Edinburgh Tram Network

SDS Progress Report -Period 13

Doc. Ref: ULE90130-SW-REP-00588 v9



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18 March 2009

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Revision History

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Distribution

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1 TOP ISSUES

- Certificates and Payment
 - Commercial
 - SDS is not receiving payment certificates and actual payments in a timely manner.
 SDS required urgent resolution to this.
- 2. Pedestrian Crossing Timings (TAL 5/05)
 - Systemwide
 - SDS received a letter from BSC via email requesting a revised estimate for another phase of modelling. SDS is currently re-estimating this item of work.
- Construction Programme
 - Systemwide
 - Early SDS visibility of the BSC construction (look ahead) programme is essential to
 ensure that the Additional Construction and Design Support resources are focusing on
 the relevant areas, and that appropriate staffing is included within the monthly
 organisational charts.
- OLE Design Requirements from Siemens
 - System Wide
 - Overlays of the Siemens OLE designs are being carried out and an alignment report is under preparation of the general arrangements only.
 - Discussions on types of building fixings to be used have resulted in Siemens giving reconsideration to their original proposals. A less intrusive design is now being prepared for Approvals and Consent consideration. This proposal is advised by PB ASAP. Each fixing location requires a detailed componentry make-up fixing proposal such that CEC may give consideration to the visual impact (and their acceptance)
 - SDS is still awaiting 2 drawings to complete the analysis requested.
- 5. Earthing & Bonding requirements for Haymarket Viaduct
 - Section 2A
 - PB is concerned that the proposals to detail the earthing & bonding requirements is to be in generic format. Each structure must be individually marked up for E&B requirement.
 - On the 19th Sep 08, PB requested a copy of the E&B Presentation given on same date. BSC to supply.
 - Haymarket Viaduct E&B workshop is urgently required week commencing 29/09/08.
 This workshop was convened and PB awaits completed detailed E&B requirement drawings urgently to ensure the E&B requirements are taken on board by Siemens for this structure.
 - Confirmation of compliance (and testing results) for the Siemens E&B requirements to the present concrete pours at Haymarket are required by PB



- 6. Revised Forth Ports Agreement, and including requirements for Bypass Road
 - Section 1A
 - Finalised Forth Ports (Revised) agreement needed.
 - CEC have raised issues with Bypass Road (Road 8) planning approval in context to the future development by others (not SDS design issue).
 - Final resolution to all Forth Ports issues necessary to compare against final design.
- 7. Mobilisation of Designers for Pavement Design on Princes Street and others
 - Sections 1C / 1D and others
 - SDS requires a 1-week notice for mobilisation of designers to site.
- 8. Mandatory Project Changes
 - Systemwide
 - Confirmation of design programme and instruction for mandatory project changes to be incorporated by SDS into the project documents.

2 COMMERCIAL

2.1 General

This report covers Period 01 March 09 to 27 March 09. The progress is detailed for the time period of 01/03/09 to 13/03/09, during which actual events occurred. There are several critical issues outstanding on the project. These are presented per the drawings in Appendix A.

2.1.1 Applications for Payment

To date SDS has issued a 4-weekly Application for Payment, as per the BSC reporting Periods. SDS has not however received timely Certificates or Payments as per the BSC reporting periods. SDS have met recently with BSC to discuss this issue and believe that BSC are working on resolution to this, in order to draw closer to reconciling the SDS account up to date. SDS is eager to work with BSC, in order to close out any queries or comments so that Certificates can be raised for outstanding works. SDS required a confirmed Payment date, for each certificate, and this needs to be honoured in future.

SDS had a tripartite meeting with BSC and tie to discuss the back log of Extended Construction and Design Support issues on 12 March 09. **tie** are due to consider the outcome of this meeting, and certify the works as appropriate.

2.1.2 Change Control

Approximately £1.2 million worth of Change Instruction has been instructed to SDS to date. This is a progression in terms of the change process, and SDS is keen to work on this success to 'unlock' other outstanding changes, and to make the process more efficient for further changes.



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There remains circa £1.6million change yet to be instructed, which has been estimated as per BSC Change Notices.

2.1.3 ATR's

During the tripartite meeting on 12/03/09, noted above, **tie** raised an issue with the approval of ATR's. SDS will continue to issue these to BSC until otherwise instructed by BSC. SDS requires response to these ATR's (ATR0063 – ATR0066) in order to progress queries and work efficiently as requested by BSC.

2.2 Summary of Changes

- Changes Identified; 164
- Change Notification Received; 104
- Change Estimates Submitted; 81
- Changes Withdrawn/Closed; 27
- Change Instructions Received; 21

SDS are outstanding a number of Change Orders for works which have been carried out historically, in good faith, at the request of BSC/tie. For example, West End Tramstop review and Shandwick Place detailed design change. These require urgent instruction and payment.

2.3 Programme

Version 42 of the SDS programme was provided to BSC at the beginning of Period 13. Next update will be at the beginning of Period 1.

3 APPROVALS

3.1 General

SDS is closing in on obtaining the final planning and technical approvals required.

From a total of 220 planning and technical approvals:

- 83% are approved (181).
- 15% are pending approval (34).
- 1% are to be submitted (3).

Current status (today) is:

89% Planning Approvals granted.

77% Technical Approvals granted.

The remaining outstanding approvals are either to be approved immanently, or have been subject to re-prioritisation and long standing changes, which has caused the original dates to slide significantly.

To get to 100%, we need to unblock/overcome key obstacles:



 Commercial - BSC to issue change orders on Murrayfield Turnstiles and accommodation Works, West Pilton tram stop and Gogarburn tram stop Prior Approvals.

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- Scottish Water consents. SW has recent resourcing issue due to illness. Appears to be resolved. SDS, in the interest of expediting the approvals, has resent information to SW and the new contact. Pressure on SW needs to remain. Formal approval letters from SW required.
- Roads Approvals Section 3 needs to be reviewed and approved by CEC. This has been de-prioritised by CEC due to tie request.

The CEC/tie/BSC/SDS Approvals Task Force continues to meet every other week and is proving to be a productive catalyst for troubleshooting any Approval issues and clearly identifying actions for the group to resolve.

Additionally, various changes being instructed as part of the approvals process will also require updates to the planning approvals. These items will be included in this report upon receipt of the formal instructions.

The Approvals Look Ahead and Approvals Trackers are emailed to BSC (Stefan Rotthaus) on a weekly basis.

3.2 Systemwide

- Scottish Water Approval/Consents. Vital that approval and consent of SDS design is obtained from Scottish Water. SW Technical Approval Engineer now visiting PB offices with view to working through drainage drawings with SDS Roads/Drainage Design Teams.
- Interfaces between SDS and BSC to formalise and complete designs for the following:
- Earthing & Bonding PB are concerned that the proposal issued in the Design Amendment Sheet for Haymarket Viaduct earthing & bonding differs from that shown in the earthing & bonding presentation from BSC on the 19th Sep 08, PB requested a copy of the presentation for comparison. BSC to supply. Information received during meetings also indicates that the earthing and bonding related to stray current may be changing from that presented in the trackwork presentation.

3.3 Section 1

3.3.1 Outstanding - Planning

Planning Approvals:

Bypass Road batch (1/02) being held by CEC due to issues with Forth Ports (not SDS design). See Top 10 Issues above.

Building Warrants:

- Lindsay Road and 33 Ocean Drive submitted and comments received. SDS responding to comments.
- Police Box Coffee Bar submitted and comments received. SDS responding to comments.



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- Cathedral Lane substation. Package submitted.
- 3.3.2 Outstanding Technical
 - 1C2, Roads with CEC.
 - 1A3 Roads in design development. Change recently received and design now being developed in accordance with the design.
 - 1A, SW Approvals. Information with SW for approval.
- 3.3.3 Subsection 1A1 Dock Gates to Foot of the Walk
 - a) Roads, Street Lighting, Landscaping, Drainage 1A1
 - IFC delayed due to TAA comments and pending changes. This delay also affects IFCs for Port of Leith TS, Bernard St TS, Foot of the Walk TS, 1A2 roads. SDS is in the process of finalising comments and updating drawings in anticipation of submitting IFC. Approximately 95% complete.
 - · Potential change due to new demarcation request by CEC.
 - b) Tram Stop Bernard Street (Ch 102+240)
 - IFC issued.
 - c) Tram Stop Foot of the Walk (Ch102+700)
 - IFC issued.
- 3.3.4 Subsection 1A2 Victoria Docks Entrance Bridge to Dock Gates
 - a) Roads, Street Lighting, Landscaping, and Drainage
 - IFC delayed due to TAA comments and pending changes. This delay also affects IFCs for Port of Leith TS, Bernard St TS, Foot of the Walk TS, 1A2 roads. SDS is in the process of finalising comments and updating drawings in anticipation of submitting IFC. Approximately 90% complete.
 - Potential change due to new demarcation request by CEC
 - b) Tram Stop Port of Leith (Ch 101+780)
 - IFC issued.
 - c) Victoria Dock Entrance Bridge S16 (Ch 101+370)
 - IFC already Issued.
 - d) Tower Place Bridge S17 (Ch101+470)
 - IFC already Issued.



3.3.5 Subsection 1A3 – Ocean Terminal to Victoria Docks Entrance Bridge

- a) Roads, Track, Street Lighting and Landscaping
 - Forth Ports Final agreement between CEC and Forth Ports on the proposed bypass road (Road 8) pending.
 - SDS has requested copy of agreement with Scottish Government and designs for the movement of the access gate to the Scottish Government complex with Forth Port has indicated is being completed.
 - Section 1A3 Batch 1/02 has received Prior Approval.
 - Batch 1/02A (Bypass Road) Planning Approvals is being held by CEC for issues relating to Forth Ports agreement. This may continue to delay Planning Approval, technical approval, Roads Construction Consent and IFC.
- b) Drainage Subsection 1A3 Ocean Terminal to Port of Leith
 - Under development with Roads design.
- c) Tram Stop Ocean Terminal (Ch 100+950)
 - Under development in accordance with approved Prior Approval and emerging roads design.

3.3.6 Subsection 1A4

- a) Roads, Track, Street Lightning and Landscaping Subsection 1A4 Newhaven to Ocean Terminal
 - Prior Approval granted for all 3 batches outlined above.
 - SDS received approval for technical design and is now addressing comments in anticipation of IFC. Approximately 70% complete.
 - New change due to new cycleway connection outside LOD requested by CEC.
 - New change due to traffic signal modification outside LOD requested by CEC.
 - New change due to CEC comment as part of the Roads approval to provide connection from high level to lower level.
 - New change due to tie request for feasibility study for new access road.
 - Potential change due to new demarcation request by CEC.
- b) Drainage Subsection 1A4 Newhaven to Ocean Terminal
 - Prior Approval granted.
 - Forth Ports have completed construction of a new substation and access drive through this area. No as-built information available. SDS has requested change (DCR0111) to cover revised design requirements (ref. letter ULE90130-01-LET-00880).
- c) Tram Stop Newhaven (Ch 100+080)
 - IFC issued.



- d) Lindsay Road Retaining Wall W1 (Ch 100+170)
 - IFC issued.
 - New change due to CEC comment as part of the Roads approval to provide connection from high level to lower level (see 3.3.6a above). CEC has previously approved this structure as part of the agreed review process (CEC structures).
- e) Substation Leith Sands SS16 (Ch 100+570
 - New change due to Forth Ports having completed construction of a new substation and access drive through this area. No as-built information available. SDS has requested change (DCR0111) to cover revised design requirements (ref. letter ULE90130-01-LET-00880).

3.3.7 Subsection 1B

- a) Roads, Track, Drainage, Street Lighting & Landscaping Subsection 1B
 - IFC Issued. Potential change due to new demarcation request by CEC. Change order required. SDS has notified BSC via letter. Delay to revised IFC including demarcation will result until change is received. Approximately 99% complete.
 - SW approved drainage via email. Formal letter required.
 - Closeout Report Issued to CEC.
- b) Tram Stop Balfour Street (Ch 110+670)
 - IFC already issued.
- c) Substation Leith Walk SS11 (Ch110+380)
 - IFC already issued.
- 3.3.8 Subsection 1C1 Section 1B to north of Annadale Street
 - a) Roads, Track, Street Lightning and Landscaping Subsection 1C1 London Road
 - IFC issued.
 - SW approved drainage via email. Formal letter required.
 - Closeout Report issued to CEC.
 - b) Tram Stop McDonald Road (Ch110+670)
 - IFC already issued.
 - Potential change due to new demarcation request by CEC.
- 3.3.9 Subsection 1C2 North of Annadale Street to Broughton Street
 - a) Roads, Track, Street Lighting and Landscaping Subsection 1C2 London Road to Picardy Place
 - TAA submittal with CEC for approval. SDS submitted supplemental information based on initial comments received from CEC via letter.



- Prior Approval granted.
- SW approved drainage via email. Formal letter required.
- Potential change due to works outside LOD on Little King Street.
- b) Substation Cathedral Lane SS12 (Ch120+400)
 - Building Warrant submitted.
 - Full planning permission granted.
- c) Tram Stop Picardy Place (Ch120+600)
 - TAA submittal with CEC for approval. Responding to initial comments from CEC on drainage concept.
 - Prior Approval granted.
- Subsection 1C3 Broughton Street to Section 1D 3.3.10
 - a) Roads, Track, Street Lighting and Landscaping Subsection 1C3 York Place
 - IFC issued.
 - SW approved drainage via email. Formal letter required.
 - Closeout report issued to CEC.
 - b) Tram Stop Princes Street (Ch121+950)
 - IFC issued.
 - c) Tram Stop St Andrews Square (Ch121+150)
 - IFC issued.
- 3.3.11 Subsection 1D
 - Roads, Track, Drainage, Street Lighting and Landscaping Subsection 1D a)
 - IFC issued.
 - SW approved drainage via email. Formal letter required.
 - Closeout Report issued to CEC.
 - There are 2 outstanding change orders for preferential work requested by CEC. Nonreceipt of these changes will delay IFC and Design Assurance.
 - Shandwick Place Tramstop relocation, street lighting and cabinet relocations (detailed design) - CEC have introduced new requirements for revisions to the design after previous works and correspondence did not indicate any of the preferential treatments now required.
 - Haymarket Taxi Stand (Section 1D) SDS have been advised informally by CEC that their Section 1D comments will contain a requirement to change the previously required bus lay-by in front of Haymarket station back to a taxi stance, similar to the existing condition. SDS notified BSC of change on 07 August 2008 (our ref ULE90130-01-LET-00751).



- b) Tram Stop Shandwick Place (Ch130+710)
 - IFC issued.

3.4 Section 2 Approvals

3.4.1 Outstanding - Planning

Building Warrants:

 Crew Relief facility at Haymarket Viaduct resubmitted including responses to comments.

3.4.2 Subsection 2A

- a) Roads, Track, Street Lighting and Landscaping Subsection 2A
 - SDS in the process of responding to CEC comments from TAA in anticipation of updated IFC submittal. Approximately 95% complete.
 - Pending changes to Section 1D will impact Section 2A Roads.
- b) Substation Russell Road SS03 (Ch 200+790)
 - IFC already issued
- c) Russell Road Bridge S20 (Ch 200+770)
 - IFC already issued
- d) Substation Haymarket SS02 (Ch 200+070
 - Prior Approval granted and Siemens now to complete the design and issue the IFC.
- e) Tram Stop Haymarket (Ch 200+070)
 - IFC already issued.
 - Pending changes to Section 1D will impact tram stop layout.
- f) Haymarket Station Viaduct S19 (Ch 200+020)
 - IFC already issued
- g) Verity House Access road retaining wall
 - IFC already issued.

3.5 Section 3 Approvals

3.5.1 Outstanding – Planning:

Approvals:

• 3/16 West Pilton Tramstop. SDS awaiting Change Order from BSC to proceed with redesign of platform boundaries as specified by CEC Planning. Once this is received,



SDS can progress amended design. This is the only issue delaying the granting of Prior Approval.

3.5.2 Outstanding - Technical:

- All 6 technical approvals that are with CEC for consideration are currently on hold due
 to the agreed prioritisation list between tie and CEC. SDS is in delay with respect to
 these items.
- Drainage information submitted to Scottish Water (SW).

3.5.3 Subsection 3A

- a) Roads, Track, Street Lighting and Landscaping Subsection 3A
 - · Prior Approval achieved.
 - Roads, Drainage and Street Lighting IFC is outstanding as TAA comments are
 outstanding. Section 3 has been de-prioritised by CEC therefore it is not know at present
 when comments are likely to be received. Letter sent to BSC 08 July 2008. tie responded
 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC.
 tie stated expected IFC submission 09 August 208, which was not achieved. The deprioritisation is apparently as tie to CEC agreement. SDS awaits approval and any
 comments.

b) Drainage

- Submittal with SW for approval.
- Section 3 has been de-prioritised by CEC therefore it is not know at present when comments are likely to be received. Letter sent to BSC 08 July 2008. tie responded 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC. tie stated expected IFC submission 09 August 208, which was not achieved. The deprioritisation is apparently as tie to CEC agreement. SDS awaits approval and any comments.
- c) Tram Stop Crewe Toll for Western General (Ch 303+010)
 - IFC already issued.
- d) Roseburn Corridor Retaining Structure H (Ch 302+600) (Ch 303+030)
 - · IFC already issued.
- e) Tram Stop Telford Road (Ch 302+604)
 - IFC already issued.
- f) Roseburn Corridor Retaining Structure G (Ch 302+300) (Ch 302+600)
 - IFC already issued.
- g) Telford Road Bridge S10 (Ch 302+220)
 - IFC already issued.



- h) Groathill Road South Bridge S09 (Ch 302+010)
 - IFC already issued.
- i) Substation Craigleith SS13 (Ch 301+960)
 - Prior Approval granted and Siemens now to complete the design and issue the IFC.
- j) Roseburn Corridor Retaining Structure F (Ch301+900) (Ch 302+300)
 - IFC already issued.
- k) Tram Stop Craigleith (Ch 301+860)
 - IFC already issued.
- l) Queensferry Road Bridge S07 (Ch 301+700)
 - IFC already issued.
- m) Holiday Inn Access Bridge S07 (Ch 301+630)
 - IFC already issued.
- n) Roseburn Corridor Retaining Structure E (Ch 301+600) (Ch 301+900)
 - IFC already issued.
- o) Craigleith Drive Bridge S06 (Ch 301+320)
 - IFC already issued.
- p) Roseburn Corridor Retaining Structure D (Ch 301+200) (Ch 301+600)
 - · IFC already issued.
- q) Ravelston Dykes Bridge S05 (Ch 300+960)
 - · IFC already issued.
- r) Roseburn Corridor Retaining Structure C (Ch 300+900) (Ch 301+200)
 - IFC already issued.
- s) Tram Stop Ravelston (Ch 300+860)
 - IFC already issued.
- t) St George's School Footbridge S04 (Ch 300+650)
 - IFC already issued.
- u) St George's School Access Bridge S03 (300+640)
 - IFC already issued.



- v) Roseburn Corridor Retaining Structure B (Ch 300+500) (Ch 300+900)
 - IFC already issued.
- w) Coltbridge Viaduct S02 (Ch 300+470)
 - IFC already issued.
- x) Tram Stop Roseburn (Ch 300+260)
 - IFC already issued.
- y) Roseburn Terrace Bridge S01 (Ch 300+210)
 - IFC already issued.
- z) Roseburn Corridor Retaining Structure A (Ch 300+200) (Ch 300+500)
 - IFC already issued.

3.5.4 Subsection 3B

- a) Roads, Track, Street Lighting and landscaping Subsection 3B
 - Roads, Drainage and Street Lighting IFC is outstanding as TAA comments are
 outstanding. Section 3 has been de-prioritised by CEC therefore it is not know at present
 when comments are likely to be received. Letter sent to BSC 08 July 2008. tie responded
 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC.
 tie stated expected IFC submission 09 August 208, which was not achieved. The deprioritisation is apparently as tie to CEC agreement. SDS awaits approval and any
 comments.
- b) Drainage Subsection 3B
 - Submittal with SW for approval.
 - Section 3 has been de-prioritised by CEC therefore it is not know at present when comments are likely to be received. Letter sent to BSC 08 July 2008. tie responded 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC. tie stated expected IFC submission 09 August 208, which was not achieved. The deprioritisation is apparently as tie to CEC agreement. SDS awaits approval and any comments.
- c) Tram Stop Caroline Park (Ch 311+310)
 - IFC already issued.



- d) Substation Granton Mains East SS14 (Ch 310+950)
 - Prior Approval granted and Siemens now to complete the design and issue the IFC.
- e) Tram Stop West Pilton (Ch 310+670)
 - Awaiting Change Instruction
- f) Crewe Road Gardens Bridge S12 (Ch 310+390)
 - IFC already issued.

3.5.5 Subsection 3C

- a) Roads, Track, Street Lighting and Landscaping Subsection 3C
 - Roads, Drainage and Street Lighting IFC is outstanding as TAA comments are
 outstanding. Section 3 has been deprioritised by CEC therefore it is not know at present
 when comments are likely to be received. Letter sent to BSC 08 July 2008. tie responded
 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC.
 tie stated expected IFC submission 09 August 2008, which was not achieved. The
 deprioritisation is as tie to CEC agreement. SDS awaits approval and any comments.
- b) Drainage Subsection 3C
 - Submittal with SW for approval.
 - Section 3 has been de-prioritised by CEC therefore it is not know at present when comments are likely to be received. Letter sent to BSC 08 July 2008. tie responded 07 August 2008 (SDS received 27 August 2008) accepting there has been delay to IFC. tie stated expected IFC submission 09 August 208, which was not achieved. The deprioritisation is apparently as tie to CEC agreement. SDS awaits approval and any comments.
- c) Tram Stop Saltire Square (Ch 320+370)
 - IFC already issued.
- d) Tram Stop Granton (Ch 321+120)
 - IFC already issued.
- e) Substation Granton Road SS15 (Ch 400+020)
 - Prior Approval granted and Siemens now to complete the design and issue the IFC.

3.6 Section 5 Approvals

3.6.1 Outstanding - Planning:

Approvals:

- 5/06 Murrayfield Stadium Tramstop is pending consideration but on hold. Change Order received and redesign commenced.
- 5/07a Murrayfield Turnstiles and Accommodation Works (Full Planning Permission).
 SDS awaiting Change Order.



5/30 - Tram Stop Gogarburn. SDS awaiting Change Order.

Building Warrants:

 112 Roseburn St-JB McLean – submitted, pending consideration. CEC have provided conflicting comments on the review of the warrant after initial acceptance of package. Issue raised with CEC and being dealt with internally to CEC.

3.6.2 Outstanding - Technical:

Balgreen Road Network Rail Access Bridge to be submitted to CEC and Network Rail.

3.6.3 Subsection 5A

- a) Roads, Track, Street Lighting and Landscaping Subsection 5A
 - SDS in the process of responding to CEC comments from TAA in anticipation of updated IFC submittal. Approximately 95% complete.
- b) Drainage Subsection 5A
 - · Submittal with SW for approval.
 - · Minor comments received and response provided to SW.
 - Formal acceptance required.
- c) Balgreen Road Tram Bridge S22 (Ch 511+400)
 - IFC already issued
- d) Balgreen Road Network Rail Access Bridge (Ch 511+410)
 - Detail design being finalised. Checking being completed and SDS awaiting a response to a recent query to NWR. Submittal to CEC and Network Rail immanent upon completion of the outstanding checks and query response.
- e) Baird Drive Retaining Wall W8 (Ch 511+190)
 - IFC already issued
- f) Water of Leith Bridge S21E (Ch 511+060)
 - IFC already issued
 - · May be altered due to Pending change re: sewer clash
- g) Murrayfield Training Pitches Retaining Wall (Ch 510+870) (Ch 511-060)
 - IFC already issued
- h) Murrayfield Stadium Underpass S21C (Ch 510+860)
 - IFC already issued



- i) Murrayfield Stadium retaining Wall S21B (Ch 510+650) (Ch 510-870)
 - IFC already issued
- j) Roseburn Street Viaduct S21A (Ch 510+580)
 - Change Order Received.
 - New TAA required.
 - New Prior Approval required.
 - · Design underway.
- k) Murrayfield Tramstop Retaining Wall W18 (Ch 510-450)
 - Change Order received.
 - SDS progressing design.
- I) Tram Stop Murrayfield (Ch 510-470)
 - · Change Order received.
 - SDS progressing design.
- m) Russell Road Retaining Wall 1 W3 (Ch 510-200)
 - · IFC already Issued.
- n) Russell Road Retaining Wall 2 W4 (Ch 510-150)
 - IFC already Issued

3.6.4 Subsection 5B

- a) Roads, Track, Drainage, Street Lighting and Landscaping Subsection 5B
 - SDS in the process of responding to CEC comments from TAA in anticipation of updated IFC submittal. Approximately 95% complete.
 - Pending change for cycleway at Edinburgh Park Station.
 - Pending change at South Gyle Access Bridge.
- b) Drainage
 - Submittal with SW for approval.
 - Minor comments received and response provided to SW.
 - Formal acceptance required.
- c) Tram Stop Edinburgh Park Central (Ch 524+530)
 - IFC already Issued



- d) Edinburgh Park Station Bridge S27 (Ch 524+010)
 - · IFC already Issued
- e) Tram Stop Edinburgh Park Station (Ch 523+740)
 - IFC already Issued
- f) Tram Stop Bankhead (Ch 522+960)
 - IFC already Issued
- g) Bankhead Drive Retaining Wall W11 (Ch 522+800)
 - IFC already Issued
- h) South Gyle Access Bridge S26 (Ch 522+750)
 - IFC already Issued
- i) Substation Bankhead Drive SS22 (Ch 522+580)
 - Prior Approval already Granted, Siemens to complete the design and issue IFC.
- j) Tram Stop Saughton (Ch 521+690)
 - IFC already Issued
- k) Carrick Knowe Underbridge S23 (Ch 521+030)
 - IFC already Issued
- l) Substation Jenners Depository (Balgreen) SS21 (Ch 520+060)
 - · Prior Approval already Granted, Siemens to complete the design and issue IFC.
- m) Tram Stop Balgreen (Ch 520+050)
 - IFC already Issued
- 3.6.5 Subsection 5C
 - a) Roads, Track, Drainage, Street Lighting and Landscaping Subsection 5C
 - SDS in the process of responding to CEC comments from TAA in anticipation of updated IFC submittal. Approximately 95% complete.
 - b) Drainage
 - Submittal with SW for approval.
 - Comments received and response provided to SW. Comments require further integration with Section 6 Drainage.
 - · Formal acceptance required.



- c) Tram stop Gogarbum (Ch 531+860)
 - On hold as instructed by tie awaiting RBS concept design
- d) Depot Access bridge S32 (Ch531+230)
 - IFC already Issued.
- e) A8 Underpass S28 (Ch 531+000)
 - IFC already Issued.
- f) Tram Stop Gyle Centre (Ch 530+770)
 - IFC already Issued.
- g) Gyle Stop Retaining Wall W19 (Ch 530+750)
 - · IFC already Issued.

3.7 Section 6 Approvals

3.7.1 Outstanding - Planning:

Warrants:

- · None. Final Warrant granted by CEC.
- 3.7.2 Outstanding Technical:
 - · Roads, Track, Drainage, Street Lighting and Landscaping with CEC for approval.
 - Information with SW for approval
- 3.7.3 Subsection 6A
 - a) Roads, Street Lighting & Landscaping Subsection 6 Depot
 - With CEC for Technical Approval. Design being updated based on initial CEC comments.
 - b) Drainage Subsection 6 Depot
 - Information with SW for approval.
 - Comments from 5C SW review require further integration with Section 6 drainage.
 - c) Depot Earthworks
 - IFC already Issued.
 - d) Depot Internal Retaining Walls
 - IFC already Issued.



- e) Depot Ductwork External Services
 - IFC already Issued.
- f) Depot General Layout
 - IFC already Issued.
- g) Depot Building Foundations
 - IFC already Issued.
- h) Depot Main Building
 - IFC already Issued.
- i) Ground Floor Slab and Pits
 - · IFC already Issued.
- j) Depot Building Steel Superstructure
 - IFC already Issued.
- k) Track Subsection 6 Depot
 - IFC already Issued.
- I) Depot Halt
 - IFC already Issued.
- m) OLE in Depot
 - · IFC already Issued.
- n) Substation Gogar Depot SS01
 - · IFC already Issued.
- 3.8 Section 7 Approvals
- 3.8.1 Outstanding Planning:

Approvals:

- None. Final Prior Approval granted by CEC.
- 3.8.2 Subsection 7A
 - a) Roads, Track, Drainage, Street Lighting and Landscaping
 - TAA comments received from CEC. SDS is currently compiling responses in anticipation of revised IFC. Approximately 95% complete.



- b) Species Mitigation Plan
 - · Issued as approved by SNH
- c) Tram Stop Edinburgh Airport (Ch 712+560)
 - · Prior Approval Granted.
 - New change for Airport Kiosk.
 - · New change for Relocation for Burnside Road.
 - · New change for Airport Canopy.
- d) Gogar Burn Retaining Wall Two W14 (Ch 712+220) (Ch 712+570) -
 - IFC already issued.
- e) Gogar Burn Retaining Wall One W14 (Ch 712+100) (Ch 712+190)
 - IFC issued.
- f) Gogarburn Culvert Three S34 (Ch712+030)
 - IFC already Issued
- g) Gogarburn Culvert Two S31 (711+830)
 - IFC already Issued
- h) Tram Stop Ingliston Park & Ride (Ch 711+740)
 - IFC issued.
- i) Substation Tram Eastfield Road (Ch 711-630)
 - Prior Approval granted. Siemens to issue IFC upon completion of their design.
- j) Gogarburn Culvert One S30 (Ch 711+420)
 - IFC already Issued
- k) Gogarburn Bridge S29 (Ch 710+400)
 - IFC already Issued



4 ISSUE FOR CONSTRUCTION PROGRESS SUMMARY

As of 13 March 2009, the Issue for Construction packages status is as follows:

From a total of 115 IFC Packages, 98 (85%) have been delivered.

The remaining packages outstanding are being finalised, and have been subject to changes and/or delays due to resolution of comments. It should be noted that several IFC drawings already submitted will require to be updated in line with the emerging changes.

5 UTILITIES

5.1 Utilities

5.1.1 Section 1A

- Section 1A (1-5) change order has been given for the conflicts to be diverted out with the LOD into ADM Milling. SDS producing IFA drawings.
- Section 1A (6-10) have been issued to the SUC's for approval and approvals being sorted.
- Section 1A (11-12) IFC drawings have been issued to tie.
- Section 1A (13-20) IFC drawings have been issued to tie.

5.1.2 Section 1B

- . IFC drawings have been issued to tie.
- The IDC has been carried out and issued to tie showing the conflicts between the
 Utilities IFC infrastructure design and the Approved infrastructure design.

5.1.3 Section 1C

- IFC drawings have been issued to tie
- 1C (Picardy Place) tie have requested that SDS compare the IFC design with the
 roads and track layout issued to CEC for approval, The IDC has been carried out and
 issued to tie showing the conflicts between the designs.
- The redesign of the Mound Gas design has been issued IFC.

5.1.4 Section 1D

- IFC drawings have been issued to tie.
- Haymarket Junction utilities redesign is complete and issued IFC.
- Awaiting SGN confirmation of preferred solution fro West Maitland St TQ.

5.1.5 Section 2A

. IFC drawings have been issued to tie



Uncontrolled when printed 18 March 2009

5.1.6 Section 5A

- IFC drawings have been issued to tie (except Scottish Water Sewers at Water of Leith)
- Water of Leith prier foundation under review to avoid existing sewer.
- Roseburn St Viaduct Change means that the utility diversions need to be reassessed in proximity to the new structure.

5.1.7 Section 5B

- IFC drawings have been issued to tie.
- All sewer design issued for IFC except at South Gyle Access, design approved by Scottish Water. SDS have been issue a DCR for redesign of the South Gyle Access Bridge and conflicting sewer and submitted an estimate for the works.

5.1.8 Section 5C

· IFC drawings have been issued to tie.

5.1.9 Section 6A

IFC drawings have been issued to tie.

5.1.10 Section 7A

- 7A was carried out under RATS, tie to supply XYZ coordinate as-builts for comparison to design and issue any required IFC's.
- 5.1.11 Section 7B (utilities only section)
 - Design being carried out by others (not SDS scope)

6 ADDITIONAL CONSTRUCTION SUPPORT

6.1 TQs

TQs received during the reporting period:

- Received: 182
- Response Issued; 161

Note TQ Register ULE90130-SW-MAT-00080 is provided to BSC on a weekly basis.

6.2 Month Ahead Org Chart and Activities

Proposed staffing for the upcoming month, based on anticipated construction activities from the BSC look-ahead programme is included as Appendix B.

Roads Construction Support Teams

· Support and attendance to section progress meetings



- Section 1B
 - a. Pavement Surveys/Conflict Reporting in an attempt to keep in front of construction works.
 - b. Supervision and consideration of road excavation for CBR testing.
- Section 1C/1D
 - a. Princes Street area only, pavement surveys in order to commence conflict reporting in attempt to keep in front of construction works.
 - b. Supervision and consideration of road excavation for CBR testing.
- Assistance with GI survey input for trackform ground improvement layer and OLE foundations
- Section 1A
 - a. Pavement surveys in order to commence conflict reporting in attempt to keep in front of construction works

Geotech Construction Support Teams

- Section 1C/1D
 - a. Assistance with GI survey input for trackform ground improvement layer and OLE foundations
- Section 6
 - a. Depot remediation works survey/design
- Section 7
 - a. Ongoing investigations and verifications of ground conditions in line with Farrans programme of works
- Section 5
 - a. Inspection of base formations and embankment profile and track slab foundations.

Civil and Structural teams

- Support and attendance to section progress meetings and general TQ responses.
- Section 1C/1D
 - a. Princes Street area only, supervision and consideration of GI survey input for trackform ground improvement layer and OLE foundations
- Section 7
 - a. Ongoing inspections of piling, bridge and culvert concrete works.



- Section 5
 - a. Ongoing inspections of piling and bridge works.

7 DESIGN AND ADDITIONAL DESIGN SUPPORT

7.1 Activities Undertaken

SDS has continued to provide as-needed Additional Design Support to BSC as required and attended several meetings related to various items. Main focus over the past 4 weeks has been around:

- Reviews of emerging BSC OLE designs
- Coordination of requirements for upcoming design for Road Rehabilitation Works
- Coordination of requirements for upcoming design for BSC Trackform integration

7.2 Ongoing Design Issues

- 7.2.1 Shandwick Place Tram Stop (DCR 0011)
 - 01 Jul 2008
 - Section 1D
 - Client Change Notice received, SDS has submitted a Change Estimate. PA has been
 delayed for Tram Stop, street lighting and cabinet relocation changes required by CEC.
 Re-design required. SDS awaits finalised Change Order from BSC. SDS has issued an
 estimate for Preliminary Design. Change Order was received 20 November 2008 for
 Preliminary Design only.
 - CEC has provided SDS their requirements for tree removal / replacement in meeting held with tie/CEC 25th September 2008, SDS design to remain unchanged.
 - SDS Updating design and Prior Approval accordingly.
 - Change Order required from BSC for full scope of works.
 - Updated Prior Approval submitted to CEC on 21 November 2008 with updated preliminary design per instruction received.
 - Additional comments received from CEC and resubmitted on 05 December. Required further change to cabinet positions from PD instruction received.
 - Prior Approval granted on 06 January 2009.
 - Estimate re-submitted with BSC format
 - SDS asked to again resubmit with revised quantum. Estimate resubmitted.
 - Detailed design change order outstanding and will further delay IFC for Roads, Street lighting and tram stop.
- 7.2.2 Airport Tram Stop and Kiosk Area (DCR0095)
 - June 08
 - Section 7A



- Ongoing coordination for Stop, retaining walls and kiosk BAA has not approved the layout or land take for the area. tie to pursue.
- SDS has received a change notice for alterations to the kiosk design which has been estimated. BSC to consider and issue Change Order to SDS.
- SDS resubmitted the Change Estimate on 4th December 2008, 9th December 2008 and 7th January 2009 with additional information as requested by BSC.
- SDS is due to attend a meeting with tie and BSC to discuss outstanding engineering issues at the Airport on 12 December 2008.
- Revised estimate submitted 03 Feb 09.
- Change Order required as a matter of urgency.

7.2.3 Ocean Terminal Area Including Bypass Road (DCR0100)

- 29 Jul 2008
- Section 1A-3
- Re-design to agreed standards of CEC and Forth Ports to be instructed by tie. Meeting
 to be held on 12th August between CEC, tie and Forth Ports to agree to standard.
 Impact on PA, TA and IFC.
- Meeting between CEC and Forth Ports 15 August. SDS yet to be briefed.
- SDS verbally noted that Forth Ports Employer's Requirements for the Bypass Road have been agreed. Client notice of Change received.
- Letter provided to BSC outlining issues for passing on to tie / CEC.
- Forth Ports / tie confirm no movement of track is desired, although change identifies 300mm shift.
- Meeting to go through TQs on 5 November 2008.
- SDS submitted estimate of Change.
- SDS received closeout for TQ. Await supplementary information to be provided (Scottish Government agreement and access gate design, Forth Ports drainage info).
- Prior Approval application submitted 12 December 2008. Comments received from CEC via email on 08 January 2009.
- Change order received.
- SDS provided updated agreement drawings for review / comment. No comments received to date.
- Finalised Forth Ports (revised) agreement required for confirmation of design.
- Confirmation of Scottish Government gate relocation required to complete design.
- CEC currently holding Planning Application due to negotiations with Forth Ports.
 Design completed to current instruction. Planning approval required to complete design. Change order required if requirements due to Planning change.
- Meeting held between tie, CEC, Forth Ports on 12 March to discuss Planning Issues.
- CEC informally issued letter to SDS regarding the requirements as outcome of the meeting. Formal receipt of letter awaited.
- SDS reviewing letter and requirements for incorporation into design.



7.2.4 Picardy Place

- 29 Jul 2008
- Section 1C-2
- Layout generally agreed with Roads Authority at coordination meeting 06th August pending confirmation of updated modelling results. CEC to advise any further TAA issues. Impact on PA, TA and IFC.
- CEC planning desire 6no. additional cross sections as advised 01-September 08 via email.
- CEC Planning have provided no feedback on plaza concept provided for informal comment
- Informal Consultation drawings issued to CEC 26th Sep '08. Meeting to finalise PA on 02 Oct '08.
- Informal meeting of tie / CEC / SDS on 30 September 2008 where CEC identified new constraints with hotel.
- Informal meeting with CEC on 1st October 2008 to discuss design development. SDS issued letter on 2 October 2008.
- Prior Approval meeting on 2 October 2008. SDS issued information to CEC via email.
- Prior Approval issued on 17 October 2008.
- Comments on Prior Approval received informally from CEC on 30 October 2008.
- Technical Approval issued on 3rd November 2008. SDS responding to initial comments from CEC on TAA submittal.
- CEC informally noted to SDS on 20 November 2008 that they may wish to change Roads layout.
- Prior Approval including CEC comments re-submitted on 28 November 2008.
- TAA including CEC comments resubmitted on 28 November 2008.
- Updated Planning drawings submitted 05 December based on advance TAA comments received.
- Road Safety Audit and Tram Stop submitted to CEC on 12 December 2009.
- Meeting on 15 January 09 with CEC to discuss potential comments and provide clarifications.
- Meeting on 21 January 2009 to discuss CEC modelling concerns. No response from CEC on information provided.

7.2.5 West Pilton Tram Stop (DCR0105)

- 30 Jul 2008
- Section 3B
- SDS has issued a Change Request to BSC and awaits further instruction.
- BSC to provide a change notice to SDS to request an estimate for works.
- Change notice received. SDS developing change estimate.
- SDS requested to provide revised estimate and additional justification as to the reason for change.



7.2.6 Section 1D/2A Haymarket Taxi and Bus Provision (DCR0075)

- 13 Aug 2008
- Section 1D/2A
- CEC Advised of a new configuration required at the Haymarket junction and Terrace.
 SDS will review comments and advise on changes to design and approvals. Re-design required. Will affect sub-section IFCs.
- SDS reviewing and responding to CEC comments on Section 1D.
- Change Estimate submitted for Works. IFC delayed until change order received.
- · Change estimate resubmitted 09 Feb 09.
- Based on BSC review, SDS requested to review quantum and resubmit.
- · Change estimate resubmitted. Change Order required as a matter of priority.

7.2.7 New Ingliston Limited (NIL) (DCR0134)

- 04 Sept 2008
- Section 7A
- SDS awaits information from NIL's designer, Faber Maunsell, prior to being able to complete the Change Scope.
- SDS progressing design solution as possible.
- tie took action on Tuesday 29th November 08 meeting to instruct change in design to Gogar Mains Farm Access and to chase NIL for inputs to enable design to develop. tie have since met with NIL.
- SDS received change notice with increased scope of work.
- SDS submitted supplemental estimate based on new scope of work w/e 27 Feb 09.
- tie requested meeting to discuss current status. SDS to organise.

7.2.8 New Technical Approval – 5B Roads (DCR0092)

- 11 Sept 2008
- Section 5B
- Change of cycle route requested at Edinburgh Park Station Interchange. Notification of Change issued by SDS to BSC. BSC to instruct Change and request estimate.
- SDS issued drawing to BSC / tie for cycling concept.
- Change notice received. SDS preparing change estimate.

7.2.9 CEC preference for Demarcation between Tramway and Roadway (DCR0136)

- 09 Sept 2008
- Section 1
- CEC design comment unresolved as CEC need to determine preferred method of demarcation. Cost implications being discussed between tie and CEC. SDS awaiting resolution. Action with tie / CEC.



- SDS / BSC attended meeting on 11 November 2008 at the request of tie to discuss potential options proposed by tie / CEC.
- Samples placed by tie in Haymarket Car Park 14 November 2008.
- Draft letter received from CEC noting acceptance of imprinted concrete and desire to change concept at various locations.
- CEC note this as open issue in Section 1B, affecting closeout.
- SDS received letter directly from CEC outlining changed requirements.
- No further action to be taken by SDS until instructed with requirements.
- SDS submitted letter to BSC on 22 January 2009. SDS requested to revise estimate.
- Change Notice received.
- SDS submitted change estimate w/e 27 Feb 09.
- SDS awaits completed report from PRIMSO before completing safety assessment. tie to provide.

7.2.10 Transdev comments on 5C Technical Approval – Roads (DCR0102)

- 17 Sept 2008
- Section 5C
- Transdev have written a paper on the design at Edinburgh Park. SDS has notified BSC of Change and will review paper when instructed.
- SDS received response to letter from BSC. SDS has returned response confirming position that change is required.
- Change Notice received. SDS submitted estimate w/e 27 Feb 09. SDS requested to provide revised estimate.

7.2.11 TRO Drawings (DCR0083, DCR0110, DCR0119)

- 17 Oct 2008
- Section 1
- tie (Keith Rimmer) informally handed SDS marked up drawings catching fundamental changes to kerb lines for drawings already approved by CEC and in some instances, Issued For Construction to BSC. Change Order required.
- These drawings must be formally submitted to SDS under cover of **tie** letter for audit trail and QA / QC procedures.
- Discussion is required prior to execution of design work with the priority of Section 1B
 as changes to the Technical Drawings (i.e. gullies / kerbs etc) will need to be
 immediately instructed to BSC as construction work is already ongoing.
- Additional work outside the LOD arising from drawing mark-ups.
- Informal meeting with CEC on 14 November 2008 to discuss the mark-ups.
- SDS provided updated responses to Public Exhibition comments on 08 January 2009.
- SDS prepared scope and estimate for Changes (DCR0110)
- **tie** / CEC request final drawings for public deposit to be provided before Christmas. CEC have indicated that they have not yet reviewed sections 2-7. CEC indicate that



- they wish TAL 5/05 to be modelled. SDS yet to be instructed to use TAL 5/05, and have previously advised of potential issues which may arise.
- SDS advised tie via email on 08 January 2009 about issues arising from TAL5/05 and need for change order to SDS.
- BSC requested a meeting for discussion of TRO changes. BSC to advise.
- Change notices received, SDS submitted estimates w/e 27/02/09.(DCR0083, DCR0119)

7.2.12 Operator Comments

- 21 Oct 2008
- System-wide
- At the Design Assurance Presentation, SDS and BSC were informed that Transdev are currently undertaking Operator reviews of the Design. Any changes arising out of this must be instructed via the Change Control procedure.
- 2A Operational Review was on Thursday 30th October 2008. BSC could not attend.
- 6A Operational Review was on Wednesday 29 October 2008. BSC in attendance (Colin Brady).
- There is an ATR outstanding for attendance at these meetings and any future meetings.
- Letter from BSC received on 02 March 09. SDS to formally respond indicating that no revisions to be made unless formally instructed.
- SDS provided response letter to BSC on 09 March 09 (our ref ULE90130-SW-LET-01442)

7.2.13 Noise and Vibration TQ / RFI to BSC

- 04 Nov 2008
- System-wide
- SDS sent an urgent TQ to BSC on 17 September 2008 on the subject of Tram noise criteria and issued a reminder to BSC on 4 November 2008 and again on 11 November 2008.
- · Response still required from CAF/ BSC.

7.2.14 Wider Area Cycling Study

- 12 Nov 2008
- System wide
- tie (Keith Rimmer) informally notified SDS that inputs / assistance for a wider area
 cycling strategy are desired. ATR requested 12 November 08. SDS awaiting response
 before any work will take place.
- tie (G. Murray) requested information via email 24 Feb 09 on signing details. SDS responded for queries within LOD. SDS requested to tie via email on 26 Feb 09 (S. Ney to G. Murray) that any requirements be moved through BSC moving forward.



7.2.15 West End Tramstop Review (DCR 0105)

- 20 Nov 2008
- Section 1D
- As per CEC brief, SDS prepared and submitted comprehensive study report of alternatives requested.
- SDS attended 2 meetings (pre-report scoping, post-report briefing) to support the process.
- Additional work / meeting attendances requested by CEC.
- tie verbally instructed SDS to proceed with work.
- SDS submitted updates paper on 26 November 2008.
- SDS requires full Variation Order. Estimate and Scope of Work submitted to BSC. SDS submitted additional information to BSC on 7th January 2009.
- Change Order required as a matter of urgency.

7.2.16 Airport Kiosk Canopy (DCR0146)

- 26 November 2008
- Section 7A
- tie advised SDS that they would be instructing SDS to design, and BSC to procure and install a canopy over the kiosk at the Airport. Change Notice to be issued ASAP including details of BAA CCRC Scheme.
- Change notice received. SDS submitted estimate w/e 27/02/09.

7.2.17 Cathedral Lane Substation (DCR0143)

- Section 1C
- SDS requested by BSC to HOLD submittal of Building Warrant for Approval.
- Formal confirmation from BSC required. Letter sent 23 Feb 09.
- SDS requested by BSC on 05 March 09 via email to progress with application.
- Application submitted 06 March 09.
- Formal response letter to BSC provided 06 March 09.

7.2.18 Cycle Connection at Hawthornevale (DCR0141)

- Section 1A
- CEC requested new cycleway connection outside LOD. Change order required.
- Change estimate submitted w/e 27 Feb 09.

7.2.19 Traffic Signal Upgrade – Western Harbour Access (DCR0147)

- Section 1A
- CEC requested works to pedestrian crossing outside LOD / Section 1 as part of comments. Change order required.



Change estimate submitted w/e 27 Feb 09.

7.2.20 New access from Lindsay Road (DCR0142)

- Section 1A
- CEC requested additional access from high level at Lindsay Road to Mill Road, not previously included in Forth Ports agreement or commented at CEC Structures Approval. Change order required.
- SDS asked to provide further justification as to reason for change. SDS to provide.

7.2.21 Drainage Outfall at Airport

- Section 7A
- SDS requires clarification from BSC / tie on the preferred outfall method as per negotiations with BAA.
- Design cannot be completed until preferred option is instructed to SDS.
- tie have indicated that response has been provided to BSC.

7.3 Additional Resources

The Design Team Leaders detailed below can be made available to respond to TQ's and attend the appropriate meeting (subject to suitable notice) on the proviso that BSC give instruction that these DTL's time spent will be paid for.

DISCIPLINE	Code	DTL (and contact details)
Tram	TRM	Tony Goodyear
Track (and Alignment)	TRK	Chris Cox
Track Auxiliaries	TRA	Mike Reeves
Roads	RDS	Liam Soffe and Peter Finnegan
Structures (P)	STR-P	Andy Groves
Structures (H)	STR-H	Colin Walker
Traction Power Supply	TPS	Graeme Evans
Sub Stations	SUB	lan Brown
Depot	DEP	Ian Brown
Tram Stops	STP	lan Brown
Overhead Line Equipment	OLE	Farhad Janani
Supervisory, Control and Comms	SCC	Mike Goldsworthy
Low Voltage Supplies	LVS	lan Brown
Street Lighting	STL	Anthony Walsh
Drainage	DRN	Liam Soffe
Ducting	DUC	Chris Reid
Geotechnical	GEO	David Raeside
Environment	ENV	Kat Dennis
Utilities (L2 - Sections 2, 5, 6 and 7)	UTL	Alan Dolan Nigel Baldwin and A Woodhouse
Utilities (L1 - Sections 1 and 3)	UTL	Brian McCrear
Landscape	LSC	lan Brown
IT		Thomas Lehm



APPENDICES



APPENDIX A - CRITICAL ISSUES DRAWINGS

Doc Ref ULE90130-SW-DRG-00651 (Line 1)

Doc Ref ULE90130-SW-DRG-00652 (Line 2)



SECTION 4 (NOT IN SCOPE)

LOWER

GRANTON

SUB-SECTION 4B

NEWHAVEN HARBOUR

NEWHAVEN

TRAM NORTH LEITH SANDS

SUB-SECTION 4A

SECTION 1

OCEAN TERMINAL

0

SECTION 3

SALTIRE

SQUARE

CAROLINE

SUB-SECTION 3C

GRANTON

TRAM GRANTON VIEW SUBSTATION IGVE) NOTES

KEY

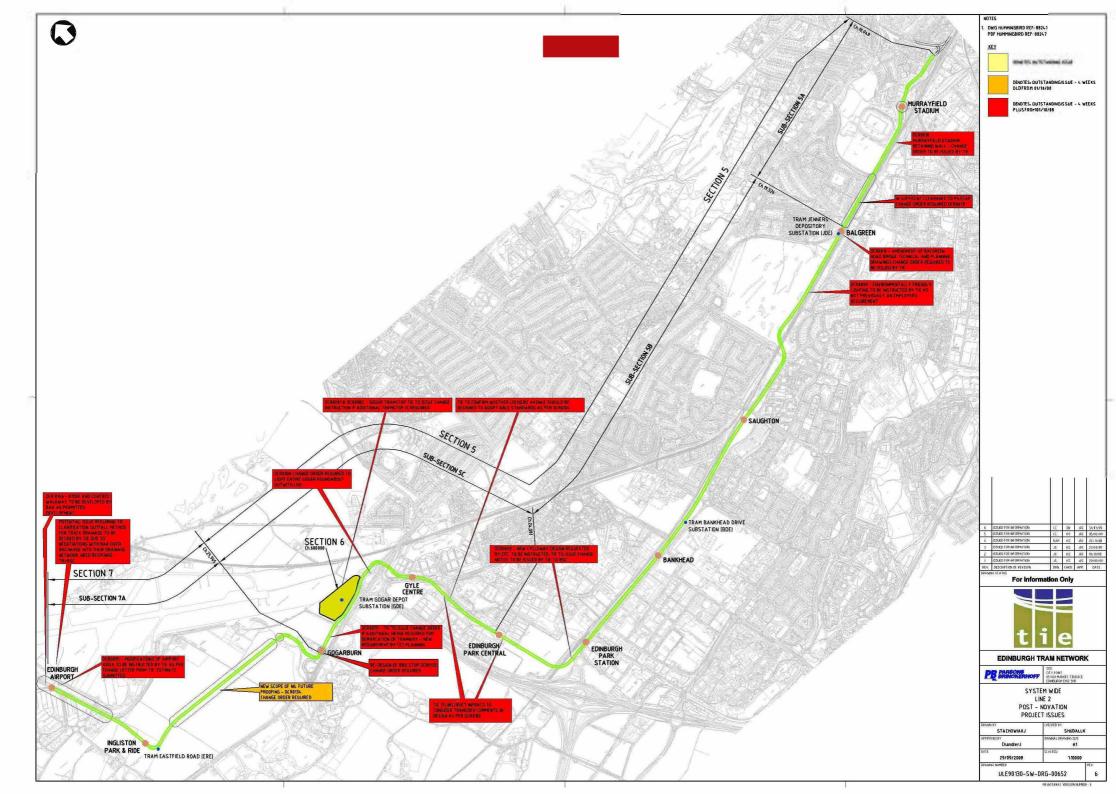
CEC TRANSPORT REDUEST FOR RELOCATION OF OLE POLES TO BE INSTRUCTED BY THE AS PER DERPINE.

SUB-SECTION 1A

PORT OF LEITH DWG HUMMINGBIRD REF. 88229 PDF HUMMINGBIRD REF. 88239

DENOTES DUTSTANDINGISSUE

DENDTES DUTSTANDINGISSUE - 4 WEEKS OLD FROMINI/10/08 DENDTES DUTSTANDING ISSUE - 4 WEEKS PLUSFROM 01/10/08



APPENDIX B – ADDITIONAL DESIGN AND CONSTRUCTION SUPPORT ORGANISATIONAL CHARTS (PERIOD 1 FORECAST)





Design Support Services - For The Period 01/04/09 to 01/05/09

