# PRIVILEGED IN CONFIDENCE FOI(S)A EXEMPT

#### MINUTE OF VARIATION TO THE INFRACO CONTRACT

among

(1) tie LIMITED

and

(2) BILFINGER BERGER CIVIL UK LIMITED

and

(3) SIEMENS plc

and

(4) CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES S.A.

in respect of the PRIORITISED WORKS on the EDINBURGH TRAM NETWORK

#### MINUTE OF VARIATION

#### among

- (1) **tie LIMITED** (company number SC230949), whose registered office is at City Chambers, High Street, Edinburgh, Midlothian, EH1 1YJ ("**tie**") which expression shall include its personal representatives, successors, permitted assignees and transferees;
- (2) **BILFINGER BERGER CIVIL UK LIMITED**, a company incorporated in England and Wales under number 02418086 and having its registered office at 3<sup>rd</sup> Floor Braywick Gate, Braywick Road, Maidenhead, Berkshire SL6 1DA ("**BBUK**") which expression shall include its personal representatives, successors, permitted assignees and transferees;
- (3) SIEMENS PLC, a company incorporated in England and Wales under number 00727817 and having its registered office at Faraday House, Sir William Siemens Square, Frimley, Camberley, Surrey, GU16 8QD ("Siemens") which expression shall includes its personal representatives, successors, permitted assignees and transferees; and
- (4) CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES S.A., a company registered in Spain and having its registered office at J. M. Iturrioz 26, 20200 Beasain, Spain ("CAF") which expression shall include its personal representatives, successors, permitted assignees and transferees,
  - (2), (3) and (4) together the "Infraco".

#### **BACKGROUND**

- A tie and Infraco (at that time comprising BBUK and Siemens) entered into a contract on 14 May 2008 under which Infraco was appointed to carry out and manage the design, construction, installation, commissioning, tram procurement, system integration, infrastructure maintenance, tram maintenance and supply of related equipment and materials, trams and related infrastructure in respect of the Edinburgh Tram Network (such contract, amended as detailed below, is herein after referred to as the "Infraco Contract");
- By an agreement in writing dated 13 May 2008 ("Tram Supply Agreement") tie appointed CAF to design, manufacture and supply 27 Trams and to supply documentation and associated equipment in connection with the Edinburgh Tram Network;
- C By a Minute of Variation in writing dated 14 May 2008 ("MoV1"), tie, BBUK, Siemens and CAF agreed that CAF would become a party to the Infraco Contract;
- D By an agreement in writing dated 14 May 2008 ("Novation of Tram Supply Agreement") tie and Infraco agreed, with the consent of CAF as the Tram Supplier, that Infraco would take over the rights and liabilities of tie as the "Client" (as defined in the Tram Supply Agreement) under the Tram Supply Agreement;
- E The Infraco Contract was amended by the Princes Street Supplemental Agreement entered into between the Parties in March 2009 and re-executed on 29 May 2009, a Minute of Variation between the Parties dated 3 June 2009 ("MoV2") and a Minute of Variation between the Parties dated 23 April 2010 ("MoV3"); and
- F Following a mediation between the Parties which took place at Mar Hall between 8 and 12 March 2011, tie and Infraco have agreed to vary the Infraco Contract to the extent specifically set out in this Minute of Variation ("MoV4") to give effect to the Prioritised Works.

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#### 1 DEFINITIONS AND INTERPRETATION

- 1.1 The definitions given in the recitals to this Minute of Variation apply to this Minute of Variation.
- 1.2 In the context of this Minute of Variation where the Infraco Contract has defined a meaning to any capitalised word or expression used in this Minute of Variation, the same meaning shall be given to it in this Minute of Variation, except as follows:
  - "Auxiliary Works" means those of the Prioritised Works identified as such in Schedule Part 2 (Scope and Pricing of Prioritised Works);
  - "Certificate 1 First Materials and Equipment and First Payment" means the certificate issued by the Certifier in accordance with Clause 6 (Certificate 1 First Materials and Equipment and First Payment);
  - "Certificate 2 Second Payment" means the certificate to be issued by the Certifier in accordance with Clause 7 (Certificate 2 Second Payment);
  - "Certificate 3 (A, B and C) Second Materials and Equipment" means the certificates to be issued by the Certifier in accordance with Clause 8 (Certificate 3 (A, B & C) Second Materials and Equipment);
  - "Certifier" means Hg Consulting, Chartered Surveyors, 20 Lynedoch Crescent, Glasgow, G3 6EQ:
  - "Certifier Agreement" means the agreement between the Certifier, CEC, tie and Infraco for the certification of completion of the Prioritised Works and amounts payable under this Minute of Variation to be entered into on or about the date of execution of this Minute of Variation;
  - "Change" means, in relation to the Prioritised Works, a tie Change or a Mandatory tie Change as the case may be;
  - "Change Procedure" means the change procedure set out in Schedule Part 7 (Change Procedure);
  - "Fixed Sum Prioritised Works" means those of the Prioritised Works identified as such in Schedule Part 2 (Scope and Pricing of Prioritised Works);
  - "Fixed Sum Prioritised Works Milestone" means each of the milestones for payment for the Fixed Sum Prioritised Works as set out in Schedule Part 2 (Scope and Pricing of Prioritised Works);
  - "Fixed Sum Prioritised Works Price" means the price for carrying out the Fixed Sum Prioritised Works as set out in Schedule Part 2 (*Scope and Pricing of Prioritised Works*) up to the 17 September 2011 and does not represent the total value / price of the Prioritised Works beyond this date;
  - "Governance Structure" means the structure set out in Schedule Part 8 (Governance Structure);
  - "Heads of Terms" means the heads of terms signed by tie, CEC, BBUK and Siemens in Glasgow on Saturday 12 March 2011;
  - "Interdisciplinary Design Check Procedure" means the procedure set out at Schedule Part 9 (Interdisciplinary Design Check Procedure);

"Materials and Equipment" means the materials and equipment to be provided by Siemens including but not limited to the materials and equipment listed in Schedule Part 3 but excluding Trams and Tram Related Equipment (Materials and Equipment):

"Minute of Variation 5" or "MoV5" means the Minute of Variation to be entered into between tie, BBUK, Siemens and CAF varying the Infraco Contract in respect of the Off-Street Works and On-Street Works as per the Heads of Terms on or before 1 July 2011;

"Off-Street Works" means that part of the Infraco Works from the Airport to Haymarket (chainage 712,579.5 to 200,000), including the enabling works to be performed at Lindsay Road Retaining Wall (at outbound chainages W1A 100,168 to 100,404; W1B 100,225 to 100,266, W1C 100,387 to 100,412 and W1D 100,467 to 100,478), Lindsay Road lowering (outbound chainage 100,230 to 100,560 and Lindsay Road LOD at east end) and the civil works at Tower Place Bridge (outbound chainage 101,430 to inbound chainage 101,517) including rail installation;

"On-Street Works" means that part of the Infraco Works from Haymarket to York Place (chainage 200,000 to 120,650), other than in respect of any Utilities diversion works;

"Outstanding Consents" means any of the Consents referred to Schedule Part 5 in relation to Prioritised Works, which are still to be obtained as at the date of execution of this Minute of Variation;

"Preliminaries" means the preliminary milestones forming part of the Fixed Sum Prioritised Works Milestones as set out in Schedule Part 2 (Scope and Pricing of Prioritised Works);

"Prioritised Works" means that part of the Infraco Works comprising the Depot (excluding any works to the east of the Depot Access Bridge as shown on drawing ULE90130-06-DEP-00016 Rev6), Depot Access Bridge and Depot Access Road, mini test track, Haymarket Yards, A8 Underpass, Princes Street Remedial Works, the Auxiliary Works and any other works agreed by the Parties to comprise the Prioritised Works as more particularly described in the Scope. The Prioritised Works shall comprise part of the Off-Street Works and part of the On-Street Works;

"Prioritised Works Commencement Date" means the later of:

- (i) 3 May 2011; and
- (ii) the date on which all of the following events have occurred:
- (a) Infraco receives the amount payable pursuant to Clause 6 (Certificate 1 First Materials and Equipment and First Mobilisation);
- (b) the Certifier has issued the certificate (Second Mobilisation Payment) to tie and Infraco pursuant to Clause 7; and
- (c) the Outstanding Consents required to start the Prioritised Works have been issued by tie or provided by the relevant Approval Body;

"Prioritised Works Estimate" means the estimate to be provided by Infraco in response to a tie Notice of Change detailing the time and cost implications of compliance with the proposed Change;

"Prioritised Works Programme" means the programme for the Prioritised Works set out in Schedule Part 1 (*Programme of Prioritised Works*) as updated by agreement between the Parties from time to time;

"Relevant Date" means either (i) 2 July 2011 in the event that MoV5 has not been entered into for reasons other than insufficient tie and/or CEC funding; or (ii) 1 September 2011 if

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MoV5 has been entered into or MoV5 has not been entered into because of insufficient tie and/or CEC funding, as the case may be;

"Schedule" means the Schedule in 10 Parts annexed to this Minute of Variation;

"Scope" means the scope of the Prioritised Works set out in Schedule Part 2 (Scope and Pricing of Prioritised Works) identified by means of narrative, specific drawing and chainage numbers;

"Target Price" means the sum to be agreed amongst tie, BBUK and Siemens for the On-Street Works:

"Target Price Prioritised Works Milestone" means each of the milestones for payment for the Target Price Prioritised Works as set out in Schedule Part 2 (Scope and Pricing of Prioritised Works);

"Target Price Prioritised Works Price" means the price for carrying out the Target Price Prioritised Works as set out in Schedule Part 2 (Scope and Pricing of Prioritised Works);

"Target Price Prioritised Works" means those of the Prioritised Works identified as such in Schedule Part 2 (Scope and Pricing of Prioritised Works);

"Total Price" has the meaning given in the Heads of Terms;

"Valuation Certificate" has the meaning given in Clause 9 (Payment for the Prioritised Works);

"Valuation Dates" means the dates identified for "Due Certified" set out in Schedule Part 2 (Scope and Pricing of Prioritised Works), and Valuation Date shall be construed accordingly; and

"Vesting Certificate" means a vesting certificate in the form set out at Schedule Part 6 (Vesting Certificate).

- 1.3 Clause headings in this Minute of Variation are for the convenience of the Parties only and do not affect its interpretation.
- 1.4 Unless the context otherwise requires:
- 1.4.1 words importing gender include masculine, feminine and neuter;
- 1.4.2 the singular includes the plural, and vice versa; and
- 1.4.3 a reference to any Clause, Sub-Clause or Schedule is, except where it is expressly stated to the contrary, a reference to such clause, sub-clause or schedule to this Minute of Variation and reference in any Schedule to any Part, Paragraph or Sub-Paragraph is, except where it is expressly stated to the contrary, a reference to such part, paragraph or sub-paragraph of that Schedule (as the case may be);

#### 2 AMENDMENT OF THE INFRACO CONTRACT

- 2.1 The Parties hereby agree that the Infraco Contract is amended in accordance with the terms of and as required to implement this Minute of Variation.
- 2.2 The terms and conditions of this Minute of Variation, together with the Schedule, represent the entire agreement between the Parties relating to this variation of the Infraco Contract. Save as amended or dis-applied by this Minute of Variation, all the terms and conditions of the Infraco Contract remain in full force and effect.

#### 3 APPLICATION OF THE INFRACO CONTRACT TO THE PRIORITISED WORKS

- 3.1 From the Prioritised Works Commencement Date the Prioritised Works will be carried out in accordance with the Infraco Contract as amended by the application of this Minute of Variation.
- 3.2 From the Prioritised Works Commencement Date until the Relevant Date unless the Parties agree otherwise Infraco shall not carry out any Infraco Works other than the Prioritised Works, the Tram Supply Obligations and, to the extent applicable, the Tram Maintenance Services. tie's obligations to make payment to Infraco and Infraco's rights and obligations in respect of the Tram Supply Obligations and, to the extent applicable, the Tram Maintenance Services shall remain unchanged by this Minute of Variation.
- 3.3 If on or before 1 July 2011 the Parties have not entered into an MoV5 on an unconditional basis or on a conditional basis in either case because tie and / or CEC do not have sufficient funding to meet tie's obligations under the Infraco Contract:-
- 3.3.1 Infraco shall, subject to Clause 3.3.2, continue to carry out the Prioritised Works between 2 July 2011 and 1 September 2011, and inter alia the provisions of Clause 9 of this Minute of Variation shall continue to apply and Infraco shall not be required to carry out the Infraco Works (other than the Prioritised Works);
- 3.3.2 Infraco shall not carry out the Princes Street Remedial Works forming part of the Prioritised Works unless on or before 2 July 2011 tie has confirmed in writing to Infraco that it should do so. In the event that such written confirmation is not given by tie, the Parties shall as soon as reasonably practicable following 2 July 2011 agree (each Party being obliged to act reasonably) a revised approach to the carrying out of the Princes Street Remedial Works by Infraco, it being acknowledged by the Parties that such revised approach is to have the effect of reducing the disruption to the use of Princes Street by third parties;
- 3.3.3 the Infraco Contract shall automatically terminate at 5pm on 1 September 2011 and the Parties shall have no rights or obligations in respect of the future performance of the Infraco Works save as provided in Clause 94.6 of the Infraco Contract;
- 3.3.4 the Parties shall enter into discussions with a view to arriving at mutually acceptable terms to deal with the consequences of termination pursuant to Clause 3.3.3; and
- notwithstanding the terms of any agreement or otherwise pursuant to Clause 3.3.4 tie shall make the payments to Infraco in accordance with Clauses 8.2 and 8.3, and Clause 3.3.4
- save as agreed between the Parties pursuant to Clause 3.3.4 or as set out in Clause 3.3.5, in the event of termination pursuant to this Clause 3.3 the Parties confirm that such termination shall occur on a no fault basis and, no compensation shall be payable by either Party whether under contract, delict (including negligence), breach of (or compliance with) statutory duty, restitution or otherwise as a result of such termination of the Infraco Contract.
- 3.4 If the Parties have not entered into MoV5 on or before 1 July 2011 for any reasons other than those set out in Clause 3.3:
- 3.4.1 Infraco shall not be obliged to perform the Prioritised Works in accordance with Clause 3.1 beyond 1 July 2011;
- 3.4.2 the Infraco Works (as varied by this Minute of Variation) shall recommence on 2 July 2011; and
- 3.4.3 tie shall make the payments to Infraco in accordance with Clauses 8.2 and 8.3.
- Infraco shall from the date of this Minute of Variation self certify that the civils and systems and trackwork Design is in accordance with the Employer's Requirements.

#### 335 at the end add "and Clause 3.3.6"

Insert a new Clause 3.3.6 as follows:-

"without prejudice to Clause 3.3.4 and unless otherwise agreed, on the date of termination:-

- (i) tie, whom failing CEC, shall acquire the Trams, the Tram Related Equipment and the Depot Equipment (as defined in the TSA) specified or comprising part of the Tram Supply Obligations;
- (ii) CAF shall deliver the Trams, the Trams Related Equipment and the Depot Equipment (as defined in the TSA) specified or comprising part of the Tram Supply Obligations to tie or CEC as directed; and
- (iii) tie, whom failing CEC, shall pay to CAF (i) all milestone payments set out in Schedule 5 to the TSA that remain unpaid ("the Unpaid Sums") notwithstanding that the milestones to allow application for payment of such milestone payments have not occurred less (ii) the Certified Deduction. In the event that the Unpaid Sums less the Certified Deduction results in a negative figure then such sum shall be payable by CAF to tie, whom failing CEC."

"Certified Deduction" means such sum as the Certifier certifies under the Certifier Agreement should be deducted from the Unpaid Sums to reflect the difference in value attributable to what CAF have delivered under Clause 3.3.6 and what CAF would have been obliged to deliver had the Infraco Contract not been terminated."

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"provided that nothing in this Clause 3.3.6 shall operate to vary or amend the terms of the Tram Supply Agreement or act as an admission by BBCUK or Siemens of any liability to CAF under the Tram Supply Agreement, Infraco Contract or consortium agreement."

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- 3.6 Infraco shall comply with the Interdisciplinary Design Check Procedure. Nothing in this procedure shall affect the legal and statutory obligations of each of CEC and tie.
- 3.7 tie shall have no right or obligation to review and/or approve the civils and systems and trackwork Design and the Infraco shall be relieved of its obligations under Clause 10 and Schedule Part 14 of the Infraco Contract in so far as they relate to the civils and systems and trackwork Design, provided that nothing in this clause 3.7 shall operate to prevent tie from being able properly to discharge its obligations under ROGS.
- Infraco shall not be required to obtain any further Permits to Work for any of the Prioritised Works subject to providing tie with such information as is reasonably required to allow tie to comply with the notification and third party requirements (as necessary) for which it is responsible.

## 4 SOLE ENTITLEMENT OF INFRACO TO PAYMENT, EXTENSIONS OF TIME OR OTHER RELIEF

- 4.1 Notwithstanding the terms of the Infraco Contract, the Parties have agreed that the Infraco's sole entitlement to payment and extension of time in relation to Planned Sectional Completion Date A or other relief in respect of
  - (i) the Materials and Equipment, Prioritised Works (including the Preliminaries) and matters covered by Certificates 1, 2 and 3 (A, B and C), and
  - (ii) the impact of the Materials and Equipment and Prioritised Works on the Infraco Works

shall be as set out in this Minute of Variation.

- 4.2 Notwithstanding the terms of clause 4.1:-
- 4.2.1 all entitlements of the Parties arising prior to and after the conclusion of this Minute of Variation (including, without prejudice to the foregoing generality, entitlements to payment, extension of time and relief) in respect of the Tram Supply Obligations and the Tram Maintenance Services shall be determined as though this Minute of Variation had not been concluded; and
- 4.2.2 nothing in this Minute of Variation shall operate to exclude, restrict or prejudice all and any claims of the Parties arising prior to and after this Minute of Variation under the terms of the Infraco Contract in respect of the Tram Supply Obligations and the Tram Maintenance Services, determined as though this Minute of Variation had not been concluded.

#### 5 **AMENDMENT TO THE PROGRAMME**

- 5.1 The Parties have agreed that from the Prioritised Works Commencement Date:
- 5.1.1 the Prioritised Works shall be carried out in accordance with the Prioritised Works Programme;
- 5.1.2 the Planned Sectional Completion Date Section A shall be amended to 16 December 2011; and
- 5.1.3 the definition of Section A in Schedule Part 1 of the Infraco Contract shall be deleted and replaced with:

"means the completion of the Depot (including energisation) excluding the area east of the Depot Access Bridge as shown on drawing ULE90130-06-DEP-00016 Rev6 overmarked and included in Schedule Part 2"

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- 5.2 Any embargo on working as provided for in Schedule Part 3 (*Code of Construction Practice*) of the Infraco Contract shall not apply to the carrying out of the Prioritised Works to the extent it would be inconsistent with the Prioritised Works Programme.
- 5.3 Notwithstanding the terms of this Clause 5, Infraco shall not be required to commence any part and/or parts of the Prioritised Works in accordance with the Prioritised Works Programme until tie has provided or procured any Outstanding Consents required and/or possession and/or access to all work areas reasonably required to allow Infraco to commence and/or proceed with any such part and/or parts of the Prioritised Works in accordance with the Prioritised Works Programme.
- The Prioritised Works Programme and the activity durations therein shall be updated and extended by a day in respect of each day in which tie fails to procure any Outstanding Consents required and/or possession and/or access to work areas by the date on which such Prioritised Works are scheduled to commence and/or proceed in accordance with the Prioritised Works Programme.
- 5.5 The Prioritised Works Programme will be updated to reflect any Change in accordance with Clause 10 and Schedule Part 7 (Change Procedure).

#### 6 CERTIFICATE 1 - FIRST MATERIALS AND EQUIPMENT AND FIRST PAYMENT

- On 15 April 2011 the Certifier issued a certificate (Certificate 1 First Materials and Equipment and First Payment Certificate) to Infraco and tie, certifying payment of the agreed sum of £27,000,000 (payable as £7,500,000 to BBUK and £19,500,000 to Siemens. Such payments shall be made by tie on 22 April 2011 and transfer of ownership in and unencumbered title to such Materials and Equipment by Siemens to CEC shall be made on the date of receipt of payment by Siemens.
- The Parties acknowledge that not all of the Materials and Equipment may be required as part of the Infraco Works. tie/CEC shall make the Materials and Equipment, or any part thereof, transferred or vested in CEC pursuant to this Clause 6 or Clause 8 available to Infraco to incorporate as part of the Prioritised Works as required pursuant to the Infraco Contract. Siemens warrants that the Materials and Equipment meet the Employer's Requirements on the date such Materials and Equipment are vested in CEC.
- 6.3 The Parties acknowledge that tie/CEC has the right to carry out an inspection at reasonable times on Site in respect of all the Materials and Equipment to be transferred to or vested in CEC pursuant to this Clause 6 or Clause 8.

#### 7 CERTIFICATE 2 - SECOND PAYMENT

By 3 May 2011 tie, BBUK and Siemens shall request that the Certifier shall issue a certificate in accordance with the Certifier Agreement (Certificate 2 – Second Payment Certificate) to Infraco and tie, certifying payment of the agreed sum of £9,000,000 (payable as £5,000,000 to BBUK and £4,000,000 to Siemens) and payment shall be made by tie to Infraco of the amount certified on 17 May 2011.

#### 8 CERTIFICATE 3 (A, B and C) - SECOND MATERIALS AND EQUIPMENT

8.1 On 15 June 2011 tie, BBUK and Siemens shall request that the Certifier issues a certificate in accordance with the Certifier Agreement (Certificate 3A – Second Materials and Equipment) to Infraco and tie, certifying payment of the agreed sum of £4,334,000 (payable as £4,334,000 to Siemens) in respect of an agreed second payment to Siemens in respect of the transfer to CEC of ownership in and unencumbered title to such Materials and Equipment identified in the relevant Vesting Certificate. Such payment and transfer shall be made by tie and Infraco respectively on the later of (i) 29 June 2011, and (ii) the date of receipt by CEC of the relevant Vesting Certificate duly executed by Siemens.

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- 8.2 On 13 July 2011 tie, BBUK and Siemens shall request that the Certifier issues a certificate in accordance with the Certifier Agreement (Certificate 3B Second Materials and Equipment) to Infraco and tie, certifying payment of the agreed sum of £4,333,000 (payable as £4,333,000 to Siemens) in respect of an agreed third payment to Siemens in respect of the transfer to CEC of ownership in and unencumbered title to such Materials and Equipment identified in the relevant Vesting Certificate. Such payment and transfer shall be made by tie and Infraco respectively on the later of (i) 27 July 2011 and (ii) the date of receipt by CEC of the relevant Vesting Certificate duly executed by Siemens.
- 8.3 On 10 August 2011 tie, BBUK and Siemens shall request that the Certifier issues a certificate in accordance with the Certifier Agreement (Certificate 3C Second Materials and Equipment) to Infraco and tie, certifying payment of the agreed sum of £4,333,000 (payable as £4,333,000 to Siemens) in respect of an agreed fourth payment to Siemens in respect of the transfer to CEC of ownership in and unencumbered title to such Materials and Equipment identified in the relevant Vesting Certificate. Such payment and transfer shall be made by tie and Infraco respectively on the later of (i) 24 August 2011 and (ii) the date of receipt by CEC of the relevant Vesting Certificate duly executed by Siemens.

#### 8A INTELLECTUAL PROPERTY RIGHTS

- 8A.1 The Parties acknowledge and agree that in relation to the Infraco IPR in the Materials and Equipment only reference to the Infraco Works in Clause 102.2.2 of the Infraco Contract shall be replaced by reference to the construction and completion of Phase 1a (excluding the spur at Roseburn Junction).
- 8A.2 The Parties acknowledge and agree that provided that tie has made payment in full pursuant to Clauses 8.1, 8.2 and 8.3 of this Minute of Variation nothing in Clause 102.4 of the Infraco Contract shall prevent the use of Materials and Equipment by tie in relation to the construction and commissioning of Phase 1a (excluding the spur at Roseburn Junction) following termination of the Infraco Contract provided that tie may not use such rights to design, construct, manufacture, commission or procure any materials and equipment.

#### 9 PAYMENT FOR THE PRIORITISED WORKS

- 9.1 Subject to the terms of this Minute of Variation tie shall pay to Infraco the Fixed Sum Prioritised Works Price and the Target Price Prioritised Works Price for the carrying out and completion of the Prioritised Works.
- 9.2 On each Valuation Date the Parties shall request that the Certifier shall certify in accordance with the Certifier Agreement:
- 9.2.1 the completion of each Fixed Sum Prioritised Works Milestone which has been completed since the last Valuation Date; and
- 9.2.2 the completion of each Target Price Prioritised Works Milestone which has been completed since the last Valuation Date,
  - and the Parties acknowledge that the Certifier shall, on the same date issue a certificate ("Valuation Certificate") to tie and Infraco pursuant to the Certifier Agreement.
- 9.3 On receipt of a Valuation Certificate Infraco shall submit a valid VAT invoice to tie and payment will become due to the Infraco on receipt by tie of such valid VAT invoice. The final date for payment by tie to the Infraco shall be the date occurring 14 calendar days after receipt by Infraco and tie of the Valuation Certificate (provided a valid VAT invoice has been received by tie from Infraco).
- 9.4 Any certificate issued by the Certifier pursuant to this Minute of Variation and /or the Certifier Agreement and any assessment pursuant to Clause 9.6 below, shall be final and binding on the Parties except in the case of manifest error or fraud.

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- 9.5 All sums expressed or referred to in this Minute of Variation and all sums due under certificates issued by the Certifier pursuant to this Minute of Variation and /or the Certifier Agreement are stated exclusive of Value Added Tax thereon. In addition to payments due under this Minute of Variation and such certificates tie shall in addition pay to the Infraco any Value Added Tax properly chargeable by Infraco thereon.
- 9.6 Preliminaries shall be deemed to be a time based payment and shall be certified for payment once the relevant time period has elapsed without the need for further valuation or substantiation.
- 9.7 For the avoidance of doubt, where pursuant to the terms of the Certifier's Agreement the Certifier makes an assessment that the Prioritised Works are in delay as a result of circumstances in respect of which tie is responsible for delay, Preliminaries shall be certified for payment as set out in Clause 9.6.
- 9.8 Notwithstanding the foregoing, to the extent that Infraco does not progress the Prioritised Works in accordance with the Prioritised Works Programme and to the extent that tie is not responsible for such lack of progress, the Certifier shall make a reasonable assessment of the Preliminaries properly due to Infraco and the same shall be certified for payment.

#### 10 TOTAL PRICE

- 10.1 The Parties agree that the Fixed Sum Prioritised Work Price and all sums payable by tie pursuant to Clauses 6, 7 and 8 of this Minute of Variation shall comprise part of the Total Price.
- 10.2 The Parties agree that the Target Price Prioritised Works Price shall comprise part of the Target Price.
- 10.3 Save as hereinafter provided for, the Parties agree that the Change Procedure will, in the period from the date of this Minute of Variation to the Relevant Date apply to all Changes and that Clause 80 of the Infraco Contract shall be dis-applied for the period from the date of this Minute of Variation to the Relevant Date. Nothing in the Change Procedure shall operate to establish the entitlements of Infraco in relation to the Tram Supply Obligations and the Tram Maintenance Services.
- The Parties acknowledge that where there is a Change, the Total Price and/or the Target Price shall be adjusted to reflect the value of the tie Change Order.

#### 11 EXCESS TRAMS

Infraco agrees to provide such assistance as may be reasonably required to enable tie/CEC to sell, lease or otherwise deal with any Trams which are in excess of the current requirements of tie for that part of the Edinburgh Tram Network running from the Airport to St Andrews Square, subject to agreement between the Parties on terms including reasonable payments on commercial terms to be paid to Infraco for modification of the Trams and assistance as previously described, with it being acknowledged also that any external costs to Infraco arising from these matters are not for the account of Infraco.

#### 12 MAR HALL CONFIDENTIALITY AGREEMENT

The Parties acknowledge and agree to remain bound by the provisions of the Mar Hall Confidentiality Agreement entered into on behalf of each of them on 8 March 2011.

#### 13 COMMUNICATIONS PROTOCOL

By their execution of this Minute of Variation the Parties agree that the preparation of any required statement shall be prepared by CEC and provided to Infraco for approval, such approval not to be unreasonably withheld or delayed, tie acknowledges that Infraco are

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ich are required to seek relevant company head quarters final approval for release of any such statement, such approval not to be unreasonably withheld or delayed.

#### 14 MORATORIUM

- 14.1 The Parties agree that provided that MoV5 is entered into:
- 14.1.1 tie/CEC will not terminate the Infraco Contract on the basis of any Remediable Termination Notices and/or Underperformance Warning Notices served prior to 12 March 2011 or on any of the same facts and circumstances identified therein to the extent that such facts and circumstances existed on the date of execution of this Minute of Variation; and
- 14.1.2 all existing claims and further claims by Infraco under the Infraco Contract which relate to events which occurred prior to entering into of this Minute of Variation will not be prosecuted; and
- 14.1.3 tie/CEC shall not seek to recover liquidated and ascertained damages in respect of any delay in achieving the Planned Sectional Completion Dates in the Infraco Contract or the Agreed Tram Commissioning Dates in the Infraco Contract/Tram Supply Agreement.
- 14.2 Neither Party shall:
- 14.2.1 Without prejudice to Clause 4.2, bring a claim against the other Party under the Infraco Contract to the extent that such claim arises out of any act or omission of the other Party where such Party is acting in compliance with its obligations under the Infraco Contract as amended by this Minute of Variation; and/or
- 14.2.2 seek to deny (i) a claim; or (ii) prevent the exercise of rights or compliance with obligations, under the Infraco Contract to the extent that any relevant provisions in the Infraco Contract have not been complied with in relation to any timing or submission requirements during the period between 24 February 2011 and the Relevant Date. Any period stated in the Infraco Contract in relation to such claim or exercise of rights or compliance with obligations shall be deemed to commence or recommence, as the case may be, on the Relevant Date.
- The Parties agree that all existing Disputes notified by either Infraco or tie under the Dispute Resolution Procedure set out in Schedule Part 9 (*Dispute Resolution Procedure*) to the Infraco Contract shall be effectively stayed or "frozen" until 2 July 2011. Unless the Parties agree otherwise at any time after 2 July 2011 either Infraco or tie shall be entitled to serve notice on the other of its intention to recommence any of the existing Disputes, the Dispute recommencing 7 calendar days following the service of such notice. Should this occur, the Parties agree that no issue shall arise in relation to any failure by either Infraco or tie to comply with the timescales set out in Schedule Part 9 (*Dispute Resolution Procedure*) of the Infraco Contract, during the period of suspension and/or as a consequence of this period of suspension.

#### 15 KEY SUB-CONTRACTORS

- 15.1 Each Infraco Member may appoint Key Sub-Contractors to carry out any part of the Prioritised Works and/or Infraco Works. The Parties acknowledge that there shall be no requirement for each Infraco Member to be a party to any sub-contract with any Key Sub-Contractor.
- 15.2 Each Infraco Member shall be free to choose the form of sub-contract for the Prioritised Works and/or Infraco Works to be entered into with each Key Sub-Contractor and tie/CEC shall have no entitlement to impose any restrictions on the management or replacement of the Key Sub-Contractors. Such sub-contracts shall contain reasonable obligations on the relevant Key Sub-Contractor in relation to health and safety.

#### 16 PRESERVATION OF RIGHTS

(

- 16.1 Subject to Clause 16.2 each Party preserves its rights and remedies in relation to any existing breach or other claim under the Infraco Contract as amended by this Minute of Variation as at the date of entering into this Minute of Variation (whether known or not at the date of execution of this Minute of Variation). The Parties further acknowledge that save to the extent varied by this Minute of Variation their respective rights and obligations in respect of the Infraco Works to the extent performed to date (other than works which will be remedied by the Princes Street Remedial Works forming part of the Prioritised Works) shall subsist.
- 16.2 The Parties agree and acknowledge that:
- the Fixed Sum Prioritised Works Price, includes a time related payment for the period during which the Prioritised Works are being undertaken which will be taken into account in any future determination of Infraco's entitlement to prolongation costs (if any) in the event of termination of the Infraco Contract pursuant to Clause 3.3 or otherwise;
- 16.2.2 the Planned Sectional Completion Date Section A shall be as amended pursuant to Clause 5.1.2.

#### 17 **DISPUTES**

The Parties agree that any dispute, difference or unresolved claim between the Parties in connection with or arising from this Minute of Variation shall be dealt with in accordance with the provisions set out in Schedule Part 9 (*Dispute Resolution Procedure*) of the Infraco Contract save that the Internal Resolution Procedure and paragraph 10 of that Schedule Part 9 shall be amended such that the Joint Project Forum described in the Governance Structure shall take the place of the respective Chief Executives (or equivalent) of tie and Infraco respectively.

#### 18 VARIATION

This Minute of Variation is a variation to the Infraco Contract for the purposes of Clause 108 (*Variations to be in Writing*) of the Infraco Contract.

#### 19 LAW AND JURISDICTION

Clause 117 (Applicable Law) of the Infraco Contract applies.

**IN WITNESS WHEREOF** these presents on this and the preceding 10 pages together with the Schedule in 10 Parts which is annexed and subscribed as relative hereto are executed as follows:

#### **EXECUTED** for and on behalf of tie LIMITED

at		
on	2011 by:	
Authorised Sign	natory	
Full Name		Victor Regulated Emery
Witness Signature		$\circ$
Full Name		Elizabeth Mabe
Address		Market Street, Edinburgh

# **EXECUTED** for and on behalf of **BILFINGER BERGER CIVIL UK LIMITED**

at EDINBURGH	
on 20 704 2011 by:	
Authorised Signatory	
Full Name	MARTIN FOERDER
Witness Signature	
Full Name	CHRISTOPHER OWENS
Address	139 FOUNTAINBRIDGE BOINBURGH

<b>EXECUTED</b> for and on behalf of <b>SIEM</b>	ENS PLC
at Edinburgh	
on Zo May 2011 by:	
Authorised Signatory	
Full Name	Attred Brandenburger
Witness Signature	
Full Name	PATRICK SCULLY
Address	NEWHALL, CARCOPS, MIDLOTHIAN

# **EXECUTED** for and on behalf of **CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES S.A**.

at EDINBURGH	
on 75th Hay 2011 by:	
Authorised Signatory	
Full Name	ANTONIO M. CAMPO)
Witness Signature	
Full Name	GAVIN INSH PATON
Address	120 BOTHWELL SMEET, GLASGOW

#### THIS IS THE SCHEDULE REFERRED TO IN THE FOREGOING MINUTE OF VARIATION

#### PART 1

#### PROGRAMME OF PRIORITISED WORKS

Ag ali. F



## NARRATIVE TO ACCOMPANY THE PROGRAMME PREPARED FOLLOWING THE MEDIATION ON 8 to 12 MARCH 2011 Revision 3, revised 6 May 2011.

Note: The Programme has been revised to accommodate the agreements reached between the parties on the scope and schedule of works to be undertaken on Princes Street.

#### **Prioritised Works**

Works commenced on 3 May 2011 following the agreement of the form of MoV 4, with the exception of the mini test track and the Depot external works which recommenced on 4 April 2011 and the works on Princes Street which are programmed to commence on 2 July 2011.

#### Princes Street

The Programme is based on the programme assumption that the whole of Princes Street shall be available and that there will be no interruption of a summer Embargo, i.e. Full Closure of Princes Street from 2 July 2011 until 26 November 2011. Further, there is no allowance in the programme for dealing with utility works or delay resulting therefrom. Completion is subject to the assumption that there is no slippage due to adverse or severe weather.

#### Scope

1. Princes Street Road/Rail Joint - Enhanced Design

The works involve the removal and replacement of bituminous surfacing adjacent to the rails on Princes Street with coloured concrete to try and match the adjacent asphalt road surface. All road markings, road studs and areas of Antiskid/Coloured Surfacing within the areas that are affected by the works will be replaced / reinstated.

The length of the works is as detailed below.

Inbound Track (East Bound Carriageway)

Section 1C Chainage 121,370
Section 1D Chainage 130,000
Chainage 130,380

Outbound Track (West Bound Carriageway)

Section 1C Chainage 121,374
Section 1D Chainage 130,000
Chainage 130,380

July 2011: Works will commence on the tram tracks on the south side of Princes Street, involving planing to a depth of 250mm along the entirety of the street with planing machines working from both ends. Work will subsequently be carried out to infill the area around the tram rails with reinforced concrete. The north side road lanes, during this time will remain open to pedestrians and delivery vehicles, up until the end of the festival period. The south side footpath will remain open throughout the remedial works.

September 2011: Following the Summer Festival fireworks, work will also commence to plane to a depth of 250mm along the north side lanes of Princes Street, and infill the area around the tram rails with concrete.

Page 1 of 5



End November 2011: All work on Princes Street will cease for the duration of the Christmas/New Year shopping season and the areas where construction has not been completed will be temporarily surfaced and the site compound will be removed. Princes Street will remain pedestrianised.

January 2012: Work will recommence on Princes Street to complete the reinforcement of the outstanding section of tram track and carry out ancillary work, erecting overhead line poles, associated equipment and to install the street furniture at the tram stop.

Early May 2012: Target completion date.

#### 2. OLE Works & Street Lighting

OLE Foundations within the section from Hanover Street to Waverley Junction (7 nr) and South Charlotte Street to Lothian Road (4 nr) will be completed. Note there are utility/basement/design conflicts associated with these foundations that require resolution. All OLE poles will be erected and street lighting installed.

#### 3. Tram Stop

The tramstop finishes will be completed but no furniture including the shelter, PID, bins etc will be installed.

#### 4. Scottish Water

Completion of works from the original phase of construction works and includes provision of additional crossing due to OLE conflict. The pipework is in place and only the connection has to be completed. Notifications and SW requirements may affect the actual start date.

#### 5. BT

BT remedial works in the area of South St David Street will be completed.

#### 6. Chambers

The remedial works will commence after 2 July 2011 and be completed.

#### Finishes

All outstanding works to footways, pedestrian barrier, signs and track drainage will be completed.

#### Haymarket Viaduct

The Track is to be constructed from the tangent point at the end of the straight section of track at the eastern end of Haymarket Viaduct to the tangent point at inbound track Chainage 200,260 and the tangent point at outbound track Chainage 200,207 and the road fully reinstated. Prioritised Works to Haymarket Viaduct is restricted to that necessary to lay the tracks including the concrete infill of the Rheda City track construction. (N.B. construction work on track curves must start and finish at tangent points).

age 2 of 5



Although the track bed is constructed in the second phase of traffic management, a third phase of traffic management is required (that can only take place after phases 1 & 2) to complete the outbound track (Chainage 200,207 to 200,260) that runs in Haymarket Yards. This third phase is not part of the Prioritised Works.

#### Depot Access Bridge

Construction continues and is anticipated to be complete in May 2011.

#### The Depot

Internal work on the Depot Building continues. External works recommenced on 4 April 2011. The Depot Building will be available to take delivery of up to the first five trams from 15 October 2011 following the issue by tie of a partial completion certificate in respect of the Depot Building. The trams will be unloaded on track 15 and stabled inside the Depot Building. The unloading and shunting activities of each tram into the Depot Building shall be within reasonable times agreed between BB, Siemens and CAF to minimise the disruption of the Prioritised Works.

The works in the Depot area to the east of the Depot Access Bridge that become redundant once the Edinburgh Gateway is instructed have been deleted from the Programme and hence "Section A" needs to be redefined. The Depot (excluding area east of Depot Access Bridge) will be available to take delivery of any further trams from 16 December 2011 following the issue by tie of a completion certificate in respect of Section A. Note warrantee period commences with the issue of the completion certificate. This will involve handover of Depot and commencement of handover procedures with the Operator.

To create a Programme that represents a complete scope of works, provisional activities have been added to represent what may require construction under the Edinburgh Gateway. The duration and logic applied to these activities is provisional only. The actual impact of the Edinburgh Gateway on the Programme can only be determined once the works are instructed and the appropriate IFC drawings are available.

#### Mini Test Track

To achieve the shortest programme period the mini test track constitutes a single track on the inbound track from chainage 531,230 to 531,800. These locations are determined by the OHLE design. This track will be connected to the depot via the depot west entrance switch. A temporary Overhead Catenary System will be installed using the final back stay at chainage 531,749 at the west end and a new back stay to be installed around chainage 531,260 in the east end of the mini test track. This will result in an energised and usable track of about 400m. The period reflected in the programme includes a 2 week period for energisation tests. A temporary Overhead Catenary System will be designed and implemented on the east side of the Depot Access Bridge to enable all tracks within the Depot to be energised. The additional costs associated with implementing this temporary Overhead Catenary System to accommodate energisation of the mini test track will need to be agreed. This temporary Overhead Catenary System will be replaced at a later time with the permanent Overhead Catenary System when the Edinburgh Gateway has been designed and constructed.

The Edinburgh Gateway works also prevent the installation of the final radio mast in time to be available for the operation of the mini test track.

Page 3 of 5



The programme considers that for all works adjacent to the mini test track and the final works on the mini test track area will be executed under normal construction conditions, without any restrictions. Therefore this track cannot be permanently used for testing purposes until the final installation is completed.

#### A8 Underpass

Phases 1, 2 and 4 are programmed to recommence on 3 May 2011.

#### Auxiliary Items

The Programme includes for the following auxiliary items:

- · Additional Testing in Murrayfield Corridor
- Water of Leith Sewer Lining Works
- Demolition of Plots 97/102
- Testing of Contamination
- Advanced Site investigation Works in Section 1C/1D

#### **Remaining Off Street Works**

The remaining off street works are programmed to commence on or about 2 September 2011 following the signing of a further MoV by 01 July 2011.

The CAF works no longer form part of the programme however periods have been allowed for their works as previously advised by CAF to allow calculation of the dates for Planned Sectional Completion Section A and Planned Sectional Completion Section B.

age 4 of 5



#### General

The data date of the programme is 31 March 2011. For work activities currently under construction their anticipated actual progress at 31 March 2011 has been taken as the start point of the programme.

The programme for the works recognises the allowed working hours stated in the Code of Construction Practice of 0700 to 1900 Monday to Friday and 0800 to 1300 on a Saturday. However a 40 hour effective working week has been used to calculate the duration of activities to take account of rest breaks, un-exceptional weather delays and travel between work sites. Construction work will be required outside the hours stated in the Code of Construction Practice for Rail Possessions, work on busy road junctions, stringing catenary cables etc. The necessary approvals will be sought in advance for such works in accordance with the tender documents and the programme assumes that such approval will be granted as necessary to maintain the programme.

Assumptions and factual statements upon which the programme has been prepared are as set out in this document. General assumptions are as follows.

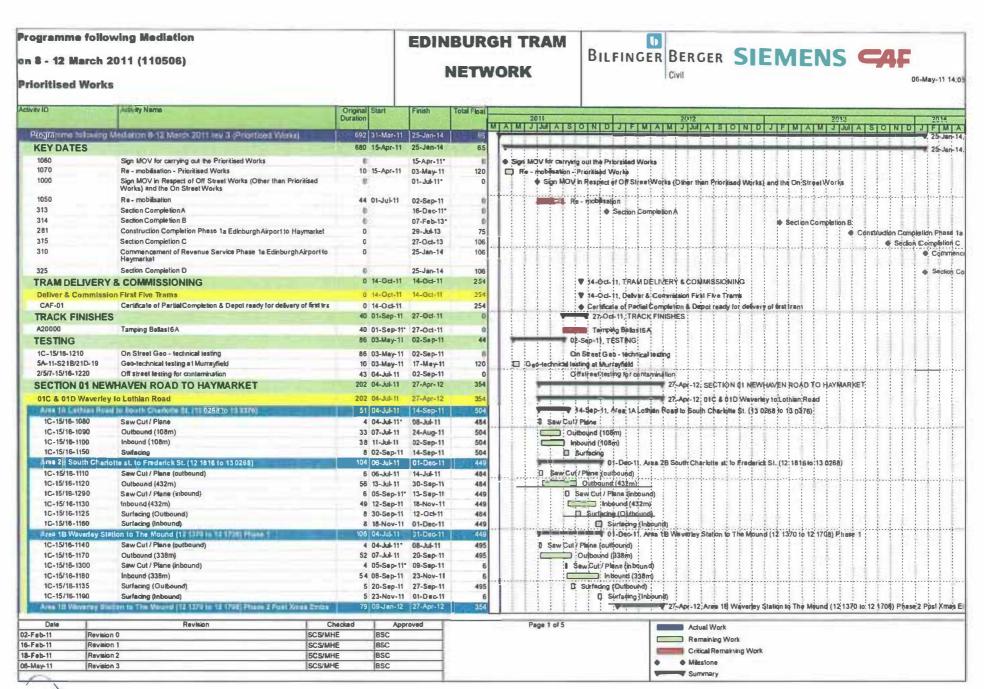
The programme assumes that all outstanding drawings have been issued at IFC status by the 31 March 2011 (excluding "Roseburn Viaduct" [the structures at Roseburn Street] (20 June 2011) and the redesign of S21B, C and D (16 May 2011))

The programme assumes that all Third Party approvals / licenses will be in place for these works to commence and proceed as shown.

Detailed programmes are available for all structures. The programme shows summaries of these programmes.

The construction works in general are subject to Network Rail approval. An eleven week period has been assumed for all Network Rail WPP and form C approvals, which includes a three week "cooling off period" for the WPP. The Programme generally shows the latest dates for these approvals.

Page 5 of 5





# Programme following Mediation on 8 - 12 March 2011 (110506) Prioritised Works Activity ID Activity Name 1C-15/16-1200 Saw Cut / Plane 1C-15/16-1220 Outbound 1C-15/16-1230 Inbound 1C-15/16-1230 Saw Cut / Plane 1C-15/16-1230 Saw Cut / Plane

# EDINBURGH TRAM NETWORK



Summary

ctivity ID Activity Name			Start	Finish	Total Float		
		Duration			A State of	2011	2012 2013 20
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1C-15/16-1	0011 0011 10110		09-Jan-12°				SawCut/Plane:
1C-15/16-1			12-Jan-12		No. 2 (1977)		Cutbound
1C-15/16-1			16-Jan-12		Control of the Contro		lhbdund :
1C-15/16-1		1,000	17-Apr-12	A CONTRACTOR OF THE CONTRACTOR			☐ Surfacing
Ame 2A Th	ia Material for Frederick Street (52 1792 to 52 1816). Tierrotop Area	72	11-Jan-12	20-Apr-12	359		ZU-Apr-12, Area 2A/The Mound to Frederick Street (12 1708 to 12 1616) Trainstop Area
1C-15/16-1	1250 Sew Cul / Plane	4	11-Jan-12	16-Jan-12	359		Saw Cult / Plane
1C-15/16-1	1270 Inbound	38	18-Jan-12	09-Mar-12	381		Inbaind Inbaind
1C-15/16-1	1260 Outbound	59	19-Jan-12	11-Apr-12	359		Dutbound .
1C-15/16-1	1280 Surtacing	7	12-Apr-12	20-Apr-12	359		O Surfacing
Trainatea	The state of the s	29	20-Oct-11	01-Dec-11	449	Oi-I	Dec-11, Tramstop:
1C-15/16-1	1310 Finishes	29	20-Ocl-11	01-Dec-11	449	Fine	
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1C-15/18-1				01-Sep-11		OLE Pole Erecti	
bound Lyn				25-Aug-11		25-Aug-11 Stree	
1C-15/16-1		E-211-1-176	ALC: NO PERSONS ASSESSMENT	A Company of the last of the l			
				25-Aug-11			binets/Cabling/Lighting Heads
Chambers		The same of the sa	SCHOOL SECTION	22-Jul-11	541	22-Jul-)1, Ghanbers	
1C-15/16-1			04-Jul-11*		541	Remove/Résel/Resur	
SECTION	I 2 HAYMARKET CORRIDOR	125	03-May-11	27-Oct-11	483	₹ 27-Oc-1	1, SECTION 2 HAYMARKET CORRIDOR
02A Havma	arket Corridor	125	03-May-11	27-Oct-11	483	27.Od-	11,/02A Hayrrag ket:Corridot
	t (inc.) to Roseburn Junction (inc.)	9/03	03-May-11				11, Haymarket (Inc.) to Roseburn Junction (inc.)
	station Viaduct (S19)	THE RESERVE THE PERSON NAMED IN	10-Aug-11	- IDOLENZOZANI			market Station Vieduct (S19)
		200	March Transfer	BEDSTERN BOOK BOOK			Market Station Medica (S19)
2A-13-S1			10-Aug-11			Finishes	
Trackwork	(1135m)		03-May-11			27-Od-1	
Construc	ction	125	03-May-11	27-Od-11	483	27-Od-1	11, Construction
Haymari	ket Yards	126	03-May-11	27-0d-11	483	27.00 t	H. Heymacket Vards
Phase :	2 Ch 125 to 260 (inbound) Ch 125 to 207 (Outbound)	81	03-May-11	26-Aug-11	527	26-Aug-11 Phas	e 2 Ch 125 to 260 (Inbound) Ch 125 to 207 (Outbound)
	B-TRCK-260 Eslabish Traffic Management		03-May-11	-		1 Establish Traffic Menagement :	
	B-TRCK-270 Site Clearance		04-May-11			I Site Clearance	
	B-TRCK-280 Plane Out Surfacing		05-May-11			1 Plane Out Surfacing	
A CONTRACTOR	B-TRCK-290 Tram Ducis		06-May-11			Trem Ducts	
	B-TRCK-300 Excavate		06-May-11			() Excavate	
4	8-TRCK-310 OLE Beses		06-May-11			OLE Base's	
	B-TRCX-320 Drainage		06-May-11			Drainége	
	B-TRCK-330 Improvement Slab		02-Jun-11			Improvement Slab	
-	B-TRCK-330 Improvement Said		01-Jul-11		294	Set Track	
			01-Jul-11		294	Corlcrete Track	
	B-TRCK-350 Concrete Track			18-Jul-11	558		The state of the s
	B-SIGN-100 wayside preparation for toops(2) and boxes(8)		06-Jul-11	13-Jul-11		: Waytide preparation to	
	B-TRCK-360 Pavement Construction Outside Raits		22-Jul-11	-		Pavement Const	
	B-TRCK-370 Pavement Construction Between Rail		26-Jul-11	04-Aug-11		D Pavemen Construc	
1	1 Ch 80 to 125		09-Aug-11				11, Phase 1 Ch 80 to 125
	B-TRCK-140 Establish Traffic Management		09-Aug-11	-		I Establish Traffic Ma	negement
1.00	B-TRCK-150 Sile Clearance		10-Aug-11			1 Sile Diearance	
2A-13I	B-TRCK-160 Plane Out Surfacing		11-Aug-11	11-Aug-11		I Plane Out Spriedn	
	B-TRCK-170 Tram Ducts		12-Aug-11			0 Tram Ducts	
2A-131	8-TRCK-180 Excavate	. 1	12-Aug-11	12-Aug-11	1 305	1 Excelvate	
Date	Revision	Checked	Appl	oved	-	Page 2 of 5	Actual Work
eb-11	Revision 0	SCS/MHE	BSC				
Feb-11	Revision 1	SCS/MHE	BSC				Remaining Work
Feb-11	Revision 2	SCS/MHE	BSC		5		Critical Remaining Work
	Revision 3	SCS/MHE	BSC	-			♦ Mēestona





#### Programme following Mediation **EDINBURGH TRAM** on 8 - 12 March 2011 (110506) **NETWORK**



Prioritised	Works	
1277		

rity C	Actarity Name	Origin	Start	Finish	Tota Foat	The Control of the Co	
		Duratio	n		MALE STATE	2011	D J F M A M J J J A S O N D J F M A M J J J H A S O N D J F
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2A-13B-TRCK-200			2 12-Aug-11		304	: Drahage :	
	Improvement Stab		1 22-Aug-11	_		I Improvemen	nl Slab
	1 Track Laying 3 (Haymarkel Vaduct + Phase 1)		5 31-Aug-11				aying 3 (Heymarket Vad iscl + Phiase I)
	weyside preparation for loops(1) and boxes(2)		2 19-Sep-11				preparation for loops (1) and boxes (2)
2A-13B-TRCK-230			3 21-Sep-11			Concret	
	Pavement Construction Between Rail		4 03-Oct-11		297		ment Construction Between Reii.
	Pavement Construction Out side Rails		7 03-Oct-11		294		meht Construction Outside Rails
	Pevernent Jnct, Haymarket Terrace Haymarket Yards.		2 12-Ocl-11		294	1 1 1 1 1 1 1	venient Uncl. Helymerket Terraco Haymarket Yards.
71			2 31-Mar-11				02-Dec-11 SECTION 05 ROSEBURN JUNCTION TO GOGAR
	EBURN JUNCTION TO GOGAR						
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oseburn Junction (e	xc.) to Murrayfield Stadium (inc.)	State of Sta	0 04-Jul-11	16-Aug-11	156	9 16-Aug-11, R	Roseburn Jun ction (exc.); to Murrayfield Stadium (inc.)
Russell Road Retain	ing Walls (W3 and V4)	3	0 04-Jul-11	16-Aug-11	156	▼ :16-Aug-11, R	Russell Road Retaining Walls (W3 and W4)
Construction		CONTRACTOR SERVICES	0 04-Jul-11	16-Aug-11	AND REAL PROPERTY AND PERSONS ASSESSED.	16-Aug-11, C	
5A-12-W4-22	Building Warrant Approval		0 04-Jul-11	10 may 11	156	Building Warrant A	
5A-12-W4-22 5A-12-W4-31	Demolish and rebuild			16. Aug 11	1000	Demoish and	
	The state of the s		0 04-Jul-11	16-Aug-11	and the same of the same		
	exc.) to Balgreen Road (inc.)		0 04-Jul-11	02-Aug-11	105		urrayfield Stadium (exc.) to Balgreen Road (inc.)
Water of Leith Bridge	(S21E)		0 04-Jul-11	02-Aug-11	105		ater of Leith Bridge (S21E)
Enabling Works		2	0 04-Jul-11	02-Aug-11	105	02-Aug-11, En	abling Works
5A-11-S21E-35(3)	Sewer Enabling Works	2	0 04-Jul-11	02-Aug-11	105	Sawer Enablin	g Works
05C Edinburgh Park	Central (exc.) to Gogarburn (inc.)	17	2 31-Mar-11	02-Dec-11	448		7 02-Dec-11.05C Edinburgh Park Centrel (exc.) to Gogarburn (inc.) ;
Gyle Centre (exc.) to I	Depot Stop (inc.)	200 A 100 A	0 31-Mar-11	18-Oct-11	480	18-0	Oct-11, Gyla: Ceritre (em;) to Depot Stop (inc.)
A8 Underpass (WZ8)			8 03-May-11	18-Oct-11	237	18-0	Oct-11. AS Underpass (W28)
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Phase 4				27-Sep-11			>-11; Phise 4
5C-03-W28-20	Dack Construction		0 03-May-11			Dack Construction	
5C-03-W28-30	South Portal		5 01-Jun-11	-		South Portal	
5C-03-W28-40	Finishes	7	3 15-Jun-11	27-Sep-11		Finisho	)8   1,
Tunnel Construction	n	6	1 10-Jun-11	18-Oct-11	237	18-0	pc-n. unnel Construction
5C-03-W28-90	Phases 1 & 2	9	1 10-Jun-11	18-Oct-11	237	Phd Phd	ses 1 6 2
Depot Access Bridge	(S32)		0 31-Mar-11	28-Apr-11	600	28-Apt-11 Depot Access B	ridge (Si22)
5C-03-W32-90	Completion Works		0 31-Mar-11	28-Apr-11	600	Completion Works	
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Mini Test Track relate		THE RESERVE AND ADDRESS OF THE PARTY OF THE		02-Dec-11			7 02-Dec-11, Mini Test Track related
Trackwork Ch 1230		the state of the s	DO FOR HELD HAD	02-Dec-11	ALC 100 TO 100 T		02-Dec-11, Trackwork Ch 1230 to 1588
			AREAL TO THE		THE PERSON NAMED IN	Trima:SoitBetter/ BuildEart	02-DQ011, F18CAR318 CH1230 ID 1300
5C-02-TRCK-15	Trim & Soil Batter/ Bulk Earthworks / Improvement Layer			25-Apr-11			
5C-02-TRCK-25	Pre Earthworks Drainage 1.016 to 1.014			04-May-11		Pre Earthworks Drainage	
5C-02-TRCK-105	Pre Earthworks Drainage outfal for 5 & 7			09-May-11		Pre Earthworks Dramage	
5C-02-TRCK-95	Pra Earthworks Drainage 1.013 to 1.012 to 1.011 to 1.004		5 05-May-11				age 1.0 13 to 1.0 12 to 1.0 11 to 1.004
5C-02-TRCK-125	Pre Earthworks Drainage 5.002 to 5.000			23-May-11		Pre Earthworks Dreinag	
5C-02-TRCK-135	Pra Earthworks Drainage 7.002 to 7.000		0 24-May-11			Pre Eeriktworks Drains	
5C-02-TRCK-35	Excavation / Fill (sub base foundation to track slab)		5 08-Jun-11				lb base founttalion to track slab)
5C-02-TRCK-45	OLE Foundations		10 29-Jun-11		284	OLE Foundation	
5C-02-TRCK-55	Drainage & Ducling		9 13-Jul-11	25-Jul-11	284	Drainage & Dui	cting
Date	Revision	Checked	And	proved		Page 3 of 5	1
Feb-11 Revision		SCS/MHE	BSC			1 mg 2 01 0	ActualWork
eb-11 Revision		SCS/MHE	BSC				Remaining Work
eb-11 Revision		SCS/MHE	BSC				Critical Remaining Work
AND IT STORES			200				◆ ◆ Milestone





#### Programme following Mediation

#### on 8 - 12 March 2011 (110506)

# EDINBURGH TRAM NETWORK



rioritised Works						I Civil		
90	Activity Namo	Original Start	Finish	Total Float				
		Duration		W NO DE	2011	MAMJJULASONDJEMIA	2013	2014
5C-02-TRCK-65	Reinstatement & Blinding	15 26-Jul-1	1 16-Aug-1	1 284	Relostatement & Blinding	M A M V SUI A S O N D V F M A	M J JULY A S O N C	JITIN
5C-02-TRCK-75	Track Slab	30 12-Aug			Track Slab	······································		
5C-02-TRCK-85	Track Slab Upstands	30 19-Aug	11 29-Sep-1		Track Slet Uptian	He		7 1 1
5C-02-TRCK-115	Fencing & Reinstatements		-11 02-Dec-1			Reinstellements		4
track laying and E&M		94 22-Jul-1				Irack laying and E6M		
5C-02-TRCK-70	Track Laying Rheda green (inbound only Ch. 1588 - 1836)	5 22-Jul-1	1 28-Jul-11	193		(inbbund only Ch. 1588 - 1836)		
5C-02-TRCK-90	Track Laying direct fix incl 3 switches (inb. Ch. 1230 - 1588; outb 1415 - 1511)		-11 27-Ocl-1			rect for incl 3 switches (inb. Ch. 1230 - 1588; duto Ch. 14	15 - 1511)	
5C-02-SIGN-70	point machine mechanical set up	15 23-Sep	-11 13-Oct-1	1 483	point maich inis m	echanical safun		
5C-02-SIGN-60	wayside preparation for loops(4) and boxes(1)		11 27-Oct-1			ration for loops(4) and boxes(1)		1 1
5C-02-TRCK-80	Track Finishes	15 28-Oct-	11 17-Nov-1	1 284	Track Finjsh			1 1
5C-02-TRCK-101	Temporary calenary inbound Ch1257 to 1720	10 04-Nov	11 17-Nov-1	1 448		tatehary inbound Chi 257 to 1720		
5C-02-TRCK-111	OCS testing and commissioning Mini Test Track	10 18-Nov	-11 02-Dec-1	1 448		hp and dominissioning Miki Test Track	4	
5C-02-TRCK-121	Mini Test TrackAvailable	0	02-Dec-1	1 448		rack Available		
Trackwork Ch 1588 to	1840	149 05-May	11 02-Dec-1	1 284		Trackwork Ch 1588 to 1848		3 1 1
5C-02-TRCK-50	Drainage 2.009 to 2.005		11° 24-May-1		Drainage 2:009 to 2,005			
5C-02-TRCK-40	Ducis		11 06-Jun-1		C Ducis			111
5C-02-TRCK-60	Reinstalements		11 13-Jun-1		D Reinstatements			
5C-02-TRCK-91	Track Foundations		11 07-Jul-11		Track Foundations			
5C-02-TRCK-92	Gogar Castle Road Works	15 01-Jul-1			Goger Castle Road Works		11111111	
5C-02-TRCK-81	Fencing and Reinstatements		11 02-Dec-1			hd Reinstelements		111
SECTION OF GOG			-11 16-Dec-1			to be a second to the second s		111
	AR DEFOT				16-Dec-	III, BECITO, CO GOGAR DEFO		
08A Gogar Depot			11 16-Dac-1		7 16-Dec	11, 66A Gogar Depqi		111
Depot		182 31-Mar	11 16-Dec-1	1 555	16-Dec	11, Depòt		4 1 1
Earthworks		5 25-Apr-	11 29-Apr-1	1 22	▼ 28-Apr-11. Earthworks			# III
6A-01-TRCK-51(3)	Drainage	5 25-Apr-	11 29-Apr-1	1 22	Dealnage			111
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6A-01C-TRCK-70	Track Laying Finishing	17 12-Aug	11 05-Sep-1	1 38	Traci Laying Finishing			1
8A-01-SIGN-60	wayside preparation for loops(X) and boxes(X)		11 25-Aug-1		wayside preparation for			
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6A-012-TRCK-76(3)	Second Leyer Ballast		11° 07-Apr-1		1 Second Layer Ballast			1 7 1
6A-012-TRCK-95(3)	Handover to Track Contractor	0	07-Apr-1		A Handover to Track Contractor		d	111
6A-012-TRCK-98(3)			11 19-May-1		Trackwork	···		
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8A-013-TRCK-75(3)	First I name Raffart		11 23-May-1		I First Layer Ballost			1 7 3
6A-013-TRCK-76(3)	Second Layer Balast		11 31-May-1		Second Laver Ballast			
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6A-013-TRCK-96(3)		22 09-Jun-			Tredwork			
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6A-014-TRCK-60(3)			11 08-Jun-1					
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Date	Revision		pproved		Page 4 of 5	Actual Work		
ab-11 Revision (		S/MHE BSC		-		Remaining Work		
eb-11 Revision		S/MHE BSC				Critical Remaining Work		
Feb-11 Revision 2 May-11 Revision 3		S/MHE BSC				Milestone		
May-11 Revision 3	ISC:	S/MHE BSC				▼ Meca(one		





#### **Programme following Mediation EDINBURGH TRAM** BILFINGER BERGER SIEMENS CAL on 8 - 12 March 2011 (110506) **NETWORK** 06-May-11 14:0 **Prioritised Works** Activity ID Activity Name MIAIMIJ JUHAISIO NID JIFIMIAIMIJ JUHAISIO NID JIFIMIAIMIJ JUHAISIO IN Area 5 (Workshop Area inc. hardstanding) 45 04-Apr-11 08-Jun-11 08-Jun-11, Area 5 (Workshop:Area inc. herdslanding) : 6A-014-TRCK-152(3) Drains 9 04-Apr-11\* 14-Apr-11 15 6A-014-TRCK-180(3) Ducis 15 5 15-Apr-11 21-Apr-11 D Ducts 6A-014-TRCK-174(3) Cut Formation 3 25-Apr-11 27-Apr-11 15 E Cut Formation 6A-014-TRCK-175(3) Subbase 5 28-Apr-11 05-May-11 15 D Subbase 6A-014-TRCK-176(3) Track Stab Track Slab 10 06-May-11 19-May-11 15 6A-014-TRCK-195(3) Handover to Track Contractor 19 - May-11 15 ◆ :Handover to Track Contracter Tradiwork 6A-014-TRCK-196(3) Tractwork 13 20-May-11 08-Jun-11 15 Area 6 (East of Accese Bridge) D 31-Mar-11 31-Mar-11 737 31-Mer-11 Area 6: (East of Access Bridge) 6A-013-TRCK-195 Works suspended awaiting Edinburgh Gateway decision 31-Mar-11 737 Works suspended awaiting Edinburgh Gateway dedision 18-Oct 18-Oct-11, Depot Buil@ig E & M Workshop Equipment Installation 120 31-Mar-11 20-Sep-11 20-Sep-11, E & M Workshop Equipment Installation 6A-01-BLDS-72 Installation of workshop equipment 120 31-Mar-11 20-Sep-11 Installation of workshop equipment 42 Inspection & Handover 20 21-Sep-11 18-Oct-11 42 18-Oct-11, Inspection & Handovar 6A-01-BLDS-81 Inspection and Testing 20 21-Sep-11 18-Oct-11 42 Inspection and Testing US-Jul-11: Access Roads 6A-01-ROAD-90(3) 6 04-Apr-11\* 11-Apr-11 1) Cardark: Carpark 118 6A-01-ROAD-91(3) Hardstanding 40 04-Apr-11\* 01-Jun-11 140 Hardelanding 6A-01-ROAD-94(3) Access Road 22 12-Apr-11 13-May-11 116 Access Road 6A-01-ROAD-95(3) Complete Access Road & Finishes 30 16-May-11 27-Jun-11 110 Complete Access Road & Finisites 6A-01-JNC5-60 Installation of treffic light control- Junction 208 6 28-Jun-11 05-Jul-11 110 D iristallation of traffic light control - Junction 208 16-Dec-11, E & M Installations 6A-01-FLEC-40 Access for visual inspection to cable pits for cable laying (Depot) 0 13-Apr-11 728 Access for visual inspection to cable pits for cable taying (Depot) 6A-01-OHLE-40 Access for visual inspection for E&M Depot installation 0 16-Apr-11 724 ◆ Access for visual inspection for E&M Depot initaliation 8A-01-SGNW-70 Install Signaling Wayside Equipment (Depot) 12 20-May-11 07-Jun-11 136 hstall Signaling Wayside Equipment (Depot) 6A-01-OHLE-50(3) tostaliation of poles and building fixings (Depot) 12 20-May-11 07-Jun-11 60 installation of potes and building forme (Depot) 6A-01-OHI F-41 Access for E&M Depot installation 0 20-May-11 60 ◆ Access for E&M:Depot installation 6A-01-ELEC-41 Access to cable pits for cable laying (Depot) 0 20-May-11 . Accessto cable pils for cable laying (Depot) 108 6A-01-ELEC-70 Install Electrical Cables Depol 25 20-May-11 24-Jun-11 Instell Electrical Cables Depot 123 6A-01-SIGN-40 Installation of 2 SIG-interlocking cubicles depot entries 25 06-Jun-11 08-Jul-11 Installation of 2 SIG-interfecting citodes depot entries 108 5C-02-SIGN-90 installation of SIG equipment on depot entry west 10 20-Jun-11 01-Jul-11 106 installation of \$IG appropriate on depot entry west BA-DI-SIGN-BD Commissioning of 2 SIG -interlocking cubicles depot entries 10 04-Jul-11 15-Jul-11 108 Commissioning of 2 \$1G - Interlocking cubicles depot entries Overhead Catenary Line (Depot) 6A-01-OHLF-60(3) 61 31-Aug-11 24-Nov-11 Overhead Catenary Line (Depdi) Points mechine mechanical set up 6A-01-TRCK-80 Points machine mechanical set up 20 29-Sep-11 27-Ocl-11 35 6A-01-OHLE-60(3)10 OCS Testing & Commissioning 15 24-Nov-11 16-Dec-11 OCS Testing & Corninissioning 50 31-Mar-11 13-Jun-11 3-Jun-11, Operation Contro Capter (OCC) equipment toor Mout SIG/COM/SCADA/Radid 6A-01-SIGN-150 equipment foor fit out SIG/COM/SCADA/Radio 25 31-Mar-11 06-May-11 132 6A-01-SIGN-110 operating floor fit out 25 09-May-11 13-Jun-11 132 per sting floor fit out # 06-Apr-11, SECTION:07 GOGAR TO EDINBURGHAIRPORT 5 31-Mar-11 08-Apr-11 103 SECTION 07 GOGAR TO EDINBURGH AIRPORT 08-Apr-11, 07A Gogetburn (elc.) to Edinburgh Air port (inc.) 07A Gogarburn (exc.) to Edinburgh Airport (inc.) 5 31-Mar-11 06-Apr-11 Ingliston Park & Ride (exc.) to Edinburgh Airport (inc.) 5 31-Mar-11 06-Apr-11 # 06-Apr-11, Indiston Pink & Ride (exc.) to Edinburgh Airport (inc.) # 08-Aþr-11, Trackvork (833m): **EAL Programme** 5 31-Mar-11 06-Apr-11 103 9 08-Apr-11, EAL Programme 08-Abr-11, PhaseiC Phase C 5 31-Mar-11 06-Apr-11 103 5 31-Mar-11 06-Apr-11 Site Clearance 7A-05-W14C-07 Site Clearance Date Revision Checked Page 5 of 5 Approved Actual Work 02-Feb- 11 SCS/MHE Remaining Work SCS/MHF 16-Feb-11 Revision 1 BSC Critical Remaining Work 18-Feb-11 SCS/MHF Revision 2 RSC. Milestone 06-May-11 Revision 3 SCS/MHE BSC Summary





### PART 2 SCOPE AND PRICING OF PRIORITISED WORKS

AT dr.F



Edinburgh Tram Network

Prioritised Civil Works

29 March 2011

16

#### Summary

The works defined as 'Prioritised Works' are identified in the Mar Hall Heads of Terms dated 11 March 2011 and have been further developed, as discussed and agreed, through meetings and discussions.

The main items remain as per the Heads of Terms however it was felt prudent to highlight several areas where it would be beneficial to carry out work of low value to secure a programme benefit in the event that agreement is reached which would allow all of the works to proceed from Edinburgh Airport to Haymarket.

The attached schedule identifies work which could be defined as 'Prioritised Works' and contains elements of works which are Ongoing, On Hold and Not Yet Started.

Work which is On Hold and Not Yet Started would only start as a result of a Minute of Variation as envisaged by the Mar Hall Heads of Terms.

This note deals with the clarification of the original envisaged 'Prioritised Works' together with the development of other potential 'prioritised works and some additional comments on other ongoing issues.

We have also included some notes on the Advanced Expenditure of the On Street Target Price.

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#### **Prioritised Works**

The Main Elements of the 'Prioritised Works' Minute of Variation consists of

- The Princes Street Remedial Works and any outstanding Target Price works
- Haymarket Yards
- The A8 Underpass
- The Depot Access Bridge
- The Depot Building and External Works
- The Mini Test Track
- Auxiliary Works

We have prepared the amounts due to be paid under the 'Prioritised Works' Minute of Variation with reference to our Project Phoenix Proposal. i.e. Actual cost of the Subcontract Works.

The amounts noted for the Princes Street Works excluded the cost of the remedial works and represent only the TM and Enabling Works required to implement a full closure on Princes Street which will allow work which was planned to be done under the Target Price to be carried out.

We anticipate that the works in Haymarket Yards will be valued at around £900k. This is based on an assessment of the quantities for this area and subcontractor rates and prices.

It was not originally envisaged under the 'Prioritised Works' Minute of Variation that any works would proceed on the A8 Underpass however CEC have requested that the A8 Underpass be included as part of any 'Prioritised Works'.

Before the works were suspended we were constructing Phases 1, 2 and 4 of the A8 Underpass, therefore there is significant traffic management arrangements and utility protection measures which need to remain in place until work restarts.

Phases 1 and 2 also interact with the 250mm dia watermain feed to the Depot and Scottish Water have previously indicated that they will not permit the connection to happen until such times as this main is completed in its entirety. There is a risk that Scottish Water may revert to this position which would require Phases 1 and 2 to be backfilled and constructed to finished level to allow the installation of the main.

The re-commencement of the works at the A8 Underpass would be highly visible to the public.

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#### **Prioritised Works (Contd)**

It is anticipated that the Depot Access Bridge structure will be complete by the 3 May 2011 however the connection of the Depot Access Road, which is identified as being carried out under the 'Prioritised Works' Minute of Variation, across the Depot Access Bridge and onto the Gogarburn Roundabout may not be complete until July 2011.

The Depot External Civil works would be expected to be complete by August 2011, perhaps slightly earlier on the assumption of an early start in April.

The value of the remaining works in the Depot has been calculated using, as a base, the Project Phoenix Price from Barr Ltd with the addition of the Mini Test Track.

The civil element of the Depot Building is essentially complete with the exception of minor works related to the integration of Systems equipment.

We have assessed the value of the Mini Test Track using quantities and subcontractor rates.

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#### **Auxiliary Works**

As a result of the ongoing mediation there are a number of areas across the site where work is currently suspended and it is not envisaged that any work will be done in these areas under a 'Prioritised Works' Minute of Variation however there is an ongoing requirement to maintain traffic management, site safety arrangements and utility protection measures in the meantime.

The following areas come under this category:-

- Section 1A Traffic Management and Safety Fencing to accommodate works to Lindsay Road Retaining Wall and Tower Place Bridge.
- Traffic Management and Safety Fencing Section 2A through 5A, B and C
- Traffic Management and Utility Protection Measures at the A8 Underpass

We have also identified some key areas of work, some of which are comparatively low in value, where it would be beneficial to the future Programme if these works were instructed under a 'Prioritised Works' Minute of Variation.

#### They are as follows

• Additional testing in the Murrayfield Retaining Wall Corridor.

Through the normal process of submitting and agreeing Estimates under the Infraco Contract (INTC 625) it was identified that there was a need for extensive ground improvement works in the area of Murrayfield Stadium, in particular Retaining Walls S21B and D.

We have identified that it would be prudent to instruct around this ground investigation work to finalise the design.

The total cost of this work would be the order of 100k and would include testing and design costs. This process could be complete within 10 weeks of an instruction to proceed. This would allow the design to be finalised in advance of the works commencing in September 2011 thus ensuring the programme for this section of works.

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#### **Auxiliary Work (Contd)**

#### Water of Leith Sewer Lining.

Through the normal process of submitting and agreeing Estimates under the Infraco Contract (INTC 479) it was identified that there was a need for advanced works to protect an existing sewer in the area of the Water of Leith Bridge (S21E).

We consider that it would be prudent to instruct this work to ensure the Programme in this area, however we accept this structure is not on the critical path.

The total cost of this work would be the order of 70k. These works could be complete within 8 weeks of an instruction to proceed.

#### Demolition of Plots 96/97 Roseburn Garage

Through the normal process of submitting and agreeing Estimates under the Infraco Contract (INTC 368) it was identified that there was a need for additional demolition in the area of Russell Road Retaining Wall.

The demolition or otherwise of these properties will have a critical effect on the Programme in this discrete area and Section 5 as a whole.

We require CEC to finalise an agreement with the current owner which allows infraco to take access and demolish these properties. It would be necessary to start these works in advance of the currently planned date of 1 September 2011 to provide any programme benefit.

We anticipate that it will take 10 weeks to demolish these properties from an instruction to proceed, the demolition works are likely to cost around £100k.

#### Demolition of Plots 101/102

Through the normal process of submitting and agreeing Estimates under the Infraco Contract (INTC 368) it was identified that there was a need for additional demolition in the area of Russell Road Retaining Wall.

However this additional demolition (Plot 102) may have an impact on another existing property (Plot 101) and this needs to be resolved.

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#### **Auxiliary Work (Contd)**

#### • Demolition of Plots 101/102 (Contd)

The options available are to either strengthen and make watertight Plot 101 to allow the demolition of Plot 102 to proceed or alternatively extend the agreement with the current owner to demolish both plots in their entirety.

Our preferred option is to demolish both properties

It would be necessary to start these works in advance of the currently planned date of 1 September 2011 to provide any programme benefit.

Again we understand that there is no agreement with the current owner to allow any of these works to proceed in any event.

#### Russell Road Retaining Wall

The early resolution of Plots 96/97 and 101/102 could allow a start of the main construction works on the 1 September 2011.

#### • Site Clearance in Section 7A.

We have proceeded to clear trees in the area of the Gogarburn Retaining Wall (W14) prior to the start of the nesting season thus removing this constraint from future works. The works is of a nominal value of £20k and will be complete shortly.

#### Testing for Contamination

There is a nominal amount of testing required to be done to complete our assessment of the remaining contaminated land on the site.

Whilst not critical to the overall programme it does allow for the measures for dealing with contamination to be finalised in advance of any works starting in September 2011.

In addition we require the client to confirm the status of the Planning Application, which he has progressed, for the storage of non-hazardous material on or adjacent to the site. This would need to be in place for the 1 September 2011.

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#### **Milestone Schedule Updates**

There are two areas of the site where work has been/is in progress and where either the current Milestone Schedule does not represent the works actually carried out or that we have been prevented from updating the Milestone Schedule due to the lack of the issue of a tie Change Order.

They are as follows

- The Depot Building and External Work
- Section 5 Structures generally

We propose that the 1<sup>st</sup> and 2<sup>nd</sup> Mobilisation payments as envisaged under the 'Prioritised Works' Minute of Variation take into account, equally, the fact that the works have been properly carried out and that save for the absence of a tie Change Order the Milestone Schedule would have been updated and allowed the recovery of this cost.

It would not be correct to simply spread any balance due through a new, revised and simplified milestone schedule which would only come into effect after the 1 September 2011.

In respect of the Depot Building and External Works there was, prior to the Mediation, an initiative to resolve many of the outstanding INTCs relating to the Depot Area and there was a general recognition that there was an entitlement to be paid for these works.

The initiative was never concluded given that events were overtaken by the Mar Hall Heads of Terms however we continue to carry a significant cost which has not been reimbursed by way of being able to update the Milestone Schedule.

The amount of work carried out in the Depot Area in advance of being able to update the milestone Schedule is approximately £2 million.

In respect of the Structures in Section 5 we have assessed the cost of work carried out in advance of being able to update the Milestone Schedule to be of the order of £3.5 million.

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#### **Target Price**

The Mar Hall Head of Terms sets out that the On Street Works shall be paid for on a Target Sum basis and that the mechanism for calculating and amending the Target Sum will be agreed at a later date.

Since the Mar Hall Heads of Terms were signed further discussions have taken place whereby it has been identified that, for a variety of reasons, it would be beneficial to start these works before the 1 September 2011.

During discussions with CEC Roads Department it was identified that to inform both the Design and the Target Price it would be advantageous to identify, by way of trial holes, the condition of the existing road and sub-formation from Haymarket to St Andrews Square.

Additionally and at the same time this resource could identify the location of any utilities to allow CEC and the Infraco to plan and programme the works in these areas to minimise the effect of utilities on the construction of the Civils and Systems works.

We have for the purposes of this initial submission based the cost on our experience of trial holes on Leith Walk (INTC 490)

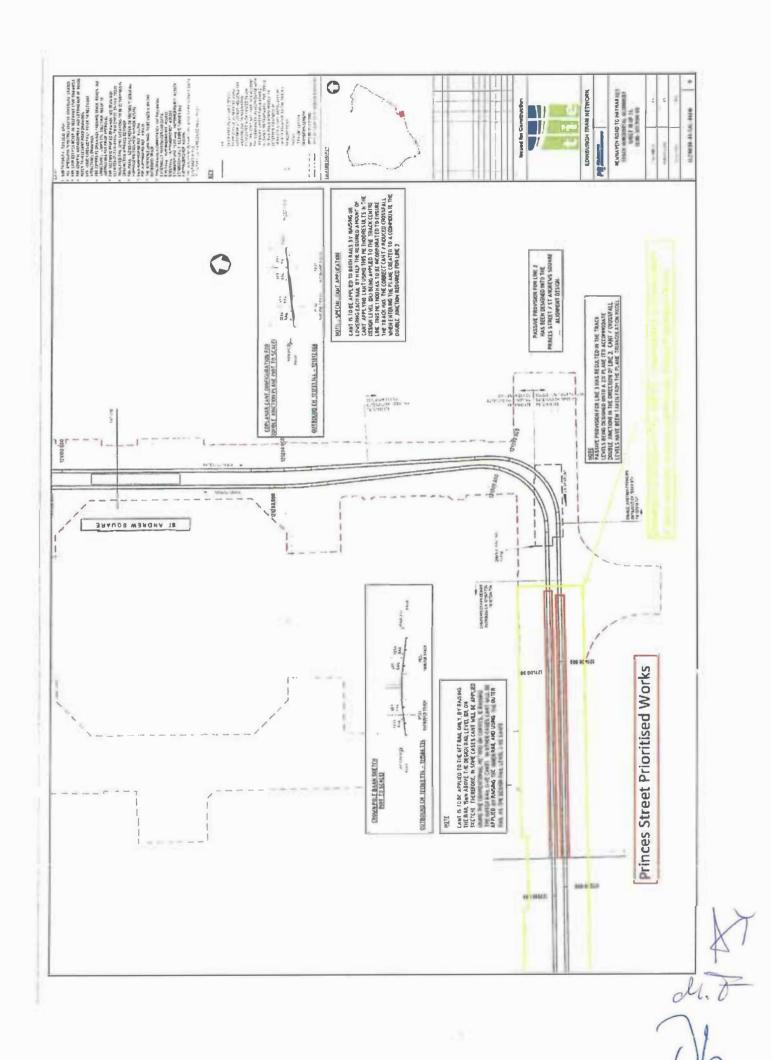
We understand also that a full closure on Princes Street will be permitted commencing early May 2011 and that the Embargo which prevents work being carried out in July and August will be lifted.

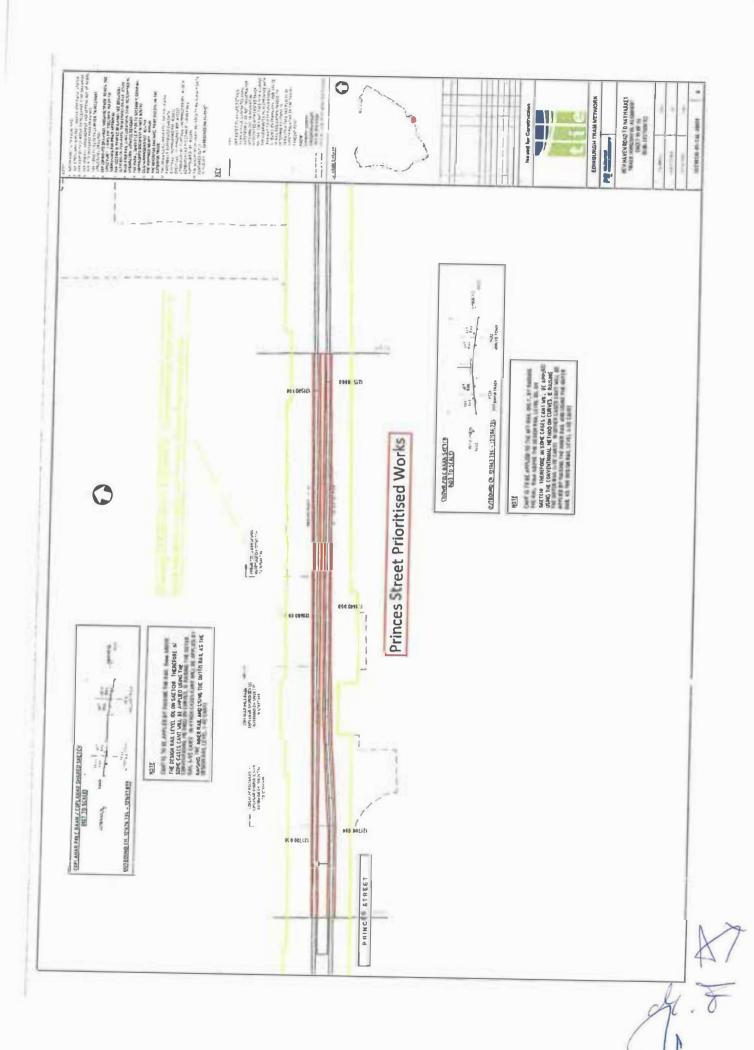
We had anticipated that we would carry out any remaining works on Princes Street in conjunction with the works to Haymarket to Lothian Road and Waverley Bridge to St Andrews Square.

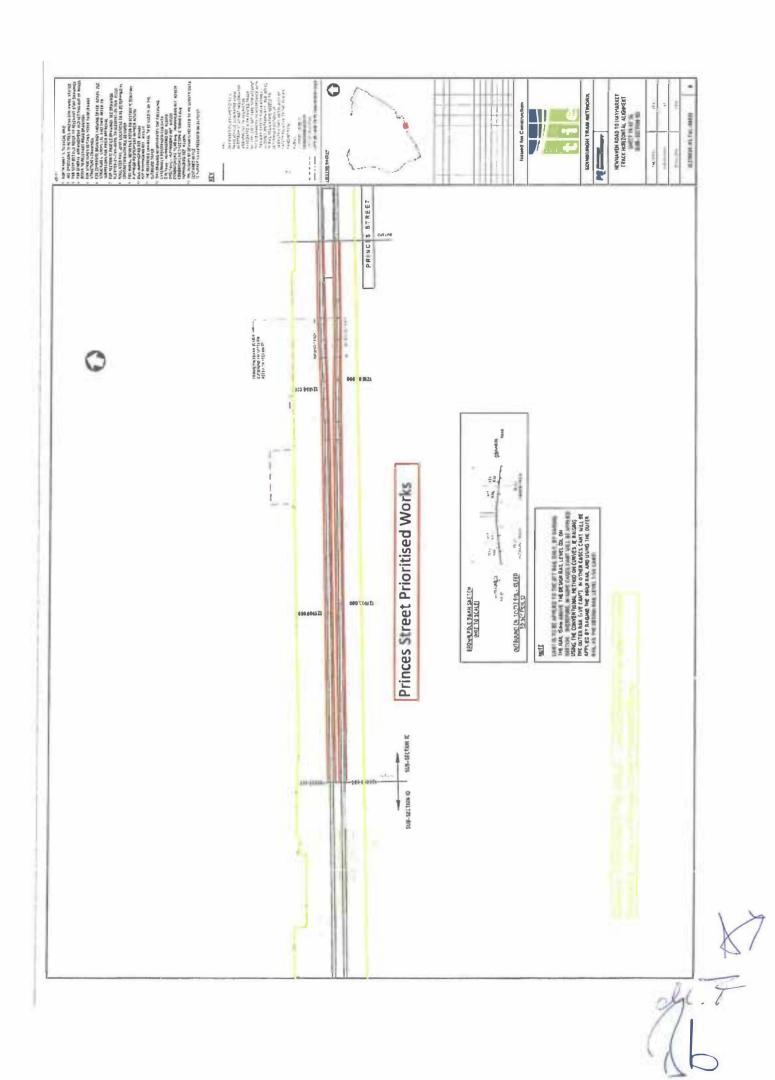
It would be beneficial to take advantage of this closure and execute as much of the outstanding works as is technically feasible. We have not, in the time available, been able to prepare a detailed analysis of the value of the outstanding works, however we have provided an indication, by way of an assessment based on our experience, the value of the outstanding works.

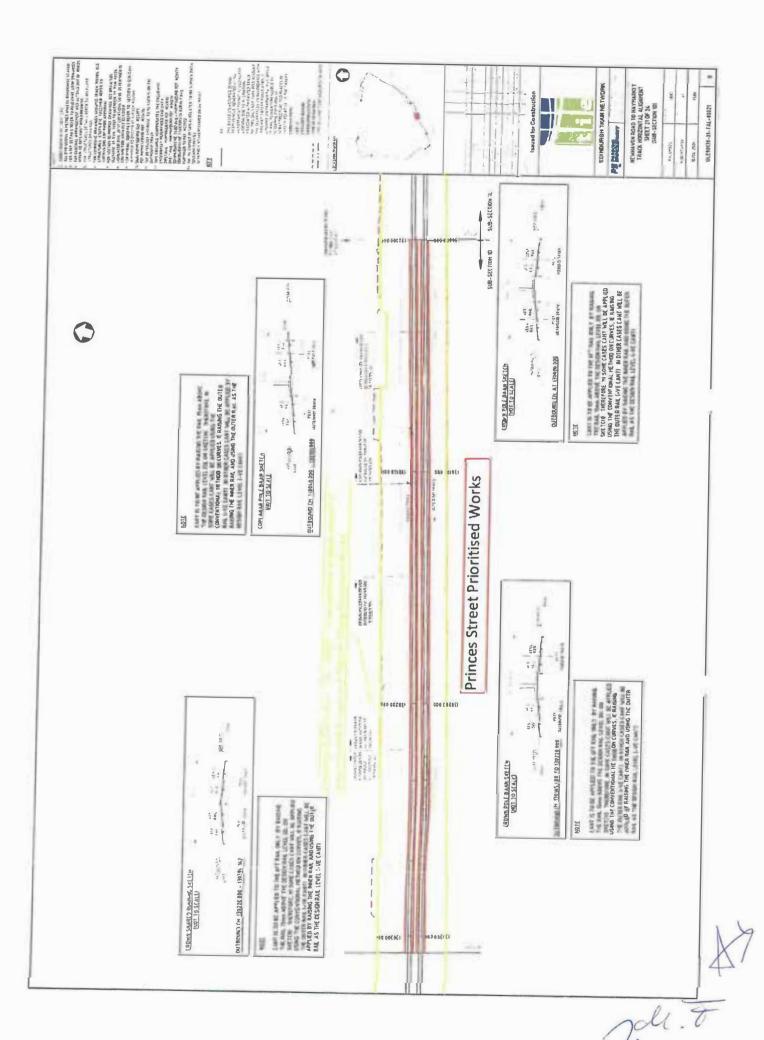
We will work with you to develop this to conclusion to ensure that this element of the work does not prejudice any future mechanism which we will seek to develop and agree for the Target Price as envisaged by the Mar Hall Heads of Terms.

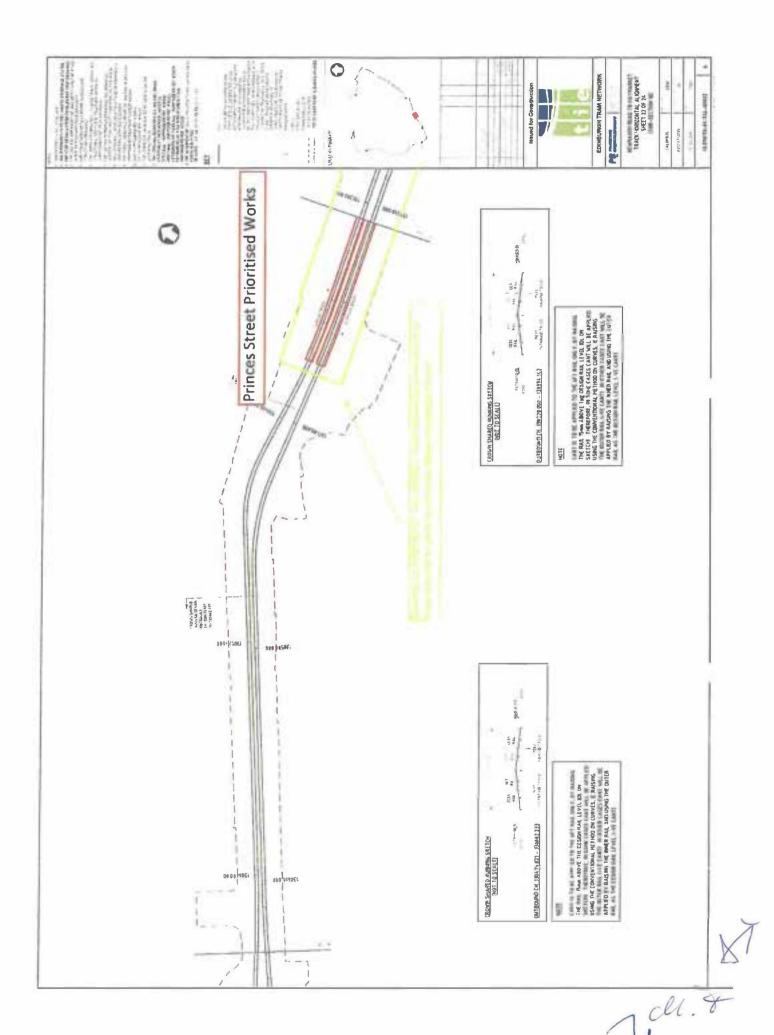
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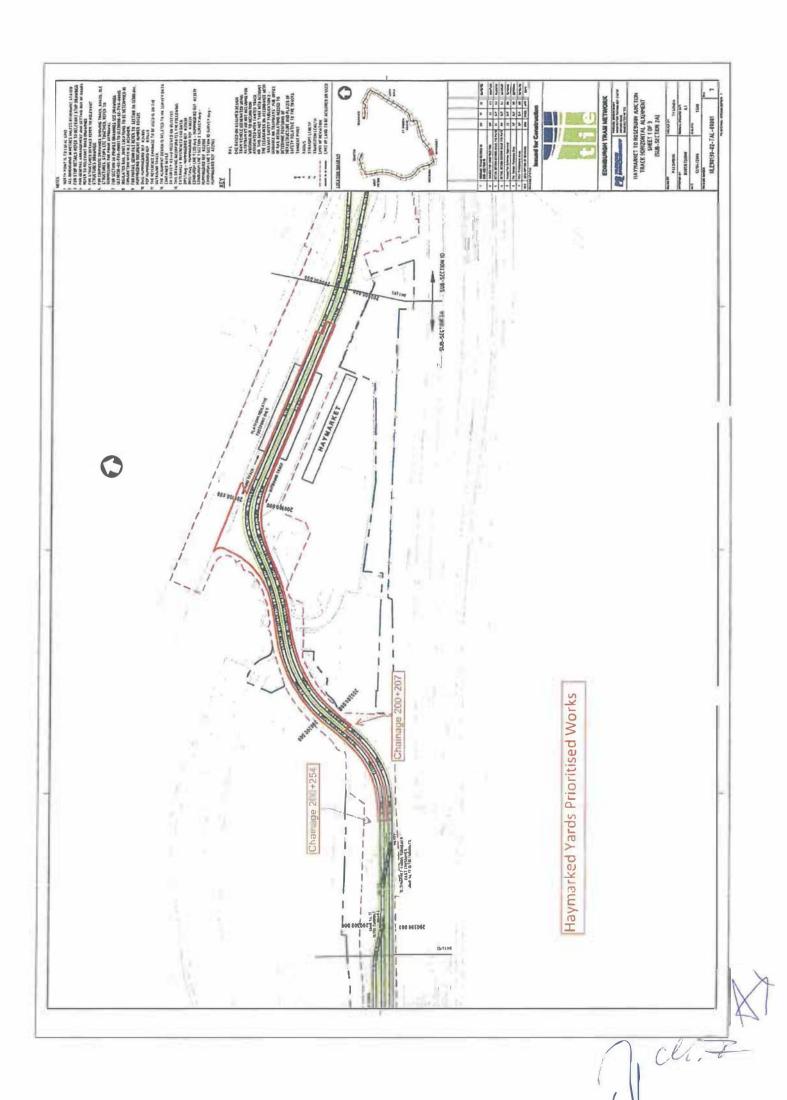


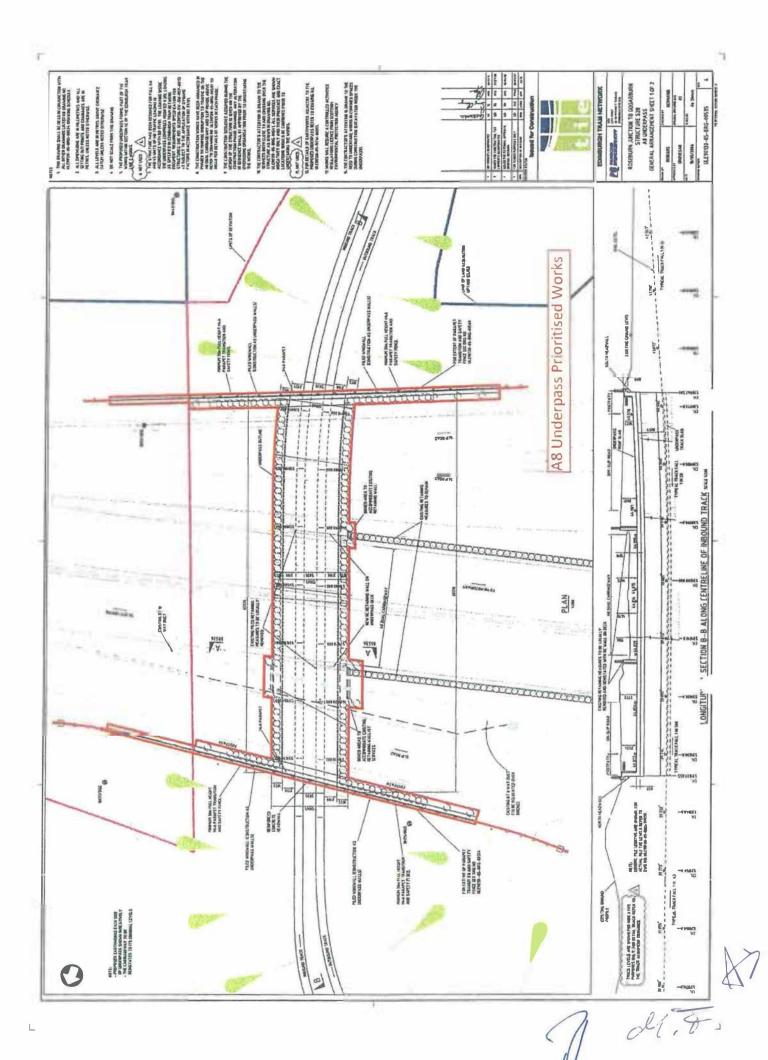




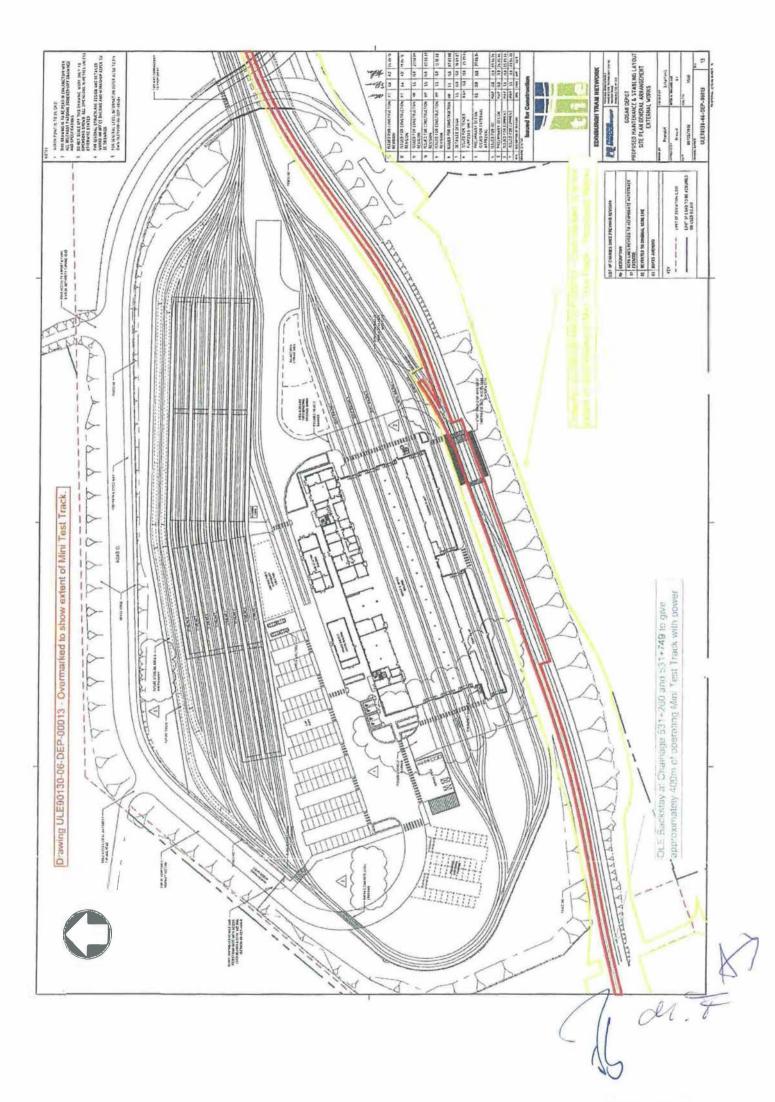


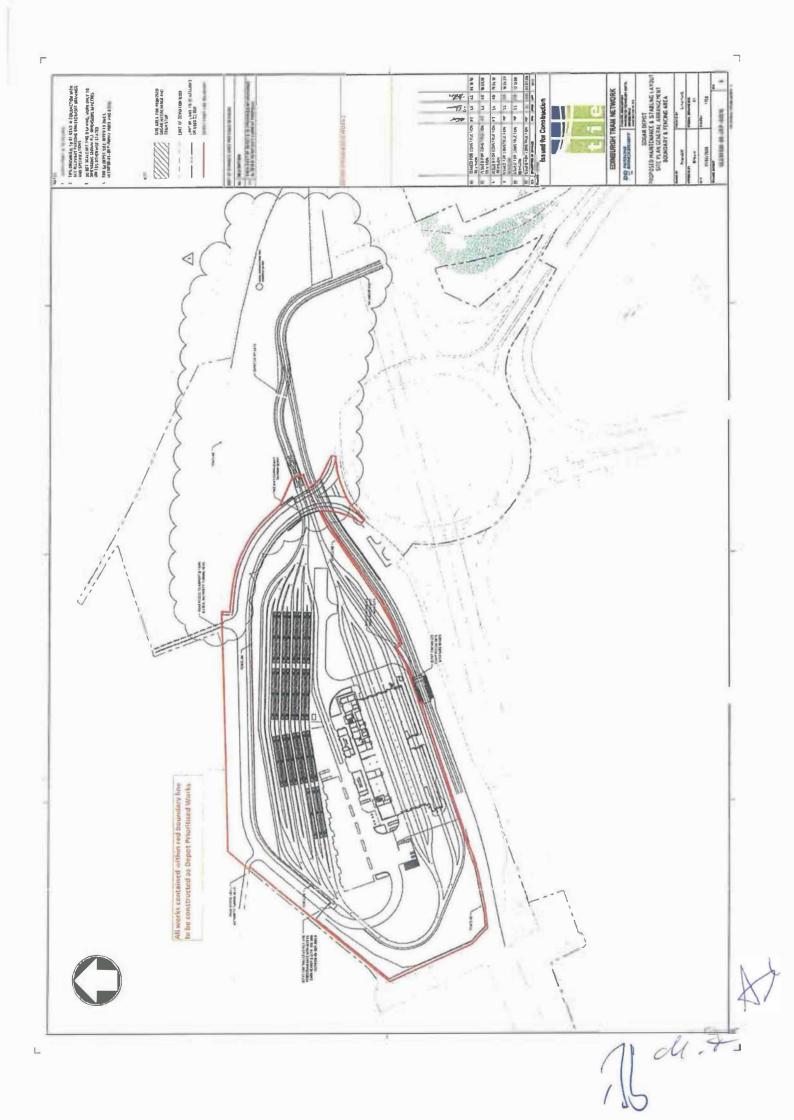












Scheo	lulePart 2 : Priding	of Pri	oritised Wo	rks			Application	42	43	44	45	46	47	48	
							PeriodEnd	31 Mar	26-Apr	28-May	25-Jun	25-ful	20-Aug	17-Sep	
FIXED	SUM PRIORITISED	WOR	KS	7.7			Due Cerbiled	0.9-Agr	03-M By	15-Jun	13-Jul	10-Aug	07-Sep	05-Oct	
mail	Description		Section.	Work Description	Status	Member	O une Pald	21-Apr	17-May	ZI-Jun	27-Jul	24-Aug	21-5-ер	19-00	Tata
1	Prioritised Works	4	Site Wide	Mobilisation (Certs 1 & 2)		BBCUK	12500	7,500	\$,000	300					125
			July 41/108	mannation (care 2 o 4)		Siemens	11,500	7,500	4,000				5		11,5
		2	Site Wide	Materials and Equipment (Certs ) & 3A,8 & C		Siemens	25,000	12,000			4,333	4,333	4,333		25,0
		1	Site Wide	Pretenintries		BBCUK	7,200		1,206	1.200	1,200	1,200	1, 200	1,200	7,20
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	1					BBCUX	1,000	500	500						1,0
			6	Oppot Area : Building	Burg	Stemans	1,601			200	200	40	400	40x	1.60
		-			17 18	BBCUK	2.650		750	750	50C	300	250		2,65
		*	6	Decot Areas : External Works	Cin Hold	Siemens	1,400		200	200	250	250	250	250	3.40
	1		17		-	BBCUK	600			300	200	200			- 100
		10	- 6	Deput Areas : Mini 7est Track	Rollettested	Siemens	1000					250	406	400	1,00
ocaff	or Agreed Priority Wo	riu					70,501	27,50X	12,547	3,834	7,652	7.752	7,952	1,360	10,60
2	Auxilia ry Items		-			BBCUK	105	19	15	15	15	15	25	15	
1	ANAINE CYTCHINS	1	1A	Ongoing Maintenance Works	Ongaing	Semens	103	13	72	12	12	15	25	15	_
- 1		-			1		444	-1		-	-	-	-	-	
- 1		2	54	Additional TestingIn Murrayfield Corridor	Acc Vet Stated	BECUK	110	-	_	ZO	-	90	_	-	231
П		-				Siemens		-		-	-		-	_	
- 1		1	SA	Water of Leith Sewer Linkng Works	Not You Yallated	SBCUK	70	-		-		70	-	-	. 7
- 1						Siernens		-	-	-	-		-	-	
- 1			5A	Demoston of Plots 97/102	Place Tire Selected	BBCUK	100	_	_	-	-	11%		_	- 10
- 1					-	Sierrens		-			-		_		
1		1	5C	A8 Underpass - Ongoing Maintenance Works	O-pair g	BBCUK	525	75	75	75	75	75	75	75	. 44
						Slemens		_		_	_		- 4		
ч	- 1	4	SABEC	Structures Generally Work in Progress	On Harl st	88CUK	3,165		3,155	_	_	-		_	3.16
- 1						Siemens				_					
-1	1		7A	Site C'estance Works(already underwey)	Organe	6BCUK	20	20						_	
-1						Signers		_							
л			Site Wide	Testing for Contamination	Rat het Sport of	BBCUK	29					20			- 2
		10				Siemens									- 0
otal fo	or Ausiliary Works						4,115	110	3,255	110	90	370	90	90	4,115
	of Fland Sarm Prioriting	el Worl	let - *Glueral State	n Prioritised Works Price*			74,732	27.610	15,802	3,944	2,242	8,622	8,042	3,459	74.72

#### TARGET PRICE PRIORITISED WORKS

Item	Description	-33	Section	Work Description	- T		- 1	- 1		. 1		-1		
1	Target Price Works	1.	10/10	Advanced Site Investigation works in Section 3	Not You State &	ввсик	400		100	902	100	1.00		400
		4	TC/ID	Princes Street Outstanding Works		BBCUK	32.0			50	100	100	100	1%
			IC/ID	Princes Street Outstanding World	Mat Yet Marred	Slemens	600			190	:00	2130	200	600
Total f	to Target Price Prioriti	sed Wo	rles - Target	Price Priorisised Works Price			1.350		100	250	300	400	300	L350

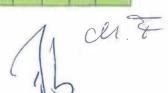
#### SUMMARY: BY WORK DESCRIPTION

++-	Description		Section	Work Description	- 1			-	-	4	4	100	
+	Sommary	1.1		Mobilisation / Meterials & Equipment (Certs 1, 2 & 3AS & C)	49.200	27,000	9,000	4	4,333	4,333	4,333		49,000
		- 2		Priority Works	21 ≅7)	500	3,547	3,834	1,319	3,419	3,619	3,369	21.607
		1.	- 9	Auxiliary Works	-1114	110	3,255	210	90	370	90	90	4,115
		4	1	Target Price Works	1,35	- 0		100	250	300	40G	300	1.350
Epitel-s					78.077	27616	15.007	8,048	2,992	8.422	8.682	1.759	F6.072

#### SUMMARY: BY INFRACO MEMBER

Item	Description		Section	Infraco Merabur	900		V. Mary	- 1		- 17			
1	Summary	1	SW	Billinger Berge Civil UK Limited	11.50R	8, 230	17106	3,150	2,615	2,645	2,175	1,76	nyon
		2	\$W	Slemens pie	44,564	19,500	4,624	894	5,377	5,777	6,327	£994	64,560
femile					76,073	23,610	נפגנו	4,044	7,992	8,422	0,442	1,790	76,077

Note: This table only shows the espenditure of the Prioritised Works up to the 17 September 2011 and does not represent the total value of the Prioritised Works



Schedule Part 2 : Priorit/sed Works Millestone Schedule Period End 11-Mar 26-Apr 24May 25-Jun 25-lui 20-Aug 17-Stp 10-Aug FIXED SUM PRIDRITISED WORKS Office Olster 15to 13-Test 07-5ep Barn Description Section Work Description Aftie stone I goo -Due Pald 21-Apr 17-May 29-Jen 27-lul 24-Aug 21-Sep 19-Oct Tank BECUK 12,500 Sittle Wilde Mobilisation [Certs 1 & 2] 11,500 11.50 7,500 Materials and Equipment (Corts 1 & 3A, 8 & C) 25,000 1,200 4,200 1,200 Feat Sers Microson Wests Milloniano 1 Ste Wide Preliminaries 494 494 494 Stamen 2,964 494 494 2,964 BROK 390 350 Frimmer Street TM /Enabling Works 175 875 173 875 175 ٠ Haymarket Yards 290 250 500 BRITAR 15G 130 150 190 150 AB Underpass - Phase (,1) & IV Works BOX 518 403 518 68 CLIK . Depot Area : Building 1,600 1,400 BBCLK 2,650 750 750 530 300 250 148 Freed Sum Pharetone Warth Millentone . Ocput Areas : External Works 250 250 1,400 BACUK 200 600 200 Slemen 1,000 200 400 400 1,000 ספנו 2,360 70,607 Total for Agreed Priority Works 70,607 27,500 3,634 7,450 7,752 7,952 Auditoryltems 56CUR 105 15 15 10 Fred Sura Priorderal Works Edinburg 1A Orgoing Maintenance Works Stemen 58 CLK 5A Additional Testing in MurrayRe'd Borrido Stamuna BACUK . 5A Water of Leith Sewer Living Works 88CL)K 100 100 BOK r 50 A&Linderpass - Organiz Maintenance Works Siement BBCVK 3 165 5.165 3.153 . Structures Generally Work in Progress SABAC **GRCU**K 7A Site Chearance Works (elementy underway) BBOJK Site Wide Testing for Contamiration Forestor Fixed Sum Prioritized Works - 'Fleed Sech Prioritized Works Prior' 74,722 27,010 15,802 1,940 7,742 8,122 6,012 0.459 20,722 TARGET PRICE PRIDETISED WORKS Advanced Sit e Investigation works in Section 350 2 1600 Princes Street Outstanding Works Siene ens 600 100 700 200 200 600 1,454 Tolaifor Torget Price Prior Plantiand Works - Target Price Prioritized Works Price 4,333 27,000 4,333 4,335 : Priority Works 500 3,547 3,834 3,319 1,415 3.619 3,369 1 Auditary Works 11:0 3,255 110 90 370 90 SUMMARY : BY INFRACO MEMBER

Note: This table only shows the expenditure of the Prioritised Works up to the 17 September 2011 and does not represent the total value of the Prioritised Works

Billinger Berger G vill LR Limited Sharero pic

sw.

SW



2,541

5,777

2,115

6,327 1,534

2.662

11,108

4.694

15,502

2,1904 7,615

694 5,377

7,293

8,110

19,500

76.072

1,765



# PART 3 MATERIALS AND EQUIPMENT

A cli. F

# CEC01731817\_0050

### Schedule Part 3 Materials and Equipment

Siemens Material Location - Inventory

Rev: 15-Apr-2011

Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
OWE	Access locks	Castell Safety	Broxburn. UK	1	set	
DWE	Battery Charging Equipment	HAHN+KOLB Werkzeuge GmbH	Siemens store Bertin	1	set	consists of 2 pleces
DWE	Benches and Equipment	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	15	sets	set consists of bench, vice, tool chart
DWE	Cleaning Machines	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	2	unit	different units
DWE	Compressor station	Kaeser	Broxburn, UK	1	set	
DWE	Earthing equipment for catemary	Siemens	Siemens store Berlin	1	set	
DWE	Electric Double Grinder	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	unit	
DWE	Electrical Hand Tools	HAHN+KOLB Werkzeuge GmbH	Slemens store Berlin	1	set	consits of 13 pieces and accessories
DWE	Electrical measuring devices	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	set	consists of 16 pieces
DWE	Folding machine	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin		unit	
DWE	Hydraulic pan jacks	Abril rait	Broxburn, UK	4	unit	
DWE	Hydraulic Workshop Press	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	unit	
DWE	Ladders and Scaffolds	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	set	
DWE	Lifting plant	Siemens AG	Broxburn, UK	1	unit	vested to CEC 22-Apr-2011
DWE	Macminder	Donfabs & Consilia	Broxburn, UK	1	unit	
DWE	Manual Lever Snips	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	unit	
DWE	Mechanical Hand tools	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	30	set	different sets
DWE	Mechanical Measuring Devices	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin		set	consits of 55 pieces and accessories
DWE	Miniprof Rail System	Bakerall	Broxburn. UK	1	unit	
DWE	Mobile Lifting Equipment	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin		set	consits of 24 pieces and accessories
DWE	Overhead crane	Street Crane	Stockport, UK	1	unit	

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Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
DWE	Pallet stacker	Siemens plc	Broxburn, UK	1	unit	
DWE	Pallet truck	Pfaff-silberblau Verkehrstechnik GmbH & Co. KG	Broxburn, UK	3	unit	in container #2 with lifting plant
DWE	Petrol Generator	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	2	unit	
DWE	Portable Lighting Stands	HAHN+KOLB Werkzeuge GmbH	Stemens store Berlin	10	unit	
DWE	Safety and site protection equipment	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	set	consists of different equipment
DWE	Scottish Voidmeter	Abtus	Broxburn, UK	6	unit	
DWE	Semi Automatic Hacksaw	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	unit	
DWE	Service Vehicle, Bogles and Trailors	G. Zwiehoff GmbH/Zweiweg GmbH	(Lelchlingen, DE	1	set	consists of 10 different units
DWE	Stop boards, clamps	MC Electronic	Broxburn, UK	1	set	
DWE	Sump pumps	T&T Pumps	Broxburn, UK	1	sel	
DWE	Tools for Fibre Glass Works	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	set	
DWE	Tools for Point Machine Maintenance	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	set	consists of different equipment
DWE	Tum Table	Pfaff-silberblau Verkehrstechnik GmbH & Co. KG	Pfaff Enzensfeld DE	1	unit	
DWE	Underfloor wheel lathe	Siemens plc (Hegenscheidt)	Broxburn, UK	1	unit	vested to CEC 22-Apr-2011
DWE	Universal Workshop Lathe	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	unit	
DWE	Washing Plant	Smith Bros & Webb Ltd.	Edinburgh. UK	1	unit	vested to CEC 22-Apr-2011
DWE	Waste containers	HAHN+KOLB Werkzeuge GmbH	Slemens store Berlin	1	set	
DWE	Welding Tools	HAHN+KOLB Werkzeuge GmbH	Siemens store Berlin	1	set	
DWE	Workshop Furniture	HAHN+KOLB Werkzeuge GmbH	Slemens store Berlin		set	tool storage. cupboards, safety cabinets etc
DWE	Workshop Furniture	Sperrin Metal	Broxburn, UK		set	storage equipment
DWE	Workshop Pillar Drilling Machine	HAHN+KOLB Werkzeuge GmbH	Slemens store Berlin		unit	
DWE Total						

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Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
REL	Combined Poles (ttl 372 pcs)	Pfeiffer / Siemens plc	Ortenberg, DE	316	pcs	
REL	Combined Poles (tit 372 pcs)	Pfeiffer / Siemens plc	Broxburn, UK	41	pcs	vested to CEC 22-Apr-2011
REL	Combined Poles (ttl 372 pcs)	Pfelffer / Slemens pic	Section 1 (Princes Street)	15	pcs	
REL	Contact Wire (150mm²) (49.483m)	Isodraht / Siemens plc	Mannheim. DE	31.055	m	
REL	Contact Wire (150mm²) (49.483m)	Siemens AG	Broxburn, UK	18.428	m	vested to CEC 22-Apr-2011
REL	Control Cable (5x2,5mm²) - 700m	Siemens plc	Broxburn, UK	700	m	
REL	Control Cable (12x2,5mm² and 4x1,5mm²)- 700m+	Slemens plc	Broxburn, UK	750	m	
REL	Control Cable (3x4mm²)- 1100m	Siemens plc	Broxburn, UK	1,100	m	
REL	Control Cable (7x2,5mm²)- 52.000m	Siemens plc	Broxburn, UK	52,500	m	vested to CEC 22-Apr-2011
REL	Leitung / Cable N2XCH4x2.5 RE/2,5 0,6/1 kV	Siemens plc	Broxbum, UK	100	m	
REL	Medium Voltage Cable (95mm²) - 600m	Siemens plc	Broxburn, UK	617	m	
REL	Messenger Wire (25,554 m)	Isodraht / Siemens plc	Mannheim, DE	11,193	m	
REL	Messenger Wire (25 554 m)	Slemens AG	Broxburn, UK	14,361	m	vested to CEC 22-Apr-2011
REL	Muttifunctional distribution boards	Siemens plc	Broxburn, UK	7	pcs	
REL	MV Swg Incoming + transformer feeding panel	Siemens AG	Broxburn, UK	9	pcs	vested to CEC 22-Apr-2011
REL	OCL Material (General)	Siemens AG	Broxburn, UK	84,076	kg	vested to CEC 22-Apr-2011
REL	OCL Material Alu Tubes L=8 0m	Siemens plc	Broxburn, UK	9,376	m	vested to CEC 22-Apr-2011
REL	OCL Material Constructions (steel components)	Siemens AG	Broxbum UK	4,399	pcs	vested to CEC 22-Apr-2011
REL	OCL Material Isolators SEFAG	Siemens plc	Broxburn, UK	447	pcs	vested to CEC 22-Apr-2011
REL	Power cable DC (150mm²) - 8.000m+20.600m	Siemens AG	Broxburn, UK	31,835	m	vesled to CEC 22-Apr-2011
REL	Power cable DC (400mm²) - 2.500m	Siemens plc	Broxburn, UK	2,535	m	vesled to CEC 22-Apr-2011
REL	Rectifier Transformer	Siemens AG	Broxburn, UK	9	DCS	vested to CEC 22-Apr-2011

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Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
REL	Stepped Poles / 451 pcs,	Europoles / Siemens plc	Neumarkt, DE	272	pcs	
REL	Stepped Poles / 451 pcs.	Europoles / Slemens pic	Broxburn, UK	25	pcs	vested to CEC 22-Aor-2011
REL	Stepoed Poles / 451 pcs.	Europoles / Siemens plc	Section 7 (FARRANS)	18	pcs	
REL	Stepped Poles / 451 pcs.	Europoles / Siemens plc	Section 6 (Gogar Depot)	85	pcs	
REL	Stepped Poles / 451 pcs.	Europoles / Siemens plc	Section 6 (Gogar Depo <u>t)</u>	51	pcs	
REL	TSS DC Coupling panel (bypass)	Slemens AG	Broxburn, UK	8	pcs	vested to CEC 22-Apr-2011
REL	TSS DC Disconnector panel	Siemens AG	Broxburn, UK	8	pcs	vested to CEC 22-Apr-2011
REL	TSS DC REC Incoming & return cubicle	Slemens AG	Broxburn, UK	9	pcs	vested to CEC 22-Apr-2011
REL	TSS DC Rectifier	Siemens AG	Broxburn, UK	9	pcs	vested to CEC 22-Apr-2011
REL	TSS DC SCD	Siemens AG	Broxburn, UK	8	рсз	vested to CEC 22-Apr-2011
REL	TSS DC Track feeder panel cubicle (+depot)	Siemens AG	Broxburn, UK	19	pcs	vested to CEC 22-Apr-2011
REL Total						
SIG	Control centre hardware (computer, monitors, swite	Siemens AG	Broxburn, UK	1	pcs	
SIG	Control centre hardware (VICOS ATT, VICOS Arch	Siemens plc	Ashby-de-la-Zouch, UK	1	Set	whole system (includes several PCs and other equipment
SIG	Data Manager	IVU	Aachen, DE	1	pcs	
SIG	IMU boxes	Siemens plc	Broxburn, UK	220	pcs	vested to CEC 22-Aor-2011
SIG	IMU100 Antennas / Loops	Siemens pic	Broxburn, UK	230	pcs	vested toCEC 22-Apr-2011
SIG	IMU100 onboard equipment	CAF	Irun, ES	27	one per train	
SIG	IMU100 Receiver CPU850 (16 pcs)	Slemens plc	Ashby-de-la-Zouch, Ul	21	locs	
SIG	IMU100 Receiver CPU850 (25 pcs)	Siemens AG	Braunschweig, DE	24	jpcs	
SIG	Interlocking Airport, New Haven, Ocean Terminal	Siemens AG	Broxburn, UK	3	pcs	vested to CEC 22-Apr-2011
SIG	Interlocking S7 Depot East, Depot West	Slemens AG	Broxburn, UK	2	pcs	vested to CEC 22-Apr-2011

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Siemens plc Mobility Complete Transportation Edinburgh Tram Network Axel Eickhorn

Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
SIG	Interlocking S7 Haymarkel	Siemens AG	Broxburn, UK	1	pcs	vested to CEC 22-Apr-2011
SIG	Multicore signalling cable	Siemens plc		1	lot	
SIG	Panasonic Wide Screen Display 103	Barco	Gogar Tram Depot Ed	1	pcs	
SIG	Point blocking circuits (PBC)	Siemens AG	Broxburn, UK	50	pcs	vested to CEC 22-Apr-2011
SIG	Point healing control	Siemens AG		6	pcs	
SIG	Radio equipment for 27 trams	CAF	Irun, ES	27	one per train	
SIG	TPDS onboard computer	CAF	Irun, ES	27	one per train	
SIG	Wifi equipment	IVU	Broxburn UK	1	set	
SIG Total						
SIG/COM	Antenna	Siemens plc	Broxburn, UK	1	pcs	vested to CEC 22-Apr-2011
SIG/COM	Battery Circuit Breakers	Siemens <u>p</u> lc	Broxburn, UK	7	pcs	vested to CEC 22-Apr-2011
SIG/COM	Battery Circuit Breakers	Siemens plc	Section 6A (Gogar Depot)		pcs	
SIG/COM	Cable for point heaters	Siemens plc	Broxburn, UK		lot	
SIG/COM	Coaxial cable	Siemens plc	Broxburn, UK	1	lot	vested to CEC 22-Apr-2011
SIG/COM	Control centre UPS	Siemens plc	Section 6A (Gogar Depot)	1	pcs	
SIG/COM	Depot PABX	Siemens plc	Section 6A (Gogar Depot)		lot	
SIG/COM	Depot PABX (telephones only)	Siemens plc	Broxburn, UK		lot	vested to CEC 22-Apr-2011
SIG/COM	Fibre Optic Cable	Siemens ptc	Broxburn, UK		lot	vested to CEC 22-Apr-2011
SIG/COM	Mechanical Points Indicator	DTS	Chesterfield UK		lot	
SIG/COM	Multicore signalling cable	Siemens plc	Broxburn, UK		lot	vested to CEC 22-Apr-2011
SIG/COM	NAL boxes	Siemens plc	Broxbum, UK	10	pcs	
SIG/COM	OLE isolation cabinets	Siemens plc	Broxburn_UK		7 pcs	vested to CEC 22-Apr-2011

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Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
SIG/COM	Point Heaters	Siemens plc	Broxbum, UK	16	pcs	vested to CEC 22-Apr-2011
SIG/COM	Point Machines	Siemens pic	Broxburn UK	60	pcs	vested to CEC 22-Apr-2011
SIG/COM	Point Machines (61 pcs)	Siemens plc	Section 6A (Gogar Depot)	1	pcs	
SIG/COM	Radio base station equipment racks	Siemens plc	Ashby-de-la-Zouch, UK	1	pcs	
SIG/COM	Radio base station equipment racks	Siemens plc	Broxbum, UK	3	pcs	vested to CEC 22-Apr-2011
SIG/COM	Radio base station UPS racks ( 3 off)	Siemens plc	Broxburn, UK	3	DCS	vested to CEC 22-Apr-2011
SIG/COM	Radio equipment for 27 trams	CAF	Irun. ES	27	DCS	
SIG/COM	Radio Masts	Tait Europe Ltd	Huntingdon, UK	4	DCS	
SIG/COM	Radio system - Hand Helds plus chargers plus veh	Tait Europe Ltd	Broxburn, UK	1	lot	vested to CEC 22-Apr-2011
SIG/COM	Radio system - Control rack	Tait Europe Ltd	Ashby-de-la-Zouch, UK	1	lot	
SIG/COM	Radio system - 2 hand held radios Incl. batteries ar	Tait Europe Ltd / CAF	Irun, ES	1	lot	
SIG/COM	Speaker cable	Siemens plc	Broxburn, UK	1	lot	
SIG/COM	Substation chargers (8 pcs)	Siemens plc (7 off Broxburn, 1 off Gogar Depot Substation)	Broxburn, UK	7	pcs	vested to CEC 22-Agr-2011
SIG/COM	Substation chargers (8 pcs)	Siemens plc (7 off Broxburn, 1 off Gogar Depot Substation)	Section 6A (Gogar Depot)	1	ipcs	
SIG/COM	Substation comms racks (8 pcs)	Ashby & 1 off Gogar Depot Substation)	Broxburn, UK	7	pcs	vested to CEC 22-Apr-2011
SIG/COM	Substation comms racks (8 pcs)	Ashby & 1 off Gogar Depot Substation)	Section 6A (Gogar Depot)	1	pcs	
SIG/COM	Tramstop equipment cabinet (23 off)	Siemens plc (4 off Broxburn, 19 off Ashby)	UK	18	pcs	
SIG/COM	Tramstop equipment cabinet (23 off)	Slemens ptc (4 off Broxburn, 19 off Ashby)	Broxburn, UK		pcs	vested to CEC 22-Apr-2011
SIG/COM	Tramstop equipment cable	Siemens plc	Broxburn, UK	1	lot	
SIG/COM	Tramstop local power cable	Siemens plc	Broxburn, UK		lot	vested to CEC 22-Apr-2011
SIG/COM T	otal					
SIG/SCA	CCTV Equipment - Cameras, Matrix, Storage, etc	Siemens plc	Ashby-de-la-Zouch, UK		lot	

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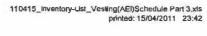


Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
SIG/SCA	Depot Comms Equipment Cabinets (5 pcs)	Siemens plc	Ashby-de-la-Zouch,	5	pcs	
SIG/SCA	Maintenance Workstation (2 pcs)	Siemens pic	Ashby-de-la-Zouch, UK	- 0		
SIG/SCA	ODN Hardware Equipment	Siemens plc	Ashby-de-la-Zouch, UK		DCS	
			Ashby-de-la-Zouch,	0	lot	
SIG/SCA	Operator Workstations (3 pcs)	Siemens plc	UK Ashby-de-la-Zouch,		pcs	-
SIG/SCA	PA Induction Loop (35 pcs)	Siemens ptc	UK Ashby-de-la-Zouch,	35	pcs	
SIG/SCA	PA Tramstop Equipment	Siemens plc	UK	23	DCS	
SIG/SCA	Passenger Help Points (35 pcs)	Commend	Ashby-de-la-Zouch,	35	pcs	
SIG/SCA	Passenger information displays (PID) (3 pcs)	Siemens plc	UK	3	pcs	
SIG/SCA	Passenger information displays (PID) (42 pcs)	Siemens plc	Broxburn UK	42	DCS	vested to CEC 22-Apr-2011
SIG/SCA	PID pole prototypes	Siemens plc	Broxburn, UK	- 2	pcs	
SIG/SCA	Speakers (Tramstop platform) (278 pcs)	Penton		278	ncs	
SIG/SCA	Speakers (Tramstop shelters) (84 pcs)	Penton		84	pcs	
SIG/SCA	Tramstop SCADA Equipment	Siemens plc	Ashby-de-la-Zouch, UK	23	pcs	
SIG/SCAT	otal					
TRW	ACO-drain every 60 meter in embedded track -	P BAM Rail	South Yards, Edinburgh, UK	117	DCS	
TRW	Ballast Sleepers - Pos. 200170	BAM Rall	Facility, Edinburgh, UK	990	locs	
TRW	Ballast Sleepers - Pos. 200170	BAM Rail	Section 6 Gogar Depot Edinburgh, UK	4.089	pcs	
TRW	Ballast Sleepers - Pos. 200170	BAM Rall	Busway, Edinburgh, UK	455	locs	
TRW	Ballast Sleepers - Pos. 200170	BAM Rait	Edinburgh Park Bridge site Edinburgh UK	4,093	pcs	
TRW	Ballast Sleepers - Pos. 200170	BAM Rail	Section 7, Edinburgh, UK	1,441	locs	

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Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
TRW	Ballast Sleepers - Pos. 200170	BAM Rail	Gordon Bow Storage Facility	90]	pcs	
TRW	Flat Bottom Ralls (standard) - Pos. 200020	BAM Rail	Facility, EdInburgh, UK	7.884	m	
TRW	Flat Bottom Rails (standard) - Pos. 200020	BAM Rail	Section 6 Gogar Depot Edinburgh, Uk	3,096	m	
TRW	Flat Bottom Rails (standard) - Pos. 200020	BAM Rail	Edinburgh Park Bridge Site, Edinburgh, UK	8 604	m	
TRW	Flat Bottom Rails (standard) - Pos. 200020	BAM Rail	Section 7, Edinburgh	4,986	m	
TRW	Flat Bottom Ralls (standard) - Pos. 200020	BAM Rail	currently in transit (acc. to BAM)	14 670	m	
TRW	Grooved Rails - Pos. 200030	BAM Rail	Facility, Edinburgh, UK Section 6 Gogar	17,010	m	
TRW	Grooved Ralls - Pos. 200030	BAM Rail	Depot, Edinburgh, Uk Edinburgh Park Bridge	144	m	
TRW	Grooved Ralls - Pos. 200030	BAM Rall	site, Edinburgh, UK	612	m	
TRW	Grooved Rails - Pos. 200030	BAM Rall	(acc. to BAM) Facility, Edinburgh,	1,292	m	
TRW	Rail Fastenings for plinth track - Pos.200140	BAM Rail	UK currently in transit	6,766	pcs	
TRW	Rail Fastenings for plinth track - Pos.200140	BAM Rail	(acc. to BAM) South Yards,	9,701	pcs	
TRW	Small material	BAM Rail	Edinburgh, UK Facility, Edinburgh,	1	lump sum	
TRW		BAM Rail	UK Edinburgh Park Bridge	2,705		
TRW	Specific Material for Grass Track - Pos. 200250	BAM Rail	site, Edinburgh, UK Facility, Edinburgh,	244		
TRW TRW	Specific Material for embedded track - Pos. 20023  Transitionrails - Pos. 200290	BAM Rall	UK Facility, Edinburgh, UK	5,476 17	sets	
TRW	Transitionrails - Pos. 200290	BAM Rail	Section 6 Gogar Depot, Edinburgh, Uk	8	sets	
TRW	Transitionrails - Pos. 200290	BAM Rail	currently in transit (acc. to BAM)	2	sets	
TRW	Turnouts (depot) acc. to alignment drawings - Pos	BAM Rail	Section 6 Gogar Depot, Edinburgh, Uk	8	pcs	
TRW	Turnouts (depot) acc. to alignment drawings - Pos	BAM Rall	currently in transit (acc. to BAM)	9	lpcs	
TRW	Turnouts (main-line) - Pos. 200040	BAM Rall	Facility, Edinburgh, UK	0	pcs	

Siemens pic Mobility Complete Transportation Edinburgh Tram Network Axel Eickhorn



Subgroup	Material	Supplier	Current Storage Location	Qty	Unit	General Remark
TRW	Turnouts (main-line) - Pos. 200040	BAM Rail	currently in transit (acc. to BAM)	21	pcs	

Siemens pic Mobility Complete Transportation Edinburgh Tram Network Axel Eickhorn

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PART 4

**NOT USED** 

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# PART 5 OUTSTANDING CONSENTS

John St. F.

#### **Suzanne Smith**

Andy Conway [Andy.Conway@edinburgh.gov.uk]
05 April 2011 17:21
Sue Bruce (Chief Executive); Dave Anderson From:

Sent:

To:

Colin Smith; Bob McCafferty; Ritchie Somerville; Marshall Poulton Cc:

Tram - CEC Approvals Subject:

Sue/Dave,

A further tram update.

We have continued to review the lighting, tram stops and roads design today and I have updated the outstanding technical approval comments table. We are now down to 85 outstanding comments remaining.

I have started to draft my consolidated report for all the approvals and consents and I intend to issue that by close of business tomorrow.

We have also received and approved out first Planning Variation submission (Planning gave formal approval for the A8 underpass in 16 hours) - that was a great turnaround achievement and if the rest follow that pattern then we should easily conclude the remaining 32 by 30 April (18 of them being between the Airport and York Place).

Date	Open Technical Approval Comments	Open Technical Approval Comments %	Closed Technical Approval Comments	Closed Technical Approval Comments %
24-Mar-11	2782	31.3	6099	68.7
25-Mar-11	2736	30.8	6145	69.2
26-Mar-11	2531	28.5	6350	71.5
27-Mar-11	2133	24.0	6748	76.0
28-Mar-11	1648	18.6	7233	81.4
29-Mar-11	1639	18.5	7242	81.5
30-Mar-11	1568	17.7	7313	82.3
31-Mar-11	1431	16.1	7450	83.9
01-April -11	1258	14.0	7723	86.0
02-April -11	394	4.4	8487	95.6
04-April-11	278	3.1	8603	96.9
05-April -11	85	1.0	8796	99.0

#### Regards

#### Andy Conway

Tram Co-ordination Manager/ City of Edinburgh Council Level 2 / Citypoint / 65 Haymarket Terrace / Edinburgh / EH12 5HD Mobile: 07825 823 289 Citypoint (Ite): 0131 623 8803 / City Chambers: 0131 469 3785 andy conway@edinbulish gov.uk

From time to time we like to check on the quality of the responses we are providing. We would like to know your views on the response you have just received. By clicking on this link http://www.edinburgh.gov.uk/CEC/CltvDevelopment/CustomerFeedbackForm/Form.html and completing the feedback form you will be helping us to learn what we need to do better.



#### **Design Issues**

#### 1. Timelines for close out of design

The intention by 08 April 2011 was to show significant progress towards completion of design. CEC and Infraco believe this has been achieved. Deadline for completion of design is the end of April 2011. This excludes the items outlined below in Section 2 of this report. The exemptions are predominantly design changes or linked to design changes.

Refer attached Design Status Summary for breakdown of progress.

#### 2. Design that will not be closed out by 30 April 2011

- i) Edinburgh Gateway
- ii) Picardy Place / Section 1C2 Roads Approval (& Planning Variation for this batch)
- iii) St Andrew Square Public Realm design works (CEC)
- iv) Airport Canopy & Kiosk
- v) Roseburn Viaduct
- vi) Murrayfield RWs (S21 B D) Ground Improvement Works
- vii) Floating Track slab design
- viii) York Place Terminal Point
- ix) Cathedral Lane Substation "original" Design
- x) Close out of final signalling works
- xi) Wall Mounted Lighting (CEC / Infraco)
- xii) Lindsay Road Cycle paths
- xiii) Forth Ports Fencing requirements
- xiv) Forth Ports Cruise Liner Terminal Road (Full Planning Approval required)
- xv) W14C SEPA CAR Licence Approval
- xvi) A number of Planning Variations (statutory process only)
- xvii) Final IDCs and Design Assurance Statements (DAS)

#### 3. Design that will not be closed out by 01 July 2011

- i) Edinburgh Gateway
- ii) York Place Terminal Point design
- iii) Final IDC and DAS

#### 4. Traffic Modelling

CEC have accepted that SDS has done "all they can within the constraint of the LOD". Direction required from CEC as to whether Traffic Modelling can be approved as it stands or whether additional works are required outwith LOD prior to approval being granted (in which case, Approvals by end of April 2011 may not achievable). This applies to approximately five or six junctions within on-street section and impacts on signalling design.

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Traffic Modelling still not signed off. This is impacting on Siemens ability to complete Traffic Light Control Design. Final "tweaks" to traffic modelling are required to achieve CEC sign off. This will also have implications on Roads design. It should be noted that this impacts on-street section only. SDS are reviewing programme for close out.

The history of the separate contract between tie, CEC and Siemens Traffic (to which Infraco was not party) is being reviewed against ERs.

#### 5. TNC 129 Gogar Castle Access Road

New TNC issued by tie – letter INF CORR 7510/DB dated 11 March 2011. Redesign of road required to avoid land take issue (land not procured by tie). This impacts on "mini test track" and will require CEC Technical Approval. The scope of this change was unknown prior to issue of letter by tie.

Instruction required from tie.

#### 6. TNC 130 Depot Access Road, Hammer Head

New TNC issued by tie—letter INF CORR 7508/DB dated 11 March 2011. Detailed design and CEC Technical Approval will be required. This potentially impacts on final Approvals for the Depot Access Road. The scope was unknown prior to issue of letter by tie.

Instruction required from tie.

#### 7. Role of tie

tie are sitting in on Infraco / SDS / CEC meetings. Limited if any contribution to meetings. No role for tie moving forwards with close out of design.

Infraco concerned about scope creep by tie (e.g. Roseburn Viaduct, Edinburgh Park Viaduct North Abutment, Airport Canopy / Kiosk). tie representatives do not appear to have been briefed on the new way of working.

#### 8. Forth Ports - Tower Place Bridge - Ramp Issue

CEC have confirmed steps solution will be acceptable; although CEC Structures raised concern with this proposal. Infraco are progressing design solution; however, it is unlikely that the steps solution will remove all loading from dock wall which may not be acceptable to Forth Ports.

Infraco and CEC are meeting with Forth Ports w/c 18 April 2011 to discuss this and other design issues related to Forth Ports.

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Page 2 of 9

#### 9. Forth Ports (FP) Licence – Approvals and Access Issue

From a FP perspective they would only like one more closure with all the work scope completed in it to cause minimum disruption.

CEC - FP Agreement is not legally binding. CEC recognise there are issues with FP that may impact on CEC / tie ability to secure FP third party consent (i.e. Section 1A Drainage approval, steps at Tower Place Bridge, additional fencing requirements)

#### 10. Design Assurance Statements (DAS)

Infraco have invited CEC to attend upcoming IDR/IDC meetings to give them comfort in this process. DAS Presentation issued to CEC.

#### 11. Scottish Water (SW) Approvals issues

Approvals issued by SW since October 2010 have a limited 6 month approval period (i.e. the approval lapses after 6 months and the drainage design needs to be resubmitted to SW every six months). Infraco's position is that this 6 month approval period is unreasonable particularly for on-street sections where there is no net increase to the SW network. This has been raised to tie; however, tie has stated this is Infraco's issue to resolve with SW.

CEC should note that this will impact on the Design and Approvals between SAS and NEW.

Infraco are awaiting response from SW in regard to a proposed meeting to discuss and resolve 6 month approval issue.

#### 12. PSCC and ICP Liaison meetings

Confirmed and agreed that management of the ICP is to remain with tie. Role of PSCC meeting has been reviewed by tie following Infraco request, tie survey results have been issued; however, no conclusion provided as yet.

#### 13. Scope of Works for York Place Terminal Point

It was confirmed on 22 March 2011 that Terminal Point will be York Place Cross over. Concept design options were issued to CEC on 07 April 2011 for consideration.

Agreement on selected option to be agreed between CEC and TEL with appropriate instruction issued to Infraco. Budget design costs range - £140,000 to £280,000 depending KJ Se.F on option selected.

Instruction required from tie.

#### 14. Cathedral Lane Substation

Infraco will progress the original Cathedral Lane Substation Design (based on conversion of existing toilet block). Should the Henderson Global development proceed, a change order would be required.

Instruction required from tie.

#### 15. Additional Cycle path at Lindsay Road - Hawthornvale

This additional design was introduced by CEC at meeting on 29 March 2011. CEC are to issue the scope of works to Infraco. Infraco will progress design but this was not considered within Phoenix and Infraco require change order from tie.

Instruction required from tie.

#### 16. OLE Foundation - Utility Conflict at Princes St

Building fixing option for two of the three poles; however third pole cannot be a building fixing. tie may need to divert or slew the utilities to accommodate this pole, so it would make sense to divert / slew the utilities for all three poles and avoid Listed Building Consent.

Infraco agreed to submit briefing note on issue to CEC for consideration.

#### 17. SEPA W14C CAR Licence

SEPA confirmed on 29 March 2011 that flooding issue resolved and that SEPA had sufficient information to progress derogation and licence application. This is due end of May 2011 (statutory period).

SEPA advised verbally on 12 April 2011 that other issues will impact the processing of the CAR Licence. Issue of Licence by end of April is now unlikely.

#### 18. W18 - LOD issue

Issue with W18 Retaining Wall and LOD is to be resolved. CEC propose to move W18 by 300mm to avoid any LOD issue. Infraco to undertake redesign works.

Confirmed by CEC that there is no LOD issue at Retaining Wall W4 (PO Sorting Office)

#### 19. 250mm main connection (for Depot Water Supply)

Infraco understand tie will complete 250 mm main works by 20 May 2011.

Page 4 of 9

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#### 20. Forth Ports / Section 1A Design Issues

Separate Section 1A Design meeting identified 15 items (all known about however scope / status of some issues not known) that need to be resolved. New design changes identified and outlined below.

tie / CEC to confirm Forth Ports Approval for Section 1A drainage.

#### 21. Section 1A - Ocean Drive - New Footpath

New footpath required along Ocean Drive. Instruction required from tie.

#### 22. Section 1A - Ocean Terminal Bypass Road

New design has been developed by AECOM for tie. CEC expressed desire at meeting on 01 April 2011 for this to be integrated into Infraco design.

Instruction required from tie.

#### 23. Section 1A - Lindsay Road 0 - 230m Road Alignment Redesign

The full scope of works issued under TNC may not be feasible. Discussions between Infraco and CEC are ongoing to determine the feasibility.

#### 24. Roseburn Viaduct

tie to issue letter to confirm scope of works agreed between CEC and Infraco on 16 March 2011.

#### 25. Tram Stops

Tram Working Group presentation held 06 April 2011. No significant objections resulting in impact on submission or consents. IFCs are being issued w/c 11 April 2011 to close out Informatives. Technical Informatives are to be closed first with Planning Informatives to follow the close out of other non Tram Stop Technical design issues.

Design based on branding details as agreed with tie, TEL and CEC. Should branding change, a change order would be required.

tie to issue letter to confirm no lettering on top of shelters.

#### 26. "mini" Test Track

Instruction to be issued by tie for design of temporary Overhead Catenary System

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#### 27. Traffic Regulation Orders (TROs)

2 No TRO changes proposed by CEC that may impact design at Picardy Place (Blenheim Place) and Shandwick Place (Canning Street). Infraco / CEC workshop to be held; however, this may require further instructions for any design changes.

#### 28. Trackform - Setted Areas

Clarification required on whether setted areas are still required.

#### 29. Cessation of Audits

Intention is that no more Audits are scheduled before July 2011. tie to review Audit Schedule and confirm.

#### 30. SRU / Murrayfield Accommodation Works

Infraco carried out design works for tie; who, separate to Infraco Contract, completed the construction works. A number of issues are to be resolved with tie (Form Q, as-builts and tie request for Collateral Warranty to be signed by SDS).

Page 6 of 9

#### **Outstanding Consents**

#### 1. CEC Planning

- i) Access Road at Ocean Terminal to be submitted
- ii) Listed Building Consent for 4 Dublin Street to be submitted
- iii) Roseburn Viaduct Prior Approval to be submitted
- iv) Planning Variations including OLE positions. 13 of 36 planning batches approved to date. Remainder are split as follows: 1 relate to Priority Works; 8 off street; and 14 on street.
- v) Planning Informatives to be submitted
- vi) Trackform colour and finish of concrete to be agreed with CEC Planning. Sample for inspection to be prepared by 14 April 2011.
- vii) Tram Stop Informatives Submission of agreed planning drawings required to close
- viii) Colours of systems equipment (cabinets etc) to be finalised
- ix) Points position indicators locations to be submitted

#### 2. CEC Technical (Roads) - to be submitted

- Section 1D Grosvenor Street (amendment due to TRO) OLE and Roads design issues being progressed.
- ii) Picardy Place design progressing based on scope of works issued by tie that excludes any Henderson Global development.
- iii) Technical Informatives remainder to be submitted and closed
- iv) Critical Comments 45 of 46 have been closed (98%)
- Trackform CEC have issued Approval in Principle for trackform design. Design Statement and Drawings to be submitted to CEC for Approval. Anticipated date for formal submission 20/4/11.
- vi) Overall tram and traffic signalling strategy impacted on by Traffic Modelling (refer Item 4 of Design Issues)
- vii) Junction 91 (Sect 2A) issue to be finalised operator inputs required to resolve
- viii) Signalling and ducting details to be submitted to close Informatives
- ix) High Level Control (following on from Traffic Modelling close out)

#### 3. CEC Technical (Roads) - submissions with or in discussion with CEC

- Traffic Modelling some "tweaks" to modelling required to close out. Impact on roads design to be assessed.
- ii) Close out of submitted Technical Informatives
- iii) Close out of Earthing & Bonding Informative
- iv) CEC to provide info on existing comms links for CCTV to permit design to be finalised
- v) CEC / TEL to provide data/protocols for Bus Tracker

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#### 4. CEC Technical (Structures)

- i) Murrayfield Retaining Walls S21B D Ground Improvement Works to be submitted.
- ii) Edinburgh Gateway Retaining Wall to be submitted
- iii) Review of Roseburn Viaduct (cladding around abutments)
- iv) Tower Place Bridge Steps in place of ramp to be submitted

#### 5. CEC Building Control

- Edinburgh Gateway Tram Stop Building Warrant Infraco to respond to CEC comments
- ii) Edinburgh Airport Kiosk and Canopy Building Warrant tie provided final scope of works on 24 March 2011. SDS progressing design for Building Warrant.

#### 6. Scottish Water

- i) Edinburgh Gateway 1525 sewer diversion and interface with Retaining Wall
- ii) Standard Connection Details to be approved submitted to SW 22 November 2010
- Depot Water connection Infraco require 250 mm main connection by tie to be completed.
- iv) Six month time limit on Approvals process to manage this requirement to be agreed between CEC, SW and Infraco.

#### 7. SEPA

i) W14C - CAR Licence - with SEPA for approval.

#### 8. Third Party Approvals

- i) Consents and requirements required for 4 PIDs located outside LOD (BAA approval etc) – Infraco proposal submitted to tie. tie / CEC to advise.
- ii) TEL/CEC to respond on use of existing fibre links strategic decision required
- iii) Forth Ports Licence issues CEC / tie to advise

#### 9. Forth Ports

- i) Section 1A Drainage tie to issue Forth Ports Approval to Infraco
- ii) Forth Ports Fencing requirements scope to be agreed with CEC and FP w/c 18 April
- iii) Ocean Terminal Tram Stop Finishes, Lighting etc to be agreed with FP

#### 10. Network Rail

i) Edinburgh Gateway – Retaining Wall - preferred design option to be advised by tie / Transport Scotland following meeting on 21 March 2010. Confirmation from NWR still required. Decision now expected 15 April 2011 (likely to be delayed).

Page 9 of 9

# PART 6 VESTING CERTIFICATE

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#### CERTIFICATE OF VESTING OF MATERIALS

This Certificate is for the benefit of City of Edinburgh Council, constituted in terms of the Local Government etc. (Scotland) Act 1994 and having its principal offices at City Chambers, High Street, Edinburgh, Midlothian, EH1 1YJ ("CEC") and relates to the vesting of the Materials and Parts described in Schedule 1 hereto attached.

We Siemens plc of Faraday House, Sir William Siemens Square, Frimley, Camberley, GUI16 8QD, England, in consideration of tie's payment to Infraco under the Infraco Contract as varied by the Minute of Variation between tie, Bilfinger Berger Civil UK Limited, Siemens plc and Construcciones Y Auxiliar de Ferrocarriles S.A. dated [15 April 2011] (the "Minute of Variation") to Siemens of the sum of [INSERT AMOUNT PAYABLE TO SIEMENS IN RESPECT OF RELEVANT CERTIFICATE] (£ INSERT VALUE (exclusive of VAT) on or before [INSERT DATE] in respect of the Materials and Parts, hereby warrant and undertake to CEC that:-

- 1 the Materials and Parts listed in Schedule 1 are supplied pursuant to the Minute of Variation:
- 2 nothing remains to be done to the Materials or Parts to complete the same up to the point of their incorporation in (i) the Prioritised Works pursuant to the Minute of Variation, and (ii) the On-Street and/or the Off-Street Works (as defined in the Minute of Variation);
- 3 the Materials and Parts have been set apart from any third party property and stored at the Siemens warehouse situate at Broxburn, EH52 5NP (the "Premises") and have been clearly and visibly marked, so far as practicable, in order to identify such Materials and Parts as belonging to CEC.
- 4 property in the Materials and Parts (including but not limited to supplies received by us from a third party for incorporation in the Materials and Parts) is vested absolutely in us and the Materials and Parts are free from all Security Interests, encumbrances, charges or third party rights of any kind and we are able to pass title to CEC in the Materials and Parts;
- 5 the Materials and Parts are in every respect in accordance with the requirements of the Infraco Contract;
- 6 the Materials and Parts shall at all times after the date of this Certificate be insured by tie by way of the OCIP Insurances taken out and maintained in full force and effect by tie for the required term;
- 7 the Materials and Parts can be inspected at the Premises at any time upon reasonable notice by tie, CEC or by their duly authorised agents; and
- 8 we shall not, except for use on the Infraco Works, remove or cause or permit the Materials or Parts to be moved or removed from the Premises.

We declare that property in the Materials and Parts shall unconditionally vest in CEC in accordance with the provisions of the Minute of Variation upon receipt of the payment referred to above.

AT 1. F

#### EDINBURGH TRAM NETWORK-INFRACO CONTRACT

We acknowledge our obligations pursuant to Clause 102.2.1 of the Infraco Contract insofar as they relate to the Materials and Parts.

Nothing contained in this Certificate or the Infraco Contract or any payment that may be made to us in respect of the Materials or Parts shall be taken as any approval by tie, CEC or by their duly authorised agents that the Materials or Parts are in accordance with the Infraco Contract.

We Siemens plc of Faraday House, Sir William Siemens Square, Frimley, Camberley, GUI16 8QD, England engaged under a contract ("Infraco Contract") dated 08 May 2008 by tie Limited for and on behalf as an operating company of City of Edinburgh Council in consideration of the payment to us of [ ] by tie warrant that the statements made in provisions 1 to 8 above are true and correct and that all the actions referred to have been taken.

Authorised Signatory	
Full Name	***************************************
Dated	

Executed for and on behalf of Siemens PLC

ol. F

#### EDINBURGH TRAM NETWORK-INFRACO CONTRACT

#### SCHEDULE 1

#### SCHEDULE OF MATERIALS AND PARTS

The Material and Parts are detailed herein in sheet reference [INSERT\_REFERNCE]

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## PART 7 CHANGE PROCEDURE

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#### **Change Procedure**

- 1.1 In respect of all Changes to the Prioritised Works tie shall serve a tie Notice of Change upon Infraco setting out in reasonable detail to enable Infraco to provide its Prioritised Works Estimate.
- 1.2 Upon receipt of the tie Notice of Change Infraco shall as soon as practicable provide its Prioritised Works Estimate.
- 1.3 The Parties shall seek to agree the time and cost implications of the proposed Change as soon as reasonably practicable including agreement of any impact upon the Prioritised Works Programme and required extension of time to the date or dates for completion of the Prioritised Works or any part thereof. Where the time and/or cost aspects are not agreed the Certifier shall make a reasonable interim assessment of the extension of time award in respect of the Prioritised Works Programme.
- 1.4 Notwithstanding the absence of agreement of the Infraco's Prioritised Works Estimate in respect of the proposed Change Infraco shall be required to proceed with the proposed Change upon receipt of a tie Change Order in advance of agreement or determination of the Prioritised Works Estimate. Further, the Infraco shall be required to proceed with the proposed Change upon receipt of a tie Change Order in advance of the provision of an Prioritised Works Estimate where considered necessary by tie.
- 1.5 tie shall be permitted to instruct Infraco to continue with any works which are the subject of a Change prior to agreement of the Prioritised Works Estimate or issue of a tie Change Order in respect of such works.
- 1.6 Pending agreement or determination of the Prioritised Works Estimate tie shall pay Infraco on an interim on account basis such sums as shall be assessed as being fair and reasonable by the Certifier. Further, where the programme implications of the Change are not agreed the Certifier shall make a reasonable interim assessment of the extension of time award in respect of the Prioritised Works Programme.
- 1.7 The Parties acknowledge that the Certifier shall value the Change as follows:
  - a) by measurement and valuation at the rates and prices for similar work in Appendix F
    to Schedule Part 4 (Pricing) of the Infraco Contract as the case may be in so far as
    such rates and prices apply;
  - where such rates and prices do not apply, by measurement and valuation at rates and prices deduced therefrom insofar as it is practical to do so;
  - where such rates and prices do not apply and it is not practicable to deduce rates and prices therefrom, by measurement and/or valuation at fair rates and prices in accordance with Appendix G Schedule Part 4 (Pricing) of the Infraco Contract;

#### Schedule Part 7: Change Procedure

For the avoidance of doubt a) to c) above are not applicable to the valuation of tie Changes in respect of Systems and Trackwork and any such part of the Prioritised Works Estimate relating to Systems and Trackwork, including preliminaries, shall be valued by way of actual cost and or Prioritised Works Estimated actual cost.

1.8 In respect of a valuation of any work under paragraph 1.7 above, tie shall apply head office overheads and profit percentages as follows:

109

b) Systems and Track works 17%

Site related overheads (preliminaries) shall be valued and added as follows:

- a) 7.4% to be added to the net valuation of the Change to cover the consortium preliminaries.
- b) 17.5% to be added to the net valuation of the Change to cover any other preliminaries with regard to any Change associated with Civil Engineering Works, provided that this calculation shall in no case apply to Systems and Trackwork or claims for other preliminaries in relation to prolongation costs arising from extensions of time or delay.
- 1.9 As soon as the Prioritised Works Estimate has been agreed or determined, tie shall issue a tie Change Order to Infraco reflecting the same.

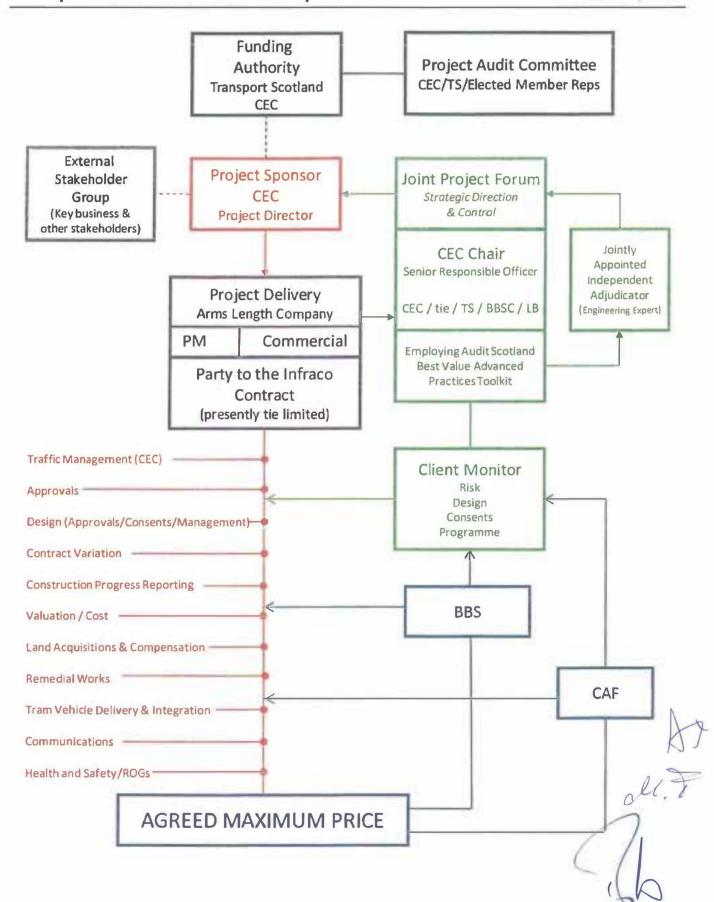
## PART 8 GOVERNANCE STRUCTURE

John F

## Governance Structure: Airport to St Andrew Square

Hg/CRS/07.04.11

Based on RGS/07.03.11



## PART 9 INTERDISCIPLINARY DESIGN CHECK PROCEDURE

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BSC Infraco for ETN, Edinburgh Tram Network



BSC Project Management Plan Interdisciplinary Design Check IDC Design Assurance Statement BSC/25.1.201/PSP/003 Issue 2, Date 14/04/2011 Page 1 of 12

### **BSC Project Specific Procedure -**

# Design Assurance Statement (DAS) & Interdisciplinary Design Check (IDC)

		BSC Consortium			
		Position		Date	Approval
		BSC Project Directo	or	14/04/2011	
		BSC Deputy Project	t Director	14/04/2011	
Inter	Discipline Ch	necking Process			
		Name	Position	Date	Signatures
Check (Sieme		Michael Wilken	System Engineering Manager	14/04/2011	
Reviev	ved by (CAF)	Antonio Campos	CAF Project Director	14/04/2011	
Check	ed by (BB)	Oliver McLoughlin	Quality Manager	14/04/2011	
Author		Stefan Rotthaus	Clvil Eng. Manager	14/04/2011	
	Docum	ent History			
Rev.	Issue Date	Description of Cha	nge		Author
А	02/09/2009	First Issue			Stefan Rotthaus
В	14/04/2011	Second Issue			Stefan Rotthaus

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BSC Infraco for ETN, Edinburgh Tram Network



BSC Project Management Plan DAS / IDC BSC/25.1.201/PSP/003 Issue 2, Date 13/04/2011 Page 2 of 12

	SUMMARY OF	CHANGES	
REVISION REF	REFERENCE	DESCRIPTION	
Α	N/A	FIRST ISSUE	
В		Process amended	

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#### BSC Infraco for ETN, Edinburgh Tram Network



BSC Project Management Plan DAS / IDC BSC/25.1.201/PSP/003 Issue 2, Date 13/04/2011 Page 3 of 12

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BSC Project Management Plan DAS / IDC BSC/25.1.201/PSP/003 Issue 2, Date 13/04/2011 Page 4 of 12

#### 1 INTRODUCTION

This document defines the requirements on the Design Assurance Statement (DAS) and the Interdisciplinary Design Check (IDC) as part of the overall Design Management Plan and its relation to the Interface Management Process.

#### 1.1 SCOPE

The DAS of the civil designer for each section, the DAS of the E&M systems and tram designer for each of the lots / disciplines (Appendix 1) as part of the Generic Integration Approach (Appendix 2) will form the basis for the IDC and the overall BSC DAS (Appendix 3).

The process for the DAS and IDC is shown in Appendix 5.

The DAS of the lots / disciplines will be provided after the relevant design is completed. The main purpose of the IDC procedure is to ensure that the design of the system meets the requirements on functionality, performance and safety it is intended for and as defined in the Employer's Requirements.

While the Interface Management Process is an ongoing process over the complete design stage (Appendix 2), the IDC is the final check and confirmation, that the design is fully integrated. With the BSC DAS (Appendix 3) BSC confirms that the design is fully integrated and the IDCs have been performed in an appropriate manner.

#### 1.2 **DEFINITIONS**

N/A

#### 1.3 REFERENCES

Design Management Plan (BSC/25.1.201/DMP/001), Interface Management Procedure (ETN(SPM\$Q&ADB#050151 Revision B)

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#### 2 IDC - PROCESS

#### 2.1 GENERAL

The BSC Generic Integration Approach and IDC Process, in accordance with this procedure, are shown in Appendix 2 and 5 respectively.

The Interface Management Process takes place during the design process, making each of the disciplines aware of specific requirements of other disciplines. Design documents, and the DAS of the relevant disciplines will form the basis for the required IDC as part of the overall BSC DAS. (Refer Appendix 2 for Interface Management Process)

The basic requirement for performing the IDC is a frozen design status. In the event amendments to the design or drawings are required due to the results of the IDC workshop or other minor design changes, these amendments have to be documented in an appropriate way. Details for this documentation are defined by the documentation management.

The System Integration Manager (SIM) will invite participants to and prepare the IDC workshop, which will be performed as a "walk – through" of the designs for the relevant geographical sections based on the design documents and drawings. The findings from the workshop and results gained from previous workshops will be used to ensure that the design of neighbouring sections is consistent and fulfils the overall requirements.

Within the workshop performed per section, the representative of the disciplines will ensure and confirm that the design and the DAS performed on subsystem basis, meets the specific requirements of the relevant section of the ETN system.

Findings of the IDC will be documented in the IDC report and referred back for action (Refer Appendix 5). A special check will take place on the relevance of the reported items in respect to a potential application for other sections or the overall system. By signing the IDC Certificate each of the discipline's representatives will confirm this specific cross - check and the conclusions gained during this walk-through approach (Refer Appendix 4 for example IDC Certificate).

After the IDC is carried out, the BSC DAS (Appendix 3) will be prepared and issued to the Client for information.

#### 2.2 RESPONSIBILITIES

#### SYSTEM INTEGRATION MANAGER

The System Integration Manager (SIM) will coordinate the IDC process and will ensure it is conducted to programme.

The SIM will take particular responsibility for controlling the overall design workflow for system wide designs and is responsible for planning and initiating the system wide IDCs and ensuring that the relevant disciplines partake at the appropriate time and complete their IDCs to programme.

The SIM is the owner of this document. The SIM will liaise with Civil Engineering Manager, Systems Engineering Manager and the Tram Technical Manager regularly. The SIM will ensure that the overall design coordination and review process is working efficiently so that IDC can be initiated as and when required.

The SIM will ensure that the IDCs are of the required technical standard and that the appropriate representatives of the disciplines take part in the IDC.

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Further responsibilities of the SIM can be summarised as follows:

- Ensure that the required IDC milestones are considered in the programme
- Ensure that DAS of lots /disciplines and other preparations for IDC are in place
- Invites lots / disciplines required to IDC meeting
- Convene and chair IDC meetings
- Ensure that design input gained in IDC workshops will be transferred into other IDC workshops
- Prepare IDC report
- Issue IDC report and final DAS

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#### **APPENDIX 1: DESIGN ASSURANCE STATEMENT** LOTS / DISCIPLINES

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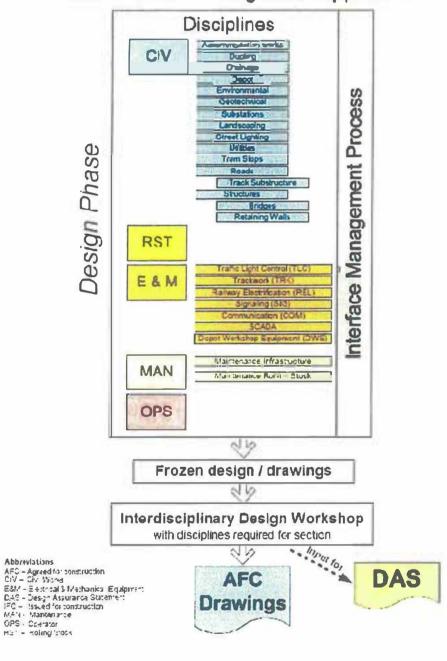
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#### **APPENDIX 2: GENERIC INTEGRATION APPROACH**

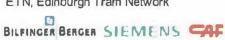
#### **BSC - Generic Integration Approach**



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Abbreviations

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#### **APPENDIX 3: BSC - DESIGN ASSURANCE STATEMENT**

BSC Integrated Design Assurance Statement (Section / A)

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# Design Assurance Statement Integrated DAS

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#### **APPENDIX 4: IDC CERTIFICATE**

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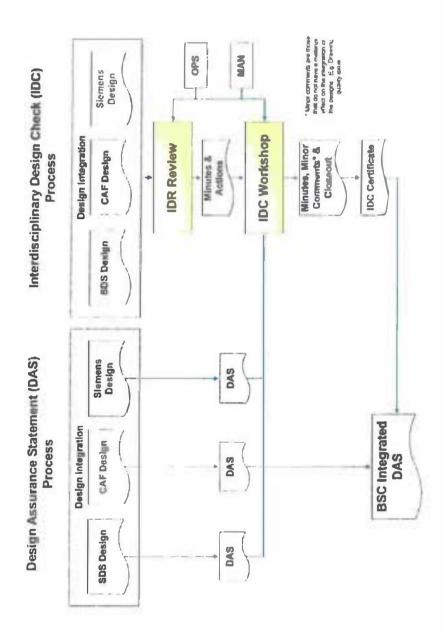
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#### **APPENDIX 5: IDC PROCESS**



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