## Background and IntroductionObjectives

- 1.1 This paper briefly-outlines the requirement and options for the procurement of Investigation Services (IS) and Investigation Works (IW)<sup>1</sup> in connection with the overall procurement of the proposed Edinburgh Tram Network (ETN). An opportunity has been identified to make progress with IS and IW ahead of the appointment Systems Design Services (SDS) consultant in mid May 2005.
- 1.2 Against this background the key matters to be understood are:
  - The existence and confidence in investigation data and information generated by the Parliamentaryprocess.
  - The suitability and completeness of this data and information to the SDS consultant for the purposes of detailed design.
  - Identification of opportunities and priorities in respect of IS and IW to enable unhindered SDS progress on appointment.
  - 4. The budget required for executing IS and IW in advance of the SDS appointment.
  - Risks and consequences associated with undertaking IS and IW in advance of appointing the SDS and the consequences of doing nothing until the appointment of the SDS.
  - What can be done now to facilitate IS and IW to permit tie maximum flexibility in the period up to the appointment of the SDS.
- I.2 IS-determines the physical-characteristics of sites as they affect design and construction of the tram network and stability of neighbouring structures... IW-encompasses the exploration and recording of the location and characteristics—of soil,—rock—and—ground—conditions,—utilities;—clearances—and—adjacent—infrastructure—(for example,—city—centre-basements and -Network -Rail—Controlled Infrastructure)... Aspects—of -both -have-been undertaken-for Lines-I,—2 and 3-via-tie's technical consultants engaged to support the Parliamentary process.
- 1.3 Items 1 to 4 are actions that have already commenced. This paper briefly considers item 5 and concentrates on item 6. The accuracy and reliability of the data and information produced by IS/IW is a matter of commercial importance to all those involved in the construction of the network. The interests of tie are paramount as erroneous information may invalidate aspects of permanent works design of the works completed prior to the novation of the Systems Design Services (SDS) consultant to Infraco.
- 4.4 Under-the-present-procurement-strategy,--it-is-understood-that-tie,--and--not-the-Infraco,--will-directly commission-the diversion of utilities.

## 2 Timescales

- 2.1 The timescale for the procurement of the SDS and Infraco are 30—Junemid May 2005 and mid 2006 respectively. The former may be delayed by the outcome of the forthcoming. Congestion Charge Referendum. The appointment of the latter may be accelerated as a consequence of 'tax funding', requiring financial close of Infraco procurement by I March 2006. A decision on accelerated appointment of the Infraco will be reached by I March 2005.
- 2.2 It is understood that a number of key utilities require diverting and that the lead-time associated with these is of order of 12 months, followed by 6 months site work<sup>2</sup>. On this basis, diversions instructed now would not be achieved until the end of June 2006. This may impact the commencement of Infraco's construction period.
- 2.3 On the basis that the SDS may not be appointed for at least another 4 months and that some specific matters already require investigation, it is imperative that tasks be progressed now to provide tie with maximum flexibility in decision-making.

1. The use of Site Investigation and Ground Investigation is avoided here due to the broader issues relating to investigating the route associated with the Edinburgh Tram-Network. S. determines all physical characteristics of sites as they affect design and construction of the ETN and integrity, of neighbouring infrastructure and property. TW encompasses the exploration and recording of the location and characteristics of soil, rock and groun conditions, utilities, clearances and adjacent infrastructure (for example, city, centre basements and all assets, on Network Raf. Controlled Infrastructure). Aspects of both have been undertaken for Lines 1, 2 and 3 via tie's technical consultants engaged to support the Parliamentary process.

Under the overall procurement strategy, it is proposed that tie, and not the Infraco, will directly commission the diversion of utilities. This strategy

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2.2 It is understood that a number of key utilities require diverting and that the lead-time associated with these is of or der-d-12-months, followed by-6-months-site work: On this basis, diversions instruction period.

## 3 Requirements

- 3.1 IS- and IW-require the procurement of both Professional Services and Physical Works.
- 3.12 Beyond the work done to support the Parliamentary process, information is required by the SDS and Infraco for the appropriate and economic design of the permanent works. It is also likely to be relied upon for other purposes, such as temporary works and the potential extent of tie's liability to third parties. The form and contractual status of the information produced from investigations must therefore be compatible with the form of contract adopted for the SDS and, subsequently, Infraco.
- 3.2 The accuracy, reliability and timing of the data and information produced by IS / IW is a matter of commercial importance to all those involved in the construction of the ETN. The interests of tie are paramount as erroneous, incomplete or late information may invalidate or delay aspects of permanent works design of the works completed prior to the novation of the Systems Design Services (SDS) consultant to Infraco.
- 3.3 There is an immediate requirement for IS and IW to influence and facilitate the advanced diversion of key utilities with long lead times.
- 3.4 To facilitate any IW or advanced works on site, the appointment of a Planning Supervisor under the Construction (Design and management) Regulations is <u>mandatory</u>necessary.

# 4 Procurement Options

4.1 A number of options exist for the procurement of IS and IW. In short, there is a requirement to provide IS to direct and report on IW and desktop activities, and a need to execute IW to provide factual data. IS and IW respectively require the procurement of professional services and physical works. The former-may-be achieved through

## IS may be provided by:

- tie's in-house technical expertise (for example, Tom-Blackhall in the case of utilities);,
- a consultant other than the SDS (including one or both of the incumbent technical consultants if <u>Permitted by current terms of engagement-Mott-MacDonald or-Faber-Maunsell)</u>; or
- depending on timing, the SDS, or itself;.
- cAlso, some ground investigation contractors may have with IS capability.

The IW contractor is likely-towill either be engaged by either tie or the SDS; appointment by the Infraco would be too late to obtain the data required to inform detailed design.

- 4.2 For IS, tie therefore has three contracting options for IS: in-house personneldirect or consultancy appointment, variation of existing commissions with incumbent consultants (where permitted by their current terms of engagement) and use of bespoke professional services agreements currently under development by DI A.
- 4.3 The IW contractor(s) may be engaged either by tie or the party providing IS. Given the varied nature of the features requiring investigation, IW may involve a number of different contractors, either engaged directly by tie or under sub-contract to one main contractor. A specific issue in-this-respecthere is the competence of IW contractors to execute works on Network Rail Controlled Infrastructure.
- 4.4 The Planning Supervisor may be provided by tie's in-house expertise a consultant other than the SDS\* (including one or both of the incumbent technical consultants) SDS (pre-novation to Infraco) or the Technical Support Services (TSS) consultant<sup>3</sup>.
- 4.54 The following procurement options for IS and IW have been identified:

<sup>3</sup> The TSS will provide continuous technical support to tie throughout the duration of the implementation of the ETN. It is understood that the TSS and SDS will be appointed simultaneously.

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Option	Professional-Services <u>IS</u> undertaken b <u>y:</u>	Physical-Worksl <u>W.undertaken</u> by:	Comment		Formatted Table	
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ı	tie	IW contractor (appointed by tie)	Requires novation to SDS and then Infraco?. Permits early commencement subject to approval of tie procurement procedures. Increases contractual interfaces.	- 10 31	Formatted: Space After: 0 pt	
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2	Other Ceonsultant* (appointed by tie)	IW contractor (appointed by tie-or-other consultant)	Requires novation to Infraco?.  Permits-early-commencement of IW-if incumbent-consultant-used).  Increases contractual interfaces unless incumbent consultants used (if permissible?)	- + 11 + 14 +	Formatted: Space After: 0 pt	
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3	Other Consultant (appointed by tie)	IW contractor (appointed by Other Consultant)	Requires novation to Infraco?  Permits early commencement of IW if incumbent consultants used (is permissible?).	- 450 He	Formatted: Space After: 0 pt	
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43	SDS	IW contractor	RRequires novation to SDS or Infraco.	k = 5 - 4 -	Formatted Table	
	(appointed by tie)				Formatted: Space After: 0 pt	
<u>5</u> 4	SDS (appointed by tie)	IW contractor (appointed by SDS)	Requires novation to Infraco.  Limits contractual interfaces.  Delays potential start of IW.	(1) (1) (1) (1) (1)	Formatted: Space After: 0 pt	
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56	IW contractor	IW contractor	Dependent upon IW contractor capability.	100	Formatted: Space Before: 0 pt	
	(appointed by tie)	(appointed by tie)	Potential for quick start.		Formatted: Space After: 0 pt	
4.5	In-parallel-with-developing the overall-procurement strategy for the project, tie-are finalising their internal			- i	Formatted: Space Before: 0 pt	
	procurement-procedures and processes.—It-is-anticipated that these will be accepted at the tie-executive board-meeting in February 2005.					
* Other	Consultant refers to a cons	ultant other than the SDS and may,	subject to existing terms of engagement, be		Formatted: Font: Gill Sans MT, 10 pt	

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.66	The simplest management of the IS and IM/ is a	I by Option 5: allowing the SDS to area and	-0.11	Formatted: Font: Gill Sans MT, 8 pt	
<u>.0</u> 6	IS and IW has obvious benefits4. Options 1, 2, 3-and-	by Option 5: allowing the SDS to procure and manager 2 and 6 offer the opportunity to undertake IS and IW ive must be to make positive use of the lag period to appointment:	7774	Formatted Table	
7	Option 3 would provide the most expeditious progress whilst minimising tie's contractual interfaces if the incumbent technical consultants (Mott MacDonald and Faber Maunsell) are engaged to provide IS. There are, however, possible EU procurement associated with the potential size of the IS commission (particularly the IW is let as a sub-contract) and the extent to which the existing terms of engagement can be varied. There is also a question over the involvement of an incumbent consultant during the TSS and SDS competitions.				
	Risks	<u>Risks</u>		Formatted: Font: 1 pt	
5.1	Various risks exist to the overall success of ETN appointment of the SDS. Some of these may also be	= + - : : : : : : :	Formatted Table		
	considered below.	:			
	Risk	Consequence		Formatted: Font: Italic	
	Scenario 1 – Do nothing until the appointment of SDS	·		Formatted: Font: Italic	
	Loss of momentum at start of SDS commission.	Reduced timescale for SDS detailed design prior to novation to Infraco.		Formatted: Centered, Space Before: 3 pt, After: 3 pt	
	Lack of access to third party property.	Reduced timescale for SDS detailed design prior to novation to Infraco.		Formatted: Left, Space Before: 3 pt After: 3 pt	
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		4. Scenario 2 – Commission IS and IW prior to appointment of SDS			
	Aspects of IS and IW procured partly by tie and	Liability for IS and IW output procured by ties consistent scoping and specification of IS and IW;	1	Formatted Table	
	partly by SDS.	consistent presentation of IS and IW deliverables for		Formatted: Font: Italic	
		future use.	11. 7	Formatted: Left, Space Before: 3 pt After: 3 pt, No bullets or numbering	
	More complicated contractual interface with SDS.	SDS refusal to accept IS and IW deliverables without- qualification; increased potential for re-work of IS and IW undertaken prior to SDS appointment.		Formatted: Space Before: 3 pt, Afte 3 pt	
	Lack of capacity in tie in-house team to administer IS and IW contracts.	tie personnel deflected from other activities.		Formatted: Space Before: 3 pt, After 3 pt	
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	Use of incumbent consultants beyond original remit whilst they are also engaged in TSS and SDS competitions, leading to accusation of unfair advantage.	Compromised TSS / SDS competition.			
	Damage to utilities during IW.	tie liable for damage caused.			
	Scenarios I and 2			Formatted: Font: Italic	
	Objections to the commencement any physical survey works in sensitive areas in advance of Royal Assent.  Adverse publicity; possible cessation of works: delay to detailed design programme.				
	Contractual standing of IS / IW deliverables to be transferred to Infraco.  Qualified acceptance of IS / IW deliverables.				
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<u>6</u> 5.1	In order to facilitate the letting of contracts for IS and IW (and Planning Supervisor), a number of Itechnical and Perocurement actions are necessary. The former represent matters of scope, requirements and standards,			Formatted	
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	whilst the latter are largely organisational and procedural. Many-of-t hese actions are already in		Formatted: Bullets and	Number [9]	
56.2	Technical actions to be undertaken include:		Formatted		
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	<ol> <li>Review of existing utilities information, the most efficient means of improving confidence in the information available at present and establish the lead-times</li> </ol>		Formatted		
	associated with key utility diversions.	1 1/4/11 1/2/12/1	Formatted: Bullets and	Numb	
	2. Review of existing geotechnical, environmental, topographical, property, and other	211	Formatted		
	parameters necessary with appropriate tie staff and incumbent technical consultants.	11/02/05	11 - 111 - 11 آرام سر د	Formatted	[15]
	3. Review Network Rail procurement priorities with consultant once appointed (Tim	1.1/02/05	**	Formatted: Bullets and	
	Jones).  4. Determine the information requirements of the SDS to commence detailed design and the contractual status of data and information generated from IS / IW with both			Formatted	
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	the SDS and Infraco.	11/02/05		Formatted: Bullets and	Numbe
	<ol> <li>Prioritise IS / IW to be undertaken prior to appointment of SDS. Topographi Network Rail and utilities surveys represent key areas of focus to provide SDS v</li> </ol>		V	Formatted	
	immediately useful data and information.			Formatted	
	6. Establish lists of competent suppliers for IS and IW.	tba •	V. EV	Formatted: Bullets and	Numbe
	7. Preparation of scope requirements for IS and IW contracts.	tba -	V% 1	Formatted	
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	I. Review of existing utilities information and the most efficient means of improving confidence in the information available at present and establish the lead-times associated with key utility diversions.			Formatted	
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	This work is being led by Tom Blackhall.	1913	Formatted: Bullets and		
	2. Review of existing geotechnical, environmental, topographical, property, and other parameters			Formatted	
	necessary with appropriate tie staff (it is understood that a tie geotechnical advisor to b imminently).		Formatted	_=	
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	3.Review Network Rail procurement priorities with consultant once appointed (Tim Jones).	3	Formatted	[22]	
	4.Establish the available budget for investigation works during 04/05 and 05/06.		Formatted	[32]	
	5: Establish-key-programme dates in relation to procurement time scales:		Formatted: Bullets and	Numba	
	6. Consider the information requirements of the SDS to commence detailed design and the	1 11 11 1	Formatted	TVUITIBO	
	status-of-data-and-information-generated-from-IS/-IW-with-both-the-SDS-and-Infrace:	: ::::: : <u>:</u>	Formatted		
	7.Prioritise IS / IW to be undertaken. Topographical, Network Rail and utilities surveys rep		Formatted Table		
	areas of focus to provide SDS with immediately useful data and information.		1 1 1	Formatted	
	8.Establish lists of competent suppliers for IS and IW.		7	Formatted: Bullets and	Numba
	9. Preparation of scope requirements for IS and IW contracts:	1 3/2		Mullipe	
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	8 Determine Work Breakdown Structure and less Contract Brekerne on the basis of	14/02/05	1	Formatted: Bullets and	Numbe
	<ol><li>Determine Work Breakdown Structure and key Contract Packages on the basis of the technical review undertaken above.</li></ol>	10/02/05		Formatted	
	9. Establish the available budget for investigation works during 04/05 and 05/06.	tba -	49.4	Formatted: Bullets and	Numbe
	10. Establish key programme dates in relation to procurement timescales (David Ramsay,	tba -	r f f f f f f f f	Formatted	
	DLA).  11. As a priority, prepare and publish OIEU notices for IS and IW Work Packages.	01/02/05	, 100 ja 100 jan	Formatted Table	
	Contract documents may then be prepared in parallel with the statutory notice			Formatted	
	periods (note that there is a credibility risk here if tie advertise and then do not		1 -11 - 11	Formatted: Bullets and	Numbe
	award any contracts).	01/02/05		Formatted	
	12. Confirm DLA's drafting of professional services agreements is appropriate for engaging IS. Effect of novation of SDS to Infraco to be considered.	01/02/05	ri data	Formatted: Bullets and	Numbe
	13. Confirm whether or not existing commissions with Mott MacDonald and Faber	18/02/05		Formatted: Bullets and	Numbe
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Maunsell can be varied to provide IS support.

14. Dependent upon positive outcome to action 14, prepare and issue brief for Mott MacDonald and Faber Maunsell to provide summary report answering technical actions I to 5 inclusive.

15. Establish appropriate forms of contract for procuring IW. Standard forms<sup>4</sup> exist for these purposes but may require specific amendment to incorporate any special conditions imposed by tie or the City of Edinburgh Council (CEC) and Network Rail. (GB and DLA)

16. On the basis of the technical requirements and prescribed procurement timescales (OIEU or other determined by tie or City of Edinburgh Council Standing Orders) confirm preferred procurement strategy for IS and IW works and obtain necessary tie authority to place contracts (post March Scottish Executive board meeting?).

17. Establish appropriate agreements with utilities, Network Rail and property owners to that facilitate IS and IW identified by the technical review.

#### 5.3 Procurement actions include:

10. Determine-Work-Breakdown-Structure and-key-Work-Packages on the basis of the technical review

II. As a priority, prepare and publish OJEU notices for Work Paclages,... Contract documents may then be prepared-in-parallel-with-the-statutory-notice-periods:

12: Confirm DLA's drafting of professional services agreements is appropriate for advising on IS and IW:

13. Establish appropriate forms of contract for procuring IW. Standard forms exist for these purposes but may require specific amendment to incorporate any special conditions imposed by tie or the City of Edinburgh-Council (CEC) and Network Rail.

 $14. Confirm the status-of-tie's-procurement-policy-and-processes. \\ -It is understood-that aspects-of-these$ are still under review for approval by the tie board. Establish procurement mechanism in the absence of approved-procedures. This work is being-led-by-Mark-Bourke.

15.On the basis of the technical requirements and prescribed procurement timescales (OJEU or other determined by tie or City of Edinburgh Council Standing Orders) establish preferred procurement strategy-for-IS-and-IW-works-and-obtain-necessary-tie authority-to-place-contracts.

16.Establishing appropriate agreements with utilities. Network Rail and property owners to facilitate any physical work that is identified by the technical review.

17. Establish-the-overall-programme for 1S and IW-procurement. This will be done in conjunction with David-Ramsay, commencing with a co-ordination meeting on 22/01/05.

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<sup>5</sup> For example, ICE Conditions of Contract, Ground Investigation Version, 2<sup>nd</sup> Edition, November 2003, ICE, ACE, CECA

For example, ICE Conditions of Contract, Ground Investigation Version, 2<sup>nd</sup> Edition, November 2003, ICE, ACE, CECA

services

3. Establish a Procurement Review Panel to focus the production of the

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appointment of the SDS provides the opportunity to commit resources to undertaking investigation

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Indent: Left: 0.63 cm, Hanging: 0.63 cm, Numbered + Level: 1 + Numbered + Start at: 1 + Alignment: Left + Aligned at: 0.63 cm + Tab after: 1.21.27 cm	
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