



MUDFA Project  
Western Harbour  
Leith Docks  
Edinburgh  
EH6 6QF

Telephone 0131 561 2800  
Facsimile 0131 561 2811  
www.alfredmc Alpineplc.com

**Infrastructure Services**

Ref: AMIS/tie/letter/AM/Projects/212

21<sup>st</sup> May 2007

**Mr. Graeme Barclay**  
tie MUDFA Utilities Project Manager  
tie Limited.  
Verity House,  
19 Haymarket Yards,  
Edinburgh.  
EH12 5BH

Dear Graeme,

**Subject: MUDFA Alfred McAlpine Infrastructure Services (AMIS) – Contract A150**  
**AMIS MUDFA Project Progress Report – Contract Requirement 2.46**

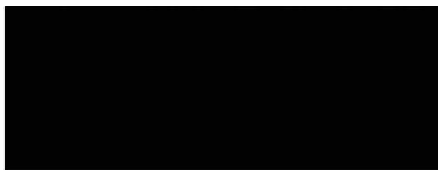
I refer to the above referenced contract requirement and have pleasure in forwarding you copies of the AMIS MUDFA Project Progress Reports for the May 2007 period. The reports cover the following areas of the Edinburgh Tram project :

- Multi-Utility Diversion Framework Agreement (MUDFA) construction works
- Gogar Depot mass excavation and advanced civil works, and
- Edinburgh Airport Rail Link (EARL) advanced utility diversion works

If you should have any further queries then please do not hesitate to contact me. I look forward to seeing you at the monthly progress meeting scheduled for Thursday 24<sup>th</sup> May 2007 at 10.00 Hrs, Leith Offices.

Yours sincerely,

For and on behalf of **Alfred McAlpine Infrastructure Services Ltd**



**Andrew Malkin**  
MUDFA AMIS Project Director



Alfred McAlpine Infrastructure Services Limited. Registered in England No. 00728599  
Registered Office: Kinnaird House, 1 Pall Mall East, London SW1Y 5AZ.

**CEC01664355\_0001**



**Infrastructure Services**

Ref: AMIS/tie/letter/AM/Projects/212  
21<sup>st</sup> May 2007

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**Copies:-**

**tie Project Team**  
See Report Distribution

**MUDFA Project Team**  
See Report Distribution  
**AMIS MUDFA Board**

Attachment /...

**AMIS MUDFA Monthly Progress Reports (3 No. Copies) – May 2007**



Alfred McAlpine Infrastructure Services Limited. Registered in England No. 00728599  
Registered Office: Kinnaird House, 1 Pall Mall East, London SW1Y 5AZ



**MULTI-UTILITY DIVERSION FRAMEWORK  
 AGREEMENT (MUDFA)**  
 Relating to the  
**Edinburgh Tram Network**  
**Contract No. A150**

**ALFRED McALPINE  
 INFRASTRUCTURE SERVICES (AMIS)**  
  
**DOCUMENT No. A150/PM/PRJ-REP/MUDFA/02**  
  
**DOCUMENT TITLE :**  
  
**PROJECT MONTHLY REPORT**  
**MAY 2007 - MUDFA WORKS**

**VERSION No : 01**

**PAGE : 1 of 13**

<b>DOCUMENT OWNER : ANDREW MALKIN</b>							
						<b>CODE A, B OR C</b>	
<b>Andrew Malkin</b>	<b>17.05.07</b>		<b>8.05.07</b>		<b>18.05.07</b>	<b>N/A</b>	<b>N/A</b>
<b>Author</b>	<b>Date</b>	<b>Checked</b>	<b>Date</b>	<b>Approved</b>	<b>Issue Date</b>	<b>Approved</b>	<b>Date</b>
<b>MUDFA AMIS PROJECT TEAM</b>						<b>Tie / Client</b>	



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### AMIS MUDFA Project Monthly Report – Construction Services

### MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT

### Month 2 – May 2007

#### Contents

1. Executive Summary
2. Health and Safety, CDM, Quality and Environmental
3. SDS Design Interface and Buildability Analysis
4. Operations Management
5. Communications and Stakeholders
6. Construction Planning and Project Controls
7. Contract and Commercial Management
8. Future Business Opportunities & Developments

#### **Appendices :**

1. Construction Services : 16 Week Look-Ahead (1 Page)
2. AMIS MUDFA Change Control Register (2 Pages)

#### **Distribution :**

##### *tie Limited Project Management*

Matthew Crosse, Susan Clark, Steven Bell, Suzanne Waugh, Tom Clark, Brian McCall, Tom Condie, Graeme Walker, Graeme Barclay (Chair), Phil Douglas, Allan Hill, John Low, Jim Johnson, Ian Clark, Michael Blake, John Casserly, Jim Sneddon & John McAloon.

##### *AMIS Project Management*

Andrew Malkin, Keith Gourlay, Graeme Strachan, Gil Clelland, Gerry Bannon, Stephen Clemenson, Steven Crosbie, Mark Riley, Roddy Aves, Billy Murray, Ian Shanks, Catherine Gick, Taryne Lowe, John Cowan, AMIS Board (Alan Robertson) & AMIS MUDFA Contract File (30 Copies in Total).



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 1. Executive Summary

Alfred McAlpine Infrastructure Services (AMIS) has concluded the MUDFA Construction Services (CS) works at Casino Square (i.e. Trial Site) within the reporting period. The main focus since has been on the follow on works constituting the RAT 1A/1 Rev 1/2 proposals created and submitted by AMIS MUDFA, and this is currently delayed due to the elections and appointment of the new administration.

The main AMIS MUDFA concern still relates to the lack of availability of Issued for Construction (IFC) detailed design drawings complete with Bill of Materials (BOM's) and cost estimates by the SDS Provider (See Section 3 for specific details and status @ Rev 05).

In the next reporting period AMIS MUDFA will review the tie Limited commercial agreement and will take time out to evaluate the current position and create an alternate approach given the criticality and direct dependencies on the imminent INFRACO works (i.e major capital expenditure programme).

### 2. Health and Safety, CDM, Quality and Environmental

#### *Main Achievements Within the Reporting Period*

- No major accidents. Accident Frequency Rate (AFR) = 0.
- Near miss reported at Gogar Depot (Perimeter fencing see Gogar report).
- AMIS MUDFA safety inductions complete and up to date.
- No environmental issues to report within the reporting period.
- Lessons learnt exercise from the Trial Site completed (Joint exercise between tie Limited & AMIS MUDFA).

#### *Activities Planned for Next Reporting Period*

- Induction and awareness training for EARL project team and Jacobs Engineering.
- Complete AMIS BMS re-issue and roll-out of documentation to project team.
- Continue MUDFA staff safety forums at Leith Offices and site compound.
- Carry out AMIS MUDFA site safety tour at Gogar depot (R. Coupe, A. Malkin & G. Strachan).
- Address key actions resulting from H,S,E&Q meeting held on Wednesday 16<sup>th</sup> May 2007. Main concerns relate to CDM Regulations and SDS HAZID Log.



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### **Areas of Concern & Key Highlights**

- Availability of SDS HAZID Log data for next series of worksites.
- H,S,E&Q team not fully up to speed on current planning and operations.

### **3. SDS Design Interface and Buildability Analysis**

#### ***Main Achievements Within the Reporting Period***

- Gas & Water Thumbnail Utility Design Sketches (TUDS) completed for SDS Sections 1A / North (Batch 3).
- Gas & Water Thumbnail Utility Design Sketches (TUDS) completed for SDS Sections 1B / South (Batches 1 & 2).
- Water Thumbnail Utility Design Sketches (TUDS) completed for SDS Section 5B.
- Water Thumbnail Utility Design Sketches (TUDS) completed for SDS Section 6 (Based on preliminary design and not Scottish Water twin main solution).
- Follow on Section 1A work orders compiled in draft format.
- RAT 1A/1 Revision 1 re-issued and awaiting SUC approval of proposals.
- Section 1B Traffic Management Plans complete ready for formal submission.
- AMIS MUDFA attendance at regular SUC meetings continues.

#### ***Activities Planned for Next Reporting Period***

- Complete any outstanding Gas & Water Thumbnail Utility Design Sketches (TUDS) for SDS Provider and prepare entitlement claim for additional hours.
- Approve RAT 1A/1 Revision 2 work order and secure **tie** Limited approval.
- Complete Section 1A/North work orders for **tie** Limited approval.
- Carry out Section 1B Traffic Management Plan reviews with traffic panel.
- Submit MABEY bridges proposal for traffic management solutions.
- Hold EARL utility diversion design services kick-off meeting with Jacobs Engineering.
- Commence detailing of next 16 week look-ahead, cost and resources.
- Commence detailed reworking of **tie** Limited Stakeholder Constrained Programme (Revision 6) in conjunction with **tie** Limited project control team prior to recommencing P3e Planning. Delay, disruption and key dependencies on INFRACO are all key considerations in the re-planning exercise which should be led by **tie** Limited given the integrated nature of the planning task ahead.

## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### Areas of Concern & Key Highlights

- Availability of SDS Provider and SUC approved utility diversion designs at Issued for Construction (IFC) status complete with Bill of Material (BOM's). Current Revision 05 planned requirements is 170 No. drawings, namely :

#### **Section 1A – 64 No. IFC Drawings due 16<sup>th</sup> April 2007 (Rev 05)**

- IAWSI005/002- 6 Drawings
- IAWSI003/001- 4 Drawings
- IAWSI003/002- 16 Drawings
- IAWSI004/001- 6 Drawings
- IAWSI004/002- 2 Drawings
- IAWSI005/001- 8 Drawings
- IAWSI006/001- 5 Drawings
- IAWSI006/002- 4 Drawings
- IAWSI007/001- 7 Drawings
- IAWSI007/002- 4 Drawings
- IAWSI007/003- 2 Drawings (64 No. Drawings).

#### **Section 6 – 13 No. IFC Drawings due 23<sup>rd</sup> April 2007 (Rev 05)**

- 6WSI001/001/WP1 - 12 Drawings
- 6WSI001/001/WP2 - 1 Drawings (13 No. Drawings).

#### **Section 1B – 81 No. IFC Drawings due 21<sup>st</sup> May 2007 (Rev 05)**

- 1BWSI001/001 - 5 Drawings
- 1BWSI001/002 - 17 Drawings
- 1BWSI001/003 - 8 Drawings
- 1BWSI001/004 - 4 Drawings
- 1BWSI002/001 - 4 Drawings
- 1BWSI002/002 - 8 Drawings
- 1BWSI003/001 - 8 Drawings
- 1BWSI003/002 - 8 Drawings
- 1BWSI003/003 - 6 Drawings
- 1BWSI003/004 - 9 Drawings
- 1BWSI003/005 - 4 Drawings (81 No. Drawings).

#### **Section 1C – 12 No. IFC Drawings due 28<sup>th</sup> May 2007 (Rev 05)**

- 1CWSI007/001 - 4 Drawings
- 1CWSI008/001 - 8 Drawings (12 No. Drawings).

## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- No feedback or verification received from **tie** Limited regarding trail site Aiden surveys and corrective action planning (Section 1A).

### 4. Operations Management

#### 4.1 Construction Services

##### *Main Achievements Within the Reporting Period*

- Trial site successfully completed at Casino Square and associated frontage.
- Manhole and CCTV surveys completed for Sections 1A/North. Water jetting and re-survey work still to be completed.
- Manhole and CCTV surveys completed for Section 5B.
- Manhole and CCTV surveys completed for Sections 1A. Water jetting and re-survey work still to be completed (i.e. at Anfield pumping station).
- Gas riser surveys continue with 21 No. completed in reporting period.
- Water service connection surveys continue with 340 No. completed in reporting period.
- AMIS MUDFA Operations team have considered subcontract options to complement loss of resources from the AMIS business (i.e. Turriff, MASK, MUS, DCT, RWL, CTC, Blyth Construction, Eva Gas, Mainline Scotland, Celimisa, Northern Tunnelling and DCT). Delayed programme has not assisted the planned transfer.

##### *Activities Planned for Next Reporting Period*

- New manhole and CCTV survey programme to be generated addressing Sections 5A, 5B and 6.
- Complete any outstanding gas and water thumbnail sketches to support SDS Provider and **tie** Limited to secure SUC approvals. Additional drawings requested from SDS Provider.
- Consider holding technical review sessions with the SUC specialists.
- Prepare to commence RAT 1A/1 Revision 2 construction works at Ocean Drive and Terminal frontage.
- Refer to Gogar depart and EARL reports for other planned activities.

##### *Areas of Concern & Key Highlights*

- Manhole and CCTV surveys cancelled on Section 1B due to councillor involvement. Cost and time implications to be evaluated and advised.



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Delay to commencing works on RAT 1A/1 Revision 1 proposal created by AMIS MUDFA. tie Limited to confirm planned start dates.
- Changing sequence of CCTV surveys requested by tie Limited and impact on IMP Limited being assessed.

### 4.2 Traffic Management

#### *Main Achievements Within the Reporting Period*

- Traffic Management plans successfully implemented on Trial Site at Casino Square and Gogar Depot A8 carriageway.
- Traffic Management draft plans completed for Section 1B (Leith Walk).

#### *Activities Planned for Next Reporting Period*

- Review Traffic Management Plans for Section 1B with traffic panel and CEC specialists.
- Approve and implement Traffic Management Plan for RAT 1A/1 Revision 2 construction works at Ocean Drive and Terminal frontage / Holiday Inn Express roundabout.
- Commence Traffic Management Plans for Section 5A and 7A (In Part).
- Mobilise dedicated AMIS Traffic Management team at Leith offices.
- Commence AMIS MUDFA/MABEY bridge solution discussions for city centre traffic (MUDFA and INFRACO).

#### *Areas of Concern & Key Highlights*

- Encourage more traffic plan discussions in advance of formal submissions.

### 4.3 Materials, Supply Chain Management & Site Services

#### *Main Achievements Within the Reporting Period*

- Materials and plant used at Trial Site demobilised back to AMIS depots.
- Power cables change order and purchasing proposal submitted to tie Limited for final review and approval (£270,925.00).
- Utility material supplier and storage meetings held in reporting period.
- First generation Bill of Materials (BOM's) produced in advance of SDS Provider information to assist and support AMIS MUDFA programme.

#### *Activities Planned for Next Reporting Period*

- Compare SDS Provider Bill of Materials (BOM's) for first IFC drawings against AMIS MUDFA advanced estimates to assess any commercial discrepancies.

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- Finalise material storage, logistics, Leith compound and laydown areas for review and agreement with **tie** Limited.
- Commit purchase order for power cables to secure cost offer and availability.

### ***Areas of Concern & Key Highlights***

- No early visibility of Bill of Materials (BOM's) with materials being purchased with an element of risk.

## **5. Communications and Stakeholders**

### ***Main Achievements Within the Reporting Period***

- Attendance at **tie** Limited, several stakeholder and local council meetings.
- Communications established with SUC call centres (i.e. Team Leaders) and introduction meetings arranged.
- Communications meeting held with **tie** Limited team (Gill Arnott & Alf Orriell).
- AMIS MUDFA communication team effort and letter drops postponed until after the elections and appointment of new administration. Team still and currently on hold.

### ***Activities Planned for Next Reporting Period***

- Attendance at Ocean Terminal residents committee meeting tentatively scheduled for mid-June 2007 via appointed Factor.
- Presentation to Ocean Terminal retailers anticipated in early June 2007.
- Commence letter drops in the vicinity of Ocean Terminal (Monday 11<sup>th</sup> June 2007).

### ***Areas of Concern & Key Highlights***

- Sensitivity of elections and appointment of new government administration.

## **6. Construction Planning and Project Controls**

### ***Main Achievements Within the Reporting Period***

- **tie** Limited & Stakeholder Constrained Programme Revision 05 already considered by AMIS MUDFA to be out of alignment with SDS Provider design deliverables (See Section 3) following review within the reporting period.
- 16 Week look-ahead generated to accommodate change and uncertainty surrounding the timing and scope of RAT 1A/1 Revision 2 (i.e. Forth Ports Plc constraints and embargo now influencing work sequence and durations).

## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### **Activities Planned for Next Reporting Period**

- P3e programme development will recommence once clear MUDFA planning strategy is agreed with **tie** Limited. Propose **tie** Limited lead the planning exercise since the planning and controls team are best placed to ascertain SDS Provider information for both MUDFA and INFRACO.
- Complete and finalise RAT 1A/ Revision 2 programme and cost estimate.
- Complete detailed technical audit of SDS Provider utility design progress \*.
- Recommence operations interactive planning sessions.
- Seek clarification and visibility of Schedule 13 programme requirements.

### **Areas of Concern & Key Highlights**

- Availability of accurate utility design technical definition and details to support detailed planning and cost estimating.

## **7. Contract and Commercial Management**

### **Main Achievements Within the Reporting Period**

- **tie** Limited and AMIS MUDFA discussions held regarding commercial agreement and misalignment to be reviewed at meeting on Wednesday 23<sup>rd</sup> May 2007.
- AMIS MUDFA cost profile and projections for April, May & June 2007 still under review and no formal acceptance by **tie** Limited received to date.
- SUC C4 estimates completed to assist **tie** Limited secure SUC design approvals.
- MUDFA change control issues cleared and resolved in reporting period (See Appendix 2).
- AMIS MUDFA payment applications for £1,418,063.23 submitted and value certified totals £1,343,375.86. Variance of £74,687.37 under detailed review and appraisal by AMIS MUDFA (Refer to commercial agreement).

### **Activities Planned for Next Reporting Period**

- Resolution of contractual agreement in relation to Schedule 4 (i.e. Bill of Quantities).
- Resolution and application of staff rates and preliminary entitlement to be reviewed in conjunction with programme status and design interface.
- AMIS MUDFA review and approval of new commercial agreement (Meeting scheduled for Wednesday 23<sup>rd</sup> May 2007).
- Review **tie** Limited proposal for AMIS MUDFA incentivisation.

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- Carry out full and detailed review of all outstanding correspondence actions.
- Agree final account and approval of AMIS MUDFA Pre-Construction Services and the Casino Square Trial Site. RAT 1A/1 Revision 2 to be carried out on a Cost + 15% basis due to the lack of SDS Provider design details.

### **Areas of Concern & Key Highlights**

- Draft commercial agreement still awaited from **tie** Limited (7 weeks).

## **8. Future Business Opportunities & Developments**

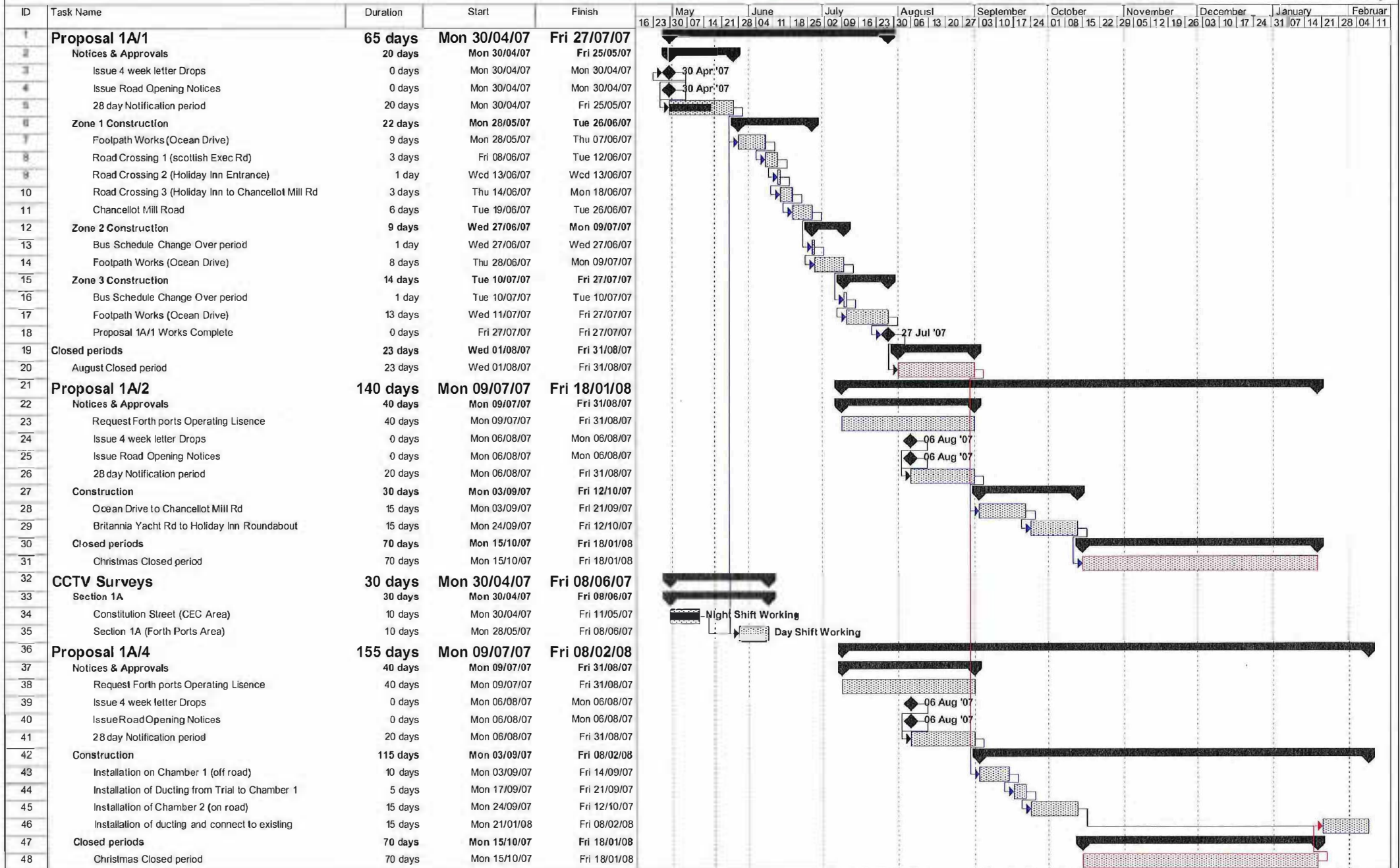
- EARL (Tram/Train) Multi-Utility diversion works at Edinburgh Airport (Central Area) : Approximately £10M. Formal authorisation received from **tie** Limited.
- EARL Multi-Utility diversion works at Edinburgh Airport (Kirkliston North Side) : Approximately £12 to 15M. Proposal in hand by AMIS MUDFA and Jacobs Engineering.
- GARL Train Multi-Utility diversion works at Glasgow : Approximately £25M.
- Gogar Depot advanced civil works : Approximately £5 to 10M.
- Ingliston temporary car park (Option 3 Revisited) : Estimate £550,000.
- St. David Street (North, Central & South) Two-way traffic : Approximately £1M.
- Main Route City Fibre Optics & WiFi Enabling for Edinburgh (£M TBC).
- Edinburgh to Glasgow MAGLEV project (£M TBC).

### **Appendices :**

1. Construction Services : 16 Week Look-Ahead (1 Page).
2. AMIS MUDFA Change Control Register (2 Pages).

16 Week Look Ahead Programme

APPENDIX 1 (1/1)



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Notice of Change										Estimate Submission Procedure				Change Order (tle)			MIS Comment				
Change Reference	Sub Reference	Generic Description	WBS Code	Date notified by tie OR	Date raised by AMIS	Date of further Letters	Letter Ref.	Work Sector	Work Section	Brief Description	Date Estimate Required (Clause 46.3)	Date Estimate Provided (Clause 46.4)	£ Estimate	Estimate Agreed?	Date issued by tie OR	Notice of Change Withdrawn	Further Action(s) Required	Action by?	Ch's to be submitted	Estimated Value (£000's)	Status
		Water		21/11/2006	24/10/2006	13/12/2006	40.00.MUDFA/AH/AS/FH 40.00.OLT.002673 AMIS letter 074			CCTV Sewers - Line 1							tie propose use of Scottish Water's Framework Contractors to carry out work				AMIS letter 130, estimate submitted AMIS letter 203 (stand down)
	1.1	Water		01/03/2007		26/03/2007	DEL.MUDFA.150.SC AMIS letter 130			CCTV Sewers - Line 1 - Section 3B	N/A	27/03/2007	14,946.72		01/03/2007		Programme required. Estimate includes item 12 below.	AMIS			AMIS letter 130, estimate submitted
	1.2	Water		01/03/2007		26/03/2007	DEL.MUDFA.150.SC AMIS letter 130			CCTV Sewers - Line 1 - Section 1A	N/A	27/03/2007	Incl		01/03/2007		Programme required. Estimate included in item 1.1 above	AMIS	£14.947		AMIS letter 130, estimate submitted AMIS letter 177
	1.3	Water		13/03/2007		28/03/2007	DEL.MUDFA.183.SC DEL.MUDFA.250.AH.GB AMIS letter 168			CCTV Sewers - Line 1 - Section 5B	N/A				13/03/2007		Programme required. AMIS to provide details of what is included in the traffic management rate including details of the management included with in ht call in rate.	AMIS			AMIS letter 159, estimate submitted AMIS letter 168
	1.4	Water		13/03/2007		28/03/2007	DEL.MUDFA.183.SC DEL.MUDFA.250.AH.GB AMIS letter 168			CCTV Sewers - Line 1 - Section 5A	N/A				13/03/2007		Programme required. AMIS to provide details of what is included in the traffic management rate including details of the management included with in ht call in rate.	AMIS			AMIS letter 159, estimate submitted AMIS letter 168
	1.5	Water		13/03/2007		28/03/2007	DEL.MUDFA.183.SC DEL.MUDFA.250.AH.GB AMIS letter 168			CCTV Sewers - Line 1 - Section 7A	N/A				13/03/2007		Programme required. AMIS to provide details of what is included in the traffic management rate including details of the management included with in ht call in rate.	AMIS			AMIS letter 159, estimate submitted AMIS letter 168
	1.6	Water				19/03/2007	DEL.MUDFA.207 DEL.MUDFA.250.AH.GB AMIS letter 168			CCTV Sewers - Section 1A(2)	N/A				19/03/2007		Programme required. AMIS to provide details of what is included in the traffic management rate including details of the management included with in ht call in rate.	AMIS			AMIS letter 159, estimate submitted AMIS letter 168
	1.7	Water				19/03/2007	DEL.MUDFA.207 DEL.MUDFA.250.AH.GB AMIS letter 168			CCTV Sewers - Section 7A	N/A				19/03/2007		Programme required. AMIS to provide details of what is included in the traffic management rate including details of the management included with in ht call in rate.	AMIS			AMIS letter 159, estimate submitted AMIS letter 168
	1.8	Water				19/03/2007	DEL.MUDFA.207 DEL.MUDFA.250.AH.GB AMIS letter 168			CCTV Sewers - Section 5C	N/A				19/03/2007		Programme required. AMIS to provide details of what is included in the traffic management rate including details of the management included with in ht call in rate.	AMIS			AMIS letter 159, estimate submitted AMIS letter 168
	1.9	Water				02/04/2007	DEL.MUDFA.272.AH.GB AMIS letter 168			CCTV Sewers - Section 1D	N/A				02/04/2007		Programme required. AMIS to provide details of what is included in the traffic management rate including details of the management included with in ht call in rate.	AMIS	£76,836		AMIS letter 159, estimate submitted AMIS letter 168
	1.10	Water				05/04/2007	DEL.MUDFA.312.AH.GB			CCTV Sewers - Section 1B Part 1 of 2	N/A				05/04/2007		Programme required	AMIS			AMIS Letter not required. continuation of 1.1 to 1.9 above
		Water		12/01/2007		13/02/2007	40.00.OLT.003079 AMIS letter 089			Survey of Sewer Manholes at Gogar Depot	26/01/2007						AMIS to provide details of costs	AMIS		£1,323	Works complete, awaiting further cost substantiation
		Gas		19/01/2007		16/02/2007	40.00.OLT.003170/AS/TE AMIS letter 089 AMIS letter 125			Survey of Gas Steel Service Pipes		22/03/2007	12,251.50	Y	28/03/2007		AMIS proceeding on basis of Estimate	N/A		£12,252	AMIS letter 125, estimate submitted
		PC Services			30/10/2006	31/10/2006	N/A AMIS letter 009	PCS	N/A	PC Services - Martin Meehan (Susan Clark)			9,483.29		N/A		Agreed S Clark/A Malkin 29 days @ £327.01	N/A		£9,483	Agreed
	5.1	Preflms		14/02/2007		12/12/2006	DEL.MUDFA.047.SC AMIS letter 137			Provide 5 no. site vehicles for the exclusive use of tie's staff	15/03/2007	30/03/2007	WEEKLY RATES				Fulfil Estimate information to follow. Measure and value as "extraover" AMIS contract allowances. Re-submit Estimate	AMIS		£53,715	AMIS letter 137, estimate submitted. Items to be measured on completion AMIS letter 184
	5.2	Preflms		01/03/2007		29/03/2007	DEL.MUDFA.151.SC AMIS letter 137			Provide 4 No. Additional telephone handsets for tie site offices			0.00		N/A		To be valued with Change No. 32 below	N/A		£0	See CN 032
	7.1	Inglston Depot			28/11/2006	12/12/2006	AMIS letter 054 AMIS letter 080 AMIS letter 116			Proposed temporary extension to Inglston Park and Ride		12/12/2006	491,560.00 299,998.50				Change Order required from tie. It works are to go ahead (L. Murphy) Design currently being re worked by tie	tie		£7,129	Awaiting tie works order (see CN 030). Site investigation in application
	7.2	Inglston Depot			31/01/2007		AMIS letter 077		N/A	Trail investigations at car park. Limit of authority to spend = £6,000							Estimate required	AMIS		£234,479	AMIS letter 172 AMIS letter 127 Awaiting tie works order (see CN 030)
	8	Enabling			08/11/2006	04/12/2006	40.00.OLT.003115/AS/TE			SDS Trial Holes - Under Review							Find AMIS' submission. Tie / SDS to confirm if this works will be required.	tie		?	AMIS rates submitted to SDS, #.MIS awaiting CN before estimate can be raised
	9	Preflms			14/11/2006	12/04/2007	AMIS letter 166			PC Services - Requirement of Management input to Design Detail and Definition (RATS process)							Response to AMIS letter required	tie		?	AMIS letter 166 sent
	10				14/11/2006	24/01/2007	e-mail T. Edgar to A Malkin AMIS letter 079 DEL.MUDFA.125.SC			tie office requirements - vehicles & IT (Dedicated printer / scanner)							Agreed No Financial Effect (03/04/2007)	N/A		£0	Melterclosed
	11				14/11/2006					Construction Services Programme Rev.001 imposing Stakeholder requirements							Substantiation of principle required.	AMIS		?	EW only, new change notice to be raised for Tender - Rev03 AFA, Rev03 AFA - Rev 05 AFA, KG to produce doc See CN 008
	12				28/11/2006					MUDFA trial holes - proposals							Included in item 8 above	N/A		?	N/A
	13				28/11/2006					Electronic copies of Non-PCS Deliverables							Agreed No Financial Effect (03/04/2007)	N/A		£0	N/A
	14				05/12/2006					Traffic Management - Specialist Summary							Agreed no longer required	N/A		?	N/A
	15				05/12/2006					EARL Design & Construct Proposal							Early Warning only	N/A		£9,800	AMIS budget cost submitted, if successful will probably be a separate contract.

Multi-Utilities Diversion Framework Agreement Change Summary

APPENDIX 2 (2/2)

Notice of Change										Estimate Submission Procedure				Change Order (tie)			AMIS Comment				
Change Reference	Sub Reference	Generic Description	WBS Code	Date notified by tie OR	Date raised by AMIS	Date of further Letters	Letter Ref.	Work Sector	Work Section	Brief Description	Date Estimate Required (Clause 48.3)	Date Estimate Provided (Clause 46.4)	£ Estimate	Estimate Agreed?	Date Issued by tie OR	Notice of Change withdrawn	Further Action(s) Required	Action by?	CN's to be submitted	Estimated Value (£000's)	Status
16					07/12/2006					Increased initial stock holding to offset preliminary design risk and safeguard production (LUL)							Early Warning only To be notified on a case by case basis.	AMIS	?	Will be dealt with as occasion arises	
17					08/01/2007					Inglston Park and Ride - Emergency Works - Roof Reinstatement							Price agreed as original Estimate (L. Murphy) To be invoiced separately i.e. not through MUDFA Contract.	N/A	£4,407	AMIS paid on account, costs need to be supported, letter drafted	
18					25/01/2007					Replacement of steel gas pipes following surveys carried out under Change No. 3 above.							Early Warning only. AMIS will submit estimate upon receipt of full survey report detailed in CO 3	N/A	?	Works will be determined from survey in 3 above	
19					25/01/2007	11/04/2007	AMIS letter 163			Additional to Pre-construction Services; assistance and supply of SDs Design Drawings Reproduction	N/A	N/A					AMIS to forward details of instruction received by tie	AMIS	£248	AMIS Letter 163 sent	
20					25/01/2007	03/04/2007 09/04/2007	AMIS Letter 150 DEL MUDFA 318.MH.GB										Establish principle of change. There is no obligation under the contract for tie to provide this, tie consider this to be part of the £5k paid for office consumable under PCS	AMIS	£1,509	AMIS letter 190 AMIS letter 150 sent	
21			IA WSE 003		07/02/2007					Expenditure against provisional sum 215h for removal of contaminated material encountered at Casino Site trial site.							Early Warning only Check TIE Provisional Sum	tie	?	EW only until extent is determined	
22					07/02/2007					Team building event							AMIS to provide details and substantiation of costs claimed	AMIS	£1,829	AMIS letter 175	
23					08/02/2007					Report periods to be every for weeks rather than monthly, i.e. 13 par annum							Refer to Schedule 1 clause 3.6 of MUDFA Agreement - anticipates 4 weekly reporting. Agreed No Financial Effect (03/04/2007)	N/A	£0	NFE, superceded by events	
24					08/02/2006					SL Andrews Square, additional non MUDFA works							Early Warning only	N/A	?	AMIS letter & estimate to be compiled	
25		P.C. Sums		19/02/2007		12/04/2007 20/04/2007	DEL MUDFA 064.SC AMIS letter 165 DEL MUDFA 391.MH.GB	N/A	N/A	Transfer of responsibility for Scottish Power works to AMIS	05/03/2007						Clarification requested from AMIS on premium price for early delivery.	AMIS	?	AMIS letter 178 AMIS letter 165 sent	
26		BT Works		18/02/2007		28/03/2007 02/04/2007 11/04/2007	DEL MUDFA 065.SC AMIS letter 138 DEL MUDFA 268.MH.SC AMIS letter 164			Provision of resources to support BT Openreach survey works	05/03/2007	28/03/2007 11/04/2007	DAY RATE DAY RATE	N N			Issues to be discussed. AMIS to substantiate 2 supervisors for 1 labourer as detailed in the rate build up.	tie/AMIS	?	AMIS letter 208 AMIS letter 164 sent	
27		Programme		14/02/2007		19/02/2007	AMIS letter 103			Programme Revision #3 (Stakeholder imposed programme)							Substantiation of principle required.	AMIS	?	See also 11 above, letter to be drafted	
28	28.1	Gogar Depol			05/04/2007		DEL MUDFA 306			Advance Works - mass excavation de-vegetation/wheel wash etc					05/04/2007		Change Order issued			Included below	
28	28.2	Gogar Depol			19/03/2007	21/03/2007 22/03/2007 25/04/2007	AMIS tie/letter/AM/GOGAR/001 AMIS tie/letter/AM/GOGAR/002 AMIS tie/letter/AM/GOGAR/003 DEL MUDFA 414.AH.GB	N/A	N/A	Advance Works - mass excavation.	21/03/2007		3,132,479.26 3,079,487.39	Y	25/04/2007		Change Order issued		£134,574	Advanced Works Order received from tie, later construction works lba	
29		Water			20/03/2007	26/03/2007 25/04/2007	AMIS letter 126 DEL MUDFA 240 DEL MUDFA.....			Water services survey for earthing of properties - full length of route for lines 1 and 2.	27/03/2007		386,950.00		25/04/2007		Change Order issued		£11,168	received tie CN, response to technical issues required	
30		Inglston Depot				06/03/2007 22/03/2007 30/03/2007	AMIS letter 118 AMIS letter 127 AMIS letter 143			Advance Works only (footpath, manholes and road signs).	22/03/2007		17,756.21 40,634.21				Issue Change Notice (if required). AMIS to substantiate rates detailed in the estimate	tie/AMIS	£58,390	AMIS quote for advanced works submitted, tie require issue addressed, Roddy says park for now	
31	31.1	Trial Area			29/03/2007	02/04/2007 13/04/2007 25/04/2007	AMIS letter 135 DEL MUDFA 269.MH.SC AMIS letter 171 DEL MUDFA 416.AH.GB	IA	3	Archaeological watching brief during excavation works.			DAILY RATE				Issues to be discussed	tie/AMIS	?	AMIS letter 171 sent	
31	31.2	Gogar Depol				25/04/2007	DEL MUDFA 417.AH.GB			Archaeological watching brief during excavation works.							Issues to be discussed	tie/AMIS			
32		Preliminaries			28/03/2007	29/03/2007 02/04/2007	DEL MUDFA 249.GB AMIS letter 139 DEL MUDFA 270.MH.SC	N/A	N/A	Additional accommodation and facilities required for tie personnel	11/04/2007	29/03/2007	10,833.70				Issues to be discussed	tie/AMIS	£10,834	AMIS letter 173 sent	
33		Environmental			27/03/2007	29/03/2007 11/04/2007	AMIS letter 138 DEL MUDFA 342.1C.GB	N/A	N/A	Build new badger set. Destroy existing set in Gogaraea.	10/04/2007	30/03/2007					Issues to be discussed - AMIS to substantiate rates contained within estimate.	tie/AMIS	£12,993	AMIS letter 191 AMIS quote for advanced works submitted, tie require issue addressed, Roddy says park for now	
34		Manholes			18/04/2007		DEL MUDFA 373.AH.GB			Unknown Manhole Surveys							Estimate required from AMIS	AMIS	£29,472	AMIS letter 199	



**MULTI-UTILITY DIVERSION FRAMEWORK  
 AGREEMENT (MUDFA)**  
 Relating to the  
**Edinburgh Tram Network**  
**Contract No. A150**

**ALFRED McALPINE  
 INFRASTRUCTURE SERVICES (AMIS)**  
  
**DOCUMENT No. A150/PM/PRJ-REP/EARL/001**  
  
**DOCUMENT TITLE :**  
  
**PROJECT MONTHLY REPORT**  
**MAY 2007 - EARL**

**VERSION No : 01**

**PAGE : 1 of 6**

<b>DOCUMENT OWNER : ANDREW MALKIN</b>							
						<b>CODE A, B OR C</b>	
<b>Andrew Malkin</b>	<b>17.05.07</b>		<b>18.05.07</b>		<b>18.05.07</b>		
<b>Author</b>	<b>Date</b>	<b>Checked</b>	<b>Date</b>	<b>Approved</b>	<b>Issue Date</b>	<b>Approved</b>	<b>Date</b>
<b>MUDFA AMIS PROJECT TEAM</b>						<b>Tie / Client</b>	





Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### AMIS MUDFA Project Monthly Report – Construction Services

### EARL UTILITY DIVERSION DESIGN & BUILD – PHASE 1

### Month 1 – May 2007 (Mobilisation Phase)

#### Contents

1. Executive Summary
2. Health and Safety, CDM, Quality and Environmental
3. Project Management of Scott Wilson Rail, SDS Provider & Jacobs Engineering Interfaces and Technical Support Services
4. Operations Management
5. Communications and Stakeholders
6. Design & Construction Planning and Project Controls
7. Contract and Commercial Management
8. Future EARL Developments

#### **Appendices :**

1. Design & Construction Services Programme (Level 1) – Next Period.

#### **Distribution :**

##### *tie Limited Project Management*

Matthew Crosse, Susan Clark, Steven Bell, Scott Prentice, Barry Cross, Suzanne Waugh, Tom Clark, Brian McCall, Tom Condie, Graeme Walker, Graeme Barclay (Chair), Phil Douglas, Allan Hill, John Low, Jim Johnson, John Casserly, Jim Sneddon & John McAloon.

##### *AMIS Project Management*

Andrew Malkin, Keith Gourlay, Graeme Strachan, Gil Clelland, Gerry Bannon, Stephen Clemenson, Stephen Crosbie, Mark Riley, Roddy Aves, Bill Murray, Ian Shanks, Catherine Gick, Taryne Lowe, John Cowan, AMIS Board (Alan Robertson), AMIS MUDFA Contract File & Neil Miller @ Jacobs Engineering (36 Copies in Total).



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 1. Executive Summary

Alfred McAlpine Infrastructure Services (AMIS) and Jacobs Engineering have commenced working on the Edinburgh Airport Rail Link (EARL) utility diversion works in May 2007.

The majority of effort has been in support of site investigations and liaison with BAA, Edinburgh engineering team. In the next reporting period the AMIS MUDFA team will concentrate on the central coordination of all design and technical interfaces and the formation of the baseline data.

### 2. Health and Safety, CDM, Quality and Environmental

#### *Main Achievements Within the Reporting Period*

- No major accidents. Accident Frequency Rate (AFR) = 0.
- No near misses reported.

#### *Activities Planned for Next Reporting Period*

- Establish tie Limited as Planning Supervisor (Ref. Graeme Walker).
- Complete BAA, Edinburgh safety inductions (AMIS/JE team).
- Update and issue the Jacobs Engineering health and safety plan.
- Review integration aspects associated with the environmental plans.

#### *Areas of Concern & Key Highlights*

- Availability of SDS HAZID Log for EARL scope of work.

### 3. Project Management of Scot Wilson Rail, SDS Provider & Jacobs Engineering Interfaces and Technical Support Services

#### *Main Achievements Within the Reporting Period*

- Technical and clarification review meeting held between tie Limited, AMIS MUDFA and Jacobs Engineering on Thursday 17<sup>th</sup> May 2007.
- SDS Provider utility diversion design drawings (Section 7) issued to Jacobs Engineering for information.

#### *Activities Planned for Next Reporting Period*

- tie Limited to appoint dedicated EARL Project Manager.
- Kick-Off meetings to be held and management coordination system agreed.
- Agree schedule of technical interface, planning and progress reporting meetings.



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### **Areas of Concern & Key Highlights**

- Availability and configuration of consolidated design and engineering information for EARL utilities (i.e. Basis of Design).

## **4. Operations Management**

### **4.1 Construction Services**

#### ***Main Achievements Within the Reporting Period***

- Site investigations carried out to establish workscope and boundary limits between BAA, Engineering, AMIS MUDFA and Jacobs Engineering.
- Meeting held with Scottish Power technical specialists to review scope and capability demands for the tunnel boring equipment, tunnel fans, power and utility supplies and cable running North/South to A8 carriageway.
- Meeting held with Aiden survey technicians to fully understand the scope of site surveys and data acquisition process.

#### ***Activities Planned for Next Reporting Period***

- Complete site investigations and verify Aiden survey data as baseline.
- Mobilisation of site offices at BAA, Edinburgh and Callandar Park and associated facilities.

### **Areas of Concern & Key Highlights**

- Nothing to report.

### **4.2 Traffic Management**

#### ***Main Achievements Within the Reporting Period***

- Nothing to report.

#### ***Activities Planned for Next Reporting Period***

- No activities planned.

### **Areas of Concern & Key Highlights**

- Nothing to report.

## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 4.3 Materials, Supply Chain Management & Site Services

#### *Main Achievements Within the Reporting Period*

- Long lead items advised to tie Limited (i.e. HV power cables and switchgear).
- New Eastfield Bridge now confirmed as being designed by Scot Wilson Rail (Design completion date 21<sup>st</sup> August 2007 – Date impacts on MUDFA EARL utility programme) and construction to be carried out by BAA, Edinburgh preferred construction contractor. AMIS MUDFA would like to consider options.

#### *Activities Planned for Next Reporting Period*

- Develop detailed listing of long lead items and procurement activities complete with constraints for review with the tie Limited EARL Project Manager.

#### *Areas of Concern & Key Highlights*

- Nothing to report.

### 5. Communications and Stakeholders

#### *Main Achievements Within the Reporting Period*

- tie Limited and AMIS MUDFA communications team advised of Jacobs Engineering design activities.
- tie Limited health, safety and environmental advisors informed of the planned works and activities at EARL on Wednesday 16<sup>th</sup> May 2007.

#### *Activities Planned for Next Reporting Period*

- Programme will be advised to project team by end May 2007.

#### *Areas of Concern & Key Highlights*

- Nothing to report.

### 6. Design & Construction Planning and Project Controls

#### *Main Achievements Within the Reporting Period*

- Original baseline programme has slipped from 2<sup>nd</sup> April 2007 to 18<sup>th</sup> May 2007. Impact on design and construction activities and constraints to be fully considered and advised in next reporting period.

#### *Activities Planned for Next Reporting Period*

- Review and agree final design and construction programme taking into account all interfaces with other associated design teams and airport operations.



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### **Areas of Concern & Key Highlights**

- Nothing to report at mobilisation stage.

## **7. Contract and Commercial Management**

### **Main Achievements Within the Reporting Period**

- tie Limited, AMIS MUDFA and Jacobs Engineering held a clarification meeting on Thursday 18<sup>th</sup> May 2007. The meeting was productive and informative.
- tie Limited agreed to release Work Order 01 (£143,910.00 + £8,250.00) on Friday 25<sup>th</sup> May 2007 latest.
- tie Limited, AMIS MUDFA and Jacobs Engineering to agree back-to-back commercial arrangements based on "Orange Book" professional services agreement. Main focus will be on design liability and professional indemnity.

### **Activities Planned for Next Reporting Period**

- Agree follow on works orders for the entire Jacobs Engineering EARL design services and early utility diversion works.
- Complete first payment application (Approximately £75,000).

### **Areas of Concern & Key Highlights**

- tie Limited, AMIS MUDFA and Jacobs Engineering to review caveats and exceptions to work order scope and definition.

## **8. Future EARL Developments**

- North EARL (Phase 2) utility design and build : Approximately £15M.
- New Eastfield Bridge build : Approximately £0.5M (Budget).

### **Appendices :**

1. Design & Construction Services Programme (Level 1) – Next Period.



**MULTI-UTILITY DIVERSION FRAMEWORK  
 AGREEMENT (MUDFA)**  
 Relating to the  
**Edinburgh Tram Network**  
**Contract No. A150**

**ALFRED McALPINE  
 INFRASTRUCTURE SERVICES (AMIS)**  
  
**DOCUMENT No. A150/PM/PRJ-REP/GOGAR/001**  
  
**DOCUMENT TITLE :**  
  
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**MAY 2007 - GOGAR DEPOT**

**VERSION No : 01**

**PAGE : 1 of 9**

**DOCUMENT OWNER : ANDREW MALKIN**

						CODE A, B OR C	
Roddy Aves	17.05.07		18.05.07		18.05.07		
Author	Date	Checked	Date	Approved	Issue Date	Approved	Date
MUDFA AMIS PROJECT TEAM						Tie / Client	



Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### AMIS MUDFA Project Monthly Report – Construction Services

### GOGAR DEPOT ADVANCED WORKS – PHASE 1

### Month 1 / 2 – April / May 2007 (Mobilisation)

#### Contents

1. Executive Summary
2. Health and Safety, CDM, Quality and Environmental
3. SDS Design Interface and Technical Support
4. Operations Management
5. Communications and Stakeholders
6. Construction Planning and Project Controls
7. Contract and Commercial Management
8. Future Gogar Depot Developments

#### **Appendices :**

1. Construction Services : Phase 1 Mass Excavation Works Programme, Rev D  
(1 Page)
2. AMIS MUDFA Gogar Depot Change Control Register (1 Page)

#### **Distribution :**

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## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 1. Executive Summary

Alfred McAlpine Infrastructure Services (AMIS) completed the vegetation clearance, site perimeter fencing and mobilisation phase within the reporting period and has commenced bulk earthworks services at the Gogar Depot (SDS Provider designated Section 6).

The AMIS MUDFA bulk earthworks services have been delayed by approximately one week due to the splitting out of tie Limited work orders 28.1 and 28.2, and the impact on overall timescale and cost will be assessed during the next reporting period.

At the report cut-off date of 18<sup>th</sup> May 2007 operations were well established and a number of improvements are being considered and discussed internally for implementation.

### 2. Health and Safety, CDM, Quality and Environmental

#### *Main Achievements Within the Reporting Period*

- No major accidents. Accident Frequency Rate (AFR) = 0.
- Near miss formally reported ( 30 mtrs. of perimeter fence blown down).
- tie Limited safety inspection conducted 9<sup>th</sup> May 2007. Actions in hand.
- Safety inductions at Gogar Depot successfully completed.
- Gogar Depot environmental and archaeological actions in hand.

#### *Activities Planned for Next Reporting Period*

- Complete actions resulting from tie Limited unannounced safety tour.
- Focus on A8 carriageway potential mud build-up and compaction.
- Complete AMIS MUDFA director safety tour.
- Continuously monitor all environmental aspects.
- Carry out haulage vehicle checks and compliance verifications.

#### *Areas of Concern & Key Highlights*

- Availability of HAZID Log data for Gogar Depot site (excavation areas).
- Potential build-up of mud on A8 carriageway (potential accident zone).





Infrastructure Services



## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 3. SDS Design Interface and Technical Support

#### *Main Achievements Within the Reporting Period*

- Technical HAZID assessment required for excavations below grade level.
- SDS Provider utility diversion detailed design drawings required for MUDFA phase. AMIS MUDFA has issued early correspondence request.

#### *Activities Planned for Next Reporting Period*

- Commence technical and commercial planning for next phase of the works.
- Commence drafting of work orders for follow on phases.
- Obtain SDS detailed utility design drawings at IFC issue, complete with Bill of Materials (BOM's), C4 estimates and SUC approvals.

#### *Areas of Concern & Key Highlights*

- Availability of SDS Provider and SUC approved utility diversion designs for latest scheme and developments at Gogar Depot (Section 6).
- SUC uncharted services information required from tie Limited / SDS Provider.

### 4. Operations Management

#### 4.1 Construction Services

#### *Main Achievements Within the Reporting Period*

- Perimeter fencing completed and secured.
- Protection of the existing High Pressure (HP) gas main completed.
- Location and marking out services completed.
- Site entry and egress haulage roads complete.
- Soil loading areas increased to 2 No. (AMIS additional works).
- Protection slab cast and completed.
- Fly tipped materials at ink works slab sorted and classified ready for disposal.
- Lorry wheel wash completed, tested and commissioned at Gogar Depot.
- Lorry wheel wash and haulage roads complete at Craig Park.
- Approximately 900 No. lorry loads exported from site.

#### *Activities Planned for Next Reporting Period*

- Complete excavation and disposal of initial bulk earthworks (50,000 m<sup>3</sup>).
- Commence excavation and load out of site stock (100,000 m<sup>3</sup>).
- Commence excavation and load out of stock team 1 - 30% (15,000 m<sup>3</sup>).

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- Commence pre-earthworks drainage (North).
- Approximately 4,800 No. lorry load exports (Note - Weather and stakeholder imposed and/or constraint dependencies).
- Mobilisation of site offices and facilities.

### ***Areas of Concern & Key Highlights***

- AMIS MUDFA considering alternate disposal solutions and services (AMIS MUDFA internal).

## **4.2 Traffic Management**

### ***Main Achievements Within the Reporting Period***

- Traffic Management warning signs posted on the A8 carriageway per plans.
- Fly posters and advertisements removed from the perimeter fence and lamp posts.
- Traffic build-up, timings and phasing being monitored for planning purposes.

### ***Activities Planned for Next Reporting Period***

- Introduce traffic improvement initiatives on A8 carriageway if required.

### ***Areas of Concern & Key Highlights***

- Communications team briefed on potential mud build-up and public interface.

## **4.3 Materials, Supply Chain Management & Site Services**

### ***Main Achievements Within the Reporting Period***

- Materials, plant and lorries sourced and secured to meet agreed programme.
- Hippo wheel washes procured, installed and commissioned.
- Permanent water connection pipes, valves and connections ordered.

### ***Activities Planned for Next Reporting Period***

- Next phase heavy excavation plant to be delivered to site.
- Increase volume of haulage lorries and plant to be secured.
- Supply and installation of offices and site facilities.

### ***Areas of Concern & Key Highlights***

- No early visibility of Bill of Materials (BOM's) to assist with purchasing (MUDFA).

## MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

### 5. Communications and Stakeholders

#### *Main Achievements Within the Reporting Period*

- **tie** Limited and AMIS MUDFA communications team advised of planned and ongoing operations.
- CEC aware of operations through licence application process and interface meetings.

#### *Activities Planned for Next Reporting Period*

- Tram helper scheduled on familiarisation visit to assist with any customer inquiries or concerns that may arise over the next two months.

#### *Areas of Concern & Key Highlights*

- Sensitivity surrounding elections influencing low-key operations at site and no AMIS or Edinburgh Tram branding permitted.

### 6. Construction Planning and Project Controls

#### *Main Achievements Within the Reporting Period*

- Mass excavation programme baselined and formally issued to **tie** Limited (See Appendix 1).
- Overall progress 18.0%. Mobilisation substantially complete in period.

#### *Activities Planned for Next Reporting Period*

- Physical % progressing of bulk excavation works and addressing any programme deviations. Topographical surveys completed and submitted to **tie** Limited.
- Introduce any potential left-shift initiatives to secure programme.
- Advise **tie** Limited of cost implications in proactive manner.

#### *Areas of Concern & Key Highlights*

- Late availability of setting out coordinates for site strip/excavations and depth/levels may lead to potential delays and cost escalations.

### 7. Contract and Commercial Management

#### *Main Achievements Within the Reporting Period*

- **tie** Limited and AMIS MUDFA operations and commercial discussions being held on a regular basis.

## **MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)**

- AMIS MUDFA contract change register established and up to date (Current value approximately £80,000). See Appendix 2.
- tie Limited approving CVI's in timely manner to support programme.
- AMIS MUDFA first payment application submitted at £132,000.

### ***Activities Planned for Next Reporting Period***

- Review and agree contract changes in terms of content and value.
- Complete second payment application (Approximately £950,000).

### ***Areas of Concern & Key Highlights***

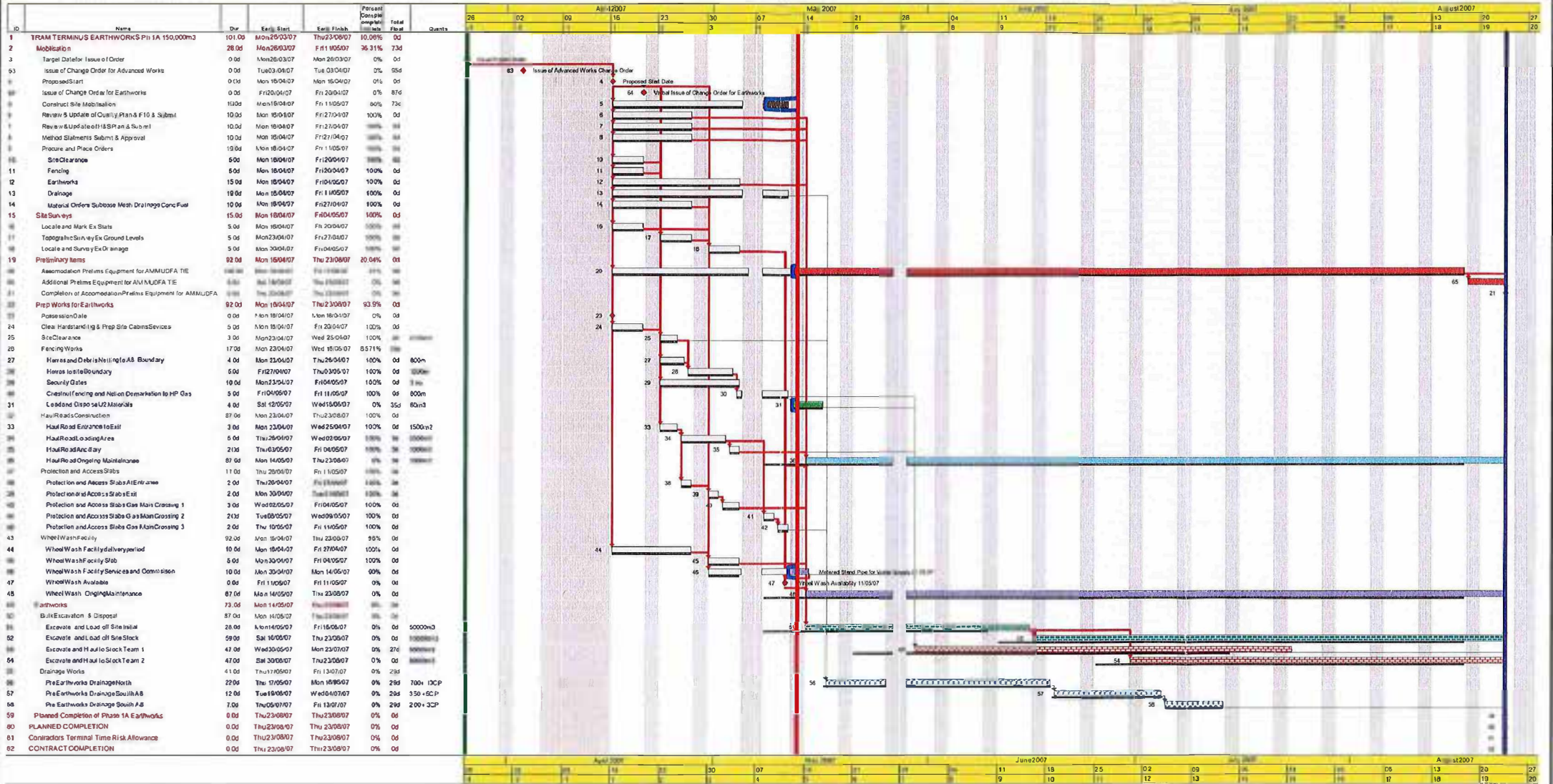
- tie Limited and AMIS MUDFA to review caveats and exceptions to work order scope and definition.

## **8. Future Gogar Depot Developments**

- Gogar Depot (Phase 2) deep excavation works : Approximately £4-5M.
- Gogar Depot (Phase 3) main gas line diversion : Approximately £1.5-2M.
- Gogar Depot (Phase 4) grading & compaction works : Approximately £1.5-2M.
- Gogar Depot (Phase 5) permanent drainage and advanced civil works (i.e. in ground works) : Approximately £4.5-5M.
- Gogar Depot (Phase 6) permanent civil and structural works (i.e. depot complex) : Approximately £12-14M.

### **Appendices :**

1. Construction Services : Phase 1 Mass Excavation Works Programme, Rev D  
(1 Page)
2. AMIS MUDFA Gogar Depot Change Control Register (1 Page)



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T.I.E.

<b>Notes:</b>	
Thu 15/03/07	Initial Excavation Programme 16/03/07
Wed 21/03/07	Phase 1A Works 150000m3
Fri 27/04/07	Re- Revised Slab & Wheel Wash Service Availability Date
Fri 11/05/07	Progress to 14/05/07

Drwg. No. TIE/ GTD / 002/ Pr	Rev. D
DRAWN. MSL	DATE: Fri 11/05/07



APPENDIX 2  
PAGE 9/9

Infrastructure Services

PVN No.	Description	Amount	Comments
1	CVI 06301 - Provision of Porta'oo	-	Nil Value - Issued pre main order, Costs covered in Main order
2	CVI 06302 - Provision of Welfare Cabin	-	Nil Value - Issued pre main order, Costs covered in Main order
3	CVI 06303 - Early Mobilisation of one Gate Unit	£900.00	
4	CVI 06304 - Early Mobilisation of Ecologist	-	Nil Value - Issued pre main order, Costs covered in Main order
5	CVI 06305 - Additional Bush Clearance	£1,300.00	
6	CVI 06306 & 06310 - Stone wall material to be kept on site	£1,561.36	
7	CVI 06307 - Repositioning of Fence	£2,251.75	
8	CVI 06308 - Issue 2 Keys to BAA	-	Confirmation of action only
9	CVI 06309 - Disposal of Fly Tipped Material (increase in what was priced)	£41,601.22	
10	3rd May half day stand down, see AMIS MUDFA correspondence AMIS/tie/letter/ERA/GOGAR/024	£3,752.86	
11	CVI 06311 - Fence Alignments	-	Confirmation of action only
12	CVI 06312 - Rail Impact Barriers	£8,318.40	As Per Quote Supplied previously & Approved under Change Order 28.3
13	CVI 06313 - Water supplies	£3,642.00	
14	CVI 06314 - Topo Survey	£1,244.63	
15	Contract Change Order split into 2 (namely 28.1 & 28.2) this imposed a weeks delay into the programme between orders and thus extended programme one week	tbc	Impact to be assessed upon project closure to determine overall Schedule impact.
16	Contractors All Risk Insurance Cover - Hippowashes, as instructed by Mr. John Casserly on 7th May 2007	£1,000.00	Assessment - substantiation to follow upon receipt
17	Change Order 31.2; Provision of Archaeologist Services	£8,300.00	Assessment, based on 24 days, 2 days a week and appropriate report preparation. No allowance made for impact on productivity of trial holes, or cost of plant / machinery / labour associated with supporting the requirements of the Archaeologist.
<b>Variation Total =</b>		<b>£73,872.21</b>	
	Insurance @ 2.8%	2,068.42	
	OHP @ MUDFA 8.8%	6,500.75	
<b>Grand Total of Variations =</b>		<b>82,441.39</b>	