

**Bilfinger Berger – Siemens – CAF Consortium : Edinburgh Tram Network  
Meeting Notes**

|                              |                             |  |                     |
|------------------------------|-----------------------------|--|---------------------|
| <b>Subject</b>               | General Design Issues       | <b>Location</b>                                | Project Office      |
| <b>Date</b>                  | 16 <sup>th</sup> April 2009 | <b>Time</b>                                    |                     |
| <b>Attendees</b>             | <b>Representing</b>         | <b>Attendees</b>                               | <b>Representing</b> |
| Alan Dolan<br>Orlando Jacobs | SDS<br>SDS                  | Colin Brady<br>Jim Donaldson<br>Alan Johnstone | BSC<br>BSC<br>BSC   |
| <b>Distribution</b>          | Attendees, SRo              |  |                     |

|          |   | <b>Action</b>  | <b>Date</b>  |
|----------|---|--|--|
| <b>1</b> | <b>Purpose of Meeting</b><br>(1) Review Road Pavement redesign status<br>(2) Update on current design issues  |  |  |
| <b>2</b> | <b>Road Pavement Redesign</b>   |  |  |
| 2.1      | ADo tabled a draft copy of Pavement Design Schedule (Appendix 7.1, r2) for review.  | <b>Note</b>  |  |
| 2.2      | BSC confirmed design priority for areas of redesign is as follows :- <ul style="list-style-type: none"> <li>Section 1C/D : Princes Street (Charlotte St to Mound and Mound to Waverley)</li> <li>Section 1B (Leith Walk)</li> <li>Section 1D (Haymarket to Charlotte Street)</li> <li>Section 1A2 (Tower Bridge/Victoria Bridge area)</li> </ul>  | <b>Note</b>  |  |
| 2.3      | Following actions agreed :- <ul style="list-style-type: none"> <li>Obtain Tie instructions on in-situ testing in areas other than Princes Street – either test now, on basis that any further reinstatement by MUDFA or others will be underwritten by Tie, or defer testing until areas are handed over.</li> <li>Issue specification for testing in above areas</li> <li>Instruct SDS to proceed with test supervision etc in released areas (subject to Tie instruction, 1<sup>st</sup> bullet)</li> <li>Instruct SDS to proceed with test interpretation and analysis (items 2 and 3 on design flowchart) for Princes Street</li> </ul> | <b>CBr</b><br><b>Ado</b><br><br><b>CBr</b><br><br><b>CBr</b> | <b>asap</b><br><b>end April</b><br><br><b>end April</b><br><br><b>asap</b> |
| 2.4      | Appendix 7.1 will be issued to BSC on 22/4/09, after QA/QC review.  | <b>ADo</b>   | <b>22/4/09</b>   |

|          |   |  |   |
|----------|---|--|---|
|          | BSC to establish with Tie how to deal with approval and CEC interface (Tie have confirmed that they wish to manage the CEC approval interface).   | <b>CBr</b>                             | <b>22/4/09</b>                            |
| 2.5      | BSC requested SDS to amend Appendix 7.1 to show surface course as HRA, not thin layer SMA   | <b>OJa</b>                             | <b>22/4/09</b>                            |
| 2.6      | BSC to provide following to SDS (to ADo) :- <ul style="list-style-type: none"> <li>• Leith Walk, marked up layout drawings showing reinstatement in carriageway</li> <li>• Mouchel Report – information on data disc</li> <li>• Test results in Leith Walk obtained by BSC, including FWD data</li> </ul> | <b>JDo</b><br><b>AJo</b><br><b>AJo</b> | <b>asap</b><br><b>asap</b><br><b>asap</b> |
| <b>3</b> | <b>Other Issues</b>   |  |   |
| 3.1      | Guided Busway <ul style="list-style-type: none"> <li>• OLE foundation GI specification reviewed – no comments by BSC</li> <li>• SDS to advise design programme for foundation design, first confirming likely pile diameter/length so BSC can commence planning and contractor procurement</li> </ul>     | <b>ADo</b>                             | <b>next week</b>                          |
| 3.2      | Embankment Earthworks design review.<br>Review of current proposals for soft material replacement, and verification that IFC design is robust/meets project requirements is ongoing. SDS to provide full update and confirmation of timescale at next Management Meeting on 22/4/09                       | <b>SDS</b>                             | <b>22/4/09</b>                            |
| 3.3      | Drawing Register<br>Register to be reviewed Dolan/Rotthaus today or tomorrow.<br><br>SDS commented that BSC requirements are not always consistent – SRO to check with design management team and confirm to ADo  | <b>ADo/SRo</b><br><br><b>SRo</b>       | <b>17/4/09</b><br><br><b>asap</b>         |
| 3.4      | MX Files<br>SDS believe issues are now resolved – will be reviewed in Management Meeting on 22/4/09.<br><br>ADo to check with S Nesbitt to seek agreement that issues are being resolved – can arrange a meeting with MX design team leader on 21/4/09 if necessary.                                      | <b>ADo</b><br><br><b>SNe/ADo</b>       | <b>22/4/09</b><br><br><b>21/4/09</b>      |

.../2

|     |   |   |  |
|-----|---|---|--|
| 3.5 | OLE Redesign Estimate (Development Workshop scope)<br>SDS to issue estimate by 23/4/09  | <b>ADo</b>                                | <b>23/4/09</b>                             |
| 3.6 | BSC (Siemens) letter confirming design data to be incorporated into SDS civil design – does not take Development Workshop process into account. SDS will respond – BB (CBr) to take issue up with Siemens.  | <b>CBr</b>                                | <b>asap</b>                                |
| 3.7 | Guided Busway redesign estimate<br>Issue on 17/4/09   | <b>ADo</b>                                | <b>17/4/09</b>                             |
| 3.8 | Vibration Assessment<br>SDS response to Siemens comments shows a misunderstanding has developed over track stiffness. ADo to discuss with K Dieker today.<br><br>Need to arrange a conference call with R Taylor and then a design review meeting to reconcile views and agree way forward. | <b>ADo</b><br><br><b>ADo/KDi<br/>/CBr</b> | <b>16/4/09</b><br><br><b>next<br/>week</b> |
|     |   |   |  |
|     |   |   |  |
|     |   |   |  |