Network Rail: Form C Submissions

The Guaranteed Maximum Price is based on the standard requirements for Form C submissions and on approvals being given in line with the Programme. tie shall assist the Infraco in obtaining all relevant approvals.

Third Party Agreements at Edinburgh Park and Airport

The timetable constraints as detailed in the Third Party Agreement licence with Edinburgh Airport Ltd. (EAL), other than agreeing respective completion dates for the approved packages are not applicable in executing the scope of Project Carlisle.

The existing New Edinburgh Ltd. (NEL) license has deadlines of 18 months (excluding Edinburgh Park Viaduct) and 24 months (at the viaduct), which are about to expire. For the purposes of the Guaranteed Maximum Price Infraco has assumed that the required timeframes can be agreed with NEL by **tie** / CEC to allow Infraco to construct, test and commission in accordance with the GMP Programme.

Any impact of these dates on the GMP Programme shall be dealt with separately as a tie Change and an appropriate tie Change Order will be issued.

Overall Traffic Management Model Approval

The Guaranteed Maximum Price is based on the drawings, specifications and schedules ("GMP Drawings"). The Infraco shall comply with the requirements of the Employer's Requirements. Any required Change to the Employer's Requirements or any preferential or other design changes required by CEC will be dealt with separately as a tie Change and an appropriate tie Change Order will be issued.

OLE Vehicle Impact Report

Infraco is responsible for obtaining CEC's acceptance and agreement. To date, CEC has not responded within the Approval Period as specified within the Infraco Contract. Any required Change due to late comments by CEC will be dealt with separately as a tie Change and an appropriate tie Change Order will be issued.

Lochside Avenue Junction

The Guaranteed Maximum Price is based on the drawings, specifications and schedules approved by CEC on 20 May 2010 and included in the electronic record of "GMP Drawings". The Guaranteed Maximum Price assumes no further comments or Informatives raised by CEC beyond those comments provided with the Approval of this design.

Changes to Traffic Regulation Orders (TROs)

tie is responsible for promotion and making of all necessary TROs to meet the PC Programme. tie confirms that Infraco have provided all necessary documentation and support required to support TRO 1 (defined as necessary for tram operations) for all on-street (Line 1) and off street (Line 2) sections. Further, Infraco is not responsible for the cost of any changes or amendments to any TRO documentation (drawings, schedules or reports) or to the design as a result of the TRO process or for any delays to the PC Programme due to a delay in the TRO process. Infraco is not responsible for the cost of any abortive works or delays due to the final "made" TRO impacting on the IFC design or changes to the GMP Drawings.

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Drainage Alignment Drawings (Off-Street)

Any changes required to the current design on the drawings, specifications and schedules ("GMP Drawings), including both the impact on design and in construction, shall be dealt with separately as a tie Change and an appropriate tie Change Order will be issued.

OLE Interface at Tower Place Bridge

The Guaranteed Maximum Price is based on the drawings, specifications and schedules ("GMP Drawings").

OLE Interface at Russell Road Retaining Walls 3 & 4

The Guaranteed Maximum Price is based on the drawings, specifications and schedules ("GMP Drawings").

Interface with Scottish Power at Depot

Meter arrangements and Local Power supply provider shall be in place by 12 July 2010.

Way-leave clarification shall be finalised and approved by tie by 12 July 2010.

Washing Plant

The Guaranteed Maximum Price is based on the Siemens proposal and the actual status of design. Any additional arrangements shall be subject to a tie Notice of Change and an appropriate tie Change Order will be issued.

Combined Poles

The Guaranteed Maximum Price includes all pole extensions required to allow for the implementation of the street lighting integrated with the OLE poles for the original scope of work as indicated on the IFC drawings. The installation of the extensions and provision / installation of the street lighting beyond east end of Princess Street have to be performed by others.

Cable ducts

Cable duct connections between ETN and the Urban Traffic Control (UTC) and the City in View CCTV Control in a size of 150 mm diameter are not allowed in the Guaranteed Maximum Price due to an outstanding clarification on the right of way and the related design.

Noise & Vibration

Due to outstanding issues, the design and construction of the Floating Slab (Floating Track) as a Noise & Vibration protecting measures, no allowance has been made in the Guaranteed Maximum Price.

HV / LV Supplies

The Guaranteed Maximum Price includes the value confirmed in TNC 014. (INF CORR 2304/RB). Any modification required for the HV / LV supply shall be subject to additional TNC.

Utilities / Utility Works

The Guaranteed Maximum Price does not include for any Utilities, utilities or any Utilities Works that will be required to accommodate the Infraco Works other than those that have already been implemented through a tie Change Order.

Contaminated Materials

The Guaranteed Maximum Price does not include for dealing with contamination other than that which has been implemented through a tie Change Order. tie will be responsible for the risk associated with contaminated land, including contaminated materials and plants.

Below ground obstructions/voids

The Guaranteed Maximum Price does not include for any occurrence of archaeological findings, obstructions or voids below the original ground level other than those that have been implemented through a tie Change Order.

Trackbed & Foundation to Section 1D - Princes Street West to Haymarket

The Guaranteed Maximum Price is based on the "GMP Drawings".

Road Reconstruction to Section 1D - Princes Street West to Haymarket

The Guaranteed Maximum Price is based on the "GMP Drawings".

Duct Bank to City Chambers

No civil works have been allowed in the Guaranteed Maximum Price for any construction work from Princes Street to the City Chambers.

Design Assurance Statements

Infraco will carry out all necessary assurance statements, approvals and consents for the design, construction, testing and commissioning of the Edinburgh Tram Network in respect of those parts defined in this Proposal, with respect to the Safety Assurance Plan to enable tie to comply with ROGS and other key statutory requirements.

tie Change Orders

Infraco and tie are in the process of negotiating numerous tie Change Orders, however it is unlikely and unnecessary that they will be finalised prior to submission of this Proposal, in so far as the estimated amounts of these tie Change Orders have been incorporated in the GMP. Since Change Orders may have been issued after 30 June 2010 the GMP will require minor adjustment, as that the GMP only makes allowances for tie Change Orders issued prior to this date. However, in the instances where tie has issued Change Orders which contain qualifications, the qualifications remain valid and have been utilised in the development of the GMP.

Siemens' Materials and Equipment regarding the sections east of Terminal Point

The Guaranteed Maximum Price includes the value of all materials and equipment which Siemens has already ordered for the scope east of Terminal Point. The Guaranteed Maximum Price includes for delivery of all said materials and equipment, DDP (incoterms 2000) up to the defined projects warehouse in Edinburgh area. Arrangements

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have to be made by tie for taking over the project warehouse after completion of construction works for the initial phase or the transport of materials and equipment to other suitable locations.

An itemised and priced material schedule will be provided for the sections east of the Terminus.

The Guaranteed Maximum Price is based on Infraco providing irrevocable vested ownership of these materials and equipment in favour of CEC, including transfer of title, risk and custody at a date which shall not exceed the Section C, Sectional Completion Date identified on the Programme, Revision 1- refer to activity ID 1000 of the Programme. For clarity, this is the latest date at which the last material or equipment should have been incorporated into the Works under the Programme, Revision 1.

The Guaranteed Maximum Price is predicated on the "Project Carlisle Change order allowing the immediate payment, per the itemised material schedule and within 60 days after physical delivery to the projects warehouse, of each and every such material and equipment for the sections east of Terminal Point.

The Guaranteed Maximum Price includes for warranty for all the above materials and equipment, for a warranty period expiring on 10 March 2013, i.e. two years after the Section C, Sectional Completion Date identified on the Programme, Revision 1.

Due to missing timeframes, cost for storage of the materials and equipment after providing irrevocable vested ownership as defined above is excluded from the Guaranteed Maximum Price. Siemens do not have long term arrangements beyond the Section C, Sectional Completion Date identified on the Programme; Revision 1 for its outsourced storage facilities in the Edinburgh area, the Guaranteed Maximum Price only includes cost for storage of the materials and equipment at Siemens' own or subcontracted onshore and/or offshore facilities, for the above, until that date.

Tram Supply;

The Guaranteed Maximum Price includes for all costs incurred by CAF in storing trams at their factory in Spain (Option 1), and all other related costs (insurance, warranties etc) in accordance with Project Carlisle (See Appendix 1.3).

Designs Services (SDS)

Included in the Guaranteed Maximum Price is the cost for the preparation of all known works that the SDS Provider is currently aware of to complete the current scope. This includes the outstanding works relating to the original SDS design, design that has been subject to changes due to the alignment workshop process, changes requested by Infraco and changes driven by revised requirements from third party stakeholders and approvals bodies such as City of Edinburgh Council, tie, BAA, Forth Ports etc.

Also included in Appendix 1.4 CD, is a schedule of potential tie Changes that have been initiated, but for which, at the time of preparation of the Guaranteed Maximum Price, the scope was undefined. In these areas no instruction has been issued by tie. In most cases these tie Changes impact on a design that is complete, and compliant with the Employer's Requirements and the requirements of the Tram Design Manual, Third Party Agreements, CEC Standards and other core reference materials. These changes, if instructed, will result in changes to the GMP Drawings.

For the sake of clarity, these tie Changes have been excluded from the Guaranteed Maximum Price scope as it is recognised that it is entirely within the gift of tie to choose not to amend the current design presented and thereby mitigating cost and programme impact. Having reviewed the potential tie Changes for cost and programme savings we can see no added benefit in adopting the changes proposed in this schedule.

In preparing the Guaranteed Maximum Price, SDS has assumed that there will be no further changes required to the design, above and beyond those identified on the attached change schedules and as noted above. Given the exhaustive consultation approach that has been adopted with the relevant approvals bodies and the number of iterations of design that have been produced, comments received and subsequently incorporated, SDS believe the design to be robust and that all outstanding Technical and Prior Approvals could and should be granted by the relevant departments of the Approvals bodies without further change to the design. As such no allowance has been made for further design change in the production of the Guaranteed Maximum Price.

Specifically excluded from the Guaranteed Maximum Price are the following issues that at one point or another have been discussed, but not formalised or progressed by the Parties:

1. Stage E Landscape Drawings as per CEC Informative and Meeting held in September 2009;
2. South Gyle Access Bridge Detailed Design beyond Changes in S26 and W11 detailed in design as per DCR0133 feasibility report;
3. Tower Place Bridge design to reflect the removal of the ramp, concrete downstand, or revisions to the OLE, as per RDC154;
4. Forth Ports Section 1A fence alterations due to additional constraints in the Casino area;
5. Advanced Directional Signing for Constitution Street to address additional signs;
6. Lindsay Road phone mast construction conflicts;
7. Mounting of sign plates on buildings and railings;
8. Roseburn Street Viaduct curtain walls in lieu of the current fencing proposal at each abutment;
9. Murrayfield Tramstop Layout Changes to bollards, fence, and turnstiles;
10. Elder Street Junction redesign;
11. Picardy Place Detailed Design as per DCR0173 and DCR0221
12. Pedestrian Guardrail Changes;
13. Gogar Interchange name change to Edinburgh Gateway;
14. Relocation of the combined sewer at Gogar interchange.

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Completion Dates and Liquidated Damages

Liquidated Damages will apply at the Infraco Contract rates and as per the terms of the Infraco Contract. However, the Planned Sectional Completion Dates are as identified in GMP Programme in Appendix 5 and are defined in the Executive Summary.

Liquidated Damages associated with tram delivery / tram commissioning in the Tram Supply Novation Agreement, the Tram Supply Agreement, and the Infraco Contract shall not apply any more, since the necessary progress of the tram delivery and tram commissioning has been included in the revised dates for the Planned Sectional Completion. The agreed commissioning dates for the Trams should be linked in the completion dates.

Schedule Part 4 Pricing Assumptions

We believe that a joint review of the existing Specified Exclusions and Pricing Assumptions in Schedule part 4 is required to enable agreement to be reached on a substantially reduced list.

Maintenance

The maintenance GMP is based on the current design as detailed in the GMP Drawings. If this is later subject to a Change Order, including any change to the agreed split of responsibilities within Schedule Part 2, then this shall be valued in accordance with clause 80.6.

The GMP is based on the assumption that the total maintenance period does not exceed 10 years starting with the service commencement date for Section D (as described in Appendix 5.2).

In view of the Project Carlisle revisions, we do not believe that certain conditions remain appropriate and we therefore we would like to review and to discuss the incorporation of the following points with respect to the Maintenance Services:

1. Removal of the voluntary termination by tie clause (89), which leads to a 10 year maintenance contract period.

2. Removal of the cap applicable to indexation on Spare Parts and infrastructure mobilization amounts, currently capped at a maximum aggregate amount of 50,000GBP.

3. Indexation: shall be for the full scope of maintenance, including mobilisation and initial spares.

4. Introduction of a Benchmarking point (at 5 years) regardless of whether there is any change in applicable law.

5. Renegotiation of Liability caps, as defined in Schedule Part 1, in the Maintenance Cap .

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Maintenance Pricing

To reflect the Maintenance programming modifications required by Project Carlisle the Maintenance Pricing requires adjustment. The following Table identifies the Maintenance Pricing categories and Revised Amounts. Tram Maintenance and Mobilisation is included in the price provided by CAF, see APPENDIX 1.3 -CAF - Guaranteed Maximum Price Breakdown.

Maintenance Pricing

Infraco	**Value**
Infraco Maintenance limited to scope as defined in Infraco "Project Carlisle" Proposal	£25,133,013.00
Infraco Maintenance Mobilisation	£1,782,292.00
Infraco Maintenance	£26,915,305.00
Infraco Spare Parts	£1,013,090.00
Total Infraco	£27,928,395.00
CAF	**Value**
Tram Maintenance	TBA
Maintenance Mobilization	£2,275,806.00
Total CAF	TBA

TBA = To Be Adjusted by CAF/Tie when Km/year of operation is decided (it is presumed that the total amount will be below the minimum foreseen in Tram Maintenance Agreement table for price adjustment according to distance and will therefore require an agreement of the price per kilometre. If that is not the case, TMA prices will be applied)

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APPENDIX 5

INFRACO PROJECT CARLISLE PROGRAMME

5.0 Narrative

5.1 GMP Programme

5.2 Sectional Completion Dates

5.0 Narrative

General

The start date (data date) of the programme is 12 July 2010. For work activities currently under construction their actual progress at 12 July 2010 is taken as the start point of the programme.

Our 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. However construction work will be required outside the hours stated in the Code of Construction Practice for Rail Possessions, work on busy road junctions, works associated with piling at the A8 underpass, stringing catenary cables etc. Prior approval will be sought 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.

Version 59 of the SDS design programme has been used to establish milestone dates for the Issue for Construction drawings. We have assumed that there will be no amendments to the SDS design programme.

The programme is based on MUDFA having completed all works and all utilities being diverted that would conflict with INFRACO operations.

The scope of work considered is that for and set out in this Proposal. Therefore, this programme as set out in Appendix 5 was set up only with regard to the Project Carlisle Proposal and based upon the scope provided herein.

Section Completion Dates

Section 1A

The programme for the enabling works at Newhaven which includes Lindsay Road Retaining Wall and the lowering of Lindsay Road is an extract of the relevant sections of the proposed Programme Revision 3A. The construction sequence therefore relies upon the availability of the Forth Ports diversion road. This diversion route permits the simultaneous construction of Lindsay Road Retaining Wall W1A and the lowering of Lindsay Road whilst still maintaining traffic flows.

The GMP Programme assumes a commencement of work on 16 August 2010 for the lowering of Lindsay Road, any late commencement may impact the sectional completion date.

The Programme assumes that all necessary Utility diversions have been completed in this area prior to the Infraco Works commencing.

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The GMP Programme assumes that all 3rd Party approvals / licences will be in place for these works to commence in accordance on 3 August 2010, any late commencement may impact the sectional completion date.

The programme for Tower Place Bridge enabling works is extracted from the Programme Revision 3A and progressed to 12 July 2012. The programme only accounts for the tie relocation of utilities from North to South. Any delay in relocating the utilities, or additional works undertaken by tie may impact the sectional completion date.

Section 1C / 1D

The GMP Programme assumes that the terminal point for the works is the east end of Princes Street where the tracks are currently constructed to.

The programme for the track works from Lothian Road to Haymarket is extracted from the OSSA programmes.

The GMP Programme assumes commencement of the on street works between Lothian Road and Haymarket work on 6 September 2010, any late commencement may impact the sectional completion date.

The programme assumes that the all necessary utilities will be diverted and all approvals/ licences in place to enable these works to commence on 6 September 2010.

Work scope now allows for:

- Additional excavation and construction to full depth including a 600mm capping layer and disposal of surplus material.
- Traffic Management and access issues related to the loss of working street width as a result of increased excavation depth.
- Support to excavations due to adjacent live traffic.
- Ground improvements beneath the track slab.
- Protection of existing ductwork exposed as a result of the increased depth of excavation.
- Addition of an RC Improvement Slab.
- Additional traffic management constraints, parking bays, bus stops, and taxi bays within working areas.

Pedestrian traffic will be catered for by controlled crossing points at specified locations, yet to be mapped.

The works are scheduled with no risk allowances for the condition of the street handed over after MUDFA/Utility Works.

Full construction depth is allowed for in the programme, but issues with services conflicts as a result are not allowed for in the plan.

The Works are also not scheduled with any risk allowances for unforeseen issues e.g. below ground obstructions, voids, soft or contaminated material

The programme is planned using a 5 day effective working week and the phasing of the works is in accordance with current approved traffic management schemes. Calendars include August and Christmas Embargo periods together with site holidays, but no shutdown for summertime trades holidays (2 weeks).

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No demobilization and remobilization periods have been incorporated into the GMP Programme around embargo dates, as that the work areas will be secured utilizing the protective fencing and security services.

All the construction programmes assume that all MUDFA/Utility Works within the Works Areas are complete by the planned Commencement Dates. We understand that a "Utilities Conflict Schedule" is available; however no allowance for these activities is included. Any delays resulting from this may have a considerable effect on construction periods.

Section 2A

The GMP Programme assumes a commencement date of 9 August 2010 for the removal and replacement of soft ground, any late commencement may impact the sectional completion date.

Section 5A

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

The construction works in general are subject to Network Rail approval. An eight week (plus three week "cooling off period") has been assumed for all Network Rail form C approvals. A four week (plus three week "cooling off period) has been allowed for the approval of all Works Package plans. The programme generally shows the latest dates for these approvals.

The GMP Programme assumes tie will procure all necessary approvals to allow the commencement of demolition in Plots 96, 97, 101 & 102, before 9 August 2010, any late commencement may impact the sectional completion date.

Section 5B

The GMP Programme assumes a commencement date of 30 August 2010 for the track drainage works in Section 5B, any late commencement may impact the sectional completion date.

Section 5C

The GMP Programme assumes a commencement date of 30 August 2010 for the track drainage works in Section 5C, any late commencement may impact the sectional completion date.

The completion of the track and M & E works at the depot is dependent on the completion of the depot access bridge superstructure. The Programme assumes that the works to the depot access bridge will be accelerated to 7 days a week working from the 1 September 2010.

Section 6A

No comments.

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Section 7A

The Programme assumes that the settlement period for the Gogar Landfill Site will be limited to 3 months.

The Programme also assumes that BAA will grant a licence for works on their land to recommence on 24 August 2010.

Revisions to the W14 Retaining Wall, received on 16 July 2010, have required re-pricing by BSC, Sub Contractors, and Material Suppliers. At this time we believe the responsible response to this change is to include in the GMP the Conceptual Price provided by one Sub Contractor who is experienced in piling operations, of approximately £7MIO. This price is contingent upon the redesign of the piling components (Jumbo 610x36 pipe) to incorporate a more commonly available piling product (762x20 pipe). Additionally, the material will require delivery from Turkey. As such, the GMP shall be based upon these assumptions and risks, however should any of the assumptions change, Infraco reserves the right revise the costs associated with this area of work.

Immediate Action Items

There are a number of time critical activities which require procurement of authorizations as well as procurement of long lead time materials. We propose to meet with tie to discuss this particular issue, as well as similar issues, within the next few days in an effort to find an agreeable solution to avoid unnecessary impacts to the Programme. The following list is not all inclusive:

1. Commencement of work at Lindsay Road in Section 1A by 9 August 2010.
2. Removal and replacement of soft ground in Section 2A by 9 August 2010.
3. Permit to begin demolition in Section 5A by 9 August 2010.
4. Commencement of track drainage work in Section 5B and 5C by 30 August 2010.
5. Recommencement of work on BAA lands in Section 7A by 24 August 2010.
6. Finalisation of design to allow procurement of piling materials for Wall 14 C no later than 9 August 2010 to facilitate a 12 week fabrication and delivery requirement.

M. F

APPENDIX 5.1

INFRACO GMP PROGRAMME

See Attached Supplemental Information CD:

Appendix 5.1 – GMP Programme:
Project Carlisle Revision 00 (100729)
EDINBURGH TRAM NETWORK
Date 29-Jul-10
Pages 1 to 44

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Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Project Carlisle Programme (100729)		588d	12-Jul-10	19-Nov-12	0d
KEY DATES		426d	10-Mar-11	19-Nov-12	0d
1000	Deliver/ handover of all Siemens material to tie	0d		10-Mar-11*	0d
313	Section Completion A	0d		24-May-11	375d
314	Section Completion B	0d		15-Sep-11	296d
281	Construction Completion Phase 1a Edinburgh Airport to Haymarket	0d		22-May-12	1d
315	Section Completion C	0d		20-Aug-12	1d
310	Commencement of Revenue Service Phase 1a Edinburgh Airport to Haymarket	0d		19-Nov-12	0d
325	Section Completion D	0d		19-Nov-12	0d
COMMISSIONING PHASE EDINBURGH AIRPORT TO HAYMARKET		129d	22-May-12	18-Nov-12	0d
300	System Integration Test; Phase 1a Edinburgh Airport to Haymarket	30d	22-May-12	21-Jun-12	1d
301	Test Running and Driver Familiarisation; Phase 1a Edinburgh Airport to Haymarket	30d	21-Jun-12	21-Jul-12	1d
302	T1 Post Commissioning Test completed; Phase 1a Edinburgh Airport to Haymarket	0d		21-Jul-12	1d
302.1	Test Running and Driver familiarisation performance ramp up 1a Airport to Haymarket	30d	21-Jul-12	20-Aug-12	1d
302.2	T2 Performance Test completed; Phase 1a Edinburgh Airport to Haymarket	0d		20-Aug-12	1d
302.3	Approval of HMRI; Phase 1a Edinburgh Airport to Haymarket	0d		20-Aug-12	1d
302.4	Shadow running: Phase 1a Edinburgh Airport to Haymarket	90d	20-Aug-12	18-Nov-12	1d
302.5	T3 Pre-Operations Test Completed; Phase 1a Edinburgh Airport to Haymarket	0d		18-Nov-12	1d
TRAM DELIVERY & COMMISSIONING		259d	04-May-11	18-May-12	131d
Deliver & Commission First Tram		94d	04-May-11	15-Sep-11	120d
CAF-01(3)	Depot available for delivery of first Tram	0d	04-May-11		166d
CAF-02(3)	1st Tram Delivery & Inspection	1d	04-May-11	04-May-11	166d
CAF-03(3)	Commission First Tram	40d	21-Jul-11	15-Sep-11	131d
Deliver & Commission Remaining 26 Trams		185d	18-Aug-11	18-May-12	131d
CAF-04(3)	2nd Tram Delivery	0d	18-Aug-11		307d
CAF-05(3)	2nd Tram Commissioning	20d	18-Aug-11	15-Sep-11	307d
CAF-06(3)	3rd Tram Delivery	0d	18-Aug-11		307d
CAF-07(3)	3rd Tram Commissioning	20d	18-Aug-11	15-Sep-11	307d
CAF-08(3)	4th Tram Delivery	0d	18-Aug-11		307d
CAF-09(3)	4th Tram Commissioning	20d	18-Aug-11	15-Sep-11	307d
CAF-10(3)	5th Tram Delivery	0d	18-Aug-11		131d
CAF-11(3)	5th Tram Commissioning	20d	18-Aug-11	15-Sep-11	131d
CAF-12(3)	6th Tram Delivery	0d	26-Sep-11		285d
CAF-13(3)	6th Tram Commissioning	15d	26-Sep-11	17-Oct-11	285d
CAF-14(3)	7th Tram Delivery	0d	26-Sep-11		131d
CAF-15(3)	7th Tram Commissioning	15d	26-Sep-11	17-Oct-11	131d
CAF-16(3)	8th Tram Delivery	0d	26-Oct-11		263d
CAF-17(3)	8th Tram Commissioning	15d	26-Oct-11	16-Nov-11	263d
CAF-18(3)	9th Tram Delivery	0d	26-Oct-11		263d
CAF-19(3)	9th Tram Commissioning	15d	26-Oct-11	16-Nov-11	263d
CAF-20(3)	10th Tram Delivery	0d	26-Oct-11		131d
CAF-21(3)	10th Tram Commissioning	15d	26-Oct-11	16-Nov-11	131d

Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

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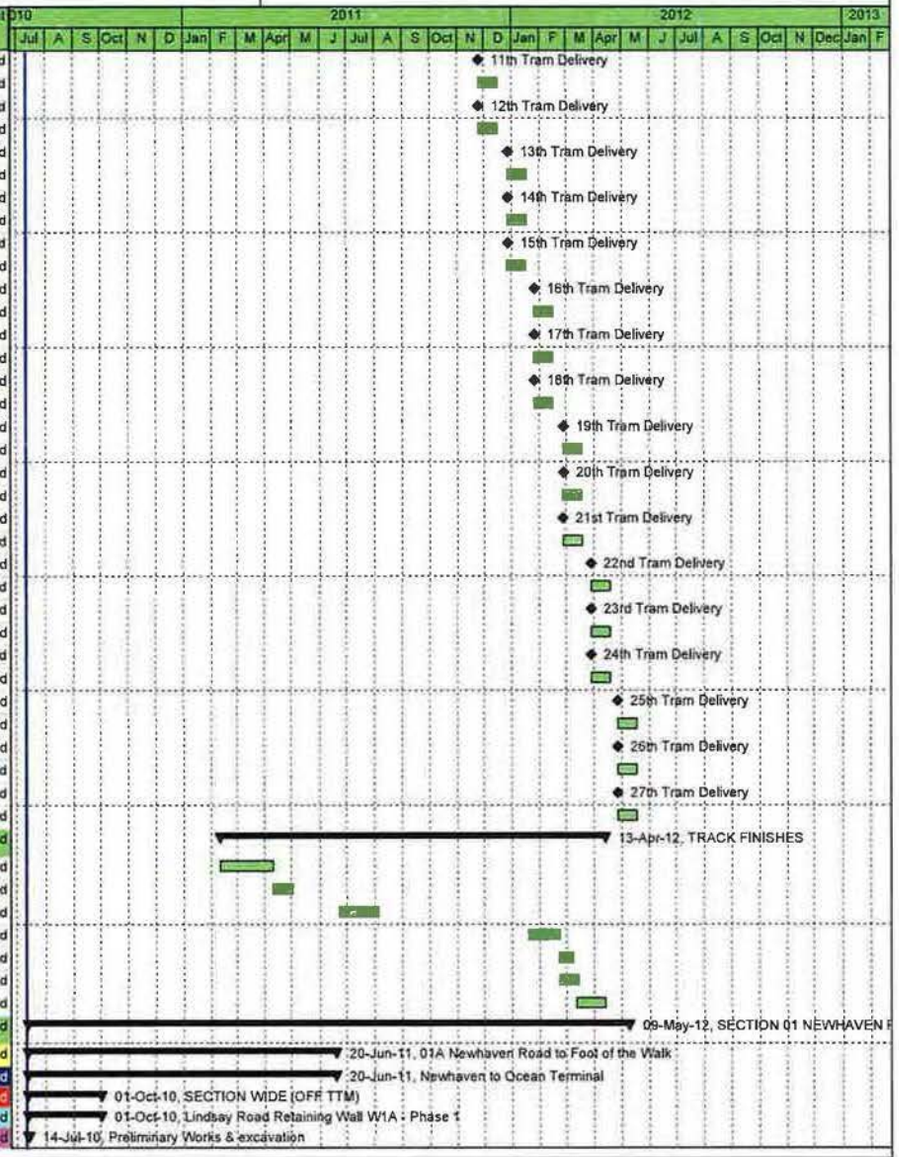
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
CAF-22(3)	11th Tram Delivery	0d	25-Nov-11		241d
CAF-23(3)	11th Tram Commissioning	15d	25-Nov-11	16-Dec-11	241d
CAF-24(3)	12th Tram Delivery	0d	25-Nov-11		131d
CAF-25(3)	12th Tram Commissioning	15d	25-Nov-11	16-Dec-11	131d
CAF-26(3)	13th Tram Delivery	0d	27-Dec-11		219d
CAF-27(3)	13th Tram Commissioning	15d	27-Dec-11	17-Jan-12	219d
CAF-28(3)	14th Tram Delivery	0d	27-Dec-11		219d
CAF-29(3)	14th Tram Commissioning	15d	27-Dec-11	17-Jan-12	219d
CAF-30(3)	15th Tram Delivery	0d	27-Dec-11		131d
CAF-31(3)	15th Tram Commissioning	15d	27-Dec-11	17-Jan-12	131d
CAF-32(3)	16th Tram Delivery	0d	26-Jan-12		197d
CAF-33(3)	16th Tram Commissioning	15d	26-Jan-12	16-Feb-12	197d
CAF-34(3)	17th Tram Delivery	0d	26-Jan-12		197d
CAF-35(3)	17th Tram Commissioning	15d	26-Jan-12	16-Feb-12	197d
CAF-36(3)	18th Tram Delivery	0d	26-Jan-12		131d
CAF-37(3)	18th Tram Commissioning	15d	26-Jan-12	16-Feb-12	131d
CAF-38(3)	19th Tram Delivery	0d	27-Feb-12		175d
CAF-39(3)	19th Tram Commissioning	15d	27-Feb-12	19-Mar-12	175d
CAF-40(3)	20th Tram Delivery	0d	27-Feb-12		175d
CAF-41(3)	20th Tram Commissioning	15d	27-Feb-12	19-Mar-12	175d
CAF-42(3)	21st Tram Delivery	0d	27-Feb-12		131d
CAF-43(3)	21st Tram Commissioning	15d	27-Feb-12	19-Mar-12	131d
CAF-44(3)	22nd Tram Delivery	0d	28-Mar-12		153d
CAF-45(3)	22nd Tram Commissioning	15d	28-Mar-12	18-Apr-12	153d
CAF-46(3)	23rd Tram Delivery	0d	28-Mar-12		153d
CAF-47(3)	23rd Tram Commissioning	15d	28-Mar-12	18-Apr-12	153d
CAF-48(3)	24th Tram Delivery	0d	28-Mar-12		131d
CAF-49(3)	24th Tram Commissioning	15d	28-Mar-12	18-Apr-12	131d
CAF-50(3)	25th Tram Delivery	0d	27-Apr-12		131d
CAF-51(3)	25th Tram Commissioning	15d	27-Apr-12	18-May-12	131d
CAF-52(3)	26th Tram Delivery	0d	27-Apr-12		131d
CAF-53(3)	26th Tram Commissioning	15d	27-Apr-12	18-May-12	131d
CAF-54(3)	27th Tram Delivery	0d	27-Apr-12		131d
CAF-55(3)	27th Tram Commissioning	15d	27-Apr-12	18-May-12	131d
TRACK FINISHES		291d	11-Feb-11	13-Apr-12	27d
A20000	Tamping Ballast 6A	40d	11-Feb-11	11-Apr-11	179d
A20007	Tamping Ballast section 5B	15d	11-Apr-11	03-May-11	258d
A20005	Tamping Ballast section 7A	30d	23-Jun-11	05-Aug-11	119d
A20010	Finishing	25d	19-Jan-12	22-Feb-12	27d
A20020	Prestressing	12d	23-Feb-12	09-Mar-12	27d
A20006	Tamping Ballast section 5A	15d	23-Feb-12	14-Mar-12	19d
A20030	Grinding	25d	12-Mar-12	13-Apr-12	27d
SECTION 01 NEWHAVEN ROAD TO HAYMARKET		450d	12-Jul-10	09-May-12	138d
01A Newhaven Road to Foot of the Walk		230d	12-Jul-10	20-Jun-11	358d
Newhaven to Ocean Terminal		230d	12-Jul-10	20-Jun-11	358d
SECTION WIDE (OFF TTM)		59d	12-Jul-10	01-Oct-10	401d
Lindsay Road Retaining Wall W1A - Phase 1		59d	12-Jul-10	01-Oct-10	401d
Preliminary Works & excavation		3d	12-Jul-10	14-Jul-10	401d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0074

Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1A-24-W1A-110	Excavation	3d	12-Jul-10	14-Jul-10	401d
RW Structure		24d	15-Jul-10	18-Aug-10	401d
1A-24-W1A-120	RW Foundation	5d	15-Jul-10	21-Jul-10	401d
1A-24-W1A-130	RC Wall	7d	26-Jul-10	04-Aug-10	401d
1A-24-W1A-140	Coping	8d	09-Aug-10	18-Aug-10	401d
RW Finishing Works and Backfilling		28d	25-Aug-10	01-Oct-10	401d
1A-24-W1A-150	Waterproofing	2d	25-Aug-10	26-Aug-10	401d
1A-24-W1A-190	Brickwork	3d	27-Aug-10	31-Aug-10	401d
1A-24-W1A-160	Drainage	2d	01-Sep-10	02-Sep-10	401d
1A-24-W1A-170	Stone drainage trench	3d	07-Sep-10	09-Sep-10	401d
1A-24-W1A-180	Backfill and compact (inc demo. of exist. r.w.)	11d	15-Sep-10	29-Sep-10	401d
1A-24-W1A-200	Vehicle Parapets	2d	30-Sep-10	01-Oct-10	401d
1A-24-5A-W1A-370	LINDSAY ROAD RW W1A - PHASE 1 (4 OF 21 UNITS)COMPLETE	0d		01-Oct-10	401d
Lindsay Road Retaining Wall W1D		32d	29-Jul-10	13-Sep-10	325d
Preliminary works & excavation		2d	29-Jul-10	30-Jul-10	325d
1A-24-5A-W1D-100	Mobilisation and site installation	1d	29-Jul-10	29-Jul-10	325d
1A-24-5A-W1D-110	Excavation	1d	30-Jul-10	30-Jul-10	325d
RW Structure		15d	03-Aug-10	23-Aug-10	325d
1A-24-5A-W1D-120	RW Foundation	7d	03-Aug-10	11-Aug-10	325d
1A-24-5A-W1D-130	RC Wall	6d	12-Aug-10	23-Aug-10	325d
RW Finishing Works and Backfilling		15d	24-Aug-10	13-Sep-10	325d
1A-24-5A-W1D-140	Waterproofing	1d	24-Aug-10	24-Aug-10	325d
1A-24-5A-W1D-150	Drainage	1d	25-Aug-10	25-Aug-10	325d
1A-24-5A-W1D-160	Stone drainage trench	1d	26-Aug-10	26-Aug-10	325d
1A-24-5A-W1D-180	Brickwork	1d	26-Aug-10	26-Aug-10	325d
1A-24-5A-W1D-170	Backfill and compact	1d	27-Aug-10	27-Aug-10	325d
1A-24-5A-W1D-190	Vehicle Parapets + Crash Barrier	1d	30-Aug-10	30-Aug-10	335d
1A-24-5A-W1D-200	Kerbing	1d	30-Aug-10	30-Aug-10	325d
1A-24-5A-W1D-210	Footway and Road Surfacing	10d	31-Aug-10	13-Sep-10	325d
1A-24-5A-W1D-220	LINDSAY ROAD RW W1D COMPLETE	0d		13-Sep-10	325d
Lindsay Road Retaining Wall W1C		23d	12-Jul-10	12-Aug-10	347d
RW Structure		6d	12-Jul-10	19-Jul-10	325d
1A-24-5A-W1C-140	Coping	6d	12-Jul-10	19-Jul-10	325d
RW Finishing Works and Backfilling		17d	20-Jul-10	12-Aug-10	347d
1A-24-5A-W1C-150	Waterproofing	1d	20-Jul-10	20-Jul-10	325d
1A-24-5A-W1C-160	Drainage	1d	21-Jul-10	21-Jul-10	325d
1A-24-5A-W1C-170	Stone drainage trench	3d	22-Jul-10	26-Jul-10	325d
1A-24-5A-W1C-190	Brickwork	3d	22-Jul-10	26-Jul-10	325d
1A-24-5A-W1C-180	Backfill and compact	1d	27-Jul-10	27-Jul-10	325d
1A-24-5A-W1C-200	Vehicle Parapets + Crash Barrier	1d	28-Jul-10	28-Jul-10	357d
1A-24-5A-W1C-210	Kerbing	1d	28-Jul-10	28-Jul-10	325d
1A-24-5A-W1C-220	Footway and Road Surfacing	10d	29-Jul-10	12-Aug-10	347d
1A-24-5A-W1C-230	LINDSAY ROAD RW W1C COMPLETE	0d		12-Aug-10	347d
TTM PHASE 5B (LINDSAY ROAD WEST BOUND)		104d	16-Aug-10	24-Jan-11	332d
1A-24-TTM-05B-1000	TTM - PHASE 5B - Lindsay Road EB closed	0d	16-Aug-10		230d
1A-24-TTM-05B-01	Commence TTM Works	0d	16-Aug-10*		230d
1A-24-TTM-05B-1010	TTM PHASE 5B COMPLETE	0d		24-Jan-11	230d
TEMPORARY AND PRELIMINARY WORKS		7d	16-Aug-10	25-Aug-10	230d

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Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0075

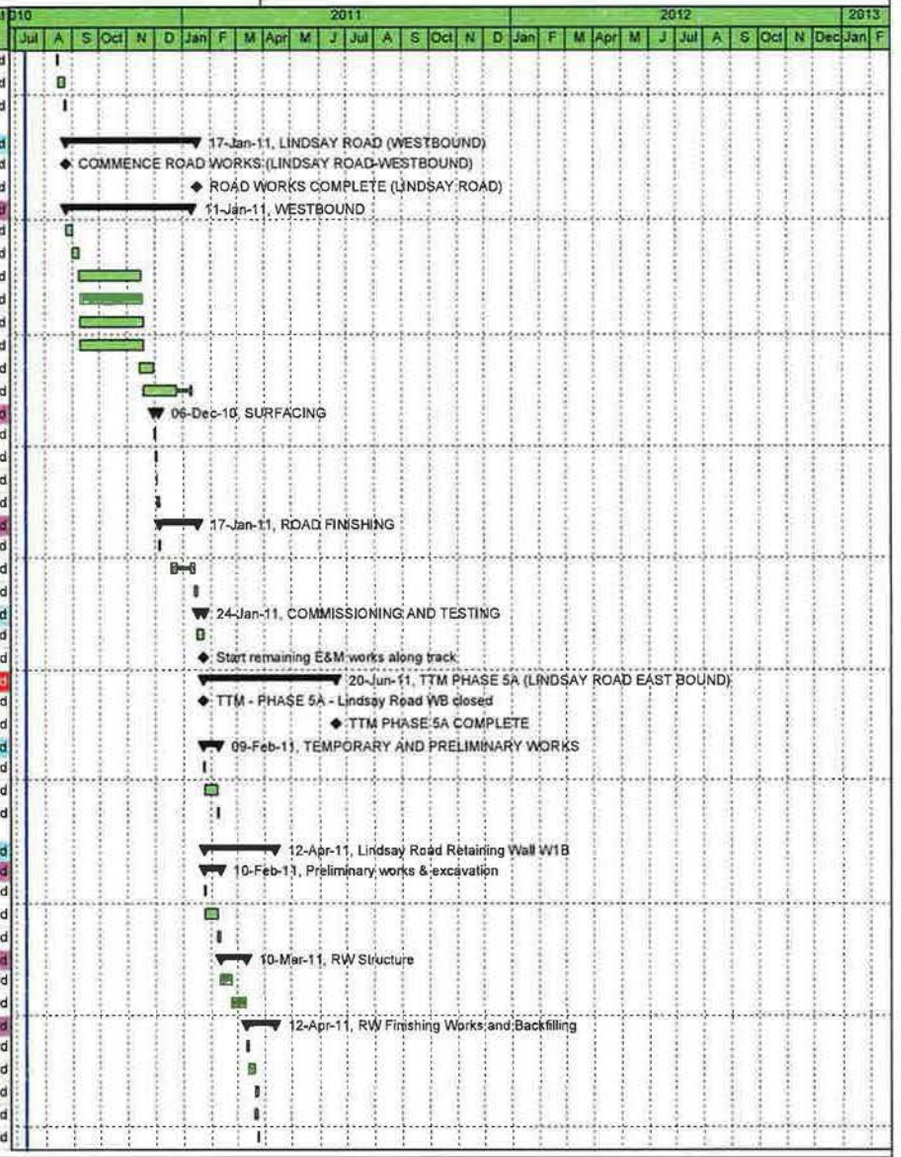
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1A-24-5B-1000	Establish temporary traffic management	1d	16-Aug-10	17-Aug-10	230d
1A-24-5B-1010	Site clearance	5d	17-Aug-10	24-Aug-10	230d
1A-24-5B-1020	Investigate services / outfall positions / inlet-outlet positions / levels	1d	24-Aug-10	25-Aug-10	230d
LINDSAY ROAD (WESTBOUND)		92d	25-Aug-10	17-Jan-11	230d
1A-24-5B-1030	COMMENCE ROAD WORKS (LINDSAY ROAD-WESTBOU...	0d	25-Aug-10		230d
1A-24-5B-1040	ROAD WORKS COMPLETE (LINDSAY ROAD)	0d		17-Jan-11	230d
WESTBOUND		88d	25-Aug-10	11-Jan-11	230d
1A-24-5B-1050	Remove existing footway	5d	25-Aug-10	01-Sep-10	230d
1A-24-5B-1060	Plane Main Carriageway & Footway	5d	01-Sep-10	08-Sep-10	230d
1A-24-5B-1070	Plane/break/lower / excavate to Formation (Lindsay Road)	49d	08-Sep-10	16-Nov-10	230d
1A-24-5B-1080	Capping layer (600mm)	49d	09-Sep-10	17-Nov-10	232d
1A-24-5B-1090	Drainage and Outfalls	49d	10-Sep-10	18-Nov-10	230d
1A-24-5B-1100	Ducts and Chambers	49d	10-Sep-10	18-Nov-10	230d
1A-24-5B-1110	Kerbing	10d	15-Nov-10	30-Nov-10	232d
1A-24-5B-1120	Footpath Works	27d	18-Nov-10	11-Jan-11	230d
SURFACING		4d	30-Nov-10	06-Dec-10	248d
1A-24-5B-1130	220mm Sub-base	1d	30-Nov-10	01-Dec-10	248d
1A-24-5B-1140	225mm Base	1d	01-Dec-10	02-Dec-10	248d
1A-24-5B-1150	60mm Binder Course	1d	02-Dec-10	03-Dec-10	248d
1A-24-5B-1160	35mm Surface Course - Main Carriageway and Boundary	1d	03-Dec-10	06-Dec-10	248d
ROAD FINISHING		20d	06-Dec-10	17-Jan-11	230d
1A-24-5B-1170	Road Signs and Markings	1d	06-Dec-10	07-Dec-10	248d
1A-24-5B-1180	Landscaping	9d	20-Dec-10	14-Jan-11	230d
1A-24-5B-1190	Remove temporary traffic management	1d	14-Jan-11	17-Jan-11	230d
COMMISSIONING AND TESTING		5d	17-Jan-11	24-Jan-11	332d
1A-24-5B-TEST-100	Handover / Acceptance of Roadworks and Trackworks	5d	17-Jan-11	24-Jan-11	230d
1A-24-5B-TEST-110	Start remaining E&M works along track	0d	24-Jan-11		332d
TTM PHASE 5A (LINDSAY ROAD EAST BOUND)		102d	24-Jan-11	20-Jun-11	230d
1A-24-TTM-05A-1000	TTM - PHASE 5A - Lindsay Road WB closed	0d	24-Jan-11		230d
1A-24-TTM-05A-1010	TTM PHASE 5A COMPLETE	0d		20-Jun-11	230d
TEMPORARY AND PRELIMINARY WORKS		12d	24-Jan-11	09-Feb-11	230d
1A-24-5A-1000	Establish temporary traffic management	1d	24-Jan-11	25-Jan-11	230d
1A-24-5A-1010	Site clearance	10d	25-Jan-11	08-Feb-11	230d
1A-24-5A-1020	Investigate services / outfall positions / inlet-outlet positions / levels	1d	08-Feb-11	09-Feb-11	230d
Lindsay Road Retaining Wall W1B		55d	24-Jan-11	12-Apr-11	239d
Preliminary works & excavation		13d	24-Jan-11	10-Feb-11	239d
1A-24-5A-W1B-100	Mobilisation, site installation and temporary fencing	1d	24-Jan-11	25-Jan-11	239d
1A-24-5A-W1B-110	Demolition	10d	25-Jan-11	08-Feb-11	239d
1A-24-5A-W1B-120	Excavation	2d	08-Feb-11	10-Feb-11	239d
RW Structure		20d	10-Feb-11	10-Mar-11	239d
1A-24-5A-W1B-130	RW Foundation	9d	10-Feb-11	23-Feb-11	239d
1A-24-5A-W1B-140	RC Wall	11d	23-Feb-11	10-Mar-11	239d
RW Finishing Works and Backfilling		22d	10-Mar-11	12-Apr-11	239d
1A-24-5A-W1B-150	Waterproofing	2d	10-Mar-11	14-Mar-11	239d
1A-24-5A-W1B-160	Drainage	5d	14-Mar-11	21-Mar-11	239d
1A-24-5A-W1B-170	Stone drainage trench	2d	21-Mar-11	23-Mar-11	239d
1A-24-5A-W1B-190	Brickwork	2d	21-Mar-11	23-Mar-11	239d
1A-24-5A-W1B-180	Backfill and compact	1d	23-Mar-11	24-Mar-11	239d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0076

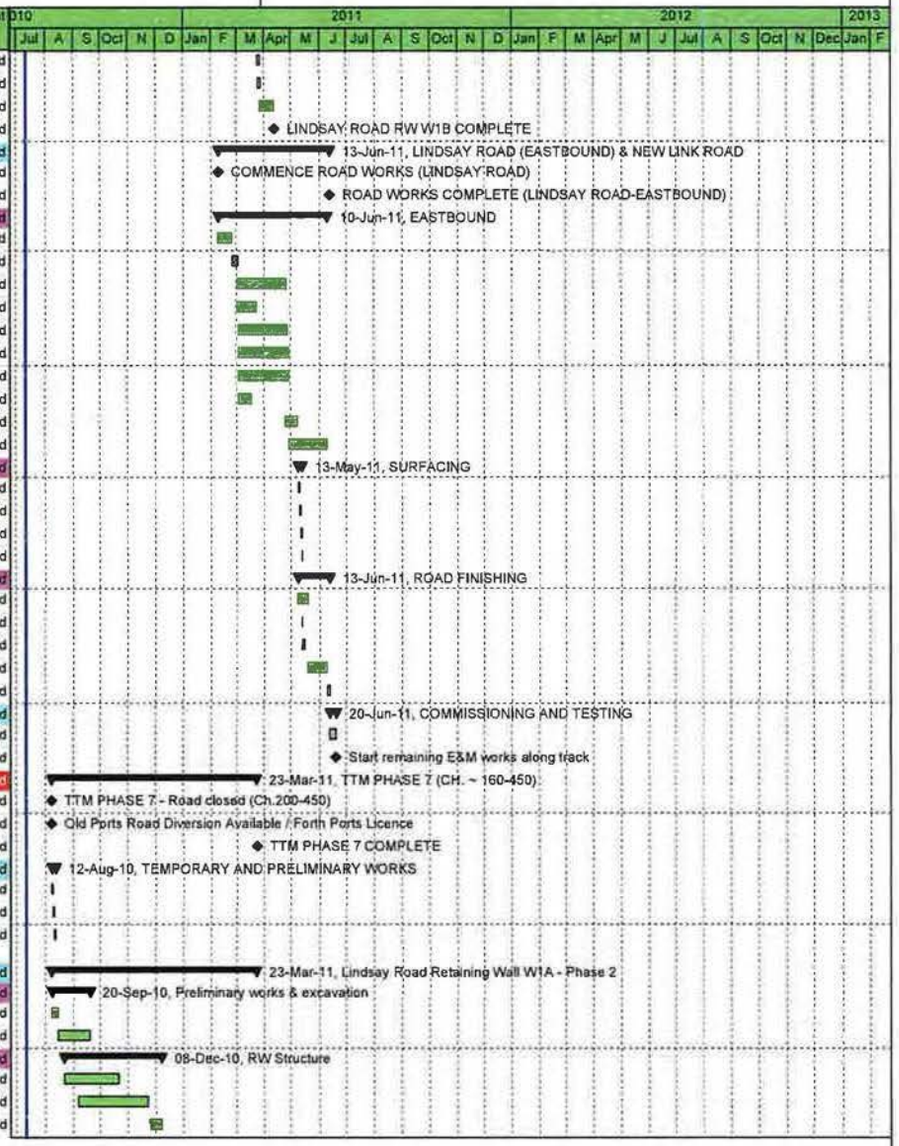
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1A-24-5A-W1B-200	Vehicle Parapets	2d	24-Mar-11	28-Mar-11	249d
1A-24-5A-W1B-210	Kerbing	2d	24-Mar-11	28-Mar-11	239d
1A-24-5A-W1B-220	Footway and Road Surfacing	10d	28-Mar-11	12-Apr-11	239d
1A-24-5A-W1B-230	LINDSAY ROAD RW W1B COMPLETE	0d		12-Apr-11	239d
LINDSAY ROAD (EASTBOUND) & NEW LINK ROAD		85d	09-Feb-11	13-Jun-11	230d
1A-24-5A-1030	COMMENCE ROAD WORKS (LINDSAY ROAD)	0d	09-Feb-11		230d
1A-24-5A-1040	ROAD WORKS COMPLETE (LINDSAY ROAD-EASTBOUND)	0d		13-Jun-11	230d
EASTBOUND		84d	09-Feb-11	10-Jun-11	231d
1A-24-5A-1050	Remove existing footway	11d	09-Feb-11	24-Feb-11	230d
1A-24-5A-1060	Plane Main Carriageway & Footway	4d	24-Feb-11	02-Mar-11	230d
1A-24-5A-1070	Plane/break/lower / excavate to Formation (Lindsay Road)	38d	02-Mar-11	26-Apr-11	230d
1A-24-5A-1080	Earthworks New Link Road	15d	02-Mar-11	23-Mar-11	252d
1A-24-5A-1090	Capping layer (600mm)	38d	03-Mar-11	27-Apr-11	230d
1A-24-5A-1100	Drainage and Outfalls	38d	04-Mar-11	28-Apr-11	231d
1A-24-5A-1120	Ducts and Chambers	38d	04-Mar-11	28-Apr-11	231d
1A-24-5A-1110	Manholes & Catchpits (3nos)	9d	04-Mar-11	17-Mar-11	260d
1A-24-5A-1130	Kerbing	9d	25-Apr-11	09-May-11	230d
1A-24-5A-1140	Footpath Works	29d	28-Apr-11	10-Jun-11	231d
SURFACING		4d	09-May-11	13-May-11	248d
1A-24-5A-1150	220mm Sub-base	1d	09-May-11	10-May-11	248d
1A-24-5A-1160	225mm Base	1d	10-May-11	11-May-11	248d
1A-24-5A-1170	60mm Binder Course	1d	11-May-11	12-May-11	248d
1A-24-5A-1180	35mm Surface Course - Main Carriageway and Boundary	1d	12-May-11	13-May-11	248d
ROAD FINISHING		24d	09-May-11	13-Jun-11	230d
1A-24-5A-1190	Parapets, Guard rails	8d	09-May-11	19-May-11	230d
1A-24-5A-1210	Installation of traffic light control	0d	13-May-11	13-May-11	249d
1A-24-5A-1220	Road Signs and Markings	1d	13-May-11	16-May-11	248d
1A-24-5A-1200	Landscaping	15d	19-May-11	10-Jun-11	230d
1A-24-5A-1230	Remove temporary traffic management	1d	10-Jun-11	13-Jun-11	230d
COMMISSIONING AND TESTING		5d	13-Jun-11	20-Jun-11	230d
1A-24-5A-TEST-100	Handover / Acceptance of Roadworks and Trackworks	5d	13-Jun-11	20-Jun-11	230d
1A-24-5A-TEST-110	Start remaining E&M works along track	0d	20-Jun-11		230d
TTM PHASE 7 (CH. ~ 160-450)		151d	09-Aug-10	23-Mar-11	418d
1A-24-TTM-07-1000	TTM PHASE 7 - Road closed (Ch.200-450)	0d	09-Aug-10		418d
1A-24-TTM-07-1020	Old Ports Road Diversion Available / Forth Ports Licence	0d		09-Aug-10*	418d
1A-24-TTM-07-1010	TTM PHASE 7 COMPLETE	0d		23-Mar-11	418d
TEMPORARY AND PRELIMINARY WORKS		3d	09-Aug-10	12-Aug-10	420d
1A-24B-7-1000	Establish temporary traffic management	1d	09-Aug-10	10-Aug-10	420d
1A-24B-7-1010	Site clearance	1d	10-Aug-10	11-Aug-10	420d
1A-24B-7-1020	Investigate services / outfall positions / inlet-outlet positions / levels	1d	11-Aug-10	12-Aug-10	420d
Lindsay Road Retaining Wall W1A - Phase 2		151d	09-Aug-10	23-Mar-11	418d
Preliminary works & excavation		30d	09-Aug-10	20-Sep-10	418d
1A-24-7-W1A-100	Mobilisation, site installation and temporary fencing	5d	09-Aug-10	16-Aug-10	418d
1A-24-7-W1A-110	Excavation	25d	16-Aug-10	20-Sep-10	418d
RW Structure		76d	23-Aug-10	08-Dec-10	475d
1A-24-7-W1A-120	RW Foundation	43d	23-Aug-10	21-Oct-10	418d
1A-24-7-W1A-130	RC Wall	55d	07-Sep-10	23-Nov-10	418d
1A-24-7-W1A-140	Coping	8d	25-Nov-10	08-Dec-10	475d



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29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0077

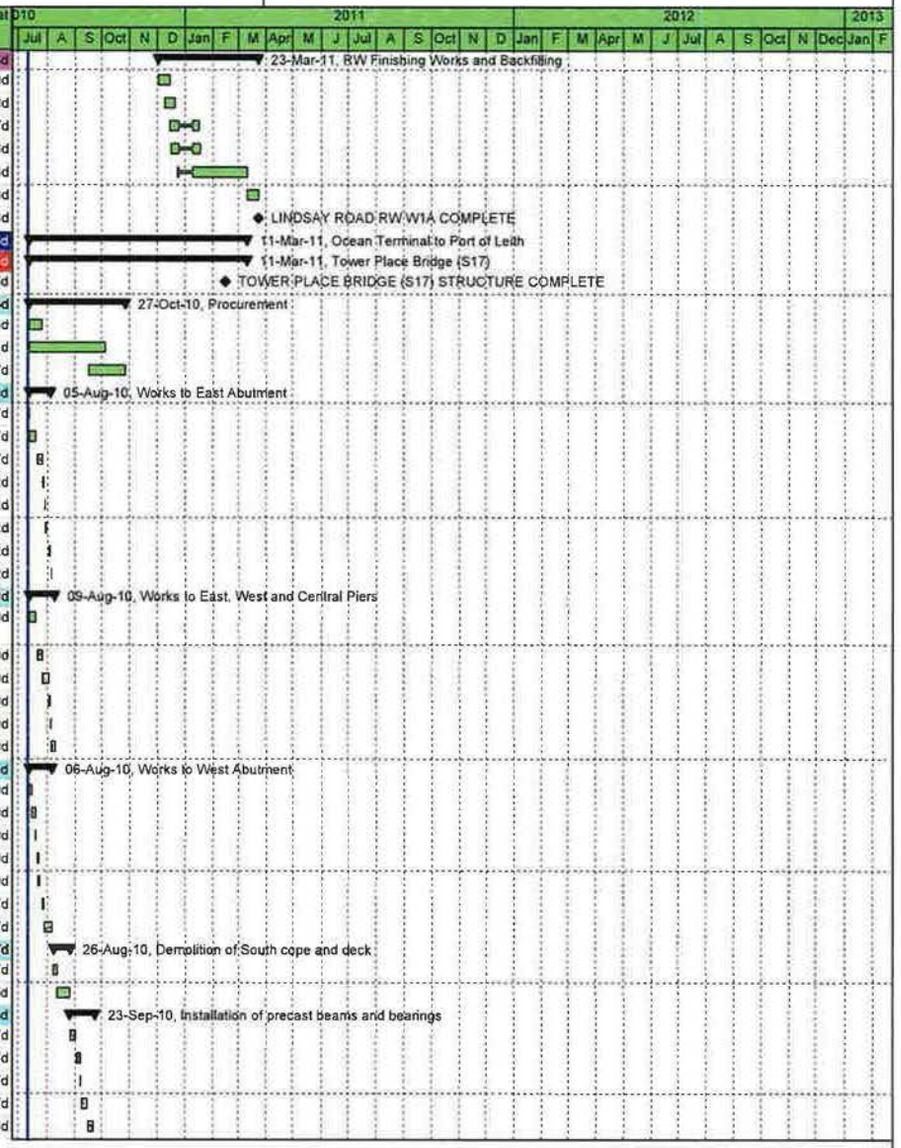
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
RW Finishing Works and Backfilling		69d	02-Dec-10	23-Mar-11	418d
1A-24-7-W1A-150	Waterproofing	9d	02-Dec-10	15-Dec-10	418d
1A-24-7-W1A-160	Drainage	8d	09-Dec-10	21-Dec-10	418d
1A-24-7-W1A-190	Brickwork	13d	15-Dec-10	17-Jan-11	457d
1A-24-7-W1A-170	Stone drainage trench	13d	16-Dec-10	18-Jan-11	418d
1A-24-7-W1A-180	Backfill and compact (incl. demolition of exist. RW)	46d	23-Dec-10	11-Mar-11	418d
1A-24-7-W1A-200	Vehicle Parapets	8d	11-Mar-11	23-Mar-11	418d
1A-24-7-W1A-210	LINDSAY ROAD RW W1A COMPLETE	0d		23-Mar-11	418d
Ocean Terminal to Port of Leith		163d	12-Jul-10	11-Mar-11	425d
Tower Place Bridge (S17)		163d	12-Jul-10	11-Mar-11	425d
1A-1-S17-1000	TOWER PLACE BRIDGE (S17) STRUCTURE COMPLETE	0d		14-Feb-11	297d
Procurement		77d	12-Jul-10	27-Oct-10	434d
1A-1-S17-1010	Precast beams	11d	12-Jul-10	26-Jul-10	326d
1A-1-S17-1020	Precast ramp units	60d	12-Jul-10	04-Oct-10	451d
1A-1-S17-1030	Ducting	30d	16-Sep-10	27-Oct-10	297d
Works to East Abutment		18d	12-Jul-10	05-Aug-10	312d
1A-1-S17-1130	Install temporary works to excavation	1d	12-Jul-10	12-Jul-10	297d
1A-1-S17-1140	Demolition of existing abutment structure	6d	13-Jul-10	20-Jul-10	297d
1A-1-S17-1160	Install reinforcement to abutment base	4d	21-Jul-10	26-Jul-10	297d
1A-1-S17-1170	Construct formwork to abutment base	2d	27-Jul-10	28-Jul-10	312d
1A-1-S17-1180	Pour concrete to base	1d	29-Jul-10	29-Jul-10	312d
1A-1-S17-1190	Strip base formwork	1d	30-Jul-10	30-Jul-10	312d
1A-1-S17-1200	Construct formwork to ballast walls	2d	03-Aug-10	04-Aug-10	312d
1A-1-S17-1210	Pour concrete to ballast walls	1d	05-Aug-10	05-Aug-10	312d
Works to East, West and Central Piers		20d	12-Jul-10	09-Aug-10	310d
1A-1-S17-1230	Demolition to expose existing reinforcement on south side of pier	7d	12-Jul-10	20-Jul-10	310d
1A-1-S17-1240	Dowel bars to existing pile cap	4d	21-Jul-10	26-Jul-10	310d
1A-1-S17-1270	Installation of metal frame to form shutter for new pier base	5d	27-Jul-10	03-Aug-10	310d
1A-1-S17-1280	Installation of prefabricated pier base reinforcement cage	2d	03-Aug-10	04-Aug-10	310d
1A-1-S17-1290	Pour concrete to bases	1d	05-Aug-10	05-Aug-10	310d
1A-1-S17-1300	Shutter and pour concrete/grout to bearing plinth	2d	06-Aug-10	09-Aug-10	310d
Works to West Abutment		19d	12-Jul-10	06-Aug-10	311d
1A-1-S17-1380	Install reinforcement to abutment base	4d	12-Jul-10	15-Jul-10	320d
1A-1-S17-1390	Construct formwork to abutment base	2d	16-Jul-10	19-Jul-10	320d
1A-1-S17-1400	Pour concrete to base	1d	20-Jul-10	20-Jul-10	320d
1A-1-S17-1410	Construct formwork to ballast walls	2d	21-Jul-10	22-Jul-10	320d
1A-1-S17-1420	Pour concrete to ballast walls	1d	23-Jul-10	23-Jul-10	320d
1A-1-S17-1350	Cut Back existing capping beam and sheet piling	2d	27-Jul-10	28-Jul-10	297d
1A-1-S17-1360	Demolition of existing abutment structure	6d	29-Jul-10	06-Aug-10	297d
Demolition of South cope and deck		14d	09-Aug-10	26-Aug-10	297d
1A-1-S17-1460	Cut and remove existing parapet cope by diamond wire saw	4d	09-Aug-10	12-Aug-10	297d
1A-1-S17-1480	Remove existing deck section by robolition	10d	13-Aug-10	26-Aug-10	297d
Installation of precast beams and bearings		20d	27-Aug-10	23-Sep-10	448d
1A-1-S17-1490	Erection of temporary works to support beams	4d	27-Aug-10	01-Sep-10	297d
1A-1-S17-1500	Bearing base plates grouted into position	3d	02-Sep-10	06-Sep-10	297d
1A-1-S17-1510	Installation of precast beams	1d	07-Sep-10	07-Sep-10	297d
1A-1-S17-1520	Installation of bearings including all grouting	5d	08-Sep-10	14-Sep-10	297d
1A-1-S17-1530	Allow grout to achieve required compressive strength	4d	15-Sep-10	20-Sep-10	448d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0078

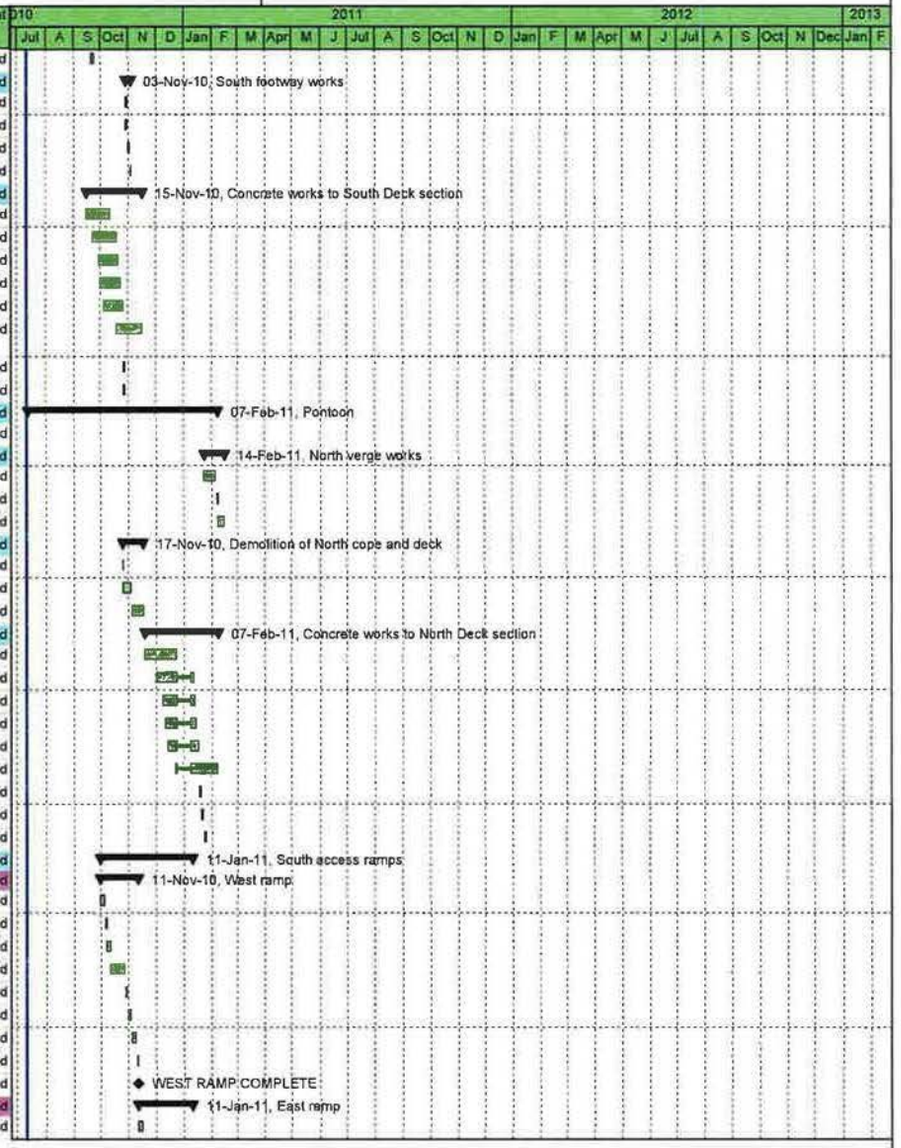
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1A-1-S17-1540	Remove temporary supports	3d	21-Sep-10	23-Sep-10	448d
South footway works		5d	28-Oct-10	03-Nov-10	297d
1A-1-S17-1630	Install service ducting to south footway	2d	28-Oct-10	29-Oct-10	297d
1A-1-S17-1640	Kerbing	2d	28-Oct-10	29-Oct-10	297d
1A-1-S17-1650	Install infill concrete	2d	01-Nov-10	02-Nov-10	297d
1A-1-S17-1660	Divert services back to South footpath (by others)	1d	03-Nov-10	03-Nov-10	297d
Concrete works to South Deck section		44d	15-Sep-10	15-Nov-10	299d
1A-1-S17-1550	Install formwork to deck slab extension	20d	15-Sep-10	12-Oct-10	297d
1A-1-S17-1560	Install reinforcement to deck slab	19d	22-Sep-10	18-Oct-10	297d
1A-1-S17-1570	Pour concrete to deck slab	16d	29-Sep-10	20-Oct-10	297d
1A-1-S17-1580	Install formwork for deck cope	16d	01-Oct-10	22-Oct-10	297d
1A-1-S17-1590	Pour concrete to deck cope	15d	05-Oct-10	25-Oct-10	297d
1A-1-S17-1610	Strip formwork to underside of deck section (allowing for required curing period)	20d	19-Oct-10	15-Nov-10	299d
1A-1-S17-1600	Install pedestrian/cycleway barrier to cope	2d	26-Oct-10	27-Oct-10	297d
1A-1-S17-1620	Waterproofing to deck concrete	2d	26-Oct-10	27-Oct-10	297d
Pontoon		139d	12-Jul-10	07-Feb-11	297d
1A-1-S17-1820	Pontoon	139d	12-Jul-10	07-Feb-11	297d
North verge works		16d	24-Jan-11	14-Feb-11	297d
1A-1-S17-1790	Install service ducting to North verge	10d	24-Jan-11	04-Feb-11	297d
1A-1-S17-1800	Install infill concrete	1d	07-Feb-11	07-Feb-11	297d
1A-1-S17-1810	Install ducting suspended from underside of soffit	5d	08-Feb-11	14-Feb-11	297d
Demolition of North cope and deck		17d	26-Oct-10	17-Nov-10	297d
1A-1-S17-1670	Move pontoons to North side of Bridge	1d	26-Oct-10	26-Oct-10	297d
1A-1-S17-1680	Cut and remove existing parapet cope by diamond wire sawing	7d	26-Oct-10	03-Nov-10	297d
1A-1-S17-1690	Remove existing deck section by robolition	10d	04-Nov-10	17-Nov-10	297d
Concrete works to North Deck section		47d	18-Nov-10	07-Feb-11	297d
1A-1-S17-1700	Install formwork to deck slab extension	25d	18-Nov-10	23-Dec-10	297d
1A-1-S17-1710	Install reinforcement to deck slab	20d	02-Dec-10	12-Jan-11	297d
1A-1-S17-1720	Pour concrete to deck slab	16d	09-Dec-10	13-Jan-11	297d
1A-1-S17-1730	Install formwork for deck cope	15d	13-Dec-10	14-Jan-11	297d
1A-1-S17-1740	Pour concrete to deck cope	14d	15-Dec-10	17-Jan-11	297d
1A-1-S17-1770	Strip formwork to underside of deck section	23d	23-Dec-10	07-Feb-11	297d
1A-1-S17-1750	Strip cope formwork	2d	18-Jan-11	19-Jan-11	297d
1A-1-S17-1780	Waterproofing to deck concrete	2d	20-Jan-11	21-Jan-11	297d
1A-1-S17-1760	Install pedestrian/cycleway barrier to cope	2d	24-Jan-11	25-Jan-11	305d
South access ramps		62d	01-Oct-10	11-Jan-11	468d
West ramp		30d	01-Oct-10	11-Nov-10	500d
1A-1-S17-1830	Excavate area for south West ramp	3d	01-Oct-10	05-Oct-10	448d
1A-1-S17-1840	Blinding for precast units	2d	06-Oct-10	07-Oct-10	448d
1A-1-S17-1850	Place precast ramp units	2d	08-Oct-10	11-Oct-10	448d
1A-1-S17-1860	Insitu ramp sections	12d	12-Oct-10	27-Oct-10	448d
1A-1-S17-1870	Bitumen paint to concrete	2d	28-Oct-10	29-Oct-10	448d
1A-1-S17-1880	Backfill paving area	3d	01-Nov-10	03-Nov-10	448d
1A-1-S17-1890	Install paving to footway	4d	04-Nov-10	09-Nov-10	448d
1A-1-S17-1900	Install pedestrian/cycleway barrier	2d	10-Nov-10	11-Nov-10	448d
1A-1-S17-1910	WEST RAMP COMPLETE	0d		11-Nov-10	500d
East ramp		32d	12-Nov-10	11-Jan-11	468d
1A-1-S17-1920	Excavate area for South East ramp	3d	12-Nov-10	16-Nov-10	448d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

CEC00183919_0079

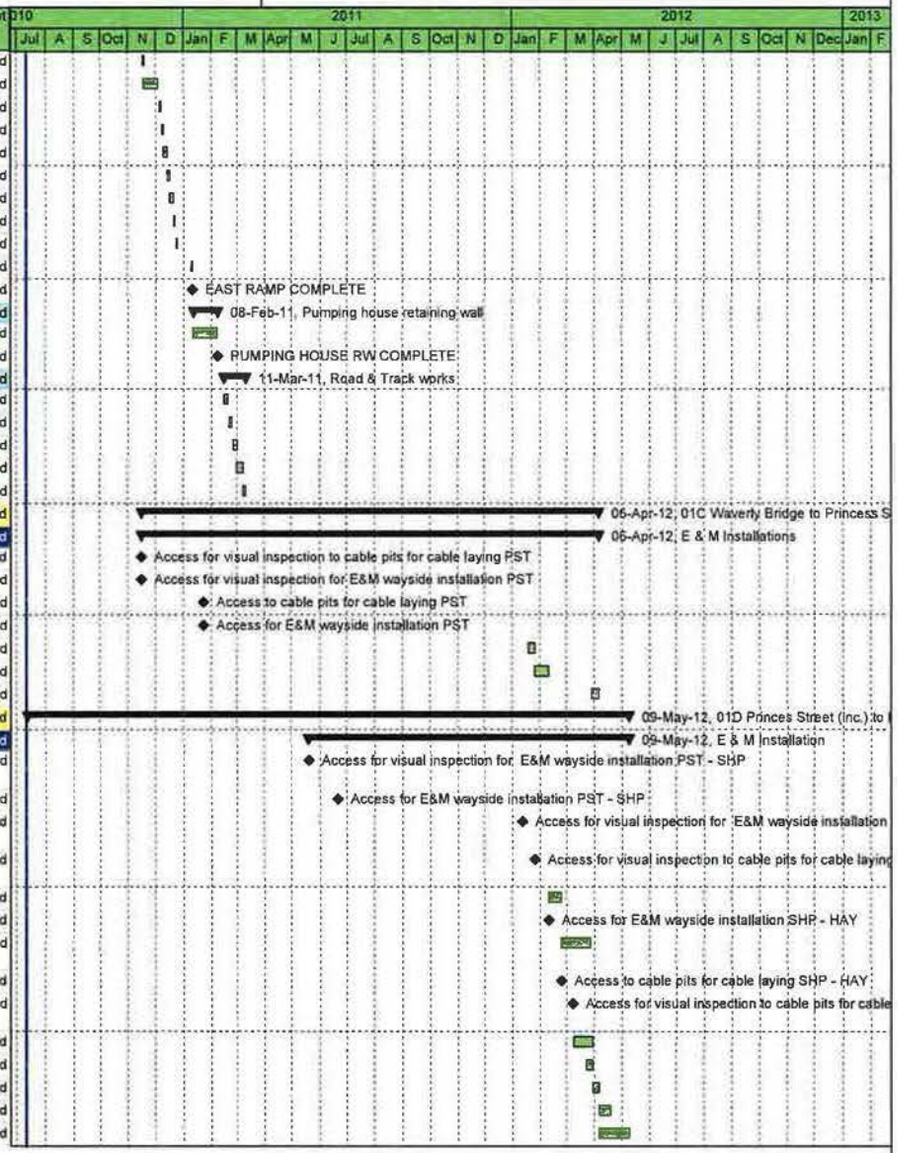
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1A-1-S17-1930	Excavate area for retaining wall	2d	17-Nov-10	18-Nov-10	448d
1A-1-S17-1940	Construct retaining wall	10d	19-Nov-10	03-Dec-10	448d
1A-1-S17-1950	Blinding for units	2d	06-Dec-10	07-Dec-10	448d
1A-1-S17-1960	Place precast ramp units	2d	08-Dec-10	09-Dec-10	448d
1A-1-S17-1970	Bitumen paint to concrete	2d	10-Dec-10	13-Dec-10	448d
1A-1-S17-1980	Install trieff kerbs	3d	14-Dec-10	16-Dec-10	448d
1A-1-S17-1990	Insatll Aco channel	2d	17-Dec-10	20-Dec-10	448d
1A-1-S17-2000	Install deterrant paving	2d	21-Dec-10	22-Dec-10	448d
1A-1-S17-2010	Install pedestrian/cycleway barrier	2d	23-Dec-10	24-Dec-10	448d
1A-1-S17-2020	Install paving to footway	2d	10-Jan-11	11-Jan-11	448d
1A-1-S17-2030	EAST RAMP COMPLETE	0d		11-Jan-11	468d
Pumping house retaining wall		**20d**	**12-Jan-11**	**08-Feb-11**	**448d**
1A-1-S17-2040	Works TBC	20d	12-Jan-11	08-Feb-11	448d
1A-1-S17-2050	PUMPING HOUSE RW COMPLETE	0d		08-Feb-11	448d
Road & Track works		**19d**	**15-Feb-11**	**11-Mar-11**	**297d**
1A-1-1020	Plane/excavate existing road surface (Tower Bridge)	4d	15-Feb-11	18-Feb-11	297d
1A-1-1030	Remove existing deck waterproofing	3d	21-Feb-11	23-Feb-11	297d
1A-1-1040	New waterproofing and sand carpet	3d	24-Feb-11	28-Feb-11	297d
1A-1-1060	Surfacing to carriageway	5d	01-Mar-11	07-Mar-11	297d
1A-1-1070	Road markings	4d	08-Mar-11	11-Mar-11	297d
01C Waverly Bridge to Princess Street West (exc.)		**337d**	**15-Nov-10**	**06-Apr-12**	**161d**
E & M Installations		**337d**	**15-Nov-10**	**06-Apr-12**	**161d**
1C-16-ELEC-30	Access for visual inspection to cable pits for cable laying PST	0d	15-Nov-10		421d
1C-16-OHLE-30	Access for visual inspection for E&M wayside installation PST	0d	15-Nov-10		421d
1C-16-ELEC-31	Access to cable pits for cable laying PST	0d	24-Jan-11		271d
1C-16-OHLE-31	Access for E&M wayside installation PST	0d	24-Jan-11		246d
1C-15/16-OHLE-50	Installation of poles and building fixings -9 (12 1376 - 13 0120)	4d	19-Jan-12	25-Jan-12	41d
1C-15/16-OHLE-60	Overhead Catenary Line -9 (12 1376 - 13 0120)	12d	25-Jan-12	10-Feb-12	41d
1C-16-SGNW-60	Install Signalling Wayside Equipment PST	6d	29-Mar-12	06-Apr-12	18d
01D Princes Street (inc.) to Haymarket (exc.)		**450d**	**12-Jul-10**	**09-May-12**	**138d**
E & M Installation		**240d**	**19-May-11**	**09-May-12**	**138d**
1D-15-OHLE-30	Access for visual inspection for E&M wayside installation PST - SHP	0d	19-May-11		318d
1D-15-OHLE-31	Access for E&M wayside installation PST - SHP	0d	21-Jun-11		159d
1D-14-OHLE-30	Access for visual inspection for E&M wayside installation SHP - HAY	0d	11-Jan-12		200d
1D-14-ELEC-30	Access for visual inspection to cable pits for cable laying SHP - HAY	0d	25-Jan-12		190d
1D-14/15-OHLE-50(3)	Installation of poles and building fixings -10 (13 0037 - 20 00...	10d	10-Feb-12	24-Feb-12	41d
1D-14-OHLE-31	Access for E&M wayside installation SHP - HAY	0d	10-Feb-12		41d
1D-14/15-OHLE-60(3)	Overhead Catenary Line -10 (13 0037 - 20 0022 + 13 0731 - 13 0810)	22d	24-Feb-12	27-Mar-12	41d
1D-14-ELEC-31	Access to cable pits for cable laying SHP - HAY	0d	24-Feb-12		33d
1D-15-ELEC-30	Access for visual inspection to cable pits for cable laying PST - SHP	0d	07-Mar-12		160d
1D-14-SIGN-40	Installation of SIG-interlocking cubicle SHP	15d	09-Mar-12	30-Mar-12	33d
1D-14-SIGN-90	installation of SIG equipment on crossover SHP	5d	23-Mar-12	30-Mar-12	33d
1D-14-SIGN-80	Commissioning of SIG -interlocking cubicle SHP	5d	30-Mar-12	06-Apr-12	33d
1D-14/15-TELC-70	Install Fibre Optic Cables PST - SHP - HAY	8d	06-Apr-12	18-Apr-12	18d
1D-13//17-ELEC-60	Install Electrical Cables CAE - HTE	23d	06-Apr-12	09-May-12	10d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0080

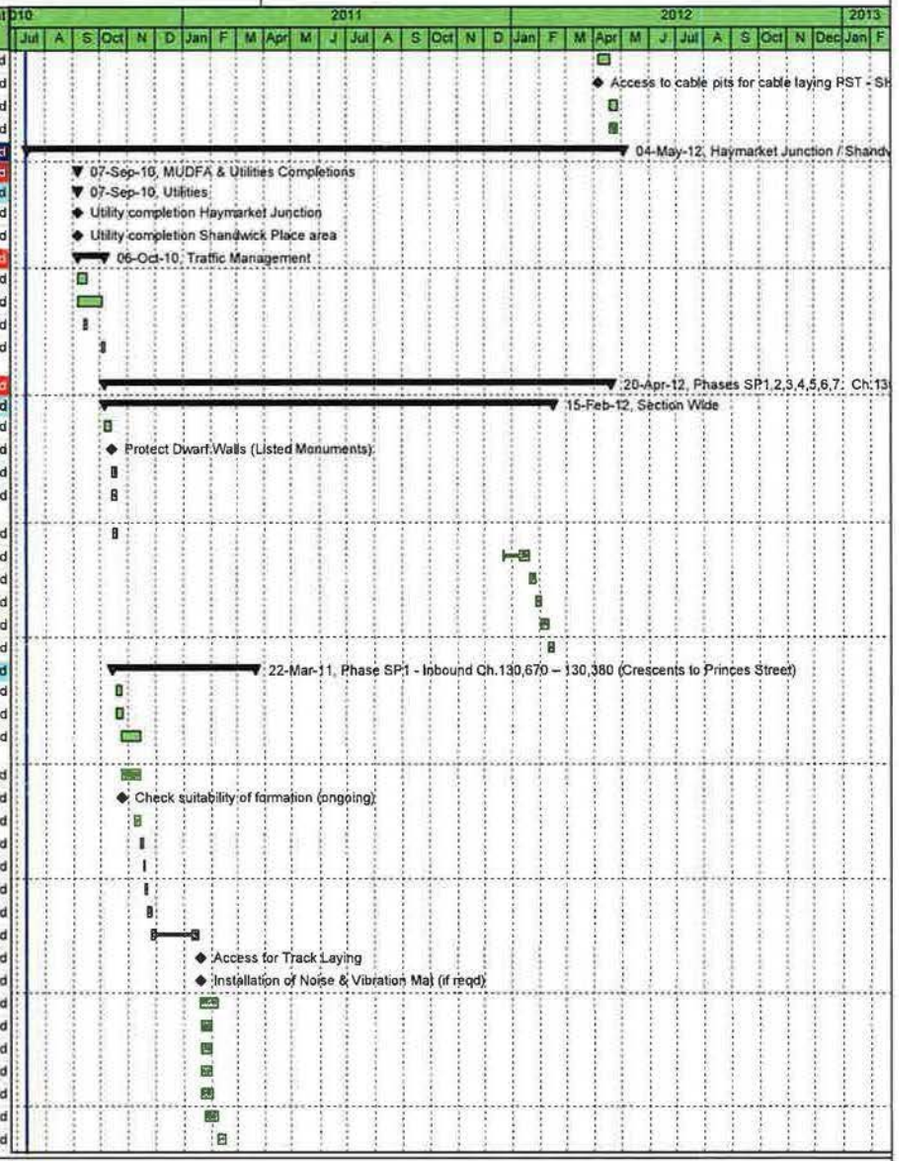
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-15-SGNW-60	Install Signalling Wayside Equipment PST - SHP	9d	06-Apr-12	19-Apr-12	18d
1D-15-ELEC-31	Access to cable pits for cable laying PST - SHP	0d	06-Apr-12		10d
1D-15/16-TELC-60	Install Fibre Optic Cables SAS - PST - SHP	7d	18-Apr-12	27-Apr-12	18d
1D-14-SGNW-60	Install Signalling Wayside Equipment SHP - HAY	6d	19-Apr-12	27-Apr-12	18d
Haymarket Junction / Shandwick Place (Sections 1D Ch.130,380 to 2A Ch.200,030)		447d	12-Jul-10	04-May-12	141d
MUDFA & Utilities Completions		0d	07-Sep-10	07-Sep-10	14d
Utilities		0d	07-Sep-10	07-Sep-10	14d
1D-14-1065	Utility completion Haymarket Junction	0d		07-Sep-10*	10d
1D-15-1075	Utility completion Shandwick Place area	0d		07-Sep-10*	14d
Traffic Management		21d	07-Sep-10	06-Oct-10	14d
1D-14-1055	Enabling Works - Haymarket Junction	7d	07-Sep-10	16-Sep-10	10d
1D-15-1016	Enabling Works - Shandwick Place	19d	07-Sep-10	04-Oct-10	14d
1D-14-H1-928	TM Phase H1 - (Main Area - Eastbound Side)	2d	14-Sep-10	16-Sep-10	10d
1D-15-SP1-935	TM Phase Ch.130,960 – 130,380 (Palmerston Place – Princes Street)	2d	04-Oct-10	06-Oct-10	14d
Phases SP1,2,3,4,5,6,7. Ch.130,960 – 130,380 (Palmerston Place – Princes Street)		376d	06-Oct-10	20-Apr-12	151d
Section Wide		329d	06-Oct-10	15-Feb-12	83d
1D-14/15-469	Erect Pedestrian Barrier	5d	06-Oct-10	13-Oct-10	14d
1D-14/15-730	Protect Dwarf Walls (Listed Monuments)	0d	13-Oct-10		14d
1D-14/15-501	Tree Removal	4d	13-Oct-10	19-Oct-10	14d
1D-14/15-493	Investigate services / outfall positions / inlet-outlet positions / levels	4d	13-Oct-10	19-Oct-10	45d
1D-14/15-502	Site Clearance & Site Compound	3d	14-Oct-10	19-Oct-10	14d
1D-14/15-JNCS-60	installation of traffic light control - Junction 41	11d	22-Dec-11	20-Jan-12	88d
1D-14/15-JNCS-70	installation of traffic light control - Junction 42	5d	20-Jan-12	27-Jan-12	83d
1D-14/15-JNCS-80	installation of traffic light control - Junction 43	4d	27-Jan-12	02-Feb-12	83d
1D-14/15-JNCS-90	installation of traffic light control - Junction 44	6d	02-Feb-12	10-Feb-12	83d
1D-14/15-JNCS-100	installation of traffic light control - Junction 45	3d	10-Feb-12	15-Feb-12	83d
Phase SP1 - Inbound Ch.130,670 – 130,380 (Crescents to Princes Street)		101d	15-Oct-10	22-Mar-11	131d
1D-14O-SP1-595	Plane Main Carriageway 250mm	4d	19-Oct-10	25-Oct-10	14d
1D-14O-SP1-514	Core/Cast OLE Pole Foundations	5d	19-Oct-10	26-Oct-10	75d
1D-14O-SP1-516	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	13d	25-Oct-10	15-Nov-10	14d
1D-14O-SP1-497	Remove existing kerbs	13d	25-Oct-10	15-Nov-10	14d
1D-14O-SP1-498	Check suitability of formation (ongoing)	0d	25-Oct-10		24d
1D-14O-SP1-489	Capping Layer to Adjacent Carriageway (600mm)	5d	08-Nov-10	15-Nov-10	16d
1D-14O-SP1-820	Make good Formation with Type 1 (Ave 220mm)	2d	15-Nov-10	17-Nov-10	14d
1D-14O-SP1-511	Installation of IMU Drains and Cable Ducting	2d	17-Nov-10	19-Nov-10	14d
1D-14O-SP1-512	Carry out inspection and testing of Subgrade	1d	19-Nov-10	22-Nov-10	14d
1D-14O-SP1-513	Blinding Concrete	4d	22-Nov-10	26-Nov-10	14d
1D-14O-SP1-654	250mm RC Improvement Slab (+ cure lag)	8d	26-Nov-10	17-Jan-11	14d
1D-14O-SP1-665	Access for Track Laying	0d	19-Jan-11		14d
1D-14O-SP1-596	Installation of Noise & Vibration Mat (if reqd)	0d	19-Jan-11		14d
1D-14O-TRCK-70(3)	Set track (1x288m)(sleepers/rail) + mob	14d	19-Jan-11	08-Feb-11	14d
1D-14O-SP1-508	Welding & Grinding	8d	20-Jan-11	01-Feb-11	14d
1D-14O-SP1-499	Drainage / Rail Connections	8d	20-Jan-11	01-Feb-11	33d
1D-14O-SP1-830	Installation of IMU Boxes and Loops	8d	20-Jan-11	01-Feb-11	33d
1D-14O-SP1-521	Final Rail Alignment - Check and Approve	8d	21-Jan-11	02-Feb-11	14d
1D-14O-SP1-522	230mm Concrete Supporting Layer (+ cure lag)	10d	25-Jan-11	08-Feb-11	30d
1D-14O-SP1-655	OLE Wall Fixings Inbound	6d	08-Feb-11	16-Feb-11	51d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0081

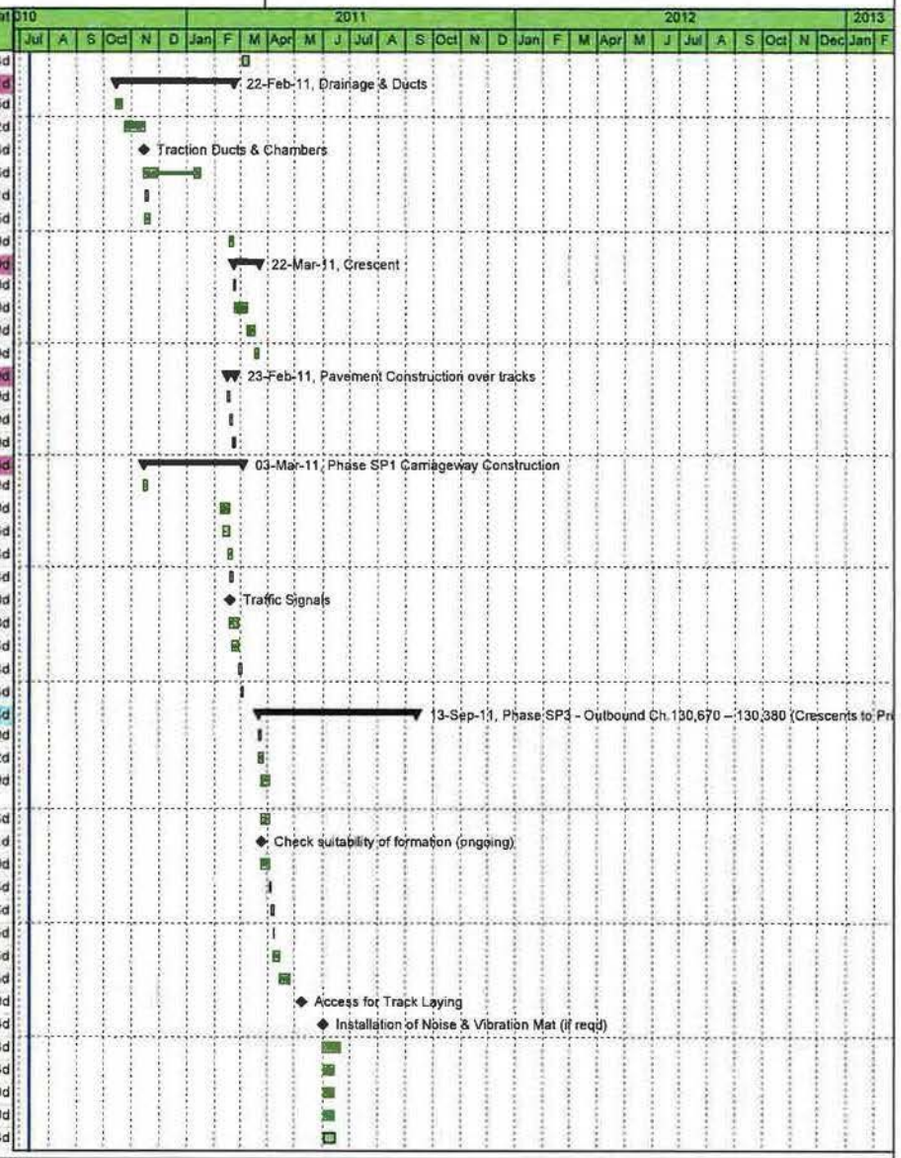
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14O-SP1-523	Mill Rail Joint / Sealing Compound	6d	03-Mar-11	11-Mar-11	34d
Drainage & Ducts		61d	15-Oct-10	22-Feb-11	151d
1D-14O-SP1-487	Outfall Connections	5d	15-Oct-10	22-Oct-10	45d
1D-14O-SP1-478	Drainage to Discharge Points	14d	25-Oct-10	16-Nov-10	72d
1D-14O-SP1-690	Traction Ducts & Chambers	0d	15-Nov-10		33d
1D-14O-SP1-491	Comms Ducts & Chambers	17d	15-Nov-10	17-Jan-11	16d
1D-14O-SP1-479	Aco Channel	3d	16-Nov-10	19-Nov-10	171d
1D-14O-SP1-492	Traffic Signal Ducts	4d	16-Nov-10	22-Nov-10	76d
1D-14O-SP1-483	Lighting Ducts	2d	18-Feb-11	22-Feb-11	30d
Crescent		20d	22-Feb-11	22-Mar-11	30d
1D-14O-SP1-504	Excavate existing junction	1d	22-Feb-11	23-Feb-11	30d
1D-14O-SP1-515	Kerbing	10d	23-Feb-11	09-Mar-11	30d
1D-14O-SP1-506	Setted Area	6d	09-Mar-11	17-Mar-11	30d
1D-14O-SP1-507	Footpath	3d	17-Mar-11	22-Mar-11	30d
Pavement Construction over tracks		6d	15-Feb-11	23-Feb-11	40d
1D-14O-SP1-519	124mm Binder	3d	15-Feb-11	18-Feb-11	40d
1D-14O-SP1-850	35mm Wearing Course	1d	18-Feb-11	21-Feb-11	40d
1D-14O-SP1-601	15mm Surface Treatment	2d	21-Feb-11	23-Feb-11	40d
Phase SP1 Carriageway Construction		67d	15-Nov-10	03-Mar-11	144d
1D-14O-SP1-1003	Sub-base 220mm all carriageway areas	4d	15-Nov-10	19-Nov-10	59d
1D-14O-SP1-1004	Kerbing - Eastbound/Islands/Crossings	8d	08-Feb-11	18-Feb-11	30d
1D-14O-SP1-1006	Signs / Street Furniture	5d	10-Feb-11	17-Feb-11	36d
1D-14O-SP1-997	Sub-base shape all carriageway areas	3d	16-Feb-11	21-Feb-11	34d
1D-14O-SP1-1035	Gullies	2d	17-Feb-11	21-Feb-11	34d
1D-14O-SP1-1008	Traffic Signals	0d	18-Feb-11		40d
1D-14O-SP1-999	Footpath Works	6d	18-Feb-11	28-Feb-11	128d
1D-14O-SP1-1190	225mm Base	5d	21-Feb-11	28-Feb-11	34d
1D-14O-SP1-1021	60mm Binder	2d	28-Feb-11	02-Mar-11	34d
1D-14O-SP1-992	35mm Wearing Course	1d	02-Mar-11	03-Mar-11	34d
Phase SP3 - Outbound Ch.130,670 – 130,380 (Crescents to Princes Street)		121d	22-Mar-11	13-Sep-11	14d
1D-14P-SP3-568	Plane Main Carriageway 250mm	2d	22-Mar-11	24-Mar-11	30d
1D-14P-SP3-576	Core/Cast OLE Pole Foundations	4d	22-Mar-11	28-Mar-11	72d
1D-14P-SP3-578	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	6d	24-Mar-11	04-Apr-11	30d
1D-14P-SP3-579	Remove existing kerbs	6d	24-Mar-11	04-Apr-11	36d
1D-14P-SP3-580	Check suitability of formation (ongoing)	0d	24-Mar-11		31d
1D-14P-SP3-581	Capping Layer to Adjacent Carriageway (600mm)	5d	25-Mar-11	04-Apr-11	30d
1D-14P-SP3-582	Make good Formation with Type 1 (Ave 220mm)	1d	04-Apr-11	05-Apr-11	36d
1D-14P-SP3-583	Installation of IMU Drains and Cable Ducting	2d	05-Apr-11	07-Apr-11	36d
1D-14P-SP3-584	Carry out inspection and testing of Subgrade	1d	07-Apr-11	08-Apr-11	36d
1D-14P-SP3-585	Blinding Concrete	4d	08-Apr-11	14-Apr-11	36d
1D-14P-SP3-586	250mm RC Improvement Slab (+ cure lag)	8d	14-Apr-11	26-Apr-11	36d
1D-14P-SP3-587	Access for Track Laying	0d	09-May-11		30d
1D-14P-SP3-588	Installation of Noise & Vibration Mat (if reqd)	0d	01-Jun-11		14d
1D-14P-TRCK-70(3)	Set track (1x288m)(sleepers/rail) + mob	14d	01-Jun-11	21-Jun-11	14d
1D-14P-SP3-590	Welding & Grinding	8d	02-Jun-11	14-Jun-11	14d
1D-14P-SP3-591	Drainage / Rail Connections	8d	02-Jun-11	14-Jun-11	19d
1D-14P-SP3-592	Installation of IMU Boxes and Loops	8d	02-Jun-11	14-Jun-11	19d
1D-14P-SP3-593	Final Rail Alignment - Check and Approve	8d	03-Jun-11	15-Jun-11	14d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

CEC00183919_0082

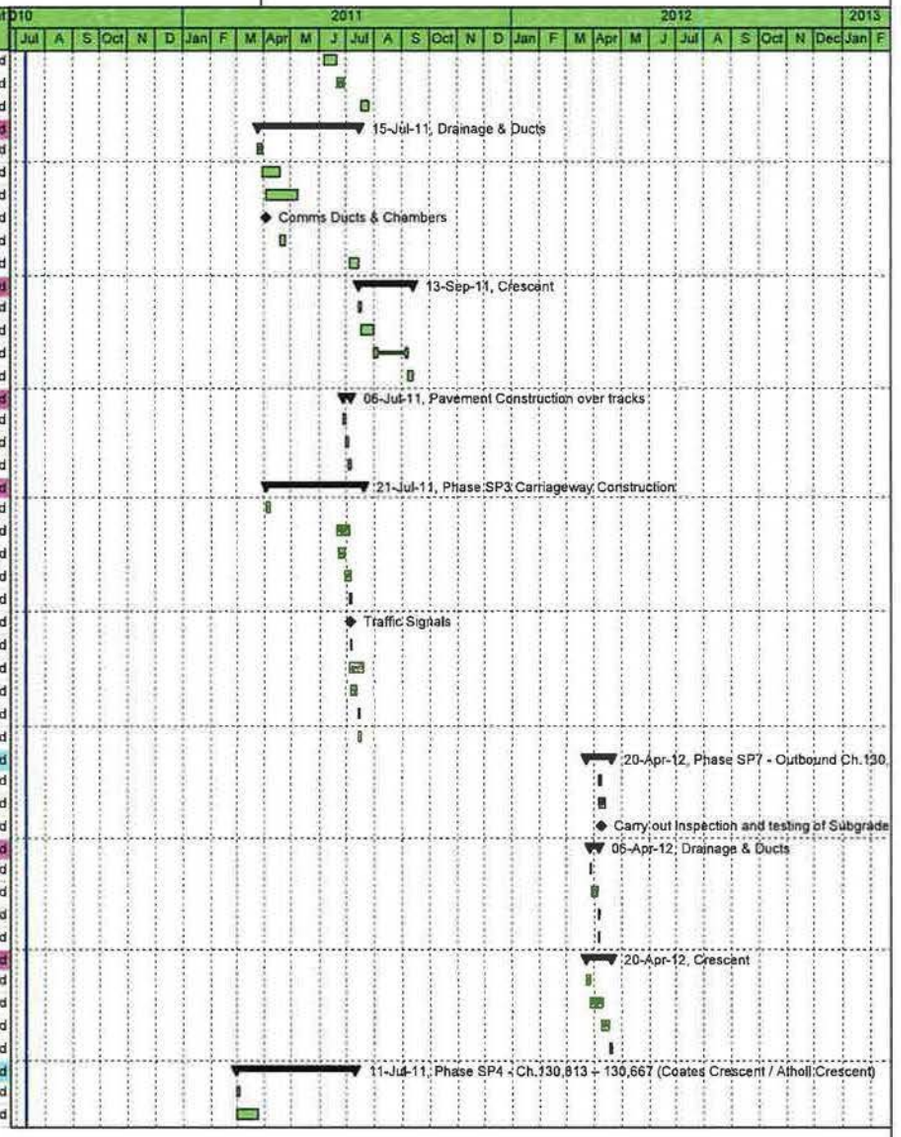
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14P-SP3-594	230mm Concrete Supporting Layer (+ cure lag)	10d	07-Jun-11	21-Jun-11	14d
1D-14P-SP3-577	OLE Wall Fixings Outbound	6d	21-Jun-11	29-Jun-11	44d
1D-14P-SP3-616	Mill Rail Joint / Sealing Compound	6d	18-Jul-11	26-Jul-11	25d
Drainage & Ducts		78d	24-Mar-11	15-Jul-11	42d
1D-14P-SP3-570	Outfall Connections	4d	24-Mar-11	30-Mar-11	75d
1D-14P-SP3-571	Drainage to Discharge Points	13d	30-Mar-11	19-Apr-11	75d
1D-14P-SP3-572	Traction Ducts & Chambers	24d	04-Apr-11	09-May-11	30d
1D-14P-SP3-573	Comms Ducts & Chambers	0d	04-Apr-11		54d
1D-14P-SP3-574	Traffic Signal Ducts	4d	19-Apr-11	25-Apr-11	80d
1D-14P-SP3-575	Lighting Ducts	8d	05-Jul-11	15-Jul-11	14d
Crescent		41d	15-Jul-11	13-Sep-11	14d
1D-14P-SP3-836	Excavate existing junction	1d	15-Jul-11	18-Jul-11	14d
1D-14P-SP3-807	Kerbing	10d	18-Jul-11	01-Aug-11	14d
1D-14P-SP3-818	Setted Area	7d	01-Aug-11	07-Sep-11	14d
1D-14P-SP3-809	Footpath	4d	07-Sep-11	13-Sep-11	14d
Pavement Construction over tracks		6d	28-Jun-11	06-Jul-11	52d
1D-14P-SP3-821	124mm Binder	3d	28-Jun-11	01-Jul-11	33d
1D-14P-SP3-792	35mm Wearing Course	1d	01-Jul-11	04-Jul-11	33d
1D-14P-SP3-803	15mm Surface Treatment	2d	04-Jul-11	06-Jul-11	33d
Phase SP3 Carriageway Construction		76d	04-Apr-11	21-Jul-11	47d
1D-14P-SP3-605	Sub-base 220mm all carriageway areas	4d	04-Apr-11	08-Apr-11	64d
1D-14P-SP3-606	Kerbing - Eastbound/Islands/Crossings	10d	21-Jun-11	05-Jul-11	14d
1D-14P-SP3-608	Signs / Street Furniture	5d	23-Jun-11	30-Jun-11	29d
1D-14P-SP3-609	Sub-base shape all carriageway areas	4d	30-Jun-11	06-Jul-11	25d
1D-14P-SP3-607	Gullies	2d	04-Jul-11	06-Jul-11	25d
1D-14P-SP3-610	Traffic Signals	0d	05-Jul-11		31d
1D-14P-SP3-611	Pedestrian Guardrails	2d	05-Jul-11	07-Jul-11	37d
1D-14P-SP3-612	Footpath Works	12d	05-Jul-11	21-Jul-11	28d
1D-14P-SP3-613	225mm Base	5d	06-Jul-11	13-Jul-11	25d
1D-14P-SP3-614	60mm Binder	2d	13-Jul-11	15-Jul-11	25d
1D-14P-SP3-615	35mm Wearing Course	1d	15-Jul-11	18-Jul-11	25d
Phase SP7 - Outbound Ch.130,660 (East Atholl Crescent)		20d	23-Mar-12	20-Apr-12	151d
1D-14-SP7-769	Make good Formation with Type 1	1d	06-Apr-12	09-Apr-12	13d
1D-14-SP7-776	Traffic Signals	5d	06-Apr-12	13-Apr-12	133d
1D-14-SP7-800	Carry out inspection and testing of Subgrade	0d	09-Apr-12		13d
Drainage & Ducts		8d	27-Mar-12	06-Apr-12	10d
1D-14-SP7-765	Outfall Connections	2d	27-Mar-12	29-Mar-12	10d
1D-14-SP7-766	Drainage to Discharge Points	4d	29-Mar-12	04-Apr-12	10d
1D-14-SP7-767	Traffic Signal Ducts	2d	04-Apr-12	06-Apr-12	10d
1D-14-SP7-768	Lighting Ducts	2d	04-Apr-12	06-Apr-12	10d
Crescent		20d	23-Mar-12	20-Apr-12	13d
1D-14-SP7-772	Excavate existing junction	2d	23-Mar-12	27-Mar-12	10d
1D-14-SP7-773	Kerbing	10d	27-Mar-12	10-Apr-12	18d
1D-14-SP7-774	Setted Area	6d	09-Apr-12	17-Apr-12	13d
1D-14-SP7-775	Footpath	3d	17-Apr-12	20-Apr-12	13d
Phase SP4 - Ch.130,813 – 130,667 (Coates Crescent / Atholl Crescent)		91d	01-Mar-11	11-Jul-11	59d
1D-14R-SP4-618	Plane Main Carriageway for Overlay	3d	01-Mar-11	04-Mar-11	14d
1D-14R-SP4-626	Core/Cast OLE Pole Foundations	18d	01-Mar-11	25-Mar-11	18d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

CEC00183919_0083

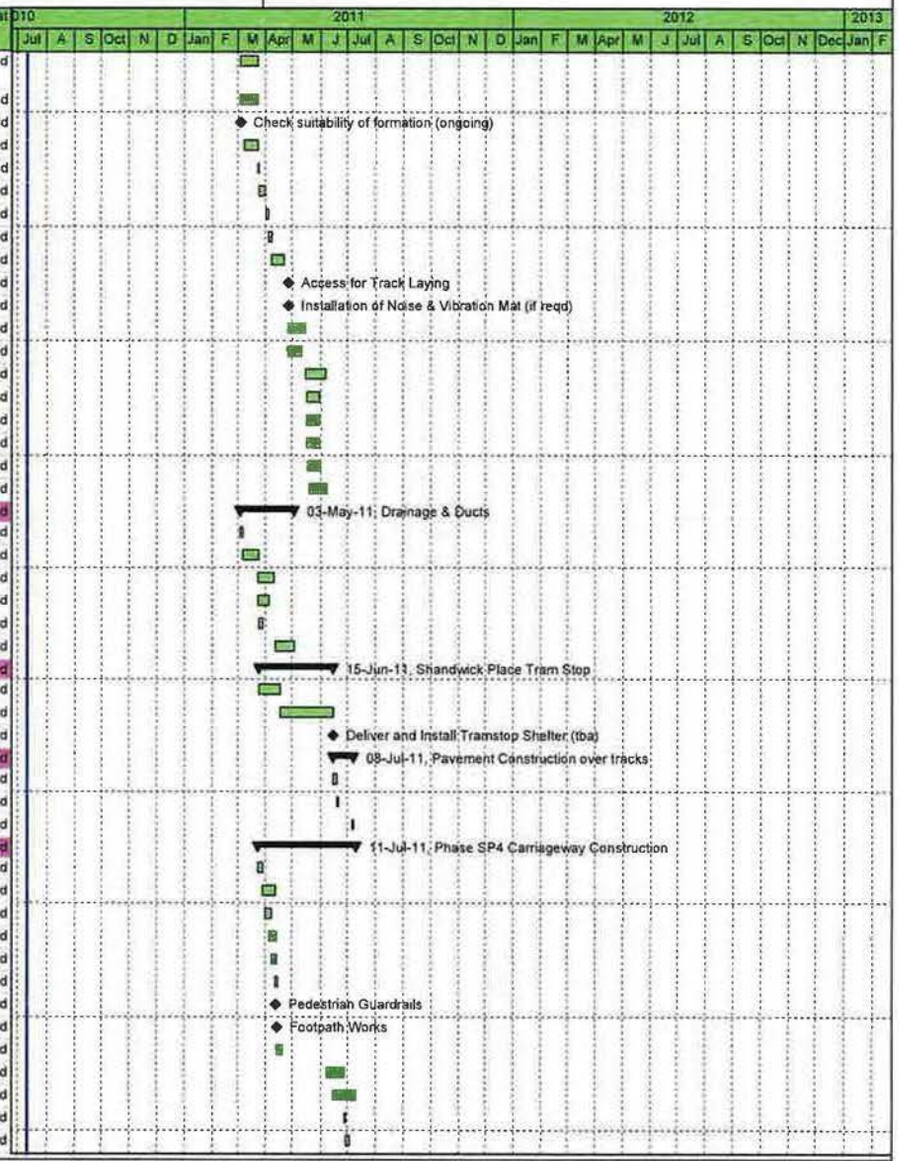
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14R-SP4-627	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	13d	04-Mar-11	23-Mar-11	14d
1D-14R-SP4-628	Remove existing kerbs	13d	04-Mar-11	23-Mar-11	14d
1D-14R-SP4-629	Check suitability of formation (ongoing)	0d	04-Mar-11		20d
1D-14R-SP4-630	Capping Layer to Adjacent Carriageway (600mm)	11d	08-Mar-11	23-Mar-11	18d
1D-14R-SP4-631	Make good Formation with Type 1 (Ave 220mm)	2d	23-Mar-11	25-Mar-11	14d
1D-14R-SP4-632	Installation of IMU Drains and Cable Ducting	4d	25-Mar-11	31-Mar-11	14d
1D-14R-SP4-633	Carry out inspection and testing of Subgrade	1d	31-Mar-11	04-Apr-11	14d
1D-14R-SP4-634	Blinding Concrete	4d	04-Apr-11	08-Apr-11	14d
1D-14R-SP4-635	250mm RC Improvement Slab (+ cure lag)	10d	08-Apr-11	22-Apr-11	14d
1D-14R-SP4-636	Access for Track Laying	0d	26-Apr-11		14d
1D-14R-SP4-637	Installation of Noise & Vibration Mat (if reqd)	0d	26-Apr-11		14d
1D-14R-TRCK-90(3)	Track Crossover + mob	13d	26-Apr-11	16-May-11	14d
1D-14/15-SIGN-70	point machine mechanical set up	10d	26-Apr-11	11-May-11	18d
1D-14R-TRCK-70(3)	Set track (2x146m)(sleepers/rail) + mob	15d	16-May-11	07-Jun-11	14d
1D-14R-SP4-640	Welding & Grinding	9d	17-May-11	31-May-11	14d
1D-14R-SP4-641	Drainage / Rail Connections	9d	17-May-11	31-May-11	46d
1D-14R-SP4-642	Installation of IMU Boxes and Loops	9d	17-May-11	31-May-11	46d
1D-14R-SP4-643	Final Rail Alignment - Check and Approve	9d	18-May-11	01-Jun-11	14d
1D-14R-SP4-644	230mm Concrete Supporting Layer (+ cure lag)	12d	20-May-11	08-Jun-11	40d
Drainage & Ducts		40d	04-Mar-11	03-May-11	64d
1D-14R-SP4-620	Outfall Connections	1d	04-Mar-11	07-Mar-11	31d
1D-14R-SP4-621	Drainage to Discharge Points	14d	07-Mar-11	25-Mar-11	31d
1D-14R-SP4-622	Traction Ducts & Chambers	12d	23-Mar-11	11-Apr-11	25d
1D-14R-SP4-623	Comms Ducts & Chambers	8d	23-Mar-11	05-Apr-11	29d
1D-14R-SP4-624	Traffic Signal Ducts	2d	25-Mar-11	29-Mar-11	31d
1D-14R-SP4-625	Lighting Ducts	14d	12-Apr-11	03-May-11	65d
Shandwick Place Tram Stop		55d	25-Mar-11	15-Jun-11	77d
1D-14R-SP4-646	Ducting and Chambers	15d	25-Mar-11	18-Apr-11	58d
1D-14R-SP4-647	Tramstop Platform	40d	18-Apr-11	15-Jun-11	58d
1D-14R-SP4-648	Deliver and Install Tramstop Shelter (tba)	0d	15-Jun-11*		58d
Pavement Construction over tracks		17d	15-Jun-11	08-Jul-11	60d
1D-14R-SP4-1020	124mm Binder	3d	15-Jun-11	20-Jun-11	52d
1D-14R-SP4-841	35mm Wearing Course	1d	20-Jun-11	21-Jun-11	52d
1D-14R-SP4-802	15mm Surface Treatment	2d	06-Jul-11	08-Jul-11	41d
Phase SP4 Carriageway Construction		75d	23-Mar-11	11-Jul-11	59d
1D-14R-SP4-844	Sub-base 220mm all carriageway areas	4d	23-Mar-11	29-Mar-11	18d
1D-14R-SP4-895	Kerbing - Eastbound/Westbound K7	9d	29-Mar-11	12-Apr-11	18d
1D-14R-SP4-847	Signs / Street Furniture	5d	31-Mar-11	08-Apr-11	21d
1D-14R-SP4-868	Sub-base shape all carriageway areas	6d	05-Apr-11	13-Apr-11	18d
1D-14R-SP4-866	Gullies	3d	08-Apr-11	13-Apr-11	18d
1D-14R-SP4-849	Traffic Signals	2d	12-Apr-11	14-Apr-11	22d
1D-14R-SP4-1040	Pedestrian Guardrails	0d	12-Apr-11		101d
1D-14R-SP4-861	Footpath Works	0d	13-Apr-11		101d
1D-14R-SP4-822	225mm Base - Nearside Lanes only	5d	13-Apr-11	20-Apr-11	18d
1D-14R-SP4-843	Kerbing - Tramstop K7/K11	14d	08-Jun-11*	28-Jun-11	40d
1D-14R-SP4-854	Setted Area	18d	15-Jun-11	11-Jul-11	40d
1D-14R-SP4-905	225mm Base	2d	28-Jun-11	30-Jun-11	41d
1D-14R-SP4-876	60mm Binder	2d	30-Jun-11	04-Jul-11	41d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0084

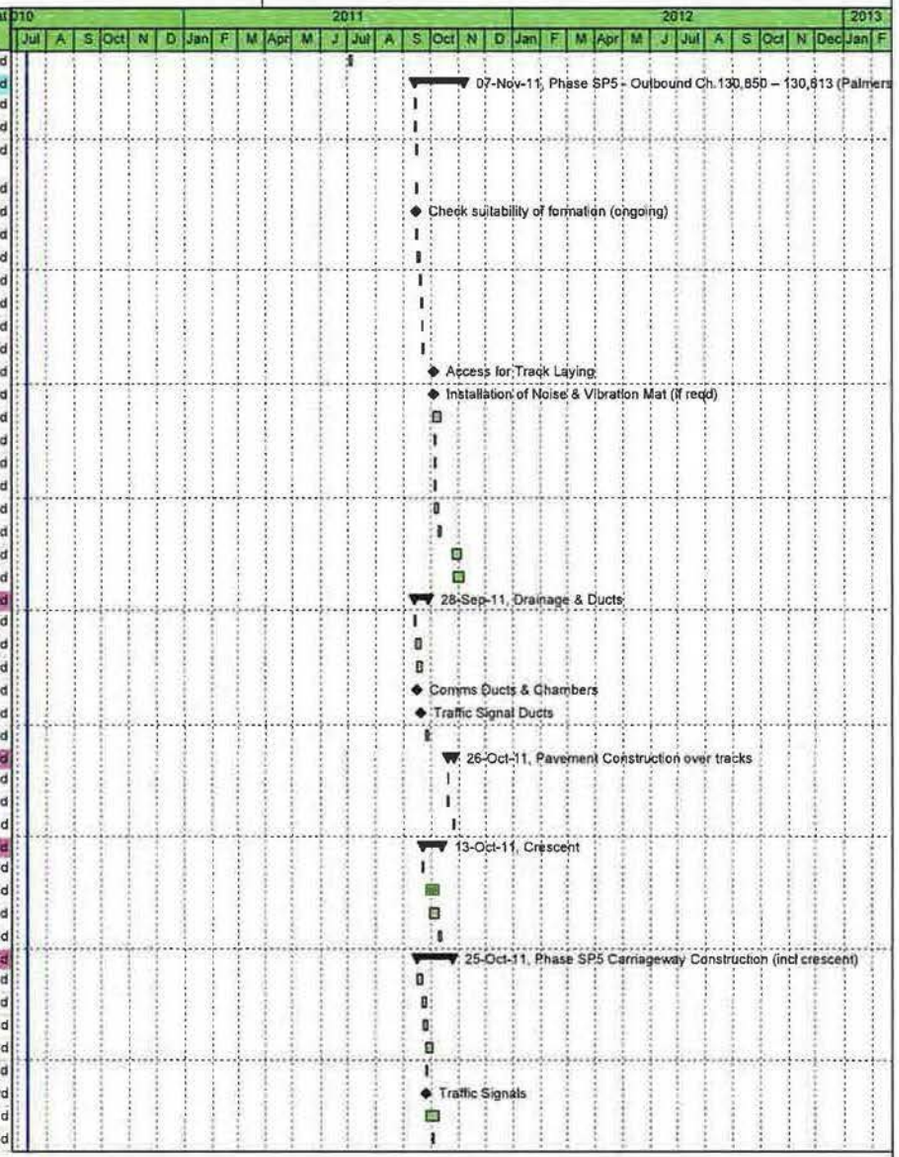
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14R-SP4-857	35mm Wearing Course	2d	04-Jul-11	06-Jul-11	41d
Phase SP5 - Outbound Ch.130,850 – 130,813 (Palmerston Place – Crescents)		39d	13-Sep-11	07-Nov-11	14d
1D-14W-SP5-709	Plane Main Carriageway 250mm	1d	13-Sep-11	14-Sep-11	14d
1D-14W-SP5-727	Core/Cast OLE Pole Foundations	2d	13-Sep-11	15-Sep-11	19d
1D-14W-SP5-738	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	2d	14-Sep-11	16-Sep-11	14d
1D-14W-SP5-719	Remove existing kerbs	2d	14-Sep-11	16-Sep-11	19d
1D-14W-SP5-940	Check suitability of formation (ongoing)	0d	14-Sep-11		15d
1D-14W-SP5-741	Capping Layer to Adjacent Carriageway (600mm)	1d	15-Sep-11	16-Sep-11	14d
1D-14W-SP5-722	Make good Formation with Type 1 (Ave 220mm)	1d	16-Sep-11	19-Sep-11	19d
1D-14W-SP5-723	Installation of IMU Drains and Cable Ducting	1d	19-Sep-11	20-Sep-11	19d
1D-14W-SP5-754	Carry out inspection and testing of Subgrade	1d	20-Sep-11	21-Sep-11	19d
1D-14W-SP5-805	Blinding Concrete	1d	21-Sep-11	22-Sep-11	19d
1D-14W-SP5-756	250mm RC Improvement Slab (+ cure lag)	1d	22-Sep-11	23-Sep-11	19d
1D-14W-SP5-737	Access for Track Laying	0d	04-Oct-11		14d
1D-14W-SP5-748	Installation of Noise & Vibration Mat (if reqd)	0d	04-Oct-11		14d
1D-14W-TRCK-70(3)	Set track (1x36m)(sleepers/rail) + mob	6d	04-Oct-11	12-Oct-11	14d
1D-14W-SP5-950	Welding & Grinding	2d	05-Oct-11	07-Oct-11	14d
1D-14W-SP5-751	Drainage / Rail Connections	2d	05-Oct-11	07-Oct-11	17d
1D-14W-SP5-732	Installation of IMU Boxes and Loops	2d	05-Oct-11	07-Oct-11	17d
1D-14W-SP5-733	Final Rail Alignment - Check and Approve	2d	06-Oct-11	10-Oct-11	14d
1D-14W-SP5-784	230mm Concrete Supporting Layer (+ cure lag)	2d	10-Oct-11	12-Oct-11	14d
1D-14W-SP5-815	Road Signs and Markings	5d	25-Oct-11	04-Nov-11	15d
1D-14W-SP5-786	Mill Rail Joint / Sealing Compound	5d	26-Oct-11	07-Nov-11	14d
Drainage & Ducts		11d	13-Sep-11	28-Sep-11	42d
1D-14W-SP5-731	Outfall Connections	2d	13-Sep-11	15-Sep-11	24d
1D-14W-SP5-712	Drainage to Discharge Points	3d	15-Sep-11	20-Sep-11	24d
1D-14W-SP5-713	Traction Ducts & Chambers	3d	16-Sep-11	21-Sep-11	23d
1D-14W-SP5-744	Comms Ducts & Chambers	0d	16-Sep-11		26d
1D-14W-SP5-795	Traffic Signal Ducts	0d	20-Sep-11		24d
1D-14W-SP5-746	Lighting Ducts	2d	26-Sep-11	28-Sep-11	39d
Pavement Construction over tracks		5d	19-Oct-11	26-Oct-11	17d
1D-14W-SP5-846	124mm Binder	1d	19-Oct-11	20-Oct-11	14d
1D-14W-SP5-827	35mm Wearing Course	1d	20-Oct-11	21-Oct-11	14d
1D-14W-SP5-838	15mm Surface Treatment	1d	25-Oct-11	26-Oct-11	14d
Crescent		15d	22-Sep-11	13-Oct-11	31d
1D-14W-SP5-1030	Excavate existing junction	1d	22-Sep-11	23-Sep-11	29d
1D-14W-SP5-851	Kerbing	10d	26-Sep-11	10-Oct-11	28d
1D-14W-SP5-812	Setted Area	6d	30-Sep-11	10-Oct-11	28d
1D-14W-SP5-823	Footpath	3d	10-Oct-11	13-Oct-11	28d
Phase SP5 Carriageway Construction (incl crescent)		27d	16-Sep-11	25-Oct-11	23d
1D-14W-SP5-845	Sub-base 220mm all carriageway areas	4d	16-Sep-11	22-Sep-11	14d
1D-14W-SP5-816	Kerbing - Eastbound/Islands/Crossings	2d	22-Sep-11	26-Sep-11	14d
1D-14W-SP5-787	Gullies	2d	23-Sep-11	27-Sep-11	18d
1D-14W-SP5-798	Signs / Street Furniture	5d	26-Sep-11	03-Oct-11	14d
1D-14W-SP5-779	Sub-base shape all carriageway areas	1d	26-Sep-11	27-Sep-11	18d
1D-14W-SP5-980	Traffic Signals	0d	26-Sep-11		20d
1D-14W-SP5-791	Footpath Works	10d	26-Sep-11	10-Oct-11	31d
1D-14W-SP5-762	225mm Base	1d	03-Oct-11	04-Oct-11	14d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0085

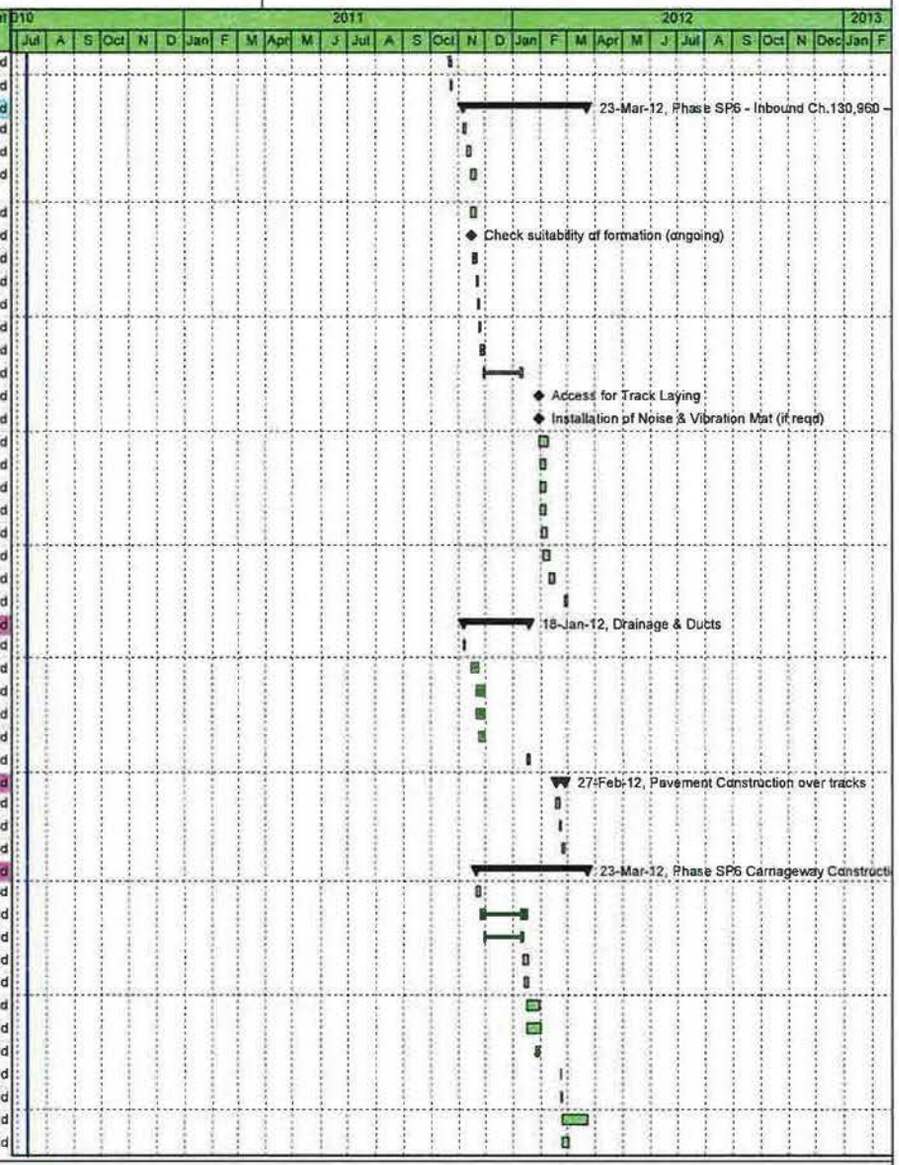
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14W-SP5-783	60mm Binder	1d	21-Oct-11	24-Oct-11	14d
1D-14W-SP5-824	35mm Wearing Course	1d	24-Oct-11	25-Oct-11	14d
Phase SP6 - Inbound Ch.130,960 – 130,813 (Palmerston Place – Crescents)		**88d**	**07-Nov-11**	**23-Mar-12**	**10d**
1D-14X-SP6-886	Core/Cast OLE Pole Foundations	3d	07-Nov-11	10-Nov-11	21d
1D-14X-SP6-878	Plane Main Carriageway 250mm	2d	11-Nov-11	15-Nov-11	10d
1D-14X-SP6-888	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	4d	15-Nov-11	21-Nov-11	10d
1D-14X-SP6-859	Remove existing kerbs	4d	15-Nov-11	21-Nov-11	20d
1D-14X-SP6-1050	Check suitability of formation (ongoing)	0d	15-Nov-11		11d
1D-14X-SP6-871	Capping Layer to Adjacent Carriageway (600mm)	3d	16-Nov-11	21-Nov-11	10d
1D-14X-SP6-832	Make good Formation with Type 1 (Ave 220mm)	1d	21-Nov-11	22-Nov-11	20d
1D-14X-SP6-853	Installation of IMU Drains and Cable Ducting	2d	22-Nov-11	24-Nov-11	20d
1D-14X-SP6-864	Carry out inspection and testing of Subgrade	1d	24-Nov-11	25-Nov-11	20d
1D-14X-SP6-915	Blinding Concrete	2d	25-Nov-11	29-Nov-11	20d
1D-14X-SP6-896	250mm RC Improvement Slab (+ cure lag)	5d	29-Nov-11	12-Jan-12	20d
1D-14X-SP6-887	Access for Track Laying	0d	30-Jan-12		10d
1D-14X-SP6-898	Installation of Noise & Vibration Mat (if reqd)	0d	30-Jan-12		10d
1D-14X-TRCK-70(3)	Set track (1x144m)(sleepers/rail) + mob	8d	30-Jan-12	09-Feb-12	10d
1D-14X-SP6-1060	Welding & Grinding	4d	31-Jan-12	06-Feb-12	10d
1D-14X-SP6-881	Drainage / Rail Connections	4d	31-Jan-12	06-Feb-12	14d
1D-14X-SP6-842	Installation of IMU Boxes and Loops	4d	31-Jan-12	06-Feb-12	14d
1D-14X-SP6-863	Final Rail Alignment - Check and Approve	4d	01-Feb-12	07-Feb-12	10d
1D-14X-SP6-874	230mm Concrete Supporting Layer (+ cure lag)	5d	03-Feb-12	10-Feb-12	10d
1D-14X-SP6-877	OLE Wall Fixings Inbound	3d	10-Feb-12	15-Feb-12	37d
1D-14X-SP6-852	Mill Rail Joint / Sealing Compound	3d	27-Feb-12	01-Mar-12	26d
Drainage & Ducts		**41d**	**07-Nov-11**	**18-Jan-12**	**57d**
1D-14X-SP6-1120	Outfall Connections	1d	07-Nov-11	08-Nov-11	21d
1D-14X-SP6-951	Drainage to Discharge Points	7d	15-Nov-11	24-Nov-11	16d
1D-14X-SP6-922	Traction Ducts & Chambers	7d	21-Nov-11	30-Nov-11	26d
1D-14X-SP6-933	Comms Ducts & Chambers	7d	21-Nov-11	30-Nov-11	26d
1D-14X-SP6-944	Traffic Signal Ducts	4d	24-Nov-11	30-Nov-11	16d
1D-14X-SP6-975	Lighting Ducts	2d	16-Jan-12	18-Jan-12	57d
Pavement Construction over tracks		**6d**	**17-Feb-12**	**27-Feb-12**	**26d**
1D-14X-SP6-856	124mm Binder	2d	17-Feb-12	21-Feb-12	10d
1D-14X-SP6-837	35mm Wearing Course	1d	21-Feb-12	22-Feb-12	10d
1D-14X-SP6-858	15mm Surface Treatment	1d	24-Feb-12	27-Feb-12	26d
Phase SP6 Carriageway Construction (incl crescent)		**78d**	**21-Nov-11**	**23-Mar-12**	**10d**
1D-14X-SP6-990	Sub-base 220mm all carriageway areas	4d	21-Nov-11	25-Nov-11	10d
1D-14X-SP6-801	Kerbing - Eastbound/Islands/Crossings	9d	25-Nov-11	16-Jan-12	10d
1D-14X-SP6-793	Signs / Street Furniture	5d	29-Nov-11	12-Jan-12	20d
1D-14X-SP6-834	Sub-base shape all carriageway areas	4d	11-Jan-12	17-Jan-12	17d
1D-14X-SP6-782	Gullies	2d	13-Jan-12	17-Jan-12	17d
1D-14X-SP6-855	Traffic Signals	10d	16-Jan-12	30-Jan-12	10d
1D-14X-SP6-826	Footpath Works	11d	16-Jan-12	31-Jan-12	48d
1D-14X-SP6-797	225mm Base	2d	26-Jan-12	30-Jan-12	10d
1D-14X-SP6-808	60mm Binder	1d	22-Feb-12	23-Feb-12	10d
1D-14X-SP6-799	35mm Wearing Course	1d	23-Feb-12	24-Feb-12	10d
1D-14X-SP6-1000	Finishes to Cresents	20d	24-Feb-12	23-Mar-12	10d
1D-14X-SP6-811	Road Signs and Markings	5d	24-Feb-12	02-Mar-12	25d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0086

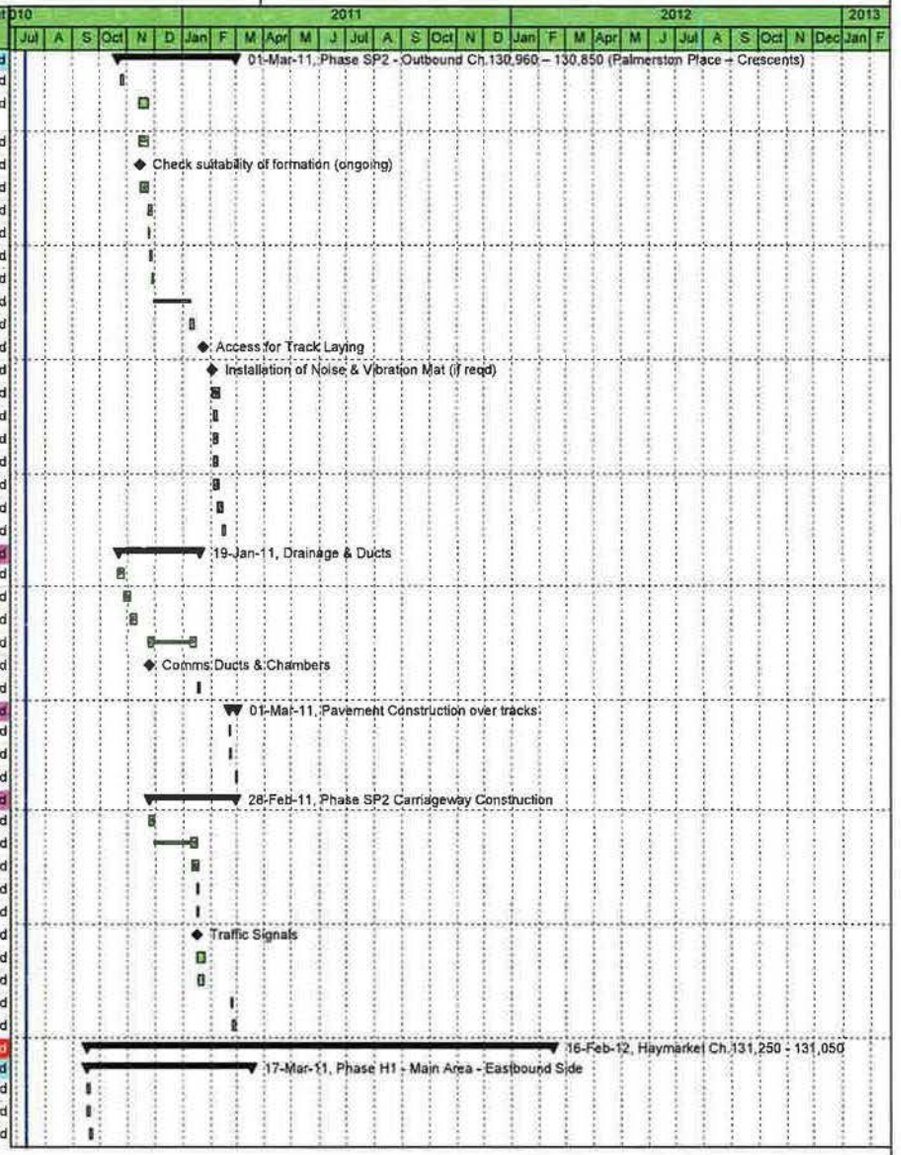
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Phase SP2 - Outbound Ch.130,960 – 130,850 (Palmerston Place – Crescents)		81d	22-Oct-10	01-Mar-11	14d
1D-14V-SP2-525	Plane Main Carriageway 250mm	2d	25-Oct-10	27-Oct-10	32d
1D-14V-SP2-535	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	7d	15-Nov-10	24-Nov-10	21d
1D-14V-SP2-536	Remove existing kerbs	7d	15-Nov-10	24-Nov-10	25d
1D-14V-SP2-537	Check suitability of formation (ongoing)	0d	15-Nov-10		22d
1D-14V-SP2-538	Capping Layer to Adjacent Carriageway (600mm)	6d	16-Nov-10	24-Nov-10	21d
1D-14V-SP2-533	Core/Cast OLE Pole Foundations	3d	24-Nov-10	29-Nov-10	22d
1D-14V-SP2-539	Make good Formation with Type 1 (Ave 220mm)	1d	24-Nov-10	25-Nov-10	25d
1D-14V-SP2-700	Installation of IMU Drains and Cable Ducting	2d	25-Nov-10	29-Nov-10	25d
1D-14V-SP2-541	Carry out inspection and testing of Subgrade	1d	29-Nov-10	30-Nov-10	25d
1D-14V-SP2-542	Blinding Concrete	1d	30-Nov-10	10-Jan-11	25d
1D-14V-SP2-543	250mm RC Improvement Slab (+ cure lag)	4d	10-Jan-11	14-Jan-11	25d
1D-14V-SP2-544	Access for Track Laying	0d	24-Jan-11		21d
1D-14V-SP2-545	Installation of Noise & Vibration Mat (if reqd)	0d	02-Feb-11		14d
1D-14V-TRCK-70(3)	Set track (1x108m)(sleepers/rail) + mob	7d	02-Feb-11	11-Feb-11	14d
1D-14V-SP2-547	Welding & Grinding	3d	03-Feb-11	08-Feb-11	14d
1D-14V-SP2-548	Drainage / Rail Connections	3d	03-Feb-11	08-Feb-11	18d
1D-14V-SP2-549	Installation of IMU Boxes and Loops	3d	03-Feb-11	08-Feb-11	18d
1D-14V-SP2-710	Final Rail Alignment - Check and Approve	3d	04-Feb-11	09-Feb-11	14d
1D-14V-SP2-551	230mm Concrete Supporting Layer (+ cure lag)	4d	08-Feb-11	14-Feb-11	14d
1D-14V-SP2-534	OLE Wall Fixings Outbound	2d	14-Feb-11	16-Feb-11	23d
Drainage & Ducts		52d	22-Oct-10	19-Jan-11	43d
1D-14V-SP2-527	Outfall Connections	4d	22-Oct-10	28-Oct-10	45d
1D-14V-SP2-528	Drainage to Discharge Points	4d	28-Oct-10	05-Nov-10	45d
1D-14V-SP2-531	Traffic Signal Ducts	4d	05-Nov-10	11-Nov-10	45d
1D-14V-SP2-529	Traction Ducts & Chambers	10d	24-Nov-10	17-Jan-11	26d
1D-14V-SP2-720	Comms Ducts & Chambers	0d	24-Nov-10		36d
1D-14V-SP2-532	Lighting Ducts	2d	17-Jan-11	19-Jan-11	43d
Pavement Construction over tracks		6d	21-Feb-11	01-Mar-11	14d
1D-14V-SP2-553	124mm Binder	1d	21-Feb-11	22-Feb-11	14d
1D-14V-SP2-554	35mm Wearing Course	1d	22-Feb-11	23-Feb-11	14d
1D-14V-SP2-555	15mm Surface Treatment	1d	28-Feb-11	01-Mar-11	14d
Phase SP2 Carriageway Construction		57d	24-Nov-10	28-Feb-11	15d
1D-14V-SP2-557	Sub-base 220mm all carriageway areas	4d	24-Nov-10	30-Nov-10	21d
1D-14V-SP2-558	Kerbing - Eastbound/Islands/Crossings	6d	30-Nov-10	17-Jan-11	21d
1D-14V-SP2-810	Signs / Street Furniture	5d	11-Jan-11	18-Jan-11	21d
1D-14V-SP2-559	Gullies	1d	17-Jan-11	18-Jan-11	21d
1D-14V-SP2-561	Sub-base shape all carriageway areas	1d	17-Jan-11	18-Jan-11	21d
1D-14V-SP2-562	Traffic Signals	0d	17-Jan-11		26d
1D-14V-SP2-563	Footpath Works	6d	17-Jan-11	25-Jan-11	39d
1D-14V-SP2-564	225mm Base	4d	18-Jan-11	24-Jan-11	21d
1D-14V-SP2-565	60mm Binder	2d	23-Feb-11	25-Feb-11	14d
1D-14V-SP2-566	35mm Wearing Course	1d	25-Feb-11	28-Feb-11	14d
Haymarket Ch.131,250 - 131,050		344d	16-Sep-10	16-Feb-12	59d
Phase H1 - Main Area - Eastbound Side		119d	16-Sep-10	17-Mar-11	149d
1D-14CD-H1-661	Erect Pedestrian Barrier	2d	16-Sep-10	20-Sep-10	10d
1D-14CD-H1-662	Site Clearance & Site Compound	1d	17-Sep-10	20-Sep-10	80d
1D-14CD-H1-663	Plane Main Carriageway Area - south of access lane over vo...	2d	20-Sep-10	22-Sep-10	10d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0087

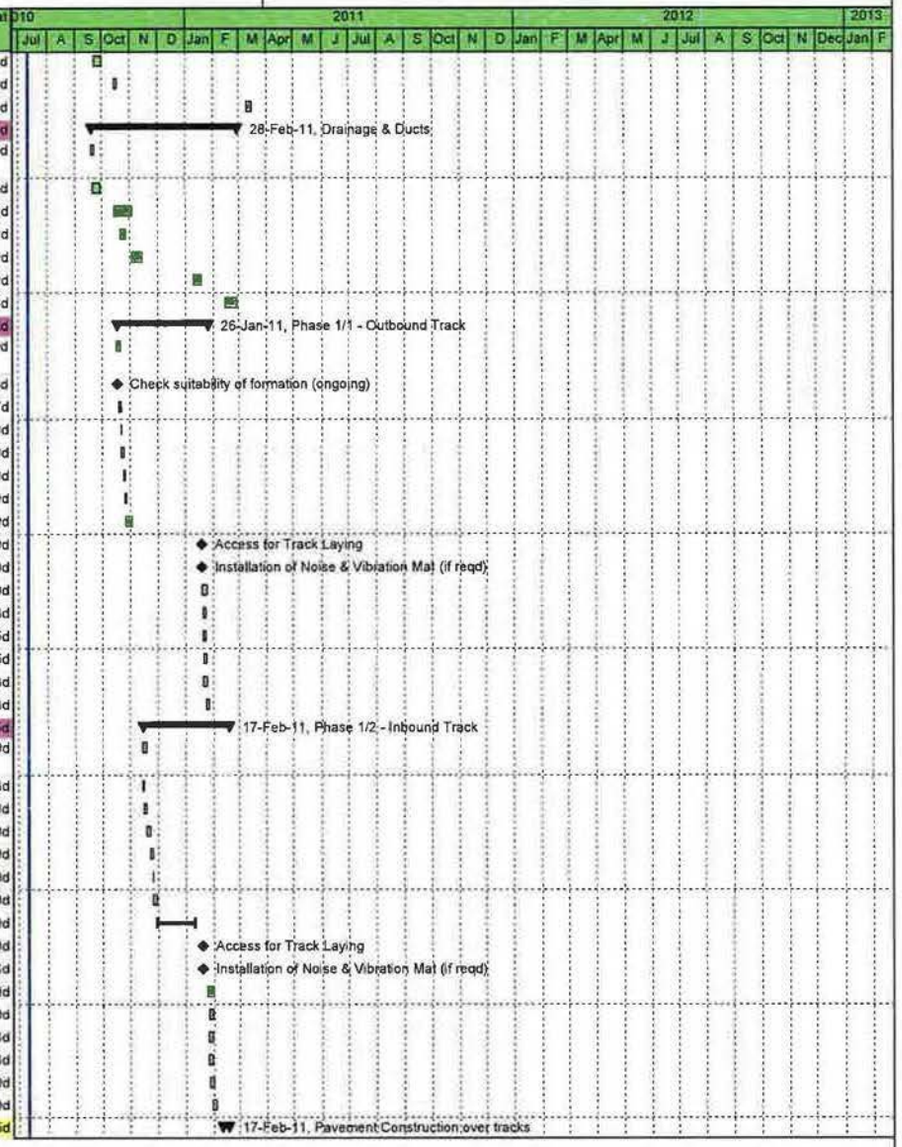
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14CD-H1-880	Core/Cast OLE Pole Foundations	7d	22-Sep-10	01-Oct-10	78d
1D-14CD-H1-671	Plane out existing surfacing over remainder of Phase 1	2d	14-Oct-10	18-Oct-10	10d
1D-14CD-H1-678	Mill Rail Joint / Sealing Compound	4d	09-Mar-11	15-Mar-11	132d
Drainage & Ducts		104d	20-Sep-10	28-Feb-11	14d
1D-14CD-H1-603	Investigate services / outfall positions / inlet-outlet positions / levels	2d	20-Sep-10	22-Sep-10	27d
1D-14CD-H1-674	Outfall Connections	6d	21-Sep-10	29-Sep-10	27d
1D-14CD-H1-685	Drainage to Discharge Points	12d	14-Oct-10	03-Nov-10	12d
1D-14CD-H1-658	Traffic Signal Ducts	4d	21-Oct-10	27-Oct-10	69d
1D-14CD-H1-666	Traction Ducts & Chambers	8d	03-Nov-10	15-Nov-10	10d
1D-14CD-H1-657	Comms Ducts & Chambers	6d	11-Jan-11	19-Jan-11	10d
1D-14CD-H1-649	Lighting Ducts	9d	15-Feb-11	28-Feb-11	14d
Phase 1/1 - Outbound Track		61d	18-Oct-10	26-Jan-11	172d
1D-14C-H1-902	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	3d	18-Oct-10	21-Oct-10	10d
1D-14C-H1-913	Check suitability of formation (ongoing)	0d	18-Oct-10		13d
1D-14C-H1-924	Capping Layer to Adjacent Carriageway (600mm)	2d	19-Oct-10	21-Oct-10	17d
1D-14C-H1-945	Make good Formation with Type 1 (Ave 220mm)	1d	21-Oct-10	22-Oct-10	10d
1D-14C-H1-926	Installation of IMU Drains and Cable Ducting	1d	22-Oct-10	25-Oct-10	10d
1D-14C-H1-927	Carry out inspection and testing of Subgrade	1d	25-Oct-10	26-Oct-10	10d
1D-14C-H1-938	Blinding Concrete	1d	26-Oct-10	27-Oct-10	10d
1D-14C-H1-919	Place RC Improvement Slab (+ cure lag)	3d	27-Oct-10	03-Nov-10	10d
1D-14C-H1-1110	Access for Track Laying	0d	19-Jan-11		10d
1D-14C-H1-941	Installation of Noise & Vibration Mat (if reqd)	0d	19-Jan-11		10d
1D-14C-TRCK-70(3)	Set staggered track (1x54m)(sleepers/rail)	4d	19-Jan-11	25-Jan-11	10d
1D-14C-H1-923	Welding & Grinding	2d	20-Jan-11	24-Jan-11	153d
1D-14C-H1-934	Drainage / Rail Connections	2d	20-Jan-11	24-Jan-11	155d
1D-14C-H1-955	Installation of IMU Boxes and Loops	2d	20-Jan-11	24-Jan-11	155d
1D-14C-H1-936	Final Rail Alignment - Check and Approve	2d	21-Jan-11	25-Jan-11	153d
1D-14C-H1-937	230mm Concrete Supporting Layer (incl cure lag)	2d	24-Jan-11	26-Jan-11	153d
Phase 1/2 - Inbound Track		57d	15-Nov-10	17-Feb-11	165d
1D-14D-H1-889	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	4d	15-Nov-10	19-Nov-10	10d
1D-14D-H1-1080	Check suitability of formation (ongoing)	1d	15-Nov-10	16-Nov-10	13d
1D-14D-H1-901	Capping Layer to Adjacent Carriageway (600mm)	3d	16-Nov-10	19-Nov-10	19d
1D-14D-H1-872	Make good Formation with Type 1 (Ave 220mm)	2d	19-Nov-10	23-Nov-10	10d
1D-14D-H1-883	Installation of IMU Drains and Cable Ducting	2d	23-Nov-10	25-Nov-10	10d
1D-14D-H1-894	Carry out inspection and testing of Subgrade	1d	25-Nov-10	26-Nov-10	10d
1D-14D-H1-925	Blinding Concrete	2d	26-Nov-10	30-Nov-10	10d
1D-14D-H1-906	Place RC Improvement Slab (+ cure lag)	3d	29-Nov-10	11-Jan-11	10d
1D-14D-H1-897	Access for Track Laying	0d	19-Jan-11		10d
1D-14D-H1-918	Installation of Noise & Vibration Mat (if reqd)	0d	19-Jan-11		14d
1D-14D-TRCK-70(3)	Set track (1x108m)(sleepers/rail)	5d	25-Jan-11	01-Feb-11	10d
1D-14D-H1-1090	Welding & Grinding	3d	26-Jan-11	31-Jan-11	10d
1D-14D-H1-911	Drainage/Rail Connections	3d	26-Jan-11	31-Jan-11	14d
1D-14D-H1-882	Installation of IMU Boxes and Loops	3d	26-Jan-11	31-Jan-11	14d
1D-14D-H1-893	Final Rail Alignment - Check and Approve	3d	27-Jan-11	01-Feb-11	10d
1D-14D-H1-904	230mm Concrete Supporting Layer (incl cure lag)	4d	31-Jan-11	04-Feb-11	10d
Pavement Construction over tracks		4d	11-Feb-11	17-Feb-11	165d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0088

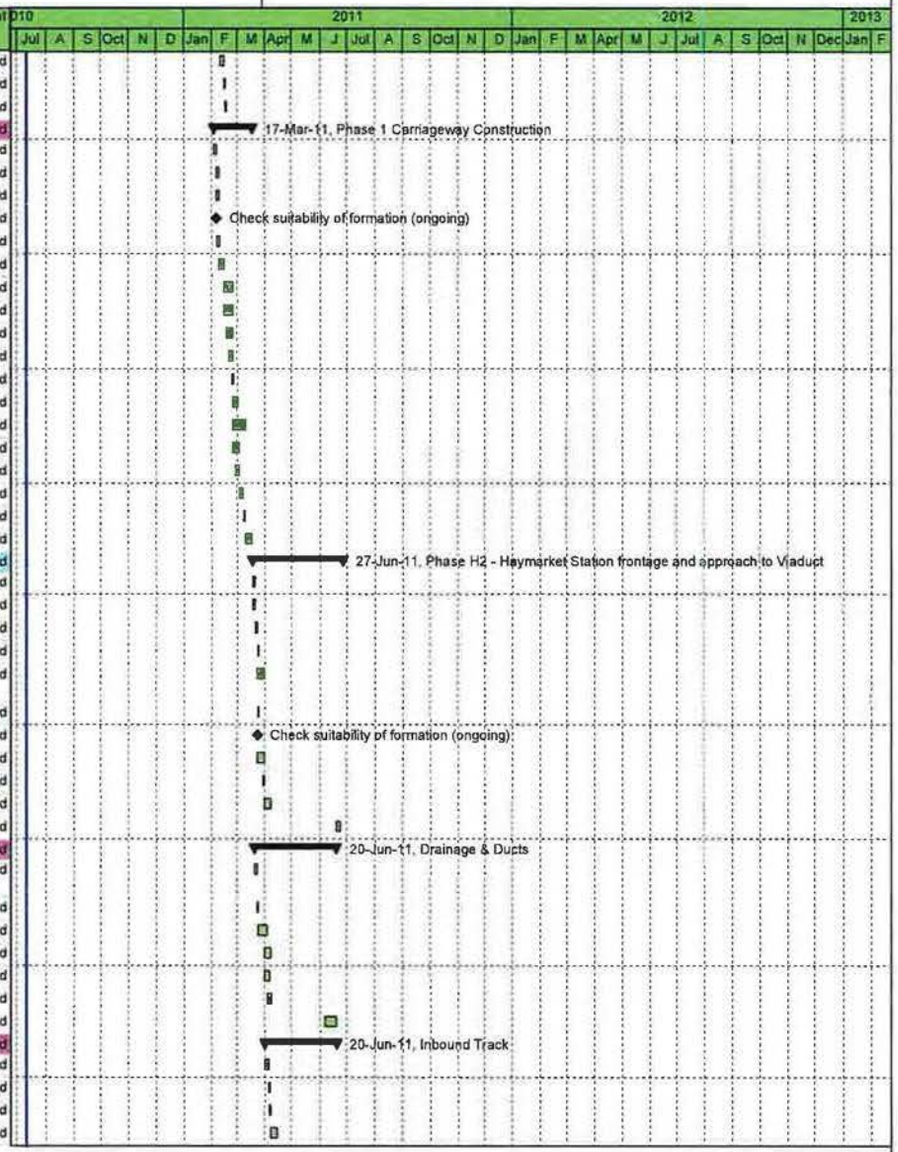
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14CD-H1-736	124mm Binder	2d	11-Feb-11	15-Feb-11	146d
1D-14CD-H1-717	35mm Wearing Course	1d	15-Feb-11	16-Feb-11	146d
1D-14CD-H1-718	15mm Surface Treatment	1d	16-Feb-11	17-Feb-11	146d
Phase 1 Carriageway Construction		29d	04-Feb-11	17-Mar-11	10d
1D-14CD-H1-910	Plane Access Area - Eastbound Lane	1d	04-Feb-11	07-Feb-11	10d
1D-14CD-H1-701	Excavate Eastbound Lane to Formation (incl for Capping)	2d	07-Feb-11	09-Feb-11	10d
1D-14CD-H1-692	Remove existing kerbs	2d	07-Feb-11	09-Feb-11	19d
1D-14CD-H1-693	Check suitability of formation (ongoing)	0d	07-Feb-11		10d
1D-14CD-H1-724	Capping Layer to Eastbound Carriageway (600mm)	2d	07-Feb-11	09-Feb-11	10d
1D-14CD-H1-735	Sub-base 220mm all carriageway areas	4d	09-Feb-11	15-Feb-11	10d
1D-14CD-H1-716	Kerbing K7 - Eastbound/Islands/Crossings	7d	15-Feb-11	24-Feb-11	11d
1D-14CD-H1-697	Kerbing K11	8d	15-Feb-11	25-Feb-11	10d
1D-14CD-H1-920	Signs / Street Furniture	5d	17-Feb-11	24-Feb-11	12d
1D-14CD-H1-711	Sub-base shape all carriageway areas	4d	21-Feb-11	25-Feb-11	11d
1D-14CD-H1-699	Gullies	2d	23-Feb-11	25-Feb-11	11d
1D-14CD-H1-702	Traffic Signals	4d	24-Feb-11	02-Mar-11	13d
1D-14CD-H1-708	Setted Areas	9d	25-Feb-11	10-Mar-11	10d
1D-14CD-H1-734	225mm Base	5d	25-Feb-11	04-Mar-11	11d
1D-14CD-H1-703	Footpath Works	4d	28-Feb-11	04-Mar-11	14d
1D-14CD-H1-745	60mm Binder	2d	04-Mar-11	08-Mar-11	11d
1D-14CD-H1-726	35mm Wearing Course	1d	08-Mar-11	09-Mar-11	11d
1D-14CD-H1-707	Road Signs and Markings	5d	10-Mar-11	17-Mar-11	10d
Phase H2 - Haymarket Station frontage and approach to Viaduct		69d	17-Mar-11	27-Jun-11	168d
1D-14G-H2-900	Erect Pedestrian Barrier	2d	17-Mar-11	21-Mar-11	130d
1D-14G-H2-691	Site Clearance	2d	17-Mar-11	21-Mar-11	130d
1D-14G-H2-672	Plane Main Carriageway 250mm	2d	21-Mar-11	23-Mar-11	130d
1D-14G-H2-673	Plane Haymarket Station frontage	1d	23-Mar-11	24-Mar-11	164d
1D-14G-H2-683	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	6d	23-Mar-11	31-Mar-11	130d
1D-14G-H2-714	Remove existing kerbs	2d	23-Mar-11	25-Mar-11	133d
1D-14G-H2-725	Check suitability of formation (ongoing)	0d	23-Mar-11		135d
1D-14G-H2-706	Capping Layer to Adjacent Carriageway (600mm)	6d	23-Mar-11	31-Mar-11	137d
1D-14G-H2-687	Make good Formation with Type 1 (Ave 220mm)	1d	30-Mar-11	31-Mar-11	130d
1D-14G-H2-682	Core/Cast OLE Pole Foundations	5d	31-Mar-11	08-Apr-11	158d
1D-14G-H2-698	Mill Rail Joint / Sealing Compound	4d	20-Jun-11	24-Jun-11	131d
Drainage & Ducts		62d	21-Mar-11	20-Jun-11	168d
1D-14G-H2-715	Investigate services / outfall positions / inlet-outlet positions / levels	2d	21-Mar-11	23-Mar-11	164d
1D-14G-H2-696	Outfall Connections	2d	23-Mar-11	25-Mar-11	173d
1D-14G-H2-677	Drainage to Discharge Points	5d	25-Mar-11	04-Apr-11	173d
1D-14G-H2-688	Traction Ducts & Chambers	5d	31-Mar-11	08-Apr-11	137d
1D-14G-H2-669	Comms Ducts & Chambers	3d	31-Mar-11	06-Apr-11	139d
1D-14G-H2-890	Traffic Signal Ducts	4d	04-Apr-11	08-Apr-11	173d
1D-14G-H2-681	Lighting Ducts	9d	07-Jun-11	20-Jun-11	130d
Inbound Track		54d	31-Mar-11	20-Jun-11	169d
1D-14G-H2-949	Installation of IMU Drains and Cable Ducting	2d	31-Mar-11	05-Apr-11	130d
1D-14G-H2-1140	Carry out inspection and testing of Subgrade	1d	05-Apr-11	06-Apr-11	130d
1D-14G-H2-981	Blinding Concrete	2d	06-Apr-11	08-Apr-11	130d
1D-14G-H2-942	Place RC Improvement Slab (+ cure lag)	6d	07-Apr-11	15-Apr-11	130d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0089

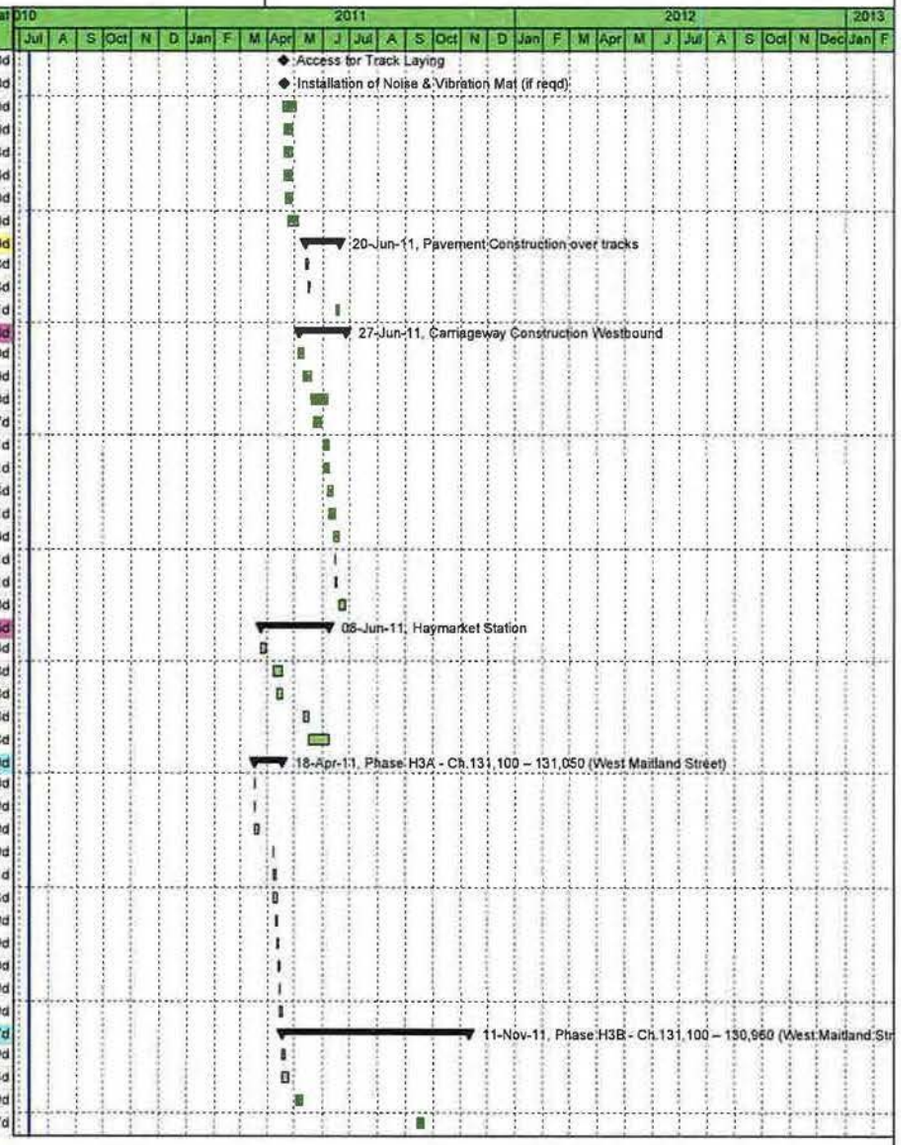
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14G-H2-963	Access for Track Laying	0d	19-Apr-11		130d
1D-14G-H2-974	Installation of Noise & Vibration Mat (if reqd)	0d	19-Apr-11		130d
1D-14G-TRCK-70(3)	Set track (1x72m + 1x126)(sleepers/rail) + mob	9d	19-Apr-11	03-May-11	130d
1D-14G-H2-966	Welding & Grinding	6d	20-Apr-11	28-Apr-11	130d
1D-14G-H2-947	Drainage/Rail Connections	6d	20-Apr-11	28-Apr-11	134d
1D-14G-H2-968	Installation of IMU Boxes and Loops	6d	20-Apr-11	28-Apr-11	134d
1D-14G-H2-959	Final Rail Alignment - Check and Approve	6d	21-Apr-11	29-Apr-11	130d
1D-14G-H2-1150	230mm Concrete Supporting Layer (incl cure lag)	7d	25-Apr-11	05-May-11	130d
Pavement Construction over tracks		**26d**	**12-May-11**	**20-Jun-11**	**169d**
1D-14G-H2-932	124mm Binder	2d	12-May-11	16-May-11	153d
1D-14G-H2-953	35mm Wearing Course	1d	16-May-11	17-May-11	153d
1D-14G-H2-964	15mm Surface Treatment	1d	17-Jun-11	20-Jun-11	131d
Carriageway Construction Westbound		**36d**	**05-May-11**	**27-Jun-11**	**168d**
1D-14G-H2-986	Sub-base 220mm all carriageway areas	4d	05-May-11	11-May-11	130d
1D-14G-H2-967	Strengthened Kerb (ULE90130-01-HRL-01135)	6d	11-May-11	19-May-11	130d
1D-14G-H2-988	Kerbing K7 - Westbound/Islands/Crossings	12d	19-May-11	07-Jun-11	130d
1D-14G-H2-1170	Signs / Street Furniture	5d	23-May-11	31-May-11	137d
1D-14G-H2-979	Gullies	4d	02-Jun-11	08-Jun-11	131d
1D-14G-H2-1001	Sub-base shape all carriageway areas	4d	02-Jun-11	08-Jun-11	131d
1D-14G-H2-962	Traffic Signals	4d	07-Jun-11	13-Jun-11	133d
1D-14G-H2-994	225mm Base	5d	08-Jun-11	15-Jun-11	131d
1D-14G-H2-983	Footpath Works	4d	14-Jun-11	20-Jun-11	130d
1D-14G-H2-1025	60mm Binder	1d	15-Jun-11	16-Jun-11	131d
1D-14G-H2-996	35mm Wearing Course	1d	16-Jun-11	17-Jun-11	131d
1D-14G-H2-977	Road Signs and Markings	5d	20-Jun-11	27-Jun-11	130d
Haymarket Station		**51d**	**24-Mar-11**	**08-Jun-11**	**176d**
1D-14G-H2-1160	Excavation	4d	24-Mar-11	30-Mar-11	164d
1D-14G-H2-991	Kerbing K7	6d	08-Apr-11	18-Apr-11	158d
1D-14G-H2-973	Footpath Works / Finishes	4d	12-Apr-11	18-Apr-11	158d
1D-14G-H2-952	Kerbing K11	4d	11-May-11	17-May-11	138d
1D-14G-H2-984	Setted Areas	15d	17-May-11	08-Jun-11	138d
Phase H3A - Ch.131,100 – 131,050 (West Maitland Street)		**21d**	**17-Mar-11**	**18-Apr-11**	**10d**
1D-14MN-H3A-976	Erect Pedestrian Barrier	1d	17-Mar-11	18-Mar-11	10d
1D-14MN-H3A-957	Site Clearance	1d	17-Mar-11	18-Mar-11	10d
1D-14MN-H3A-978	Plane Main Carriageway 250mm - Eastbound side over voids	2d	18-Mar-11	22-Mar-11	10d
1D-14MN-H3A-346	Kerbing	1d	07-Apr-11	08-Apr-11	10d
1D-14MN-H3A-348	Sub-base shape all carriageway areas	1d	08-Apr-11	11-Apr-11	11d
1D-14MN-H3A-349	Footpath Works	2d	08-Apr-11	12-Apr-11	13d
1D-14MN-H3A-347	Signs / Street Furniture	1d	11-Apr-11	12-Apr-11	10d
1D-14MN-H3A-490	225mm Base	1d	12-Apr-11	13-Apr-11	10d
1D-14MN-H3A-361	60mm Binder	1d	13-Apr-11	14-Apr-11	10d
1D-14MN-H3A-352	35mm Wearing Course	1d	14-Apr-11	15-Apr-11	10d
1D-14MN-H3A-343	Road Signs and Markings	1d	15-Apr-11	18-Apr-11	10d
Phase H3B - Ch.131,100 – 130,960 (West Maitland Street)		**146d**	**18-Apr-11**	**11-Nov-11**	**77d**
1D-14MN-H3B-695	Erect Pedestrian Barrier	2d	18-Apr-11	20-Apr-11	10d
1D-14MN-H3B-676	Site Clearance	5d	18-Apr-11	25-Apr-11	13d
1D-14MN-H3B-705	Core/Cast OLE Pole Foundations	5d	03-May-11	10-May-11	10d
1D-14MN-H3B-686	OLE Wall Fixings	4d	15-Sep-11	21-Sep-11	87d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0090

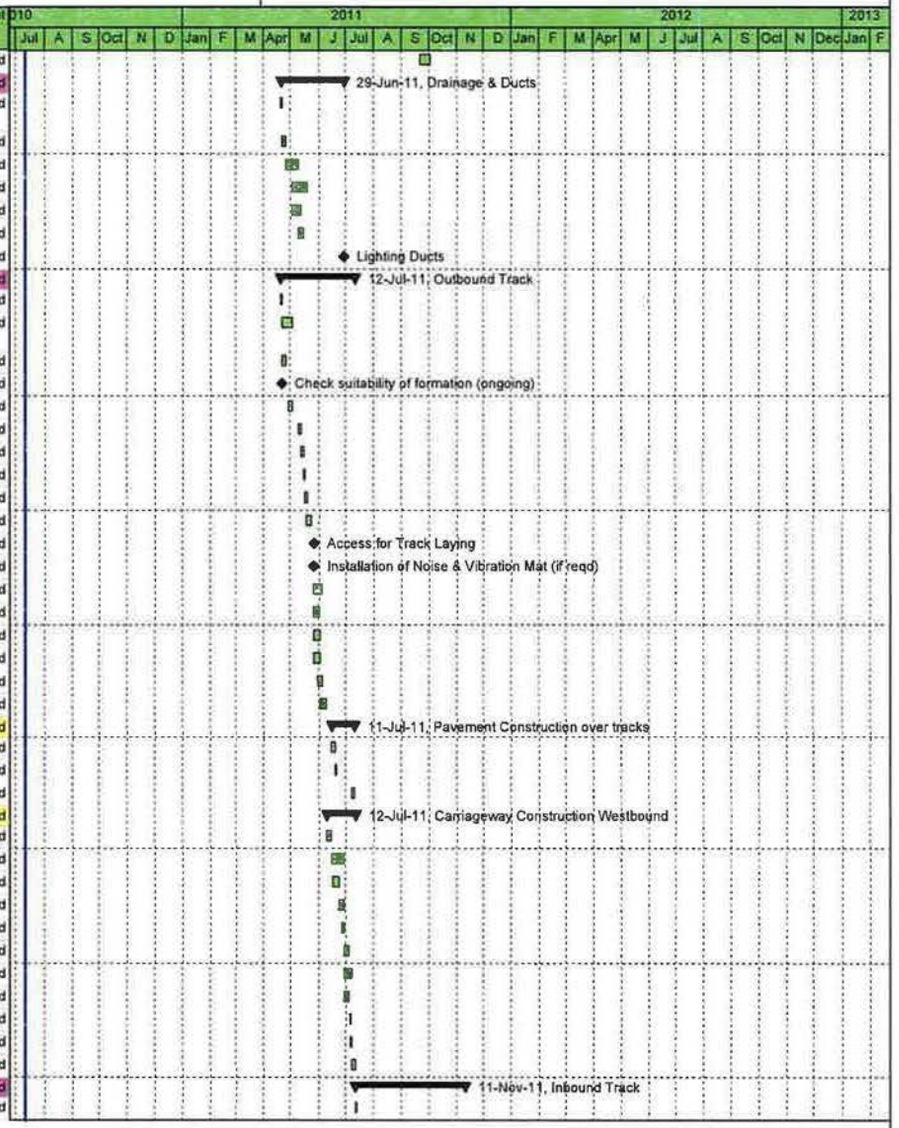
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14J-JNCS-60	installation of traffic light control - Junction 46	8d	21-Sep-11	03-Oct-11	106d
Drainage & Ducts		48d	20-Apr-11	29-Jun-11	173d
1D-14MN-H3B-668	Investigate services / outfall positions / inlet-outlet positions / levels	2d	20-Apr-11	22-Apr-11	16d
1D-14MN-H3B-659	Outfall Connections	2d	22-Apr-11	26-Apr-11	41d
1D-14MN-H3B-860	Drainage to Discharge Points	9d	26-Apr-11	10-May-11	41d
1D-14MN-H3B-651	Traction Ducts & Chambers	12d	03-May-11	19-May-11	15d
1D-14MN-H3B-652	Comms Ducts & Chambers	8d	03-May-11	13-May-11	167d
1D-14MN-H3B-653	Traffic Signal Ducts	4d	10-May-11	16-May-11	41d
1D-14MN-H3B-684	Lighting Ducts	0d	29-Jun-11		17d
Outbound Track		57d	20-Apr-11	12-Jul-11	91d
1D-14M-H3B-778	Plane Main Carriageway 250mm	2d	20-Apr-11	22-Apr-11	10d
1D-14M-H3B-749	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	6d	22-Apr-11	03-May-11	10d
1D-14M-H3B-950	Remove existing kerbs	2d	22-Apr-11	26-Apr-11	19d
1D-14M-H3B-761	Check suitability of formation (ongoing)	0d	22-Apr-11		14d
1D-14M-H3B-742	Capping Layer to Adjacent Carriageway (600mm)	2d	28-Apr-11	03-May-11	10d
1D-14M-H3B-743	Make good Formation with Type 1 (Ave 220mm)	2d	10-May-11	12-May-11	10d
1D-14M-H3B-794	Installation of IMU Drains and Cable Ducting	2d	12-May-11	16-May-11	10d
1D-14M-H3B-825	Carry out inspection and testing of Subgrade	1d	16-May-11	17-May-11	10d
1D-14M-H3B-806	Blinding Concrete	2d	17-May-11	19-May-11	10d
1D-14M-H3B-777	Place RC Improvement Slab (+ cure lag)	4d	18-May-11	24-May-11	10d
1D-14M-H3B-788	Access for Track Laying	0d	26-May-11		10d
1D-14M-H3B-759	Installation of Noise & Vibration Mat (if reqd)	0d	26-May-11		10d
1D-14M-TRCK-70(3)	Set track (1x144m)(sleepers/rail)	6d	26-May-11	06-Jun-11	10d
1D-14M-H3B-781	Welding & Grinding	4d	27-May-11	03-Jun-11	10d
1D-14M-H3B-752	Drainage/Rail Connections	4d	27-May-11	03-Jun-11	14d
1D-14M-H3B-753	Installation of IMU Boxes and Loops	4d	27-May-11	03-Jun-11	14d
1D-14M-H3B-804	Final Rail Alignment - Check and Approve	4d	31-May-11	06-Jun-11	10d
1D-14M-H3B-835	230mm Concrete Supporting Layer (incl cure lag)	5d	02-Jun-11	09-Jun-11	10d
Pavement Construction over tracks		17d	16-Jun-11	11-Jul-11	92d
1D-14M-H3B-747	124mm Binder	2d	16-Jun-11	20-Jun-11	83d
1D-14M-H3B-758	35mm Wearing Course	1d	20-Jun-11	21-Jun-11	83d
1D-14M-H3B-739	15mm Surface Treatment	1d	08-Jul-11	11-Jul-11	70d
Carriageway Construction Westbound		23d	09-Jun-11	12-Jul-11	10d
1D-14M-H3B-371	Sub-base 220mm all carriageway areas	4d	09-Jun-11	15-Jun-11	10d
1D-14M-H3B-372	Kerbing K7 - Westbound/Islands/Crossings	10d	15-Jun-11	29-Jun-11	10d
1D-14M-H3B-374	Signs / Street Furniture	5d	17-Jun-11	24-Jun-11	14d
1D-14M-H3B-425	Sub-base shape all carriageway areas	4d	24-Jun-11	30-Jun-11	10d
1D-14M-H3B-363	Gullies	3d	27-Jun-11	30-Jun-11	10d
1D-14M-H3B-376	Traffic Signals	4d	29-Jun-11	05-Jul-11	10d
1D-14M-H3B-367	Footpath Works	7d	29-Jun-11	08-Jul-11	10d
1D-14M-H3B-368	225mm Base	3d	30-Jun-11	05-Jul-11	10d
1D-14M-H3B-359	60mm Binder	2d	05-Jul-11	07-Jul-11	10d
1D-14M-H3B-550	35mm Wearing Course	1d	07-Jul-11	08-Jul-11	10d
1D-14M-H3B-381	Road Signs and Markings	2d	08-Jul-11	12-Jul-11	10d
Inbound Track		87d	12-Jul-11	11-Nov-11	77d
1D-14N-H3B-373	Plane Main Carriageway 250mm	2d	12-Jul-11	14-Jul-11	10d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0091

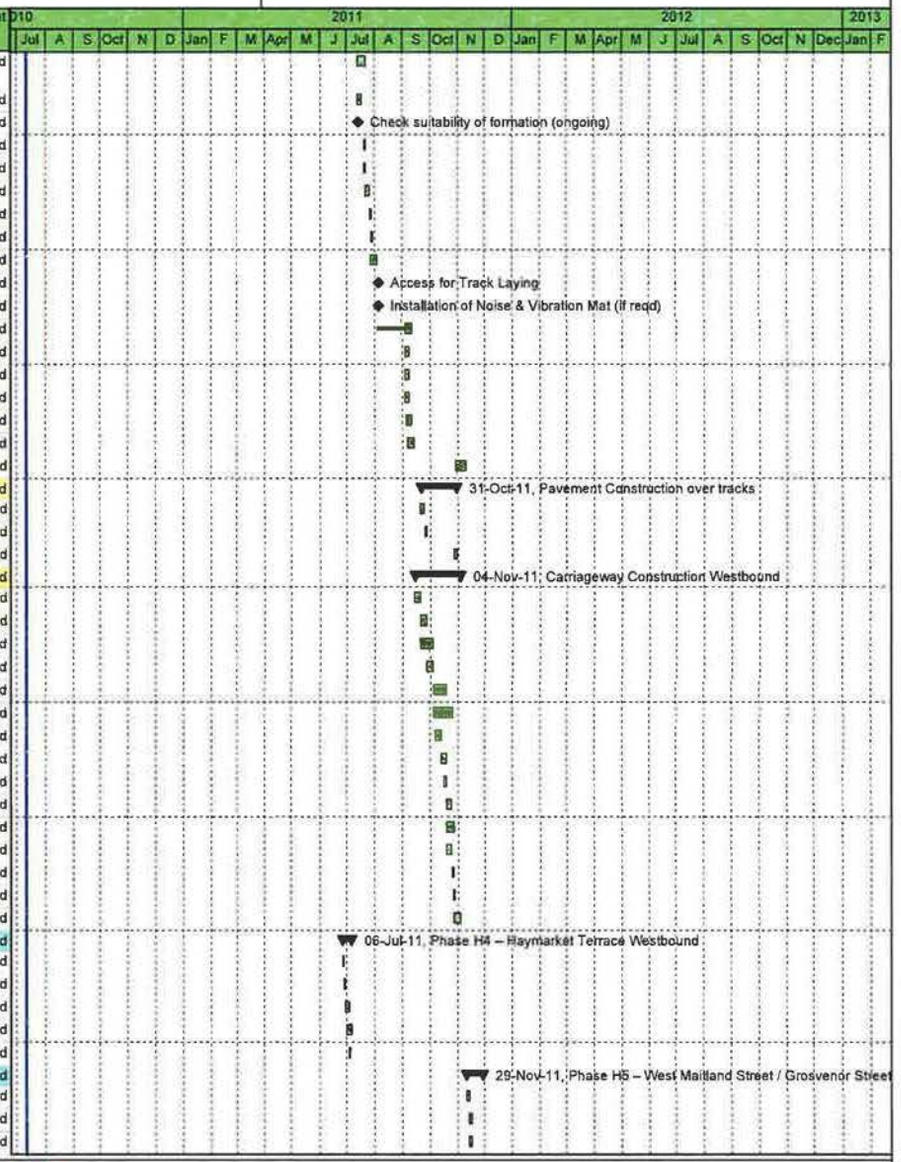
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14N-H3B-434	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	6d	14-Jul-11	22-Jul-11	10d
1D-14N-H3B-485	Remove existing kerbs	2d	14-Jul-11	18-Jul-11	12d
1D-14N-H3B-426	Check suitability of formation (ongoing)	0d	14-Jul-11		14d
1D-14N-H3B-377	Capping Layer to Adjacent Carriageway (600mm)	2d	20-Jul-11	22-Jul-11	29d
1D-14N-H3B-378	Make good Formation with Type 1 (Ave 220mm)	2d	20-Jul-11	22-Jul-11	10d
1D-14N-H3B-369	Installation of IMU Drains and Cable Ducting	2d	22-Jul-11	26-Jul-11	10d
1D-14N-H3B-660	Carry out inspection and testing of Subgrade	1d	26-Jul-11	27-Jul-11	10d
1D-14N-H3B-431	Blinding Concrete	2d	27-Jul-11	29-Jul-11	10d
1D-14N-H3B-472	Place RC Improvement Slab (+ cure lag)	4d	28-Jul-11	03-Aug-11	10d
1D-14N-H3B-433	Access for Track Laying	0d	05-Aug-11		10d
1D-14N-H3B-474	Installation of Noise & Vibration Mat (if reqd)	0d	05-Aug-11		10d
1D-14N-TRCK-70(3)	Set track (1x144m)(sleepers/rail) + mob	6d	05-Aug-11	12-Sep-11	10d
1D-14N-H3B-476	Welding & Grinding	4d	05-Sep-11	09-Sep-11	10d
1D-14N-H3B-427	Drainage/Rail Connections	4d	05-Sep-11	09-Sep-11	14d
1D-14N-H3B-428	Installation of IMU Boxes and Loops	4d	05-Sep-11	09-Sep-11	14d
1D-14N-H3B-379	Final Rail Alignment - Check and Approve	4d	06-Sep-11	12-Sep-11	10d
1D-14N-H3B-670	230mm Concrete Supporting Layer (incl cure lag)	5d	08-Sep-11	15-Sep-11	10d
1D-14N-H3B-471	Mill Rail Joint / Sealing Compound	6d	31-Oct-11	11-Nov-11	10d
Pavement Construction over tracks		**27d**	**22-Sep-11**	**31-Oct-11**	**13d**
1D-14N-H3B-382	124mm Binder	2d	22-Sep-11	26-Sep-11	33d
1D-14N-H3B-383	35mm Wearing Course	1d	26-Sep-11	27-Sep-11	33d
1D-14N-H3B-384	15mm Surface Treatment	1d	28-Oct-11	31-Oct-11	10d
Carriageway Construction Westbound		**36d**	**15-Sep-11**	**04-Nov-11**	**82d**
1D-14N-H3B-386	Sub-base 220mm all carriageway areas	4d	15-Sep-11	21-Sep-11	10d
1D-14N-H3B-387	Drainage	5d	21-Sep-11	28-Sep-11	10d
1D-14N-H3B-520	Kerbing K11	11d	21-Sep-11	06-Oct-11	69d
1D-14N-H3B-388	Memorial Island	5d	28-Sep-11	05-Oct-11	10d
1D-14N-H3B-389	Kerbing K7 - Westbound/Islands/Crossings	10d	05-Oct-11	19-Oct-11	10d
1D-14N-H3B-392	Setted Areas	15d	06-Oct-11	27-Oct-11	69d
1D-14N-H3B-393	Signs / Street Furniture	5d	07-Oct-11	14-Oct-11	14d
1D-14N-H3B-394	Sub-base shape all carriageway areas	4d	14-Oct-11	20-Oct-11	10d
1D-14N-H3B-391	Gullies	3d	17-Oct-11	20-Oct-11	10d
1D-14N-H3B-395	Traffic Signals	4d	19-Oct-11	25-Oct-11	10d
1D-14N-H3B-396	Footpath Works	7d	19-Oct-11	28-Oct-11	66d
1D-14N-H3B-397	225mm Base	3d	20-Oct-11	25-Oct-11	10d
1D-14N-H3B-398	60mm Binder	2d	25-Oct-11	27-Oct-11	10d
1D-14N-H3B-399	35mm Wearing Course	1d	27-Oct-11	28-Oct-11	10d
1D-14N-H3B-530	Road Signs and Markings	2d	28-Oct-11	04-Nov-11	66d
Phase H4 – Haymarket Terrace Westbound		**7d**	**27-Jun-11**	**06-Jul-11**	**168d**
1D-14-H4-403	Erect Barrier	1d	27-Jun-11	28-Jun-11	130d
1D-14-H4-404	Site Clearance	2d	28-Jun-11	30-Jun-11	130d
1D-14-H4-415	Plane Main Carriageway for Overlay	2d	30-Jun-11	04-Jul-11	130d
1D-14-H4-407	Road Signals and Markings	3d	01-Jul-11	06-Jul-11	130d
1D-14-H4-406	35mm Surface Course	1d	04-Jul-11	05-Jul-11	130d
Phase H5 – West Maitland Street / Grosvenor Street		**11d**	**11-Nov-11**	**29-Nov-11**	**78d**
1D-14-H5-409	Erect Barrier	1d	11-Nov-11	14-Nov-11	61d
1D-14-H5-560	Site Clearance	2d	14-Nov-11	16-Nov-11	61d
1D-14-H5-475	Excavation	2d	14-Nov-11	16-Nov-11	61d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0092

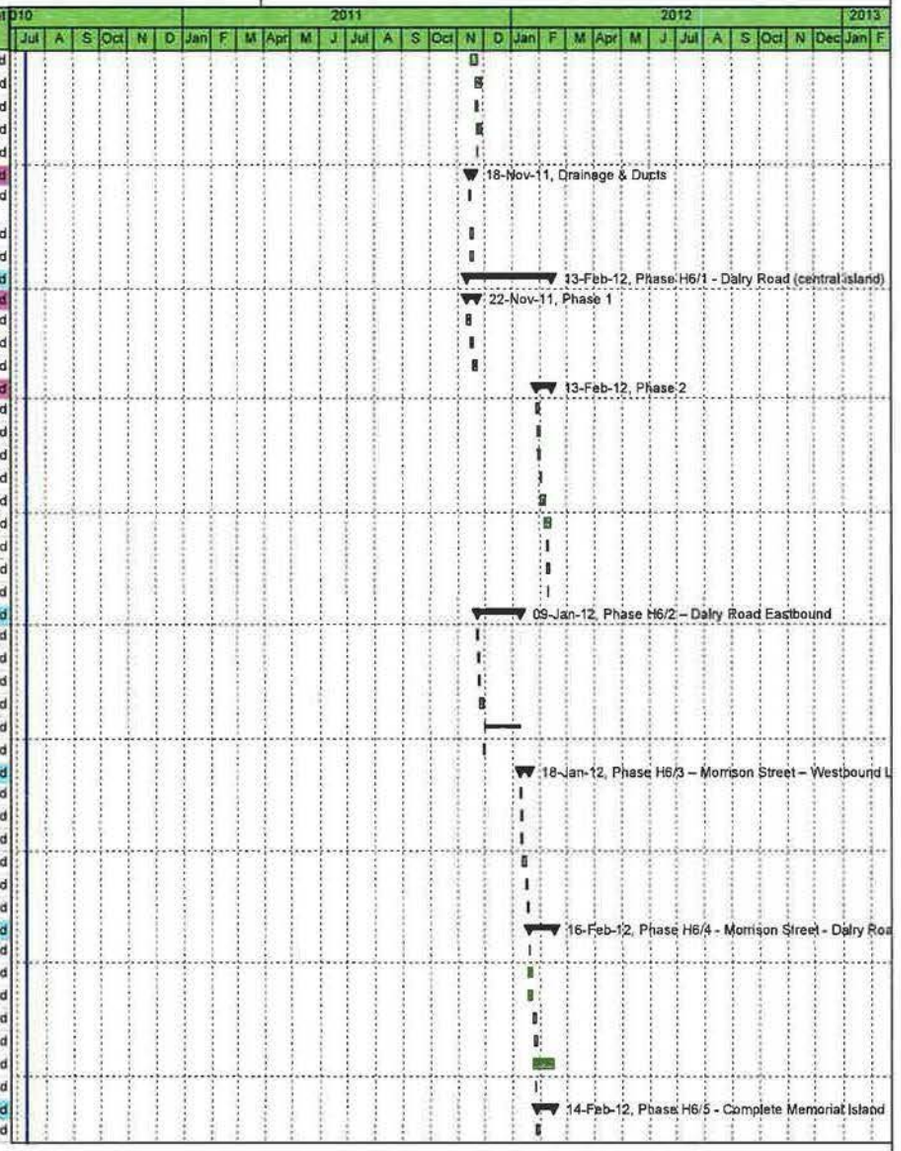
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14-H5-416	Kerbing	5d	16-Nov-11	23-Nov-11	61d
1D-14-H5-419	Signs / Street Furniture	5d	22-Nov-11	29-Nov-11	61d
1D-14-H5-600	Road Signals and Markings	3d	22-Nov-11	25-Nov-11	63d
1D-14-H5-417	Footpath Works / Finishes	4d	23-Nov-11	29-Nov-11	61d
1D-14-H5-418	35mm Surface Course	1d	23-Nov-11	24-Nov-11	63d
Drainage & Ducts		4d	14-Nov-11	18-Nov-11	84d
1D-14-H5-412	Investigate services / outfall positions / inlet-outlet positions / levels	1d	14-Nov-11	15-Nov-11	64d
1D-14-H5-413	Drainage to Discharge Points	3d	15-Nov-11	18-Nov-11	64d
1D-14-H5-414	Traffic Signal and Lighting Ducts	3d	15-Nov-11	18-Nov-11	68d
Phase H6/1 - Dalry Road (central island)		55d	11-Nov-11	13-Feb-12	62d
Phase 1		7d	11-Nov-11	22-Nov-11	75d
1D-14-H6/1-423	Erect Barrier for island site	2d	11-Nov-11	15-Nov-11	59d
1D-14-H6/1-424	Site Clearance	3d	15-Nov-11	18-Nov-11	59d
1D-14-H6/1-435	Excavate and fill island for TM	2d	18-Nov-11	22-Nov-11	59d
Phase 2		11d	27-Jan-12	13-Feb-12	62d
1D-14-H6/1-477	Erect Barrier for island site	1d	27-Jan-12	30-Jan-12	62d
1D-14-H6/1-468	Excavation	2d	30-Jan-12	01-Feb-12	62d
1D-14-H6/1-429	Traffic Signal and Lighting Ducts	3d	30-Jan-12	02-Feb-12	69d
1D-14-H6/1-680	Core and Cast OLE Pole Foundations (1nr)	2d	01-Feb-12	03-Feb-12	66d
1D-14-H6/1-481	Kerbing	4d	01-Feb-12	07-Feb-12	62d
1D-14-H6/1-482	Footpath Works / Finishes	5d	06-Feb-12	13-Feb-12	62d
1D-14-H6/1-473	Plane Main Carriageway for Overlay	1d	07-Feb-12	08-Feb-12	63d
1D-14-H6/1-505	Road Signals and Markings	3d	07-Feb-12	10-Feb-12	63d
1D-14-H6/1-484	35mm Surface Course	1d	08-Feb-12	09-Feb-12	63d
Phase H6/2 – Dalry Road Eastbound		23d	22-Nov-11	09-Jan-12	59d
1D-14-H6/2-437	Erect Barrier	1d	22-Nov-11	23-Nov-11	59d
1D-14-H6/2-438	Site Clearance	2d	23-Nov-11	25-Nov-11	59d
1D-14-H6/2-439	Traffic Signal and Lighting Ducts	2d	23-Nov-11	25-Nov-11	59d
1D-14-H6/2-650	Plane Main Carriageway for Overlay	2d	25-Nov-11	29-Nov-11	59d
1D-14-H6/2-442	Road Signals and Markings	3d	28-Nov-11	09-Jan-12	59d
1D-14-H6/2-441	35mm Surface Course	1d	29-Nov-11	30-Nov-11	59d
Phase H6/3 – Morrison Street – Westbound Lane		7d	09-Jan-12	18-Jan-12	59d
1D-14-H6/3-444	Erect Barrier	1d	09-Jan-12	10-Jan-12	59d
1D-14-H6/3-445	Site Clearance	2d	10-Jan-12	12-Jan-12	59d
1D-14-H6/3-446	Traffic Signal and Lighting Ducts	2d	10-Jan-12	12-Jan-12	59d
1D-14-H6/3-447	Plane Main Carriageway for Overlay	2d	12-Jan-12	16-Jan-12	59d
1D-14-H6/3-448	35mm Surface Course	1d	16-Jan-12	17-Jan-12	59d
1D-14-H6/3-449	Road Markings and Signs	1d	17-Jan-12	18-Jan-12	59d
Phase H6/4 - Morrison Street - Dalry Road		21d	18-Jan-12	16-Feb-12	59d
1D-14-H6/4-451	Erect Barrier	1d	18-Jan-12	19-Jan-12	59d
1D-14-H6/4-452	Site Clearance	2d	19-Jan-12	23-Jan-12	59d
1D-14-H6/4-453	Traffic Signal and Lighting Ducts	2d	19-Jan-12	23-Jan-12	59d
1D-14-H6/4-454	Plane Main Carriageway for Overlay	2d	23-Jan-12	25-Jan-12	59d
1D-14-H6/4-456	Road Signals and Markings	3d	24-Jan-12	27-Jan-12	59d
1D-15M-JNCS-60	installation of traffic light control - Junction 48	17d	24-Jan-12	16-Feb-12	59d
1D-14-H6/4-455	35mm Surface Course	1d	25-Jan-12	26-Jan-12	59d
Phase H6/5 - Complete Memorial Island		12d	27-Jan-12	14-Feb-12	61d
1D-14-H6/5-458	Erect Barrier	1d	27-Jan-12	30-Jan-12	61d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0093

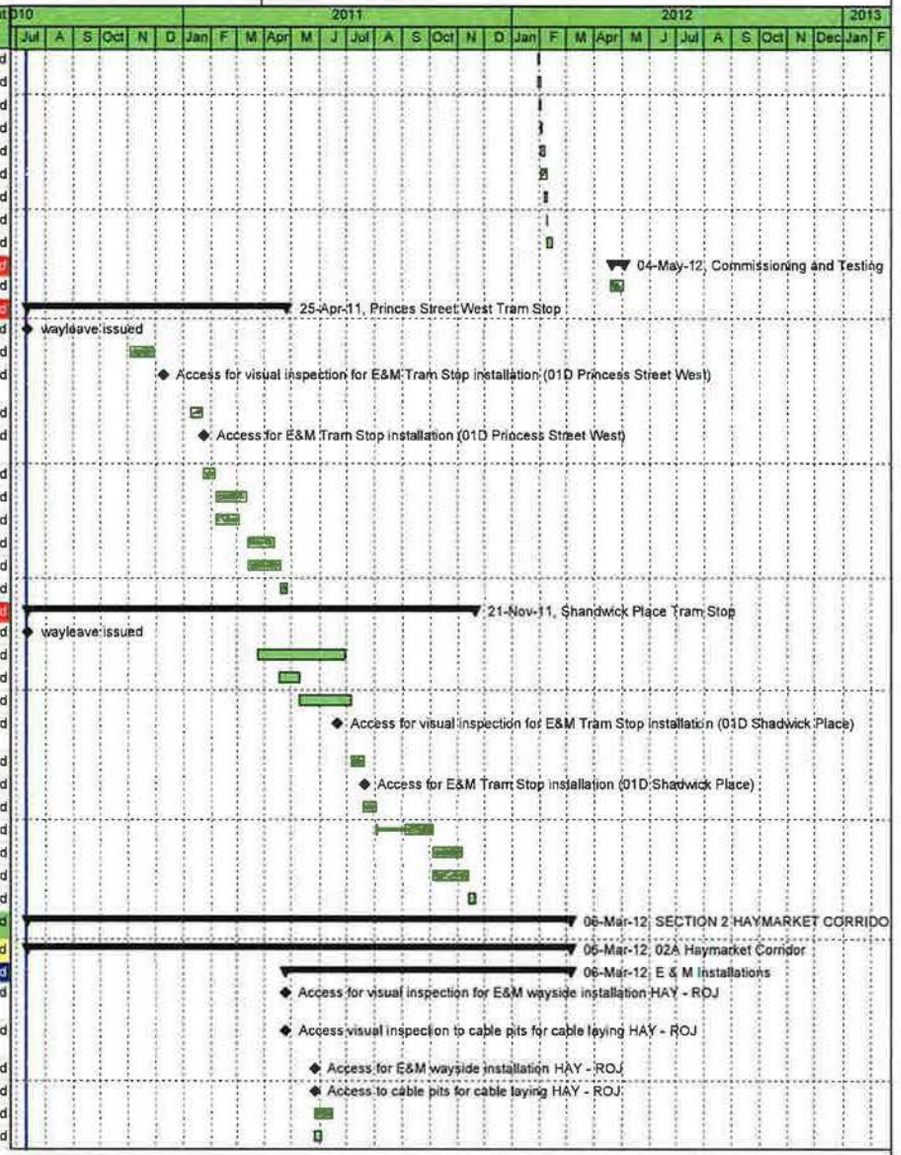
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
1D-14-H6/5-459	Plane Main Carriageway for Overlay	1d	30-Jan-12	31-Jan-12	61d
1D-14-H6/5-461	Traffic Signal and Lighting Ducts	3d	30-Jan-12	02-Feb-12	65d
1D-14-H6/5-510	Excavation	1d	31-Jan-12	01-Feb-12	61d
1D-14-H6/5-462	Core and Cast OLE Pole Foundations (1nr)	2d	01-Feb-12	03-Feb-12	62d
1D-14-H6/5-463	Kerbing	3d	01-Feb-12	06-Feb-12	61d
1D-14-H6/5-466	Signs / Street Furniture	5d	01-Feb-12	08-Feb-12	65d
1D-14-H6/5-464	Footpath Works / Finishes	2d	06-Feb-12	08-Feb-12	61d
1D-14-H6/5-465	35mm Surface Course	1d	08-Feb-12	09-Feb-12	61d
1D-14-H6/5-467	Road Signals and Markings	3d	09-Feb-12	14-Feb-12	61d
Commissioning and Testing		**10d**	**20-Apr-12**	**04-May-12**	**13d**
1D-14/15--817	Commissioning and Testing	10d	20-Apr-12	04-May-12	13d
Princes Street West Tram Stop		**193d**	**12-Jul-10**	**25-Apr-11**	**355d**
1C-15A-TRMS-20	wayleave issued	0d	12-Jul-10		355d
721	Tramstop Platform incl related cubicle foundations	20d	03-Nov-10*	30-Nov-10	229d
1C-15A-TRMS-30	Access for visual inspection for E&M Tram Stop installation (01D Princess Street West)	0d	09-Dec-10		482d
1C-15A-TRMS-40	Deliver and Install Shelter	10d	10-Jan-11*	21-Jan-11	229d
1C-15A-TRMS-31	Access for E&M Tram Stop installation (01D Princess Street West)	0d	24-Jan-11		277d
1C-15A-TRMS-45	Deliver and Install cubicle	10d	24-Jan-11	04-Feb-11	229d
1C-15A-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	07-Feb-11	11-Mar-11	229d
731	Princes Street Finishing Works	20d	07-Feb-11*	04-Mar-11	430d
1C-15A-TRMS-70	Install Telecon Equipment	20d	14-Mar-11	11-Apr-11	234d
1C-15A-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	14-Mar-11	18-Apr-11	229d
1C-15A-TRMS-80	Package Test Tramstop	5d	19-Apr-11	25-Apr-11	267d
Shandwick Place Tram Stop		**339d**	**12-Jul-10**	**21-Nov-11**	**249d**
1D-14-TRMS-20	wayleave issued	0d	12-Jul-10		355d
1D-14-TRMS-90	Civil Engineering And Building Works	65d	25-Mar-11	29-Jun-11	180d
831	Ducting and Chambers	15d	18-Apr-11	10-May-11	105d
862	Tramstop Platform incl related cubicle foundations	40d	10-May-11	06-Jul-11	105d
1D-14-TRMS-30	Access for visual inspection for E&M Tram Stop installation (01D Shadwick Place)	0d	20-Jun-11		370d
1D-14-TRMS-40	Deliver and Install Shelter	10d	06-Jul-11	20-Jul-11	105d
1D-14-TRMS-31	Access for E&M Tram Stop installation (01D Shadwick Place)	0d	20-Jul-11		165d
1D-14-TRMS-45	Deliver and Install cubicle	10d	20-Jul-11	03-Aug-11	105d
1D-14-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	03-Aug-11	05-Oct-11	105d
1D-14-TRMS-70	Install Telecon Equipment	20d	05-Oct-11	07-Nov-11	110d
1D-14-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	05-Oct-11	14-Nov-11	105d
1D-14-TRMS-80	Package Test Tramstop	5d	14-Nov-11	21-Nov-11	105d
SECTION 2 HAYMARKET CORRIDOR		**404d**	**12-Jul-10**	**06-Mar-12**	**184d**
02A Haymarket Corridor		**404d**	**12-Jul-10**	**06-Mar-12**	**184d**
E & M Installations		**212d**	**25-Apr-11**	**06-Mar-12**	**184d**
2A-13-OHLE-40	Access for visual inspection for E&M wayside installation HAY - ROJ	0d	25-Apr-11		414d
2A-13-ELEC-40	Access visual inspection to cable pits for cable laying HAY - ROJ	0d	25-Apr-11		414d
2A-13-OHLE-41	Access for E&M wayside installation HAY - ROJ	0d	26-May-11		249d
2A-13-ELEC-41	Access to cable pits for cable laying HAY - ROJ	0d	26-May-11		229d
2A-13-SIGN-40	Installation of SIG-interlocking cubicle HAY Yards	15d	26-May-11	16-Jun-11	243d
2A-13/14-OHLE-50	Installation of poles and building fixings -11 (13 1234 - 20 05...	4d	26-May-11	02-Jun-11	211d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0094

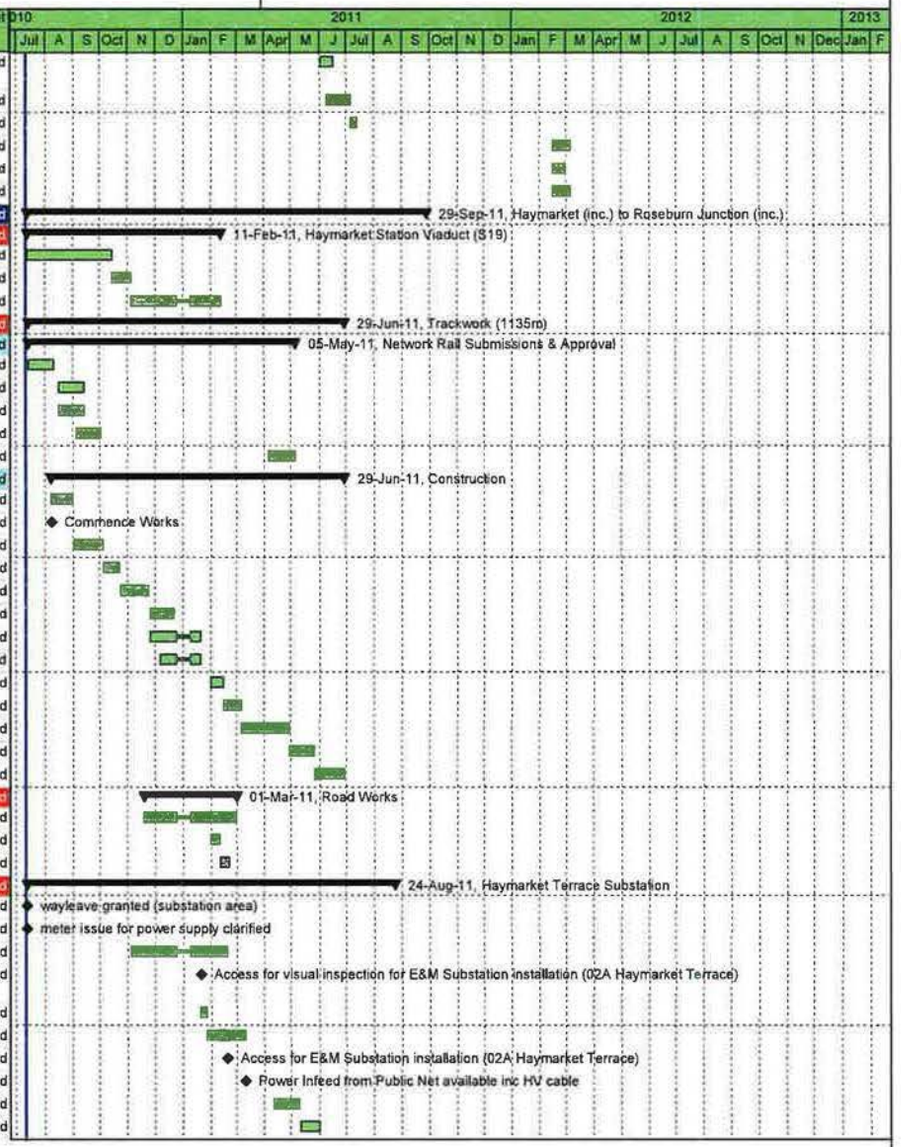
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
2A-13/14-OHLE-60	Overhead Catenary Line -11 (13 1234 - 20 0566 + 20 0249 - 20 0437)	11d	02-Jun-11	17-Jun-11	211d
2A-13-SIGN-90	installation of SIG equipment on HAY Yards	20d	09-Jun-11	07-Jul-11	243d
2A-13-SIGN-80	Commissioning of SIG -interlocking cubicle HAY Yards	5d	07-Jul-11	14-Jul-11	243d
2A-12/13-ELEC-60	Install Electrical Cables HAY - MUS	14d	15-Feb-12	06-Mar-12	56d
2A-12/13/14-TELC-60	Install Fibre Optic Cables SHP - HAY - MUS	11d	15-Feb-12	01-Mar-12	59d
2A-12/13-SGNW-60	Install Signalling Wayside Equipment HAY - MUS	14d	15-Feb-12	06-Mar-12	56d
Haymarket (inc.) to Roseburn Junction (inc.)		302d	12-Jul-10	29-Sep-11	304d
Haymarket Station Viaduct (S19)		143d	12-Jul-10	11-Feb-11	252d
2A-13-S19-50	Superstructure	68d	12-Jul-10	14-Oct-10	204d
2A-13-S19-80	Finishes	15d	15-Oct-10	04-Nov-10	204d
2A-13-S19-90(3)	Crew Relief Facility	60d	05-Nov-10	11-Feb-11	252d
Trackwork (1135m)		235d	14-Jul-10	29-Jun-11	369d
Network Rail Submissions & Approval		197d	14-Jul-10	05-May-11	231d
2A-13-TRCK-12	Ducting and drainage (WPP)	20d	14-Jul-10	11-Aug-10	176d
2A-13-TRCK-10	OLE Foundation Construction v1 (WPP)	20d	17-Aug-10	13-Sep-10	176d
2A-13-TRCK-11	OLE Construction (WPP)	20d	17-Aug-10	13-Sep-10	176d
2A-13-TRCK-13	Installation of Track Slab (WPP)	20d	06-Sep-10	01-Oct-10	176d
2A-13-TRCK-14	OLE Poles and Cabling (WPP)	20d	06-Apr-11	05-May-11	231d
Construction		218d	09-Aug-10	29-Jun-11	369d
2A-13-TRCK-30	Bulk Excavation - Sub Base	18d	09-Aug-10	01-Sep-10	176d
2A-13-TRCK-01	Commence Works	0d	09-Aug-10*		176d
2A-13-TRCK-50	Drainage	23d	02-Sep-10	04-Oct-10	176d
2A-13-TRCK-50(3)	OLE Foundations & Ducts	14d	05-Oct-10	22-Oct-10	176d
2A-13-TRCK-40	Concrete Track Slab	23d	25-Oct-10	24-Nov-10	176d
2A-13A-TRCK-70	Track Laying 1	19d	25-Nov-10	22-Dec-10	176d
2A-13-SIGN-70	point machine mechanical set up	30d	25-Nov-10	20-Jan-11	461d
2A-13-SIGN-60	wayside preparation for loops(17) and boxes(12)	23d	07-Dec-10	20-Jan-11	461d
2A-13B-TRCK-70	Track Laying 2	10d	01-Feb-11	15-Feb-11	176d
2A-13C-TRCK-70	Track Laying 3	14d	15-Feb-11	07-Mar-11	176d
2A-13-TRCK-80	Track Finishes	38d	07-Mar-11	29-Apr-11	176d
2A-13-TRCK-80(3)	Concrete Channel Drain	18d	29-Apr-11	26-May-11	176d
2A-13-TRCK-81	Fencing	23d	26-May-11	29-Jun-11	176d
Road Works		52d	18-Nov-10	01-Mar-11	324d
2A-13C-ROAD-80(3)	Haymarket Yards	62d	18-Nov-10	01-Mar-11	259d
2A-13B-JNCS-60	installation of traffic light control - Junction 90	7d	01-Feb-11	10-Feb-11	330d
2A-13B-JNCS-70	installation of traffic light control - Junction 91	7d	10-Feb-11	21-Feb-11	330d
Haymarket Terrace Substation		277d	12-Jul-10	24-Aug-11	311d
2A-13-SUBS-110	wayleave granted (substation area)	0d		12-Jul-10	306d
2A-13-SUBS-120	meter issue for power supply clarified	0d		12-Jul-10	326d
2A-13-SUBS-90	Civil Engineering and Building Works	65d	05-Nov-10	18-Feb-11	204d
2A-13-SUBS-30	Access for visual inspection for E&M Substation installation (02A Haymarket Terrace)	0d	20-Jan-11		209d
2A-13-SUBS-100	cable duct for Power Infeed	5d	20-Jan-11	27-Jan-11	205d
2A-13-SUBS-130	installation HV cable	30d	27-Jan-11	10-Mar-11	205d
2A-13-SUBS-31	Access for E&M Substation installation (02A Haymarket Terr...	0d	18-Feb-11		209d
2A-13-SUBS-40	Power Infeed from Public Net available inc HV cable	0d	10-Mar-11		205d
2A-13-SUBS-45	Install HV Power Supply and Equipment (SP)	20d	12-Apr-11	10-May-11	183d
2A-13-SUBS-50	Install LV Power Supply and LV Power Equipment	15d	11-May-11	01-Jun-11	183d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0095

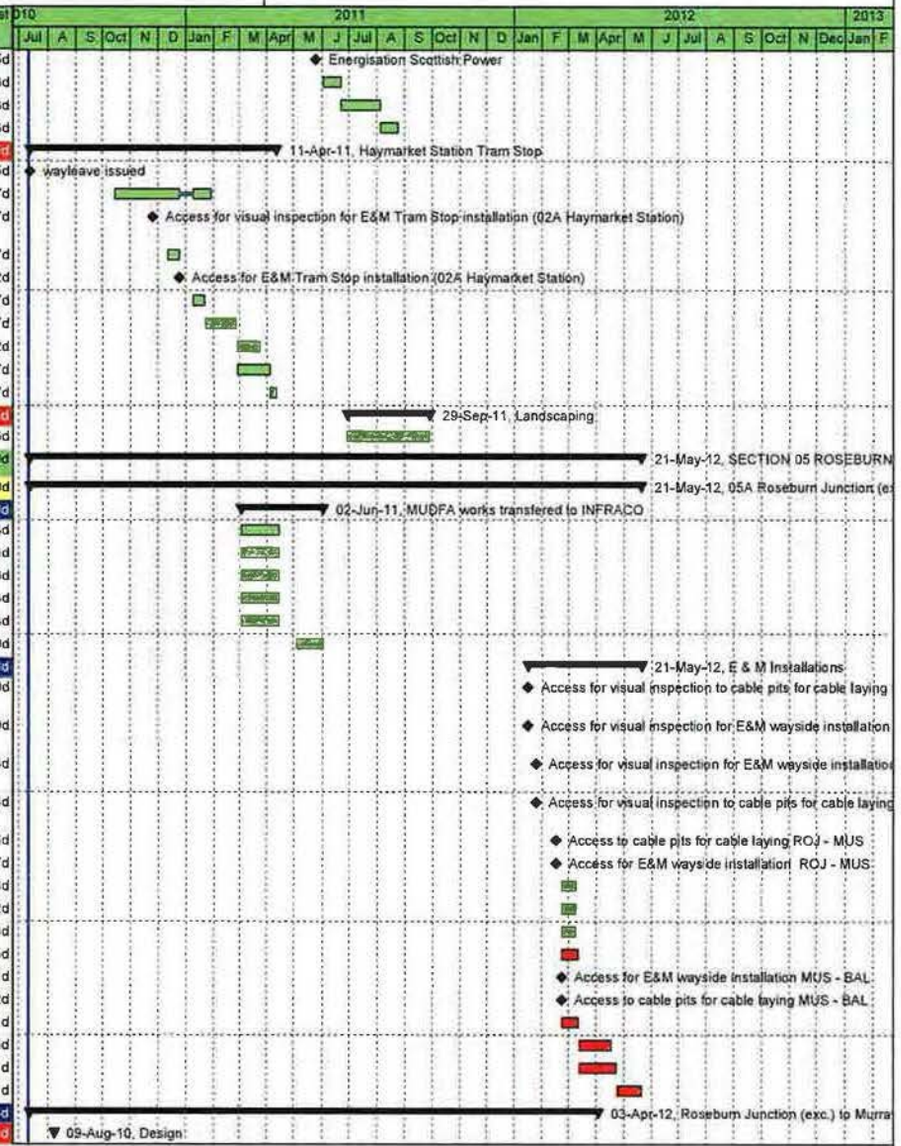
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
2A-13-SUBS-55	Energisation Scottish Power	0d	25-May-11		375d
2A-13-SUBS-70	Install Telecom and Scada	15d	02-Jun-11	22-Jun-11	183d
2A-13-SUBS-60	Installation of TPS Equipment	30d	23-Jun-11	04-Aug-11	183d
2A-13-SUBS-80	Testing and Commissioning	14d	05-Aug-11	24-Aug-11	183d
Haymarket Station Tram Stop		183d	12-Jul-10	11-Apr-11	405d
2A-13-TRMS-20	wayleave issued	0d	12-Jul-10		335d
2A-13-TRMS-90	Civil Engineering and Building Works	65d	15-Oct-10	28-Jan-11	257d
2A-13-TRMS-30	Access for visual inspection for E&M Tram Stop installation (02A Haymarket Station)	0d	25-Nov-10		517d
2A-13-TRMS-40	Deliver and Install Shelter	10d	13-Dec-10	24-Dec-10	257d
2A-13-TRMS-31	Access for E&M Tram Stop installation (02A Haymarket Stati...	0d	24-Dec-10		312d
2A-13-TRMS-45	Deliver and Install cubicle	10d	10-Jan-11	21-Jan-11	257d
2A-13-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	24-Jan-11	25-Feb-11	277d
2A-13-TRMS-70	Install Telecon Equipment	20d	28-Feb-11	25-Mar-11	282d
2A-13-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	28-Feb-11	04-Apr-11	277d
2A-13-TRMS-80	Package Test Tramstop	5d	05-Apr-11	11-Apr-11	277d
Landscaping		65d	29-Jun-11	29-Sep-11	176d
2A-13-LAND-100(3)	Landscaping to Section 2A	65d	29-Jun-11	29-Sep-11	176d
SECTION 05 ROSEBURN JUNCTION TO GOGAR		459d	12-Jul-10	21-May-12	129d
05A Roseburn Junction (exc.) to Balgreen Road (inc.)		459d	12-Jul-10	21-May-12	129d
MUDFA works transfered to INFRACO		51d	04-Mar-11	02-Jun-11	389d
5A-BT-D-02(3)	BT Russell Road Ret Wall	30d	04-Mar-11	15-Apr-11	33d
5A-BT-D-03(3)	BT Russell Road Ret Wall	30d	04-Mar-11	15-Apr-11	33d
5A-SGN-D-02(3)	Gas Russell Road Ret Wall	30d	04-Mar-11	15-Apr-11	33d
5A-SP-D-01(3)	Electric Russell Road Ret Wall	30d	04-Mar-11	15-Apr-11	33d
5A-BT-D-01(3)	BT Russell Road Ret Wall	30d	04-Mar-11	15-Apr-11	33d
5A-SP-D-02(3)	Electric Balgreen Road	20d	04-May-11	02-Jun-11	389d
E & M Installations		90d	16-Jan-12	21-May-12	129d
5A-12-ELEC-30	Access for visual inspection to cable pits for cable laying ROJ - MUS	0d	16-Jan-12		220d
5A-12-OHLE-30	Access for visual inspection for E&M wayside installation ROJ - MUS	0d	16-Jan-12		220d
5A-11-OHLE-30	Access for visual inspection for E&M wayside installation MUS - BAL	0d	24-Jan-12		214d
5A-11-ELEC-30	Access for visual inspection to cable pits for cable laying MUS - BAL	0d	24-Jan-12		214d
5A-12-ELEC-31	Access to cable pits for cable laying ROJ - MUS	0d	15-Feb-12		56d
5A-12-OHLE-31	Access for E&M wayside installation ROJ - MUS	0d	15-Feb-12		7d
5A-11-ELEC-60	Install Electrical Cables MUS - BAL	11d	23-Feb-12	08-Mar-12	53d
5A-11/12/13-TELC-60	Install Fibre Optic Cables HAY - MUS - BAL	12d	23-Feb-12	09-Mar-12	52d
5A-11-SGNW-60	Install Signalling Wayside Equipment MUS - BAL	11d	23-Feb-12	08-Mar-12	53d
5A-10/11-OHLE-50	Installation of poles and building fixings -13 (51 0770 - 52 07...	13d	23-Feb-12	12-Mar-12	5d
5A-11-OHLE-31	Access for E&M wayside installation MUS - BAL	0d	23-Feb-12		1d
5A-11-ELEC-31	Access to cable pits for cable laying MUS - BAL	0d	23-Feb-12		52d
5A-11/12/13-OHLE-50	Installation of poles and building fixings -12 (20 0457 - 51 09...	13d	23-Feb-12	12-Mar-12	1d
5A-10/11-OHLE-60	Overhead Catenary Line -13 (51 0770 - 52 0754)	26d	13-Mar-12	17-Apr-12	5d
5A-11/12/13-OHLE-60	Overhead Catenary Line -12 (20 0457 - 51 0966)	30d	13-Mar-12	23-Apr-12	1d
5A-11/12/13-OHLE-70	Testing & Commissioning	20d	24-Apr-12	21-May-12	1d
Roseburn Junction (exc.) to Murrayfield Stadium (inc.)		424d	12-Jul-10	03-Apr-12	164d
Design		0d	09-Aug-10	09-Aug-10	0d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0096

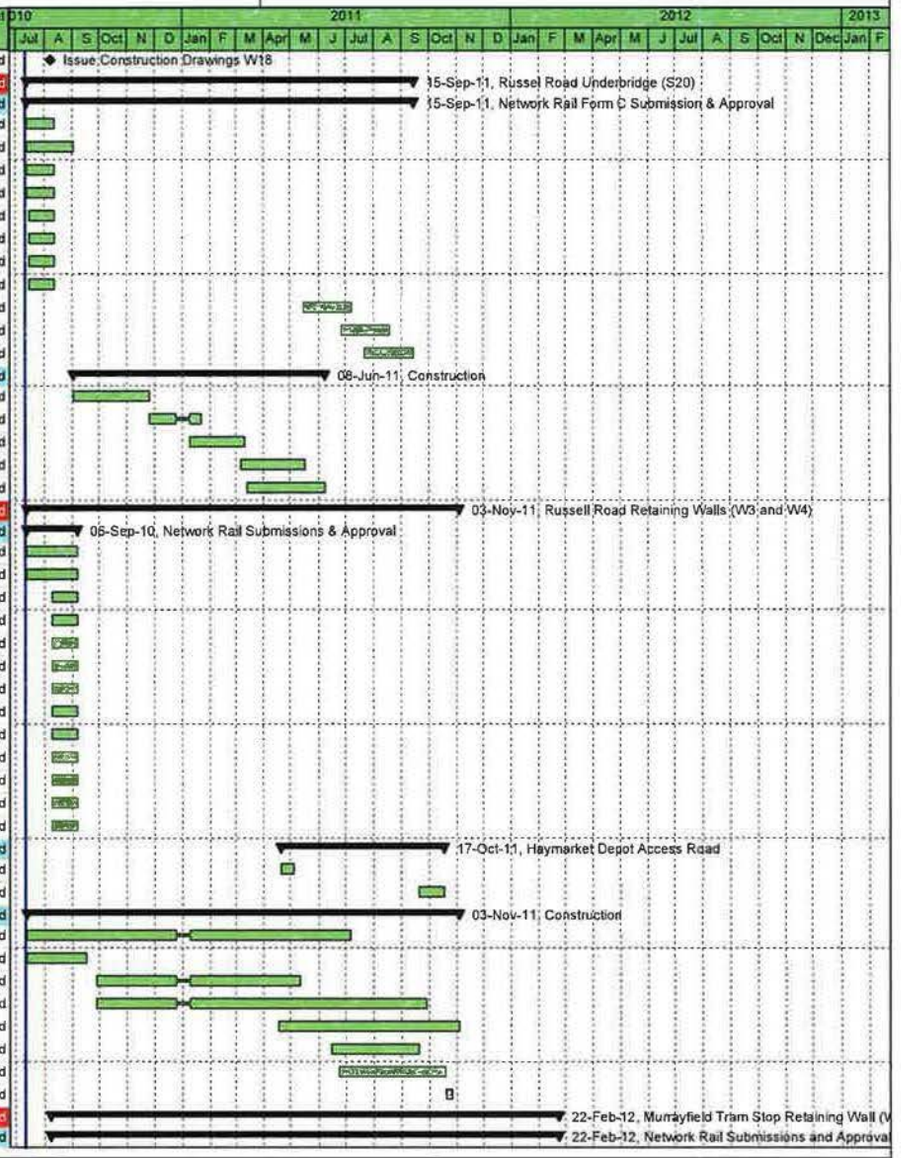
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5A-12-W18-10	Issue Construction Drawings W18	0d		09-Aug-10*	0d
Russel Road Underbridge (S20)		292d	12-Jul-10	15-Sep-11	90d
Network Rail Form C Submission & Approval		292d	12-Jul-10	15-Sep-11	90d
5A-12-S20-11(3)	Permanent Piling Working Platform (Form C)	23d	12-Jul-10	12-Aug-10	28d
5A-12-S20-16(3)	OLE Poles and Cabling (WPP)	38d	12-Jul-10	02-Sep-10	344d
5A-12-S20-17(3)	Crane Working Platform (Form C)	23d	12-Jul-10	12-Aug-10	28d
5A-12-S20-19(3)	Soil Nailing v2 (Form C)	23d	12-Jul-10	12-Aug-10	28d
5A-12-S20-10(3)	Permanent Piling v1 (WPP)	20d	15-Jul-10	12-Aug-10	28d
5A-12-S20-12(3)	Protection of Gas Main v1 (WPP)	20d	15-Jul-10	12-Aug-10	28d
5A-12-S20-18(3)	S20 Construction (WPP)	20d	15-Jul-10	12-Aug-10	28d
5A-12-S20-20(3)	Soil Nailing v2 (WPP)	20d	15-Jul-10	12-Aug-10	28d
5A-12-S20-14(3)	Ducting and drainage (WPP)	38d	16-May-11	08-Jul-11	7d
5A-12-S20-13(3)	OLE Construction (WPP)	38d	27-Jun-11	19-Aug-11	7d
5A-12-S20-15(3)	Installation of Track Slab (WPP)	38d	22-Jul-11	15-Sep-11	7d
Construction		185d	03-Sep-10	08-Jun-11	70d
5A-12-S20-40	Excavation and piling	60d	03-Sep-10	25-Nov-10	28d
5A-12-S20-50	Bases	30d	26-Nov-10	21-Jan-11	28d
5A-12-S20-51	Abutments and Wing Walls	45d	10-Jan-11	11-Mar-11	28d
5A-12-S20-60	Deck	50d	07-Mar-11	17-May-11	85d
5A-12-S20-80	Bridge Finishes	60d	14-Mar-11	08-Jun-11	28d
Russell Road Retaining Walls (W3 and W4)		328d	12-Jul-10	03-Nov-11	132d
Network Rail Submissions & Approval		40d	12-Jul-10	06-Sep-10	59d
5A-12-W4-14(3)	Bored piling working platform to Units 1 to 10 (Form C)	40d	12-Jul-10	06-Sep-10	33d
5A-12-W4-16(3)	Bored piling working platform to Units 23 to 29 (Form C)	40d	12-Jul-10	06-Sep-10	59d
5A-12-W4-10(3)	Slope stability for Units 1 to 10 (CAT III)	20d	10-Aug-10	06-Sep-10	33d
5A-12-W4-13(3)	TW to retain Royal Mail bldg (CAT III)	20d	10-Aug-10	06-Sep-10	33d
5A-12-W4-18(3)	TW to construct pilecaps for Units 1 to 10 (In House))	20d	10-Aug-10	06-Sep-10	33d
5A-12-W4-15(3)	Slope stability for Units 23 to 29 (CAT III)	20d	10-Aug-10	06-Sep-10	59d
5A-12-W4-21(3)	TW to construct pilecaps for Units 21 to 29 (In House)	20d	10-Aug-10	06-Sep-10	59d
5A-12-W4-11(3)	Open cut excav & sheet piling installation to Units 1 to 10 (W...	20d	10-Aug-10	06-Sep-10	33d
5A-12-W4-17(3)	Installation of bored piling to Units 1 to 10 (WPP)	20d	10-Aug-10	06-Sep-10	33d
5A-12-W4-19(3)	Construction of pilecap & walls Units 1 to 10 (WPP)	20d	10-Aug-10	06-Sep-10	33d
5A-12-W4-12(3)	Open cut excav & sheet piling installation to Units 21 to 29 (...	20d	10-Aug-10	06-Sep-10	59d
5A-12-W4-20(3)	Installation of bored piling to Units 21 to 29 (WPP)	20d	10-Aug-10	06-Sep-10	59d
5A-12-W4-22(3)	Construction of pilecap & walls Units 21 to 29 (WPP)	20d	10-Aug-10	06-Sep-10	59d
Haymarket Depot Access Road		126d	20-Apr-11	17-Oct-11	145d
5A-12-W4-54(3)10	Temporary Realignment	10d	20-Apr-11	04-May-11	33d
5A-12-W4-54(3)20	Permanent Realignment	20d	20-Sep-11	17-Oct-11	145d
Construction		328d	12-Jul-10	03-Nov-11	132d
5A-12-W4-53(3)	Retaining Wall W4B &4C	243d	12-Jul-10	06-Jul-11	8d
5A-12-W4-50(3)	Retaining Wall W4A (enabling works)	48d	12-Jul-10	16-Sep-10	40d
5A-12-W4-55(3)	Retaining Wall W4A	149d	28-Sep-10	11-May-11	33d
5A-12-W4-59(3)	Retaining Wall W4D	247d	28-Sep-10	28-Sep-11	59d
5A-12-W3-57(3)	Retaining Wall W3B	141d	18-Apr-11	03-Nov-11	33d
5A-12-W3-56(3)	Retaining Wall W3A	68d	15-Jun-11	19-Sep-11	66d
5A-12-W3-58(3)	Retaining Wall W3C	83d	24-Jun-11	19-Oct-11	44d
5A-12-JNCS-60	installation of traffic light control - Junction 200	5d	20-Oct-11	26-Oct-11	138d
Murrayfield Tram Stop Retaining Wall (W16)		377d	09-Aug-10	22-Feb-12	1d
Network Rail Submissions and Approval		377d	09-Aug-10	22-Feb-12	1d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0097

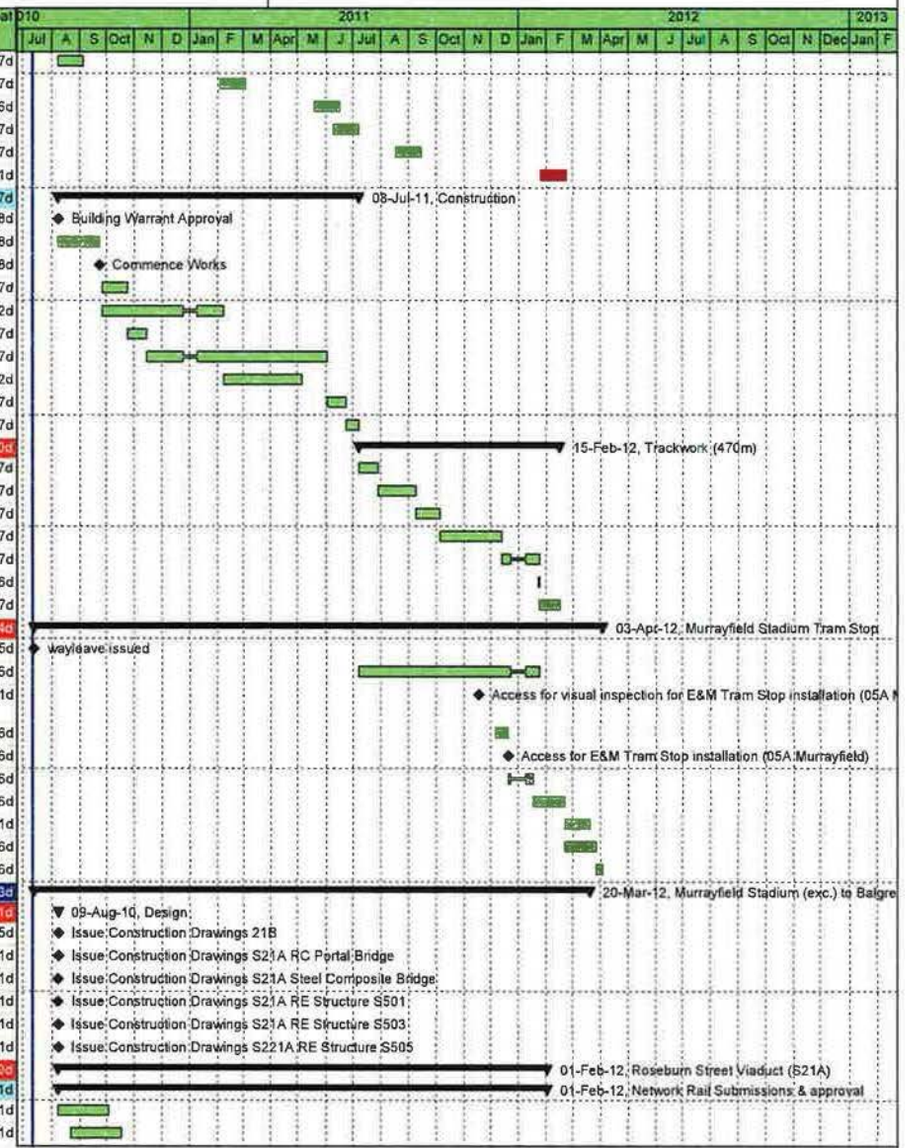
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5A-12-W18-11	W18 Construction v1 (WPP)	20d	09-Aug-10	06-Sep-10	7d
5A-12-W18-14	Installation of Track Slab (WPP)	20d	04-Feb-11	04-Mar-11	7d
5A-12-W18-16	Tramstop Construction (WPP)	20d	19-May-11	17-Jun-11	36d
5A-12-W18-13	Ducting and drainage (WPP)	20d	10-Jun-11	08-Jul-11	7d
5A-12-W18-12	OLE Construction (WPP)	20d	18-Aug-11	15-Sep-11	7d
5A-12-W18-15	OLE Poles and Cabling (WPP)	20d	26-Jan-12	22-Feb-12	1d
Construction		225d	09-Aug-10	08-Jul-11	7d
5A-12-W18-02	Building Warrant Approval	0d	09-Aug-10*		8d
5A-12-W18-21	demolish and rebuild	34d	09-Aug-10	24-Sep-10	8d
5A-12-W18-01	Commence Works	0d	24-Sep-10*		8d
5A-12-W18-31(3)	Site Clearance	20d	27-Sep-10	25-Oct-10	7d
5A-12-W18-81(3)	North Main Stairs Wall	85d	27-Sep-10	08-Feb-11	52d
5A-12-W18-50(3)	Foundations	15d	25-Oct-10	15-Nov-10	7d
5A-12-W18-51(3)	Reinforced Earth Wall	130d	15-Nov-10	03-Jun-11	7d
5A-12-W18-82(3)	North Main Stairs	60d	08-Feb-11	05-May-11	52d
5A-12-W18-52(3)	Coping	15d	03-Jun-11	24-Jun-11	7d
5A-12-W18-80(3)	Handrail	10d	24-Jun-11	08-Jul-11	7d
Trackwork (470m)		146d	08-Jul-11	15-Feb-12	70d
5A-12-TRCK-30	Sub Base	15d	08-Jul-11	29-Jul-11	7d
5A-12-TRCK-50	Drainage	29d	29-Jul-11	09-Sep-11	7d
5A-12-TRCK-51(3)	OLE Foundations & Ducts	19d	09-Sep-11	06-Oct-11	7d
5A-12-TRCK-40	Track Slab	47d	06-Oct-11	13-Dec-11	7d
5A-12-TRCK-70	Track Laying (470m) + mob	20d	13-Dec-11	24-Jan-12	7d
5A-12-SIGN-60	wayside preparation for loops(0) and boxes(1)	1d	23-Jan-12	24-Jan-12	86d
5A-12-TRCK-80	Track Finishes	16d	24-Jan-12	15-Feb-12	7d
Murrayfield Stadium Tram Stop		424d	12-Jul-10	03-Apr-12	164d
5A-12-TRMS-20	wayleave issued	0d	12-Jul-10		355d
5A-12-TRMS-90(3)	Civil Engineering and Building Works	130d	08-Jul-11	24-Jan-12	36d
5A-12-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05A Murrayfield)	0d	18-Nov-11		261d
5A-12-TRMS-40	Deliver and Install Shelter	10d	06-Dec-11	20-Dec-11	36d
5A-12-TRMS-31	Access for E&M Tram Stop installation (05A Murrayfield)	0d	20-Dec-11		56d
5A-12-TRMS-45	Deliver and Install cubicle	10d	20-Dec-11	17-Jan-12	36d
5A-12-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	17-Jan-12	21-Feb-12	36d
5A-12-TRMS-70	Install Telecon Equipment	20d	21-Feb-12	20-Mar-12	41d
5A-12-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	21-Feb-12	27-Mar-12	36d
5A-12-TRMS-80	Package Test Tramstop	5d	27-Mar-12	03-Apr-12	36d
Murrayfield Stadium (exc.) to Balgreen Road (inc.)		415d	12-Jul-10	20-Mar-12	173d
Design		0d	09-Aug-10	09-Aug-10	211d
5A-11-S21B-10(3)	Issue Construction Drawings 21B	0d		09-Aug-10*	55d
5A-11-S21A-10(3)	Issue Construction Drawings S21A RC Portal Bridge	0d		09-Aug-10*	71d
5A-11-S21A-20(3)	Issue Construction Drawings S21A Steel Composite Bridge	0d		09-Aug-10*	61d
5A-11-S21A-30(3)	Issue Construction Drawings S21A RE Structure S501	0d		09-Aug-10*	211d
5A-11-S21A-40(3)	Issue Construction Drawings S21A RE Structure S503	0d		09-Aug-10*	211d
5A-11-S21A-50(3)	Issue Construction Drawings S221A RE Structure S505	0d		09-Aug-10*	191d
Roseburn Street Viaduct (S21A)		362d	09-Aug-10	01-Feb-12	79d
Network Rail Submissions & approval		362d	09-Aug-10	01-Feb-12	1d
5A-11-S21A-16(3)	S504 Piling Working Platform (Form C)	40d	09-Aug-10	04-Oct-10	61d
5A-11-S21A-13(3)	S502 Piling Working Platform (Form C)	40d	23-Aug-10	18-Oct-10	61d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0098

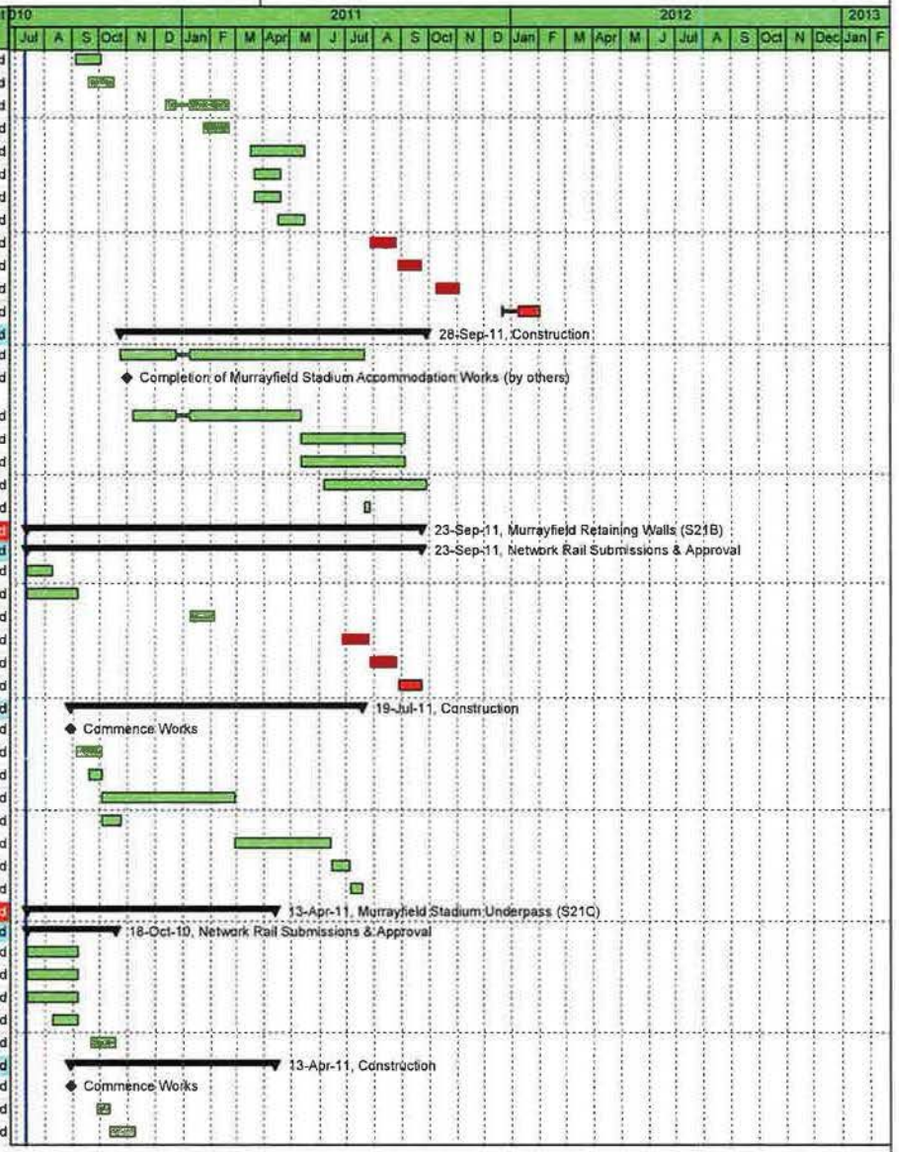
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5A-11-S21A-15(3)	S504 Construction (WPP)	20d	06-Sep-10	04-Oct-10	61d
5A-11-S21A-12(3)	S502 Construction (WPP)	20d	20-Sep-10	18-Oct-10	61d
5A-11-S21A-18(3)	S504 Bridge Beam Working Crane Platform (Form C)	40d	14-Dec-10	22-Feb-11	61d
5A-11-S21A-17(3)	S504 Bridge Beam Installation (WPP)	20d	25-Jan-11	22-Feb-11	61d
5A-11-S21A-21(3)	S505 Sheet Piling/ Temp Works. (Form C)	40d	18-Mar-11	16-May-11	43d
5A-11-S21A-11(3)	S501 Construction (WPP)	20d	22-Mar-11	20-Apr-11	61d
5A-11-S21A-14(3)	S503 Construction (WPP)	20d	22-Mar-11	20-Apr-11	61d
5A-11-S21A-19(3)	S505 Construction (WPP)	20d	18-Apr-11	16-May-11	43d
5A-11-S21A-22(3)	OLE Construction (WPP)	20d	29-Jul-11	26-Aug-11	1d
5A-11-S21A-23(3)	Ducting and drainage (WPP)	20d	29-Aug-11	23-Sep-11	1d
5A-11-S21A-24(3)	Installation of Track Slab (WPP)	20d	10-Oct-11	04-Nov-11	1d
5A-11-S21A-25(3)	OLE Poles and Cabling (WPP)	20d	22-Dec-11	01-Feb-12	1d
Construction		228d	25-Oct-10	28-Sep-11	158d
5A-11-S21A-70(3)	Structure S504	180d	25-Oct-10	22-Jul-11	61d
5A-11-S21A-70(3)10	Completion of Murrayfield Stadium Accommodation Works (by others)	0d		31-Oct-10*	92d
5A-11-S21A-71(3)	Structure S502	120d	08-Nov-10	12-May-11	61d
5A-11-S21A-62(3)	Structure S501	80d	12-May-11	05-Sep-11	61d
5A-11-S21A-63(3)	Structure S503	80d	12-May-11	05-Sep-11	61d
5A-11-S21A-64(3)	Structure S505	80d	07-Jun-11	28-Sep-11	43d
5A-11-JNCS-60	installation of traffic light control - Junction 201	4d	22-Jul-11	28-Jul-11	202d
Murrayfield Retaining Walls (S21B)		299d	12-Jul-10	23-Sep-11	1d
Network Rail Submissions & Approval		299d	12-Jul-10	23-Sep-11	1d
5A-11-S21B-12(3)	Installation of sheet piles (WPP)	20d	12-Jul-10	09-Aug-10	54d
5A-11-S21B-13(3)	Installation of sheet piles (design) (Form C)	40d	12-Jul-10	06-Sep-10	34d
5A-11-S21B-14(3)	Construction of steep green slope section (WPP)	20d	10-Jan-11	04-Feb-11	30d
5A-11-S21B-17(3)	Installation of Lower Ballast (WPP)	20d	28-Jun-11	25-Jul-11	1d
5A-11-S21B-15(3)	OLE Construction (WPP)	20d	29-Jul-11	26-Aug-11	1d
5A-11-S21B-16(3)	Ducting and drainage (WPP)	20d	29-Aug-11	23-Sep-11	1d
Construction		218d	30-Aug-10	19-Jul-11	30d
5A-11-S21B-21	Commence Works	0d	30-Aug-10*		119d
5A-11-S21B-31	Site Clearance	20d	06-Sep-10	04-Oct-10	114d
5A-11-S21B-32	Demolition	10d	20-Sep-10	04-Oct-10	114d
5A-11-S21B-61(3)	Sheet Piling, Ground Anchors, Bulk Excavation	22d	03-Oct-10	27-Feb-11	6d
5A-11-S21B-51	Foundations	15d	04-Oct-10	25-Oct-10	114d
5A-11-S21B-52	Reinforced Earth Wall	74d	28-Feb-11	14-Jun-11	30d
5A-11-S21B-53	Coping	15d	15-Jun-11	05-Jul-11	30d
5A-11-S21B-80	Handrail	10d	06-Jul-11	19-Jul-11	30d
Murrayfield Stadium Underpass (S21C)		185d	12-Jul-10	13-Apr-11	87d
Network Rail Submissions & Approval		70d	12-Jul-10	18-Oct-10	87d
5A-11-S21C-25(3)	Network Rail Form C Submission & Approval	40d	12-Jul-10	06-Sep-10	87d
5A-11-S21C-11(3)	Crane Working Platform (Form C)	40d	12-Jul-10	06-Sep-10	97d
5A-11-S21C-13(3)	Soil Nailing Working Platform (Form C)	40d	12-Jul-10	06-Sep-10	117d
5A-11-S21C-10(3)	Construction v2 (WPP)	20d	10-Aug-10	06-Sep-10	87d
5A-11-S21C-12(3)	Soil Nailing v2 (WPP)	20d	21-Sep-10	18-Oct-10	87d
Construction		151d	30-Aug-10	13-Apr-11	87d
5A-11-S21C-10	Commence Works	0d	30-Aug-10*		108d
5A-11-S21C-31	Site Clearance	10d	28-Sep-10	11-Oct-10	87d
5A-11-S21C-32	Temporary Works - Demolition	20d	12-Oct-10	08-Nov-10	87d



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29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

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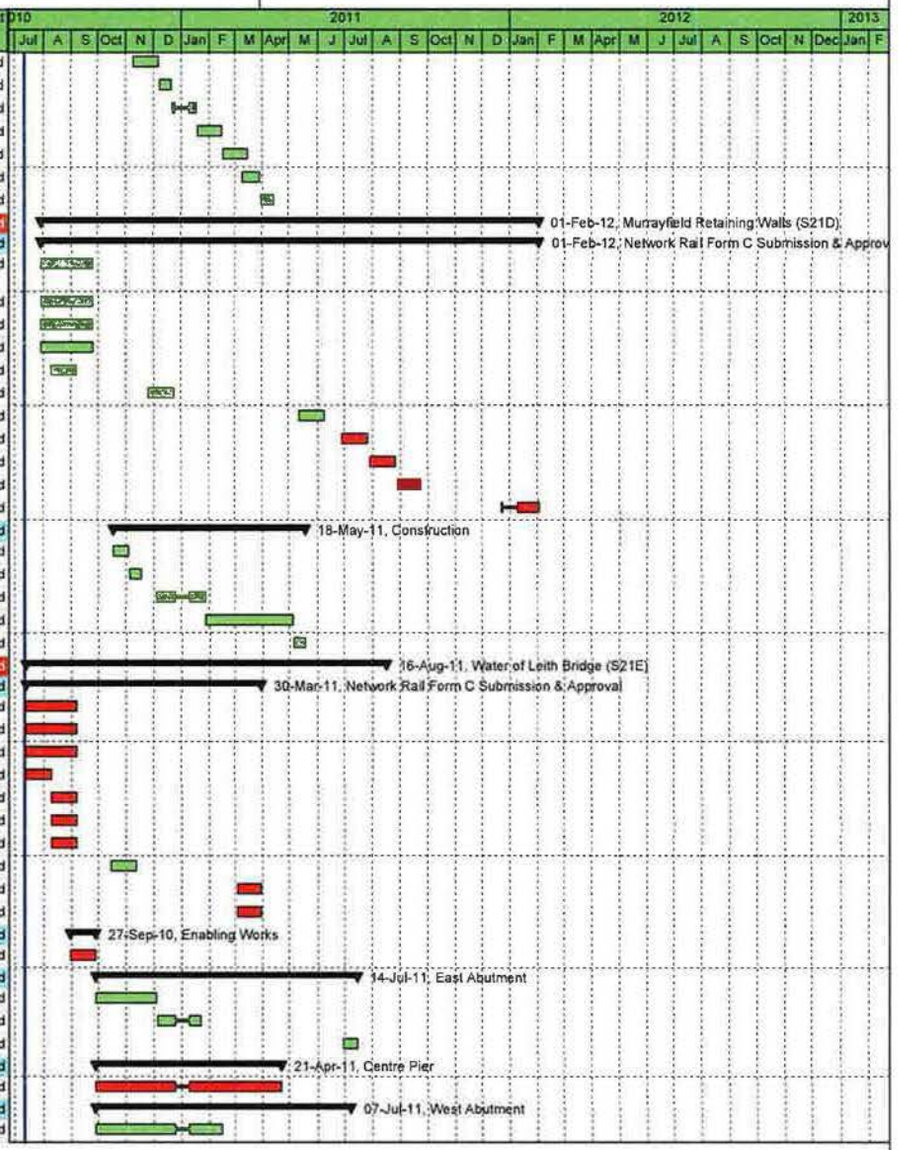
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5A-11-S21C-32(3)	Additional Sheet Piling	20d	09-Nov-10	07-Dec-10	87d
5A-11-S21C-33	Earthworks	10d	08-Dec-10	21-Dec-10	87d
5A-11-S21C-51	Base	10d	22-Dec-10	18-Jan-11	87d
5A-11-S21C-52	Walls	20d	19-Jan-11	15-Feb-11	87d
5A-11-S21C-61	Roof	20d	16-Feb-11	15-Mar-11	87d
5A-11-S21C-62	Parapet Walls	15d	09-Mar-11	29-Mar-11	87d
5A-11-S21C-80	Finishes	10d	30-Mar-11	13-Apr-11	87d
Murrayfield Retaining Walls (S21D)		367d	30-Jul-10	01-Feb-12	181d
Network Rail Form C Submission & Approvals		367d	30-Jul-10	01-Feb-12	181d
5A-11-S21D-10(3)	Network Rail Form C West end Piling Platform Submission & Approval	40d	30-Jul-10*	24-Sep-10	74d
5A-11-S21D-11(3)	Network Rail Form C West End PilingSubmission & Approval	40d	30-Jul-10*	24-Sep-10	74d
5A-11-S21D-12(3)	Network Rail Form C toe Piling PlatformSubmission & Appro...	40d	30-Jul-10*	24-Sep-10	74d
5A-11-S21D-13(3)	Network Rail Form C Toe Sheet Piling Submission & Approval	40d	30-Jul-10*	24-Sep-10	74d
5A-11-S21D-15(3)	Installation of sheet piling to western end (WoL) (WPP)	20d	10-Aug-10	06-Sep-10	63d
5A-11-S21D-14(3)	Construction of steep green slope section (WPP)	20d	25-Nov-10	23-Dec-10	63d
5A-11-S21D-16(3)	Construction of mod block wall to western end (WoL) (WPP)	20d	11-May-11	08-Jun-11	339d
5A-11-S21D-13(3)10	Installation of Lower Ballast (WPP)	20d	28-Jun-11	25-Jul-11	1d
5A-11-S21D-17(3)	OLE Construction (WPP)	20d	29-Jul-11	26-Aug-11	1d
5A-11-S21D-18(3)	Ducting and drainage (WPP)	20d	29-Aug-11	23-Sep-11	1d
5A-11-S21D-13(3)20	OLE Poles and Cabling (WPP)	20d	22-Dec-11	01-Feb-12	5d
Construction		140d	18-Oct-10	18-May-11	63d
5A-11-S21D-30(3)	Site Clearance / Testing / Design Check	13d	18-Oct-10	03-Nov-10	74d
5A-11-S21D-61(3)	Sheet Piling	10d	04-Nov-10	17-Nov-10	74d
5A-11-S21D-62(3)	Bulk Excavation	29d	03-Dec-10	27-Jan-11	63d
5A-11-S21D-62(3)10	Green Slope	67d	27-Jan-11	04-May-11	63d
5A-11-S21D-80	Parapet	10d	05-May-11	18-May-11	63d
Water of Leith Bridge (S21E)		271d	12-Jul-10	16-Aug-11	317d
Network Rail Form C Submission & Approval		176d	12-Jul-10	30-Mar-11	1d
5A-11-S21E-13(3)	Mobile crane working platform to construct bridge (Form C)	40d	12-Jul-10	06-Sep-10	1d
5A-11-S21E-11(3)	Sheet piling working platform to centre pier (Form C)	40d	12-Jul-10	06-Sep-10	1d
5A-11-S21E-12(3)	Bored piling working platform to centre pier (Form C)	40d	12-Jul-10	06-Sep-10	1d
5A-11-S21E-20(3)	Construction of New M/Hole over Egg Sewer	20d	12-Jul-10	09-Aug-10	1d
5A-11-S21E-14(3)	Installation of sheet piling to centre pier (WPP)	20d	10-Aug-10	06-Sep-10	1d
5A-11-S21E-15(3)	Installation of bored piling to centre pier (WPP)	20d	10-Aug-10	06-Sep-10	1d
5A-11-S21E-16(3)	Construction of centre pier (WPP)	20d	10-Aug-10	06-Sep-10	1d
5A-11-S21E-17(3)	Construction of abutments (WPP)	20d	15-Oct-10	11-Nov-10	64d
5A-11-S21E-18(3)	Construction of deck (WPP)	20d	03-Mar-11	30-Mar-11	1d
5A-11-S21E-19(3)	Steel Work Carried out by Maybe Construction	20d	03-Mar-11	30-Mar-11	1d
Enabling Works		20d	31-Aug-10	27-Sep-10	1d
5A-11-S21E-35(3)	Sewer Enabling Works	20d	31-Aug-10	27-Sep-10	1d
East Abutment		194d	28-Sep-10	14-Jul-11	339d
5A-11-S21E-45(3)	Formation to East Abutment (Murrayfield)	48d	28-Sep-10	03-Dec-10	63d
5A-11-S21E-46(3)	Bankseat	25d	06-Dec-10	21-Jan-11	64d
5A-11-S21E-47(3)	Phase 2	11d	30-Jun-11	14-Jul-11	339d
Centre Pier		136d	28-Sep-10	21-Apr-11	1d
5A-11-S21E-51	Leaf Pier	136d	28-Sep-10	21-Apr-11	1d
West Abutment		189d	28-Sep-10	07-Jul-11	344d
5A-11-S21E-52	Formation to West Abutment (Baird Drive)	89d	28-Sep-10	14-Feb-11	31d



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Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

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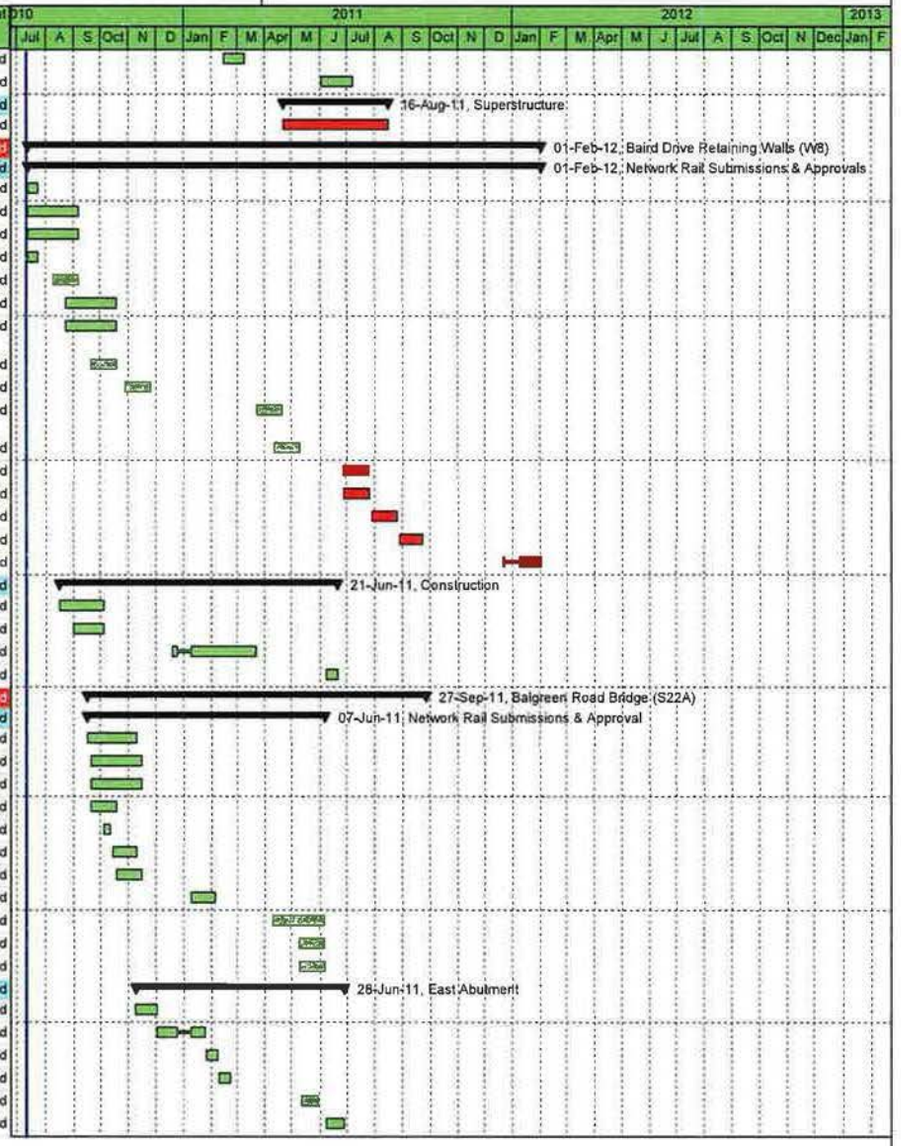
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5A-11-S21E-53	Bankseat	17d	15-Feb-11	09-Mar-11	31d
5A-11-S21E-63	Phase 2	26d	02-Jun-11	07-Jul-11	344d
Superstructure		80d	22-Apr-11	16-Aug-11	1d
5A-11-S21E-60	Bridge Deck & Finishes	80d	22-Apr-11	16-Aug-11	1d
Baird Drive Retaining Walls (W8)		381d	12-Jul-10	01-Feb-12	166d
Network Rail Submissions & Approvals		381d	12-Jul-10	01-Feb-12	166d
5A-11-W8-10(3)	Slope stability for steep green slope section (Form C)	10d	12-Jul-10	23-Jul-10	92d
5A-11-W8-11(3)	Sheet piling to eastern end (WoL) (Form C)	40d	12-Jul-10	06-Sep-10	31d
5A-11-W8-12(3)	Sheet piling working platform to eastern end (WoL) (Form C)	40d	12-Jul-10	06-Sep-10	31d
5A-11-W8-25(3)160	Site Setup (WPP)	10d	12-Jul-10	23-Jul-10	92d
5A-11-W8-16(3)	Installation of sheet piling to eastern end (WoL) (WPP)	20d	10-Aug-10	06-Sep-10	31d
5A-11-W8-13(3)	Sheet piling to western end (Balgreen) (Form C)	40d	24-Aug-10	18-Oct-10	439d
5A-11-W8-14(3)	Sheet piling working platform to western end (Balgreen) (Form C)	40d	24-Aug-10	18-Oct-10	439d
5A-11-W8-18(3)	Installation of sheet piling to western end (Balgreen) (WPP)	20d	21-Sep-10	18-Oct-10	439d
5A-11-W8-15(3)	Construction of steep green slope section (WPP)	20d	29-Oct-10	25-Nov-10	40d
5A-11-W8-19(3)	Construction of mod block wall to western end (Balgreen) (WPP)	20d	23-Mar-11	20-Apr-11	40d
5A-11-W8-17(3)	Construction of mod block wall to eastern end (WoL) (WPP)	20d	12-Apr-11	10-May-11	344d
5A-11-W8-20(3)	Construction of NwR Access Road (WPP)	20d	28-Jun-11	25-Jul-11	1d
5A-11-W8-23(3)	Installation of Lower Ballast (WPP)	20d	28-Jun-11	25-Jul-11	1d
5A-11-W8-21(3)	OLE Construction (WPP)	20d	29-Jul-11	26-Aug-11	1d
5A-11-W8-22(3)	Ducting and drainage (WPP)	20d	29-Aug-11	23-Sep-11	1d
5A-11-W8-24(3)	OLE Poles and Cabling (WPP)	20d	22-Dec-11	01-Feb-12	5d
Construction		207d	17-Aug-10	21-Jun-11	40d
5A-11-W8-51(3)	Bulk Excavation	35d	17-Aug-10	04-Oct-10	92d
5A-11-W8-62	Starter Layer	25d	01-Sep-10	05-Oct-10	92d
5A-11-W8-52	Green Slope	57d	20-Dec-10	22-Mar-11	40d
5A-11-W8-53	Pararpet	10d	08-Jun-11	21-Jun-11	40d
Balgreen Road Bridge (S22A)		254d	16-Sep-10	27-Sep-11	287d
Network Rail Submissions & Approval		175d	16-Sep-10	07-Jun-11	64d
5A-11-S22A-12(3)	Bored piling working platform to both abutments (Form C)	40d	16-Sep-10	10-Nov-10	60d
5A-11-S22A-10(3)	Sheet piling to west abutment (Form C)	40d	21-Sep-10	15-Nov-10	40d
5A-11-S22A-11(3)	Sheet piling working platform to west abutment (Form C)	40d	21-Sep-10	15-Nov-10	40d
5A-11-S22A-19(3)	Construction of bridge (WPP)	20d	21-Sep-10	18-Oct-10	60d
5A-11-S22A-27(3)	Mobilise	5d	05-Oct-10	11-Oct-10	40d
5A-11-S22A-16(3)	Installation of bored piling to both abutments (WPP)	20d	14-Oct-10	10-Nov-10	60d
5A-11-S22A-15(3)	Installation of sheet piling to west abutment (WPP)	20d	19-Oct-10	15-Nov-10	40d
5A-11-S22A-17(3)	Construction of mod block wall to west abutment (W9) (WPP)	20d	10-Jan-11	04-Feb-11	82d
5A-11-S22A-13(3)	Mobile crane working platform to place pc beams (Form C)	40d	11-Apr-11	07-Jun-11	64d
5A-11-S22A-14(3)	Edge parapet cantilever formwork (WPP)	20d	10-May-11	07-Jun-11	64d
5A-11-S22A-18(3)	Placing of pc beams (WPP)	20d	10-May-11	07-Jun-11	64d
East Abutment		152d	09-Nov-10	28-Jun-11	351d
5A-11-S22A-130(3)	Sheet Piling & Excavation	17d	09-Nov-10	02-Dec-10	439d
5A-11-S22A-160(3)	Bored Piling / Excavation / Testing	28d	03-Dec-10	25-Jan-11	439d
5A-11-S22A-180(3)	Columns	10d	26-Jan-11	08-Feb-11	439d
5A-11-S22A-190(3)	Reinforced Earth Wall+Backfilling	9d	09-Feb-11	21-Feb-11	439d
5A-11-S22A-220(3)	Access Platform Ret Walls & Reinforced Earth	12d	13-May-11	31-May-11	40d
5A-11-S22A-200(3)	Pile Caps	15d	08-Jun-11	28-Jun-11	64d



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CEC00183919_0101

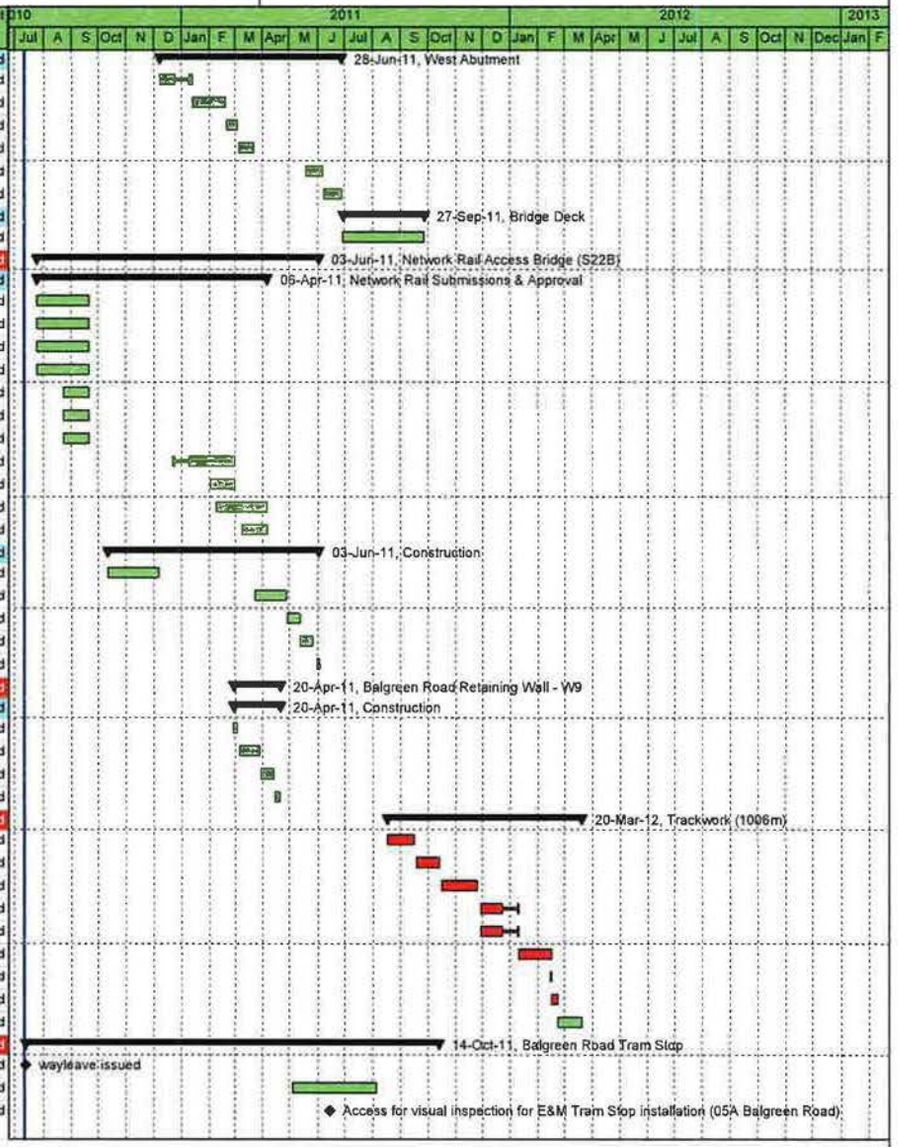
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
West Abutment		132d	08-Dec-10	28-Jun-11	64d
5A-11-S22A-210(3)	Sheet Piling & Excavation	17d	08-Dec-10	13-Jan-11	40d
5A-11-S22A-240(3)	Bored Piling /Excavation / Testing	26d	14-Jan-11	18-Feb-11	40d
5A-11-S22A-260(3)	Columns	10d	21-Feb-11	04-Mar-11	40d
5A-11-S22A-280(3)	Reinforced Earth Wall+Backfilling	12d	07-Mar-11	22-Mar-11	40d
5A-11-S22A-380(3)	Access Platform retaining Wall & Reinforced Earth	12d	20-May-11	07-Jun-11	40d
5A-11-S22A-390(3)	Pile Caps	15d	08-Jun-11	28-Jun-11	64d
Bridge Deck		64d	29-Jun-11	27-Sep-11	64d
5A-11-S22A-290(3)	Bridge Deck	64d	29-Jun-11	27-Sep-11	64d
Network Rail Access Bridge (S22B)		210d	26-Jul-10	03-Jun-11	240d
Network Rail Submissions & Approval		170d	26-Jul-10	06-Apr-11	40d
5A-11-S22B-10(3)	King post wall to east abutment (Form C)	40d	26-Jul-10*	20-Sep-10	40d
5A-11-S22B-11(3)	King post piling working platform to east abutment (Form C)	40d	26-Jul-10*	20-Sep-10	40d
5A-11-S22B-12(3)	Sheet piling to west abutment (Form C)	40d	26-Jul-10*	20-Sep-10	40d
5A-11-S22B-13(3)	Sheet piling working platform to west abutment (Form C)	40d	26-Jul-10*	20-Sep-10	40d
5A-11-S22B-16(3)	Installation of king post wall to east abutment (WPP)	20d	24-Aug-10	20-Sep-10	40d
5A-11-S22B-17(3)	Installation of sheet piling to west abutment (WPP)	20d	24-Aug-10	20-Sep-10	40d
5A-11-S22B-20(3)	Construction of bridge (WPP)	20d	24-Aug-10	20-Sep-10	40d
5A-11-S22B-14(3)	Mobile crane working platform to remove extg bridge (Form C)	40d	22-Dec-10	01-Mar-11	40d
5A-11-S22B-18(3)	Demolition of existing bridge (WPP)	20d	02-Feb-11	01-Mar-11	40d
5A-11-S22B-15(3)	Mobile crane working platform to place pc beams (Form C)	40d	09-Feb-11	06-Apr-11	40d
5A-11-S22B-19(3)	Placing of pc beams (WPP)	20d	09-Mar-11	06-Apr-11	40d
Construction		155d	12-Oct-10	03-Jun-11	240d
5A -11-S22B-10(3)	Sheet Piling	40d	12-Oct-10	07-Dec-10	40d
5A -11-S22B-20(3)	Demolish Existing Bridge Deck / New Cill Beams	25d	23-Mar-11	27-Apr-11	40d
5A -11-S22B-30(3)	New Bridge Deck & Parapets	10d	28-Apr-11	12-May-11	40d
5A -11-S22B-40(3)10	Parapets & Finishes	11d	13-May-11	27-May-11	240d
5A-11-JNCS-70(3)	installation of traffic light control - Junction 202	4d	31-May-11	03-Jun-11	240d
Balgreen Road Retaining Wall - W9		37d	28-Feb-11	20-Apr-11	82d
Construction		37d	28-Feb-11	20-Apr-11	82d
5A-11-W9-110(3)	Foundations	5d	28-Feb-11	04-Mar-11	82d
5A-11-W9-115(3)	Reinforced Earth Wall	17d	07-Mar-11	29-Mar-11	82d
5A-11-W9-120(3)	Coping	10d	30-Mar-11	13-Apr-11	82d
5A-11-W9-125(3)	Handrail	5d	14-Apr-11	20-Apr-11	82d
Trackwork (1006m)		144d	17-Aug-11	20-Mar-12	173d
5A-11-TRCK-30	Prepare Formation & Lower Ballast	23d	17-Aug-11	16-Sep-11	1d
5A-11-TRCK-50	OLE Foundations	20d	19-Sep-11	14-Oct-11	1d
5A-11-TRCK-60	Drainage & ducts	30d	17-Oct-11	25-Nov-11	1d
5A-11-TRCK-40	Upper Ballast	20d	29-Nov-11	09-Jan-12	1d
5A-11-TRCK-45	Track Slab	20d	29-Nov-11	09-Jan-12	1d
5A-11-TRCK-70	Tracklaying (1006m)	27d	10-Jan-12	15-Feb-12	1d
5A-11-SIGN-60	wayside preparation for loops(0) and boxes(4)	2d	14-Feb-12	15-Feb-12	197d
5A-11-TRCK-80	Top Ballast	5d	16-Feb-12	22-Feb-12	1d
5A-11-TRCK-81	Fencing & Finishing	19d	23-Feb-12	20-Mar-12	45d
Balgreen Road Tram Stop		313d	12-Jul-10	14-Oct-11	294d
5A-11-TRMS-20	wayleave issued	0d	12-Jul-10		355d
5A-11-TRMS-90	Civil Engineering and Builders Work	65d	04-May-11	05-Aug-11	166d
5A-11-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05A Balgreen Road)	0d	14-Jun-11		393d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

CEC00183919_0102

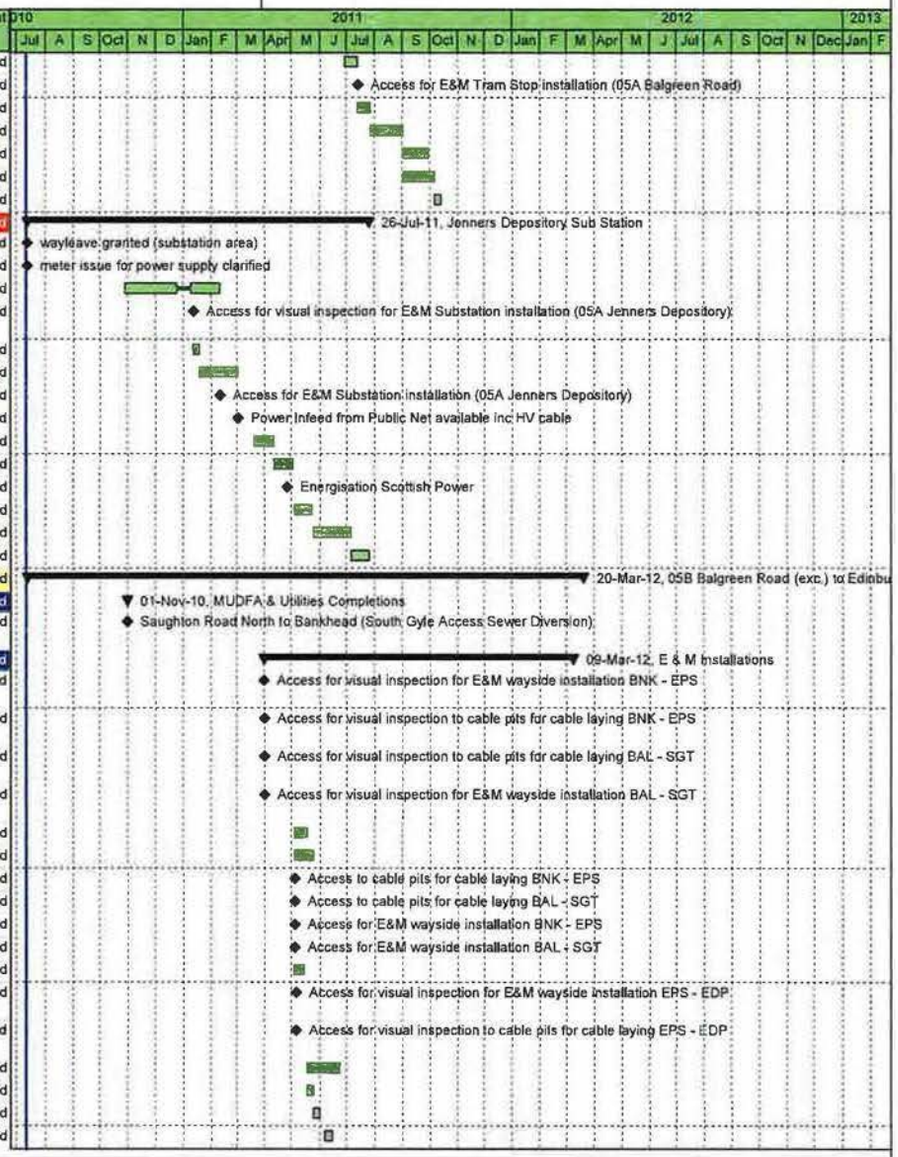
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5A-11-TRMS-40	Deliver and Install Shelter	10d	30-Jun-11	14-Jul-11	166d
5A-11-TRMS-31	Access for E&M Tram Stop installation (05A Balgreen Road)	0d	14-Jul-11		210d
5A-11-TRMS-45	Deliver and Install cubicle	10d	14-Jul-11	28-Jul-11	166d
5A-11-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	28-Jul-11	02-Sep-11	166d
5A-11-TRMS-70	Install Telecon Equipment	20d	02-Sep-11	30-Sep-11	171d
5A-11-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	02-Sep-11	07-Oct-11	166d
5A-11-TRMS-80	Package Test Tramstop	5d	07-Oct-11	14-Oct-11	166d
Jenners Depository Sub Station		257d	12-Jul-10	26-Jul-11	331d
5A-11-SUBS-120	wayleave granted (substation area)	0d		12-Jul-10	291d
5A-11-SUBS-110	meter issue for power supply clarified	0d		12-Jul-10	311d
5A-11-SUBS-90	Civil Engineering and Building Works	65d	28-Oct-10	10-Feb-11	196d
5A-11-SUBS-30	Access for visual inspection for E&M Substation installation (05A Jenners Depository)	0d	12-Jan-11		200d
5B-11-SUBS-100	cable duct for Power Infeed	5d	12-Jan-11	19-Jan-11	196d
5A-11-SUBS-130	installation HV cable	30d	19-Jan-11	02-Mar-11	196d
5A-11-SUBS-31	Access for E&M Substation installation (05A Jenners Deposi...	0d	10-Feb-11		200d
5A-11-SUBS-40	Power Infeed from Public Net available inc HV cable	0d	02-Mar-11		196d
5B-10-SUBS-45	Install HV Power Supply and Equipment (SP)	15d	21-Mar-11	11-Apr-11	183d
5A-11-SUBS-50	Install LV Power Supply and LV Power Equipment	15d	12-Apr-11	03-May-11	203d
5B-11-SUBS-55	Energisation Scottish Power	0d	26-Apr-11		395d
5A-11-SUBS-70	Install Telecom and Scada	15d	04-May-11	24-May-11	203d
5A-11-SUBS-60	Installation of TPS Equipment	30d	25-May-11	06-Jul-11	203d
5A-11-SUBS-80	Testing and Commissioning	14d	07-Jul-11	26-Jul-11	203d
05B Balgreen Road (exc.) to Edinburgh Park Central (inc.)		414d	12-Jul-10	20-Mar-12	174d
MUDFA & Utilities Completions		0d	01-Nov-10	01-Nov-10	46d
5B-09-UTL-10(3)	Saughton Road North to Bankhead (South Gyle Access Sewer Diversion)	0d		01-Nov-10*	46d
E & M Installations		231d	31-Mar-11	09-Mar-12	180d
5B-08-OHLE-30	Access for visual inspection for E&M wayside installation BNK - EPS	0d	31-Mar-11		417d
5B-08-ELEC-30	Access for visual inspection to cable pits for cable laying BNK - EPS	0d	31-Mar-11		417d
5B-10-ELEC-30	Access for visual inspection to cable pits for cable laying BAL - SGT	0d	31-Mar-11		431d
5B-10-OHLE-30	Access for visual inspection for E&M wayside installation BAL - SGT	0d	31-Mar-11		431d
5B-09/10-OHLE-50	Installation of poles and building fixings -14 (52 0535 - 52 20...	10d	04-May-11	18-May-11	245d
5B-08-SIGN-40	Installation of SIG-interlocking cubicle EPS	15d	04-May-11	25-May-11	261d
5B-08-ELEC-31	Access to cable pits for cable laying BNK - EPS	0d	04-May-11		246d
5B-10-ELEC-31	Access to cable pits for cable laying BAL - SGT	0d	04-May-11		268d
5B-08-OHLE-31	Access for E&M wayside installation BNK - EPS	0d	04-May-11		233d
5B-10-OHLE-31	Access for E&M wayside installation BAL - SGT	0d	04-May-11		222d
5B-08-ELEC-60	Install Electrical Cables BNK - EPS	8d	04-May-11	16-May-11	259d
5B-07-OHLE-30	Access for visual inspection for E&M wayside installation EPS - EDP	0d	05-May-11		397d
5B-07-ELEC-30	Access for visual inspection to cable pits for cable laying EPS - EDP	0d	05-May-11		397d
5B-09/10-OHLE-60	Overhead Catenary Line -14 (52 0535 - 52 2032)	26d	18-May-11	24-Jun-11	245d
5B-08-SIGN-90	installation of SIG equipment on crossover EPS	5d	18-May-11	25-May-11	261d
5B-08-SIGN-80	Commissioning of SIG-interlocking cubicle EPS	5d	25-May-11	01-Jun-11	261d
5B-07-ELEC-60	Install Electrical Cables EPS - EDP	7d	07-Jun-11	16-Jun-11	240d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0103

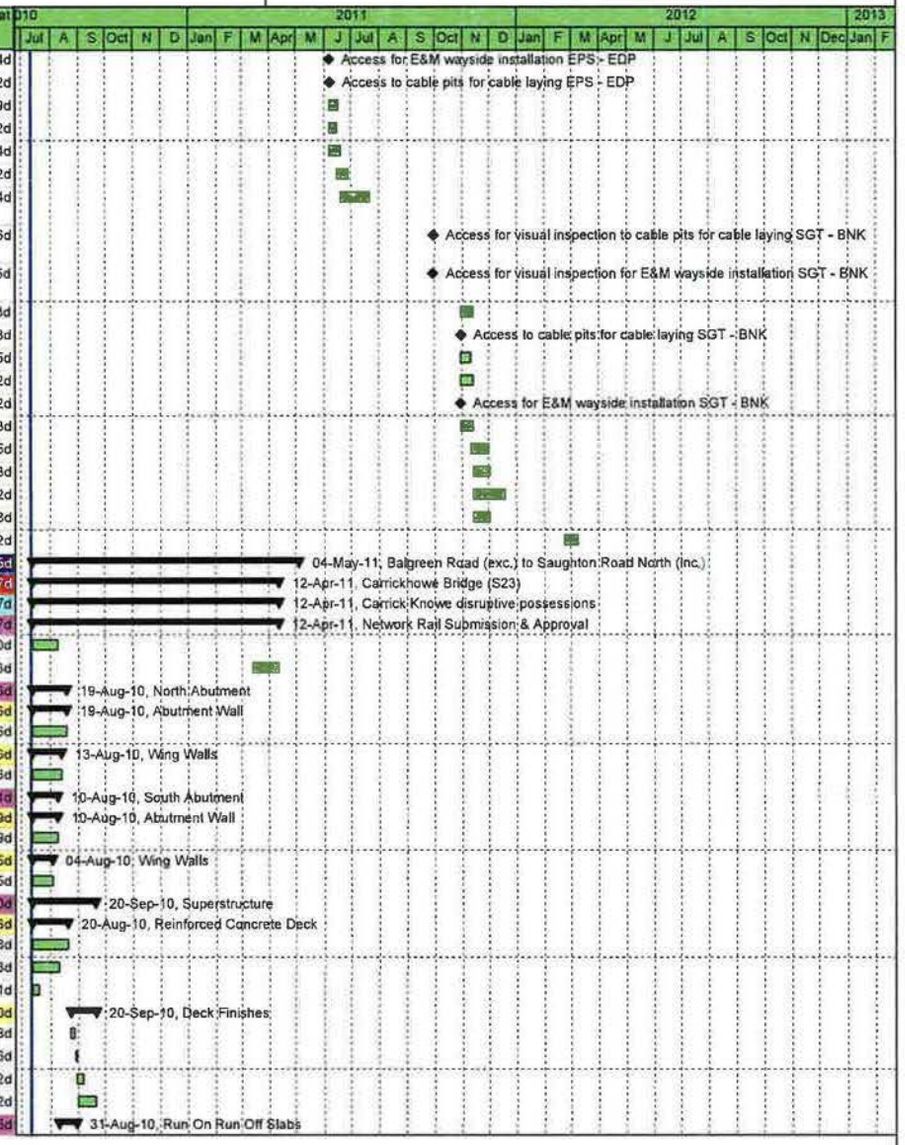
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5B-07-OHLE-31	Access for E&M wayside installation EPS - EDP	0d	07-Jun-11		214d
5B-07-ELEC-31	Access to cable pits for cable laying EPS - EDP	0d	07-Jun-11		232d
5B-07/08-TELC-60	Install Fibre Optic Cables BNK - EPS - EDP	8d	07-Jun-11	17-Jun-11	239d
5B-07-SGNW-60	Install Signalling Wayside Equipment EPS - EDP	7d	07-Jun-11	16-Jun-11	232d
5B-07/08-OHLE-50	Installation of poles and building fixings -16 (52 3059- 52 4464)	9d	07-Jun-11	20-Jun-11	214d
5B-08-SGNW-60	Install Signalling Wayside Equipment BNK - EPS	8d	16-Jun-11	28-Jun-11	232d
5B-07/08-OHLE-60	Overhead Catenary Line -16 (52 3059 - 52 4464 + 52 3621 - 52 3696)	24d	20-Jun-11	22-Jul-11	214d
5B-09-ELEC-30	Access for visual inspection to cable pits for cable laying SGT - BNK	0d	29-Sep-11		286d
5B-09-OHLE-30	Access for visual inspection for E&M wayside installation SGT - BNK	0d	29-Sep-11		286d
5B-09-SGNW-60	Install Signalling Wayside Equipment SGT - BNK	10d	31-Oct-11	14-Nov-11	113d
5B-09-ELEC-31	Access to cable pits for cable laying SGT - BNK	0d	31-Oct-11		113d
5B-08/09-TELC-60	Install Fibre Optic Cables SGT - BNK - EPS	9d	31-Oct-11	11-Nov-11	115d
5B-08/09-OHLE-50	Installation of poles and building fixings -15 (52 1827 - 52 32...	10d	31-Oct-11	14-Nov-11	102d
5B-09-OHLE-31	Access for E&M wayside installation SGT - BNK	0d	31-Oct-11		102d
5B-09-ELEC-60	Install Electrical Cables SGT - BNK	10d	31-Oct-11	14-Nov-11	113d
5B-09/10-TELC-60	Install Fibre Optic Cables BAL - SGT - BNK	12d	11-Nov-11	30-Nov-11	115d
5B-10-SGNW-60	Install Signalling Wayside Equipment BAL - SGT	13d	14-Nov-11	02-Dec-11	113d
5B-08/09-OHLE-60	Overhead Catenary Line -15 (52 1827 - 52 3273)	24d	14-Nov-11	19-Dec-11	102d
5B-10-ELEC-60	Install Electrical Cables BAL - SGT	13d	14-Nov-11	02-Dec-11	113d
5B-10/11-TELC-60	Install Fibre Optic Cables MUS - BAL - SGT	12d	23-Feb-12	09-Mar-12	52d
Balgreen Road (exc.) to Saughton Road North (inc.)		198d	12-Jul-10	04-May-11	405d
Carricknowe Bridge (S23)		183d	12-Jul-10	12-Apr-11	277d
Carrick Knowe disruptive possessions		183d	12-Jul-10	12-Apr-11	277d
Network Rail Submission & Approval		183d	12-Jul-10	12-Apr-11	257d
5B-10-S23-10(3)	Steel Pedestrian Parapet WPP	20d	12-Jul-10	09-Aug-10	420d
5B-10-S23-11(3)	OLE Poles and Cabling WPP	20d	14-Mar-11	12-Apr-11	226d
North Abutment		28d	12-Jul-10	19-Aug-10	416d
Abutment Wall		28d	12-Jul-10	19-Aug-10	416d
5B-10-S23-55N(3)	Bearing Gallery	28d	12-Jul-10	19-Aug-10	416d
Wing Walls		24d	12-Jul-10	13-Aug-10	166d
5B-10-S23-76N	Parapet Beams	24d	12-Jul-10	13-Aug-10	166d
South Abutment		21d	12-Jul-10	10-Aug-10	431d
Abutment Wall		21d	12-Jul-10	10-Aug-10	419d
5B-10-S23-56S(3)	Bearing Gallery	21d	12-Jul-10	10-Aug-10	419d
Wing Walls		17d	12-Jul-10	04-Aug-10	435d
5B-10-S23-76S	Parapet Beams	17d	12-Jul-10	04-Aug-10	435d
Superstructure		50d	12-Jul-10	20-Sep-10	410d
Reinforced Concrete Deck		29d	12-Jul-10	20-Aug-10	426d
5B-10-S23-68	North Diaphragm	29d	12-Jul-10	20-Aug-10	418d
5B-10-S23-67	South Diaphragm	22d	12-Jul-10	11-Aug-10	433d
5B-10-S23-66	Parapet Beam	6d	12-Jul-10	19-Jul-10	441d
Deck Finishes		19d	24-Aug-10	20-Sep-10	410d
5B-10-S23-82	Waterproofing (inc. deck curing)	3d	24-Aug-10*	27-Aug-10	438d
5B-10-S23-80	Expansion Joints	2d	30-Aug-10	31-Aug-10	416d
5B-10-S23-81	Parapet Rails	5d	30-Aug-10	07-Sep-10	442d
5B-10-S23-83	Walkway Constructon	12d	01-Sep-10*	20-Sep-10	322d
Run On Run Off Slabs		15d	11-Aug-10	31-Aug-10	416d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0104

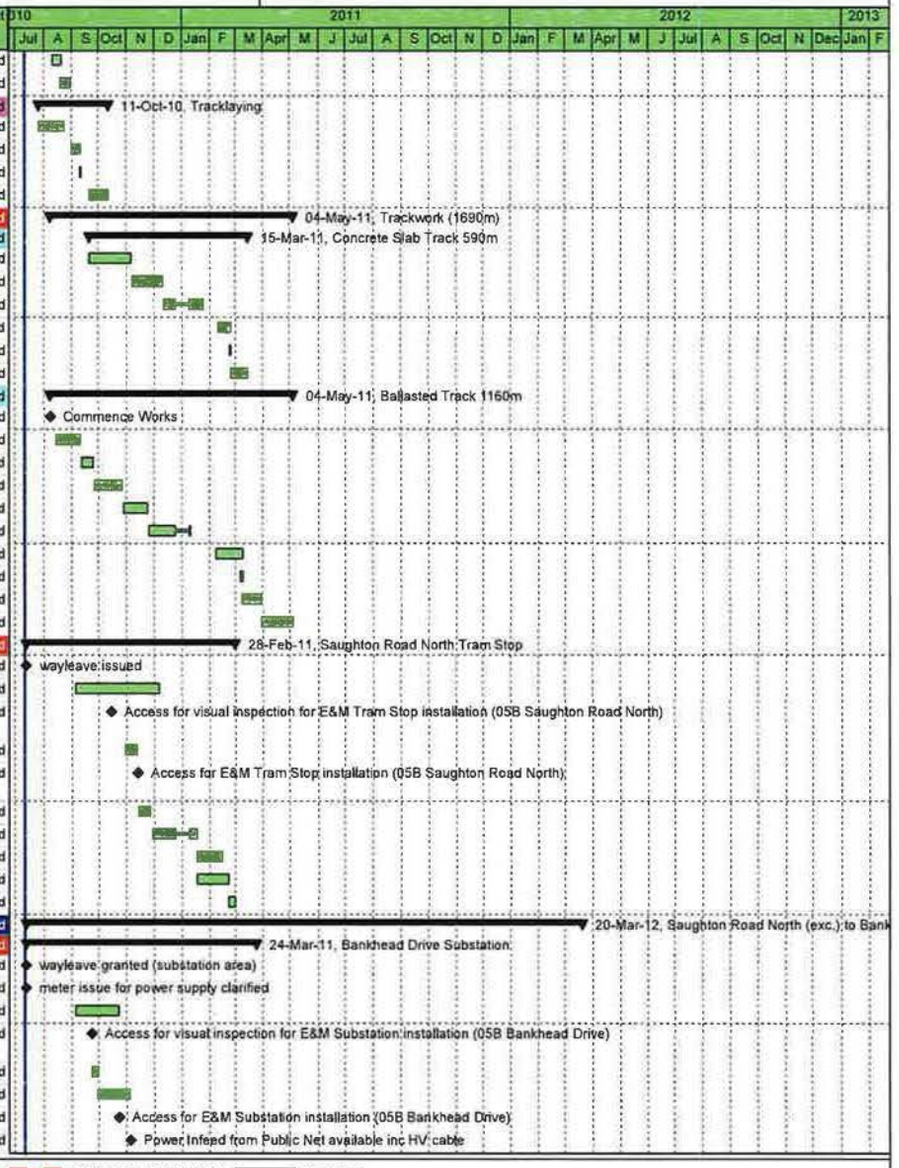
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5B-10-S23-71	Backfill and cast slab south	8d	11-Aug-10	20-Aug-10	419d
5B-10-S23-70	Backfill and cast slab north	8d	20-Aug-10	31-Aug-10	416d
Tracklaying		54d	27-Jul-10	11-Oct-10	395d
5B-10B-S23-84	Containment Slabs	20d	27-Jul-10*	24-Aug-10	421d
5B-10B-TRCK-70	Fix Rails	8d	01-Sep-10	10-Sep-10	416d
5B-10C-SIGN-600	wayside preparation for loops(0) and boxes(2)	1d	10-Sep-10	10-Sep-10	416d
5B-10-S23-85	Drainage	15d	21-Sep-10	11-Oct-10	395d
Trackwork (1690m)		179d	09-Aug-10	04-May-11	281d
Concrete Slab Track 590m		114d	21-Sep-10	15-Mar-11	309d
5B-10C-TRCK-30	Earthworks- Subbase	34d	21-Sep-10	05-Nov-10	309d
5B-10C-TRCK-40	OLE Foundations - Drainage - Ducts	24d	08-Nov-10	10-Dec-10	309d
5B-10C-TRCK-41(3)	Additional Drainage	21d	13-Dec-10	24-Jan-11	309d
5B-10C-TRCK-70	Track laying	10d	11-Feb-11	25-Feb-11	309d
5B-10C-SIGN-60	wayside preparation for loops(0) and boxes(3)	2d	23-Feb-11	25-Feb-11	321d
5B-10C-TRCK-80	Fencing & Finishes	12d	25-Feb-11	15-Mar-11	309d
Ballasted Track 1160m		179d	09-Aug-10	04-May-11	281d
5B-10A--TRCK-01(3)	Commence Works	0d	09-Aug-10*		171d
5B-10A-TRCK-30	Earthworks - Subbase	20d	16-Aug-10	10-Sep-10	166d
5B-10A-TRCK-31(3)	Additional Earthworks	10d	13-Sep-10	24-Sep-10	166d
5B-10A-TRCK-50	OLE Foundations - Drainage	23d	27-Sep-10	27-Oct-10	166d
5B-10A-TRCK-60	Additional Drainage	20d	28-Oct-10	24-Nov-10	166d
5B-10A-TRCK-40	Bottom Ballast - Ducts	23d	25-Nov-10	11-Jan-11	166d
5B-10A-TRCK-70	Track laying (1160m)	21d	08-Feb-11	09-Mar-11	166d
5B-10A-SIGN-60	wayside preparation for loops(0) and boxes(§)	2d	07-Mar-11	09-Mar-11	319d
5B-10A-TRCK-76	Top Ballast	15d	09-Mar-11	30-Mar-11	166d
5B-10A-TRCK-80	Fencing & Trackside Finishes	23d	30-Mar-11	04-May-11	166d
Saughton Road North Tram Stop		154d	12-Jul-10	28-Feb-11	434d
5B-10-TRMS-20	wayleave issued	0d	12-Jul-10		315d
5B-10-TRMS-90	Civil Engineering and Building Works	65d	06-Sep-10*	06-Dec-10	266d
5B-10-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05B Saughton Road North)	0d	14-Oct-10		547d
5B-10-TRMS-40	Deliver and Install Shelter	10d	01-Nov-10	12-Nov-10	266d
5B-10-TRMS-31	Access for E&M Tram Stop installation (05B Saughton Road North)	0d	12-Nov-10		342d
5B-10-TRMS-45	Deliver and Install cubicle	10d	15-Nov-10	26-Nov-10	266d
5B-10-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	30-Nov-10	17-Jan-11	306d
5B-10-TRMS-70	Install Telecon Equipment	20d	18-Jan-11	14-Feb-11	311d
5B-10-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	18-Jan-11	21-Feb-11	306d
5B-10-TRMS-80	Package Test Tramstop	5d	22-Feb-11	28-Feb-11	306d
Saughton Road North (exc.) to Bankhead (inc.)		414d	12-Jul-10	20-Mar-12	174d
Bankhead Drive Substation		171d	12-Jul-10	24-Mar-11	417d
5B-09-SUBS-110	wayleave granted (substation area)	0d		12-Jul-10	296d
5B-09-SUBS-120	meter issue for power supply clarified	0d		12-Jul-10	311d
5B-09-SUBS-90	Civil Engineering and Building Works	35d	06-Sep-10*	22-Oct-10	269d
5B-09-SUBS-30	Access for visual inspection for E&M Substation installation (05B Bankhead Drive)	0d	23-Sep-10		284d
5B-09-SUBS-100	cable duct for Power Infeed	5d	23-Sep-10	30-Sep-10	269d
5B-09-SUBS-130	installation HV cable	25d	30-Sep-10	04-Nov-10	269d
5B-09-SUBS-31	Access for E&M Substation installation (05B Bankhead Drive)	0d	22-Oct-10		284d
5B-09-SUBS-40	Power Infeed from Public Net available inc HV cable	0d	04-Nov-10		269d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work | Critical Remaining Work | Summary | Actual Work | Milestone

CEC00183919_0105

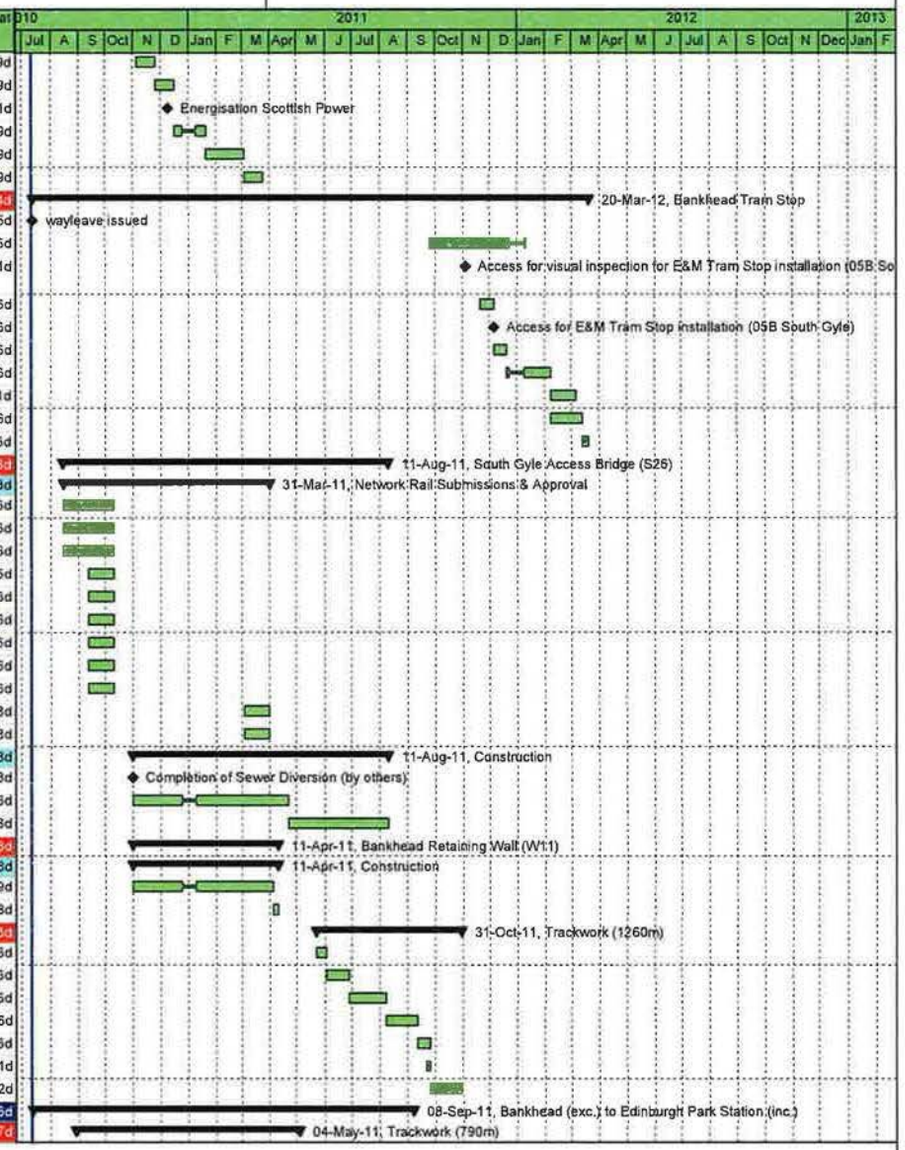
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5B-09-SUBS-45	Install HV Power Supply and Equipment (SP)	15d	04-Nov-10	25-Nov-10	269d
5B-09-SUBS-50	Install LV Power Supply and LV Power Equipment	15d	25-Nov-10	17-Dec-10	289d
5B-09-SUBS-55	Energisation Scottish Power	0d	10-Dec-10		481d
5B-09-SUBS-70	Install Telecom and Scada	15d	17-Dec-10	21-Jan-11	289d
5B-09-SUBS-60	Installation of TPS Equipment	30d	21-Jan-11	04-Mar-11	289d
5B-09-SUBS-80	Testing and Commissioning	14d	04-Mar-11	24-Mar-11	289d
Bankhead Tram Stop		414d	12-Jul-10	20-Mar-12	174d
5B-09-TRMS-20	wayleave issued	0d	12-Jul-10		355d
5B-09-TRMS-90	Civil Engineering and Building Works	65d	26-Sep-11	10-Jan-12	46d
5B-09-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05B South Gyle)	0d	04-Nov-11		271d
5B-09-TRMS-40	Deliver and Install Shelter	10d	21-Nov-11	06-Dec-11	46d
5B-09-TRMS-31	Access for E&M Tram Stop installation (05B South Gyle)	0d	06-Dec-11		66d
5B-09-TRMS-45	Deliver and Install cubicle	10d	06-Dec-11	20-Dec-11	46d
5B-09-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	20-Dec-11	07-Feb-12	46d
5B-09-TRMS-70	Install Telecon Equipment	20d	07-Feb-12	06-Mar-12	51d
5B-09-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	07-Feb-12	13-Mar-12	46d
5B-09-TRMS-80	Package Test Tramstop	5d	13-Mar-12	20-Mar-12	46d
South Gyle Access Bridge (S26)		243d	16-Aug-10	11-Aug-11	68d
Network Rail Submissions & Approval		152d	16-Aug-10	31-Mar-11	68d
5B-09-S26-11	Sheet piling working platform to toe of embankment (Form C)	40d	16-Aug-10	11-Oct-10	46d
5B-09-S26-12	Bored piling working platform to abutments (Form C)	40d	16-Aug-10	11-Oct-10	46d
5B-09-S26-13	Mobile crane working platform to place pc beams (Form C)	40d	16-Aug-10	11-Oct-10	46d
5B-09-S26-10	Sheet piling along toe of embankment (WPP)	20d	13-Sep-10	11-Oct-10	46d
5B-09-S26-15	Installation of sheet piling to toe of embankment (WPP)	20d	13-Sep-10	11-Oct-10	46d
5B-09-S26-16	Installation of bored piling to abutments (WPP)	20d	13-Sep-10	11-Oct-10	46d
5B-09-S26-17	Construction of abutments (WPP)	20d	13-Sep-10	11-Oct-10	46d
5B-09-S26-18	Construction of mod block wall to abutments (W11) (WPP)	20d	13-Sep-10	11-Oct-10	46d
5B-09-S26-20	Construction of bridge (WPP)	20d	13-Sep-10	11-Oct-10	46d
5B-09-S26-14	Edge parapet cantilever formwork (WPP)	20d	03-Mar-11	31-Mar-11	68d
5B-09-S26-19	Placing of pc beams (WPP)	20d	03-Mar-11	31-Mar-11	68d
Construction		188d	31-Oct-10	11-Aug-11	68d
5B-09-S26-100	Completion of Sewer Diversion (by others)	0d		31-Oct-10*	68d
5B-09-S26-90	Substructure	112d	01-Nov-10	22-Apr-11	46d
5B-09-S26-91	Superstructure	76d	22-Apr-11	11-Aug-11	68d
Bankhead Retaining Wall (W11)		103d	01-Nov-10	11-Apr-11	278d
Construction		103d	01-Nov-10	11-Apr-11	278d
5B-09-W11-100	Retaining Wall Construction	99d	01-Nov-10	05-Apr-11	79d
5B-09-JNCS-60	installation of traffic light control - Junction 202B-2	4d	05-Apr-11	11-Apr-11	278d
Trackwork (1260m)		113d	23-May-11	31-Oct-11	136d
5B-09-TRCK-30	Earthworks and Subbase	8d	23-May-11	03-Jun-11	46d
5B-09-TRCK-40(3)	Additional Earthworks	17d	03-Jun-11	28-Jun-11	46d
5B-09-TRCK-50	OLE Foundations - Drainage - Ducts	28d	28-Jun-11	08-Aug-11	46d
5B-09-TRCK-60(3)	Additional Drainage	25d	08-Aug-11	12-Sep-11	46d
5B-09-TRCK-70	Track laying (1260m) + mob	10d	12-Sep-11	26-Sep-11	46d
5B-09-SIGN-60	wayside preparation for loops(0) and boxes(6)	3d	21-Sep-11	26-Sep-11	161d
5B-09-TRCK-80	Fencing & Trackside Finishes	25d	26-Sep-11	31-Oct-11	102d
Bankhead (exc.) to Edinburgh Park Station (inc.)		287d	12-Jul-10	08-Sep-11	305d
Trackwork (790m)		164d	30-Aug-10	04-May-11	267d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0106

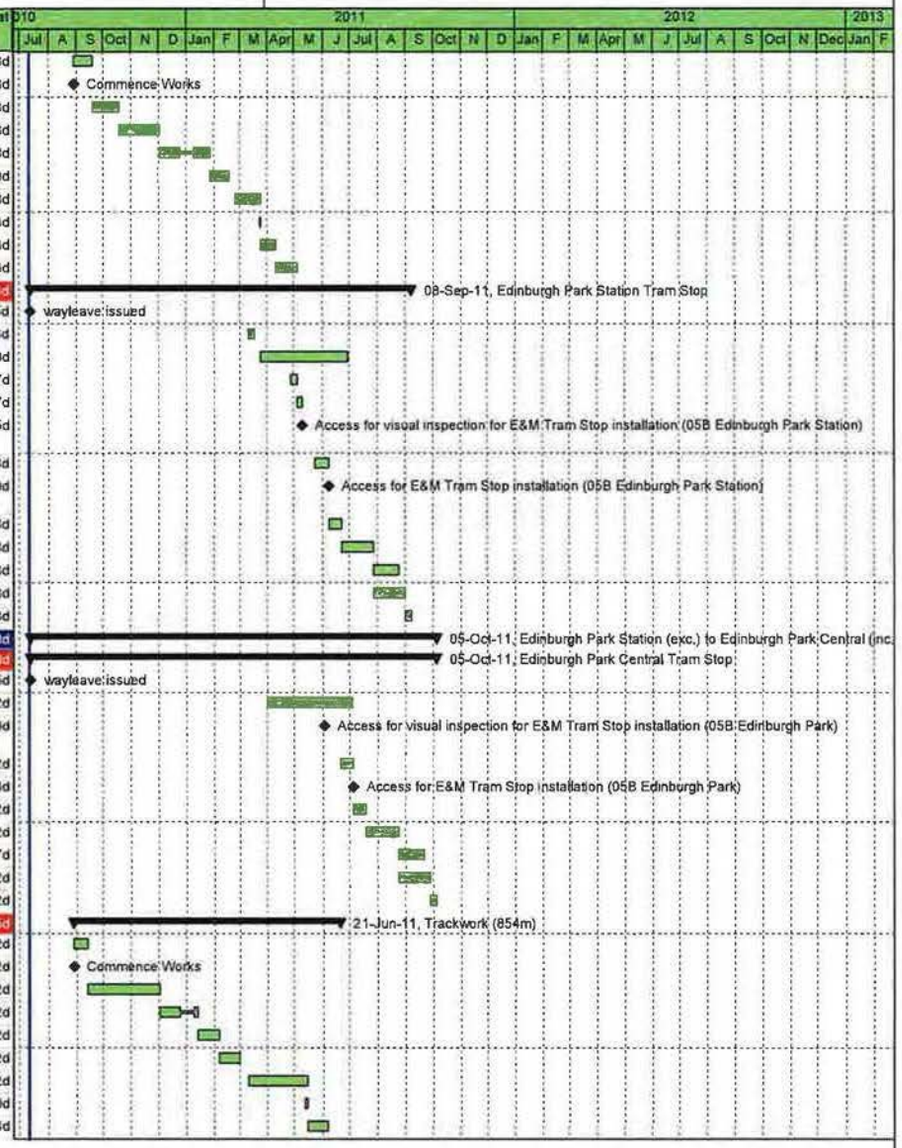
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5B-08-TRCK-30	Earthworks and Subbase	15d	30-Aug-10	20-Sep-10	178d
5B-08-TRCK-01(3)	Commence Works	0d	30-Aug-10*		178d
5B-08-TRCK-31(3)	Additional Earthworks	21d	20-Sep-10	19-Oct-10	178d
5B-08-TRCK-50	OLE Foundations - Drainage	32d	19-Oct-10	03-Dec-10	178d
5B-08-TRCK-51	Additional drainage	29d	03-Dec-10	27-Jan-11	178d
5B-08-TRCK-40	Ducts and Bottom Ballast	16d	27-Jan-11	18-Feb-11	178d
5B-08-TRCK-70	Track laying (790m)	20d	25-Feb-11	25-Mar-11	178d
5B-08-SIGN-60	wayside preparation for loops(0) and boxes(4)	2d	23-Mar-11	25-Mar-11	293d
5B-08-TRCK-76	Top Ballast [52 2917 - 52 3526]	10d	25-Mar-11	11-Apr-11	233d
5B-08-TRCK-80	Fencing and Trackside finishes	16d	11-Apr-11	04-May-11	233d
Edinburgh Park Station Tram Stop		267d	12-Jul-10	08-Sep-11	309d
5B-08-TRMS-20	wayleave issued	0d	12-Jul-10		355d
5B-08-SIG-80	Commissioning of SIG -interlocking cubicle	5d	11-Mar-11	18-Mar-11	313d
5B-08-TRMS-90	Civil Engineering and Builderworks	65d	25-Mar-11	29-Jun-11	178d
5B-07-JNCS-60	installation of traffic light control - Junction 203	4d	27-Apr-11	04-May-11	267d
5B-08-JNCS-60	installation of traffic light control - Junction 203A	4d	04-May-11	10-May-11	267d
5B-08-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05B Edinburgh Park Station)	0d	09-May-11		405d
5B-08-TRMS-40	Deliver and Install Shelter	10d	24-May-11	08-Jun-11	178d
5B-08-TRMS-31	Access for E&M Tram Stop installation (05B Edinburgh Park Station)	0d	08-Jun-11		200d
5B-08-TRMS-45	Deliver and Install cubicle	10d	08-Jun-11	22-Jun-11	178d
5B-08-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	22-Jun-11	27-Jul-11	178d
5B-08-TRMS-70	Install Telecon Equipment	20d	27-Jul-11	25-Aug-11	183d
5B-08-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	27-Jul-11	01-Sep-11	178d
5B-08-TRMS-80	Package Test Tramstop	5d	01-Sep-11	08-Sep-11	178d
Edinburgh Park Station (exc.) to Edinburgh Park Central (inc.)		306d	12-Jul-10	05-Oct-11	290d
Edinburgh Park Central Tram Stop		306d	12-Jul-10	05-Oct-11	290d
5B-07-TRMS-20	wayleave issued	0d	12-Jul-10		355d
5B-07-TRMS-90	Civil Engineering and Building Works	65d	31-Mar-11	05-Jul-11	162d
5B-07-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05B Edinburgh Park)	0d	03-Jun-11		389d
5B-07-TRMS-40	Deliver and Install Shelter	10d	21-Jun-11	05-Jul-11	162d
5B-07-TRMS-31	Access for E&M Tram Stop installation (05B Edinburgh Park)	0d	05-Jul-11		184d
5B-07-TRMS-45	Deliver and Install cubicle	10d	05-Jul-11	19-Jul-11	162d
5B-07-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	19-Jul-11	24-Aug-11	162d
5B-07-TRMS-70	Install Telecon Equipment	20d	24-Aug-11	21-Sep-11	167d
5B-07-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	24-Aug-11	28-Sep-11	162d
5B-07-TRMS-80	Package Test Tramstop	5d	28-Sep-11	05-Oct-11	162d
Trackwork (854m)		197d	30-Aug-10	21-Jun-11	365d
5B-07-TRCK-30	Earthworks- Subbase	11d	30-Aug-10	14-Sep-10	162d
5B-07--TRCK-01(3)	Commence Works	0d	30-Aug-10*		162d
5B-07-TRCK-31(3)	Additional Earthworks	57d	14-Sep-10	03-Dec-10	162d
5B-07-TRCK-50	OLE Foundations - Drainage	19d	03-Dec-10	13-Jan-11	162d
5B-07-TRCK-51(3)	Additional Drainage	17d	13-Jan-11	07-Feb-11	162d
5B-07-TRCK-40	Track Formation - Ducts	16d	07-Feb-11	01-Mar-11	162d
5B-07-TRCK-70	Track laying (854m)	44d	11-Mar-11	16-May-11	162d
5B-07-SIGN-60	wayside preparation for loops(0) and boxes(4)	2d	12-May-11	16-May-11	390d
5B-07-TRCK-80	Track Finishes	15d	16-May-11	07-Jun-11	214d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0107

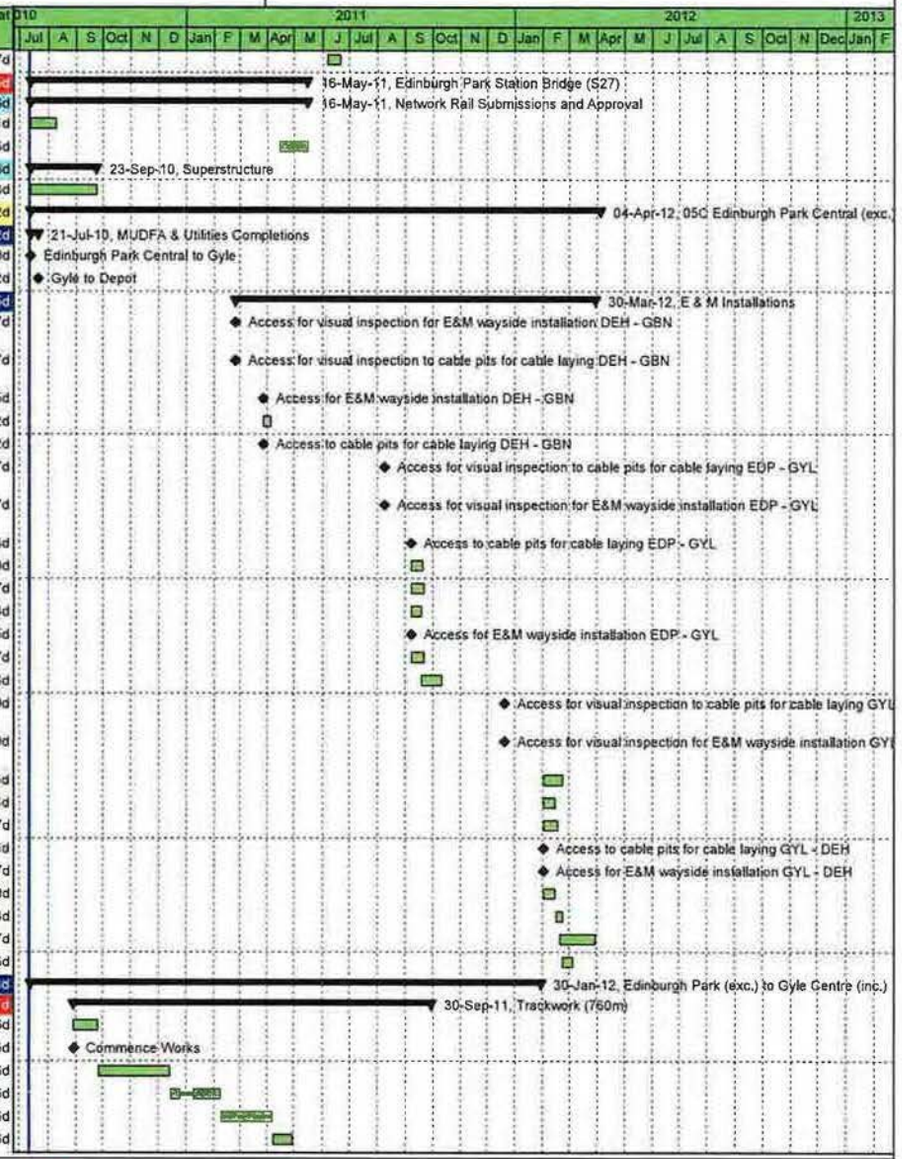
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5B-07-TRCK-81	Fencing	10d	07-Jun-11	21-Jun-11	237d
Edinburgh Park Station Bridge (S27)		206d	12-Jul-10	16-May-11	206d
Network Rail Submissions and Approval		206d	12-Jul-10	16-May-11	206d
5B-07-S27-10	Installation of Rails	20d	12-Jul-10	09-Aug-10	281d
5B-07-S27-11	OLE Poles and Cabling	20d	15-Apr-11	16-May-11	206d
Superstructure		53d	12-Jul-10	23-Sep-10	263d
5B-07-S27-80	Bridge Finishes	53d	12-Jul-10	23-Sep-10	263d
05C Edinburgh Park Central (exc.) to Gogarburn (Inc.)		426d	12-Jul-10	04-Apr-12	162d
MUDFA & Utilities Completions		8d	12-Jul-10	21-Jul-10	132d
5C-06-UTL-10(3)	Edinburgh Park Central to Gyle	0d		12-Jul-10*	140d
5C-03-UTL-10(3)	Gyle to Depot	0d		21-Jul-10*	132d
E & M Installations		272d	24-Feb-11	30-Mar-12	165d
5C-02-OHLE-40	Access for visual inspection for E&M wayside installation DEH - GBN	0d	24-Feb-11		437d
5C-02-ELEC-40	Access for visual inspection to cable pits for cable laying DEH - GBN	0d	24-Feb-11		437d
5C-02-OHLE-41	Access for E&M wayside installation DEH - GBN	0d	28-Mar-11		245d
5C-02-ELEC-70	Install Electrical Cables DEH - GBN	6d	28-Mar-11	05-Apr-11	272d
5C-02-ELEC-41	Access to cable pits for cable laying DEH - GBN	0d	28-Mar-11		272d
5C-06-ELEC-30	Access for visual inspection to cable pits for cable laying EDP - GYL	0d	09-Aug-11		347d
5C-06-OHLE-30	Access for visual inspection for E&M wayside installation EDP - GYL	0d	09-Aug-11		347d
5C-06-ELEC-31	Access to cable pits for cable laying EDP - GYL	0d	08-Sep-11		174d
5C-06/07-TELC-60	Install Fibre Optic Cables EPS - EDP - GYL	8d	08-Sep-11*	20-Sep-11	189d
5C-06-SGNW-60	Install Signalling Wayside Equipment EDP - GYL	10d	08-Sep-11	22-Sep-11	187d
5C-06/07-OHLE-50	Installation of poles and building fixings -17 (52 4265 - 53 05...	7d	08-Sep-11*	19-Sep-11	174d
5C-06-OHLE-31	Access for E&M wayside installation EDP - GYL	0d	08-Sep-11		155d
5C-06-ELEC-60	Install Electrical Cables EDP - GYL	10d	08-Sep-11	22-Sep-11	187d
5C-06/07-OHLE-60	Overhead Catenary Line -17 (52 4265 - 53 0590)	16d	19-Sep-11	11-Oct-11	174d
5C-03-ELEC-30	Access for visual inspection to cable pits for cable laying GYL - DEH	0d	20-Dec-11		229d
5C-03-OHLE-30	Access for visual inspection for E&M wayside installation GYL - DEH	0d	20-Dec-11		229d
5C-01/03/06-TELC-60	Install Fibre Optic Cables EDP - GYL - DEH + DEP	15d	02-Feb-12	22-Feb-12	56d
5C-03-SGNW-60	Install Signalling Wayside Equipment GYL - DEH	9d	02-Feb-12	14-Feb-12	64d
5C-02/03/06-OHLE-50	Installation of poles and building fixings -18 (53 0456 - 53 17 ...	12d	02-Feb-12	17-Feb-12	37d
5C-03-ELEC-31	Access to cable pits for cable laying GYL - DEH	0d	02-Feb-12		56d
5C-03-OHLE-31	Access for E&M wayside installation GYL - DEH	0d	02-Feb-12		37d
5C-03-ELEC-60	Install Electrical Cables GYL - DEH	9d	02-Feb-12	14-Feb-12	70d
5C-02-SGNW-70	Install Signalling Wayside Equipment DEH - GBN	6d	15-Feb-12	22-Feb-12	64d
5C-02/03/06-OHLE-60	Overhead Catenary Line -18 (53 0456 - 53 1749)	30d	20-Feb-12	30-Mar-12	37d
5C-02/03-TELC-60	Install Fibre Optic Cables GYL - DEH - GBN	8d	23-Feb-12	05-Mar-12	56d
Edinburgh Park (exc.) to Gyle Centre (inc.)		378d	12-Jul-10	30-Jan-12	234d
Trackwork (760m)		269d	30-Aug-10	30-Sep-11	187d
5C-06-TRCK-30	Earthworks and Subbase	20d	30-Aug-10	24-Sep-10	106d
5C-06-TRCK-25	Commence Works	0d	30-Aug-10*		106d
5C-06-TRCK-31(3)	Additional Earthworks	56d	27-Sep-10	14-Dec-10	106d
5C-06-TRCK-50	OLE Foundations - Drainage	30d	15-Dec-10	08-Feb-11	106d
5C-06-TRCK-60	Additional Drainage	40d	09-Feb-11	06-Apr-11	106d
5C-06-TRCK-40	Track Formation and Ducts	16d	07-Apr-11	28-Apr-11	106d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0108

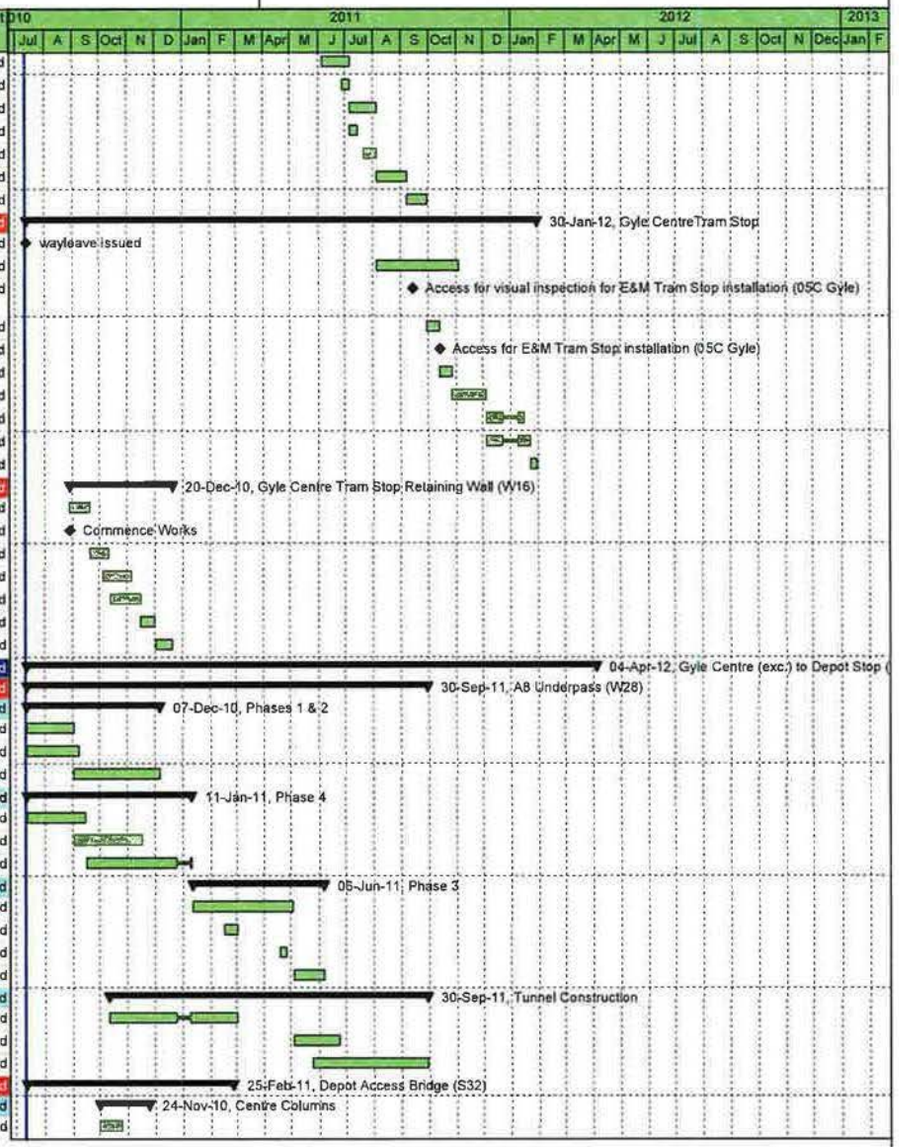
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5C-06-TRCK-90	Road Crossings + mob (track laying activities only)	23d	06-Jun-11	07-Jul-11	106d
5C-06-JNCS-70	installation of traffic light control - Junction 205	7d	28-Jun-11	07-Jul-11	241d
5C-06-TRCK-70	Track laying (760m)	20d	07-Jul-11	05-Aug-11	106d
5C-06-JNCS-60	installation of traffic light control - Junction 204	6d	07-Jul-11	15-Jul-11	241d
5C-06-SIGN-60	wayside preparation for loops(1) and boxes(15)	9d	22-Jul-11	05-Aug-11	221d
5C-06-TRCK-80	Track Finishes	24d	05-Aug-11	08-Sep-11	155d
5C-06-TRCK-81	Fencing	16d	08-Sep-11	30-Sep-11	181d
Gyle CentreTram Stop		**378d**	**12-Jul-10**	**30-Jan-12**	**234d**
5C-06-TRMS-20	wayleave issued	0d	12-Jul-10		355d
5C-06-TRMS-90	Civil Engineering and Building Works	65d	05-Aug-11	04-Nov-11	106d
5C-06-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05C Gyle)	0d	14-Sep-11		332d
5C-06-TRMS-40	Deliver and Install Shelter	10d	30-Sep-11	14-Oct-11	106d
5C-06-TRMS-31	Access for E&M Tram Stop installation (05C Gyle)	0d	14-Oct-11		127d
5C-06-TRMS-45	Deliver and Install cubicle	10d	14-Oct-11	28-Oct-11	106d
5C-06-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	28-Oct-11	05-Dec-11	106d
5C-06-TRMS-70	Install Telecon Equipment	20d	05-Dec-11	16-Jan-12	111d
5C-06-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	05-Dec-11	23-Jan-12	106d
5C-06-TRMS-80	Package Test Tramstop	5d	23-Jan-12	30-Jan-12	106d
Gyle Centre Tram Stop Retaining Wall (W16)		**80d**	**30-Aug-10**	**20-Dec-10**	**346d**
5C-06-W16-111(3)	Temporary Works	16d	30-Aug-10	20-Sep-10	115d
5C-06-W16-110(3)	Commence Works	0d	30-Aug-10*		115d
5C-06-W16-112(3)	Excavation	16d	21-Sep-10	12-Oct-10	115d
5C-06-W16-113(3)	Base Construction	24d	05-Oct-10	05-Nov-10	115d
5C-06-W16-114(3)	Wall Construction	24d	13-Oct-10	15-Nov-10	115d
5C-06-W16-115(3)	Drainage & Backfill	11d	16-Nov-10	01-Dec-10	115d
5C-06-W16-116(3)	Finishes	13d	02-Dec-10	20-Dec-10	346d
Gyle Centre (exc.) to Depot Stop (inc.)		**426d**	**12-Jul-10**	**04-Apr-12**	**162d**
A8 Underpass (W28)		**304d**	**12-Jul-10**	**30-Sep-11**	**284d**
Phases 1 & 2		**105d**	**12-Jul-10**	**07-Dec-10**	**352d**
5C-03-W28-90(3)10	Deck Construction	38d	12-Jul-10	02-Sep-10	76d
5C-03-W28-90(3)20	North Portal	42d	12-Jul-10	08-Sep-10	415d
5C-03-W28-90(3)30	Finishes	67d	03-Sep-10	07-Dec-10	76d
Phase 4		**120d**	**12-Jul-10**	**11-Jan-11**	**468d**
5C-03-W28-92(3)10	Deck Construction	47d	12-Jul-10	15-Sep-10	34d
5C-03-W28-92(3)20	South Portal	55d	02-Sep-10	17-Nov-10	496d
5C-03-W28-92(3)30	Finishes	73d	16-Sep-10	11-Jan-11	34d
Phase 3		**101d**	**12-Jan-11**	**06-Jun-11**	**367d**
5C-03-W28-91(3)10	Deck Construction	78d	12-Jan-11	03-May-11	34d
5C-03-W28-91(3)	Temporary Works	11d	16-Feb-11	02-Mar-11	432d
5C-03-W28-91(3)20	Reinstate Retaining Wall	6d	19-Apr-11	26-Apr-11	394d
5C-03-W28-91(3)30	Finishes	23d	04-May-11	06-Jun-11	239d
Tunnel Construction		**239d**	**12-Oct-10**	**30-Sep-11**	**34d**
5C-03-W28-94(3)	Phases 1 & 2	91d	12-Oct-10	02-Mar-11	76d
5C-03-W28-94(3)10	Phase 3	36d	04-May-11	23-Jun-11	34d
5C-03-W28-94(3)20	Phase 4	91d	25-May-11	30-Sep-11	34d
Depot Access Bridge (S32)		**153d**	**12-Jul-10**	**25-Feb-11**	**435d**
Centre Columns		**39d**	**01-Oct-10**	**24-Nov-10**	**204d**
5C-03-S32-30(3)	Pile Caps	17d	01-Oct-10	25-Oct-10	204d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0109

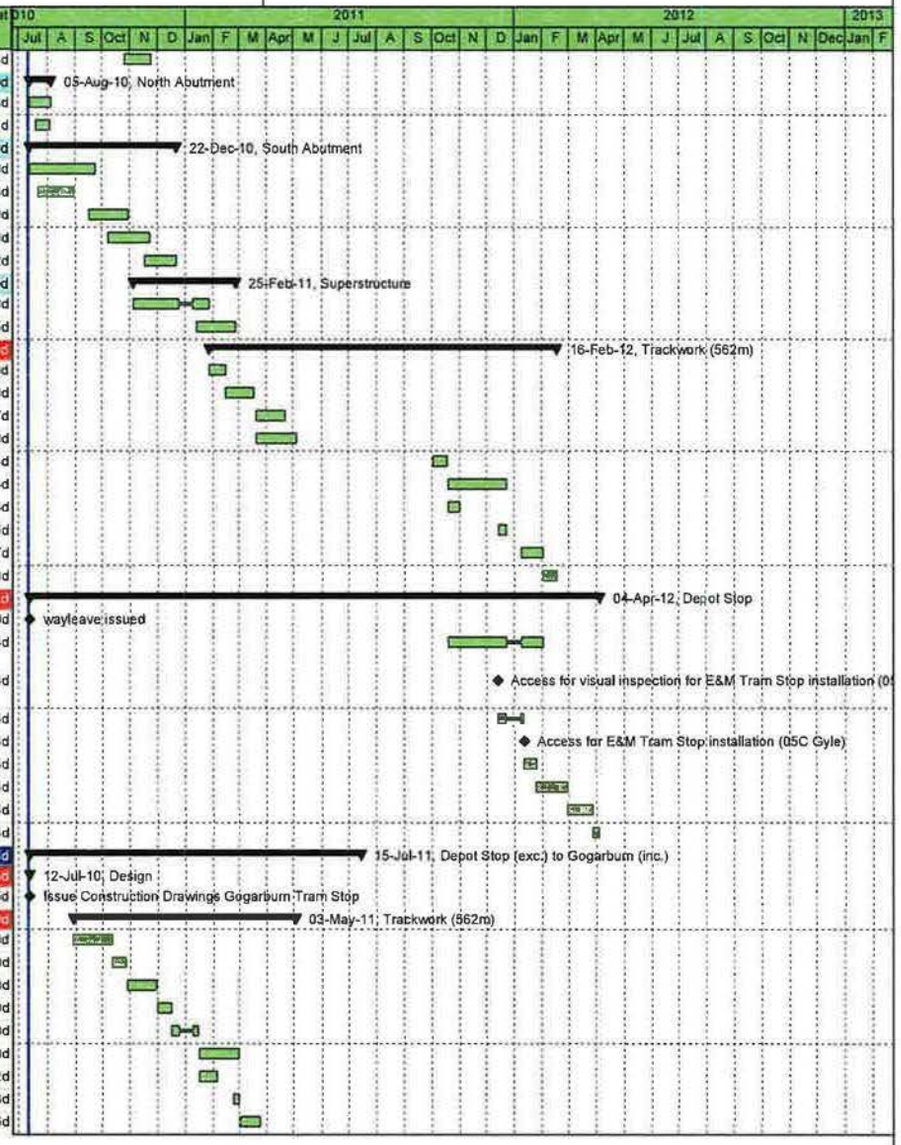
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5C-03-S32-35(3)	Columns	22d	26-Oct-10	24-Nov-10	204d
North Abutment		18d	12-Jul-10	05-Aug-10	570d
5C-03-S32-15(3)	Walls	18d	12-Jul-10	05-Aug-10	283d
5C-03-S32-20(3)	Drainage & Backfill	12d	19-Jul-10	04-Aug-10	571d
South Abutment		116d	12-Jul-10	22-Dec-10	472d
5C-03-S32-40(3)	Temporary Works	53d	12-Jul-10	23-Sep-10	139d
5C-03-S32-45(3)	Piling	26d	23-Jul-10	30-Aug-10	553d
5C-03-S32-50(3)	Pile Caps	31d	17-Sep-10	29-Oct-10	139d
5C-03-S32-55(3)	Walls	33d	08-Oct-10	23-Nov-10	139d
5C-03-S32-60(3)	Drainage & Backfill	25d	17-Nov-10	22-Dec-10	472d
Superstructure		70d	05-Nov-10	25-Feb-11	435d
5C-03-S32-65(3)	Deck	49d	05-Nov-10	27-Jan-11	139d
5C-03-S32-70(3)	Finishes	31d	14-Jan-11	25-Feb-11	435d
Trackwork (562m)		260d	28-Jan-11	16-Feb-12	195d
5C-03-TRCK-30	Bulk Excavation	12d	28-Jan-11	14-Feb-11	139d
5C-03-TRCK-31(3)	Additional Excavation	24d	15-Feb-11	18-Mar-11	139d
5C-03-TRCK-50	Drainage and OLE Foundations	23d	21-Mar-11	21-Apr-11	147d
5C-03-TRCK-51(3)	Additional drainage	31d	21-Mar-11	04-May-11	139d
5C-03-TRCK-40	Track Formation and Ducts	12d	03-Oct-11	18-Oct-11	34d
5C-03-TRCK-70	Track Laying (562m)	47d	19-Oct-11	23-Dec-11	34d
5C-03-SIGN-70	point machine mechanical set up	10d	19-Oct-11	01-Nov-11	134d
5C-03-SIGN-60	wayside preparation for loops(7) and boxes(2)	8d	14-Dec-11	23-Dec-11	225d
5C-03-TRCK-80	Track Finishes	18d	09-Jan-12	01-Feb-12	37d
5C-03-TRCK-81	Fencing and Reinstatements	11d	02-Feb-12	16-Feb-12	68d
Depot Stop		428d	12-Jul-10	04-Apr-12	162d
5C-06B-TRMS-20(3)	wayleave issued	0d	12-Jul-10		360d
5C-06B-TRMS-90(3)	Civil Engineering and Building Works incl related cubicle foundations and cable ducts	65d	19-Oct-11	01-Feb-12	34d
5C-06B-TRMS-30(3)	Access for visual inspection for E&M Tram Stop installation (05C Gyle)	0d	13-Dec-11		244d
5C-06B-TRMS-40(3)	Deliver and Install shelter	10d	15-Dec-11	11-Jan-12	34d
5C-06B-TRMS-31(3)	Access for E&M Tram Stop installation (05C Gyle)	0d	11-Jan-12		34d
5C-06B-TRMS-45(3)	Deliver and Install cubicle	10d	12-Jan-12	25-Jan-12	34d
5C-06B-TRMS-50(3)	Install LV Power Supply and LV Power Equipment	25d	26-Jan-12	29-Feb-12	34d
5C-06B-TRMS-70(3)	Install Telecon Equipment	20d	01-Mar-12	28-Mar-12	34d
5C-06B-TRMS-80(3)	Site Acceptance Test Tramstop	5d	29-Mar-12	04-Apr-12	34d
Depot Stop (exc.) to Gogarburn (inc.)		250d	12-Jul-10	15-Jul-11	338d
Design		0d	12-Jul-10	12-Jul-10	285d
5C-02-TRMS-10	Issue Construction Drawings Gogarburn Tram Stop	0d		12-Jul-10*	285d
Trackwork (562m)		164d	30-Aug-10	03-May-11	390d
5C-02-TRCK-51(3)	Pre Earthworks Drainage	31d	30-Aug-10	11-Oct-10	170d
5C-02-TRCK-30	Earthworks	12d	12-Oct-10	27-Oct-10	170d
5C-02-TRCK-50	Drainage	23d	28-Oct-10	30-Nov-10	170d
5C-02-TRCK-40	OLE Foundations & Ducts	12d	01-Dec-10	16-Dec-10	170d
5C-02-TRCK-91	Sub Base & Ballast	11d	17-Dec-10	14-Jan-11	170d
5C-02-TRCK-70	Track Laying (562m)	32d	17-Jan-11	01-Mar-11	170d
5C-02-SIGN-70	point machine mechanical set up	15d	17-Jan-11	04-Feb-11	322d
5C-02-SIGN-60	wayside preparation for loops(4) and boxes(1)	5d	23-Feb-11	01-Mar-11	433d
5C-02-TRCK-80	Track Finishes	18d	02-Mar-11	25-Mar-11	196d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0110

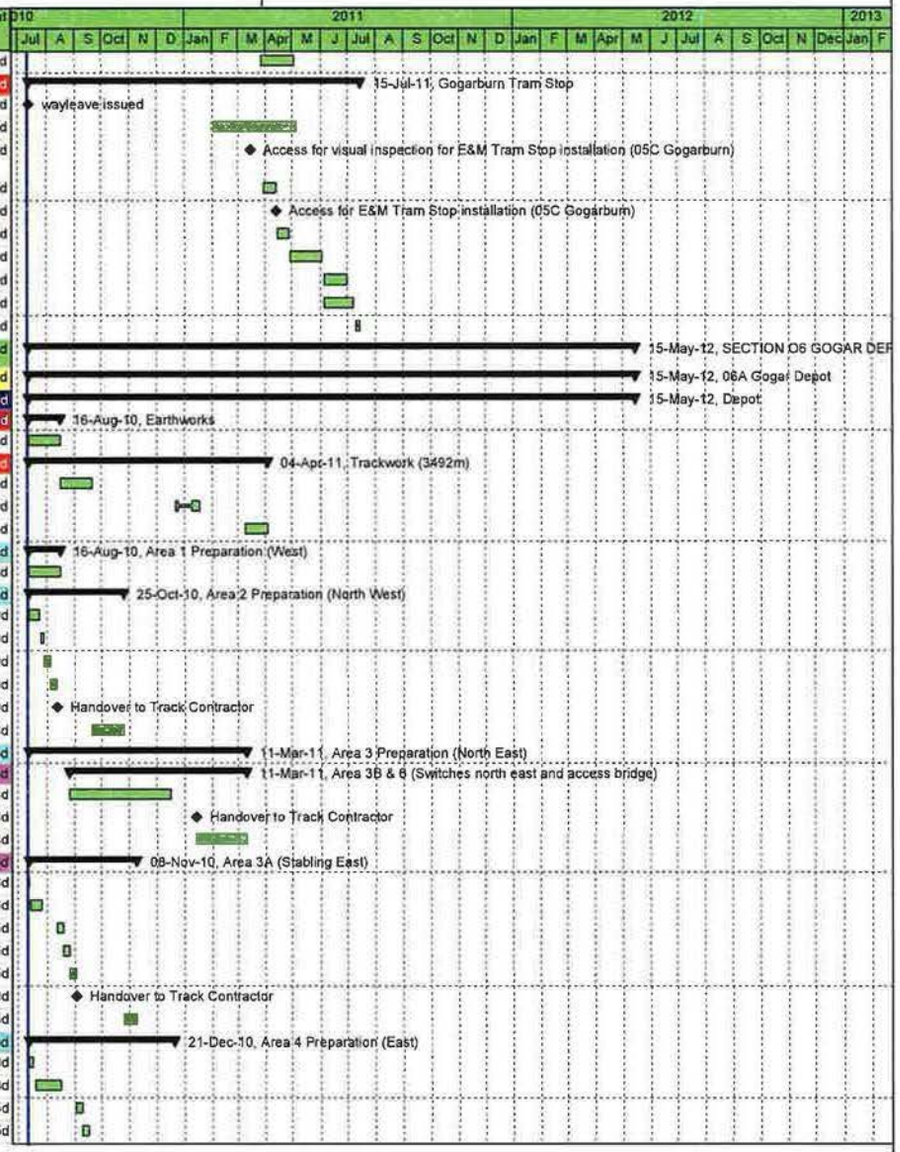
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
5C-02-TRCK-81	Fencing and Reinstatements	25d	28-Mar-11	03-May-11	390d
Gogarburn Tram Stop		250d	12-Jul-10	15-Jul-11	338d
5C-02-TRMS-20	wayleave issued	0d	12-Jul-10		355d
5C-02-TRMS-90	Civil Engineering and Building Works	65d	02-Feb-11	05-May-11	170d
5C-02-TRMS-30	Access for visual inspection for E&M Tram Stop installation (05C Gogarburn)	0d	15-Mar-11		439d
5C-02-TRMS-40	Deliver and Install Shelter	10d	30-Mar-11	13-Apr-11	210d
5C-02-TRMS-31	Access for E&M Tram Stop installation (05C Gogarburn)	0d	13-Apr-11		234d
5C-02-TRMS-45	Deliver and Install cubicle	10d	14-Apr-11	27-Apr-11	210d
5C-02-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	28-Apr-11	03-Jun-11	210d
5C-02-TRMS-70	Install Telecon Equipment	20d	06-Jun-11	01-Jul-11	220d
5C-02-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	06-Jun-11	08-Jul-11	210d
5C-02-TRMS-80	Package Test Tramstop	5d	11-Jul-11	15-Jul-11	210d
SECTION O6 GOGAR DEPOT		454d	12-Jul-10	15-May-12	134d
06A Gogar Depot		454d	12-Jul-10	15-May-12	134d
Depot		454d	12-Jul-10	15-May-12	134d
Earthworks		25d	12-Jul-10	16-Aug-10	563d
6A-01-TRCK-51(3)	Drainage	25d	12-Jul-10	16-Aug-10	563d
Trackwork (3492m)		177d	12-Jul-10	04-Apr-11	411d
6A-01B-TRCK-70	Trackwork in Workshop	25d	17-Aug-10	20-Sep-10	173d
6A-01-SIGN-60	wayside preparation for loops(X) and boxes(X)	10d	22-Dec-10	18-Jan-11	463d
6A-01C-TRCK-70	Track Laying Finishing	17d	09-Mar-11	04-Apr-11	174d
Area 1 Preparation (West)		25d	12-Jul-10	16-Aug-10	173d
6A-011-TRCK-95(3)10	Trackwork	25d	12-Jul-10	16-Aug-10	173d
Area 2 Preparation (North West)		75d	12-Jul-10	25-Oct-10	173d
6A-012-TRCK-60(3)	Ducts	10d	12-Jul-10	23-Jul-10	200d
6A-012-TRCK-74(3)	Cut Formation / Sub Ballast	3d	26-Jul-10	28-Jul-10	200d
6A-012-TRCK-75(3)	First Layer Ballast	5d	29-Jul-10	05-Aug-10	200d
6A-012-TRCK-76(3)	Second Layer Ballast	5d	06-Aug-10	12-Aug-10	200d
6A-012-TRCK-95(3)	Handover to Track Contractor	0d		12-Aug-10	200d
6A-012-TRCK-96(3)	Trackwork	25d	21-Sep-10	25-Oct-10	173d
Area 3 Preparation (North East)		162d	12-Jul-10	11-Mar-11	174d
Area 3B & 6 (Switches north east and access bridge)		130d	26-Aug-10	11-Mar-11	174d
6A-013-TRCK-76(3)10	Civils Preparation	80d	26-Aug-10	16-Dec-10	204d
6A-013-TRCK-95(3)10	Handover to Track Contractor	0d		14-Jan-11	174d
6A-013-TRCK-96(3)10	Trackwork	40d	14-Jan-11	11-Mar-11	174d
Area 3A (Stabling East)		65d	12-Jul-10	08-Nov-10	173d
6A-013-TRCK-52(3)	Drains	2d	12-Jul-10	13-Jul-10	216d
6A-013-TRCK-60(3)	Ducts	10d	14-Jul-10	27-Jul-10	216d
6A-013-TRCK-74(3)	Cut Formation / Sub Ballast	5d	13-Aug-10	19-Aug-10	205d
6A-013-TRCK-75(3)	First Layer Ballast	5d	20-Aug-10	26-Aug-10	205d
6A-013-TRCK-76(3)	Second Layer Ballast	5d	27-Aug-10	02-Sep-10	205d
6A-013-TRCK-95(3)	Handover to Track Contractor	0d		02-Sep-10	210d
6A-013-TRCK-96(3)	Trackwork	10d	26-Oct-10	08-Nov-10	173d
Area 4 Preparation (East)		115d	12-Jul-10	21-Dec-10	173d
6A-014-TRCK-52(3)	Drains	5d	12-Jul-10	16-Jul-10	218d
6A-014-TRCK-60(3)	Ducts	20d	19-Jul-10	16-Aug-10	218d
6A-014-TRCK-74(3)	Cut Formation / Sub Ballast	5d	03-Sep-10	09-Sep-10	205d
6A-014-TRCK-75(3)	First Layer Ballast	5d	10-Sep-10	16-Sep-10	205d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0111

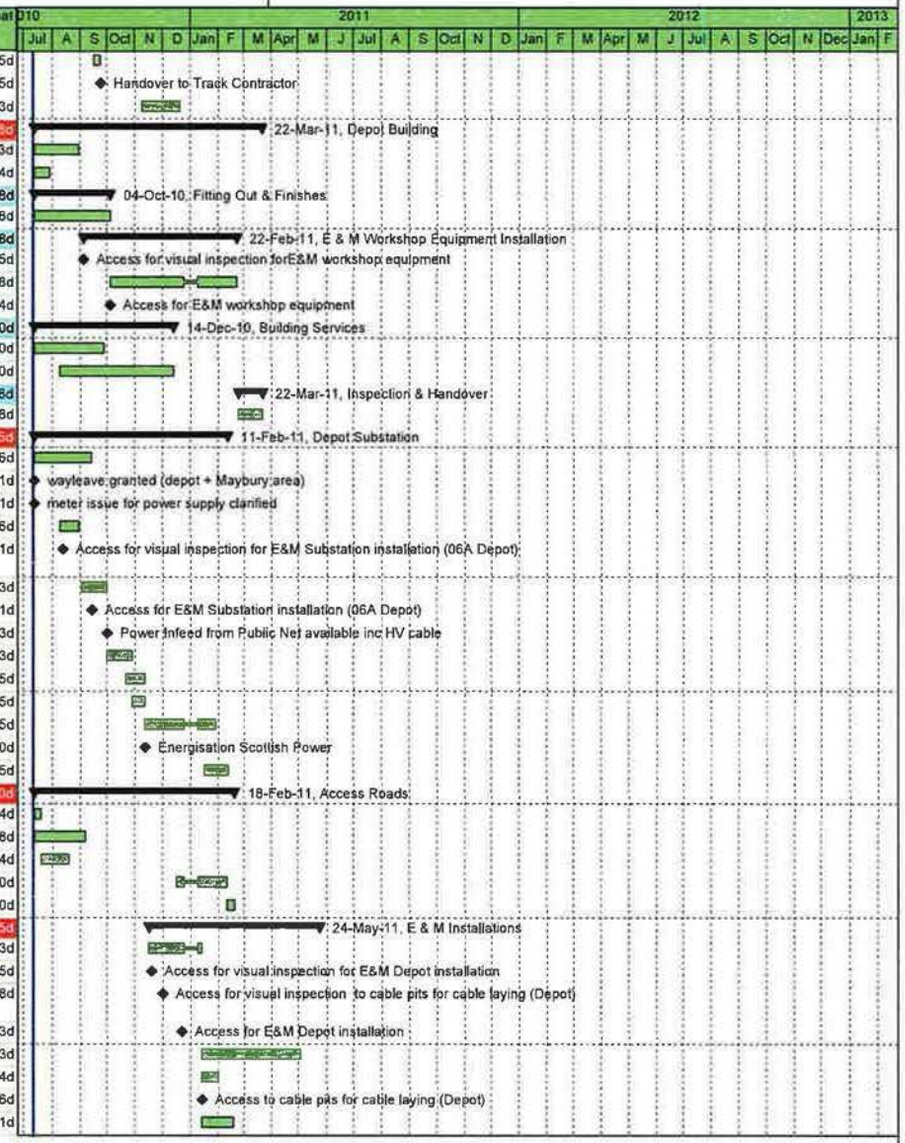
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
6A-014-TRCK-76(3)	Second Layer Ballast	5d	17-Sep-10	23-Sep-10	205d
6A-014-TRCK-95(3)	Handover to Track Contractor	0d		23-Sep-10	205d
6A-014-TRCK-96(3)	Trackwork	30d	09-Nov-10	21-Dec-10	173d
Depot Building		170d	12-Jul-10	22-Mar-11	418d
6A-01-BLDS-55	Pits	35d	12-Jul-10	30-Aug-10	553d
6A-01-BLDS-65	Building Envelope	14d	12-Jul-10	29-Jul-10	574d
Fitting Out & Finishes		60d	12-Jul-10	04-Oct-10	208d
6A-01-BLDS-71	Fitting out and Finishes	60d	12-Jul-10	04-Oct-10	208d
E & M Workshop Equipment Installation		111d	06-Sep-10	22-Feb-11	438d
6A-01-BLDS-30	Access for visual inspection forE&M workshop equipment	0d	06-Sep-10		575d
6A-01-BLDS-72	Installation of workshop equipment	90d	05-Oct-10	22-Feb-11	418d
6A-01-BLDS-31	Access for E&M workshop equipment	0d	05-Oct-10		554d
Building Services		110d	12-Jul-10	14-Dec-10	280d
6A-01-BLDS-70	Building Services Installation	55d	12-Jul-10	27-Sep-10	280d
6A-01-BLDS-80	Building Services Commissioning	90d	10-Aug-10	14-Dec-10	280d
Inspection & Handover		20d	23-Feb-11	22-Mar-11	418d
6A-01-BLDS-81	Inspection and Testing	20d	23-Feb-11	22-Mar-11	418d
Depot Substation		143d	12-Jul-10	11-Feb-11	445d
6A-01-SUBS-90	Civil Engineering and Building Works	45d	12-Jul-10	13-Sep-10	276d
6A-01-SUBS-110	wayleave granted (depot + Maybury area)	0d		12-Jul-10	281d
6A-01-SUBS-120	meter issue for power supply clarified	0d		12-Jul-10	301d
6A-01-SUBS-100	cable duct for Power Infeed	15d	10-Aug-10	31-Aug-10	276d
6A-01-SUBS-30	Access for visual inspection for E&M Substation installation (06A Depot)	0d	13-Aug-10		591d
6A-01-SUBS-130	installation HV cable	20d	03-Sep-10	30-Sep-10	273d
6A-01-SUBS-31	Access for E&M Substation installation (06A Depot)	0d	13-Sep-10		301d
6A-01-SUBS-40	Power Infeed from Public Net available inc HV cable	0d	01-Oct-10		273d
6A-01-SUBS-45	Install HV Power Supply and Equipment (SP)	20d	01-Oct-10	28-Oct-10	273d
6A-01-SUBS-70	Install Telecom and Scada	15d	22-Oct-10	11-Nov-10	445d
6A-01-SUBS-50	Install LV Power Supply and LV Power Equipment	10d	29-Oct-10	11-Nov-10	445d
6A-01-SUBS-60	Installation of TPS Equipment	45d	12-Nov-10	28-Jan-11	445d
6A-01-SUBS-55	Energisation Scottish Power	0d	12-Nov-10		500d
6A-01-SUBS-80	Testing and Commissioning	20d	17-Jan-11	11-Feb-11	445d
Access Roads		148d	12-Jul-10	18-Feb-11	440d
6A-01-ROAD-90(3)	Carpark	6d	12-Jul-10	19-Jul-10	524d
6A-01-ROAD-91(3)	Hardstanding	40d	12-Jul-10	06-Sep-10	548d
6A-01-ROAD-94(3)	Access Road	22d	20-Jul-10	19-Aug-10	524d
6A-01-ROAD-95(3)	Complete Access Road & Finishes	30d	17-Dec-10	10-Feb-11	440d
6A-01-JNCS-60	installation of traffic light control - Junction 208	6d	11-Feb-11	18-Feb-11	440d
E & M Installations		123d	16-Nov-10	24-May-11	375d
6A-01-OHLE-50(3)	Installation of poles and building fixings (Depot)	32d	16-Nov-10	13-Jan-11	173d
6A-01-OHLE-40	Access for visual inspection for E&M Depot installation	0d	19-Nov-10		495d
6A-01-ELEC-40	Access for visual inspection to cable pits for cable laying (Depot)	0d	01-Dec-10		488d
6A-01-OHLE-41	Access for E&M Depot installation	0d	22-Dec-10		173d
6A-01-OHLE-60(3)	Overhead Catenary Line (Depot)	76d	14-Jan-11	03-May-11	173d
6A-01-SGNW-70	Install Signalling Wayside Equipment (Depot)	12d	14-Jan-11	01-Feb-11	454d
6A-01-ELEC-41	Access to cable pits for cable laying (Depot)	0d	14-Jan-11		416d
6A-01-ELEC-70	Install Electrical Cables Depot	25d	14-Jan-11	18-Feb-11	441d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0112

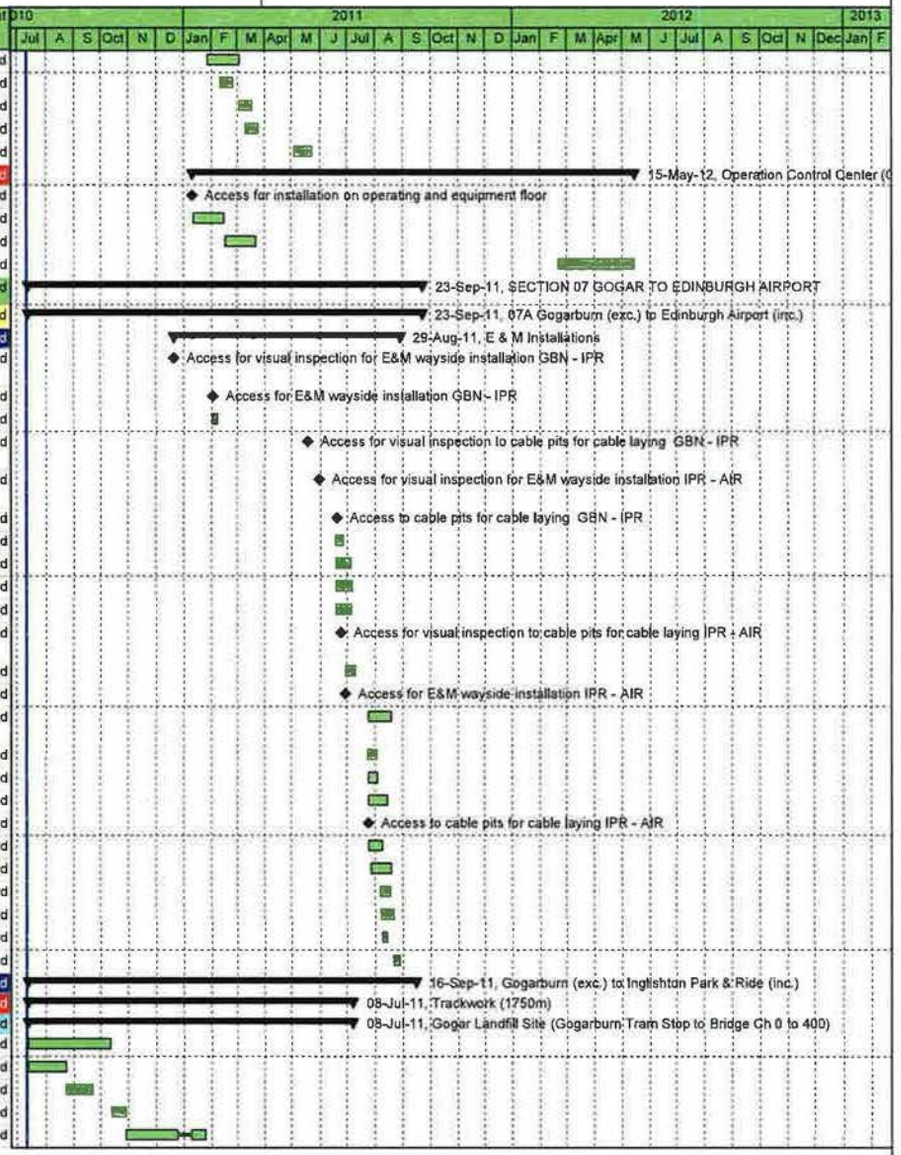
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
6A-01-SIGN-40	Installation of 2 SIG-interlocking cubicles depot entries	25d	28-Jan-11	04-Mar-11	416d
5C-02-SIGN-90	installation of SIG equipment on depot entry west	10d	11-Feb-11	25-Feb-11	421d
5C-03-SIGN-90	installation of SIG equipment on depot entry east	10d	04-Mar-11	18-Mar-11	412d
6A-01-SIGN-80	Commissioning of 2 SIG -interlocking cubicles depot entries	10d	11-Mar-11	25-Mar-11	412d
6A-01-OHLE-60(3)10	OCS Testing & Commissioning	15d	04-May-11	24-May-11	375d
Operation Control Center (OCC)		334d	11-Jan-11	15-May-12	134d
6A-01-SIGN-100	Access for installation on operating and equipment floor	0d		11-Jan-11	280d
6A-01-SIGN-110	operating floor fit out	25d	12-Jan-11	15-Feb-11	280d
6A-01-SIGN-150	equipment foor fit out SIG/COM/SCADA/Radio	25d	16-Feb-11	22-Mar-11	418d
6A-01-SIGN-200	testing and commissioning OCC equipment AIR - HAY	60d	21-Feb-12	15-May-12	6d
SECTION 07 GOGAR TO EDINBURGH AIRPORT		298d	12-Jul-10	23-Sep-11	290d
07A Gogarburn (exc.) to Edinburgh Airport (inc.)		298d	12-Jul-10	23-Sep-11	290d
E & M Installations		166d	20-Dec-10	29-Aug-11	309d
7A-04-OHLE-30	Access for visual inspection for E&M wayside installation GBN - IPR	0d	20-Dec-10		475d
7A-04-OHLE-31	Access for E&M wayside installation GBN - IPR	0d	02-Feb-11		232d
7A-04-OHLE-50	Installation of poles and building fixings -20 (71 0581 - 71 13...	4d	02-Feb-11	07-Feb-11	244d
7A-04-ELEC-30	Access for visual inspection to cable pits for cable laying GBN - IPR	0d	18-May-11		380d
7A-05-OHLE-30	Access for visual inspection for E&M wayside installation IPR - AIR	0d	31-May-11		372d
7A-04-ELEC-31	Access to cable pits for cable laying GBN - IPR	0d	20-Jun-11		139d
7A-02/04-OHLE-50	Installation of poles and building fixings -19 (53 1566 - 71 07...	7d	20-Jun-11	28-Jun-11	139d
7A-04-ELEC-60	Install Electrical Cables GBN - IPR	13d	20-Jun-11	06-Jul-11	338d
7A-01/02/04-TELC-60	Install Fibre Optic Cables DEH - GBN - IPR + DEP	15d	20-Jun-11	08-Jul-11	343d
7A-04-SGNW-60	Install Signalling Wayside Equipment GBN - IPR	13d	20-Jun-11	06-Jul-11	338d
7A-05-ELEC-30	Access for visual inspection to cable pits for cable laying IPR - AIR	0d	23-Jun-11		355d
7A-04/05-OHLE-50(3)	Installation of poles and building fixings -21 (71 1129 - 71 25...	7d	30-Jun-11	11-Jul-11	129d
7A-05-OHLE-31	Access for E&M wayside installation IPR - AIR	0d	30-Jun-11		129d
7A-04/05-OHLE-60(3)	Overhead Catenary Line -21 (71 1129 - 71 2580 + 71 2388 - 71 2512)	18d	25-Jul-11	19-Aug-11	119d
7A-05-ELEC-60	Install Electrical Cables IPR - AIR	7d	25-Jul-11	04-Aug-11	326d
7A-05-SGNW-60	Install Signalling Wayside Equipment IPR - AIR	7d	25-Jul-11	04-Aug-11	326d
7A-05-SIGN-40	Installation of SIG-interlocking cubicle AIR	15d	25-Jul-11	15-Aug-11	320d
7A-05-ELEC-31	Access to cable pits for cable laying IPR - AIR	0d	25-Jul-11		308d
7A-04/05-TELC-70	Install Fibre Optic Cables GBN - IPR - AIR	10d	25-Jul-11	09-Aug-11	319d
7A-02/04-OHLE-60	Overhead Catenary Line -19 (53 1566 - 71 0781)	16d	27-Jul-11	19-Aug-11	119d
7A-04-OHLE-60	Overhead Catenary Line -20 (71 0581 - 71 1351)	9d	08-Aug-11	19-Aug-11	119d
7A-05-SIGN-90	installation of SIG equipment on crossover AIR	10d	08-Aug-11	22-Aug-11	320d
7A-05-TELC-60	Install Fibre Optic Cables IPR - AIR	4d	09-Aug-11	15-Aug-11	319d
7A-05-SIGN-80	Commissioning of SIG -interlocking cubicle AIR	5d	22-Aug-11	29-Aug-11	320d
Gogarburn (exc.) to Inglishton Park & Ride (inc.)		293d	12-Jul-10	16-Sep-11	295d
Trackwork (1750m)		245d	12-Jul-10	08-Jul-11	343d
Gogar Landfill Site (Gogarburn Tram Stop to Bridge Ch 0 to 400)		245d	12-Jul-10	08-Jul-11	343d
7A-04-TRCK-110(3)	Three Months Settlement Period (Dummy)	66d	12-Jul-10	12-Oct-10	122d
7A-04-TRCK-120	Pre Earthworks Drainage	30d	12-Jul-10	23-Aug-10	170d
7A-04-TRCK-130	Earthworks Outwith Landfill Area	22d	24-Aug-10	22-Sep-10	244d
7A-04-TRCK-120(3)	Remove Surcharge	12d	13-Oct-10	28-Oct-10	122d
7A-04-TRCK-130(3)	Soil Nailing	52d	29-Oct-10	25-Jan-11	122d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary
Actual Work — Milestone

CEC00183919_0113

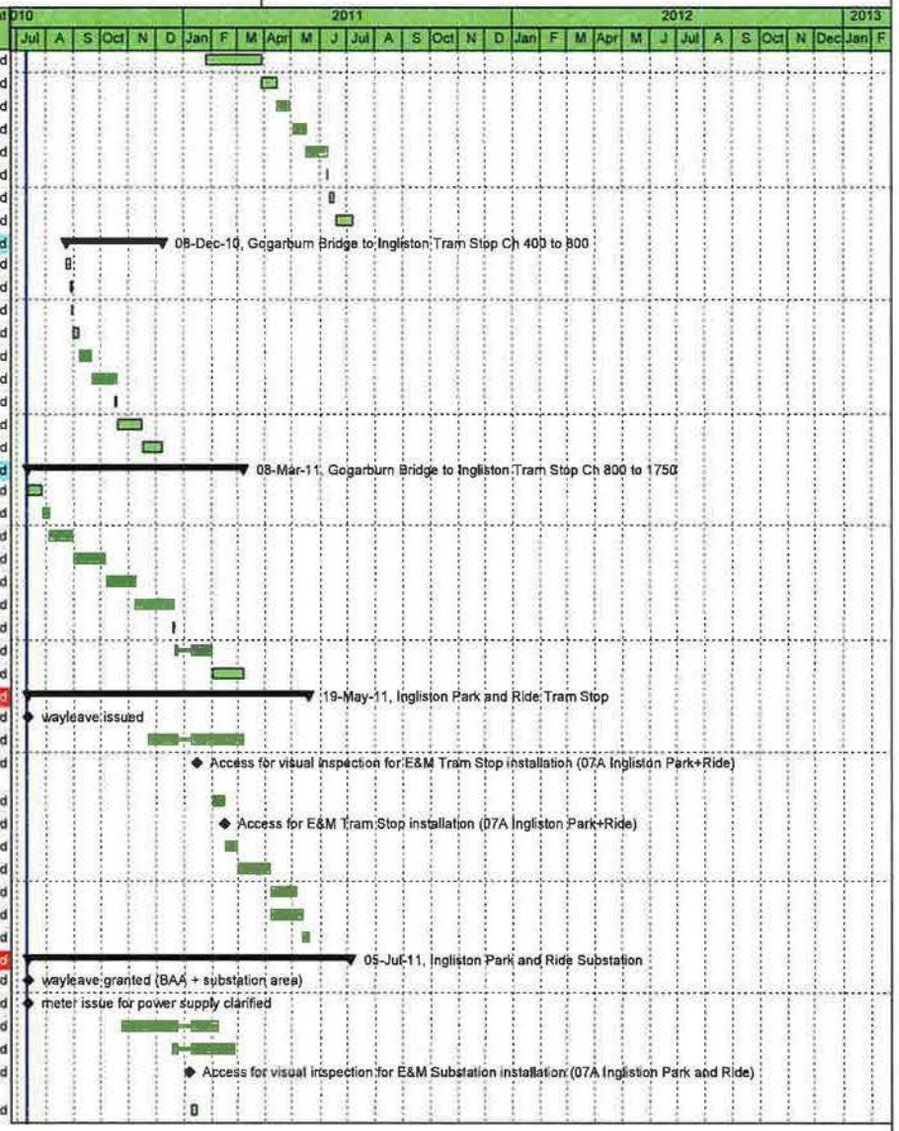
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
7A-04-TRCK-140(3)	Reinforced Earth Embankment	44d	26-Jan-11	28-Mar-11	122d
7A-04-TRCK-60	Drainage	12d	29-Mar-11	14-Apr-11	122d
7A-04-TRCK-90	Ducting & OLE Foundations	11d	15-Apr-11	29-Apr-11	122d
7A-04-TRCK-140	Sub base & Ballast	10d	03-May-11	16-May-11	122d
7A-04-TRCK-100	Track Laying (400m)	18d	17-May-11	10-Jun-11	122d
7A-04-SIGN-70	wayside preparation for loops(0) and boxes(4)	2d	09-Jun-11	10-Jun-11	235d
7A-04-TRCK-86	Top Ballast	5d	13-Jun-11	17-Jun-11	122d
7A-04-TRCK-110	Fencing & Trackside Finishes	15d	20-Jun-11	08-Jul-11	343d
Gogarburn Bridge to Ingliston Tram Stop Ch 400 to 800		76d	24-Aug-10	08-Dec-10	482d
7A-04-TRCK-160	Pre Earthworks Drainage	4d	24-Aug-10	27-Aug-10	170d
7A-04-TRCK-30	Earthworks	1d	30-Aug-10	30-Aug-10	184d
7A-04-TRCK-51(3)	Drainage	1d	31-Aug-10	31-Aug-10	261d
7A-04-TRCK-50	OLE Foundations & ducts	5d	01-Sep-10	07-Sep-10	261d
7A-04-TRCK-40	Sub base & Ballast	10d	08-Sep-10	21-Sep-10	261d
7A-04-TRCK-70	Track Laying (1750m)	20d	22-Sep-10	19-Oct-10	261d
7A-04-SIGN-60	wayside preparation for loops(0) and boxes(8)	2d	18-Oct-10	19-Oct-10	389d
7A-04-TRCK-76	Top Ballast	20d	20-Oct-10	16-Nov-10	261d
7A-04-TRCK-80	Fencing & Trackside Finishes	15d	17-Nov-10	08-Dec-10	482d
Gogarburn Bridge to Ingliston Tram Stop Ch 800 to 1750		160d	12-Jul-10	08-Mar-11	428d
7A-04-TRCK-210	Pre Earthworks Drainage	13d	12-Jul-10	28-Jul-10	170d
7A-04-TRCK-150	Earthworks	5d	29-Jul-10	05-Aug-10	170d
7A-04-TRCK-51(3)10	Drainage	18d	06-Aug-10	31-Aug-10	170d
7A-04-TRCK-180	OLE Foundations & ducts	26d	01-Sep-10	06-Oct-10	170d
7A-04-TRCK-190	Sub base & Ballast	23d	07-Oct-10	08-Nov-10	170d
7A-04-TRCK-200	Track Laying	30d	09-Nov-10	21-Dec-10	170d
7A-04-SIGN-80	wayside preparation for loops(0) and boxes(8)	2d	20-Dec-10	21-Dec-10	345d
7A-04-TRCK-96	Top Ballast	20d	22-Dec-10	01-Feb-11	217d
7A-04-TRCK-170	Fencing & Trackside Finishes	25d	02-Feb-11	08-Mar-11	428d
Ingliston Park and Ride Tram Stop		210d	12-Jul-10	19-May-11	378d
7A-04-TRMS-20	wayleave issued	0d	12-Jul-10		355d
7A-04-TRMS-90	Civil Engineering and Building Works	65d	23-Nov-10	08-Mar-11	170d
7A-04-TRMS-30	Access for visual inspection for E&M Tram Stop installation (07A Ingliston Park+Ride)	0d	14-Jan-11		480d
7A-04-TRMS-40	Deliver and Install Shelter	10d	02-Feb-11	15-Feb-11	250d
7A-04-TRMS-31	Access for E&M Tram Stop installation (07A Ingliston Park+...	0d	15-Feb-11		275d
7A-04-TRMS-45	Deliver and Install cubicle	10d	16-Feb-11	01-Mar-11	250d
7A-04-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	02-Mar-11	06-Apr-11	250d
7A-04-TRMS-70	Install Telecon Equipment	20d	07-Apr-11	05-May-11	255d
7A-04-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	07-Apr-11	12-May-11	250d
7A-04-TRMS-80	Package Test Tramstop	5d	13-May-11	19-May-11	250d
Ingliston Park and Ride Substation		242d	12-Jul-10	05-Jul-11	346d
7A-01-SUBS-110	wayleave granted (BAA + substation area)	0d		12-Jul-10	266d
7A-01-SUBS-120	meter issue for power supply clarified	0d		12-Jul-10	296d
7A-04-SUBS-90	Civil Engineering and Building Works	65d	25-Oct-10	07-Feb-11	184d
7A-01-SUBS-130	installation HV cable	40d	20-Dec-10	25-Feb-11	183d
7A-04-SUBS-30	Access for visual inspection for E&M Substation installation (07A Ingliston Park and Ride)	0d	07-Jan-11		188d
7A-04-SUBS-100	cable duct for Power Infeed	5d	10-Jan-11	14-Jan-11	183d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

CEC00183919_0114

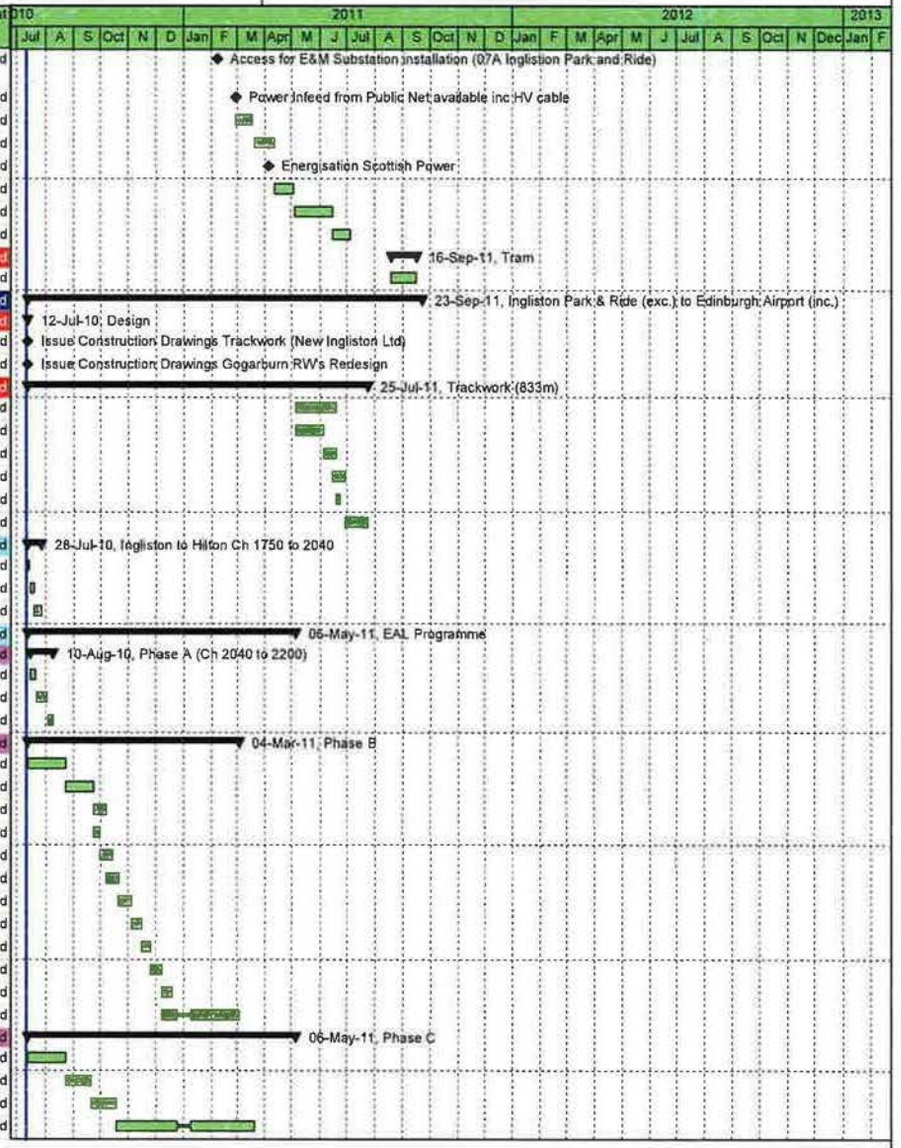
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
7A-04-SUBS-31	Access for E&M Substation installation (07A Inglistion Park and Ride)	0d	07-Feb-11		188d
7A-04-SUBS-40	Power Infeed from Public Net available inc HV cable	0d	28-Feb-11		183d
7A-04-SUBS-45	Install HV Power Supply and Equipment (SP)	15d	28-Feb-11	18-Mar-11	183d
7A-04-SUBS-50	Install LV Power Supply and LV Power Equipment	15d	21-Mar-11	11-Apr-11	346d
7A-04-SUBS-55	Energisation Scottish Power	0d	05-Apr-11		410d
7A-04-SUBS-70	Install Telecom and Scada	15d	12-Apr-11	03-May-11	346d
7A-04-SUBS-60	Installation of TPS Equipment	30d	04-May-11	15-Jun-11	346d
7A-04-SUBS-80	Testing and Commissioning	14d	16-Jun-11	05-Jul-11	346d
Tram		20d	19-Aug-11	16-Sep-11	295d
07-04-TRAM-20	Track Testing of Tram	20d	19-Aug-11	16-Sep-11	295d
Ingliston Park & Ride (exc.) to Edinburgh Airport (inc.)		298d	12-Jul-10	23-Sep-11	290d
Design		0d	12-Jul-10	12-Jul-10	588d
7A-05-TRCK-10	Issue Construction Drawings Trackwork (New Ingliston Ltd)	0d		12-Jul-10*	588d
7A-05-TRCK-20	Issue Construction Drawings Gogarburn RW's Redesign	0d		12-Jul-10*	119d
Trackwork (833m)		255d	12-Jul-10	25-Jul-11	333d
7A-05-TRCK-70	Track Laying (833m)	30d	06-May-11	20-Jun-11	119d
7A-05-SIGN-70	point machine mechanical set up	20d	06-May-11	06-Jun-11	127d
7A-05-SIGN-60	wayside preparation for loops(4) and boxes(12)	10d	06-Jun-11	20-Jun-11	230d
7A-05-TRCK-76	Top Ballast	10d	16-Jun-11	30-Jun-11	119d
7A-05-JNCS-60	installation of traffic light control - Junction 210	4d	20-Jun-11	24-Jun-11	226d
7A-05-TRCK-80	Fencing & Trackside Finishes	17d	30-Jun-11	25-Jul-11	308d
Ingliston to Hilton Ch 1750 to 2040		13d	12-Jul-10	28-Jul-10	301d
7A-05-TRCK-60	Drainage	3d	12-Jul-10	14-Jul-10	298d
7A-05-TRCK-50	OLE Foundations & Ducts	3d	15-Jul-10	19-Jul-10	300d
7A-05-TRCK-40	Sub Base & Ballast	7d	20-Jul-10	28-Jul-10	301d
EAL Programme		200d	12-Jul-10	06-May-11	388d
Phase A (Ch 2040 to 2200)		18d	15-Jul-10	10-Aug-10	298d
7A-05-W14A-40(3)	Drainage	5d	15-Jul-10	21-Jul-10	298d
7A-05-W14A-45(3)	OLE Foundations / Street Lighting & Ducts	8d	22-Jul-10	03-Aug-10	298d
7A-05-W14A-50(3)	Earthworks Finishes sand layer / sub base	5d	04-Aug-10	10-Aug-10	298d
Phase B		157d	12-Jul-10	04-Mar-11	431d
7A-05-W14B-05(3)	Obtain EAL Permit	30d	12-Jul-10	24-Aug-10	162d
7A-05-W14B-10(3)	Earthworks (Fill 2300m3, Cut 2900m3, cap 660m3)	22d	24-Aug-10	23-Sep-10	162d
7A-05-W14B-15(3)	Drainage	10d	23-Sep-10	07-Oct-10	162d
7A-05-W14B-25(3)	Install Temporary Works	5d	23-Sep-10	30-Sep-10	162d
7A-05-W14b-20(3)	14b Reinforced Earth Wall	10d	30-Sep-10	14-Oct-10	162d
7A-05-W14B-30(3)	14c Reinforced Earth Wall	10d	07-Oct-10	21-Oct-10	162d
7A-05-W14B-35(3)	OLE Foundations / Street Lighting	10d	21-Oct-10	04-Nov-10	162d
7A-05-W14B-40(3)	Footpath Works	8d	04-Nov-10	16-Nov-10	162d
7A-05-W14B-45(3)	Signalised Junction at Eastfield Avenue	8d	16-Nov-10	26-Nov-10	162d
7A-05-W14B-50(3)	Earthworks sand / subbase / ballast	7d	26-Nov-10	08-Dec-10	162d
7A-05-W14B-55(3)	Crash Barrier Installation	8d	08-Dec-10	20-Dec-10	475d
7A-05-W14B-60(3)	Eastfield Avenue	52d	08-Dec-10	04-Mar-11	162d
Phase C		200d	12-Jul-10	06-May-11	119d
7A-05-W14C-05(3)	Obtain EAL Permit	30d	12-Jul-10	24-Aug-10	119d
7A-05-W14C-10(3)	Earthworks (cut 3600m3, Fill 1900m3)	20d	24-Aug-10	21-Sep-10	119d
7A-05-W14C-15(3)	Install temporary works	20d	21-Sep-10	19-Oct-10	119d
7A-05-W14C-20(3)	14d RC Retaining Wall	98d	19-Oct-10	21-Mar-11	119d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work — Critical Remaining Work — Summary — Actual Work — Milestone

CEC00183919_0115

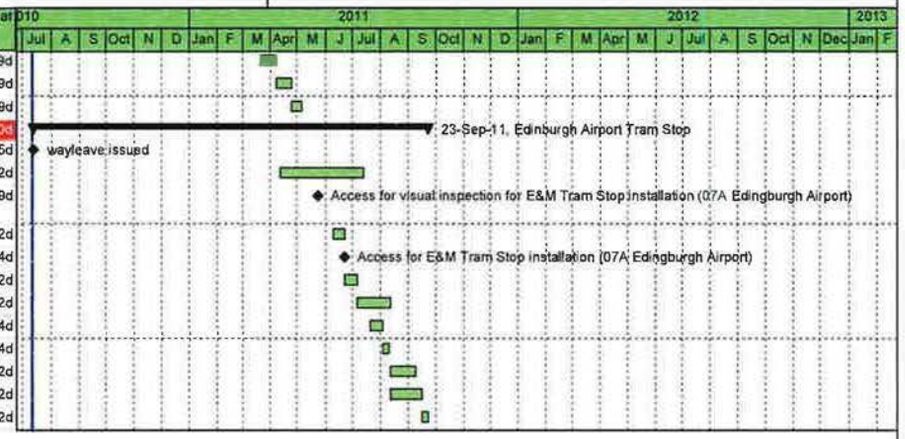
Project Carlisle Programme

(Revision 00)

EDINBURGH TRAM NETWORK

BILFINGER BERGER Civil SIEMENS CAF

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
7A-05-W14C-25(3)	Remove temporary works	12d	21-Mar-11	07-Apr-11	119d
7A-05-W14C-30(3)	Drainage	12d	07-Apr-11	25-Apr-11	119d
7A-05-W14C-35(3)	Earthworks sand / subbase / ballast / blacktop	8d	25-Apr-11	06-May-11	119d
Edinburgh Airport Tram Stop		296d	12-Jul-10	23-Sep-11	290d
7A-05-TRMS-20	wayleave issued	0d	12-Jul-10		355d
7A-05-TRMS-90	Civil Engineering and Building Works	65d	12-Apr-11	14-Jul-11	162d
7A-05-TRMS-30	Access for visual inspection for E&M Tram Stop installation (07A Edingburgh Airport)	0d	24-May-11		389d
7A-05-TRMS-40	Deliver and Install Shelter	10d	09-Jun-11	23-Jun-11	162d
7A-05-TRMS-31	Access for E&M Tram Stop installation (07A Edingburgh Airp...	0d	23-Jun-11		184d
7A-05-TRMS-45	Deliver and Install cubicle	10d	23-Jun-11	07-Jul-11	162d
7A-05-TRMS-50	Install LV Power Supply and LV Power Equipment	25d	07-Jul-11	12-Aug-11	162d
7A-05-SIG-40	Installation of SIG-interlocking cubicle	10d	21-Jul-11	04-Aug-11	204d
7A-05-SIG-80	Commissioning of SIG -interlocking cubicle	5d	04-Aug-11	11-Aug-11	204d
7A-05-TRMS-70	Install Telecon Equipment	20d	12-Aug-11	09-Sep-11	172d
7A-05-TRMS-60	Install Station Control Equipment + AFC Equipment	25d	12-Aug-11	16-Sep-11	162d
7A-05-TRMS-80	Package Test Tramstop	5d	16-Sep-11	23-Sep-11	162d



Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

Remaining Work · Critical Remaining Work · Summary · Actual Work · Milestone

CEC00183919_0116

APPENDIX 5.2

SECTIONAL COMPLETION DATES

Section	Scope	Target Date	Remarks
A	Section A means completion of the Depot (fully functional including energisation) and the first Tram delivered to the Site and assembled;	24. May 2011	finish of access bridge construction not mandatory for that milestone
B	Section B means completion of the test track functional from the Depot west entry/exit to the airport, and five Trams delivered to the Site and assembled with the first Tram to have completed the Tram Type Test and the remaining Trams to have completed the Tram Commissioning Routine Tests, such tests as described in the Employer's Requirements and the completion of all tests required to enable the commencement of Driver Training;	15. September 2011	Allows one year + shadow running remaining time for driver training - lineside systems fully functional - OCC and radio communication functional only as far as available
C	Section C means the carrying out and completion of the section from Airport to Haymarket and the completion of all tests required by the Employer's Requirements in relation to that Section, including those System Acceptance Tests that must be successfully completed prior to shadow running as provided for in the Employer's Requirements;	End of construction 22.May 2012 End of T&C 20. August 2012	3 month for Testing & Commissioning (OCC and radio communication fully functional)
D	Section D means the completion of shadow running and commencement of revenue service approval obtained and the completion of all tests required by the Employer's Requirements in relation to that Section, including those System Acceptance Tests that must be successfully completed to enable Service Commencement; Tram Commissioning Routine Tests performed for trams	19. November 2012	

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