

### Gogar Interchange

The Guaranteed Maximum Price does not include for the Gogar Interchange. The Guaranteed Maximum Price is based on the GMP Drawings.

### New Ingliston Limited ('NIL')

The Guaranteed Maximum Price is based on the Drawings as included in the electronic record of "GMP Drawings".

### Airport Retaining Walls W14 & W15

The Guaranteed Maximum Price is based on the Drawings as included in the electronic record of "GMP Drawings". Any changes required to accommodate the outcome of the flood modelling works are not at the risk of Infraco save for alterations required to the weir within Culvert No.3.

### Airport Kiosk Design

No further future proofing is allowed in the Guaranteed Maximum Price.

The Guaranteed Maximum Price is based on the current developed elliptical design which is included on the drawings as included in the electronic record of "GMP Drawings".

### Tramstop Design

The Guaranteed Maximum Price is based on the Drawings as included in the electronic record of "GMP Drawings".

### Substation Design

The Guaranteed Maximum Price is based on the Drawings as included in the electronic record of "GMP Drawings".

### Protection of Services


The protection and support of services are excluded from the Guaranteed Maximum Price.

### Landscaping

In respect of landscaping works, Infraco shall be deemed to have met all requirements relevant to landscaping which are necessary to enable the issue of a Certificate of Sectional Completion provided that the only outstanding works relate to planting. Infraco shall then carry out the planting works at the beginning of the next planting season.

### Section 2A at Haymarket: Phase 1a/1b Interface Design

The Guaranteed Maximum Price is based on the Drawings as included in the electronic record of "GMP Drawings". The Guaranteed Maximum Price does not include any work within Section 3A as part of Phase 1a or Phase 1b.



### 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

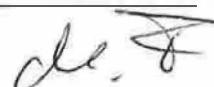
Infraco is responsible for obtaining CEC's acceptance and agreement. To date, CEC has not responded within the Approval Period as specified within the Infraco Contract. Any required Change due to late comments by CEC will be dealt with separately as a tie Change and an appropriate tie Change Order will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



#### 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

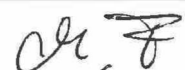
Cable duct connections between ETN and the Urban Traffic Control (UTC) and the City in View CCTV Control in a size of 150 mm diameter are not allowed in the Guaranteed Maximum Price due to an outstanding clarification on the right of way and the related design.

#### 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

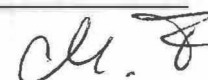
Infraco will carry out all necessary assurance statements, approvals and consents for the design, construction, testing and commissioning of the Edinburgh Tram Network in respect of those parts defined in this Proposal, with respect to the Safety Assurance Plan to enable tie to comply with ROGS and other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



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.

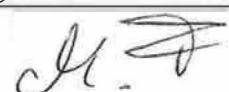
#### Tram Supply;

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.

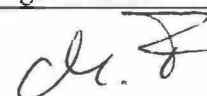


For the sake of clarity, these tie Changes have been excluded from the Guaranteed Maximum Price scope as it is recognised that it is entirely within the gift of tie to choose not to amend the current design presented and thereby mitigating cost and programme impact. Having reviewed the potential tie 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.



### 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 .



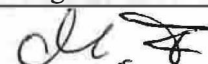
## Maintenance Pricing

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**

<b>Infraco</b>	<b>Value</b>
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
<b>CAF</b>	<b>Value</b>
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)





## 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.



The GMP Programme assumes that all 3<sup>rd</sup> 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.

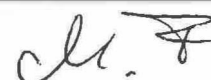
Pedestrian traffic will be catered for by controlled crossing points at specified locations, yet to be mapped.

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).



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.

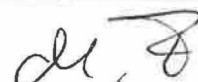
## **Section 5C**

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.



## Section 7A

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

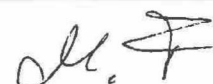
The Programme also assumes that BAA will grant a licence for works on their land to recommence on 24 August 2010.

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, Infracore reserves the right to 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 you 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 1 A 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 5 A 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 7 A 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.



## 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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# EDINBURGH TRAM NETWORK

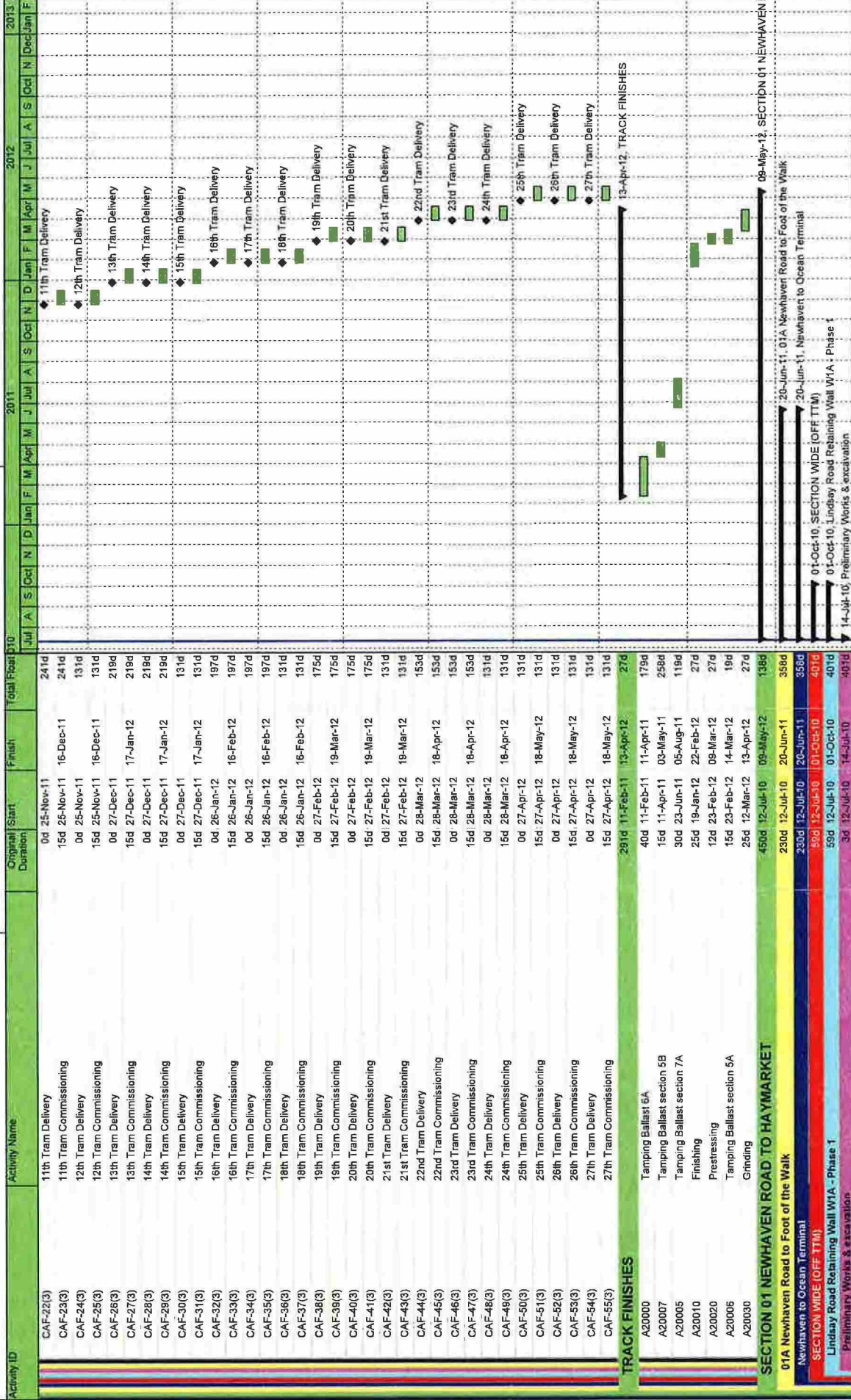
Activity ID	Activity Name	Original Start	Finish	Total Float/D10
<b>Project Carlisle Programme (100729)</b>				
<b>KEY DATES</b>				
1000	Delivery/handover of all Siemens material to site	583d 12-Jul-10	19-Nov-12	0d
313	Section Completion A	0d	10-Mar-11	0d
314	Section Completion B	0d	24-May-11	375d
281	Construction Completion Phase 1a Edinburgh Haymarket	0d	15-Sep-11	286d
315	Section Completion C	0d	22-May-12	1d
310	Commencement of Revenue Service Phase 1a Edinburgh Airport to Haymarket	0d	20-Aug-12	1d
325	Section Completion D	0d	19-Nov-12	0d
<b>COMMISSIONING PHASE EDINBURGH AIRPORT TO HAYMARKET</b>				
300	System Integration Test; Phase 1a Edinburgh Airport to Haymarket	129d 22-May-12	18-Nov-12	0d
301	Test Running and Driver Familiarisation; Phase 1a Edinburgh Airport to Haymarket	30d 22-May-12	21-Jun-12	1d
302	T1 Post-Commissioning Test completed; Phase 1a Edinburgh Airport to Haymarket	30d 21-Jun-12	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
<b>TRAM DELIVERY &amp; COMMISSIONING</b>				
<b>Deliver &amp; Commission First Tram</b>				
CAF-01(3)	Depot available for delivery of first Tram	259d 04-May-11	18-May-12	131d
CAF-02(3)	1st Tram Delivery & Inspection	94d 04-May-11	15-Sep-11	120d
CAF-03(3)	Commission First Tram	0d 04-May-11	186d	186d
<b>Deliver &amp; Commission Remaining 26 Trams</b>				
CAF-04(3)	2nd Tram Delivery	1d 04-May-11	04-May-11	186d
CAF-05(3)	2nd Tram Commissioning	40d 21-Jul-11	15-Sep-11	131d
CAF-06(3)	3rd Tram Delivery	185d 18-Aug-11	18-May-12	131d
CAF-07(3)	3rd Tram Commissioning	0d 18-Aug-11	307d	307d
CAF-08(3)	4th Tram Delivery	20d 18-Aug-11	15-Sep-11	307d
CAF-09(3)	4th Tram Commissioning	0d 18-Aug-11	307d	307d
CAF-10(3)	5th Tram Delivery	0d 18-Aug-11	131d	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	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	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	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	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	131d
CAF-21(3)	10th Tram Commissioning	15d 26-Oct-11	16-Nov-11	131d

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 Summary

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# EDINBURGH TRAM NETWORK



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■ Remaining Work  
■ Actual Work  
◆ Milestone  
◆ Critical Remaining Work  
▶ Summary

Checked: SSC/MHE  
 Approved: BSC

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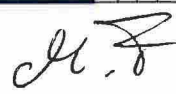
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# EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float (h)	2011	2012	2013
1A-24-W1A-110	Excavation	3d 12-Jul-10	14-Jul-10	401d			
<b>RW Structure</b>							
1A-24-W1A-120	RW Foundation	24d 15-Jul-10	18-Aug-10	401d			
1A-24-W1A-130	RC Wall	5d 15-Jul-10	21-Jul-10	401d			
1A-24-W1A-140	Coping	7d 26-Jul-10	04-Aug-10	401d			
<b>RW Finishing Works and Backfilling</b>							
1A-24-W1A-150	Waterproofing	2d 25-Aug-10	26-Aug-10	401d			
1A-24-W1A-160	Brickwork	3d 27-Aug-10	31-Aug-10	401d			
1A-24-W1A-170	Drainage	2d 01-Sep-10	02-Sep-10	401d			
1A-24-W1A-180	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-W1A-370	LINDSAY ROAD RW W1A - PHASE 1 (4 OF 21 UNITS) COMPLETE	0d	01-Oct-10	401d			
<b>Lindsay Road Retaining Wall W1D</b>							
<b>Preliminary works &amp; excavation</b>							
1A-24-W1D-100	Mobilisation and site installation	32d 29-Jul-10	13-Sep-10	325d			
1A-24-W1D-110	Excavation	2d 29-Jul-10	30-Jul-10	325d			
1A-24-W1D-120	RW Foundation	1d 30-Jul-10	30-Jul-10	325d			
1A-24-W1D-130	RC Wall	7d 03-Aug-10	11-Aug-10	325d			
<b>RW Finishing Works and Backfilling</b>							
1A-24-W1D-140	Waterproofing	15d 05-Aug-10	20-Aug-10	325d			
1A-24-W1D-150	Drainage	7d 12-Aug-10	23-Aug-10	325d			
1A-24-W1D-160	Stone drainage trench	15d 24-Aug-10	13-Sep-10	325d			
1A-24-W1D-170	Brickwork	1d 24-Aug-10	24-Aug-10	325d			
1A-24-W1D-180	Backfill and compact	1d 25-Aug-10	25-Aug-10	325d			
1A-24-W1D-190	Vehicle Parapets + Crash Barrier	1d 26-Aug-10	26-Aug-10	325d			
1A-24-W1D-200	Kerbing	1d 27-Aug-10	27-Aug-10	325d			
1A-24-W1D-210	Footway and Road Surfacing	1d 30-Aug-10	30-Aug-10	325d			
1A-24-W1D-220	LINDSAY ROAD RW W1D COMPLETE	10d 31-Aug-10	13-Sep-10	325d			
<b>Lindsay Road Retaining Wall W1C</b>							
<b>RW Structure</b>							
1A-24-W1C-140	Coping	28d 12-Jul-10	12-Aug-10	347d			
<b>RW Finishing Works and Backfilling</b>							
1A-24-W1C-150	Waterproofing	6d 12-Jul-10	19-Jul-10	325d			
1A-24-W1C-160	Drainage	6d 12-Jul-10	19-Jul-10	325d			
1A-24-W1C-170	Stone drainage trench	17d 20-Jul-10	12-Aug-10	347d			
1A-24-W1C-180	Brickwork	1d 20-Jul-10	20-Jul-10	325d			
1A-24-W1C-180	Backfill and compact	1d 21-Jul-10	21-Jul-10	325d			
1A-24-W1C-200	Vehicle Parapets + Crash Barrier	3d 22-Jul-10	26-Jul-10	325d			
1A-24-W1C-210	Kerbing	1d 27-Jul-10	27-Jul-10	325d			
1A-24-W1C-220	Footway and Road Surfacing	1d 28-Jul-10	28-Jul-10	325d			
1A-24-W1C-230	LINDSAY ROAD RW W1C COMPLETE	10d 29-Jul-10	12-Aug-10	347d			
<b>TTM PHASE 5B (LINDSAY ROAD WEST BOUND)</b>							
1A-24-TTM-05B-1000	TTM - PHASE 5B - Lindsay Road EB closed	104d 16-Aug-10	24-Jan-11	332d			
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			
<b>TEMPORARY AND PRELIMINARY WORKS</b>							

■ Remaining Work    ■ Critical Remaining Work    ■ Summary  
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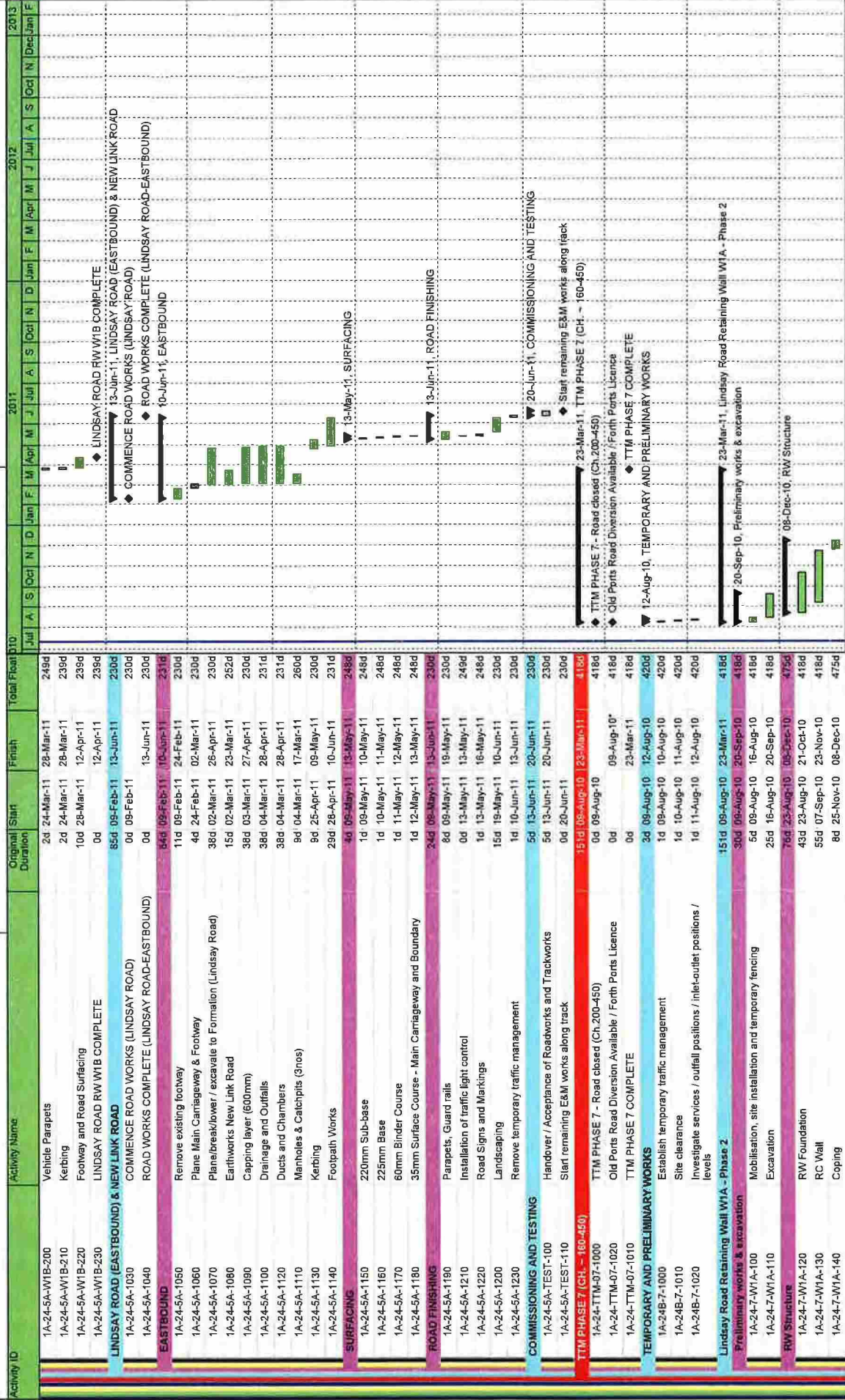
# EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float	2011	2012	2013
1A-24-5B-1000	Establish temporary traffic management	1d 16-Aug-10	17-Aug-10	2300			
1A-24-5B-1010	Site clearance	5d 17-Aug-10	24-Aug-10	2300			
1A-24-5B-1020	Investigate services / outfall positions / inlet-outlet positions / levels	1d 24-Aug-10	25-Aug-10	2300			
<b>LINDSAY ROAD (WESTBOUND)</b>							
1A-24-5B-1030	COMMENCE ROAD WORKS (LINDSAY ROAD-WESTBOUND)	8d 25-Aug-10	17-Jan-11	2300			
1A-24-5B-1040	ROAD WORKS COMPLETE (LINDSAY ROAD)	0d 25-Aug-10	17-Jan-11	2300			
<b>WESTBOUND</b>							
1A-24-5B-1050	Remove existing footway	3d 25-Aug-10	11-Jan-11	2300			
1A-24-5B-1060	Plane Main Carriageway & Footway	5d 25-Aug-10	01-Sep-10	2300			
1A-24-5B-1070	Plane/break/lower / excavate to Formation (Lindsay Road)	5d 01-Sep-10	08-Sep-10	2300			
1A-24-5B-1080	Capping layer (600mm)	48d 08-Sep-10	16-Nov-10	2300			
1A-24-5B-1090	Drainage and Outfalls	48d 09-Sep-10	17-Nov-10	2320			
1A-24-5B-1100	Ducts and Chambers	48d 10-Sep-10	18-Nov-10	2300			
1A-24-5B-1110	Kerbing	48d 10-Sep-10	18-Nov-10	2300			
1A-24-5B-1120	Footpath Works	10d 15-Nov-10	30-Nov-10	2320			
<b>SURFACING</b>							
1A-24-5B-1130	220mm Sub-base	27d 18-Nov-10	11-Jan-11	2300			
1A-24-5B-1140	225mm Base	4d 30-Nov-10	05-Dec-10	2480			
1A-24-5B-1150	60mm Binder Course	1d 01-Dec-10	02-Dec-10	2480			
1A-24-5B-1160	35mm Surface Course - Main Carriageway and Boundary	1d 02-Dec-10	03-Dec-10	2480			
<b>ROAD FINISHING</b>							
1A-24-5B-1170	Road Signs and Markings	20d 06-Dec-10	17-Jan-11	2300			
1A-24-5B-1180	Landscaping	1d 06-Dec-10	07-Dec-10	2480			
1A-24-5B-1190	Remove temporary traffic management	9d 20-Dec-10	14-Jan-11	2300			
<b>COMMISSIONING AND TESTING</b>							
1A-24-5B-TEST-100	Handover / Acceptance of Roadworks and Trackworks	1d 14-Jan-11	17-Jan-11	2300			
1A-24-5B-TEST-110	Start remaining E&M works along track	5d 17-Jan-11	24-Jan-11	3320			
<b>TTM PHASE 5A (LINDSAY ROAD EAST BOUND)</b>							
1A-24-TTM-05A-1000	TTM - PHASE 5A - Lindsay Road WB closed	102d 24-Jan-11	20-Jun-11	2300			
1A-24-TTM-05A-1010	TTM PHASE 5A COMPLETE	0d 24-Jan-11	20-Jun-11	2300			
<b>TEMPORARY AND PRELIMINARY WORKS</b>							
1A-24-5A-1000	Establish temporary traffic management	12d 24-Jan-11	09-Feb-11	2300			
1A-24-5A-1010	Site clearance	1d 24-Jan-11	25-Jan-11	2300			
1A-24-5A-1020	Investigate services / outfall positions / inlet-outlet positions / levels	10d 25-Jan-11	08-Feb-11	2300			
<b>Lindsay Road Retaining Wall WIB</b>							
<b>Preliminary works &amp; excavation</b>							
1A-24-5A-W1B-100	Mobilisation, site installation and temporary fencing	55d 24-Jan-11	12-Apr-11	2390			
1A-24-5A-W1B-110	Demolition	13d 24-Jan-11	10-Feb-11	2390			
1A-24-5A-W1B-120	Excavation	10d 25-Jan-11	08-Feb-11	2390			
<b>RW Structure</b>							
1A-24-5A-W1B-130	RW Foundation	20d 10-Feb-11	10-Mar-11	2390			
1A-24-5A-W1B-140	RC Wall	9d 10-Feb-11	23-Feb-11	2390			
<b>RW Finishing Works and Backfilling</b>							
1A-24-5A-W1B-150	Waterproofing	11d 23-Feb-11	10-Mar-11	2390			
1A-24-5A-W1B-160	Drainage	22d 10-Mar-11	12-Apr-11	2390			
1A-24-5A-W1B-170	Stone drainage trench	2d 10-Mar-11	14-Mar-11	2390			
1A-24-5A-W1B-180	Brickwork	5d 14-Mar-11	21-Mar-11	2390			
1A-24-5A-W1B-180	Backfill and compact	2d 21-Mar-11	23-Mar-11	2390			

■ Remaining Work   
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# EDINBURGH TRAM NETWORK

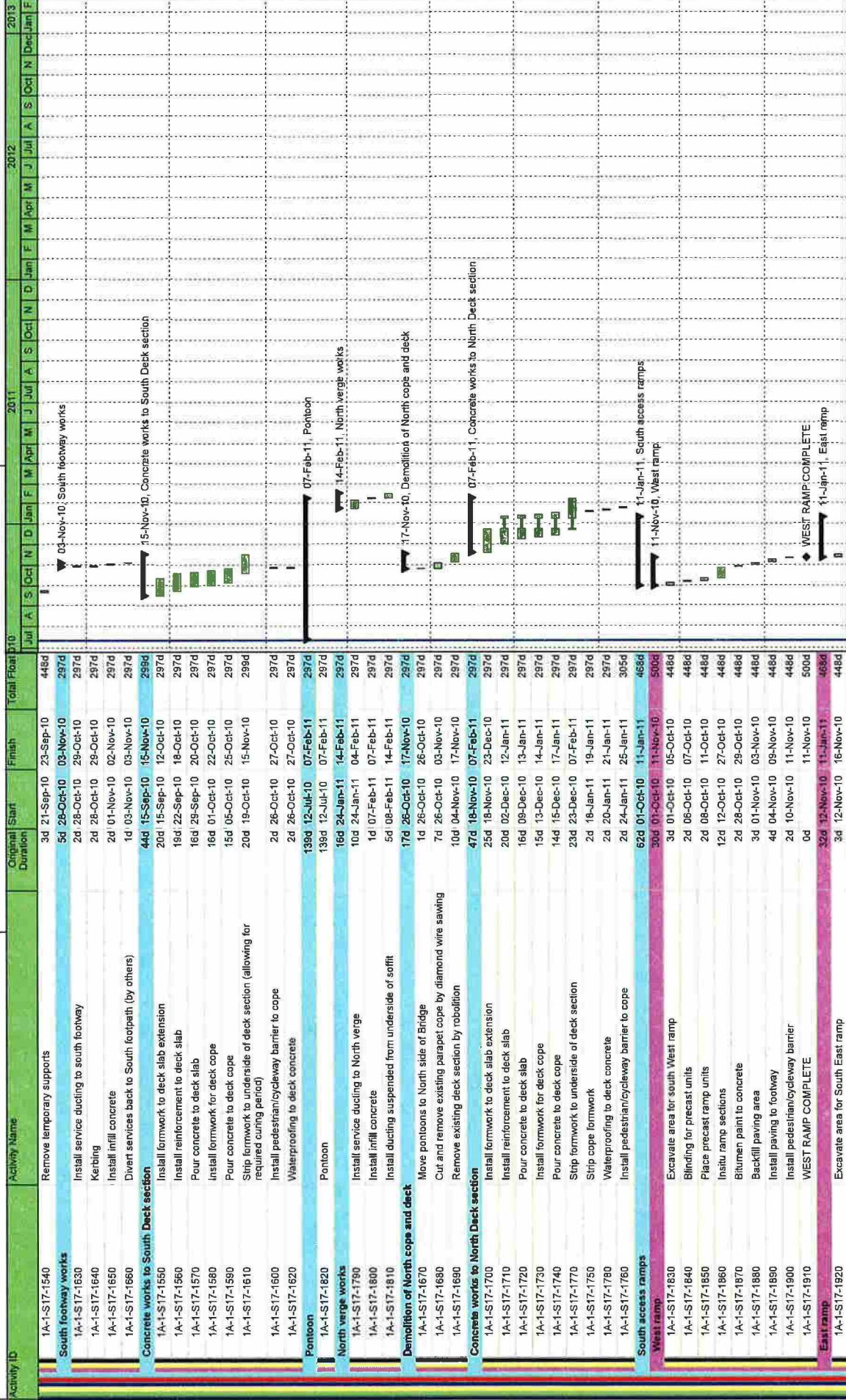
Activity ID	Activity Name	Original Start Duration	Finish	Total Float P10	2011	2012	2013
<b>RW Finishing Works and Backfilling</b>							
1A-24-7-W1A-150	Waterproofing	8d 02-Dec-10	23-Mar-11	418d			
1A-24-7-W1A-160	Drainage	8d 09-Dec-10	21-Dec-10	418d			
1A-24-7-W1A-190	Brickwork	13d 15-Dec-10	17-Jan-11	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			
<b>Ocean Terminal to Port of Leith</b>							
1A-1-S17-1000	TOWER PLACE BRIDGE (S17) STRUCTURE COMPLETE	153d 12-Jul-10	11-Mar-11	425d			
<b>Procurement</b>							
1A-1-S17-1010	Precast beams	77d 12-Jul-10	27-Oct-10	434d			
1A-1-S17-1020	Precast ramp units	11d 12-Jul-10	26-Jul-10	326d			
1A-1-S17-1030	Ducting	60d 12-Jul-10	04-Oct-10	451d			
<b>Works to East Abutment</b>							
1A-1-S17-1130	Install temporary works to excavation	30d 16-Sep-10	27-Oct-10	297d			
1A-1-S17-1140	Demolition of existing abutment structure	18d 12-Jul-10	05-Aug-10	312d			
1A-1-S17-1160	Install reinforcement to abutment base	1d 12-Jul-10	12-Jul-10	297d			
1A-1-S17-1170	Construct formwork to abutment base	6d 13-Jul-10	20-Jul-10	297d			
1A-1-S17-1180	Pour concrete to base	4d 21-Jul-10	26-Jul-10	297d			
1A-1-S17-1190	Strip base formwork	2d 27-Jul-10	28-Jul-10	312d			
1A-1-S17-1200	Construct formwork to ballast walls	1d 29-Jul-10	29-Jul-10	312d			
1A-1-S17-1210	Pour concrete to ballast walls	1d 30-Jul-10	30-Jul-10	312d			
<b>Works to East, West and Central Piers</b>							
1A-1-S17-1230	Demolition to expose existing reinforcement on south side of pier	2d 03-Aug-10	04-Aug-10	310d			
1A-1-S17-1240	Dowel bars to existing pile cap	1d 05-Aug-10	05-Aug-10	310d			
1A-1-S17-1270	Installation of prefabricated pier base reinforcement cage	2d 06-Aug-10	08-Aug-10	311d			
1A-1-S17-1280	Pour concrete to bases	4d 12-Jul-10	15-Jul-10	320d			
1A-1-S17-1290	Shutter and pour concrete/grout to bearing plinth	2d 16-Jul-10	19-Jul-10	320d			
1A-1-S17-1300	Install reinforcement to abutment base	1d 20-Jul-10	20-Jul-10	320d			
1A-1-S17-1380	Construct formwork to abutment base	2d 21-Jul-10	22-Jul-10	320d			
1A-1-S17-1390	Pour concrete to base	1d 23-Jul-10	23-Jul-10	320d			
1A-1-S17-1400	Construct formwork to ballast walls	2d 27-Jul-10	28-Jul-10	297d			
1A-1-S17-1410	Pour concrete to ballast walls	6d 29-Jul-10	06-Aug-10	297d			
1A-1-S17-1420	Cut Back existing capping beam and sheet piling	14d 09-Aug-10	26-Aug-10	297d			
1A-1-S17-1350	Demolition of existing abutment structure	4d 09-Aug-10	12-Aug-10	297d			
1A-1-S17-1360	Demolition of South cope and deck	10d 13-Aug-10	26-Aug-10	297d			
1A-1-S17-1460	Cut and remove existing parapet cope by diamond wire saw	20d 27-Aug-10	23-Sep-10	448d			
1A-1-S17-1480	Remove existing deck section by robbollion	4d 27-Aug-10	01-Sep-10	297d			
<b>Installation of precast beams and bearings</b>							
1A-1-S17-1490	Erection of temporary works to support beams	3d 02-Sep-10	06-Sep-10	297d			
1A-1-S17-1500	Bearing base plates grouted into position	1d 07-Sep-10	07-Sep-10	297d			
1A-1-S17-1510	Installation of precast beams	5d 08-Sep-10	14-Sep-10	297d			
1A-1-S17-1510	Installation of bearings including all grouting	4d 15-Sep-10	20-Sep-10	448d			
1A-1-S17-1520	Allow grout to achieve required compressive strength						
1A-1-S17-1530							

■ Remaining Work   
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# EDINBURGH TRAM NETWORK



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Activity ID	Activity Name	Original Start	Finish	Total Float/D10	2011	2012	2013
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			
<b>Haymarket Junction / Shandwick Place (Sections 1D Ch.130.380 to 2A Ch.200.030)</b>				14d			
<b>MUDFA &amp; Utilities Completions</b>				14d			
1D-14-1065	Utility completion Haymarket Junction	0d 07-Sep-10	07-Sep-10	14d			
1D-15-1075	Utility completion Shandwick Place area	0d 07-Sep-10	07-Sep-10	14d			
<b>Traffic Management</b>				14d			
1D-14-1055	Enabling Works - Haymarket Junction	21d 07-Sep-10	05-Oct-10	14d			
1D-15-1016	Enabling Works - Shandwick Place	7d 07-Sep-10	16-Sep-10	10d			
1D-14-H1-928	TM Phase H1 - (Main Area - Eastbound Side)	19d 07-Sep-10	04-Oct-10	14d			
1D-15-SP1-935	TM Phase Ch.130.960 - 130.380 (Palmerston Place - Princes Street)	2d 14-Sep-10	16-Sep-10	10d			
<b>Phases SP1,2,3,4,5,6,7, Ch.130.960 - 130.380 (Palmerston Place - Princes Street)</b>				14d			
<b>Section Wide</b>				15d			
1D-14/15-469	Erect Pedestrian Barrier	37d 05-Oct-10	20-Nov-12	83d			
1D-14/15-730	Protect Dwarf Walls (Listed Monuments)	32d 06-Oct-10	15-Feb-12	14d			
1D-14/15-501	Tree Removal	0d 13-Oct-10	13-Oct-10	14d			
1D-14/15-493	Investigate services / outfall positions / inlet-outfall positions / levels	4d 13-Oct-10	19-Oct-10	14d			
1D-14/15-502	Site Clearance & Site Compound	4d 13-Oct-10	19-Oct-10	45d			
1D-14/15-JNCS-60	Installation of traffic light control - Junction 41	3d 14-Oct-10	19-Oct-10	14d			
1D-14/15-JNCS-70	Installation of traffic light control - Junction 42	11d 22-Dec-11	20-Jan-12	88d			
1D-14/15-JNCS-80	Installation of traffic light control - Junction 43	5d 20-Jan-12	27-Jan-12	83d			
1D-14/15-JNCS-90	Installation of traffic light control - Junction 44	4d 27-Jan-12	02-Feb-12	83d			
1D-14/15-JNCS-100	Installation of traffic light control - Junction 45	6d 02-Feb-12	10-Feb-12	83d			
<b>Phase SP1 - Inbound Ch.130.670 - 130.380 (Crescents to Princes Street)</b>				131d			
1D-140-SP1-595	Plane Main Carriageway 250mm	101d 15-Oct-10	22-Mar-11	14d			
1D-140-SP1-514	Core/Cast OLE Pole Foundations	4d 19-Oct-10	25-Oct-10	75d			
1D-140-SP1-516	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	5d 19-Oct-10	26-Oct-10	14d			
1D-140-SP1-497	Remove existing kerbs	13d 25-Oct-10	15-Nov-10	14d			
1D-140-SP1-488	Check suitability of formation (ongoing)	0d 25-Oct-10		24d			
1D-140-SP1-489	Capping Layer to Adjacent Carriageway (600mm)	5d 08-Nov-10	15-Nov-10	16d			
1D-140-SP1-820	Make good Formation with Type 1 (Ave 220mm)	2d 15-Nov-10	17-Nov-10	14d			
1D-140-SP1-511	Installation of IMU Drains and Cable Ducting	2d 17-Nov-10	19-Nov-10	14d			
1D-140-SP1-512	Carry out inspection and testing of Subgrade	1d 19-Nov-10	22-Nov-10	14d			
1D-140-SP1-513	Blinding Concrete	4d 22-Nov-10	26-Nov-10	14d			
1D-140-SP1-654	250mm RC Improvement Slab (+ cure lag)	8d 26-Nov-10	17-Jan-11	14d			
1D-140-SP1-665	Access for Track Laying	0d 19-Jan-11		14d			
1D-140-SP1-596	Installation of Noise & Vibration Mat (if reqd)	0d 19-Jan-11		14d			
1D-140-TRCK-70(3)	Set track (1x28m)(sleepers/rail) + mob	14d 19-Jan-11	08-Feb-11	14d			
1D-140-SP1-508	Welding & Grinding	8d 20-Jan-11	01-Feb-11	14d			
1D-140-SP1-499	Drainage / Rail Connections	8d 20-Jan-11	01-Feb-11	33d			
1D-140-SP1-830	Installation of IMU Boxes and Loops	8d 20-Jan-11	01-Feb-11	14d			
1D-140-SP1-521	Final Rail Alignment - Check and Approve	8d 21-Jan-11	02-Feb-11	14d			
1D-140-SP1-522	230mm Concrete Supporting Layer (+ cure lag)	10d 25-Jan-11	08-Feb-11	30d			
1D-140-SP1-655	OLE Wall Fixings Inbound	6d 08-Feb-11	16-Feb-11	51d			

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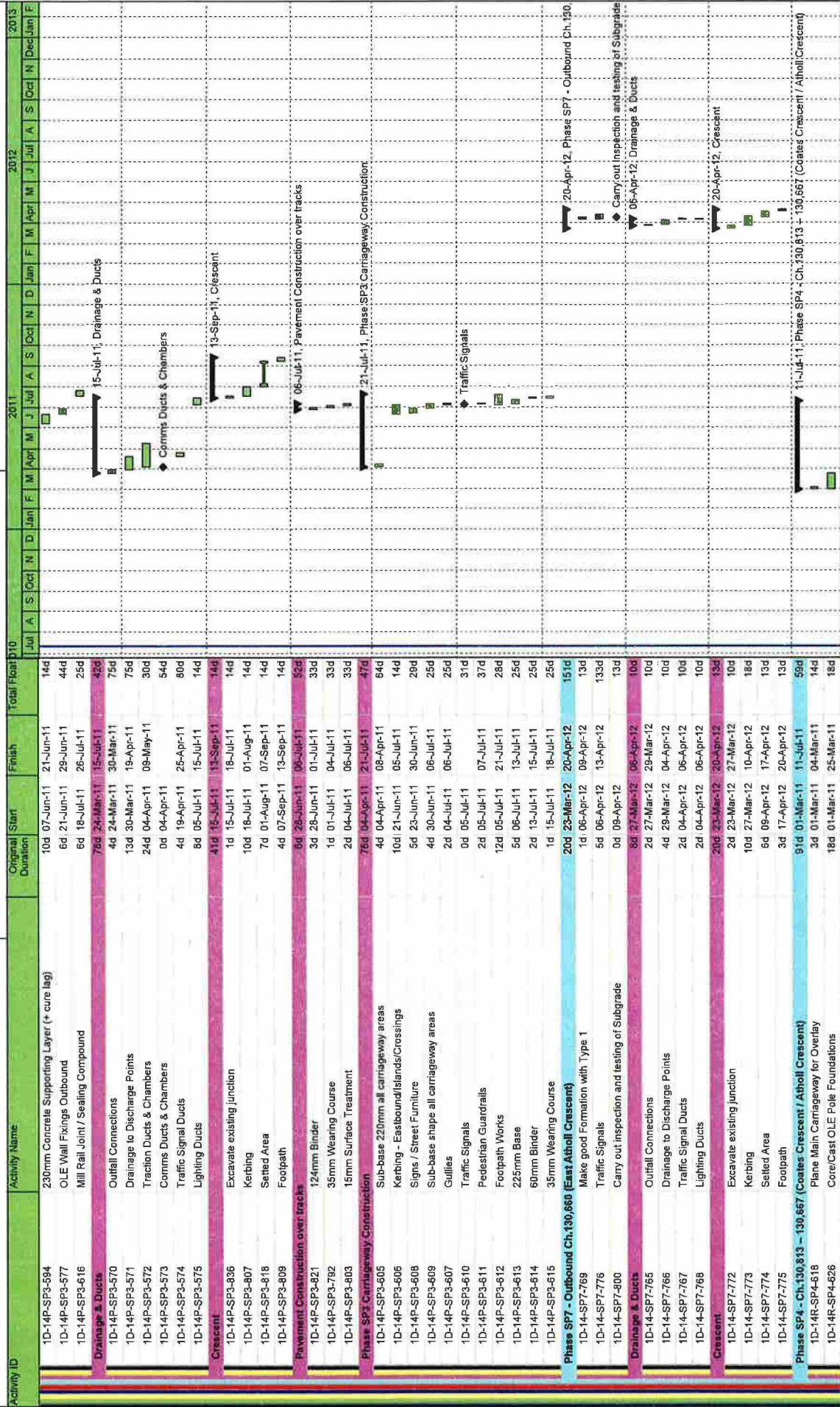
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29-Jul-10	Project Carlisle Programme	ISSC/MHE	IBSC

# EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float D10	2011	2012	2013
					Jul A S Oct N D Jan F M Apr M J Jul A S Oct N D Dec Jan F	Jan F M Apr M J Jul A S Oct N D Dec Jan F	Jan F M Apr M J Jul A S Oct N D Dec Jan F
1D-140-SP1-523	Mill Rail Joint / Sealing Compound	6d 03-Mar-11	11-Mar-11	34d			
<b>Drainage &amp; Ducts</b>							
1D-140-SP1-487	Outfall Connections	9d 15-Oct-10	22-Feb-11	151d			
1D-140-SP1-478	Drainage to Discharge Points	14d 25-Oct-10	16-Nov-10	72d			
1D-140-SP1-680	Traction Ducts & Chambers	0d 15-Nov-10		35d			
1D-140-SP1-491	Comms Ducts & Chambers	17d 15-Nov-10	17-Jan-11	16d			
1D-140-SP1-479	Aco Channel	3d 16-Nov-10	19-Nov-10	171d			
1D-140-SP1-492	Traffic Signal Ducts	4d 16-Nov-10	22-Nov-10	76d			
1D-140-SP1-483	Lighting Ducts	2d 18-Feb-11	22-Feb-11	30d			
<b>Crescent</b>							
1D-140-SP1-504	Excavate existing junction	20d 22-Feb-11	22-Mar-11	30d			
1D-140-SP1-515	Kerbing	1d 22-Feb-11	23-Feb-11	30d			
1D-140-SP1-515	Kerbing	10d 23-Feb-11	09-Mar-11	30d			
1D-140-SP1-506	Settled Area	6d 09-Mar-11	17-Mar-11	30d			
1D-140-SP1-507	Footpath	3d 17-Mar-11	22-Mar-11	30d			
<b>Pavement Construction over tracks</b>							
1D-140-SP1-519	124mm Binder	6d 15-Feb-11	23-Feb-11	40d			
1D-140-SP1-850	35mm Wearing Course	3d 15-Feb-11	18-Feb-11	40d			
1D-140-SP1-850	35mm Wearing Course	1d 18-Feb-11	21-Feb-11	40d			
1D-140-SP1-601	15mm Surface Treatment	2d 21-Feb-11	23-Feb-11	40d			
<b>Phase SP1 Carriageway Construction</b>							
1D-140-SP1-1003	Sub-base 220mm all carriageway areas	07d 15-Nov-10	03-Mar-11	144d			
1D-140-SP1-1004	Kerbing - Eastbound/Islands/Crossings	4d 15-Nov-10	19-Nov-10	59d			
1D-140-SP1-1006	Signs / Street Furniture	8d 08-Feb-11	18-Feb-11	30d			
1D-140-SP1-987	Sub-base shape all carriageway areas	5d 10-Feb-11	17-Feb-11	36d			
1D-140-SP1-1035	Gullies	3d 16-Feb-11	21-Feb-11	34d			
1D-140-SP1-1008	Traffic Signals	2d 17-Feb-11	21-Feb-11	34d			
1D-140-SP1-989	Footpath Works	0d 18-Feb-11		40d			
1D-140-SP1-1180	225mm Base	6d 18-Feb-11	28-Feb-11	128d			
1D-140-SP1-1021	60mm Binder	5d 21-Feb-11	28-Feb-11	34d			
1D-140-SP1-992	35mm Wearing Course	2d 28-Feb-11	02-Mar-11	34d			
<b>Phase SP3 - Outbound Ch.130,870 - 130,380 (Crescents to Princes Street)</b>							
1D-14P-SP3-568	Plane Main Carriageway 250mm	121d 22-Mar-11	13-Sep-11	14d			
1D-14P-SP3-576	Core/Cast OLE Pole Foundations	2d 22-Mar-11	24-Mar-11	30d			
1D-14P-SP3-578	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	4d 22-Mar-11	28-Mar-11	72d			
1D-14P-SP3-579	Remove existing kerbs	6d 24-Mar-11	04-Apr-11	30d			
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	6d 03-Jun-11	15-Jun-11	14d			

■ Remaining Work   
 ■ Critical Remaining Work   
 ■ Actual Work   
 ◆ Milestone   
 ◆ Summary

# EDINBURGH TRAM NETWORK



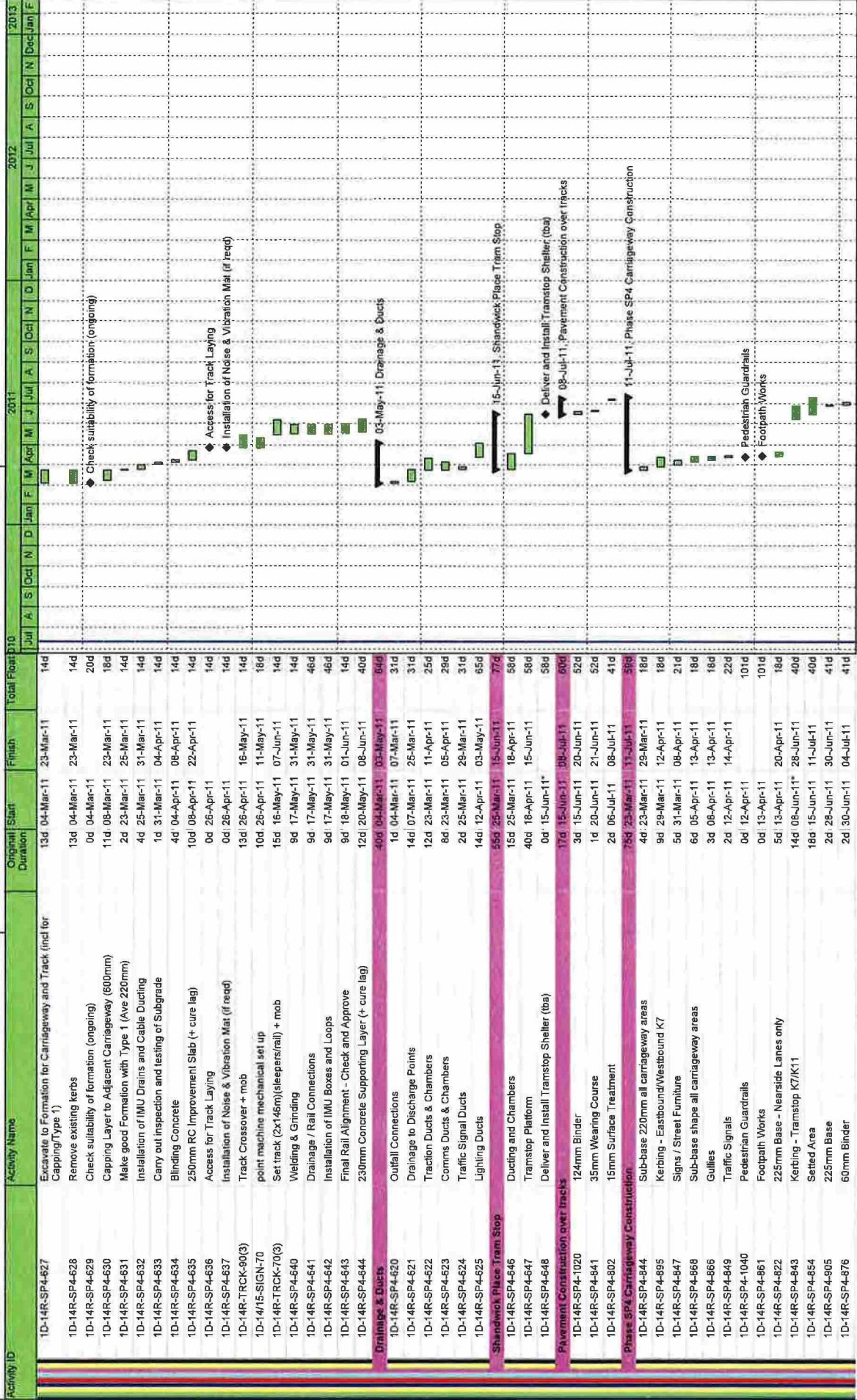
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Date	Revision	Checked	Approved
29-Jul-10	Project Carlisle Programme	SSC/MHE	BSC

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# EDINBURGH TRAM NETWORK



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Checked: SSC/MHE  
Approved: BSC

# EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float	2011	2012	2013
1D-14R-SP4-857	35mm Wearing Course	2d 04-Jul-11	06-Jul-11	41d			
<b>Phase SP5 - Outbound Ch:130.850 - 130.813 (Palmerston Place - Crescents)</b>							
1D-14W-SP5-709	Plane Main Carriageway 250mm	30d 13-Sep-11	07-Nov-11	14d			
1D-14W-SP5-727	Core/Cast OLE Pole Foundations	1d 13-Sep-11	14-Sep-11	14d			
1D-14W-SP5-738	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	2d 13-Sep-11	15-Sep-11	19d			
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	16-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	18d			
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	04-Oct-11	14d			
1D-14W-SP5-748	Installation of Noise & Vibration Mat (if reqd)	0d 04-Oct-11	12-Oct-11	14d			
1D-14W-TRCK-70(3)	Set track (1x35m)(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-SP5-793	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			
<b>Drainage &amp; Ducts</b>							
1D-14W-SP5-731	Outfall Connections	11d 13-Sep-11	28-Sep-11	42d			
1D-14W-SP5-712	Drainage to Discharge Points	2d 13-Sep-11	15-Sep-11	24d			
1D-14W-SP5-713	Traction Ducts & Chambers	3d 15-Sep-11	20-Sep-11	24d			
1D-14W-SP5-744	Comms Ducts & Chambers	3d 16-Sep-11	21-Sep-11	23d			
1D-14W-SP5-795	Traffic Signal Ducts	0d 16-Sep-11	16-Sep-11	26d			
1D-14W-SP5-746	Lighting Ducts	0d 20-Sep-11	20-Sep-11	24d			
<b>Pavement Construction over tracks</b>							
1D-14W-SP5-846	124mm Binder	2d 26-Sep-11	28-Sep-11	39d			
1D-14W-SP5-827	35mm Wearing Course	5d 19-Oct-11	26-Oct-11	17d			
1D-14W-SP5-838	15mm Surface Treatment	1d 19-Oct-11	20-Oct-11	14d			
<b>Crescent</b>							
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	Seeded Area	6d 30-Sep-11	10-Oct-11	28d			
1D-14W-SP5-823	Footpath	3d 10-Oct-11	13-Oct-11	28d			
<b>Phase SP5 Carriageway Construction (incl crescent)</b>							
1D-14W-SP5-845	Sub-base 220mm all carriageway areas	27d 16-Sep-11	25-Oct-11	23d			
1D-14W-SP5-876	Kerbing - Eastbound/Islands/Crossings	4d 16-Sep-11	22-Sep-11	14d			
1D-14W-SP5-787	Gullies	2d 23-Sep-11	27-Sep-11	18d			
1D-14W-SP5-798	Signs / Street Furniture	5d 28-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	26-Sep-11	20d			
1D-14W-SP5-791	Footpath Works	10d 26-Sep-11	10-Oct-11	31d			
1D-14W-SP5-782	225mm Base	1d 03-Oct-11	04-Oct-11	14d			

Date: 29-Jul-10  
 Checked: SSC/MHE  
 Approved: BSC  
 Project: Carlisle Programme  
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 Legend:  
 Remaining Work (Green)  
 Actual Work (Blue)  
 Critical Remaining Work (Red)  
 Milestone (Diamond)

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EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float B10	2011	2012	2013
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			
<b>Phase SP6 - Inbound Ch.130,960 - 130,813 (Palmerston Place - Crescents)</b>							
1D-14X-SP6-886	Core/Cast OLE Pole Foundations	8d 07-Nov-11	23-Mar-12	10d			
1D-14X-SP6-878	Plane Main Carriageway 250mm	3d 07-Nov-11	10-Nov-11	21d			
1D-14X-SP6-888	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	2d 11-Nov-11	15-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			
<b>Drainage &amp; Ducts</b>							
1D-14X-SP6-1120	Outfall Connections	4d 07-Nov-11	18-Jan-12	57d			
1D-14X-SP6-951	Drainage to Discharge Points	1d 15-Nov-11	24-Nov-11	16d			
1D-14X-SP6-922	Traction Ducts & Chambers	7d 21-Nov-11	30-Nov-11	28d			
1D-14X-SP6-933	Comms Ducts & Chambers	7d 21-Nov-11	30-Nov-11	28d			
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			
<b>Pavement Construction over tracks</b>							
1D-14X-SP6-856	124mm Binder	6d 17-Feb-12	27-Feb-12	29d			
1D-14X-SP6-837	35mm Wearing Course	2d 17-Feb-12	21-Feb-12	10d			
1D-14X-SP6-858	15mm Surface Treatment	1d 21-Feb-12	22-Feb-12	10d			
<b>Phase SP6 Carriageway Construction (incl crescent)</b>							
1D-14X-SP6-990	Sub-base 220mm all carriageway areas	78d 21-Nov-11	23-Mar-12	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 Crescents	20d 24-Feb-12	23-Mar-12	10d			
1D-14X-SP6-811	Road Signs and Markings	5d 24-Feb-12	02-Mar-12	25d			

■ Remaining Work     ■ Critical Remaining Work     ■ Summary  
◆ Milestone     ◆ Milestone

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# EDINBURGH TRAM NETWORK

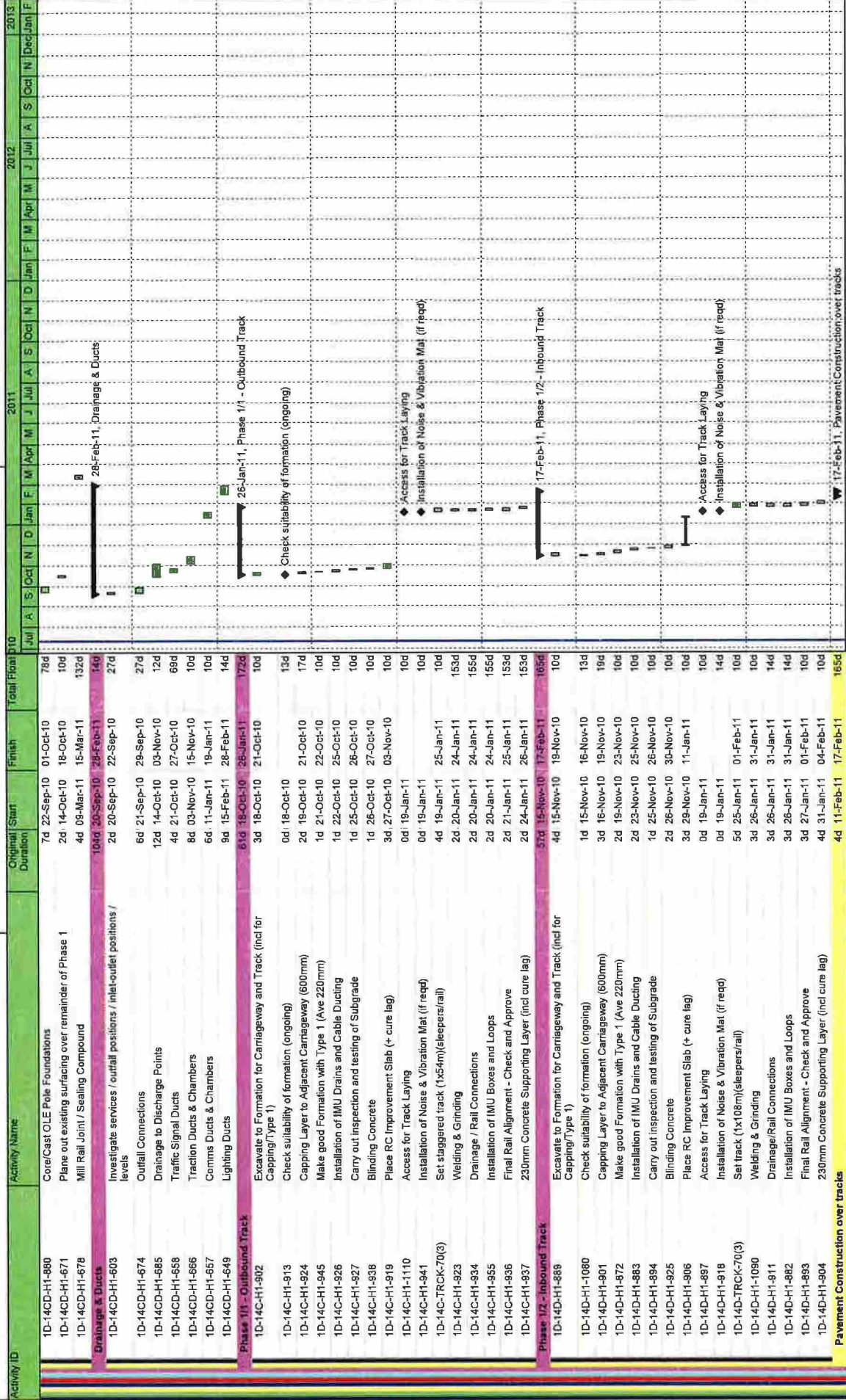
Activity ID	Activity Name	Original Duration	Finish	Total Float (D10)	2011	2012	2013
					Jul	Aug	Sep
<b>Phase SP2 - Outbound Ch.130.860 - 130.850 (Palmerston Place - Crescents)</b>							
1D-14V-SP2-525	Plane Main Carriageway 250mm	8d	22-Oct-10	14d			
1D-14V-SP2-535	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	7d	15-Nov-10	21d			
1D-14V-SP2-536	Remove existing kerbs	7d	15-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	21d			
1D-14V-SP2-533	Core/Cast OLE Pole Foundations	3d	24-Nov-10	22d			
1D-14V-SP2-539	Make good Formation with Type 1 (Ave 220mm)	1d	24-Nov-10	25d			
1D-14V-SP2-700	Installation of IMU Drains and Cable Ducting	2d	25-Nov-10	26d			
1D-14V-SP2-541	Carry out inspection and testing of Subgrade	1d	29-Nov-10	25d			
1D-14V-SP2-542	Blinding Concrete	1d	30-Nov-10	25d			
1D-14V-SP2-543	250mm RC Improvement Slab (+ cure lag)	4d	10-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	14d			
1D-14V-SP2-547	Welding & Grinding	3d	03-Feb-11	14d			
1D-14V-SP2-548	Drainage / Rail Connections	3d	03-Feb-11	18d			
1D-14V-SP2-548	Installation of IMU Boxes and Loops	3d	03-Feb-11	18d			
1D-14V-SP2-710	Final Rail Alignment - Check and Approve	3d	04-Feb-11	14d			
1D-14V-SP2-551	230mm Concrete Supporting Layer (+ cure lag)	4d	08-Feb-11	14d			
1D-14V-SP2-534	OLE Wall Fixings Outbound	2d	14-Feb-11	23d			
<b>Drainage &amp; Ducts</b>							
1D-14V-SP2-527	Outfall Connections	52d	22-Oct-10	43d			
1D-14V-SP2-528	Drainage to Discharge Points	4d	22-Oct-10	45d			
1D-14V-SP2-531	Traction Signal Ducts	4d	05-Nov-10	45d			
1D-14V-SP2-529	Traction Ducts & Chambers	10d	24-Nov-10	26d			
1D-14V-SP2-720	Comms Ducts & Chambers	0d	24-Nov-10	36d			
1D-14V-SP2-532	Lighting Ducts	2d	17-Jan-11	43d			
<b>Pavement Construction over tracks</b>							
1D-14V-SP2-553	124mm Binder	5d	21-Feb-11	14d			
1D-14V-SP2-554	35mm Wearing Course	1d	21-Feb-11	14d			
1D-14V-SP2-555	15mm Surface Treatment	1d	28-Feb-11	14d			
<b>Phase SP2 Carriageway Construction</b>							
1D-14V-SP2-557	Sub-base 220mm all carriageway areas	57d	24-Nov-10	15d			
1D-14V-SP2-558	Kerbing - Eastbound/Islands/Crossings	4d	24-Nov-10	21d			
1D-14V-SP2-810	Signs / Street Furniture	6d	30-Nov-10	21d			
1D-14V-SP2-559	Gullies	5d	11-Jan-11	21d			
1D-14V-SP2-561	Sub-base shape all carriageway areas	1d	17-Jan-11	21d			
1D-14V-SP2-562	Traffic Signals	0d	17-Jan-11	26d			
1D-14V-SP2-563	Footpath Works	6d	17-Jan-11	39d			
1D-14V-SP2-564	225mm Base	4d	18-Jan-11	21d			
1D-14V-SP2-565	60mm Binder	2d	23-Feb-11	14d			
1D-14V-SP2-566	35mm Wearing Course	1d	25-Feb-11	14d			
<b>Haymarket Ch.131.250 - 131.050</b>							
<b>Phase H1 - Main Area - Eastbound Side</b>							
1D-14CD-H1-661	Erect Pedestrian Barrier	115d	16-Sep-10	149d			
1D-14CD-H1-662	Site Clearance & Site Compound	1d	17-Sep-10	80d			
1D-14CD-H1-663	Plane Main Carriageway Area - south of access lane over vo...	2d	20-Sep-10	10d			

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Legend:  
█ Remaining Work  
█ Critical Remaining Work  
█ Approved  
█ Project Carriageway Programme  
█ BSC  
█ Milestone  
█ Actual Work  
█ Summary

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# EDINBURGH TRAM NETWORK

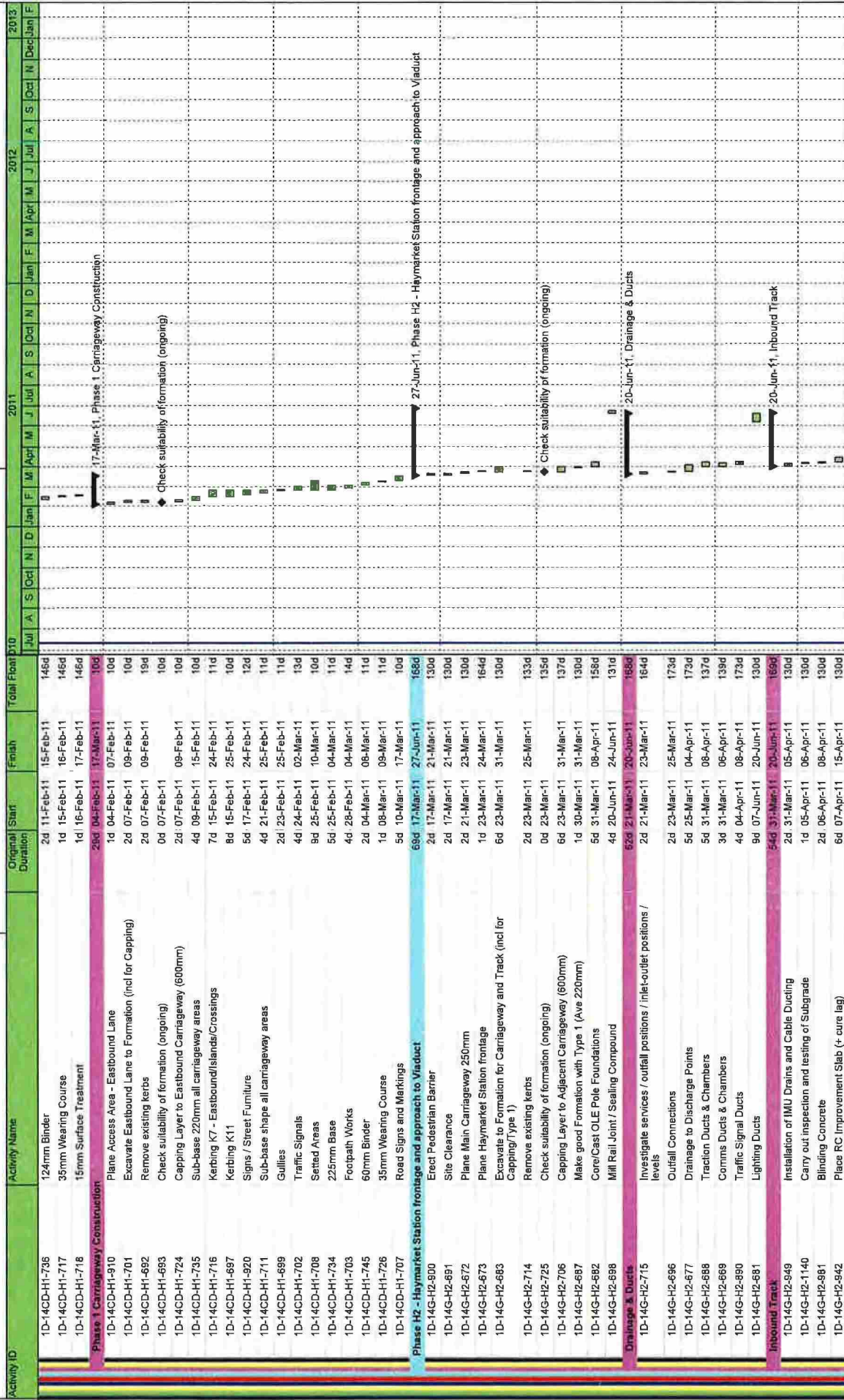


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◆ Milestone

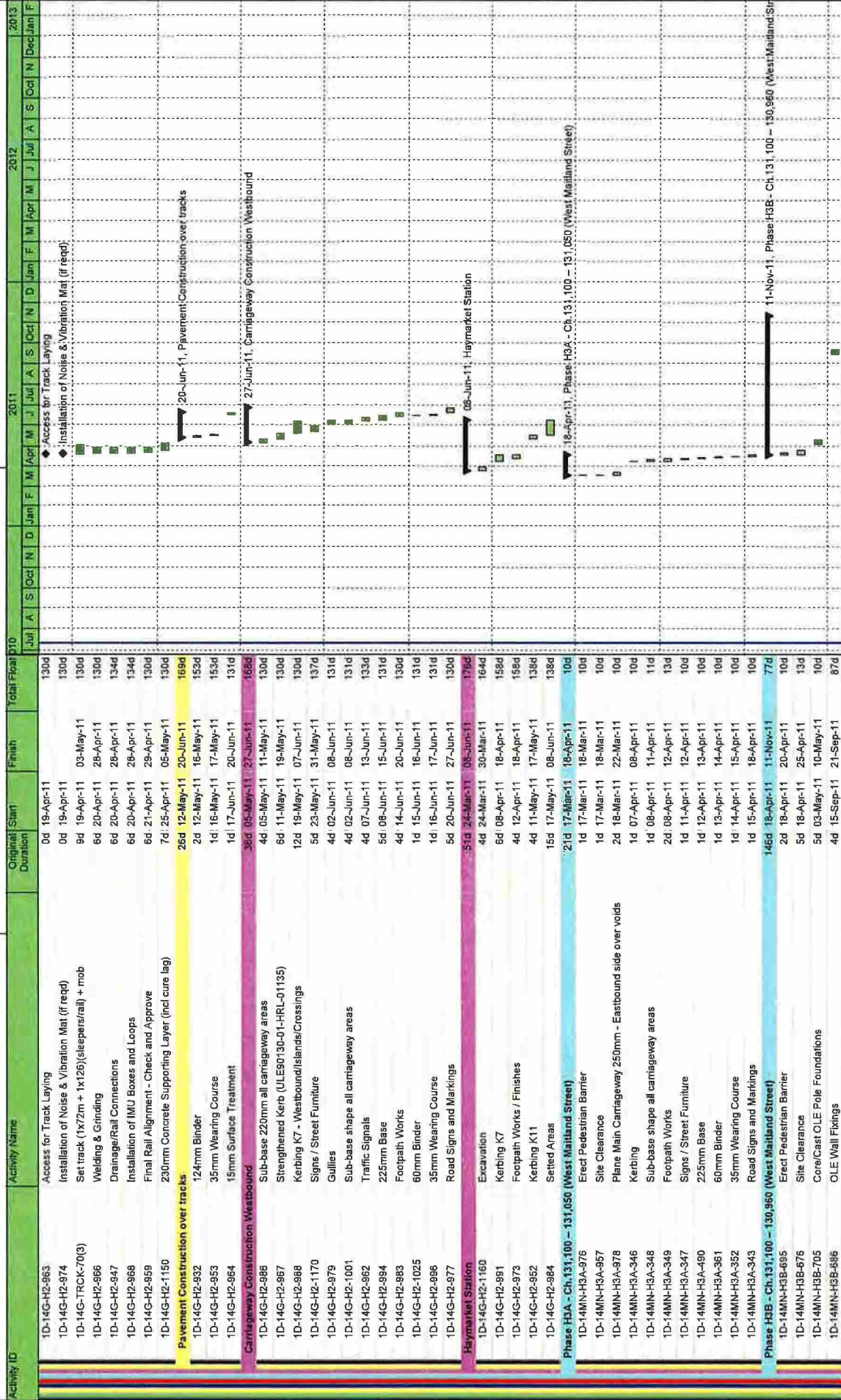
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 Project Carlisle Programme  
 Checked: SSC/MHE  
 Approved: BSC

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# EDINBURGH TRAM NETWORK



# EDINBURGH TRAM NETWORK



■ Remaining Work   
 ■ Critical Remaining Work   
 ■ Milestone   
 ◆ Actual Work   
 ◆ Summary

Date: 29-Jul-10   
 Revision: Project Carlisle Programme   
 Checked: ISSC/MHE   
 Approved: BSC   
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EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float	2011	2012	2013
1D-14J-JNCS-60	Installation of traffic light control - Junction 46	21-Sep-11	03-Oct-11	106d			
<b>Drainage &amp; Ducts</b>							
1D-14MN-H3B-668	Investigate services / outlet positions / inlet-outlet positions / levels	20-Apr-11	29-Jun-11	173d			
1D-14MN-H3B-669	Outfall Connections	22-Apr-11	26-Apr-11	41d			
1D-14MN-H3B-660	Drainage to Discharge Points	26-Apr-11	10-May-11	41d			
1D-14MN-H3B-651	Traction Ducts & Chambers	03-May-11	19-May-11	15d			
1D-14MN-H3B-652	Comms Ducts & Chambers	03-May-11	13-May-11	10d			
1D-14MN-H3B-653	Traffic Signal Ducts	10-May-11	16-May-11	6d			
1D-14MN-H3B-664	Lighting Ducts	29-Jun-11	17d	17d			
<b>Outbound Track</b>							
1D-14M-H3B-778	Plane Main Carriageway 250mm	20-Apr-11	12-Jun-11	91d			
1D-14M-H3B-749	Excavate to Formation for Carriageway and Track (incl for Capping Type 1)	20-Apr-11	22-Apr-11	10d			
1D-14M-H3B-960	Remove existing kerbs	22-Apr-11	26-Apr-11	19d			
1D-14M-H3B-761	Check suitability of formation (ongoing)	22-Apr-11	26-Apr-11	14d			
1D-14M-H3B-742	Capping Layer to Adjacent Carriageway (600mm)	28-Apr-11	03-May-11	10d			
1D-14M-H3B-743	Make good Formation with Type 1 (Ave 220mm)	10-May-11	12-May-11	10d			
1D-14M-H3B-794	Installation of IMU Drains and Cable Ducting	12-May-11	16-May-11	10d			
1D-14M-H3B-825	Carry out inspection and testing of Subgrade	16-May-11	17-May-11	10d			
1D-14M-H3B-806	Blinding Concrete	17-May-11	19-May-11	10d			
1D-14M-H3B-777	Place RC Improvement Slab (+ cure lag)	18-May-11	24-May-11	10d			
1D-14M-H3B-788	Access for Track Laying	26-May-11	26-May-11	10d			
1D-14M-H3B-759	Installation of Noise & Vibration Mat (if reqd)	26-May-11	06-Jun-11	10d			
1D-14M-TRCK-70(3)	Set track (1x144m)(sleepers/rail)	26-May-11	03-Jun-11	10d			
1D-14M-H3B-781	Welding & Grinding	27-May-11	03-Jun-11	10d			
1D-14M-H3B-752	Drainage/Rail Connections	27-May-11	03-Jun-11	14d			
1D-14M-H3B-753	Installation of IMU Boxes and Loops	27-May-11	03-Jun-11	14d			
1D-14M-H3B-804	Final Rail Alignment - Check and Approve	31-May-11	06-Jun-11	10d			
1D-14M-H3B-835	230mm Concrete Supporting Layer (incl cure lag)	02-Jun-11	09-Jun-11	10d			
<b>Pavement Construction over tracks</b>							
1D-14M-H3B-747	124mm Binder	16-Jun-11	11-Jul-11	82d			
1D-14M-H3B-758	35mm Wearing Course	16-Jun-11	20-Jun-11	83d			
1D-14M-H3B-759	15mm Surface Treatment	16-Jun-11	20-Jun-11	83d			
<b>Carriageway Construction Westbound</b>							
1D-14M-H3B-371	Sub-base 220mm all carriageway areas	09-Jun-11	12-Jul-11	100d			
1D-14M-H3B-372	Kerbing K7 - Westbound/Islands/Crossings	15-Jun-11	15-Jun-11	100d			
1D-14M-H3B-374	Signs / Street Furniture	15-Jun-11	29-Jun-11	100d			
1D-14M-H3B-425	Sub-base shape all carriageway areas	17-Jun-11	24-Jun-11	14d			
1D-14M-H3B-363	Gullies	24-Jun-11	30-Jun-11	10d			
1D-14M-H3B-376	Traffic Signals	27-Jun-11	30-Jun-11	10d			
1D-14M-H3B-367	Footpath Works	28-Jun-11	05-Jul-11	10d			
1D-14M-H3B-368	225mm Base	29-Jun-11	08-Jul-11	10d			
1D-14M-H3B-359	60mm Binder	30-Jun-11	05-Jul-11	10d			
1D-14M-H3B-550	35mm Wearing Course	05-Jul-11	07-Jul-11	10d			
1D-14M-H3B-381	Road Signs and Markings	07-Jul-11	08-Jul-11	10d			
<b>Inbound Track</b>							
1D-14N-H3B-373	Plane Main Carriageway 250mm	12-Jun-11	11-Nov-11	77d			

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■ Remaining Work   
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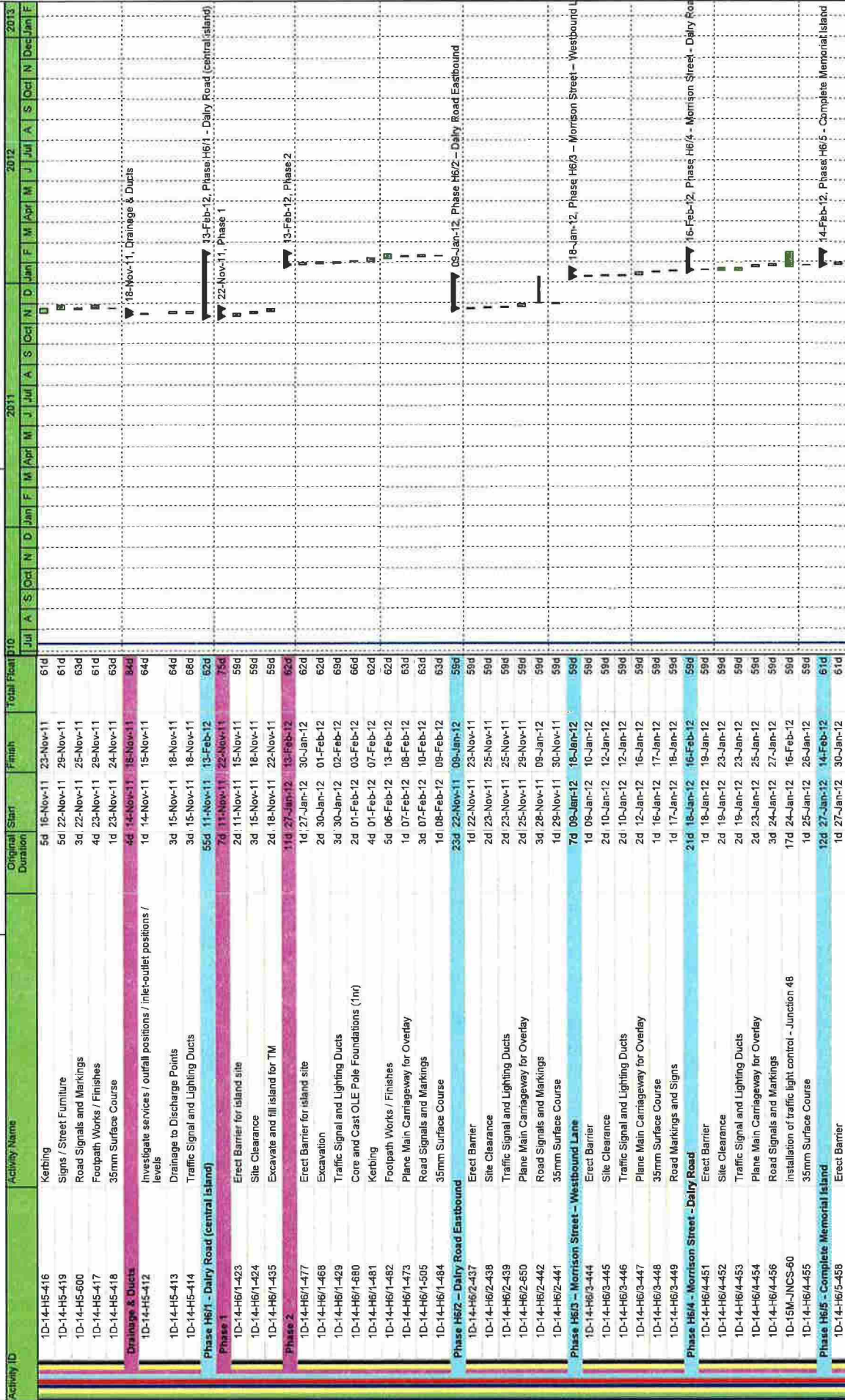


Activity ID	Activity Name	Original Start Duration	Finish	Total Float D10	2011	2012	2013
					Jul	Aug	Sep
1D-14N-H3B-434	Excavate to Formation for Carriageway and Track (incl for Capping/Type 1)	6d 14-Jul-11	22-Jul-11	10d			
1D-14N-H3B-485	Remove existing kerbs	2d 14-Jul-11	18-Jul-11	12d			
1D-14N-H3B-426	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	26d			
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	12-Sep-11	10d			
1D-14N-TRCK-70(3)	Set track (1x144m)(sleepers/rail) + mob	4d 05-Sep-11	09-Sep-11	10d			
1D-14N-H3B-476	Welding & Grinding	4d 05-Sep-11	09-Sep-11	14d			
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	10d			
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			
	<b>Pavement Construction over tracks</b>						
1D-14N-H3B-382	124mm Binder	27d 22-Sep-11	31-Oct-11	13d			
1D-14N-H3B-383	35mm Wearing Course	2d 22-Sep-11	26-Sep-11	33d			
1D-14N-H3B-384	15mm Surface Treatment	1d 26-Sep-11	27-Sep-11	10d			
	<b>Carriageway Construction Westbound</b>						
1D-14N-H3B-386	Sub-base 220mm all carriageway areas	36d 15-Sep-11	04-Nov-11	82d			
1D-14N-H3B-387	Drainage	4d 15-Sep-11	21-Sep-11	10d			
1D-14N-H3B-520	Kerbing K11	5d 21-Sep-11	28-Sep-11	10d			
1D-14N-H3B-388	Memorial Island	11d 21-Sep-11	06-Oct-11	69d			
1D-14N-H3B-389	Kerbing K7 - Westbound/Islands/Crossings	5d 28-Sep-11	05-Oct-11	10d			
1D-14N-H3B-392	Settled Areas	10d 05-Oct-11	19-Oct-11	66d			
1D-14N-H3B-393	Signs / Street Furniture	15d 06-Oct-11	27-Oct-11	14d			
1D-14N-H3B-394	Sub-base shape all carriageway areas	5d 07-Oct-11	14-Oct-11	10d			
1D-14N-H3B-391	Gullies	4d 14-Oct-11	20-Oct-11	10d			
1D-14N-H3B-395	Traffic Signals	4d 19-Oct-11	25-Oct-11	66d			
1D-14N-H3B-396	Footpath Works	7d 19-Oct-11	28-Oct-11	10d			
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			
	<b>Phase H4 - Haymarket Terrace Westbound</b>						
1D-14-H4-403	Erect Barrier	7d 27-Jun-11	05-Jul-11	166d			
1D-14-H4-404	Site Clearance	1d 27-Jun-11	28-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			
	<b>Phase H5 - West Mainland Street / Grosvenor Street</b>						
1D-14-H5-409	Erect Barrier	11d 11-Nov-11	29-Nov-11	76d			
1D-14-H5-560	Site Clearance	1d 11-Nov-11	14-Nov-11	61d			
1D-14-H5-475	Excavation	2d 14-Nov-11	16-Nov-11	61d			

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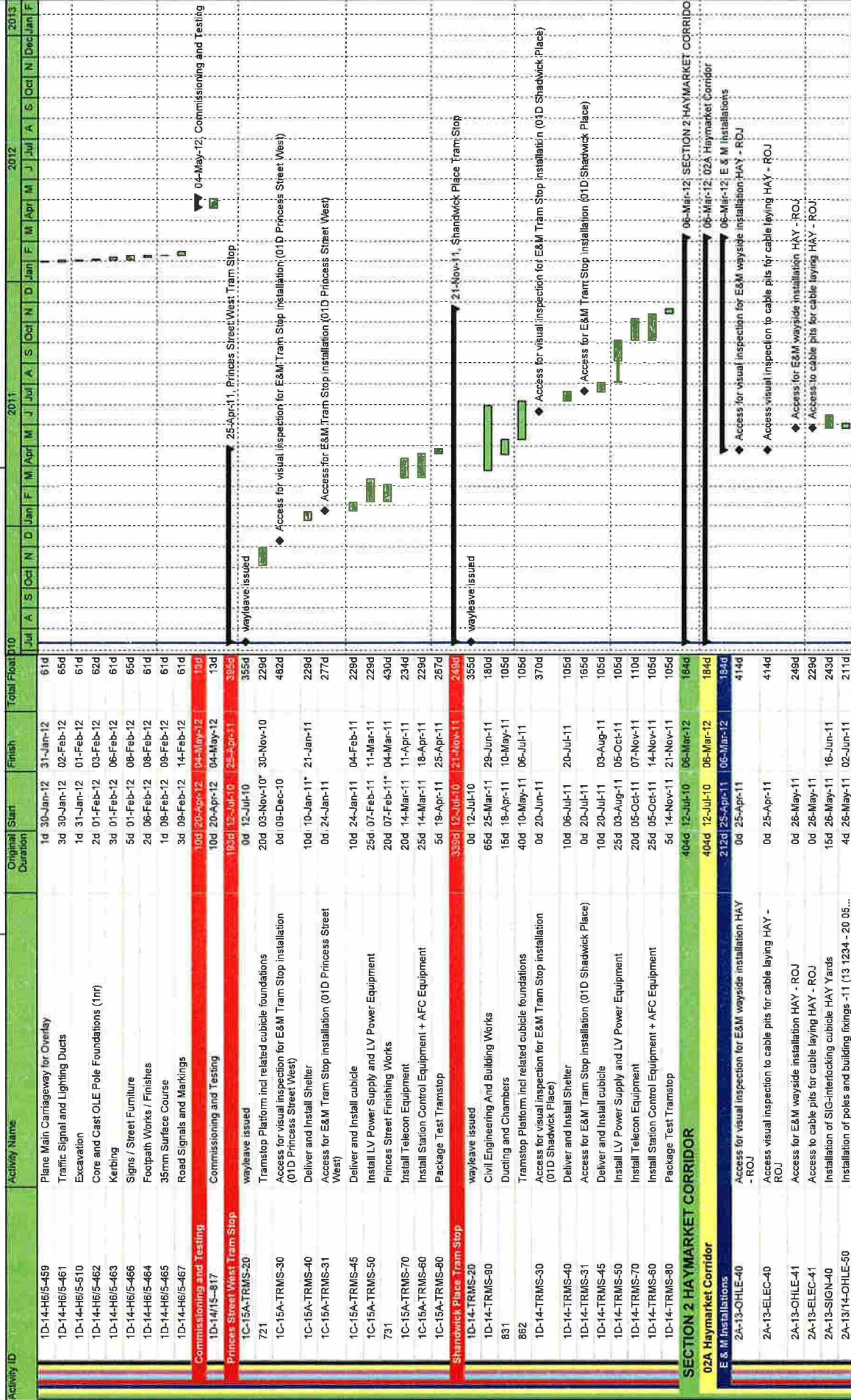
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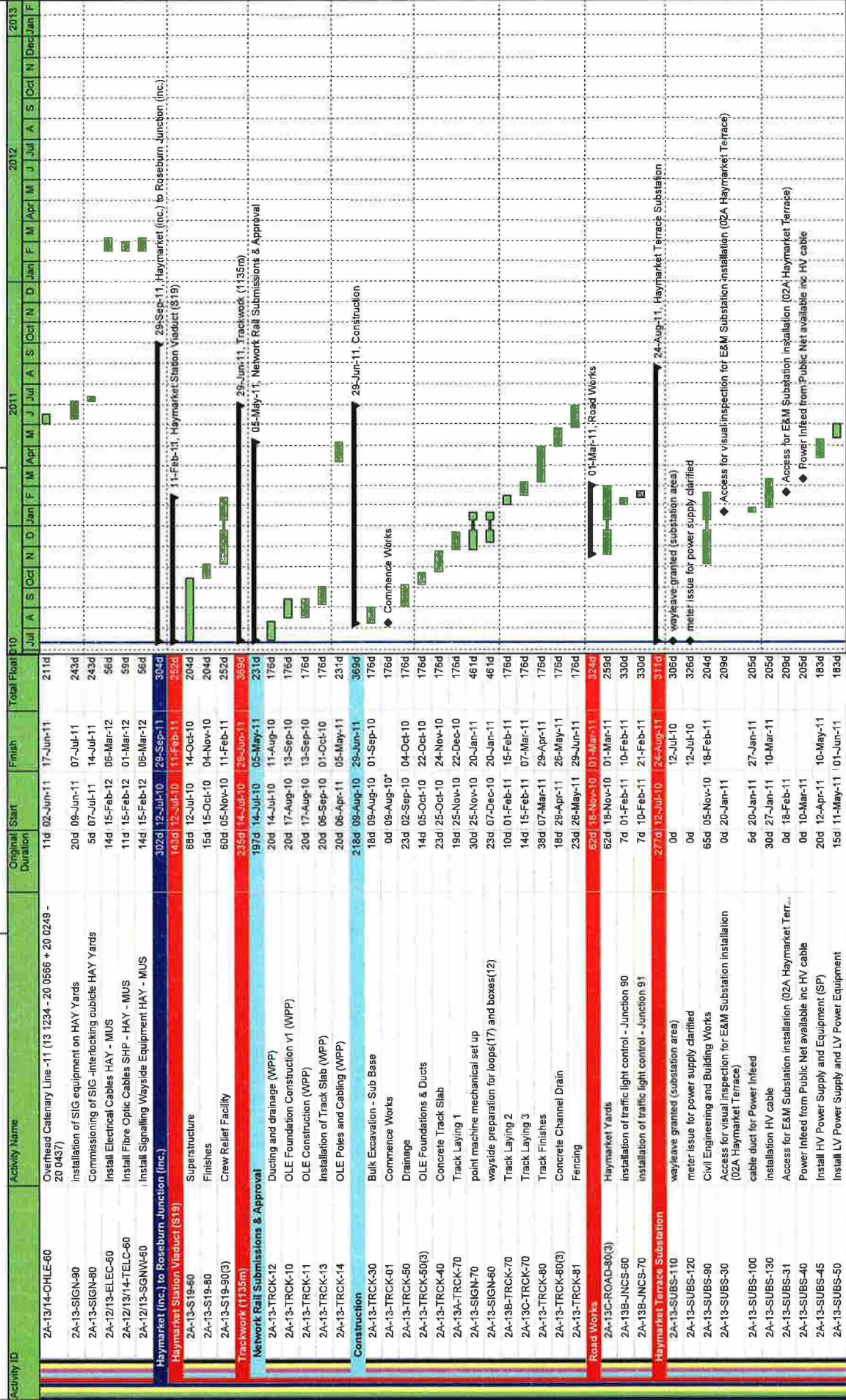
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█ Remaining Work  
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█ Milestone  
█ Summary

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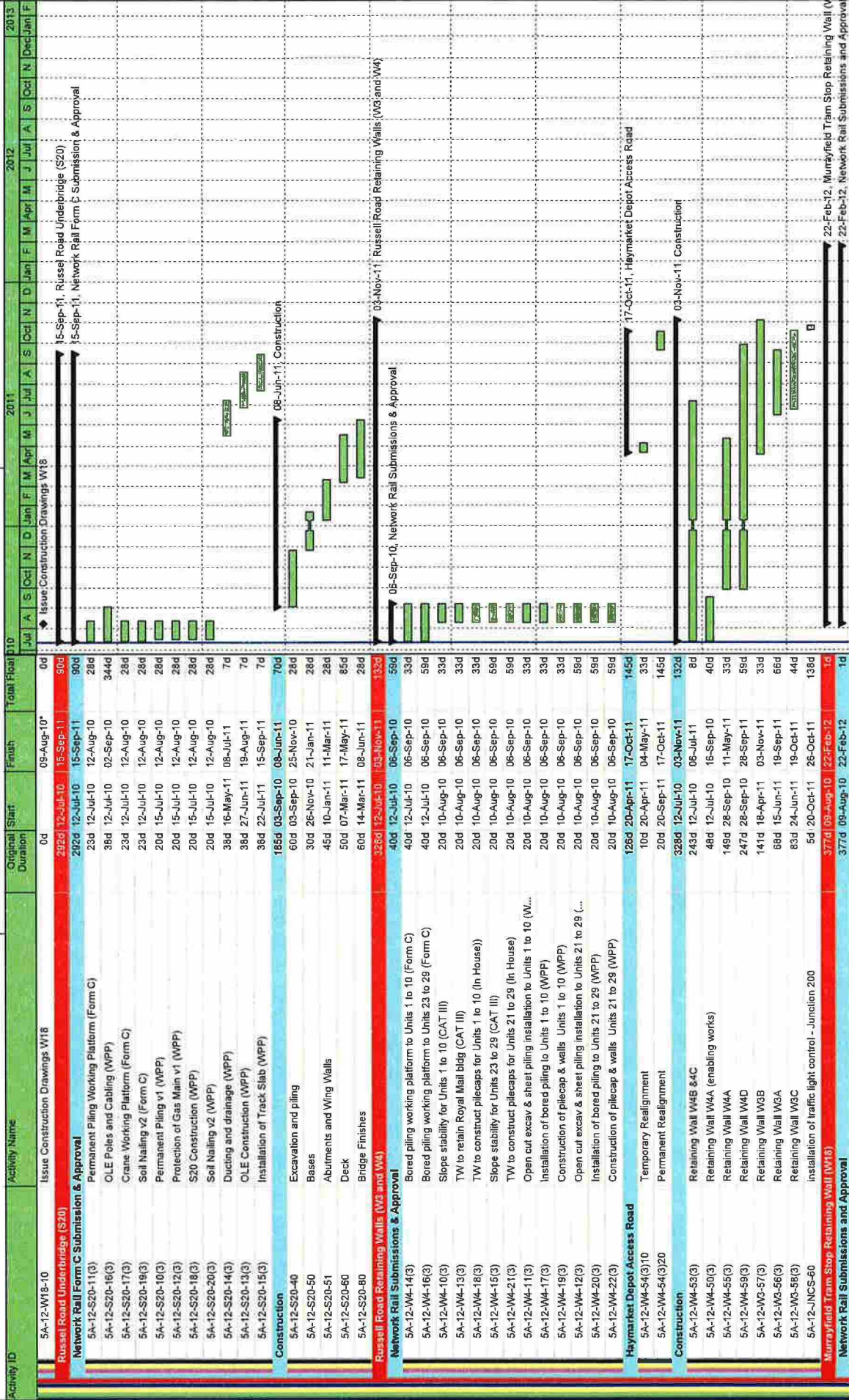
Activity ID	Activity Name	Original Start Duration	Finish	Total Float D10	2011	2012	2013
2A-13-SUBS-55	Energyisation Scottish Power	0d 25-May-11		375d			
2A-13-SUBS-60	Install Telecom and Scada	15d 02-Jun-11	22-Jun-11	183d			
2A-13-SUBS-60	Installation of TP8 Equipment	30d 23-Jun-11	04-Aug-11	183d			
2A-13-SUBS-80	Testing and Commissioning	14d 05-Aug-11	24-Aug-11	183d			
<b>Haymarket Station Tram Stop</b>							
2A-13-TRMS-20	wayleave issued	183d 12-Jul-10	13-Apr-11	405d			
2A-13-TRMS-90	Civil Engineering and Building Works	0d 12-Jul-10		335d			
2A-13-TRMS-30	Access for visual inspection for E&M Tram Stop installation (02A Haymarket Station)	65d 15-Oct-10	28-Jan-11	257d			
2A-13-TRMS-40	Deliver and Install Shelter	0d 25-Nov-10		517d			
2A-13-TRMS-31	Access for E&M Tram Stop installation (02A Haymarket Stati..	10d 13-Dec-10	24-Dec-10	257d			
2A-13-TRMS-45	Deliver and Install cubicle	0d 24-Dec-10		312d			
2A-13-TRMS-50	Install LV Power Supply and LV Power Equipment	10d 10-Jan-11	21-Jan-11	257d			
2A-13-TRMS-70	Install Telecon Equipment	25d 24-Jan-11	25-Feb-11	277d			
2A-13-TRMS-60	Install Station Control Equipment + AFC Equipment	20d 28-Feb-11	25-Mar-11	282d			
2A-13-TRMS-80	Package Test Tramstop	25d 28-Feb-11	04-Apr-11	277d			
<b>Landscaping</b>							
2A-13-LAND-100(3)	Landscaping to Section 2A	5d 29-Jun-11	25-Sep-11	176d			
<b>SECTION 05 ROSEBURN JUNCTION TO GOGAR</b>							
<b>05A Roseburn Junction (exc.) to Balgreen Road (Inc.)</b>							
<b>MUDFA works transferred to INFRACO</b>							
5A-BT-D-02(3)	BT Russell Road Ret Wall	65d 29-Jun-11	29-Sep-11	176d			
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			
<b>E &amp; M Installations</b>							
5A-12-ELEC-30	Access for visual inspection to cable pits for cable laying ROJ - MUS	30d 16-Jan-12	21-May-12	125d			
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	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-10/11-OHLE-60	Installation of poles and building fixings -12 (20 0457 - 51 08...	0d 23-Feb-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 0866)	30d 13-Mar-12	23-Apr-12	1d			
5A-11/12/13-OHLE-70	Testing & Commissioning	20d 24-Apr-12	21-May-12	1d			
<b>Roseburn Junction (exc.) to Murrayfield Stadium (Inc.)</b>							
<b>Design</b>							
0d 02-Aug-10		08-Aug-10		0d			
0d 05-Aug-10	Design	03-Apr-12		154d			

■ Remaining Work  
■ Critical Remaining Work  
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◆ Summary

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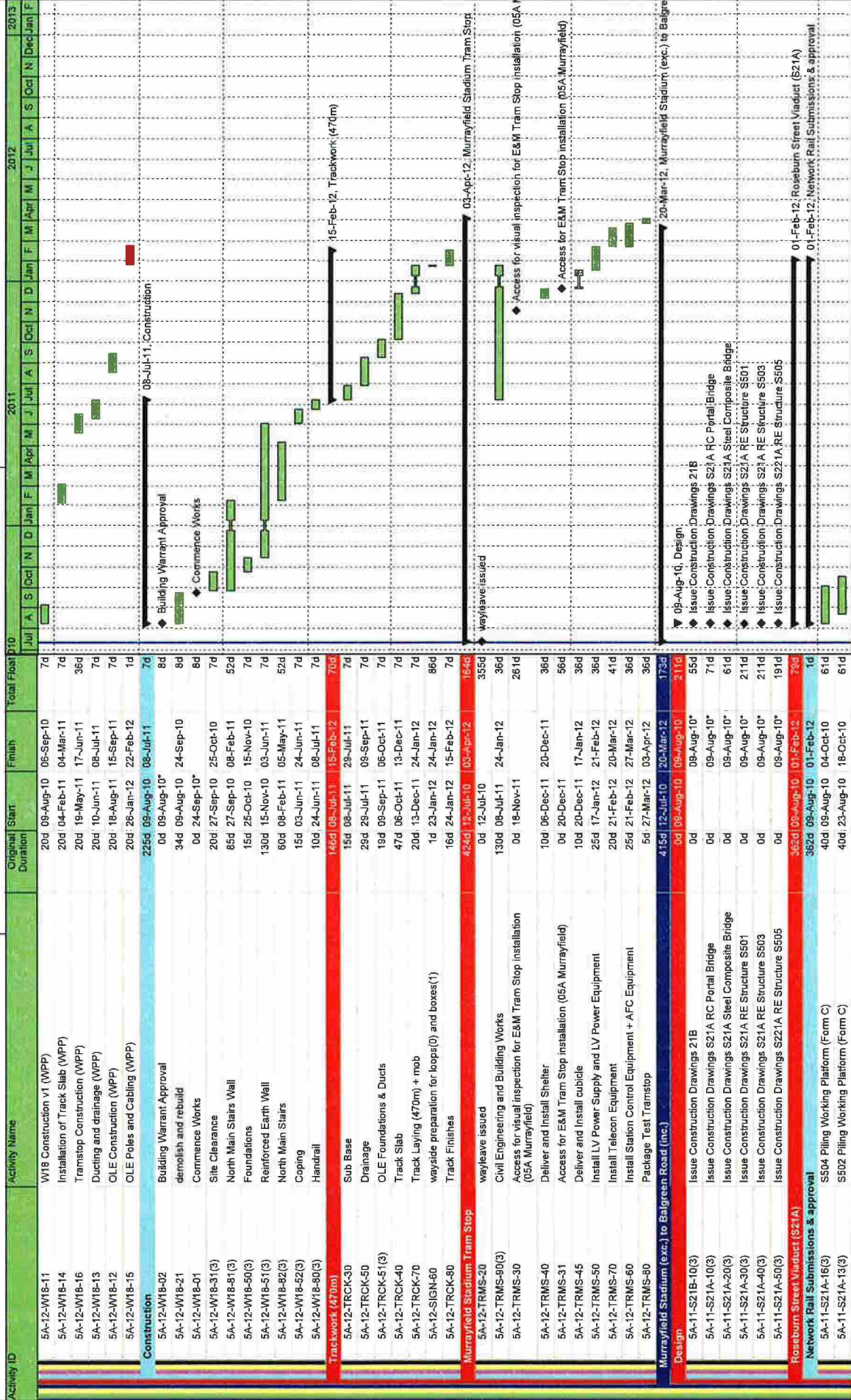


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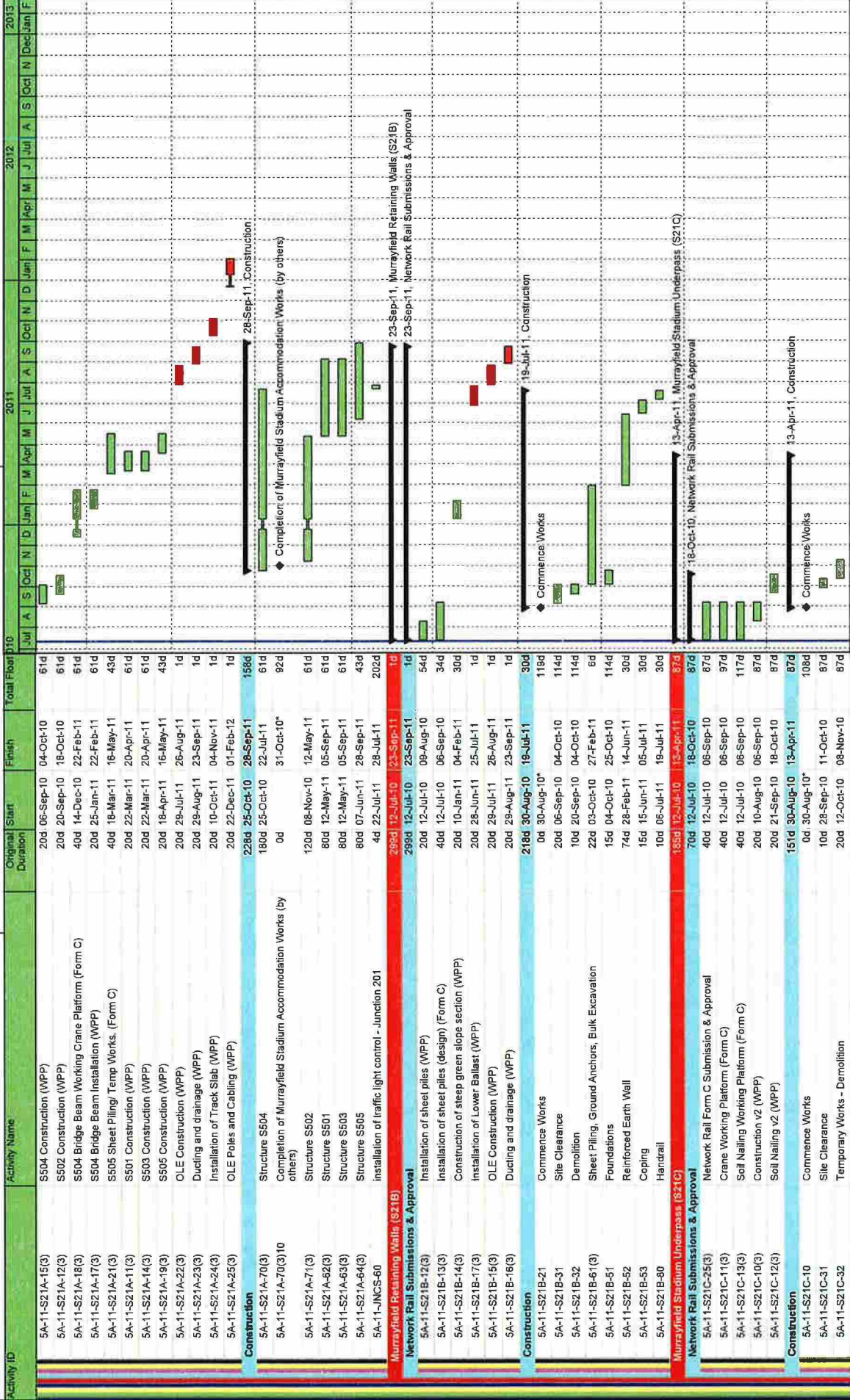
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Legend: █ Remaining Work █ Actual Work █ Critical Remaining Work █ Summary

Milestones: ◆ Milestone

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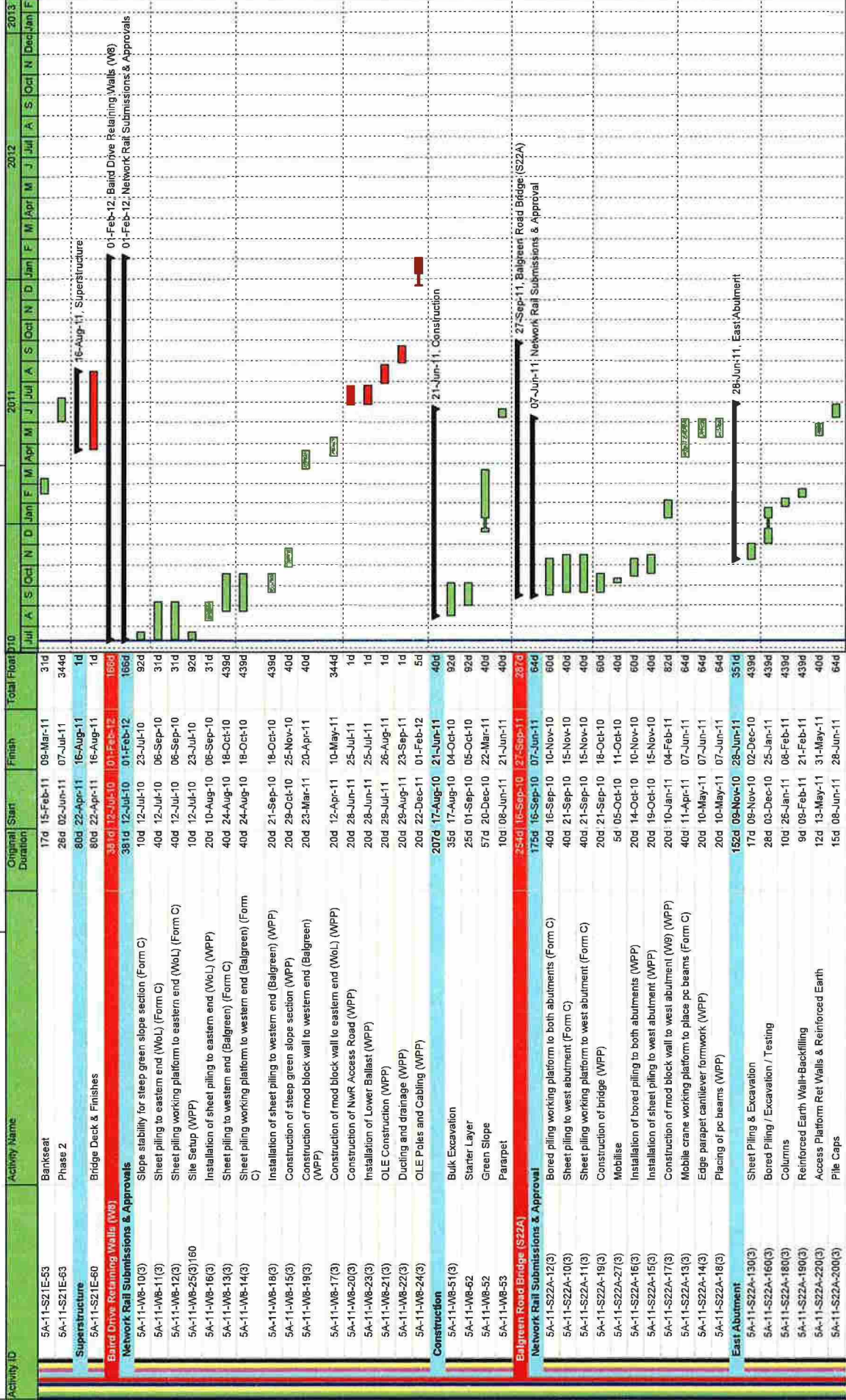


EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	2011												2012		2013				
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
5A-11-S21C-32(3)	Additional Sheet Piling	20d 09-Nov-10	07-Dec-10																			
5A-11-S21C-33	Earthworks	10d 08-Dec-10	21-Dec-10																			
5A-11-S21C-51	Base	10d 22-Dec-10	18-Jan-11																			
5A-11-S21C-52	Walls	20d 19-Jan-11	15-Feb-11																			
5A-11-S21C-61	Roof	20d 16-Feb-11	15-Mar-11																			
5A-11-S21C-62	Parapet Walls	15d 09-Mar-11	29-Mar-11																			
5A-11-S21C-80	Finishes	10d 30-Mar-11	13-Apr-11																			
<b>Murrayfield Retaining Walls (S21D)</b>				181d																		
<b>Network Rail Form C Submission &amp; Approvals</b>				367d																		
5A-11-S21D-10(3)	Network Rail Form C West end Piling Platform Submission & Approval	36d 30-Jul-10	01-Feb-12																			
5A-11-S21D-11(3)	Network Rail Form C West End Piling Submission & Approval	40d 30-Jul-10*	24-Sep-10																			
5A-11-S21D-12(3)	Network Rail Form C Ice Piling Platform Submission & Approval	40d 30-Jul-10*	24-Sep-10																			
5A-11-S21D-13(3)	Network Rail Form C Toe Sheet Piling Submission & Approval	40d 30-Jul-10*	24-Sep-10																			
5A-11-S21D-15(3)	Installation of sheet piling to western end (WoL) (WPP)	20d 10-Aug-10	06-Sep-10																			
5A-11-S21D-14(3)	Construction of steep green slope section (WPP)	20d 25-Nov-10	23-Dec-10																			
5A-11-S21D-16(3)	Construction of mod block wall to western end (WoL) (WPP)	20d 11-May-11	08-Jun-11																			
5A-11-S21D-13(3)10	Installation of Lower Ballast (WPP)	20d 28-Jun-11	25-Jul-11																			
5A-11-S21D-17(3)	OLE Construction (WPP)	20d 29-Jul-11	26-Aug-11																			
5A-11-S21D-18(3)	Ducting and drainage (WPP)	20d 29-Aug-11	23-Sep-11																			
5A-11-S21D-13(3)20	OLE Poles and Cabling (WPP)	20d 22-Dec-11	01-Feb-12																			
<b>Construction</b>				140d																		
5A-11-S21D-30(3)	Site Clearance / Testing / Design Check	13d 18-Oct-10	18-May-11																			
5A-11-S21D-61(3)	Sheet Piling	10d 04-Nov-10	17-Nov-10																			
5A-11-S21D-52(3)	Bulk Excavation	29d 03-Dec-10	27-Jan-11																			
5A-11-S21D-62(3)10	Green Slope	67d 27-Jan-11	04-May-11																			
5A-11-S21D-80	Parapet	10d 05-May-11	18-May-11																			
<b>Water of Leith Bridge (S21E)</b>				317d																		
<b>Network Rail Form C Submission &amp; Approvals</b>				271d																		
5A-11-S21E-13(3)	Mobile crane working platform to construct bridge (Form C)	176d 12-Jul-10	30-Mar-11																			
5A-11-S21E-11(3)	Sheet piling working platform to centre pier (Form C)	40d 12-Jul-10	05-Sep-10																			
5A-11-S21E-12(3)	Bored piling working platform to centre pier (Form C)	40d 12-Jul-10	06-Sep-10																			
5A-11-S21E-20(3)	Construction of New M/Hole over Egg Sewer	20d 12-Jul-10	09-Aug-10																			
5A-11-S21E-14(3)	Installation of sheet piling to centre pier (WPP)	20d 10-Aug-10	06-Sep-10																			
5A-11-S21E-15(3)	Installation of bored piling to centre pier (WPP)	20d 10-Aug-10	06-Sep-10																			
5A-11-S21E-16(3)	Construction of abutments (WPP)	20d 15-Oct-10	11-Nov-10																			
5A-11-S21E-17(3)	Construction of deck (WPP)	20d 03-Mar-11	30-Mar-11																			
5A-11-S21E-18(3)	Steel Work Carried out by Maybe Construction	20d 03-Mar-11	30-Mar-11																			
5A-11-S21E-19(3)	Enabling Works	20d 31-Aug-10	27-Sep-10																			
5A-11-S21E-35(3)	Sewer Enabling Works	194d 28-Sep-10	14-Jul-11																			
5A-11-S21E-45(3)	Formation to East Abutment (Murrayfield)	48d 28-Sep-10	03-Dec-10																			
5A-11-S21E-46(3)	Bankseat	25d 06-Dec-10	21-Jan-11																			
5A-11-S21E-47(3)	Phase 2	11d 30-Jun-11	14-Jul-11																			
<b>Centre Pier</b>				1d																		
5A-11-S21E-51	Leaf Pier	136d 28-Sep-10	21-Apr-11																			
<b>West Abutment</b>				1d																		
5A-11-S21E-52	Formation to West Abutment (Bairst Drive)	189d 28-Sep-10	07-Jul-11																			
<b>Water of Leith Bridge (S21E)</b>				31d																		

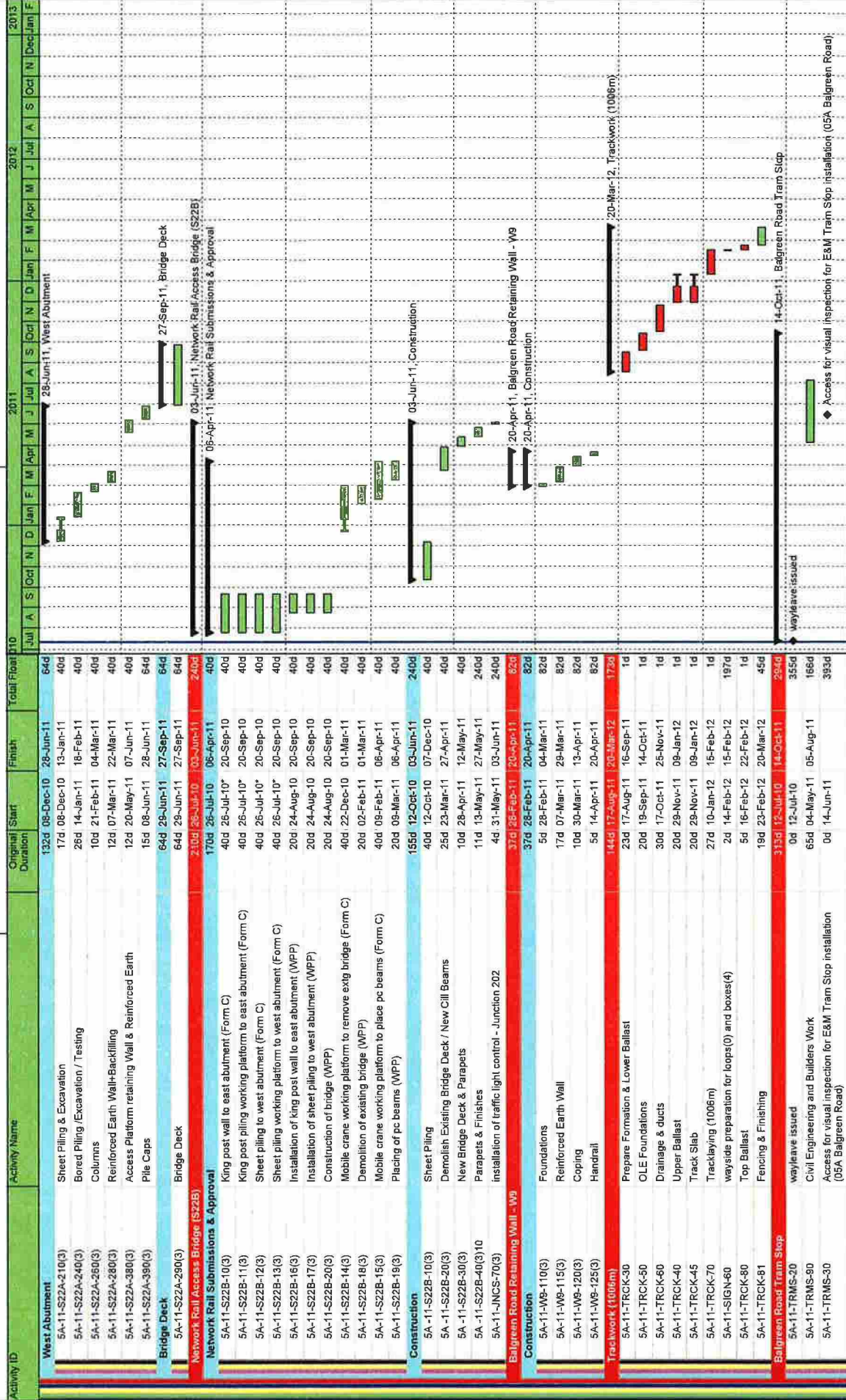
■ Remaining Work    ■ Critical Remaining Work    ■ Summary  
■ Actual Work    ■ Milestone

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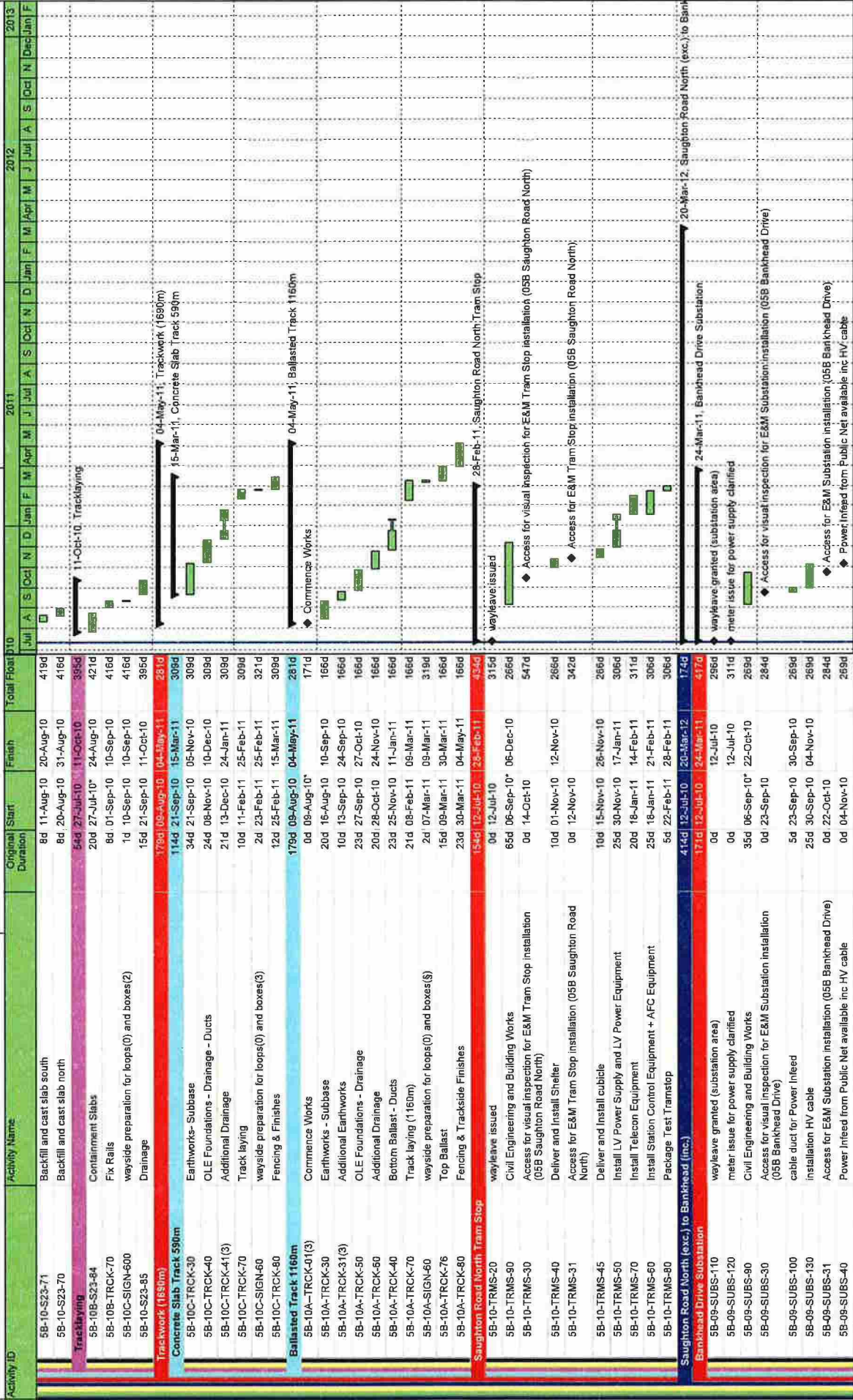
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 - Red bar: Actual Work  
 - Diamond: Milestone  
 - Arrow: Critical Remaining Work  
 - Summary: Summary

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 Approved: BSC





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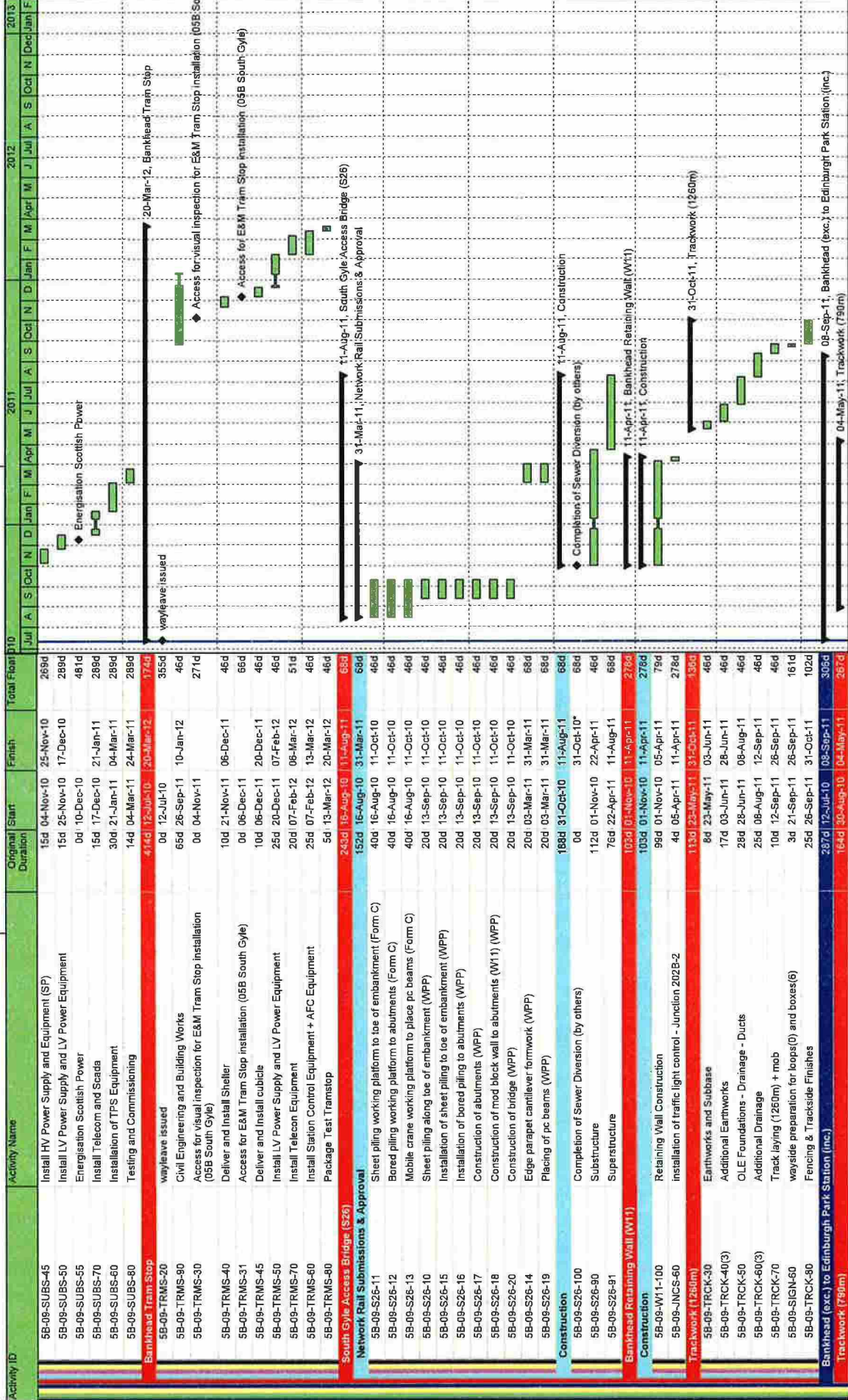


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EDINBURGH TRAM NETWORK



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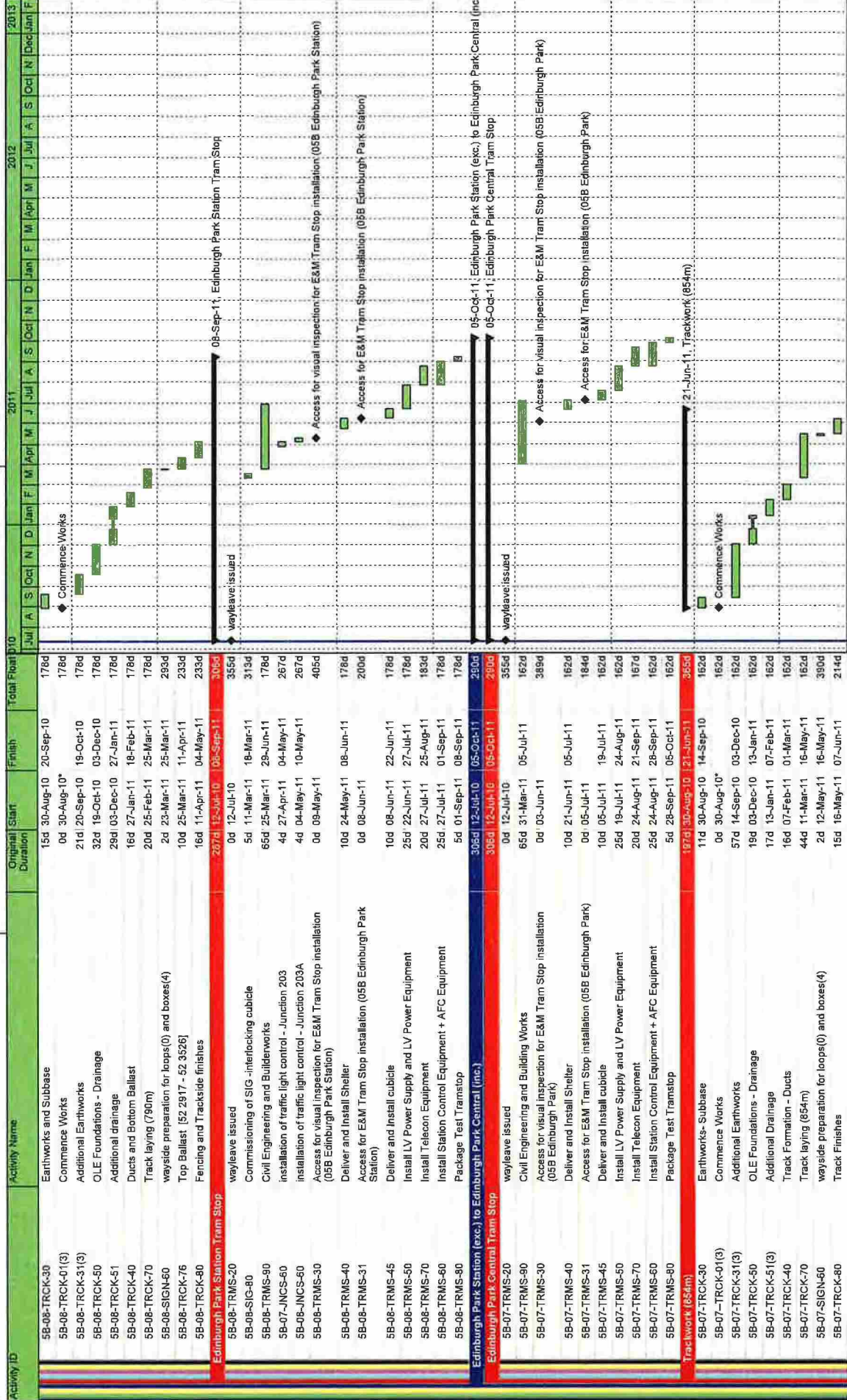
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Legend:   
█ Remaining Work   
█ Actual Work   
◆ Critical Remaining Work   
◆ Milestone

Summary

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# EDINBURGH TRAM NETWORK



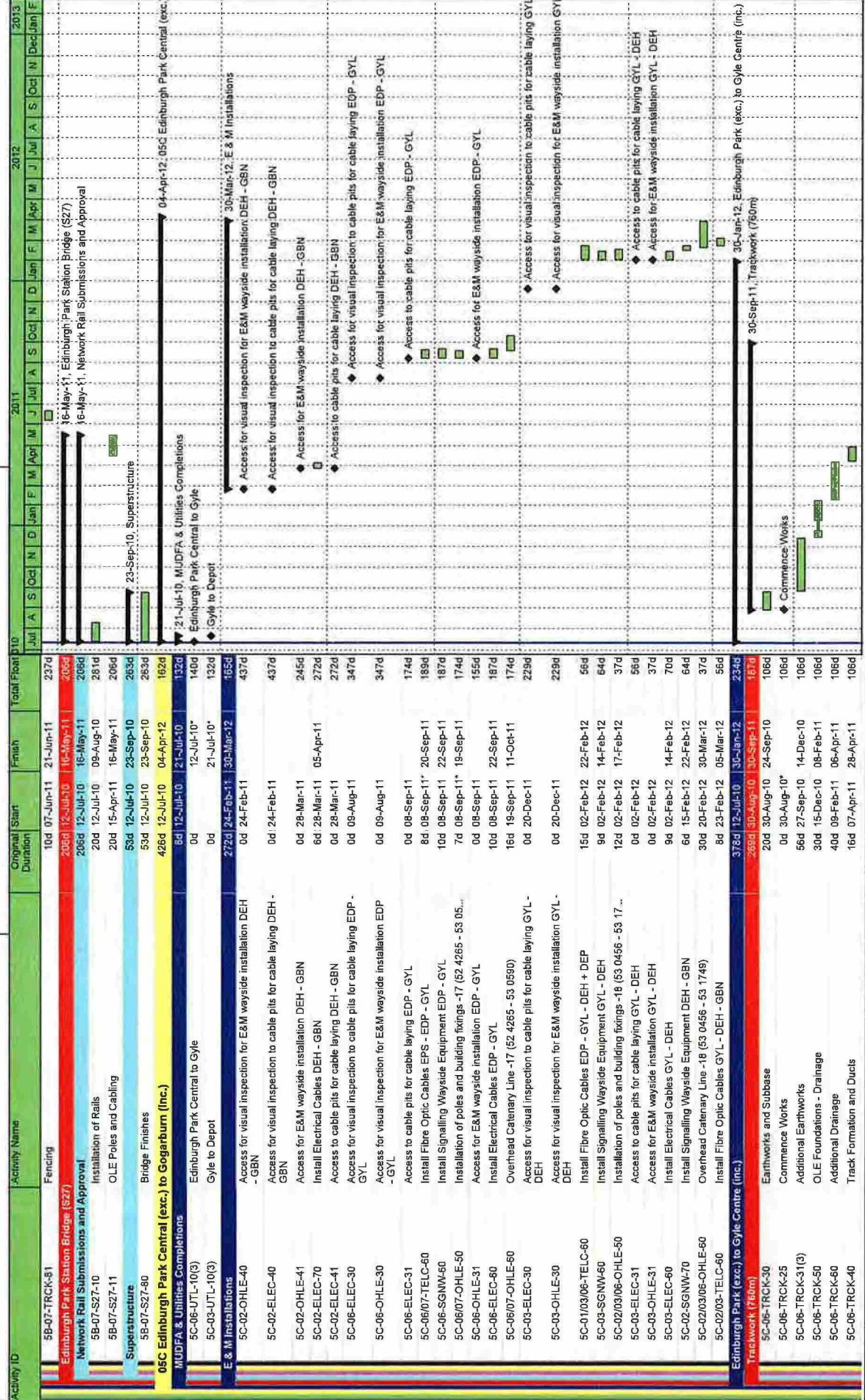
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# EDINBURGH TRAM NETWORK



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EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float B10	2011	2012	2013
5C-06-TRCK-90	Road Crossings + mob (track laying activities only)	23d 06-Jun-11	07-Jul-11	106d			
5C-06-INCS-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-INCS-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			
<b>Gyle Centre Tram Stop</b>							
	wayleave issued	37d 12-Jul-10	30-Jan-12	345d			
5C-06-TRMS-20	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 (OSC 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 (OSC 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 Telecom Equipment	20d 05-Dec-11	18-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 30-Jan-12	30-Jan-12	106d			
<b>Gyle Centre Tram Stop Retaining Wall (W16)</b>							
	Temporary Works	16d 30-Aug-10	20-Sep-10	115d			
5C-06-W16-111(3)	Commence Works	0d 30-Aug-10		115d			
5C-06-W16-110(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			
<b>Gyle Centre (exc.) to Depot Stop (inc.) A8 Underpass (W28)</b>							
	Commence Works	425d 12-Jul-10	04-Apr-12	162d			
	07-Dec-10, Phases 1 & 2	304d 12-Jul-10	30-Sep-11	324d			
5C-03-W28-90(3)10	Deck Construction	105d 12-Jul-10	07-Dec-10	352d			
5C-03-W28-90(3)20	North Portal	38d 12-Jul-10	02-Sep-10	76d			
5C-03-W28-90(3)30	Finishes	42d 12-Jul-10	08-Sep-10	415d			
<b>Phase 4</b>							
5C-03-W28-91(3)10	Deck Construction	67d 03-Sep-10	07-Dec-10	76d			
5C-03-W28-92(3)10	South Portal	120d 12-Jul-10	11-Jan-11	468d			
5C-03-W28-92(3)20	Finishes	47d 12-Jul-10	15-Sep-10	34d			
5C-03-W28-92(3)30	Finishes	55d 02-Sep-10	17-Nov-10	496d			
<b>Phase 3</b>							
5C-03-W28-91(3)10	Deck Construction	73d 16-Sep-10	11-Jan-11	34d			
5C-03-W28-91(3)20	Temporary Works	101d 12-Jan-11	06-Jun-11	367d			
5C-03-W28-91(3)30	Reinstate Retaining Wall	78d 12-Jan-11	03-May-11	34d			
5C-03-W28-94(3)10	Finishes	11d 16-Feb-11	02-Mar-11	432d			
5C-03-W28-94(3)20	Finishes	5d 19-Apr-11	26-Apr-11	394d			
5C-03-W28-94(3)30	Finishes	23d 04-May-11	06-Jun-11	238d			
<b>Tunnel Construction</b>							
5C-03-W28-94(3)	Phases 1 & 2	239d 12-Oct-10	30-Sep-11	34d			
5C-03-W28-94(3)10	Phase 3	91d 12-Oct-10	02-Mar-11	76d			
5C-03-W28-94(3)20	Phase 4	36d 04-May-11	23-Jun-11	34d			
5C-03-W28-94(3)30	Phase 4	91d 25-May-11	30-Sep-11	34d			
<b>Depot Access Bridge (S12)</b>							
	Centre Columns	153d 12-Jul-10	25-Feb-11	435d			
5C-03-S32-30(3)	Pile Caps	39d 01-Oct-10	24-Nov-10	204d			
		17d 01-Oct-10	25-Oct-10	204d			

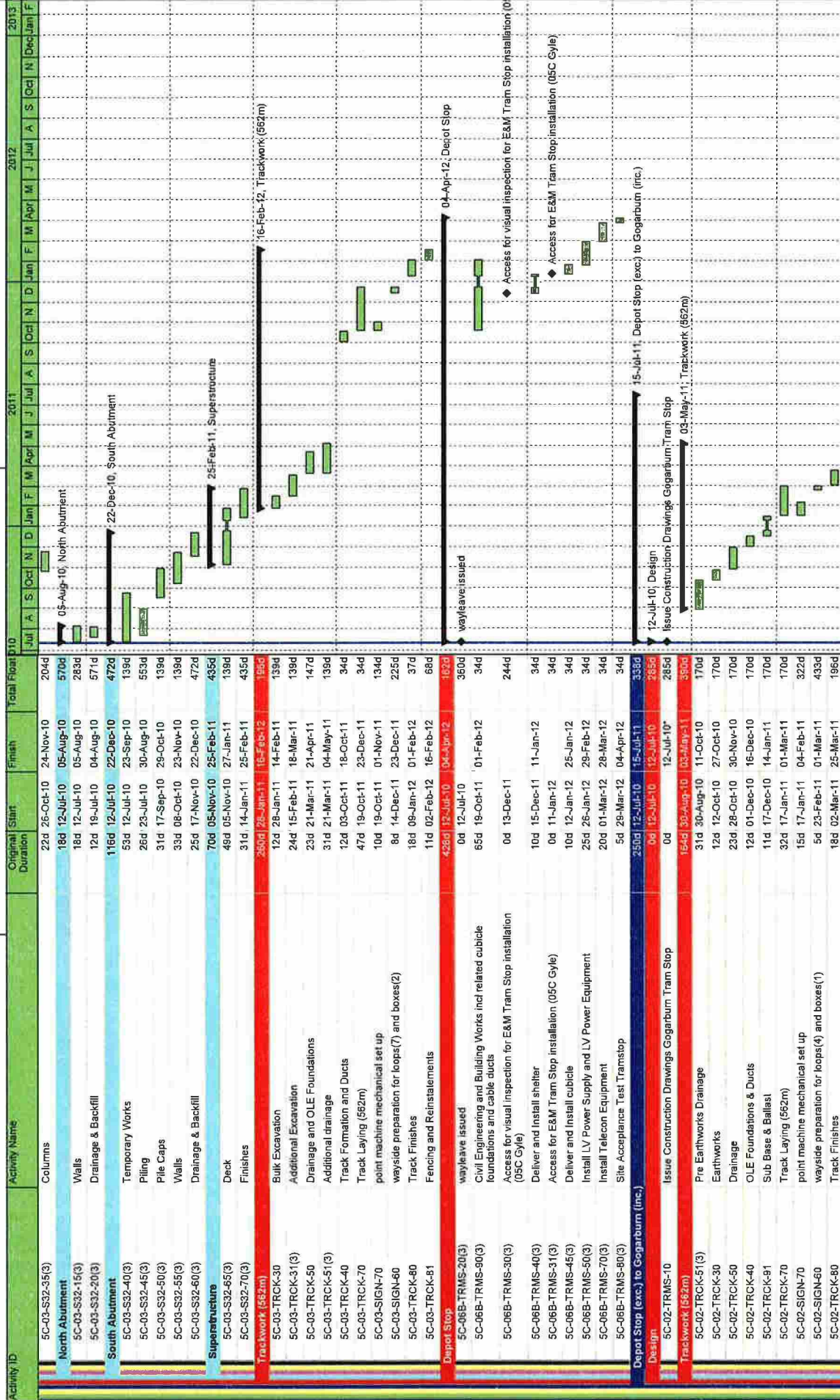
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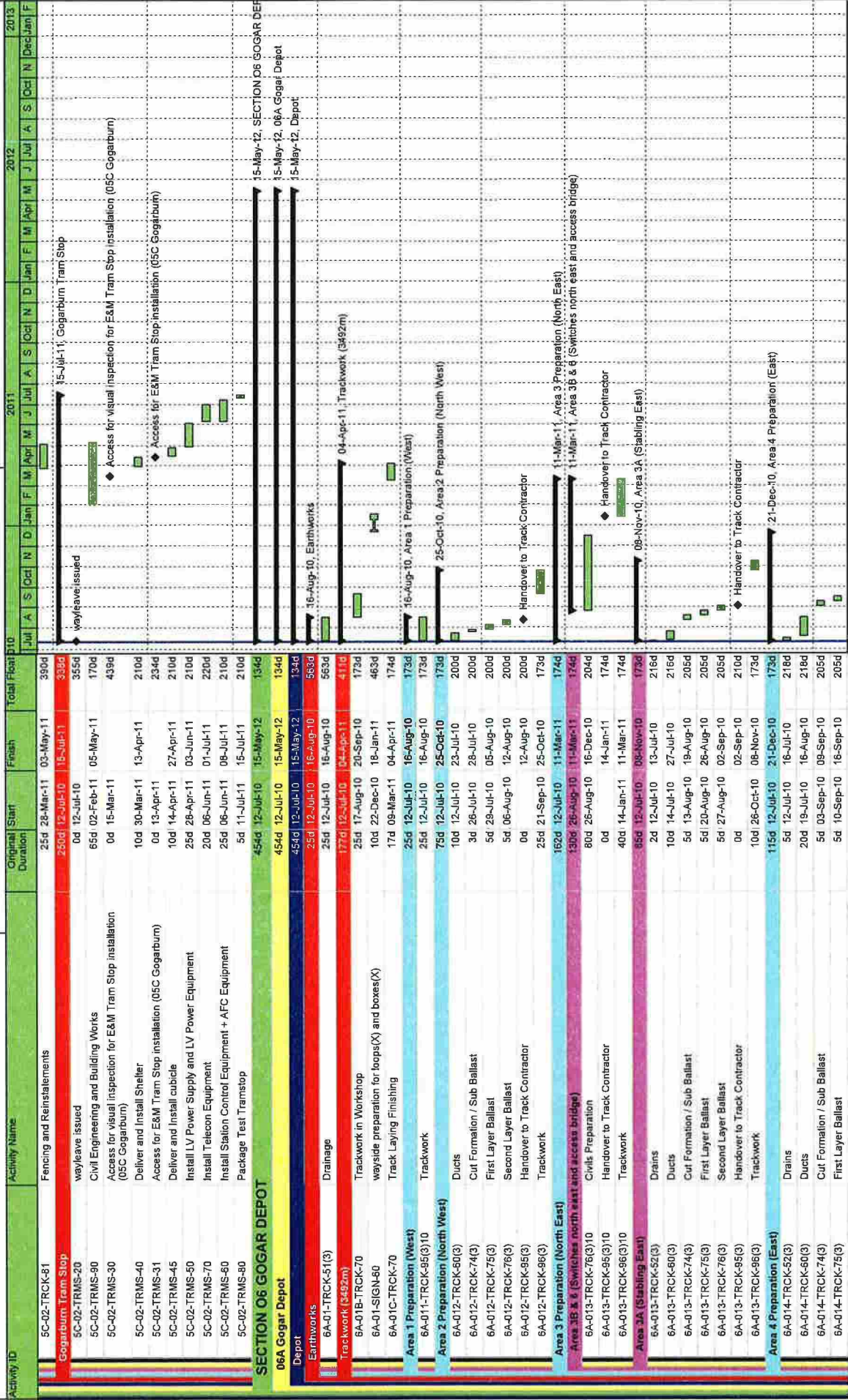
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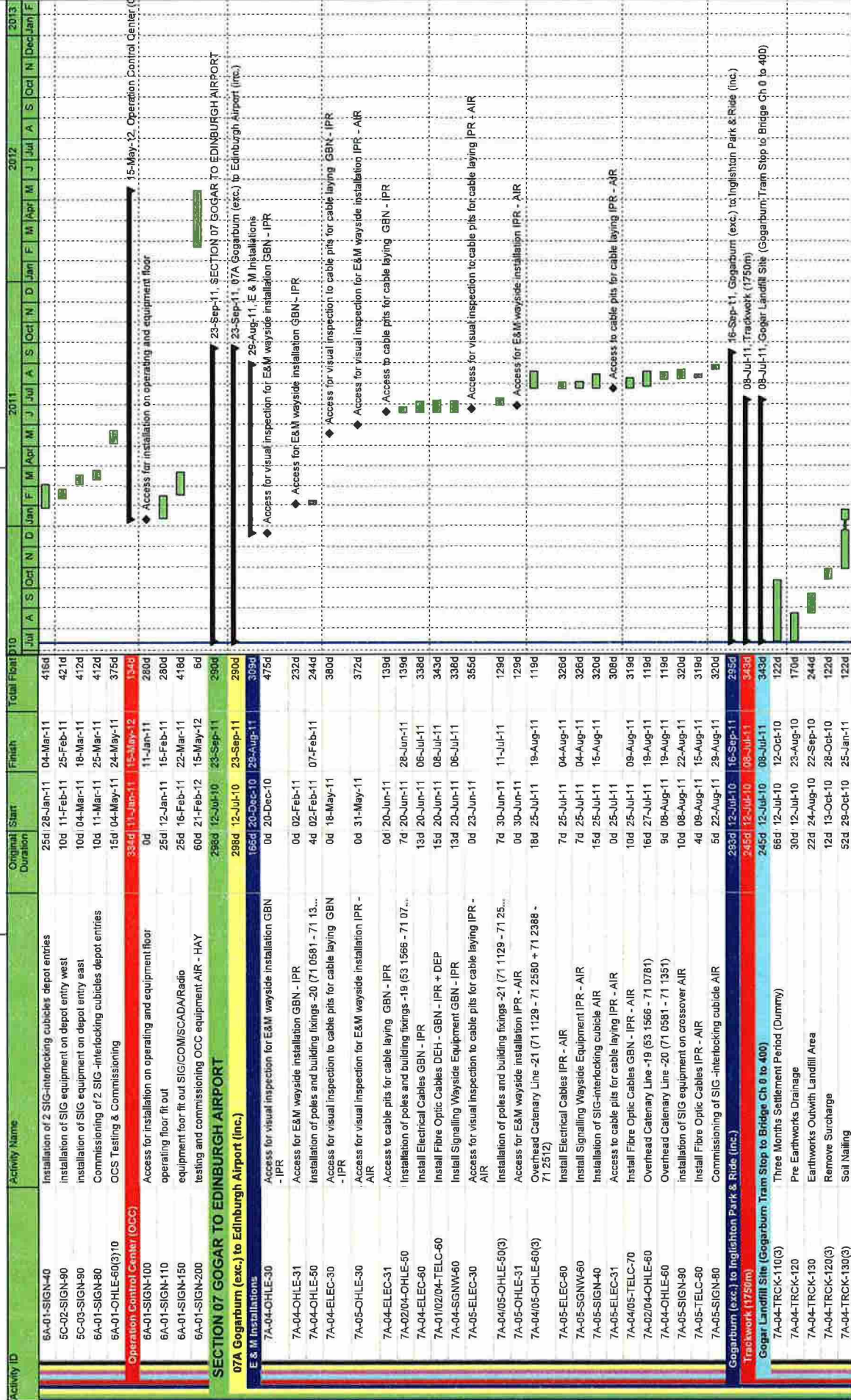
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float D10	2011	2012	2013
						Jul	Aug	Sep
6A-014-TRCK-76(3)	Second Layer Ballast	5d	17-Sep-10	23-Sep-10	205d			
6A-014-TRCK-95(3)	Handover to Track Contractor	0d	23-Sep-10	23-Sep-10	205d			
6A-014-TRCK-96(3)	Trackwork	30d	09-Nov-10	21-Dec-10	173d			
<b>Depot Building</b>		<b>170d</b>	<b>12-Jul-10</b>	<b>22-Mar-11</b>	<b>418d</b>			
6A-01-BLDS-55	Pits	35d	12-Jul-10	30-Aug-10	553d			
6A-01-BLDS-55	Building Envelope	14d	12-Jul-10	29-Jul-10	574d			
<b>Fitting Out &amp; Finishes</b>		<b>60d</b>	<b>12-Jul-10</b>	<b>04-Oct-10</b>	<b>208d</b>			
6A-01-BLDS-71	Fitting out and Finishes	80d	12-Jul-10	04-Oct-10	208d			
<b>E &amp; M Workshop Equipment Installation</b>		<b>111d</b>	<b>05-Sep-10</b>	<b>22-Feb-11</b>	<b>498d</b>			
6A-01-BLDS-30	Access for visual inspection for E&M workshop equipment	0d	05-Sep-10	22-Feb-11	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	22-Feb-11	554d			
<b>Building Services</b>		<b>110d</b>	<b>12-Jul-10</b>	<b>14-Dec-10</b>	<b>280d</b>			
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			
<b>Inspection &amp; Handover</b>		<b>20d</b>	<b>23-Feb-11</b>	<b>22-Mar-11</b>	<b>418d</b>			
6A-01-BLDS-81	Inspection and Testing	20d	23-Feb-11	22-Mar-11	418d			
<b>Depot Substation</b>		<b>145d</b>	<b>12-Aug-10</b>	<b>11-Feb-11</b>	<b>445d</b>			
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	12-Jul-10	281d			
6A-01-SUBS-120	meter issue for power supply clarified	0d	12-Jul-10	12-Jul-10	301d			
6A-01-SUBS-100	cable duct for Power Intfed	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	30-Sep-10	581d			
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	30-Sep-10	301d			
6A-01-SUBS-40	Power Intfed from Public Net available inc HV cable	0d	01-Oct-10	27-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	Energyisation Scottish Power	0d	12-Nov-10	28-Jan-11	500d			
6A-01-SUBS-80	Testing and Commissioning	20d	17-Jan-11	11-Feb-11	445d			
<b>Access Roads</b>		<b>148d</b>	<b>12-Jul-10</b>	<b>18-Feb-11</b>	<b>440d</b>			
6A-01-ROAD-90(3)	Carpark	6d	12-Jul-10	19-Jul-10	524d			
6A-01-ROAD-91(3)	Handstanding	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			
<b>E &amp; M Installations</b>		<b>123d</b>	<b>16-Nov-10</b>	<b>24-May-11</b>	<b>375d</b>			
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	01-Dec-10	495d			
6A-01-ELEC-40	Access for visual inspection to cable pits for cable laying (Depot)	0d	01-Dec-10	01-Dec-10	488d			
6A-01-OHLE-41	Access for E&M Depot installation	0d	22-Dec-10	01-Jan-11	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	14-Jan-11	416d			
6A-01-ELEC-70	Install Electrical Cables Depot	25d	14-Jan-11	18-Feb-11	441d			

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■ Remaining Work   
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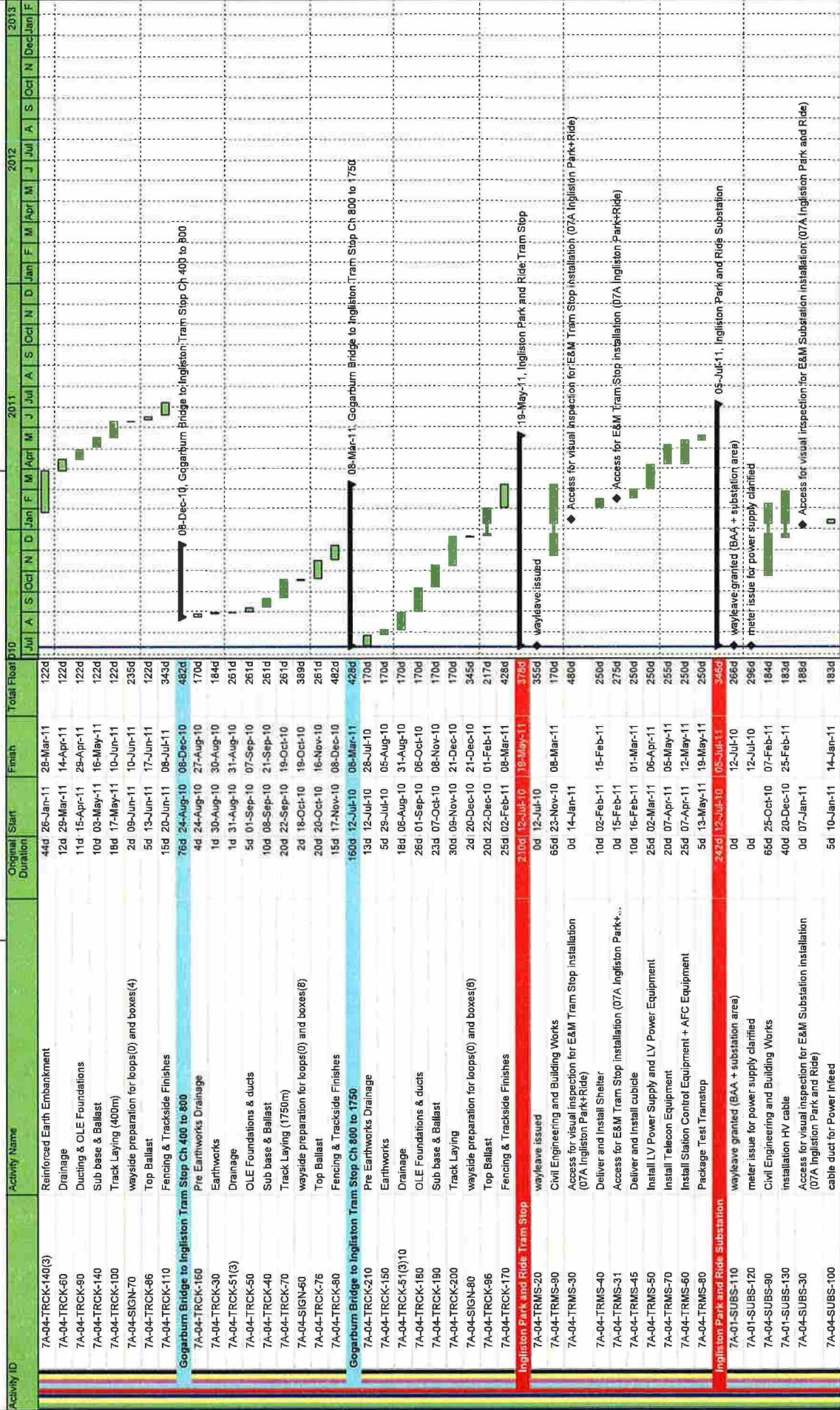
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# EDINBURGH TRAM NETWORK



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# EDINBURGH TRAM NETWORK

Activity ID	Activity Name	Original Start Duration	Finish	Total Float D10	2011	2012	2013
7A-04-SUBS-31	Access for E&M Substation installation (07A Ingliston Park and Ride)	0d 07-Feb-11		188d	Jul	Jul	Jan
7A-04-SUBS-40	Power Infeed from Public Net available inc HV cable	0d 28-Feb-11		183d	Jul	Jul	Jan
7A-04-SUBS-45	Install HV Power Supply and Equipment (SP)	15d 28-Feb-11	18-Mar-11	183d	Jul	Jul	Jan
7A-04-SUBS-50	Install LV Power Supply and LV Power Equipment	15d 21-Mar-11	11-Apr-11	346d	Jul	Jul	Jan
7A-04-SUBS-55	Energisation Scottish Power	0d 05-Apr-11		410d	Jul	Jul	Jan
7A-04-SUBS-70	Install Telecom and Scada	15d 12-Apr-11	03-May-11	346d	Jul	Jul	Jan
7A-04-SUBS-60	Installation of TPS Equipment	30d 04-May-11	15-Jun-11	346d	Jul	Jul	Jan
7A-04-SUBS-80	Testing and Commissioning	14d 16-Jun-11	05-Jul-11	346d	Jul	Jul	Jan
7A-04-SUBS-80	Testing and Commissioning	14d 16-Jun-11	05-Jul-11	346d	Jul	Jul	Jan
07-04-TRAM-20	Track Testing of Tram	20d 19-Aug-11	16-Sep-11	295d	Jul	Jul	Jan
07-04-TRAM-20	Track Testing of Tram	20d 19-Aug-11	16-Sep-11	295d	Jul	Jul	Jan
Ingliston Park & Ride (exc. to Edinburgh Airport (inc.))		298d 12-Jul-10	23-Sep-11	290d	Jul	Jul	Jan
Design		0d 12-Jul-10	12-Jul-10	588d	Jul	Jul	Jan
7A-05-TRCK-10	Issue Construction Drawings Trackwork (New Ingliston Ltd)	0d	12-Jul-10	588d	Jul	Jul	Jan
7A-05-TRCK-20	Issue Construction Drawings Gogarburn RW's Redesign	0d	12-Jul-10	119d	Jul	Jul	Jan
7A-05-TRCK-70	Track Laying (633m)	255d 12-Jul-10	25-Jun-11	335d	Jul	Jul	Jan
7A-05-TRCK-70	Track Laying (633m)	30d 06-May-11	20-Jun-11	119d	Jul	Jul	Jan
7A-05-SIGN-70	point machine mechanical set up	20d 06-May-11	06-Jun-11	127d	Jul	Jul	Jan
7A-05-SIGN-80	wayside preparation for loops(4) and boxes(12)	10d 06-Jun-11	20-Jun-11	230d	Jul	Jul	Jan
7A-05-TRCK-76	Top Ballast	10d 16-Jun-11	30-Jun-11	119d	Jul	Jul	Jan
7A-05-JNCS-60	Installation of traffic light control - Junction 210	4d 20-Jun-11	24-Jun-11	226d	Jul	Jul	Jan
7A-05-TRCK-80	Fencing & Trackside Finishes	17d 30-Jun-11	25-Jul-11	308d	Jul	Jul	Jan
Ingliston to Hilton Ch 1750 to 2040		13d 12-Jul-10	28-Jul-10	301d	Jul	Jul	Jan
7A-05-TRCK-60	Drainage	3d 12-Jul-10	14-Jul-10	298d	Jul	Jul	Jan
7A-05-TRCK-50	OLE Foundations & Ducts	3d 15-Jul-10	19-Jul-10	300d	Jul	Jul	Jan
7A-05-TRCK-40	Sub Base & Ballast	7d 20-Jul-10	28-Jul-10	301d	Jul	Jul	Jan
EAL Programme		200d 12-Jul-10	06-May-11	388d	Jul	Jul	Jan
Phase A (Ch 2040 to 2200)		18d 15-Jul-10	10-Aug-10	296d	Jul	Jul	Jan
7A-05-W14A-40(3)	Drainage	5d 15-Jul-10	21-Jul-10	298d	Jul	Jul	Jan
7A-05-W14A-45(3)	OLE Foundations / Street Lighting & Ducts	8d 22-Jul-10	03-Aug-10	298d	Jul	Jul	Jan
7A-05-W14A-50(3)	Earthworks Finishes sand layer / sub base	5d 04-Aug-10	10-Aug-10	298d	Jul	Jul	Jan
Phase B		157d 12-Jul-10	04-Mar-11	431d	Jul	Jul	Jan
7A-05-W14B-05(3)	Obtain EAL Permit	30d 12-Jul-10	24-Aug-10	162d	Jul	Jul	Jan
7A-05-W14B-10(3)	Earthworks (Fill 2300m3, Cut 2900m3, cap 660m3)	22d 24-Aug-10	23-Sep-10	162d	Jul	Jul	Jan
7A-05-W14B-15(3)	Drainage	10d 23-Sep-10	07-Oct-10	162d	Jul	Jul	Jan
7A-05-W14B-25(3)	Install Temporary Works	5d 23-Sep-10	30-Sep-10	162d	Jul	Jul	Jan
7A-05-W14B-20(3)	14b Reinforced Earth Wall	10d 30-Sep-10	14-Oct-10	162d	Jul	Jul	Jan
7A-05-W14B-30(3)	14c Reinforced Earth Wall	10d 07-Oct-10	21-Oct-10	162d	Jul	Jul	Jan
7A-05-W14B-35(3)	OLE Foundations / Street Lighting	10d 21-Oct-10	04-Nov-10	162d	Jul	Jul	Jan
7A-05-W14B-40(3)	Footpath Works	8d 04-Nov-10	16-Nov-10	162d	Jul	Jul	Jan
7A-05-W14B-45(3)	Signalised Junction at Eastfield Avenue	8d 16-Nov-10	26-Nov-10	162d	Jul	Jul	Jan
7A-05-W14B-50(3)	Earthworks sand / subbase / ballast	7d 26-Nov-10	08-Dec-10	162d	Jul	Jul	Jan
7A-05-W14B-55(3)	Crash Barrier Installation	8d 08-Dec-10	20-Dec-10	475d	Jul	Jul	Jan
7A-05-W14B-60(3)	Eastfield Avenue	52d 08-Dec-10	04-Mar-11	162d	Jul	Jul	Jan
Phase C		209d 12-Jul-10	06-May-11	119d	Jul	Jul	Jan
7A-05-W14C-05(3)	Obtain EAL Permit	30d 12-Jul-10	24-Aug-10	119d	Jul	Jul	Jan
7A-05-W14C-10(3)	Earthworks (cut 3600m3, Fill 1900m3)	20d 24-Aug-10	21-Sep-10	119d	Jul	Jul	Jan
7A-05-W14C-15(3)	Install temporary works	20d 21-Sep-10	19-Oct-10	118d	Jul	Jul	Jan
7A-05-W14C-20(3)	14d RC Retaining Wall	9d 19-Oct-10	21-Mar-11	119d	Jul	Jul	Jan

■ Remaining Work   
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float P10
7A-05-W14C-25(3)	Remove temporary works	12d 21-Mar-11	07-Apr-11	19d	
7A-05-W14C-30(3)	Drainage	12d 07-Apr-11	25-Apr-11	19d	
7A-05-W14C-35(3)	Earthworks sand / subbase / ballast / blackout	8d 25-Apr-11	06-May-11	19d	
7A-05-TRMS-20	Edinburgh Airport Tram Stop wayleave issued	236d 12-Jul-10	23-Sep-11	290d	
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		164d	
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 Telecom 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	



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**APPENDIX 5.2**

**SECTIONAL COMPLETION DATES**

<b>Section</b>	<b>Scope</b>	<b>Target Date</b>	<b>Remarks</b>
<b>A</b>	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>B</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
<b>C</b>	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)
<b>D</b>	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	

