AGREEMENT

FOR

CONTRACT PRICE

FOR

PHASE 1A

Dated 20 December 2007

CEC02085660_0001

1.0 Introduction

1.1 This document sets out the agreement reached between BBS and tie on 20 December 2007 in respect of the price for the delivery of Phase 1A of the Edinburgh Tram Network.

1.2 Contents

Details of the Agreement

Appendix A1 – Infraco Negotiation Summary Position

Appendix A2 – Detailed Summary Of Contract Price

Appendix A3 – Value Engineering Opportunities Register

Appendix A4 – Provisional Sums

DETAILS OF THE AGREEMENT

2.0 Negotiated Price

2.1 The negotiated price for Phase 1a is £218,262,426. Details of the build-up to this price are set out in Appendix A.

2.2 The agreed Value Engineering items included in the price are set out in Appendix A3. These sums are fixed reductions save for the conditions listed in Appendix A3 under 'Key Qualifications'.

2.3 Provisional sums (previously normalisations) included within the price are as set out in Appendix A4. These allowances are provisional sums for the work described.

2.4 All other prices are fixed and firm, based on the Basis of the Price as set out below.

3.0 Basis of the Price

3.1 The price is based on the following:

3.2 Employers Requirements Version 3.1 as qualified by the BBS Compliance Matrix contained within BBS's Email dated 12 December 2007, save for:-

- In respect of Prior Approvals and other consents the allocation of risk and responsibility is as set out in **tie** (G Gilbert) email dated 12 December 2007) – Appendix B1
- OLE – fixed termination system for all on street sections, from Haymarket to Newhaven and within Edinburgh Park and catenary system from Haymarket to Edinburgh Airport. Stepped poles will be adopted throughout.
- Trackform will be as the RHEDA City system (types C, D and G) except where ballasted track will be adopted as agreed.
- Maintenance requirements as discussed and as per Email of 12th December and 13th December 2007 – Appendix B2

The Parties acknowledge that the final Employer's Requirements will be subject to quality assurance of the final accepted consolidated version.

3.3 The BBS price for civils works includes for any impact on construction cost arising from the normal development and completion of designs based on the design intent for the scheme as represented by the design information drawings issued to BBS up to and including the design information drop on 25th November 2007. The price excludes:-

a) Items designated as provisional in the Appendix A4.
b) Any material changes to the design resulting from the impact of the kinematic envelope of the CAF tram vehicle on the civils design.
c) Excluded items, to the extent described in 3.4 below.

In respect of footways, full reuse of existing kerbs and flags and minimal reinstatement behind kerb lines is assumed. i.e. not wall to wall. Design must be delivered by the SDS in line with our construction delivery programme previously submitted.

CEC02085660_0005

For the avoidance of doubt normal development and completion of designs means the evolution of design through the stages of preliminary to construction stage and excludes changes of design principle, shape and form and outline specification

3.4 The BBS price for systems works is fixed save for:-

a) Items designated as provisional in the Appendix A4.
b) Any agreed material impact of the CAF tram vehicle specification on the traction power supply system as demonstrated by power simulation modelling.
c) In the event of any conflict between the obligations in the Employer's Requirements and the SDS design the obligations in the Employers Requirements shall prevail. BB 21/12/07

3.5 In all other respects the BBS price is fixed ~~obligations~~

3.6 Excluded items are:-

a) Utilities Diversions, except the £3m provisional sum included in the allowance for Picardy Place, York Place and London Road and £0.75m provisional sum for minor utilities diversion as shown in Appendix A4.
b) Work at St Andrew Square beyond the tram alignment works – tramstops, trackform, track bed, OHLE, road surface refurbishing and associated systems and link works.
c) The cost of the following within the Forth Ports Area:
   — Road surface finishes, pavings, tramstop finishes and drainage.
   — Work to Tower Place and Victoria Dock bridges.
   — Lindsay Road Retaining Wall and associated highway works.

   which is extra over the scope included in BBS's price as at selection of BBS as preferred bidder.
d) The Cost of the Highways and Drainage works at Picardy Place, London Road and York Place that is extra over the scope included in BBS's price as at selection of BBS as preferred bidder.
e) Ground conditions that require works that could not be reasonably foreseen by an experienced civil engineering contractor based on the ground conditions reports provided to BBS on 20th and 27th of November and 6th December 2007. Additionally the BBS price does not include for dealing with replacement of any materials below the earthworks outline or below ground obstructions/voids, soft material or any contaminated materials.
f) Bernard Street additional road works as drawing provided.
g) Completing full footway reconstruction in Leith Walk beyond the allowance made where kerb lines are being re-sited.

3.7 In respect of the Depot excavation works, the price is fixed against the quantities advised to BBS by **tie** and on the assumption that the depot excavation will be handed over to us pumped dry with a firm sound foundation.

3.8 The price excludes any scope required by Third Parties which is not included within the designs issued up to and including 25th November 2007. BBS and tie will consult with Third Parties prior to contract award to agree local Codes

of Construction Practice. The price will be adjusted for any changes to constraints and additional scope which arises out of these agreements.

3.9 In respect of the highways work in Princes Street, Shandwick Place and Haymarket Junction, BBS's price is based on planing back the existing road structure to a sound base and replacement with an acceptable roads construction suitable for purpose to suit the revised road surface profile. Full depth reconstruction as the current designs in this area is not included in the Price.

3.10 The programme for delivery of Phase 1A is:-

- as represented by the programme provided by BBS dated 11th December 2007 which shows a completion of 8th August 2011 (sent to **tie** on 13th December 2007 – Appendix B3),
- based on the contents and assumptions set out in BBS email (Steve Sharpe) dated 13th December 2007 – Appendix B4, BBS and tie will work to deliver completion of Phase 1a by 11th Feb 2011 and
- based on the constraints and methodologies as agreed between BBS, **tie**, TEL and CEC.

It is agreed that all parties must work together to achieve the rationalisation of city centre constraints to achieve programme delivery. BBS have not allowed in the Price for completion beyond March 2011.

3.11 Contract terms as represented by the negotiations up to 14th Dec 2007 and for the avoidance of doubt:-

a) Consents as set out in **tie** email (Geoff Gilbert) to BBS dated 12th December 2007 – Appendix B1.
b) Third Party Agreement and Third Party obligations as set out in BBS email (M Flynn) dated 12th December 2007 – Appendix B5.
c) The novation of SDS to Infraco as set out in the Novation Plan.
d) The novation of Tramco to Infraco at the date of Infraco Contract Award.
e) The terms negotiated and under negotiation prevail over statement in respect of contract issues stated in the technical information submitted by BBS.

3.12 In all other respects the conditions of the Preferred Bidder Agreement apply.

4.0 Agreement

4.1 This document is agreed as a record of the outcome of the negotiations:-

for and on behalf of **tie LIMITED**

on the 20th December 2007

Authorised signatory: [redacted]

Full name: WILLIAM CALLAGHER

EXECUTED for and on behalf of BBS

on the .....December 2007

Authorised signatory: [redacted].....

Full name: R B WALKER. BILANZGR BERLIN

Authorised Signatory [redacted] 21/12/07

Full Name: S. WRIGHT SIEMENS.

APPENDIX A

APPENDIX B1

APPENDIX B2

APPENDIX B3

APPENDIX B4

APPENDIX B5

INFRACO NEGOTIATION SUMMARY POSITION
Date:- 18/12/07

	Current £m		Comments
Fixed Elements			See Appendix A2 for further details
Core contract sum - firm price	211,910,342		
Provisional elements taken into firm	0		All previously provisional items taken to firm
VE taken into firm price	-83,000		
VE taken into firm price - but conditional	-11,065,006		See conditions referred to in Appendix A3
Premium for current provisional items	8,000,000		Negotiated sum for firming up all elements
Total firm price	208,762,336	**94%**	
Provisional Sums	12,170,090		Previous normalisations which are still relevant - See Appendix A4 plus £2m provisional sum for SDS design post novation (See RW Email 11/10/07)
Total Provisional	12,170,090		
Sub total	220,932,426		
Remaining Identified VE	-2,670,000		To be stated in contract with rules for adjustment of price and commitments for both parties work to deliver these items
Anticipated Infraco Contract Sum (Final Deal)	**218,262,426**		

DETAILED SUMMARY OF CONTRACT PRICE

APPENDIX A2

Item	Prelims	Trackform - System	Depot	Structures - Superstructure	Highways	Tramstops	Buildings	Supervisory & Comms	OLE	Tramstop Equipment	Trams	Reduction as BBS letter 11/10/07	Reduction for taking CAF into BBS Consortia	Traction Power	Power for commissioning	System Wide	Network Rail	Total
Base																		
Firm	73,437,757	43,918,161	18,686,351	31,415,121	11,893,955	3,270,376	3,275,180	5,296,482	14,974,462	1,513,587	1,018,910	-1,000,000			1,330,000	-120,000	3,000,000	211,910,342
Provisional	2,000,000																	2,000,000
Firm price addition																8,000,000		8,000,000
Sub-total Base	75,437,757	43,918,161	18,686,351	31,415,121	11,893,955	3,270,376	3,275,180	5,296,482	14,974,462	1,513,587	1,018,910	-1,000,000	0	0	1,330,000	7,880,000	3,000,000	221,910,342
Provisional (See Appendix A4 for details)																		
Provision of pumped surface water outfall system at A8 underpass			100,000															100,000
Spares not included in Price									174,762									174,762
Scottish Power Connections to Depot and IPR									750,000									750,000
Relocation of Ancient Monuments	53,700																	53,700
Allowance for minor utility diversions		750,000																750,000
Archaeological Officer - impact on productivity		405,755																405,755
Ballast		300,000																300,000
Piccardy Place, York Place and London Road junction					6,340,324													6,340,324
E/O Shell Grip					319,343													319,343
Mains Power Connection to street lights and traffic signals					115,287													115,287
Adjust for Network Rail Possessions support				755,307														755,307
Leith Walk substation demolition				55,662														55,662
Additional Crew Relief Facilities at Haymarket				49,950														49,950
Sub-total - Provisional Normalisation	53,700	1,455,755	100,000	860,919	6,774,955	0	0	0	924,762	0	0	0	0	0	0	0	0	10,170,090
Value Engineering																		
Firm																		
NR Immunisation. NOW IN FIRM PRICE - SEE ABOVE																		0
Signalling & Comms - fewer CCTV cameras .																		
Reduced to 55Nr . (Tramstops 45Nr, Depot 10Nr)								-33,000										-33,000
UPS - reduce capacity from 4hrs to 3hrs								-50,000										-50,000
																		0
Sub-total - Firm Value Engineering	0	0	0	0	0	0	0	-83,000	0	0	0	0	0	0	0	0	0	-83,000
Firm with conditions																		
Delete depot pumping station/storm tanks by utilising existing gravity system.			-193,526															-193,526
Depot - Build part now with provision to expand in the future/reduce size of car park facilities			-230,000															-230,000
Delete under floor lift plant and utilise mobile jacks. Incl mobile future proofing.			-250,000															-250,000
Depot - delet split vehicle accommodation system - requirement dependant on tram vehicle selection			-27,500															-27,500
Depot - Track Maintenance Equipment - rationalise scope requirement and consider renting.			-27,500															-27,500
Depot - deletion of one pavement (inner) .			-36,000															-36,000
Depot - delete requirement for concrete apron to security fence			-6,080															-6,080
Depot - delete compressed air system, utilise 1 or 2 local /mobile compressors			-54,400															-54,400
Consolidated VE items 7, 10, 11, 19 which results from changes to initial Depot design driven by proximity to BAA runway and EARL decision.			-2,200,000															-2,200,000
Delete standby generator and substitute with hardstanding and power connection for portable generator.			-150,000															-150,000
Material recovery and reprocessing (Infraco); 2 options - reconstituted planings & Type 1R					-500,000													-500,000
Reduce Kerb and associated re-instatement of pavement					-100,000													-100,000
Reduce drainage run from guideway					-100,000													-100,000
Overhead Contact system - Switchgear - rationalise specification - considered "quite onerous"									-160,000									-160,000
Edinburgh Park Bridge - 7 span to 2 , utilise steel beams in lieu of concrete Edinburgh Park Viaduct				-1,470,000														-1,470,000
Carricknowe Bridge Parapet - down grade from P8 / P5 to N2 (reduced cost of parapet plus knock on effect on deck design/cost)				-85,000														-85,000
A8 Underpass various initiatives				-850,000														-850,000
Rosebum Street viaduct various initiatives				-1,375,000														-1,375,000

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DETAILED SUMMARY OF CONTRACT PRICE

APPENDIX A2

Item	Prelims	Trackform - System	Depot	Structures - Superstructure	Highways	Tramstops	Buildings	Supervisory & Comms	OLE	Tramstop Equipment	Trams	Reduction as BBS letter 11/10/07	Reduction for taking CAF into BBS Consortia	Traction Power	Power for commissioning	System Wide	Network Rail	Total
Water of Leith various intiatives				-150,000														-150,000
Eight maintenance walkway structures - delete or reduce				-250,000														-250,000
Class 7 material conversion -				-300,000														-300,000
Optimise the work site lengths wherever practical to ensure efficient construction outputs																-300,000		-300,000
Accept more disruption over shorter period to maximise efficiency of construction operations -																-100,000		-100,000
Option to lease UPS provision from Supplier rather than purchase																-300,000		-300,000
Rationalising spares supplied with the Infraco bid																-300,000		-300,000
PM Integration including shared resources and co-location.																-1,000,000		-1,000,000
Noise attenuation (outside of Roseburn Corridor) 3,650m of fencing		-50,000																-50,000
Reduce ballasted track thickness from 300 to 200mm		-200,000																-200,000
Power Supply (up to passenger operation) - possible over allowance in DFBC														-300,000				-300,000
Sub-total - Provisional Value Engineering	0	-250,000	-3,175,006	-4,480,000	-700,000	0	0	0	-160,000	0	0	0	0	-300,000	0	-2,000,000	0	-11,065,006
Further project management integration over 3 years																-500,000		-500,000
SDS design scope economy, variation and reduction																-500,000		-500,000
Tramstops, standard finishes to circa 20-30% of stops										-500,000								-500,000
Picardy place level flexing - MUDFA savings					-500,000													-500,000
Picardy place level flexing - construction savings					-500,000													-500,000
Siemens agreement to reduce fixed price on item 49 above by £10,000. Now included in item 49 above.																		0
Siemens agreement to reduce fixed price on item 145 above by £200,000. Now included in item 145 above.																		0
Value engineer finishes on EPV and other structures				-170,000														-170,000
Other unidentified VE items																0		0
Sub-total - Provisional Value Engineering	0	0	0	-170,000	-1,000,000	0	0	0	0	-500,000	0	0	0	0	0	-1,000,000	0	-2,670,000
Total Anticipated Value	75,491,457	45,373,916	18,786,351	32,106,040	17,668,910	3,270,376	3,275,180	5,213,482	15,899,224	1,013,687	1,018,910	-1,000,000	0	0	1,330,000	6,880,000	3,000,000	218,262,426

CEC02085660_0027

EDINBURGH TRAM PROJECT - PHASE 1A

71214 Single VE List v31 agreed bbs tie v1

VALUE ENGINEERING OPPORTUNITIES REGISTER

REF	ITEM	FILTER	VALUE		NOTES	Key Qualifications
			Target	Agreed BBS position		
	BUILDINGS					
					The 2 sub-station items have been rejected by BBS.	
	BUILDINGS TOTAL		£0	£0		
	DEPOT					
8	Delete depot pumping station/storm tanks by utilising existing gravity system.	Depot	£193,526	£193,526	tie may need to add in cost of a small pump	tie's carries specification/acceptance risk and cost of additional pump
9	Depot - Build part now with provision to expand in the future/reduce size of car park facilities	Depot	£230,000	£230,000	Initial supply of 100 car park places agreed.	tie's carries specification/acceptance risk
14	Delete under floor lift plant and utilise mobile jacks. Incl mobile future proofing.	Depot	£250,000	£250,000		tie's carries specification/acceptance risk
16	Depot - delet split vehicle accommodation system - requirement dependant on tram vehicle selection	Depot	£27,500	£27,500	Accomodation bogies are in CAF offer	tie's carries specification/acceptance risk
17	Depot - Track Maintenance Equipment - rationalise scope requirement and consider renting.	Depot	£27,500	£27,500		tie's carries specification/acceptance risk
20	Depot - deletion of one pavement (inner) .	Depot	£36,000	£36,000	Shown on latest site plan drawings.	tie's carries specification/acceptance risk
24	Depot - delete requirement for concrete apron to security fence	Depot	£6,080	£6,080		tie's carries specification/acceptance risk
129	Depot - delete compressed air system, utilise 1 or 2 local /mobile compressors	Depot	£54,400	£54,400		tie's carries specification/acceptance risk
145	Consolidated VE items 7, 10, 11, 19 which results from changes to initial Depot design driven by proximity to BAA runway and EARL decision.	Depot	£3,181,264	2,000,000	Includes rreductions in structural loadings (gantry crane reduced in capacity and size impacting on building frame and envelope), reductions in staff accommodation provision (reduced operational workforce reducing messing facilities, changing rooms, locke	DTC but compliant with current technical /design info. Subsequent saving of £200,000 added see below.
New	Delete standby generator and substitute with hardstanding and power connection for portable generator.	Depot	£250,000	150,000		tie's carries specification/acceptance risk

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EDINBURGH TRAM PROJECT - PHASE 1A

71214 Single VE List v31 agreed bbs tie v1

VALUE ENGINEERING OPPORTUNITIES REGISTER

REF	ITEM	FILTER	VALUE		NOTES	Key Qualifications
	DEPOT TOTAL		**£4,256,270**	**£2,975,006**		
	HIGHWAYS					
36b	Material recovery and reprocessing (Infraco); 2 options - reconstituted planings & Type 1R	Highways	£500,000	£500,000		Subject to confirmation from SDS; level of saving subject to adjustment of quantity of this item based on the final design
152	Reduce Kerb and associated re-instatement of pavement	Highways	£100,000	£100,000		Subject to confirmation from SDS; level of saving subject to adjustment of quantity of this item based on the final design
153	Reduce drainage run from guideway	Highways	£100,000	£100,000		Subject to confirmation from SDS; level of saving subject to adjustment of quantity of this item based on the final design
	HIGHWAYS TOTAL		**£700,000**	**£700,000**		
	NETWORK RAIL					
42	NR Immunisation - ensure design of immunisation is based on minimum safe propagation distance (e.g. <100m). Project budget previously very conservative.	NR	£4,700,000	4,700,000	Original proposal work by BBS suggests a target of less <50m may be achievable.	Terms remain as BBS letter; particularly that tie carries NR cost risk
	NETWORK RAIL TOTAL		**£4,700,000**	**£4,700,000**		
	OLE					
49	Overhead Contact system - Switchgear - rationalise specification - considered "quite onerous"	OLE	£336,000	150,000	Price change requested for manual, three position cubicle mounted line islators throughout, with the exception of the depot where they can be pole mounted. Status of isolator to be shown via SCADA.	Siemens commitment related to non specific items
135	OLE - Catenary opportunity in Sections 5 to 7 - replace trolley wire with catenary on segregated sections.	OLE		0	Detailed price change requested for: catenary with 3-step poles Haymarket Yard-Russell Road (Russell Road-Airport already catenary); fixed termination Haymarket Yards-Newhaven; Tapered Poles Haymarket-Newhaven.	No net savings. All in price. Assumes fully compliant with planning and technical requirements but excludes tapered poles.
149	Provision of combined incoming and return cabinet.	OLE	£42,000	0		tie proven to be incompatible with SP feeder arrangements.
	OLE TOTAL		**£378,000**	**£150,000**		
	STRUCTURES					
54	Value Engineering/ de-risked pricing approach developed for the final designs for all structures, particularly substructures and foundations (where not covered below)	Structures	£2,000,000	0		Unable to commit
55	Edinburgh Park Viaduct various savings including use of cross heads to eliminate temp works, steel or concrete beams.	Structures	£1,470,000	1,470,000	This assumes continuation with 7 span structure.	Subject to approval of design by NEL/ CEC and subject to SDS designing to cost

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71214 Single VE List v31 agreed bbs tie v1

VALUE ENGINEERING OPPORTUNITIES REGISTER

REF	ITEM	FILTER	VALUE		NOTES	Key Qualifications
56	Carricknowe Bridge Parapet - down grade from P6 / P5 to N2 (reduced cost of parapet plus knock on effect on deck design/cost)	Structures	£85,000	85,000		Subject to approval of design by Network Rail
57	A8 Underpass various initiatives	Structures	£850,000	850,000	Changing to a contiguous piled wall/ leaner designs	Subject to being able to design to cost
New	Roseburn Street viaduct various initiatives	Structures	£1,375,000	£1,375,000		Subject to approval by stakeholders - SRU and Network Rail
New	Water of Leith various intiatives	Structures	£150,000	150,000		Subject to being able to design to cost
New	Eight maintenance walkway structures - delete or reduce	Structures	£250,000	250,000	Unlikely to yield net savings unless structure needs to be redesigned for other purposes.	Subject to being able to design to cost; and tie taking approvals risk
New	Russel rd Bridge piling changes	Structures	£100,000	0		Subject to being able to design to cost
154	Class 7 material conversion -	Structures	£300,000	£300,000		Subject to confirmation of SDS agreeing to principle; level of saving subject to adjustment of quantity of fill required by the final design
	STRUCTURES TOTAL		**£6,580,000**	**£4,480,000**		
	SUPERVISORY & COMMS					
65	Signalling & Comms - fewer CCTV cameras . Reduced to 55Nr . (Tramstops 45Nr, Depot 10Nr)	Supervisory & Comms	£100,000	33,000	Price requested for 55 off for Phase 1a	
69	Signalling & Comms - rationalise fibre optic ring. More economic architecture that performs the same function could be employed	Supervisory & Comms	£100,000	0	Ensure separation 1a and 1b costs	
73	Signalling & Comms - Current requirement for location and interface of the SCADA and Points controllers etc is unnecessarily complex.	Supervisory & Comms	£50,000	0	A simpler solution e.g. as in Nottingham, would be cheaper and more user friendly.	
74	Signalling & Comms - rationalise loop quantities by combining some loop functions	Supervisory & Comms	£87,500	0		
75	Signalling & Comms - Remove ambient noise sensing on the passenger announcement system	Supervisory & Comms	£7,000	0	Price change requested.	
163	UPS - reduce capacity from 4hrs to 3hrs	Supervisory & Comms	£50,000	50,000	Would be included in financial advantage for proposal to outsource UPS provision to Chloride.	
165	Reduce nr of Signalised Pedestrian Xings.	Supervisory & Comms	?	0	From review of latest road layouts there is a signifcant increase in qtys. May need to challenge CEC (c.£50k/ crossing)	
	SUPERVISORY & COMMS TOTAL		**£394,500**	**£83,000**	BBS have agreed to review Phase 1a/1b split. Still outstanding.	
	SYSTEM WIDE					
77	Optimise the work site lengths wherever practical to ensure efficient construction outputs	System Wide	£300,000	300,000	Linked to other discussions e.g. Rhaeda City trackform (see 138 too)	Subject to further Programme development with CEC, confirm by 9th January.
80	Accept more disruption over shorter period to maximise efficiency of construction operations -	System Wide	£100,000	100,000	Intitial discussions suggests CEC are likely to be flexible	Subject to further Programme development with CEC, confirm by 9th January.

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EDINBURGH TRAM PROJECT - **PHASE 1A**

71214 Single VE List v31 agreed bbs tie v1

VALUE ENGINEERING OPPORTUNITIES REGISTER

REF	ITEM	FILTER	VALUE		NOTES	Key Qualifications
148	Remove spare capacity from OTN (linked to item 69)	System Wide	£180,000	0		
150	Option to lease UPS provision from Supplier rather than purchase	System Wide	£300,000	300,000	Originally BBS proposal	Subject to agreement of operator
151	Rationalising spares supplied with the Infraco bid	System Wide	£300,000	300,000	Originally BBS proposal	Subject to agreement of operator
160	PM Integration including shared resources and co-location.	System wide	£1,000,000	1,000,000	Late BBS VE proposal	Subject to BBS /tie agreeing savings in resources and facilites items from BBS and tie costs
	SYSTEM WIDE TOTAL		**£2,180,000**	**£2,000,000**		
	TRACK FORM					
100	Noise attenuation (outside of Roseburn Corridor) 3,650m of fencing	Trackform	£50,000	50,000	Also a timing issue, because we would not necessarily install during construction but await reaction if any.	Subject to property owner claims
138	Trackform - changing embedded to ballast rail. Ballasted track adjacent to NwkRail	Trackform	£2,000,000	0	Awaiting a formal technical and financial proposal for Rhaeda City trackform for both embedded and grass and a validated construction programme.	Unlikely to yield savings because of short distance. Plus maintenance implications.
156	Track installation install in strips.	Trackform	£0	0	Would need v strong justification.	Unacceptable
164	Reduce ballasted track thickness from 300 to 200mm	Trackform	£300,000	200,000		Design to cost.
	TRACK FORM TOTAL		**£2,350,000**	**£250,000**		
	TRACTION POWER					
103	11Kv Traction Power feeds to sub stations including any network reinforcement required (separate VE 104).	Traction Power	?	0	Dialogue needed with tie to incorporate SP negotiated savings into BBS proposal.	Defer until SP current phase of negotiations is complete.
109	Power supply - Russell Rd TPH - equipment for future upgrade to substation to be supplied when needed i.e. don't supply transformer rectifier now.	Traction Power	?	0	BBS have been instructed to assume that for Ph 1a on its own nothing at all will be required at Russell Road. Separate discussion re Phase 1b still continuing.	BBS to check equipment included and advise. ASAP
158	Power Supply (up to passenger operation) - possible over allowance in DFBC	Traction Power	£300,000	300,000		Subject to tie demonstrating evidence.
	TRACTION POWER TOTAL		**£300,000**	**£300,000**		
New	**Other unidentified VE items**	**Other**	**£1,000,000**	**£0**		Need specifics for BBS commitment therefore zero.
	UNIDENTIFIED VE TOTAL		**£1,000,000**	**£0**		
				£0		Need specifics for BBS commitment therefore zero.
	NEW INITIATIVES AGREED AFTER MAIN MEETING					

CEC02085660_0035

EDINBURGH TRAM PROJECT - PHASE 1A

71214 Single VE List v31 agreed bbs tie v1

VALUE ENGINEERING OPPORTUNITIES REGISTER

REF	ITEM	FILTER	VALUE		NOTES	Key Qualifications
New	Further project management integration over 3 years			£500,000		Joint target
New	SDS design scope economy, variation and reduction			£500,000		Joint target
New	Tramstops, standard finishes to circa 20-30% of stops			£500,000		Joint target
New	Picardy place level flexing - MUDFA savings			£500,000		tie led initiative
New	Picardy place level flexing - construction savings			£500,000		Joint target
NOTE	BB agreement to reduce fixed price £120,000			£120,000	**for the record only (not part of VE savings)**	BB risk
NOTE	Siemens agreement to reduce fixed price on item 49 above by £10,000			£10,000		Siemens risk
NOTE	Siemens agreement to reduce fixed price on item 145 above by £200,000			£200,000		Siemens risk
New	Value engineer finishes on EPV and other structures	Structures		£170,000		Subject to approval by NEL/CEC
	NEW VE INITIATIVES TOTAL		**£0**	**£3,000,000**		
	TOTAL			**18,638,006**		

CEC02085660_0037

	Description	BBS 3 1A	1B	Total
34 .	Provision of pumped surface water outfall system at A8 underpass	100	-	100
62 .	Spares not included in Price	175	100	275
70 .	Scottish Power Connections to Depot and IPR	750	-	750
71 .	Relocation of Ancient Monuments	54	-	54
63 .	CCTV cameras		313	313
8 .	E/O carrier drains	-	1,645	1,645
16 .	Allowance for minor utility diversions	750	250	1,000
23 .	Archaeological Officer - impact on productivity	406	-	406
64 .	Ballast	300	-	300
50 .	Gogarburn Tram Stop By RBS		-	-
Sub Total Infraco Normalisation exc. Highways & Struct		**2,534**	**2,307**	**4,842**
3 .	Piccardy Place, York Place and London Road junction	6,340	-	6,340
4 .	Extent of road refinishing in critical on street areas		-	-
22 .	E/O Shell Grip	319	126	445
27 .	Mains Power Connection to street lights and traffic signals	115	29	144
Sub Total Highways		**6,775**	**154**	**6,929**
19 .	Adjust for Network Rail Possessions support	755	-	755
20 .	Balgreen Road - new structure reqd		-	-
26 .	S23 Carrick Knowe Widening		-	-
28 .	Leith Walk substation demolition	56	-	56
31 .	Additional Crew Relief Facilities at Haymarket	50	-	50
32 .	Structure S18 allowance for anticipated works		-	-
61 .	Roseburn corridor retaining wall align assumptions	-	3,228	3,228
Sub Total Structures		**861**	**3,228**	**4,089**
Total		**10,170**	**5,690**	**15,860**

CEC02085660_0039

APPENDIX A

APPENDIX B1

Geoff Gilbert

From: Geoff Gilbert
Sent: 12 December 2007 21:00
To: flynn.michael@siemens.com
Cc: Tom.Murray@bilfinger.co.uk; 'Scott.McFadzen@bilfinger.co.uk'; Richard.Walker@bilfinger.co.uk; Bob Dawson; Valerie Clementson
Subject: Draft Consents Paper GG 121207
Attachments: Draft Consents Paper GG 121207.doc

Michael

Simplified proposal from us on consents enclosed. Can we discuss tomorrow morning.

Regards

Geoff Gilbert - Project Commercial Director

TRAM Project

tie Limited

Citypoint

65 Haymarket Terrace

Edinburgh EH12 5HD

tel [redacted]

mob [redacted]

tie Limited

Edinburgh TRAM Project
(Commercial In Confidence)

Subject : Infraco Contract Terms Clarifications

Review area : Consents

Date : 12th December 2007

1.0 Principles

2.1 The allocation of responsibility for consents in the contract will be as follows:-

- The following consents will be the responsibility of tie to obtain
  - TROs for the permanent scheme
  - TTROs to enable the scheme to be constructed, with BBS support (tie have already applied for blanket TTRO's)
  - Network Rail possessions – tie book these based on BBS programme dates (note these are already booked now wrong dates – need to be re-booked to comply with revised Infraco Contract)

  BBS provides relevant support to tie to obtain these consents.
- SDS obtain other consents required to fulfil their contract obligations. Agreed consents being obtained by SDS will be clarified in the novation agreement with a list of consents stating the status of consents at Novation. The list of consents being obtained by SDS is set out in Appendix A.
- BBS obtain all other consents, those required for construction activities and also those required to commission the system and enable it to open for passenger carrying operation. Support is provided by SDS where relevant.
- Tie will provide support to BBS to assist them in obtaining consents from third parties where they are not co-operating, provided BBS has provided the requisite information to obtain the consent and comply with the consent authorities timescales.
- Where consents are not put in place by SDS to meet the BBS programme in the Infraco Proposals then the impact on programme will be a CE, subject to certain provisos as set out later in this paper.

Tie will consider a CE where BBS are unable to obtain consents. To enable tie to assess whether it is prepared to do this SDS is to advise tie of the specific consents that it is concerned about. Tie will not agree to a blanket CE for all consents to be obtained by Infraco. Where tie agrees to a CE where BBS are unable to obtain consents this will be subject to the provisos listed below in 9 below.

2.0 Traffic Regulation Orders [TROs]

2.1 The TROs are to be obtained by tie with relevant technical support and programme information being provided by BBS.

2.2 If BBS action or inaction delays this process and to the extent that this delays completion of the scheme will not be a CE.

3.0 Temporary Traffic Regulation Orders [TTROs]

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3.1 The TTROs are to be obtained by **tie** but based on the programme and technical information being provided by BBS, including traffic management proposals. This will in essence be the implementation of the On Street Construction Works Methodology which is to contain all the details necessary for tie to draw down a TTRO, including traffic management arrangements proposed by BBS.

3.2 If BBS action or inaction delays this process and to the extent that this delays completion of the scheme will not be a CE.

4.0 Network Rail

4.1 Possessions have already been booked by **tie** in accordance with BBS's requirements.Possessions need to be re-booked to suit revised Infraco Contract.

4.2 BBS (including providing design and technical information where necessary) will prepare and provide to tie all necessary paperwork to enable tie to make an application for possessions to Network Rail.

4.3 The responsibility for payment for these possessions will rest with **tie** but any changes to possessions as a result of BBS being in culpable delay will then rest with BBS.

4.4 Any changes to possessions as a result of Network Rail will, subject to usual tests, lead to a Compensation Event for BBS.

5.0 Discharge Consents (water)

5.1 There are two situations here, namely:

- Temporary Discharge Consents
- Permanent Discharge Consents

5.2 Clearly BBS has to be responsible for temporary discharge consents as these will relate to their method of working or other preliminaries items such as their site set up.

5.3 With regard to the permanent discharge consents BBS want these to be in place prior to novation of SDS. If this can be achieved then it would be the preferred position. BBS to check SDS programme to determine whether these are in place.

5.4 It is logical that BBS are responsible for obtaining the permanent discharge consents as SDS will be their consultant not tie's for this element of the work. Permanent discharge consents are required prior to commencement of the relevant drainage works. If these are refused due to SDS errors it will be a matter for BBS to resolve with SDS (subject to the SDS having obtained a permanent discharge consent and designed an agreed outfall arrangement for the Depot?). However if refused or made conditional upon works being

undertaken e.g. betterment, upgrading, new or renewal requirements for other reasons outside of BBS/SDS control then it is suggested that this becomes a **tie** change.

6.0 Building Warrants

6.1 The Building Warrants relate to compliance with technical standards and thus it is appropriate that this rests with BBS (SDS providing this to BBS other than where BBS have or are to undertake the design).

7.0 Building Fixing Agreements (for overhead line)

7.1 SDS have a responsibility to obtain Building Fixing Agreement and thus under the novation arrangement this will rest with BBS.

7.2 However **tie** has already acknowledged that obtaining a Building Fixing Agreement is not necessarily guaranteed. Heritable Proprietors (owners) have the right to object and quite probably most will. Thereafter CEC/**tie** determines whether to take the matter to the Sheriff Court.

7.3 Although Building Fixings Agreements remain as the preferred solution, SDS is also progressing the approval of poles to support the overhead line.

7.4 If Building Fixing Agreement is not obtained in a particular location, then within limits of being technically feasible and programme constraints for a new request, alternative locations for a Building Fixing are to be sought.

7.5 Where it is not technically feasible to use an alternative location for a Building Fixing or the programme constraints are insufficient for a new request, then the 'fall-back position' of the use of a pole becomes a **tie** Change.

7.6 Where there is uncertainty of likely outcome, consideration will be given to a dual approach of seeking Building Fixings and also installing foundations for a pole (as a **tie** Change).

8.0 Other consents related to design

10.1 All other consents related to design will rest with BBS.

9.0 Compensation Event where consents are not obtained or are delayed by SDS

11.1 BBS will be entitiled to a CE where a consent is not provided by the authority providing the consent by the date that it is shown as required on the programme included in the Infraco Proposals provided that:

- It relates to a consent that SDS are due to obtain in accordance with their contract (excluding any additional consents that Infraco may have instructed SDS to obtain after novation)
- Infraco explains the reasons given by the consenting authority as to why they will not or have not provided consent within the agreed period (with supporting documentation)

- Infraco advises tie immediately that it becomes aware that a consent may not be obtained by the due date. In such circumstances Infraco will afford tie the opportunity to meet with the authority providing the consent with a view to resolving the situation and Infraco attends the meeting with tie and supports tie in this respect.
- Infraco demonstrates that:-
  - Not receiving the consent has had or will have a material impact on the progress of the works
  - Infraco have taken all reasonable steps to obtain the consent
  - Infraco has provided all information necessary to obtain the consent within the timescales agreed with the authority providing the consent
  - the failure by the authority required to provide the consent has not been brought about by Infraco reprogramming the works or reprogramming or reprioritising the design programme such that a timescale agreed with the authority providing the consent cannot now be achieved
  - the authority providing the consent has not responded within the agreed timescales
  - Infraco has undertaken or plans to undertake mitigation actions in a timely manner to avoid or mitigate the impact of any delay in obtaining consent.
  - The failure in obtaining a consent is not due to a failure on the part of SDS to deliver the obligations of their contract.

APPENDIX A

CONSENTS
(Commercial In Confidence)

Railways and Aviation	HMRI	HMRI	Ongoing process with HMRI
	Network Rail	Network Rail	Ongoing negotiations with NR
	BAA/Aviation Consents	BAACAA/NATS	Ongoing negotiations with BAA
Planning	Listed Building Consent	CEC Planning Authority	
	Prior Approval	CEC Planning Authority	
	Planning Permission	CEC Planning Authority	
	Conservation Area Consent	CEC Planning Authority	Not applicable within LoD
	Scheduled Monument Consent	Scottish Executive & Historic Scotland	
	Advertisement Consent	CEC Planning Authority	Information signs "deemed consent"
Traffic Management	Road Construction Consent	CEC Roads Authority	
Environment Ecological	Badger Licence	Scottish Natural Heritage	Environmental Team
	Otter holt/disturbance licence	Scottish Natural Heritage	
	Bat Licence	Scottish Natural Heritage	
	Appropriate Assessment	Competent Authority	
Drainage CAR	CAR General Binding Rules	SEPA	
	CAR Registration	SEPA	
	CAR License	SEPA	
	Water/ Wastewater Connection	Scottish Water	
Construction	Technical Approval	CEC Bridges/ CEC Roads	
	Building Warrant	CEC Building Standards	
Radio	OFCOM license	OFCOM	
Design Consultation	Third Party Design Consultation		
Undertakings	Undertakings to Parliament	n/a	Undertakings and Agreements to Parliament and with 3rd parties that must be met
Agreements	Agreements with 3rd Parties	n/a	
Letter of Comfort	Letter of comfort	n/a	
Letter of Closure	Letter of Closure	n/a	

APPENDIX B2

Geoff Gilbert

From: Alastair Richards - TEL
Sent: 20 December 2007 18:27
To: Geoff Gilbert
Subject: FW: Employer's Requirements - 3.03 (draft) - Maintenance Section
Attachments: ERs - Maintenance - Draft 3 03 for Informal Issue ONLY_rev20071211.pdf

---

From: Brauns, Bernhard [mailto:bernhard.brauns@siemens.com]
Sent: Wed 12/12/2007 7:23 PM
To: Alastair Richards - TEL
Cc: scott.mcfadzen@bilfinger.de; Brueckmann, Roland
Subject: AW: Employer's Requirements - 3.03 (draft) - Maintenance Section

Hello Alastair,

please find attached the ER with my comments (directly in the pdf document).

In case you can't see the comments, please give me a ring - I'd then have to convert the pdf into a Word document.

With best regards,
Bernhard Brauns

Siemens AG
Transportation Systems
Integrated Services
TS IS S12
Sieboldstr. 16
91052 Erlangen, Germany
Tel.: +49 [redacted]
Fax: +49 [redacted]
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Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme; Managing Board: Peter Loescher, Chairman, President and Chief Executive Officer; Heinrich Hiesinger, Joe Kaeser, Rudi Lamprecht, Eduardo Montes, Juergen Radomski, Erich R. Reinhardt, Hermann Requardt, Uriel J. Sharef, Peter Y. Solmssen, Klaus Wucherer; Registered offices: Berlin and Munich; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

Von: Alastair Richards - TEL [mailto:Alastair.Richards@tie.ltd.uk]
Gesendet: Freitag, 7. Dezember 2007 18:52
An: Brauns, Bernhard
Betreff: FW: Employer's Requirements - 3.03 (draft) - Maintenance Section
Wichtigkeit: Hoch

Bernhard,

following our meeting, I have updated the Maintenance section and attached it for your informal review. We are finalising the reissue of the consolidated ER's early next week and any feedback would be helpful.

Regards,

Alastair

From: Glen Aitken
Sent: Fri 12/7/2007 4:51 PM
To: Alastair Richards - TEL
Subject: Employer's Requirements - 3.03 (draft) - Maintenance Section

Alastair,

As requested, Please find attached the prospective (draft) 3.03 version of the Maintenance Section of the Employer's Requirements.

Have a great weekend.
With kind regards,

Glen

Glen Aitken
Engineering Project Administrator

tie limited
Citypoint
65 Haymarket Terrace
Edinburgh EH12 5HD

tel. +44 (0) [redacted]

email. Glen.Aitken@tie.ltd.uk
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tie Limited registered in Scotland No. SC230949. Registered office - City Chambers, High Street, Edinburgh, EH1 1YT.

Geoff Gilbert

From: Alastair Richards - TEL
Sent: 20 December 2007 18:23
To: Geoff Gilbert
Subject: FW: Employer's Requirements - 3.03 (draft) - Maintenance Section

As requested

From: Alastair Richards - TEL
Sent: Wed 12/12/2007 7:52 PM
To: Brauns, Bernhard
Cc: scott.mcfadzen@bilfinger.de; Brueckmann, Roland
Subject: RE: Employer's Requirements - 3.03 (draft) - Maintenance Section

Berhard,

thanks for this, I can see the comments, they seem to be mainly clustered in Table 92 Fault Corrective Requirements. Probably best if we discuss these specifically on the telephone tomorrow one by one to find a resolution. How would 10:30 your time suit you?

Regards,

Alastair

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With best regards,
Bernhard Brauns

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Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme; Managing Board: Peter Loescher, Chairman, President and Chief Executive Officer; Heinrich Hiesinger, Joe Kaeser, Rudi Lamprecht, Eduardo Montes, Juergen Radomski, Erich R. Reinhardt, Hermann Requardt, Uriel J. Sharef, Peter Y. Solmssen, Klaus Wucherer; Registered offices: Berlin and Munich; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

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Wichtigkeit: Hoch

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To: Alastair Richards - TEL
Subject: Employer's Requirements - 3.03 (draft) - Maintenance Section

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Have a great weekend.
With kind regards,

Glen

Glen Aitken
Engineering Project Administrator

tie limited
Citypoint
65 Haymarket Terrace
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APPENDIX B3

APPENDIX B3.

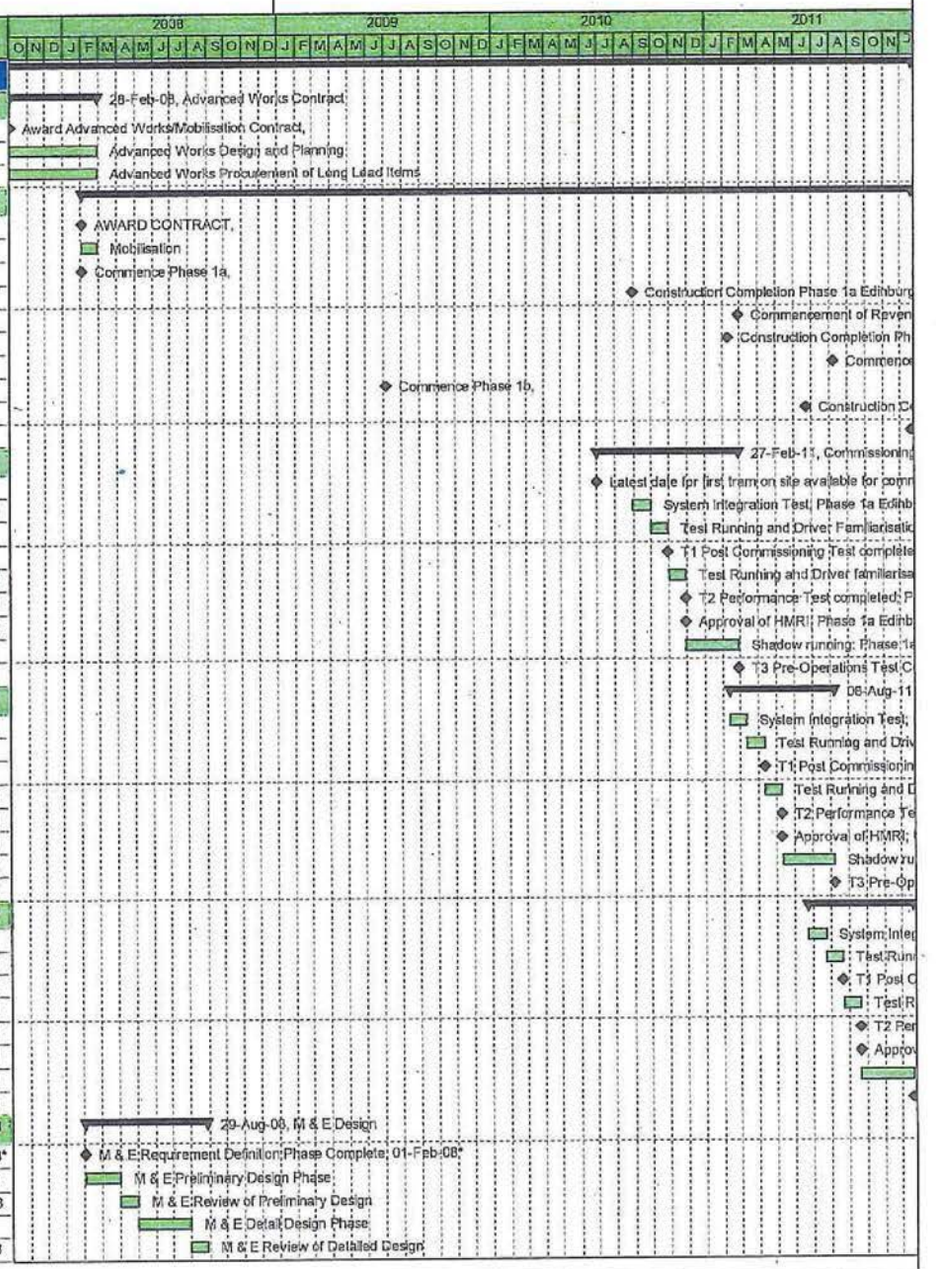
CEC02085660_0071

Edinburgh Tram Tender (updated 11 December 2007)

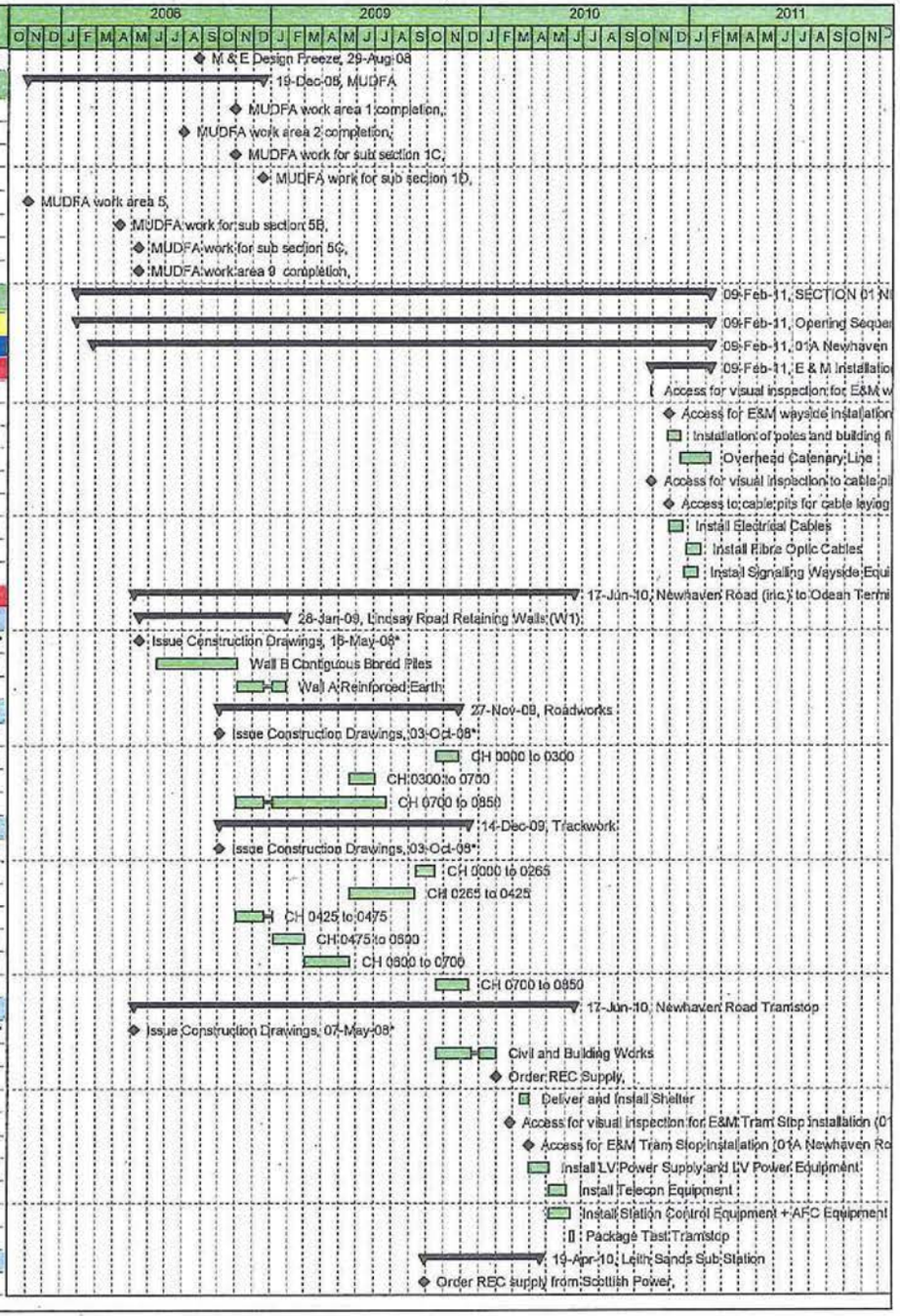
EDINBURGH TRAM

Bilfinger Berger Siemens Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish
Edinburgh Tram Tender (updated 11 December 2007)		1077	28-Sep-07	19-Dec-11
Advanced Works Contract		104	01-Oct-07	28-Feb-08
161	Award Advanced Works/Mobilisation Contract	0	01-Oct-07*	
161.1	Advanced Works Design and Planning	150	01-Oct-07*	28-Feb-08
161.2	Advanced Works Procurement of Long Lead Items	150	01-Oct-07*	28-Feb-08
Key Dates		992	01-Feb-08	19-Dec-11
170	AWARD CONTRACT	0	01-Feb-08*	
270	Mobilisation	20	01-Feb-08	28-Feb-08
280	Commence Phase 1a	0	01-Feb-08	
281	Construction Completion Phase 1a Edinburgh Airport to Haymarket	0		30-Aug-10
310	Commencement of Revenue Service Phase 1a Edinburgh Airport to Haymarket	0		27-Feb-11
311	Construction Completion Phase 1a Haymarket to Newhaven	0		09-Feb-11
312.8	Commencement of Revenue Service Phase 1a Haymarket to Newhaven	0		08-Aug-11
320	Commence Phase 1b	0	06-Jul-09*	
330	Construction Completion Phase 1b	0		22-Jun-11
350	Commencement of Revenue Service Phase 1b	0		19-Dec-11
Commissioning Phase 1a Edinburgh Airport to Haymarket		167	01-Jul-10	27-Feb-11
295	Latest date for first tram on site available for commissioning	0		01-Jul-10
300	System Integration Test; Phase 1a Edinburgh Airport to Haymarket	30	31-Aug-10	29-Sep-10
301	Test Running and Driver Familiarisation; Phase 1a Edinburgh Airport to Haymarket	30	30-Sep-10	29-Oct-10
302	T1 Post Commissioning Test completed; Phase 1a Edinburgh Airport to Haymarket	0		29-Oct-10
302.1	Test Running and Driver familiarisation performance ramp up 1a Airport to Haymar	30	30-Oct-10	29-Nov-10
302.2	T2 Performance Test completed; Phase 1a Edinburgh Airport to Haymarket	0		29-Nov-10
302.3	Approval of HMRI; Phase 1a Edinburgh Airport to Haymarket	0		29-Nov-10
302.4	Shadow running: Phase 1a Edinburgh Airport to Haymarket	90	29-Nov-10	27-Feb-11
302.5	T3 Pre-Operations Test Completed; Phase 1a Edinburgh Airport to Haymarket	0		27-Feb-11
Commissioning Phase 1a Haymarket to Newhaven		128	10-Feb-11	08-Aug-11
312	System Integration Test; Phase 1a Haymarket to Newhaven	30	10-Feb-11	11-Mar-11
312.1	Test Running and Driver Familiarisation; Phase 1a Haymarket to Newhaven	30	12-Mar-11	10-Apr-11
312.2	T1 Post Commissioning Test completed; Phase 1a Haymarket to Newhaven	0		10-Apr-11
312.3	Test Running and Driver familiarisation performance ramp up 1a Haymarket to Ne	30	11-Apr-11	10-May-11
312.4	T2 Performance Test completed; Phase 1a Haymarket to Newhaven	0		10-May-11
312.5	Approval of HMRI; Phase 1a Haymarket to Newhaven	0		10-May-11
312.6	Shadow running: Phase 1a Haymarket to Newhaven	90	11-May-11	08-Aug-11
312.7	T3 Pre-Operations Test Completed; Phase 1a Haymarket to Newhaven	0		08-Aug-11
Commissioning Phase 1b		128	23-Jun-11	19-Dec-11
340	System Integration Test; Phase 1b	30	23-Jun-11	22-Jul-11
340.1	Test Running and Driver Familiarisation; Phase 1b	30	23-Jul-11	21-Aug-11
340.2	T1 Post Commissioning Test completed; Phase 1b	0		21-Aug-11
340.3	Test Running and Driver familiarisation performance ramp up	30	22-Aug-11	20-Sep-11
340.4	T2 Performance Test completed; Phase 1b	0		20-Sep-11
340.5	Approval of HMRI; Phase 1b	0		20-Sep-11
340.6	Shadow running: Phase 1b	90	21-Sep-11	19-Dec-11
340.7	T3 Pre-Operations Test Completed; Phase 1b	0		19-Dec-11
M & E Design		148	01-Feb-08	29-Aug-08
740	M & E Requirement Definition Phase Complete	0		01-Feb-08*
750	M & E Preliminary Design Phase	60	01-Feb-08	01-Apr-08
760	M & E Review of Preliminary Design	30	01-Apr-08	01-May-08
770	M & E Detail Design Phase	90	01-May-08	30-Jul-08
780	M & E Review of Detailed Design	30	30-Jul-08	29-Aug-08



Activity ID	Activity Name	Original Duration	Start	Finish
790	M & E Design Freeze	0		29-Aug-08
MUDFA		285	05-Nov-07	19-Dec-08
180	MUDFA work area 1 completion	0	31-Oct-08*	
190	MUDFA work area 2 completion	0	01-Aug-08*	
200	MUDFA work for sub section 1C	0	31-Oct-08*	
210	MUDFA work for sub section 1D	0	19-Dec-08*	
220	MUDFA work area 5	0	05-Nov-07*	
230	MUDFA work for sub section 5B	0	11-Apr-08*	
240	MUDFA work for sub section 5C	0	16-May-08*	
260	MUDFA work area 9 completion	0	16-May-08*	
SECTION 01 NEWHAVEN ROAD TO HAYMARKET		772	28-Jan-08	09-Feb-11
Opening Sequence B (Haymarket to Newhaven Road)		772	28-Jan-08	09-Feb-11
01A Newhaven Road (inc.) to Foot of the Walk (exc.)		752	25-Feb-08	09-Feb-11
E & M Installations		72	28-Oct-10	09-Feb-11
A3883	Access for visual inspection for E&M wayside installation (01A)	1	28-Oct-10	29-Oct-10
A3884	Access for E&M wayside installation (01A)	0	29-Nov-10	
A3885	Installation of poles and building fixings	22	27-Nov-10	18-Dec-10
A3890	Overhead Catenary Line	53	19-Dec-10	09-Feb-11
A3898	Access for visual inspection to cable pits for cable laying (01A)	0	26-Oct-10	
A3899	Access to cable pits for cable laying (01A)	0	29-Nov-10	
A3900	Install Electrical Cables	25	29-Nov-10	23-Dec-10
A3910	Install Fibre Optic Cables	25	29-Dec-10	22-Jan-11
A3920	Install Signalling Wayside Equipment	25	24-Dec-10	17-Jan-11
Newhaven Road (inc.) to Ocean Terminal (exc.)		535	07-May-08	17-Jun-10
Lindsay Road Retaining Walls (W1)		176	16-May-08	28-Jan-09
12000	Issue Construction Drawings	0		16-May-08*
5	Wall B Contiguous Bored Piles	100	17-Jun-08	04-Nov-08
A1710	Wall A Reinforced Earth	50	05-Nov-08	28-Jan-09
Roadworks		291	03-Oct-08	27-Nov-09
11970	Issue Construction Drawings	0		03-Oct-08*
A1090	CH 0000 to 0300	30	19-Oct-09	27-Nov-09
A1100	CH 0300 to 0700	30	21-May-09	02-Jul-09
A1110	CH 0700 to 0850	175	03-Nov-08	23-Jul-09
Trackwork		302	03-Oct-08	14-Dec-09
11980	Issue Construction Drawings	0		03-Oct-08*
A1000	CH 0000 to 0265	25	14-Sep-09	16-Oct-09
A1010	CH 0265 to 0425	80	21-May-09	11-Sep-09
A1020	CH 0425 to 0475	35	03-Nov-08	05-Jan-09
A1030	CH 0475 to 0600	40	06-Jan-09	02-Mar-09
A1040	CH 0600 to 0700	55	03-Mar-09	20-May-09
A1050	CH 0700 to 0850	40	19-Oct-09	14-Dec-09
Newhaven Road Tramstop		535	07-May-08	17-Jun-10
11990	Issue Construction Drawings	0		07-May-08*
8	Civil and Building Works	65	19-Oct-09	01-Feb-10
98	Order REC Supply	0	01-Feb-10	
A1680	Deliver and Install Shelter	10	15-Mar-10	29-Mar-10
A4288	Access for visual inspection for E&M Tram Stop installation (01A Newhaven Road)	0	25-Feb-10	
A4289	Access for E&M Tram Stop installation (01A Newhaven Road)	0	29-Mar-10	
A4290	Install LV Power Supply and LV Power Equipment	25	29-Mar-10	05-May-10
A4300	Install Telecon Equipment	20	05-May-10	03-Jun-10
A4310	Install Station Control Equipment + AFC Equipment	25	05-May-10	10-Jun-10
A4315	Package Test Tramstop	5	10-Jun-10	17-Jun-10
Leith Sands Sub Station		142	28-Sep-09	19-Apr-10
36	Order REC supply from Scottish Power	0	28-Sep-09	



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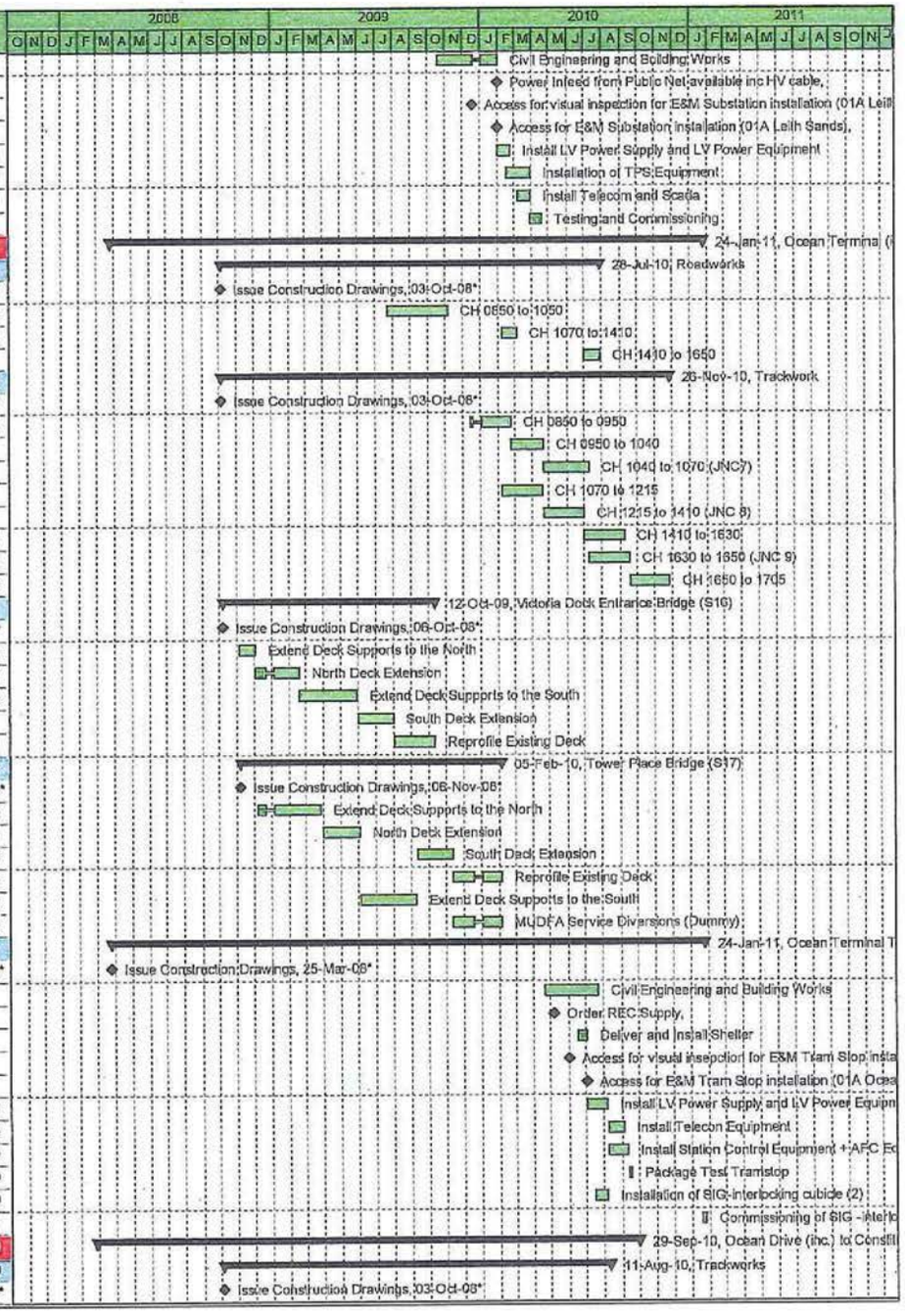
Activity ID	Activity Name	Original Duration	Start	Finish
6	Civil Engineering and Building Works	65	19-Oct-09	01-Feb-10
A5480	Power Infeed from Public Net available inc HV cable	0	02-Feb-10	
A5483	Access for visual inspection for E&M Substation installation (01A Leith Sands)	0	18-Dec-09	
A5484	Access for E&M Substation installation (01A Leith Sands)	0	02-Feb-10	
A5490	Install LV Power Supply and LV Power Equipment	15	02-Feb-10	22-Feb-10
A5500	Installation of TPS Equipment	30	16-Feb-10	29-Mar-10
A5510	Install Telecom and Scada	15	09-Mar-10	29-Mar-10
A5520	Testing and Commissioning	14	30-Mar-10	19-Apr-10
Ocean Terminal (inc.) to Ocean Drive (exc.)		719	25-Mar-08	24-Jan-11
Roadworks		460	03-Oct-08	28-Jul-10
12010	Issue Construction Drawings	0		03-Oct-08*
A1170	CH 0850 to 1050	75	24-Jul-09	06-Nov-09
A1180	CH 1070 to 1410	20	08-Feb-10	05-Mar-10
A1190	CH 1410 to 1650	20	01-Jul-10	28-Jul-10
Trackwork		544	03-Oct-08	26-Nov-10
12020	Issue Construction Drawings	0		03-Oct-08*
A1060	CH 0850 to 0950	40	15-Dec-09	22-Feb-10
A1070	CH 0950 to 1040	40	23-Feb-10	20-Apr-10
A1080	CH 1040 to 1070 (JNC7)	55	21-Apr-10	08-Jul-10
A1120	CH 1070 to 1215	50	08-Feb-10	19-Apr-10
A1130	CH 1215 to 1410 (JNC 8)	50	20-Apr-10	30-Jun-10
A1140	CH 1410 to 1630	50	01-Jul-10	09-Sep-10
A1150	CH 1630 to 1650 (JNC 9)	50	09-Jul-10	17-Sep-10
A1160	CH 1650 to 1705	50	20-Sep-10	26-Nov-10
Victoria Dock Entrance Bridge (S16)		258	06-Oct-08	12-Oct-09
12030	Issue Construction Drawings	0		06-Oct-08*
131	Extend Deck Supports to the North	20	04-Nov-08	02-Dec-08
171	North Deck Extension	45	03-Dec-08	17-Feb-09
181	Extend Deck Supports to the South	70	18-Feb-09	29-May-09
A1780	South Deck Extension	45	01-Jun-09	31-Jul-09
A1790	Reprofile Existing Deck	50	04-Aug-09	12-Oct-09
Tower Place Bridge (S17)		315	06-Nov-08	05-Feb-10
12040	Issue Construction Drawings	0		06-Nov-08*
A101	Extend Deck Supports to the North	70	08-Dec-08	27-Mar-09
A11	North Deck Extension	45	30-Mar-09	03-Jun-09
A1760	South Deck Extension	45	11-Sep-09	12-Nov-09
A1770	Reprofile Existing Deck	50	13-Nov-09	05-Feb-10
A31	Extend Deck Supports to the South	70	04-Jun-09	10-Sep-09
A32	MUDFA Service Diversions (Dummy)	50	13-Nov-09	05-Feb-10
Ocean Terminal Tram Stop		719	25-Mar-08	24-Jan-11
12050	Issue Construction Drawings	0		25-Mar-08*
14	Civil Engineering and Building Works	65	21-Apr-10	22-Jul-10
178	Order REC Supply	0	06-May-10	
A1720	Deliver and Install Shelter	10	18-Jun-10	01-Jul-10
A4318	Access for visual inspection for E&M Tram Stop installation (01A Ocean Terminal)	0	02-Jun-10	
A4319	Access for E&M Tram Stop installation (01A Ocean Terminal)	0	02-Jul-10	
A4320	Install LV Power Supply and LV Power Equipment	25	02-Jul-10	06-Aug-10
A4330	Install Telecon Equipment	20	09-Aug-10	03-Sep-10
A4340	Install Station Control Equipment + AFC Equipment	25	09-Aug-10	10-Sep-10
A4350	Package Test Tramstop	5	13-Sep-10	17-Sep-10
A6090	Installation of SIG-Interlocking cubicle (2)	15	16-Jul-10	06-Aug-10
A6100	Commissioning of SIG -Interlocking cubicle	5	18-Jan-11	24-Jan-11
Ocean Drive (inc.) to Constitution Street (exc.)		880	25-Feb-08	29-Sep-10
Trackworks		470	03-Oct-08	11-Aug-10
12060	Issue Construction Drawings	0		03-Oct-08*



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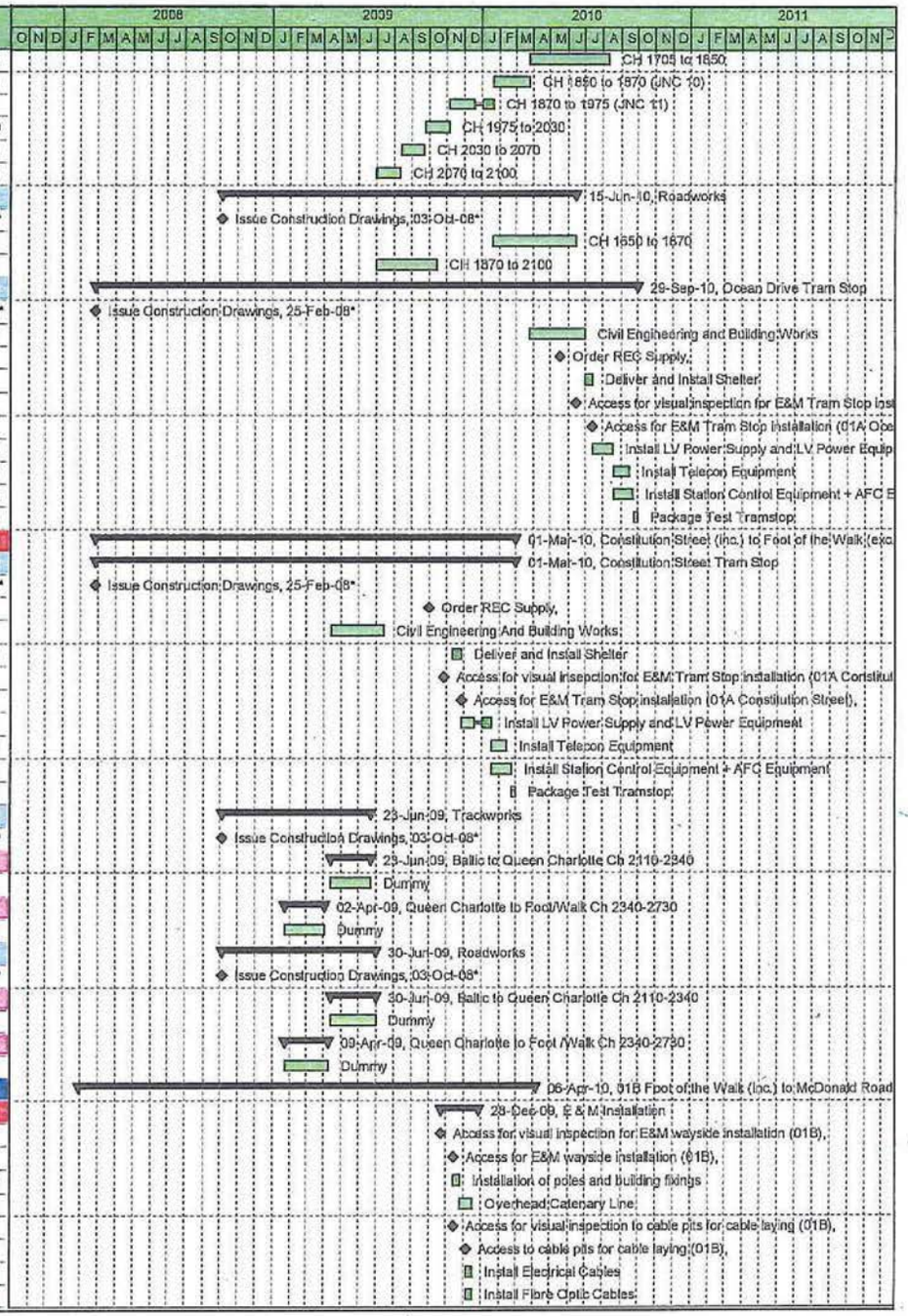
Activity ID	Activity Name	Original Duration	Start	Finish
A1200	CH 1705 to 1850	95	26-Mar-10	11-Aug-10
A1210	CH 1850 to 1870 (JNC 10)	45	22-Jan-10	25-Mar-10
A1220	CH 1870 to 1975 (JNC 11)	45	05-Nov-09	21-Jan-10
A1230	CH 1975 to 2030	30	24-Sep-09	04-Nov-09
A1240	CH 2030 to 2070	30	13-Aug-09	23-Sep-09
A1250	CH 2070 to 2100	30	01-Jul-09	12-Aug-09
Roadworks		430	03-Oct-08	15-Jun-10
12070	Issue Construction Drawings	0		03-Oct-08*
A1260	CH 1650 to 1870	100	22-Jan-10	15-Jun-10
A1270	CH 1870 to 2100	75	01-Jul-09	14-Oct-09
Ocean Drive Tram Stop		660	25-Feb-08	29-Sep-10
12060	Issue Construction Drawings	0		25-Feb-08*
17	Civil Engineering and Building Works	65	26-Mar-10	29-Jun-10
188	Order REC Supply	0	18-May-10	
A1800	Deliver and Install Shelter	10	30-Jun-10	13-Jul-10
A4358	Access for visual inspection for E&M Tram Stop installation (01A Ocean Drive)	0	14-Jun-10	
A4359	Access for E&M Tram Stop installation (01A Ocean Drive)	0	14-Jul-10	
A4360	Install LV Power Supply and LV Power Equipment	25	14-Jul-10	18-Aug-10
A4370	Install Telecon Equipment	20	19-Aug-10	15-Sep-10
A4380	Install Station Control Equipment + AFC Equipment	25	19-Aug-10	22-Sep-10
A4390	Package Test Tramstop	5	23-Sep-10	29-Sep-10
Constitution Street (inc.) to Foot of the Walk (exc.)		510	25-Feb-08	01-Mar-10
Constitution Street Tram Stop		510	25-Feb-08	01-Mar-10
12090	Issue Construction Drawings	0		25-Feb-08*
196	Order REC Supply	0	02-Oct-09	
20	Civil Engineering And Building Works	65	13-Apr-09	14-Jul-09
A1850	Deliver and Install Shelter	10	13-Nov-09	27-Nov-09
A4398	Access for visual insepction for E&M Tram Stop installation (01A Constitution Street	0	28-Oct-09	
A4399	Access for E&M Tram Stop installation (01A Constitution Street)	0	27-Nov-09	
A4400	Install LV Power Supply and LV Power Equipment	25	27-Nov-09	18-Jan-10
A4410	Install Telecon Equipment	20	18-Jan-10	15-Feb-10
A4420	Install Station Control Equipment + AFC Equipment	25	18-Jan-10	22-Feb-10
A4430	Package Test Tramstop	5	22-Feb-10	01-Mar-10
Trackworks		182	03-Oct-08	23-Jun-09
12100	Issue Construction Drawings	0		03-Oct-08*
~~Baltic to Queen Charlotte Ch 2110-2340~~		~~51~~	~~13-Apr-09~~	~~23-Jun-09~~
A13720	Dummy	50	13-Apr-09	23-Jun-09
~~Queen Charlotte to Foot/Walk Ch 2340-2730~~		~~50~~	~~23-Jan-09~~	~~02-Apr-09~~
A13730	Dummy	50	23-Jan-09	02-Apr-09
Roadworks		187	03-Oct-08	30-Jun-09
12110	Issue Construction Drawings	0		03-Oct-08*
~~Baltic to Queen Charlotte Ch 2110-2340~~		~~56~~	~~13-Apr-09~~	~~30-Jun-09~~
A13740	Dummy	55	13-Apr-09	30-Jun-09
~~Queen Charlotte to Foot /Walk Ch 2340-2730~~		~~55~~	~~23-Jan-09~~	~~09-Apr-09~~
A13750	Dummy	55	23-Jan-09	09-Apr-09
01B Foot of the Walk (inc.) to McDonald Road (exc.)		556	28-Jan-08	06-Apr-10
E & M Installation		43	24-Oct-09	28-Dec-09
A3763	Access for visual inspection for E&M wayside installation (01B)	0	24-Oct-09	
A3764	Access for E&M wayside installation (01B)	0	15-Nov-09	
A3765	Installation of poles and building fixings	10	15-Nov-09	24-Nov-09
A3770	Overhead Catenary Line	23	25-Nov-09	17-Dec-09
A3778	Access for visual inspection to cable pits for cable laying (01B)	0	13-Nov-09	
A3779	Access to cable pits for cable laying (01B)	0	05-Dec-09	
A3780	Install Electrical Cables	12	05-Dec-09	16-Dec-09
A3790	Install Fibre Optic Cables	12	05-Dec-09	16-Dec-09



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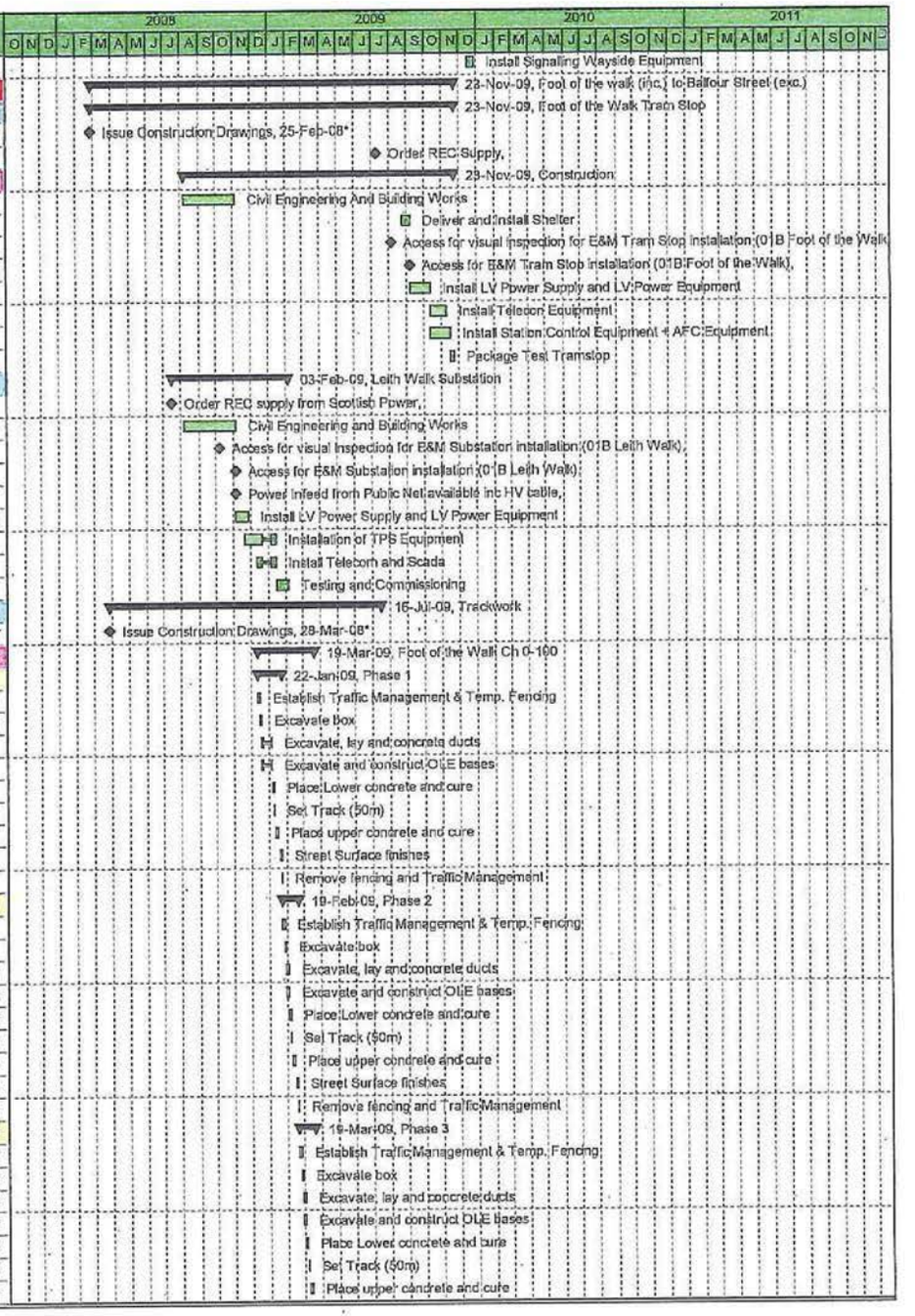
Activity ID	Activity Name	Original Duration	Start	Finish
A3800	Install Signaling Wayside Equipment	12	17-Dec-09	28-Dec-09
Foot of the walk (inc.) to Balfour Street (exc.)		444	25-Feb-08	23-Nov-09
Foot of the Walk Tram Stop		444	25-Feb-08	23-Nov-09
12120	Issue Construction Drawings	0		25-Feb-08*
528	Order REC Supply	0	10-Jul-09	
Construction		330	06-Aug-08	23-Nov-09
50	Civil Engineering And Building Works	65	06-Aug-08	04-Nov-08
A2560	Deliver and Install Shelter	10	24-Aug-09	07-Sep-09
A4438	Access for visual inspection for E&M Tram Stop installation (01B Foot of the Walk)	0	06-Aug-09	
A4439	Access for E&M Tram Stop installation (01B Foot of the Walk)	0	07-Sep-09	
A4440	Install LV Power Supply and LV Power Equipment	25	07-Sep-09	12-Oct-09
A4450	Install Telecon Equipment	20	12-Oct-09	09-Nov-09
A4460	Install Station Control Equipment + AFC Equipment	25	12-Oct-09	16-Nov-09
A4470	Package Test Tramstop	5	16-Nov-09	23-Nov-09
Leith Walk Substation		141	15-Jul-08	03-Feb-09
146	Order REC supply from Scottish Power	0	15-Jul-08	
176	Civil Engineering and Building Works	65	06-Aug-08	04-Nov-08
A2638	Access for visual inspection for E&M Substation installation (01B Leith Walk)	0	06-Oct-08	
A2639	Access for E&M Substation installation (01B Leith Walk)	0	05-Nov-08	
A5530	Power Infeed from Public Net available inc HV cable	0	05-Nov-08	
A5540	Install LV Power Supply and LV Power Equipment	15	05-Nov-08	25-Nov-08
A5550	Installation of TPS Equipment	30	19-Nov-08	14-Jan-09
A5560	Install Telecom and Scada	15	11-Dec-08	14-Jan-09
A5570	Testing and Commissioning	14	15-Jan-09	03-Feb-09
Trackwork		330	28-Mar-08	16-Jul-09
12130	Issue Construction Drawings	0		28-Mar-08*
Foot of the Walk Ch 0-100		68	12-Dec-08	19-Mar-09
Phase 1		28	12-Dec-08	22-Jan-09
A12450	Establish Traffic Management & Temp. Fencing	2	12-Dec-08	15-Dec-08
A12460	Excavate box	2	16-Dec-08	17-Dec-08
A12470	Excavate, lay and concrete ducts	3	18-Dec-08	05-Jan-09
A12480	Excavate and construct OLE bases	3	18-Dec-08	05-Jan-09
A12490	Place Lower concrete and cure	3	06-Jan-09	08-Jan-09
A12500	Set Track (50m)	1	09-Jan-09	09-Jan-09
A12510	Place upper concrete and cure	5	12-Jan-09	16-Jan-09
A12520	Street Surface finishes	3	19-Jan-09	21-Jan-09
A13510	Remove fencing and Traffic Management	1	22-Jan-09	22-Jan-09
Phase 2		20	23-Jan-09	19-Feb-09
A12530	Establish Traffic Management & Temp. Fencing	2	23-Jan-09	26-Jan-09
A12540	Excavate box	2	27-Jan-09	28-Jan-09
A12550	Excavate, lay and concrete ducts	3	29-Jan-09	02-Feb-09
A12560	Excavate and construct OLE bases	3	29-Jan-09	02-Feb-09
A12570	Place Lower concrete and cure	3	03-Feb-09	05-Feb-09
A12580	Set Track (50m)	1	06-Feb-09	06-Feb-09
A12590	Place upper concrete and cure	5	09-Feb-09	13-Feb-09
A12600	Street Surface finishes	3	16-Feb-09	18-Feb-09
A13500	Remove fencing and Traffic Management	1	19-Feb-09	19-Feb-09
Phase 3		20	20-Feb-09	19-Mar-09
A12610	Establish Traffic Management & Temp. Fencing	2	20-Feb-09	23-Feb-09
A12620	Excavate box	2	24-Feb-09	25-Feb-09
A12630	Excavate, lay and concrete ducts	3	26-Feb-09	02-Mar-09
A12640	Excavate and construct OLE bases	3	26-Feb-09	02-Mar-09
A12650	Place Lower concrete and cure	3	03-Mar-09	05-Mar-09
A12660	Set Track (50m)	1	06-Mar-09	06-Mar-09
A12670	Place upper concrete and cure	5	09-Mar-09	13-Mar-09



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Activity ID	Activity Name	Original Duration	Start	Finish
A12680	Street Surface finishes	3	16-Mar-09	18-Mar-09
A13490	Remove fencing and Traffic Management	1	19-Mar-09	19-Mar-09
Leith Walk Ch 100-350		43	20-Mar-09	19-May-09
1st half		22	20-Mar-09	20-Apr-09
A12690	Establish Traffic Management & Temp. Fencing	2	20-Mar-09	23-Mar-09
A12700	Excavate box	2	24-Mar-09	25-Mar-09
A12710	Excavate, lay and concrete ducts	3	26-Mar-09	30-Mar-09
A12720	Excavate and construct OLE bases	3	26-Mar-09	30-Mar-09
A12730	Place Lower concrete and cure	3	31-Mar-09	02-Apr-09
A12740	Set Track (250m)	3	03-Apr-09	07-Apr-09
A12750	Place upper concrete and cure	5	08-Apr-09	15-Apr-09
A12760	Street Surface finishes	3	16-Apr-09	20-Apr-09
2nd half		21	21-Apr-09	19-May-09
A13090	Excavate box	2	21-Apr-09	22-Apr-09
A13100	Excavate, lay and concrete ducts	3	23-Apr-09	27-Apr-09
A13110	Excavate and construct OLE bases	3	23-Apr-09	27-Apr-09
A13120	Place Lower concrete and cure	3	28-Apr-09	30-Apr-09
A13130	Set Track	3	01-May-09	06-May-09
A13140	Place upper concrete and cure	5	07-May-09	13-May-09
A13150	Street Surface finishes	3	14-May-09	18-May-09
A13160	Remove fencing and Traffic Management	1	19-May-09	19-May-09
Leith Walk Ch 350-600		40	20-May-09	16-Jul-09
1st half		21	20-May-09	18-Jun-09
A12770	Establish Traffic Management & Temp. Fencing	2	20-May-09	21-May-09
A12780	Excavate box	2	22-May-09	26-May-09
A12790	Excavate, lay and concrete ducts	3	27-May-09	29-May-09
A12800	Excavate and construct OLE bases	3	27-May-09	29-May-09
A12810	Place Lower concrete and cure	3	01-Jun-09	03-Jun-09
A12820	Set Track (250m)	3	04-Jun-09	08-Jun-09
A12830	Place upper concrete and cure	5	09-Jun-09	15-Jun-09
A12840	Street Surface finishes	3	16-Jun-09	18-Jun-09
2nd half		19	19-Jun-09	16-Jul-09
A13170	Excavate box	2	19-Jun-09	22-Jun-09
A13180	Excavate, lay and concrete ducts	3	23-Jun-09	25-Jun-09
A13190	Excavate and construct OLE bases	3	23-Jun-09	25-Jun-09
A13200	Place Lower concrete and cure	3	26-Jun-09	30-Jun-09
A13210	Set Track	3	01-Jul-09	03-Jul-09
A13220	Place upper concrete and cure	5	06-Jul-09	10-Jul-09
A13230	Street Surface finishes	3	13-Jul-09	15-Jul-09
A13240	Remove fencing and Traffic Management	1	16-Jul-09	16-Jul-09
Roadworks		179	28-Mar-08	11-Dec-08
12140	Issue Construction Drawings	0		28-Mar-08*
Foot of the Walk Ch 0-100		31	01-Aug-08	15-Sep-08
A12370	Establish Traffic Management & Temp. Fencing	2	01-Aug-08	05-Aug-08
A12380	Excavate for new channel and kerb line / remove existing kerbs	10	06-Aug-08	19-Aug-08
A12390	Construct Kerb lines	13	11-Aug-08	27-Aug-08
A12400	Reset Gullies	13	18-Aug-08	03-Sep-08
A12410	Surface new channel	6	04-Sep-08	11-Sep-08
A12420	Pavement Works	12	28-Aug-08	12-Sep-08
A12430	Street Lighting / Traffic Signals / Road Signs	7	28-Aug-08	05-Sep-08
A12440	Remove fencing and Traffic Management	1	15-Sep-08	15-Sep-08
Leith Walk Ch 350-100		31	16-Sep-08	28-Oct-08
A11970	Establish Traffic Management & Temp. Fencing	2	16-Sep-08	17-Sep-08
A11980	Excavate for new channel and kerb line / remove existing kerbs	10	18-Sep-08	01-Oct-08
A11990	Construct Kerb lines	13	23-Sep-08	09-Oct-08

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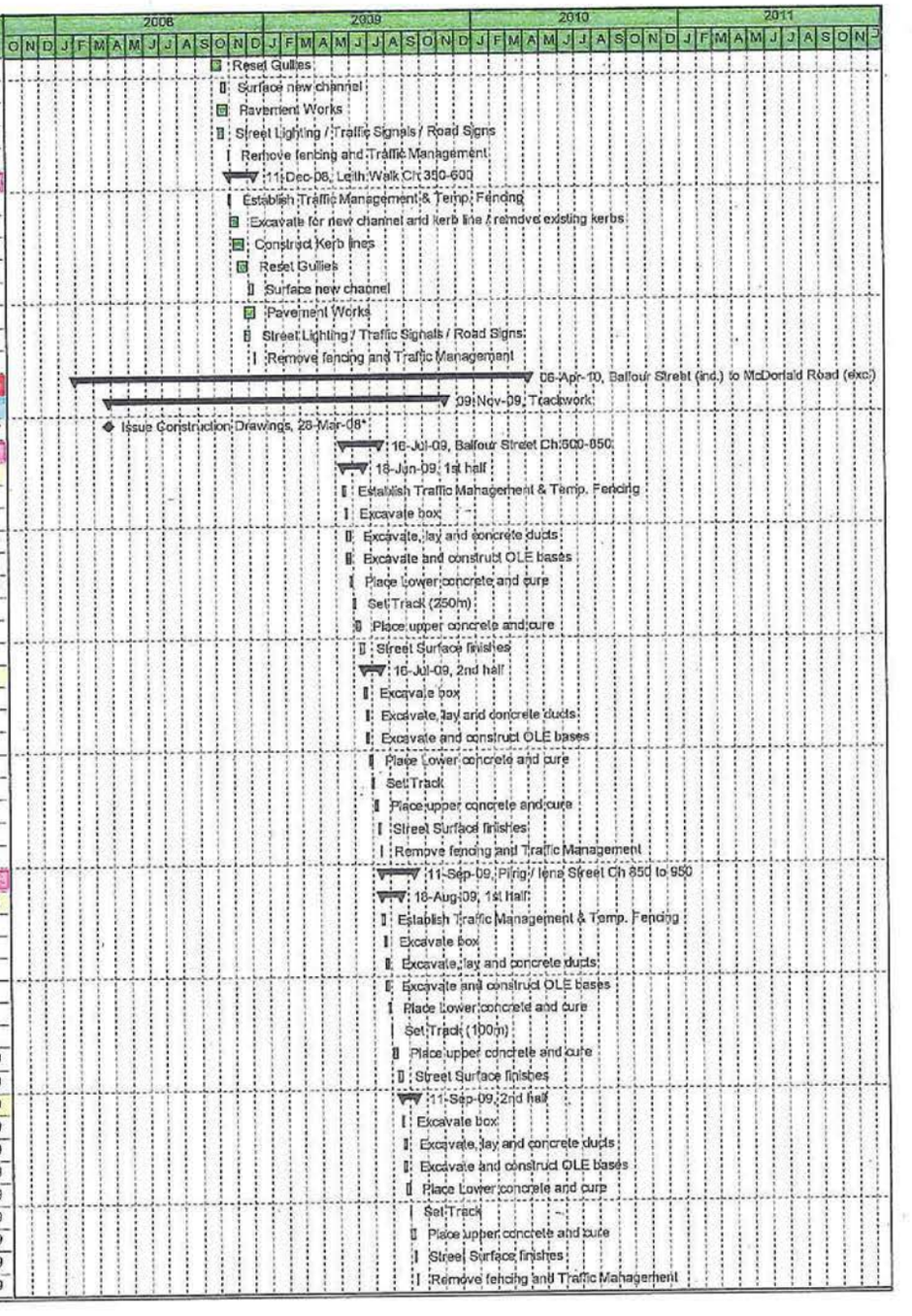
Activity ID	Activity Name	Original Duration	Start	Finish
A12000	Reset Gullies	13	30-Sep-08	16-Oct-08
A12010	Surface new channel	6	17-Oct-08	24-Oct-08
A12020	Pavement Works	12	10-Oct-08	27-Oct-08
A12030	Street Lighting / Traffic Signals / Road Signs	7	10-Oct-08	20-Oct-08
A12040	Remove fencing and Traffic Management	1	28-Oct-08	28-Oct-08
Leith Walk Ch 350-600		39	29-Oct-08	11-Dec-08
A12050	Establish Traffic Management & Temp. Fencing	2	29-Oct-08	30-Oct-08
A12060	Excavate for new channel and kerb line / remove existing kerbs	10	31-Oct-08	13-Nov-08
A12070	Construct Kerb lines	13	05-Nov-08	21-Nov-08
A12080	Reset Gullies	13	12-Nov-08	28-Nov-08
A12090	Surface new channel	6	02-Dec-08	09-Dec-08
A12100	Pavement Works	12	24-Nov-08	10-Dec-08
A12110	Street Lighting / Traffic Signals / Road Signs	7	24-Nov-08	03-Dec-08
A12120	Remove fencing and Traffic Management	1	11-Dec-08	11-Dec-08
Balfour Street (inc.) to McDonald Road (exc.)		556	28-Jan-08	06-Apr-10
Trackwork		411	28-Mar-08	09-Nov-09
12150	Issue Construction Drawings	0		28-Mar-08*
Balfour Street Ch 500-850		43	15-May-09	16-Jul-09
1st half		24	15-May-09	18-Jun-09
A12850	Establish Traffic Management & Temp. Fencing	2	15-May-09	18-May-09
A12860	Excavate box	2	19-May-09	20-May-09
A12870	Excavate, lay and concrete ducts	3	21-May-09	26-May-09
A12880	Excavate and construct OLE bases	3	21-May-09	26-May-09
A12890	Place Lower concrete and cure	3	27-May-09	29-May-09
A12900	Set Track (250m)	3	01-Jun-09	03-Jun-09
A12910	Place upper concrete and cure	5	04-Jun-09	10-Jun-09
A12920	Street Surface finishes	6	11-Jun-09	18-Jun-09
2nd half		19	19-Jun-09	16-Jul-09
A13250	Excavate box	2	19-Jun-09	22-Jun-09
A13260	Excavate, lay and concrete ducts	3	23-Jun-09	25-Jun-09
A13270	Excavate and construct OLE bases	3	23-Jun-09	25-Jun-09
A13280	Place Lower concrete and cure	3	26-Jun-09	30-Jun-09
A13290	Set Track	3	01-Jul-09	03-Jul-09
A13300	Place upper concrete and cure	5	06-Jul-09	10-Jul-09
A13310	Street Surface finishes	3	13-Jul-09	15-Jul-09
A13320	Remove fencing and Traffic Management	1	16-Jul-09	16-Jul-09
Pilrig / Iona Street Ch 850 to 950		46	17-Jul-09	11-Sep-09
1st half		23	17-Jul-09	18-Aug-09
A12930	Establish Traffic Management & Temp. Fencing	2	17-Jul-09	20-Jul-09
A12940	Excavate box	2	21-Jul-09	22-Jul-09
A12950	Excavate, lay and concrete ducts	3	23-Jul-09	27-Jul-09
A12960	Excavate and construct OLE bases	3	23-Jul-09	27-Jul-09
A12970	Place Lower concrete and cure	3	28-Jul-09	30-Jul-09
A12980	Set Track (100m)	1	31-Jul-09	31-Jul-09
A12990	Place upper concrete and cure	5	04-Aug-09	10-Aug-09
A13000	Street Surface finishes	6	11-Aug-09	18-Aug-09
2nd half		17	19-Aug-09	11-Sep-09
A13330	Excavate box	2	19-Aug-09	20-Aug-09
A13340	Excavate, lay and concrete ducts	3	21-Aug-09	25-Aug-09
A13350	Excavate and construct OLE bases	3	21-Aug-09	25-Aug-09
A13360	Place Lower concrete and cure	3	26-Aug-09	28-Aug-09
A13370	Set Track	1	31-Aug-09	31-Aug-09
A13380	Place upper concrete and cure	5	01-Sep-09	07-Sep-09
A13390	Street Surface finishes	3	08-Sep-09	10-Sep-09
A13400	Remove fencing and Traffic Management	1	11-Sep-09	11-Sep-09



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Activity ID	Activity Name	Original Duration	Start	Finish
	McDonald / Brunswick Road Ch 950-1250	41	14-Sep-09	09-Nov-09
	1st half	21	14-Sep-09	12-Oct-09
A13010	Establish Traffic Management & Temp. Fencing	2	14-Sep-09	15-Sep-09
A13020	Excavate box	2	16-Sep-09	17-Sep-09
A13030	Excavate, lay and concrete ducts	3	18-Sep-09	22-Sep-09
A13040	Excavate and construct OLE bases	3	18-Sep-09	22-Sep-09
A13050	Place Lower concrete and cure	3	23-Sep-09	25-Sep-09
A13060	Set Track (300m)	3	28-Sep-09	30-Sep-09
A13070	Place upper concrete and cure	5	01-Oct-09	07-Oct-09
A13080	Street Surface finishes	3	08-Oct-09	12-Oct-09
	2nd half	20	13-Oct-09	09-Nov-09
A13410	Excavate box	2	13-Oct-09	14-Oct-09
A13420	Excavate, lay and concrete ducts	3	15-Oct-09	19-Oct-09
A13430	Excavate and construct OLE bases	3	15-Oct-09	19-Oct-09
A13440	Place Lower concrete and cure	3	20-Oct-09	22-Oct-09
A13450	Set Track	3	23-Oct-09	27-Oct-09
A13460	Place upper concrete and cure	5	28-Oct-09	03-Nov-09
A13470	Street Surface finishes	3	04-Nov-09	06-Nov-09
A13480	Remove fencing and Traffic Management	1	09-Nov-09	09-Nov-09
Leith Walk Railway Bridge (S18)		0	16-Jul-09	16-Jul-09
26	Existing Structure	0		16-Jul-09
Roadworks		287	28-Mar-08	14-May-09
12160	Issue Construction Drawings	0		28-Mar-08*
	Balfour Street Ch 600-850	39	12-Dec-08	06-Feb-09
A12130	Establish Traffic Management & Temp. Fencing	2	12-Dec-08	15-Dec-08
A12140	Excavate for new channel and kerb line / remove existing kerbs	10	16-Dec-08	12-Jan-09
A12150	Construct Kerb lines	13	19-Dec-08	20-Jan-09
A12160	Reset Gullies	13	09-Jan-09	27-Jan-09
A12170	Surface new channel	6	28-Jan-09	04-Feb-09
A12180	Pavement Works	12	21-Jan-09	05-Feb-09
A12190	Street Lighting / Traffic Signals / Road Signs	7	21-Jan-09	29-Jan-09
A12200	Remove fencing and Traffic Management	1	06-Feb-09	06-Feb-09
	Pilrig / Iona Street Ch 850-950	31	09-Feb-09	23-Mar-09
A12210	Establish Traffic Management & Temp. Fencing	2	09-Feb-09	10-Feb-09
A12220	Excavate for new channel and kerb line / remove existing kerbs	10	11-Feb-09	24-Feb-09
A12230	Construct Kerb lines	13	16-Feb-09	04-Mar-09
A12240	Reset Gullies	13	23-Feb-09	11-Mar-09
A12250	Surface new channel	6	12-Mar-09	19-Mar-09
A12260	Pavement Works	12	05-Mar-09	20-Mar-09
A12270	Street Lighting / Traffic Signals / Road Signs	7	05-Mar-09	13-Mar-09
A12280	Remove fencing and Traffic Management	1	23-Mar-09	23-Mar-09
	McDonald / Brunswick Road Ch 950-1250	38	24-Mar-09	14-May-09
A12290	Establish Traffic Management & Temp. Fencing	2	24-Mar-09	25-Mar-09
A12300	Excavate for new channel and kerb line / remove existing kerbs	12	26-Mar-09	13-Apr-09
A12310	Construct Kerb lines	15	31-Mar-09	21-Apr-09
A12320	Reset Gullies	15	07-Apr-09	28-Apr-09
A12330	Surface new channel	9	29-Apr-09	12-May-09
A12340	Pavement Works	15	22-Apr-09	13-May-09
A12350	Street Lighting / Traffic Signals / Road Signs	7	22-Apr-09	30-Apr-09
A12360	Remove fencing and Traffic Management	1	14-May-09	14-May-09
Balfour Street Tram Stop		556	28-Jan-08	05-Apr-10
12170	Issue Construction Drawings	0		28-Jan-08*
538	Order REC Supply	0	06-Nov-09	
Construction		223	19-May-09	05-Apr-10
590	Civil Engineering And Building Works	65	19-May-09	19-Aug-09

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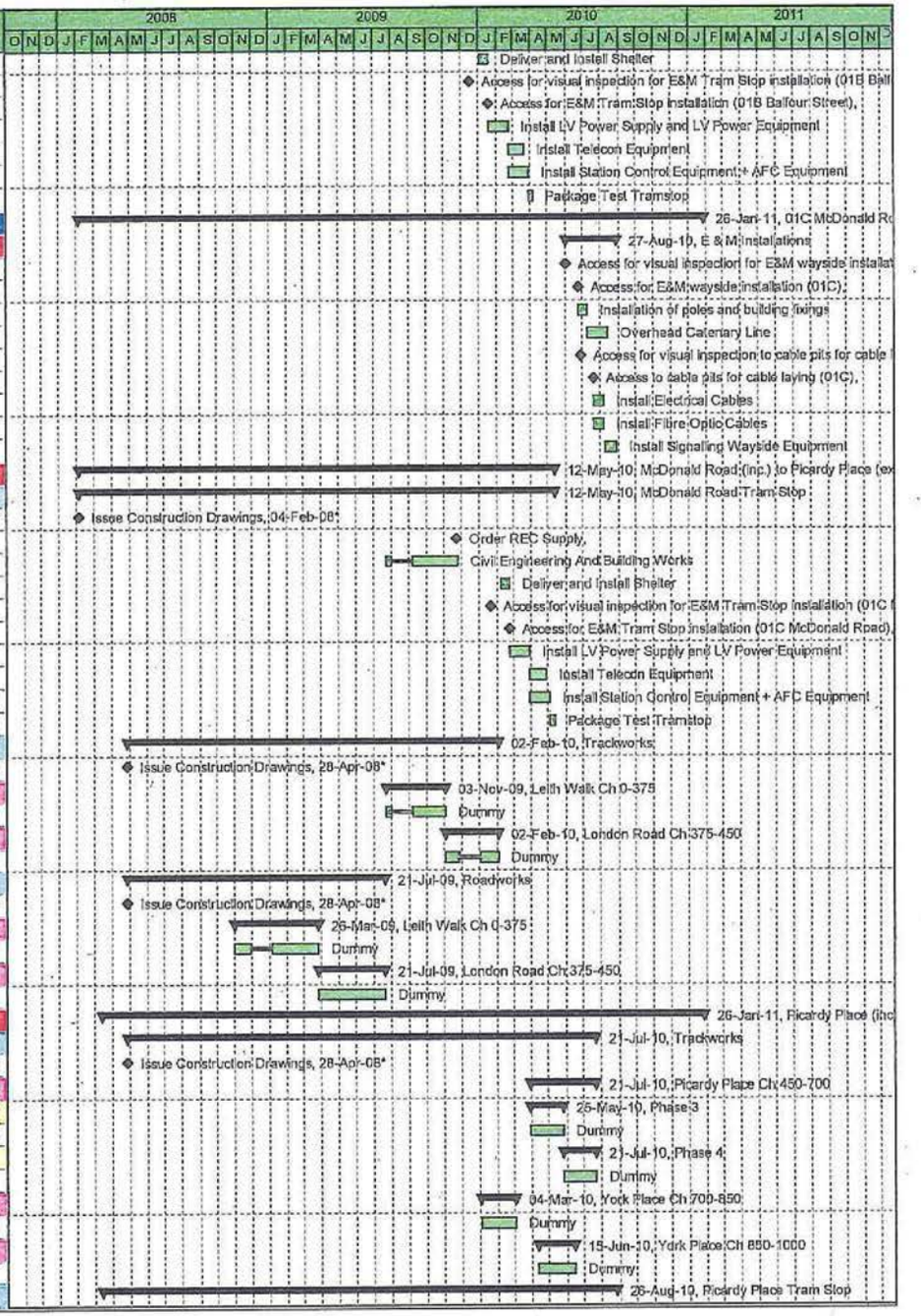
Activity ID	Activity Name	Original Duration	Start	Finish
A2600	Deliver and Install Shelter	10	04-Jan-10	18-Jan-10
A4478	Access for visual inspection for E&M Tram Stop installation (01B Balfour Street)	0	17-Dec-09	
A4479	Access for E&M Tram Stop installation (01B Balfour Street)	0	18-Jan-10	
A4480	Install LV Power Supply and LV Power Equipment	25	18-Jan-10	22-Feb-10
A4490	Install Telecon Equipment	20	22-Feb-10	22-Mar-10
A4500	Install Station Control Equipment + AFC Equipment	25	22-Feb-10	29-Mar-10
A4510	Package Test Tramstop	5	29-Mar-10	06-Apr-10
01C McDonald Road (inc.) to Princess Street West (exc.)		757	04-Feb-08	26-Jan-11
E & M Installations		62	02-Jun-10	27-Aug-10
A3843	Access for visual inspection for E&M wayside installation (01C)	0	02-Jun-10	
A3844	Access for E&M wayside installation (01C)	0	24-Jun-10	
A3845	Installation of poles and building fixings	15	24-Jun-10	08-Jul-10
A3850	Overhead Catenary Line	36	09-Jul-10	13-Aug-10
A3858	Access for visual inspection to cable pits for cable laying (01C)	0	27-Jun-10	
A3859	Access to cable pits for cable laying (01C)	0	19-Jul-10	
A3860	Install Electrical Cables	20	19-Jul-10	07-Aug-10
A3870	Install Fibre Optic Cables	20	19-Jul-10	07-Aug-10
A3880	Install Signaling Wayside Equipment	20	08-Aug-10	27-Aug-10
McDonald Road (inc.) to Picardy Place (exc.)		577	04-Feb-08	12-May-10
McDonald Road Tram Stop		577	04-Feb-08	12-May-10
12180	Issue Construction Drawings	0		04-Feb-08*
548	Order REC Supply	0	23-Nov-09	
600	Civil Engineering And Building Works	65	22-Jul-09	24-Nov-09
A2650	Deliver and Install Shelter	10	08-Feb-10	22-Feb-10
A2668	Access for visual inspection for E&M Tram Stop installation (01C McDonald Road)	0	21-Jan-10	
A2669	Access for E&M Tram Stop installation (01C McDonald Road)	0	22-Feb-10	
A2670	Install LV Power Supply and LV Power Equipment	25	22-Feb-10	29-Mar-10
A2673	Install Telecon Equipment	20	29-Mar-10	27-Apr-10
A2675	Install Station Control Equipment + AFC Equipment	25	29-Mar-10	05-May-10
A2680	Package Test Tramstop	5	05-May-10	12-May-10
Trackworks		447	28-Apr-08	02-Feb-10
12190	Issue Construction Drawings	0		28-Apr-08*
Leith Walk Ch 0-375		74	22-Jul-09	03-Nov-09
A13550	Dummy	50	22-Jul-09	03-Nov-09
London Road Ch 375-450		51	04-Nov-09	02-Feb-10
A13560	Dummy	40	04-Nov-09	02-Feb-10
Roadworks		312	28-Apr-08	21-Jul-09
12200	Issue Construction Drawings	0		28-Apr-08*
Leith Walk Ch 0-375		101	31-Oct-08	26-Mar-09
A13540	Dummy	80	31-Oct-08	26-Mar-09
London Road Ch 375-450		81	27-Mar-09	21-Jul-09
A13570	Dummy	80	27-Mar-09	21-Jul-09
Picardy Place (inc.) to St. Andrews Square (exc.)		728	14-Mar-08	26-Jan-11
Trackworks		566	28-Apr-08	21-Jul-10
12210	Issue Construction Drawings	0		28-Apr-08*
Picardy Place Ch 450-700		61	29-Mar-10	21-Jul-10
Phase 3		42	29-Mar-10	25-May-10
A13640	Dummy	40	29-Mar-10	25-May-10
Phase 4		39	26-May-10	21-Jul-10
A13650	Dummy	40	26-May-10	21-Jul-10
York Place Ch 700-850		44	04-Jan-10	04-Mar-10
A13660	Dummy	44	04-Jan-10	04-Mar-10
York Place Ch 850-1000		45	13-Apr-10	15-Jun-10
A13670	Dummy	44	13-Apr-10	15-Jun-10
Picardy Place Tram Stop		623	14-Mar-08	26-Aug-10



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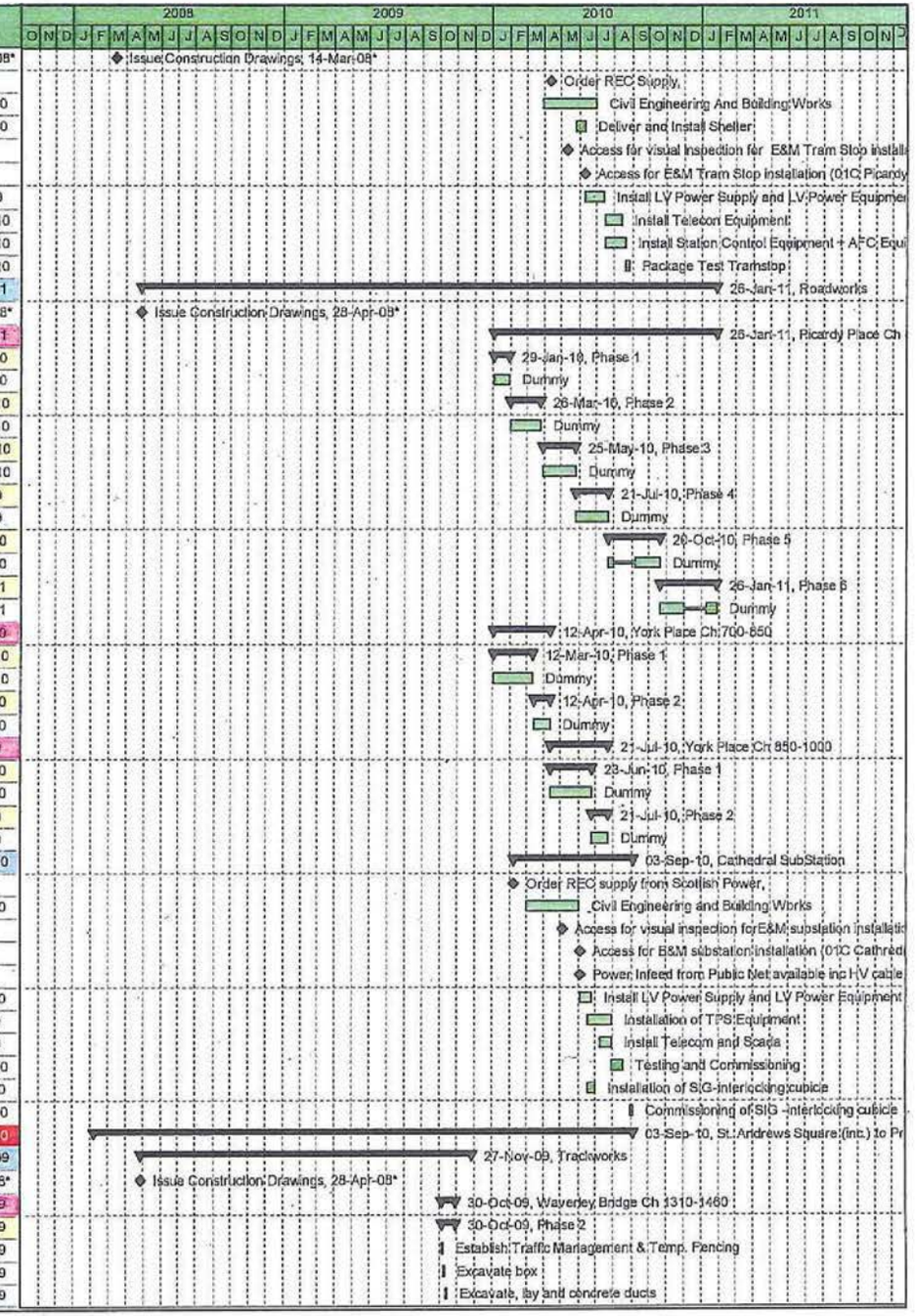
Activity ID	Activity Name	Original Duration	Start	Finish
12220	Issue Construction Drawings	0		14-Mar-08*
558	Order REC Supply	0	13-Apr-10	
610	Civil Engineering And Building Works	65	29-Mar-10	30-Jun-10
A2720	Deliver and Install Shelter	10	26-May-10	09-Jun-10
A4516	Access for visual inspection for E&M Tram Stop installation (01C Picardy Place)	0	11-May-10	
A4519	Access for E&M Tram Stop installation (01C Picardy Place)	0	10-Jun-10	
A4520	Install LV Power Supply and LV Power Equipment	25	10-Jun-10	14-Jul-10
A4530	Install Telecon Equipment	20	15-Jul-10	12-Aug-10
A4540	Install Station Control Equipment + AFC Equipment	25	15-Jul-10	19-Aug-10
A4550	Package Test Tramstop	5	20-Aug-10	26-Aug-10
Roadworks		697	28-Apr-08	26-Jan-11
12230	Issue Construction Drawings	0		28-Apr-08*
Picardy Place Ch 450-700		272	04-Jan-10	26-Jan-11
Phase 1		20	04-Jan-10	29-Jan-10
A13580	Dummy	20	04-Jan-10	29-Jan-10
Phase 2		40	01-Feb-10	26-Mar-10
A13590	Dummy	40	01-Feb-10	26-Mar-10
Phase 3		42	29-Mar-10	25-May-10
A13600	Dummy	40	29-Mar-10	25-May-10
Phase 4		39	26-May-10	21-Jul-10
A13610	Dummy	40	26-May-10	21-Jul-10
Phase 5		64	22-Jul-10	20-Oct-10
A13620	Dummy	40	22-Jul-10	20-Oct-10
Phase 6		67	21-Oct-10	26-Jan-11
A13630	Dummy	40	21-Oct-10	26-Jan-11
York Place Ch 700-850		71	04-Jan-10	12-Apr-10
Phase 1		50	04-Jan-10	12-Mar-10
A13680	Dummy	50	04-Jan-10	12-Mar-10
Phase 2		21	15-Mar-10	12-Apr-10
A13690	Dummy	20	15-Mar-10	12-Apr-10
York Place Ch 850-1000		79	13-Apr-10	21-Jul-10
Phase 1		51	13-Apr-10	23-Jun-10
A13700	Dummy	50	13-Apr-10	23-Jun-10
Phase 2		19	24-Jun-10	21-Jul-10
A13710	Dummy	20	24-Jun-10	21-Jul-10
Cathedral SubStation		148	08-Feb-10	03-Sep-10
346	Order REC supply from Scottish Power	0	08-Feb-10	
356	Civil Engineering and Building Works	65	01-Mar-10	02-Jun-10
A2838	Access for visual inspection forE&M substation installation (01C Cathredral)	0	04-May-10	
A2839	Access for E&M substation installation (01C Cathredral)	0	03-Jun-10	
A5580	Power Infeed from Public Net available inc HV cable	0	03-Jun-10	
A5590	Install LV Power Supply and LV Power Equipment	15	03-Jun-10	23-Jun-10
A5600	Installation of TPS Equipment	30	17-Jun-10	28-Jul-10
A5610	Install Telecom and Scada	15	08-Jul-10	28-Jul-10
A5620	Testing and Commissioning	14	29-Jul-10	18-Aug-10
A6120	Installation of SIG-interlocking cubicle	10	17-Jun-10	30-Jun-10
A6130	Commissioning of SIG -interlocking cubicle	5	30-Aug-10	03-Sep-10
St. Andrews Square (inc.) to Princes Street West (exc.)		655	08-Feb-08	03-Sep-10
Trackworks		402	28-Apr-08	27-Nov-09
12240	Issue Construction Drawings	0		28-Apr-08*
Waverley Bridge Ch 1310-1460		19	06-Oct-09	30-Oct-09
Phase 2		19	06-Oct-09	30-Oct-09
A11650	Establish Traffic Management & Temp. Fencing	2	06-Oct-09	07-Oct-09
A11660	Excavate box	2	08-Oct-09	09-Oct-09
A11670	Excavate, lay and concrete ducts	3	12-Oct-09	14-Oct-09



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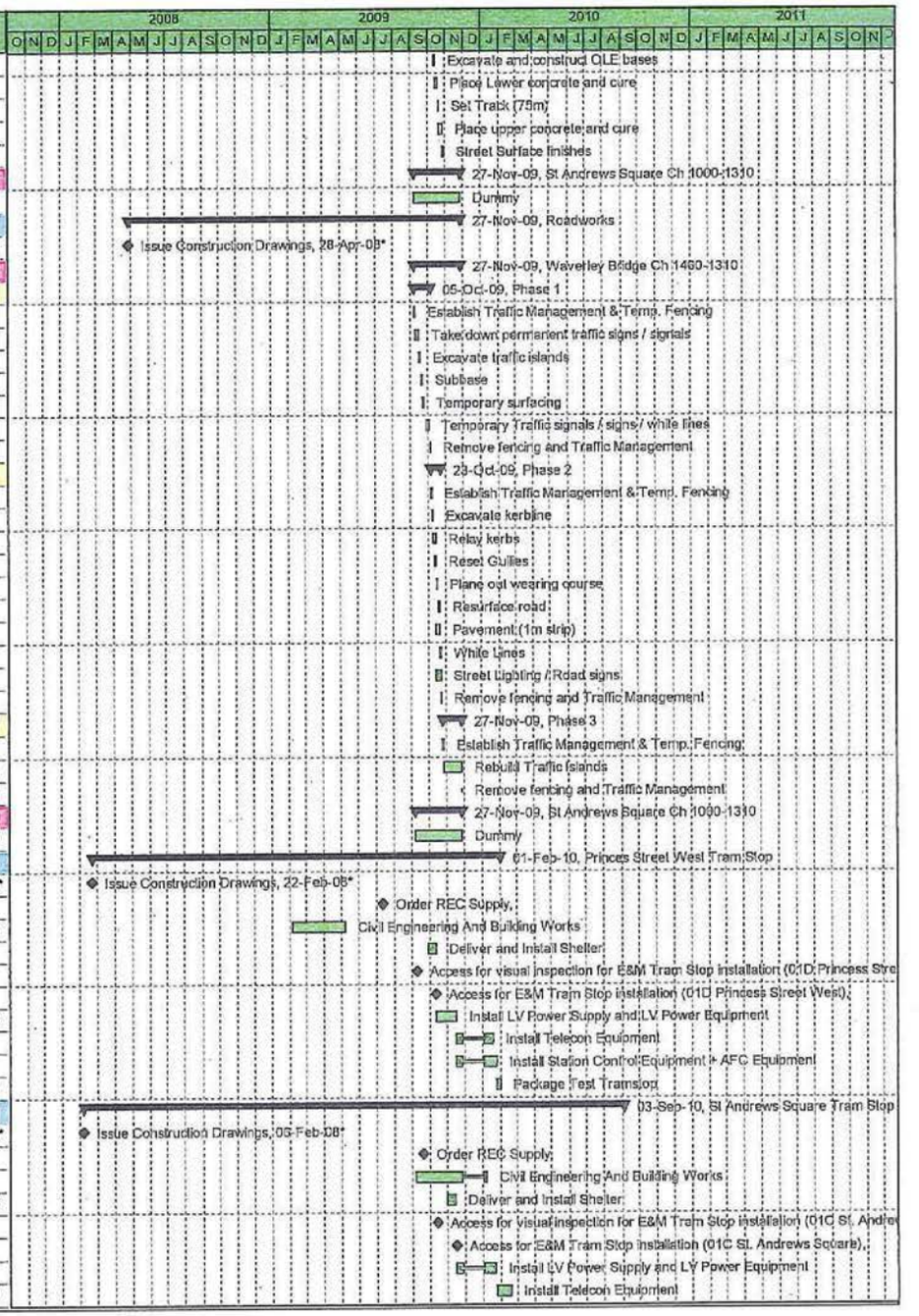
Activity ID	Activity Name	Original Duration	Start	Finish
A11680	Excavate and construct OLE bases	3	12-Oct-09	14-Oct-09
A11690	Place Lower concrete and cure	3	15-Oct-09	19-Oct-09
A11700	Set Track (75m)	1	20-Oct-09	20-Oct-09
A11710	Place upper concrete and cure	5	21-Oct-09	27-Oct-09
A11720	Street Surface finishes	3	28-Oct-09	30-Oct-09
St Andrews Square Ch 1000-1310		57	07-Sep-09	27-Nov-09
A13530	Dummy	60	07-Sep-09	27-Nov-09
Roadworks		402	28-Apr-08	27-Nov-09
12250	Issue Construction Drawings	0		28-Apr-08*
Waverley Bridge Ch 1460-1310		57	07-Sep-09	27-Nov-09
Phase 1		20	07-Sep-09	05-Oct-09
A10670	Establish Traffic Management & Temp. Fencing	2	07-Sep-09	08-Sep-09
A10680	Take down permanent traffic signs / signals	5	09-Sep-09	15-Sep-09
A10690	Excavate traffic islands	3	16-Sep-09	18-Sep-09
A10700	Subbase	2	21-Sep-09	22-Sep-09
A10710	Temporary surfacing	3	23-Sep-09	25-Sep-09
A10720	Temporary Traffic signals / signs / white lines	5	28-Sep-09	02-Oct-09
A10730	Remove fencing and Traffic Management	1	05-Oct-09	05-Oct-09
Phase 2		14	06-Oct-09	23-Oct-09
A10740	Establish Traffic Management & Temp. Fencing	2	06-Oct-09	07-Oct-09
A10750	Excavate kerbline	2	08-Oct-09	09-Oct-09
A10760	Relay kerbs	4	09-Oct-09	14-Oct-09
A10770	Reset Gullies	4	12-Oct-09	15-Oct-09
A10780	Plane out wearing course	1	16-Oct-09	16-Oct-09
A10790	Resurface road	3	19-Oct-09	21-Oct-09
A10800	Pavement (1m strip)	4	15-Oct-09	20-Oct-09
A10810	White Lines	1	22-Oct-09	22-Oct-09
A10820	Street Lighting / Road signs	6	15-Oct-09	22-Oct-09
A10830	Remove fencing and Traffic Management	1	23-Oct-09	23-Oct-09
Phase 3		23	26-Oct-09	27-Nov-09
A11140	Establish Traffic Management & Temp. Fencing	2	26-Oct-09	27-Oct-09
A11150	Rebuild Traffic Islands	22	28-Oct-09	26-Nov-09
A11160	Remove fencing and Traffic Management	1	27-Nov-09	27-Nov-09
St Andrews Square Ch 1000-1310		57	07-Sep-09	27-Nov-09
A13520	Dummy	60	07-Sep-09	27-Nov-09
Princes Street West Tram Stop		491	22-Feb-08	01-Feb-10
12290	Issue Construction Drawings	0		22-Feb-08*
578	Order REC Supply	0	13-Jul-09	
630	Civil Engineering And Building Works	65	05-Feb-09	08-May-09
A2780	Deliver and Install Shelter	10	28-Sep-09	12-Oct-09
A4598	Access for visual inspection for E&M Tram Stop installation (01D Princess Street W	0	10-Sep-09	
A4599	Access for E&M Tram Stop installation (01D Princess Street West)	0	12-Oct-09	
A4600	Install LV Power Supply and LV Power Equipment	25	12-Oct-09	16-Nov-09
A4610	Install Telecon Equipment	20	16-Nov-09	18-Jan-10
A4620	Install Station Control Equipment + AFC Equipment	25	16-Nov-09	25-Jan-10
A4630	Package Test Tramstop	5	25-Jan-10	01-Feb-10
St Andrews Square Tram Stop		656	06-Feb-08	03-Sep-10
12260	Issue Construction Drawings	0		06-Feb-08*
568	Order REC Supply	0	21-Sep-09	
620	Civil Engineering And Building Works	65	07-Sep-09	08-Jan-10
A2750	Deliver and Install Shelter	10	02-Nov-09	13-Nov-09
A4558	Access for visual inspection for E&M Tram Stop installation (01C St. Andrews Squa	0	15-Oct-09	
A4559	Access for E&M Tram Stop installation (01C St. Andrews Square)	0	16-Nov-09	
A4560	Install LV Power Supply and LV Power Equipment	25	16-Nov-09	22-Jan-10
A4570	Install Telecon Equipment	20	25-Jan-10	19-Feb-10



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Activity ID	Activity Name	Original Duration	Start	Finish
A4580	Install Station Control Equipment + AFC Equipment	25	25-Jan-10	26-Feb-10
A4590	Package Test Tramstop	5	01-Mar-10	05-Mar-10
A6150	Installation of SIG-interlocking cubicle	15	30-Nov-09	18-Dec-09
A6160	Commissioning of SIG -interlocking cubicle	5	30-Aug-10	03-Sep-10
01D Princes Street (inc.) to Haymarket (exc.)		630	29-Jan-08	22-Jul-10
E & M Installation		47	27-Apr-10	01-Jul-10
A3803	Access for visual inspection for E&M wayside installation (01D)	0	27-Apr-10	
A3804	Access for E&M wayside installation (01D)	0	19-May-10	
A3805	Installation of poles and building fixings	10	19-May-10	28-May-10
A3810	Overhead Catenary Line	24	29-May-10	21-Jun-10
A3818	Access for visual inspection to cable pits for cable laying (01D)	0	17-May-10	
A3819	Access to cable pits for cable laying (01D)	0	08-Jun-10	
A3820	Install Electrical Cables	12	08-Jun-10	19-Jun-10
A3830	Install Fibre Optic Cables	12	08-Jun-10	19-Jun-10
A3840	Install Signalling Wayside Equipment	12	20-Jun-10	01-Jul-10
Princes Street West (inc.) to Shadwick Place (exc.)		396	31-Mar-08	20-Oct-09
Roadworks		396	31-Mar-08	20-Oct-09
12270	Issue Construction Drawings	0		31-Mar-08*
Lothian Road Junction Ch 440-280		204	05-Jan-09	20-Oct-09
Phase 1		21	05-Jan-09	02-Feb-09
A8250	Establish Traffic Management & Temp. Fencing	2	05-Jan-09	06-Jan-09
A8260	Take down permanent traffic signs / signals	5	07-Jan-09	13-Jan-09
A8270	Excavate traffic islands	3	14-Jan-09	16-Jan-09
A8280	Subbase	2	19-Jan-09	20-Jan-09
A8290	Temporary surfacing	3	21-Jan-09	23-Jan-09
A8300	Temporary Traffic signals / signs / white lines	5	26-Jan-09	30-Jan-09
A8310	Remove fencing and Traffic Management	1	02-Feb-09	02-Feb-09
Phase 2		50	03-Feb-09	13-Apr-09
A8490	Establish Traffic Management & Temp. Fencing	2	03-Feb-09	04-Feb-09
A8500	Excavate North kerbline	2	05-Feb-09	06-Feb-09
A8510	Relay North kerbs	5	06-Feb-09	12-Feb-09
A8520	Reset Gullies	5	09-Feb-09	13-Feb-09
A8530	Plane out wearing course	2	16-Feb-09	17-Feb-09
A8540	Resurface road	3	06-Apr-09	08-Apr-09
A8550	Pavement (1m strip)	5	13-Feb-09	19-Feb-09
A8560	White Lines	1	09-Apr-09	09-Apr-09
A8570	Street Lighting / Road signs	7	13-Feb-09	23-Feb-09
A8670	Remove fencing and Traffic Management	1	13-Apr-09	13-Apr-09
Phase 3		14	14-Apr-09	01-May-09
A8580	Establish Traffic Management & Temp. Fencing	2	14-Apr-09	15-Apr-09
A8590	Excavate South kerbline	2	16-Apr-09	17-Apr-09
A8600	Relay South kerbs	4	17-Apr-09	22-Apr-09
A8610	Reset Gullies	4	20-Apr-09	23-Apr-09
A8620	Plane out wearing course	1	24-Apr-09	24-Apr-09
A8630	Resurface road	3	27-Apr-09	29-Apr-09
A8640	Pavement (1m strip)	4	23-Apr-09	28-Apr-09
A8650	White Lines	1	30-Apr-09	30-Apr-09
A8660	Street Lighting / Road signs	6	23-Apr-09	30-Apr-09
A8665	Remove fencing and Traffic Management	1	01-May-09	01-May-09
Phase 4a		57	31-Jul-09	20-Oct-09
A9000	Establish Traffic Management & Temp. Fencing	2	31-Jul-09	07-Sep-09
A9010	Excaval for new kerb lines & channel	4	08-Sep-09	11-Sep-09
A9020	Lay new kerbs	4	09-Sep-09	14-Sep-09
A9030	Reset Gullies	4	10-Sep-09	15-Sep-09
A9040	Surface new channels	4	16-Sep-09	21-Sep-09

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Activity ID	Activity Name	Original Duration	Start	Finish
A9050	Pavement	25	15-Sep-09	19-Oct-09
A9060	Rebuild Traffic Islands	15	22-Sep-09	12-Oct-09
A9080	Street Lighting / Road signs	5	06-Oct-09	12-Oct-09
A9130	Remove fencing and Traffic Management	1	20-Oct-09	20-Oct-09
Princes Street Ch 200-0,1980-1310		127	03-Feb-09	31-Jul-09
Phase 1		102	03-Feb-09	25-Jun-09
A13840	Establish Traffic Management & Temp. Fencing	2	03-Feb-09	04-Feb-09
A13850	Excavate North kerbline	19	05-Feb-09	03-Mar-09
A13860	Relay North kerbs	48	12-Feb-09	21-Apr-09
A13870	Reset Gullies	48	19-Feb-09	28-Apr-09
A13880	Plane out wearing course	10	29-Apr-09	13-May-09
A13890	Resurface road	7	15-Jun-09	23-Jun-09
A13900	Pavement (1m strip)	48	19-Feb-09	28-Apr-09
A13910	White Lines	1	24-Jun-09	24-Jun-09
A13920	Street Lighting / Road signs	5	22-Apr-09	28-Apr-09
A13930	Remove fencing and Traffic Management	1	25-Jun-09	25-Jun-09
Phase 2		127	03-Feb-09	31-Jul-09
A13940	Establish Traffic Management & Temp. Fencing	2	03-Feb-09	04-Feb-09
A13950	Excavate South kerbline	19	05-Feb-09	03-Mar-09
A13960	Relay South kerbs	48	12-Feb-09	21-Apr-09
A13970	Reset Gullies	48	19-Feb-09	28-Apr-09
A13980	Plane out wearing course	10	29-Apr-09	13-May-09
A13990	Resurface road	26	24-Jun-09	29-Jul-09
A14000	Pavement (1m strip)	48	19-Feb-09	28-Apr-09
A14010	White Lines	1	30-Jul-09	30-Jul-09
A14020	Street Lighting / Road signs	5	22-Apr-09	28-Apr-09
A14030	Remove fencing and Traffic Management	1	31-Jul-09	31-Jul-09
Trackworks (710m)		339	31-Mar-08	30-Jul-09
12280	Issue Construction Drawings	0		31-Mar-08*
Lothian Road Junction Ch 440-280		125	03-Feb-09	30-Jul-09
Phase 2		45	03-Feb-09	06-Apr-09
1st half		23	03-Feb-09	05-Mar-09
A8320	Establish Traffic Management & Temp. Fencing	2	03-Feb-09	04-Feb-09
A8330	Excavate box	3	05-Feb-09	09-Feb-09
A8340	Excavate, lay and concrete ducts	4	10-Feb-09	13-Feb-09
A8350	Excavate and construct OLE bases	4	10-Feb-09	13-Feb-09
A8360	Place Lower concrete and cure	3	16-Feb-09	18-Feb-09
A8370	Set Track (54m)	2	19-Feb-09	20-Feb-09
A8380	Place upper concrete and cure	5	23-Feb-09	27-Feb-09
A8390	Street Surface finishes	4	02-Mar-09	05-Mar-09
2nd half		22	09-Mar-09	06-Apr-09
A8410	Excavate box	3	09-Mar-09	10-Mar-09
A8420	Excavate, lay and concrete ducts	4	11-Mar-09	16-Mar-09
A8430	Excavate and construct OLE bases	4	11-Mar-09	16-Mar-09
A8440	Place Lower concrete and cure	3	17-Mar-09	19-Mar-09
A8450	Set Track	2	20-Mar-09	23-Mar-09
A8460	Place upper concrete and cure	5	24-Mar-09	30-Mar-09
A8470	Street Surface finishes	4	31-Mar-09	03-Apr-09
A8480	Remove fencing and Traffic Management	1	06-Apr-09	06-Apr-09
Phase 3a		31	05-May-09	17-Jun-09
1st half		16	05-May-09	27-May-09
A8680	Establish Traffic Management & Temp. Fencing	2	05-May-09	06-May-09
A8690	Excavate box	1	07-May-09	07-May-09
A8700	Excavate, lay and concrete ducts	2	08-May-09	11-May-09
A8710	Excavate and construct OLE bases	2	08-May-09	11-May-09

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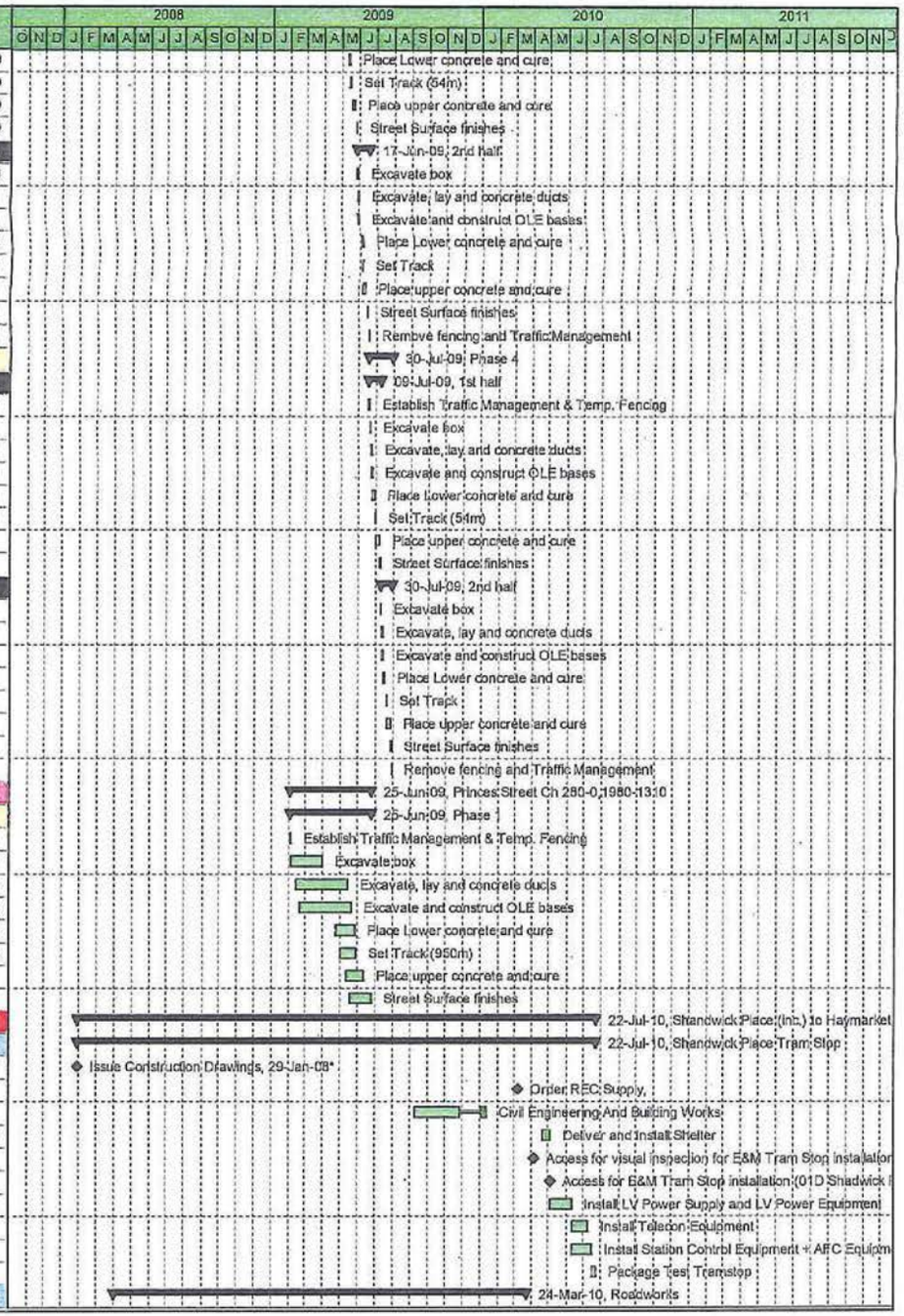
Activity ID	Activity Name	Original Duration	Start	Finish
A8720	Place Lower concrete and cure	3	12-May-09	14-May-09
A8730	Set Track (54m)	1	15-May-09	15-May-09
A8740	Place upper concrete and cure	5	18-May-09	22-May-09
A8750	Street Surface finishes	2	26-May-09	27-May-09
2nd half		15	26-May-09	17-Jun-09
A8760	Excavate box	1	26-May-09	26-May-09
A8770	Excavate, lay and concrete ducts	2	29-May-09	01-Jun-09
A8780	Excavate and construct OLE bases	2	29-May-09	01-Jun-09
A8790	Place Lower concrete and cure	3	02-Jun-09	04-Jun-09
A8800	Set Track	1	05-Jun-09	05-Jun-09
A8810	Place upper concrete and cure	5	08-Jun-09	12-Jun-09
A8820	Street Surface finishes	2	15-Jun-09	16-Jun-09
A8830	Remove fencing and Traffic Management	1	17-Jun-09	17-Jun-09
Phase 4		30	18-Jun-09	30-Jul-09
1st half		15	18-Jun-09	09-Jul-09
A8840	Establish Traffic Management & Temp. Fencing	2	18-Jun-09	19-Jun-09
A8850	Excavate box	1	22-Jun-09	22-Jun-09
A8860	Excavate, lay and concrete ducts	2	23-Jun-09	24-Jun-09
A8870	Excavate and construct OLE bases	2	23-Jun-09	24-Jun-09
A8880	Place Lower concrete and cure	3	25-Jun-09	29-Jun-09
A8890	Set Track (54m)	1	30-Jun-09	30-Jun-09
A8900	Place upper concrete and cure	5	01-Jul-09	07-Jul-09
A8910	Street Surface finishes	2	08-Jul-09	09-Jul-09
2nd half		15	10-Jul-09	30-Jul-09
A8920	Excavate box	1	10-Jul-09	10-Jul-09
A8930	Excavate, lay and concrete ducts	2	13-Jul-09	14-Jul-09
A8940	Excavate and construct OLE bases	2	13-Jul-09	14-Jul-09
A8950	Place Lower concrete and cure	3	15-Jul-09	17-Jul-09
A8960	Set Track	1	20-Jul-09	20-Jul-09
A8970	Place upper concrete and cure	5	21-Jul-09	27-Jul-09
A8980	Street Surface finishes	2	28-Jul-09	29-Jul-09
A8990	Remove fencing and Traffic Management	1	30-Jul-09	30-Jul-09
Princes Street Ch 280-0,1980-1310		102	03-Feb-09	25-Jun-09
Phase 1		102	03-Feb-09	25-Jun-09
A13760	Establish Traffic Management & Temp. Fencing	2	03-Feb-09	04-Feb-09
A13770	Excavate box	38	05-Feb-09	30-Mar-09
A13780	Excavate, lay and concrete ducts	64	12-Feb-09	14-May-09
A13790	Excavate and construct OLE bases	64	19-Feb-09	21-May-09
A13800	Place Lower concrete and cure	22	24-Apr-09	27-May-09
A13810	Set Track (950m)	19	01-May-09	29-May-09
A13820	Place upper concrete and cure	24	11-May-09	12-Jun-09
A13830	Street Surface finishes	28	18-May-09	25-Jun-09
Shandwick Place (inc.) to Haymarket (exc.)		630	29-Jan-08	22-Jul-10
Shandwick Place Tram Stop		630	29-Jan-08	22-Jul-10
12300	Issue Construction Drawings	0		29-Jan-08*
588	Order REC Supply	0	08-Mar-10	
640	Civil Engineering And Building Works	65	09-Sep-09	12-Jan-10
A2810	Deliver and Install Shelter	10	20-Apr-10	05-May-10
A4638	Access for visual inspection for E&M Tram Stop installation (01D Shadwick Place)	0	05-Apr-10	
A4639	Access for E&M Tram Stop installation (01D Shadwick Place)	0	05-May-10	
A4640	Install LV Power Supply and LV Power Equipment	25	05-May-10	10-Jun-10
A4650	Install Telecon Equipment	20	10-Jun-10	08-Jul-10
A4660	Install Station Control Equipment + AFC Equipment	25	10-Jun-10	15-Jul-10
A4670	Package Test Tramstop	5	15-Jul-10	22-Jul-10
Roadworks		503	31-Mar-08	24-Mar-10



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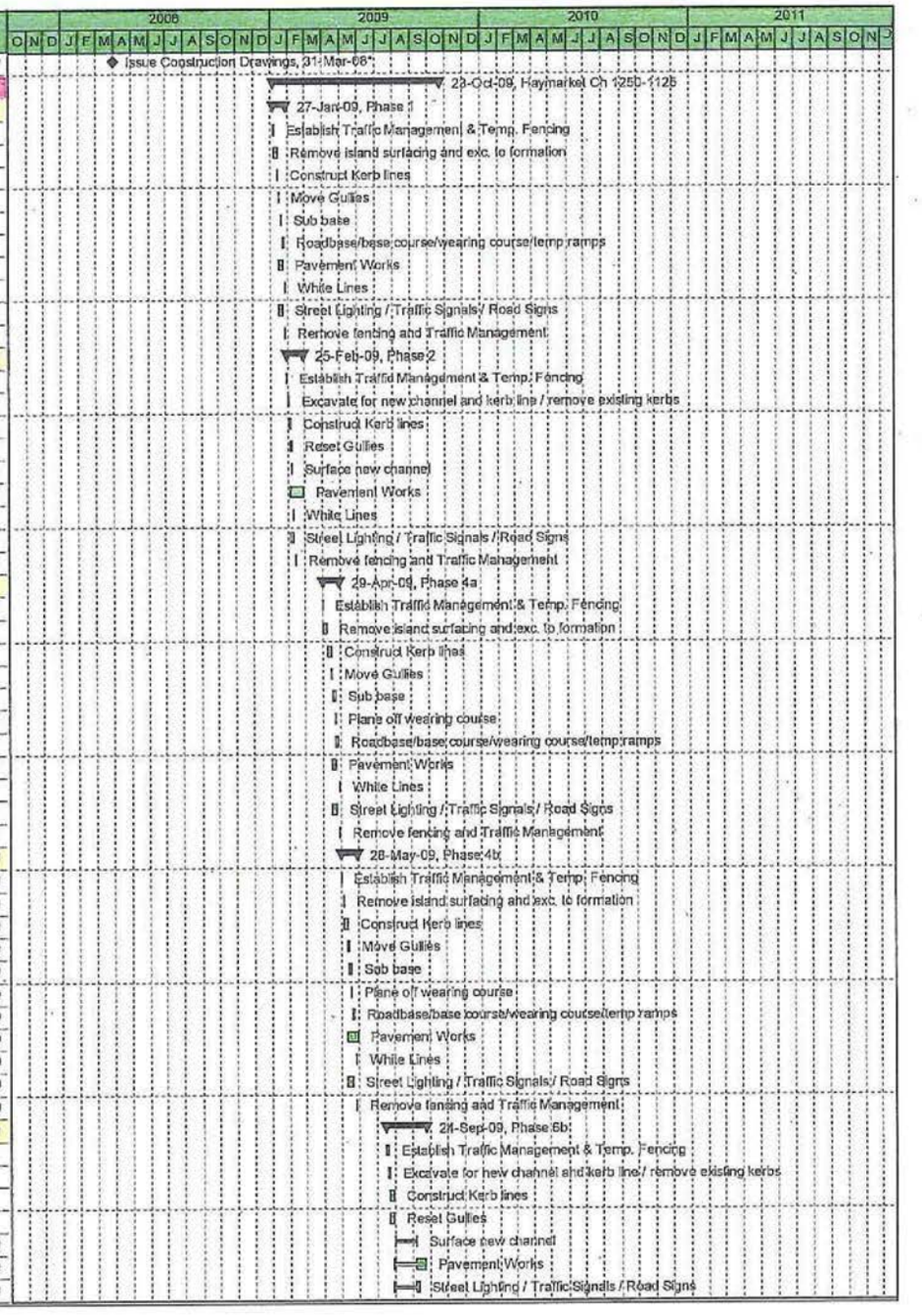
Activity ID	Activity Name	Original Duration	Start	Finish
12310	Issue Construction Drawings	0		31-Mar-08*
Haymarket Ch 1250-1125		207	05-Jan-09	23-Oct-09
Phase 1		17	05-Jan-09	27-Jan-09
A6390	Establish Traffic Management & Temp. Fencing	2	05-Jan-09	06-Jan-09
A6400	Remove island surfacing and exc. to formation	4	07-Jan-09	12-Jan-09
A6410	Construct Kerb lines	2	13-Jan-09	14-Jan-09
A6420	Move Gullies	2	15-Jan-09	16-Jan-09
A6430	Sub base	2	19-Jan-09	20-Jan-09
A6440	Roadbase/base course/wearing course/temp ramps	3	21-Jan-09	23-Jan-09
A6450	Pavement Works	5	15-Jan-09	21-Jan-09
A6460	White Lines	1	26-Jan-09	26-Jan-09
A6470	Street Lighting / Traffic Signals / Road Signs	5	15-Jan-09	21-Jan-09
A6475	Remove fencing and Traffic Management	1	27-Jan-09	27-Jan-09
Phase 2		21	28-Jan-09	25-Feb-09
A6480	Establish Traffic Management & Temp. Fencing	2	28-Jan-09	29-Jan-09
A6490	Excavate for new channel and kerb line / remove existing kerbs	2	30-Jan-09	02-Feb-09
A6500	Construct Kerb lines	2	03-Feb-09	04-Feb-09
A6510	Reset Gullies	1	05-Feb-09	05-Feb-09
A6520	Surface new channel	1	06-Feb-09	06-Feb-09
A6540	Pavement Works	15	05-Feb-09	25-Feb-09
A6550	White Lines	1	09-Feb-09	09-Feb-09
A6560	Street Lighting / Traffic Signals / Road Signs	3	05-Feb-09	09-Feb-09
A6565	Remove fencing and Traffic Management	1	12-Feb-09	12-Feb-09
Phase 4a		23	30-Mar-09	29-Apr-09
A6730	Establish Traffic Management & Temp. Fencing	2	30-Mar-09	31-Mar-09
A6740	Remove island surfacing and exc. to formation	5	01-Apr-09	07-Apr-09
A6750	Construct Kerb lines	4	08-Apr-09	14-Apr-09
A6760	Move Gullies	2	15-Apr-09	16-Apr-09
A6770	Sub base	3	17-Apr-09	21-Apr-09
A6775	Plane off wearing course	1	22-Apr-09	22-Apr-09
A6780	Roadbase/base course/wearing course/temp ramps	3	23-Apr-09	27-Apr-09
A6790	Pavement Works	6	15-Apr-09	22-Apr-09
A6800	White Lines	1	28-Apr-09	28-Apr-09
A6810	Street Lighting / Traffic Signals / Road Signs	7	15-Apr-09	23-Apr-09
A6815	Remove fencing and Traffic Management	1	29-Apr-09	29-Apr-09
Phase 4b		20	30-Apr-09	28-May-09
A6820	Establish Traffic Management & Temp. Fencing	2	30-Apr-09	01-May-09
A6830	Remove island surfacing and exc. to formation	1	05-May-09	05-May-09
A6840	Construct Kerb lines	4	06-May-09	11-May-09
A6850	Move Gullies	2	12-May-09	13-May-09
A6860	Sub base	3	14-May-09	18-May-09
A6870	Plane off wearing course	1	19-May-09	19-May-09
A6880	Roadbase/base course/wearing course/temp ramps	3	20-May-09	22-May-09
A6890	Pavement Works	12	12-May-09	28-May-09
A6900	White Lines	1	28-May-09	28-May-09
A6910	Street Lighting / Traffic Signals / Road Signs	7	12-May-09	20-May-09
A6915	Remove fencing and Traffic Management	1	27-May-09	27-May-09
Phase 6b		49	17-Jul-09	24-Sep-09
A7240	Establish Traffic Management & Temp. Fencing	2	17-Jul-09	20-Jul-09
A7250	Excavate for new channel and kerb line / remove existing kerbs	2	21-Jul-09	22-Jul-09
A7260	Construct Kerb lines	5	23-Jul-09	29-Jul-09
A7270	Reset Gullies	5	24-Jul-09	30-Jul-09
A7280	Surface new channel	2	31-Jul-09	07-Sep-09
A7290	Pavement Works	15	30-Jul-09	23-Sep-09
A7310	Street Lighting / Traffic Signals / Road Signs	7	30-Jul-09	11-Sep-09



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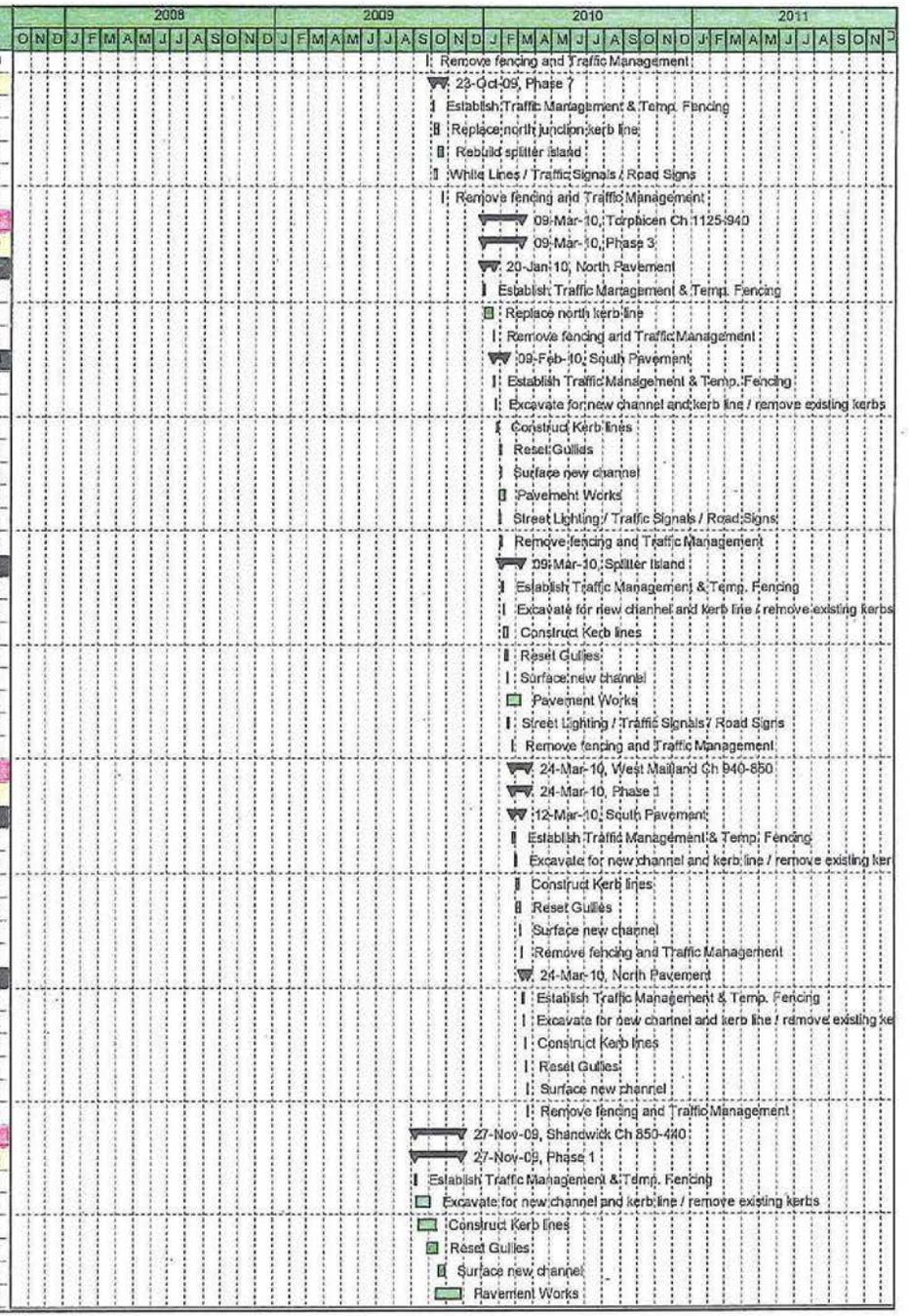
Activity ID	Activity Name	Original Duration	Start	Finish
A7315	Remove fencing and Traffic Management	1	24-Sep-09	24-Sep-09
Phase 7		15	05-Oct-09	23-Oct-09
A7320	Establish Traffic Management & Temp. Fencing	2	05-Oct-09	06-Oct-09
A7330	Replace north junction kerb line	6	07-Oct-09	14-Oct-09
A7340	Rebuild splitter island	6	15-Oct-09	22-Oct-09
A7350	White Lines / Traffic Signals / Road Signs	4	07-Oct-09	12-Oct-09
A7355	Remove fencing and Traffic Management	1	23-Oct-09	23-Oct-09
Torphicen Ch 1125-940		47	04-Jan-10	09-Mar-10
Phase 3		47	04-Jan-10	09-Mar-10
North Pavement		13	04-Jan-10	20-Jan-10
A7680	Establish Traffic Management & Temp. Fencing	2	04-Jan-10	05-Jan-10
A7690	Replace north kerb line	10	06-Jan-10	19-Jan-10
A7695	Remove fencing and Traffic Management	1	20-Jan-10	20-Jan-10
South Pavement		14	21-Jan-10	09-Feb-10
A7700	Establish Traffic Management & Temp. Fencing	2	21-Jan-10	22-Jan-10
A7710	Excavate for new channel and kerb line / remove existing kerbs	2	25-Jan-10	26-Jan-10
A7720	Construct Kerb lines	3	27-Jan-10	29-Jan-10
A7730	Reset Gullies	2	01-Feb-10	02-Feb-10
A7740	Surface new channel	1	03-Feb-10	03-Feb-10
A7750	Pavement Works	7	01-Feb-10	09-Feb-10
A7760	Street Lighting / Traffic Signals / Road Signs	3	01-Feb-10	03-Feb-10
A7765	Remove fencing and Traffic Management	1	04-Feb-10	04-Feb-10
Splitter Island		23	05-Feb-10	09-Mar-10
A7770	Establish Traffic Management & Temp. Fencing	2	05-Feb-10	08-Feb-10
A7780	Excavate for new channel and kerb line / remove existing kerbs	2	09-Feb-10	10-Feb-10
A7790	Construct Kerb lines	4	10-Feb-10	15-Feb-10
A7800	Reset Gullies	4	11-Feb-10	16-Feb-10
A7810	Surface new channel	1	17-Feb-10	17-Feb-10
A7820	Pavement Works	16	16-Feb-10	09-Mar-10
A7830	Street Lighting / Traffic Signals / Road Signs	3	16-Feb-10	18-Feb-10
A7835	Remove fencing and Traffic Management	1	25-Feb-10	25-Feb-10
West Maitland Ch 940-850		19	26-Feb-10	24-Mar-10
Phase 1		19	26-Feb-10	24-Mar-10
South Pavement		11	26-Feb-10	12-Mar-10
A7840	Establish Traffic Management & Temp. Fencing	2	26-Feb-10	01-Mar-10
A7850	Excavate for new channel and kerb line / remove existing kerbs	2	02-Mar-10	03-Mar-10
A7860	Construct Kerb lines	4	03-Mar-10	08-Mar-10
A7870	Reset Gullies	4	04-Mar-10	09-Mar-10
A7880	Surface new channel	2	10-Mar-10	11-Mar-10
A7885	Remove fencing and Traffic Management	1	12-Mar-10	12-Mar-10
North Pavement		8	15-Mar-10	24-Mar-10
A7890	Establish Traffic Management & Temp. Fencing	2	15-Mar-10	16-Mar-10
A7900	Excavate for new channel and kerb line / remove existing kerbs	1	17-Mar-10	17-Mar-10
A7910	Construct Kerb lines	2	18-Mar-10	19-Mar-10
A7920	Reset Gullies	1	22-Mar-10	22-Mar-10
A7930	Surface new channel	1	23-Mar-10	23-Mar-10
A7935	Remove fencing and Traffic Management	1	24-Mar-10	24-Mar-10
Shandwick Ch 850-440		57	07-Sep-09	27-Nov-09
Phase 1		57	07-Sep-09	27-Nov-09
A8180	Establish Traffic Management & Temp. Fencing	2	07-Sep-09	08-Sep-09
A8190	Excavate for new channel and kerb line / remove existing kerbs	18	09-Sep-09	02-Oct-09
A8200	Construct Kerb lines	23	14-Sep-09	14-Oct-09
A8210	Reset Gullies	15	28-Sep-09	16-Oct-09
A8220	Surface new channel	9	19-Oct-09	29-Oct-09
A8230	Pavement Works	31	15-Oct-09	26-Nov-09



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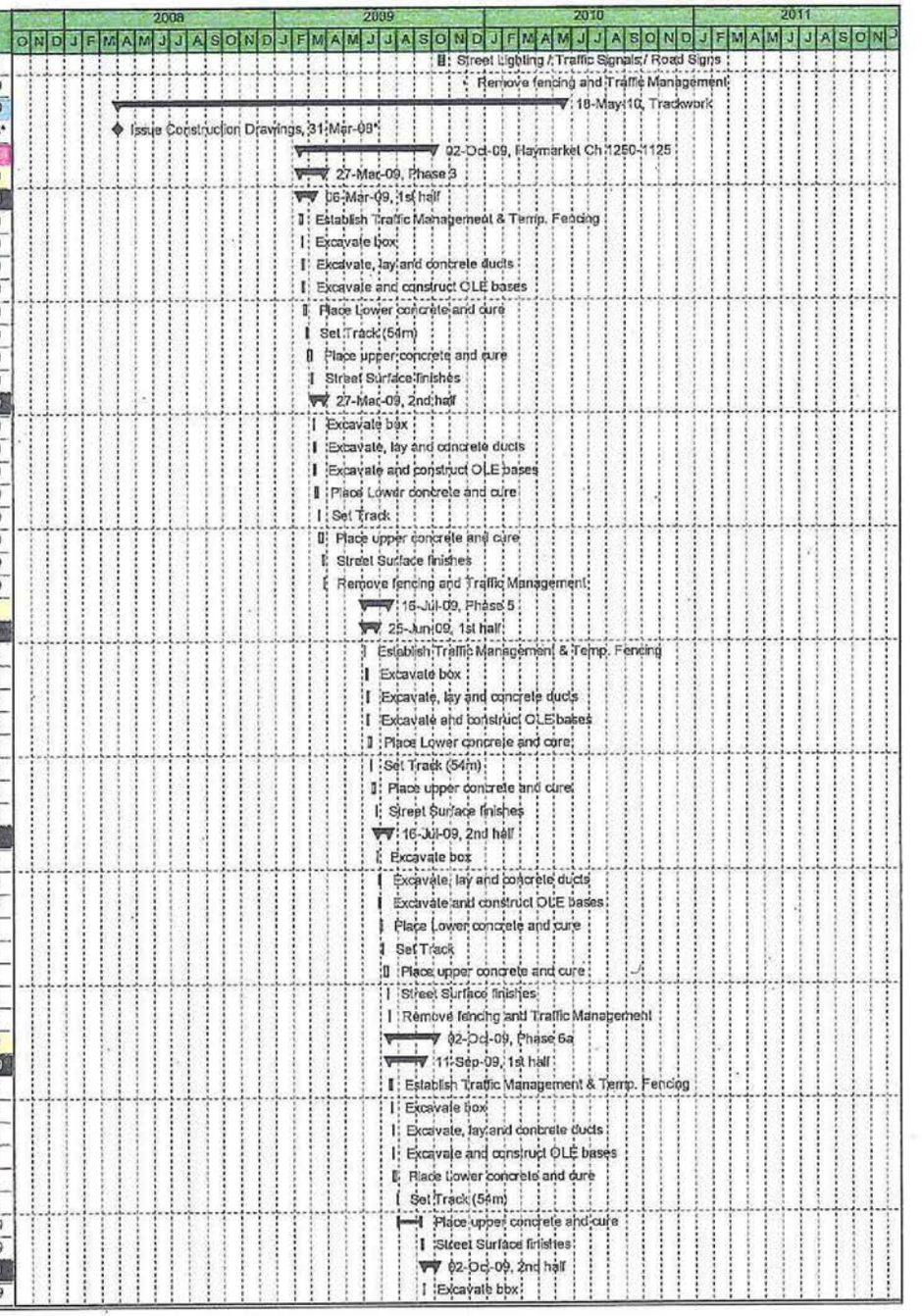
Activity ID	Activity Name	Original Duration	Start	Finish
A8240	Street Lighting / Traffic Signals / Road Signs	7	15-Oct-09	23-Oct-09
A8245	Remove fencing and Traffic Management	1	27-Nov-09	27-Nov-09
Trackwork		542	31-Mar-08	18-May-10
12320	Issue Construction Drawings	0		31-Mar-08*
Haymarket Ch 1250-1125		163	13-Feb-09	02-Oct-09
Phase 3		31	13-Feb-09	27-Mar-09
1st half		16	13-Feb-09	06-Mar-09
A6570	Establish Traffic Management & Temp. Fencing	2	13-Feb-09	16-Feb-09
A6580	Excavate box	1	17-Feb-09	17-Feb-09
A6590	Excavate, lay and concrete ducts	2	18-Feb-09	19-Feb-09
A6600	Excavate and construct OLE bases	2	18-Feb-09	19-Feb-09
A6610	Place Lower concrete and cure	3	20-Feb-09	24-Feb-09
A6620	Set Track (54m)	1	25-Feb-09	25-Feb-09
A6630	Place upper concrete and cure	5	26-Feb-09	04-Mar-09
A6640	Street Surface finishes	2	05-Mar-09	06-Mar-09
2nd half		15	09-Mar-09	27-Mar-09
A6650	Excavate box	1	09-Mar-09	09-Mar-09
A6660	Excavate, lay and concrete ducts	2	10-Mar-09	11-Mar-09
A6670	Excavate and construct OLE bases	2	10-Mar-09	11-Mar-09
A6680	Place Lower concrete and cure	3	12-Mar-09	16-Mar-09
A6690	Set Track	1	17-Mar-09	17-Mar-09
A6700	Place upper concrete and cure	5	18-Mar-09	24-Mar-09
A6710	Street Surface finishes	2	25-Mar-09	26-Mar-09
A6720	Remove fencing and Traffic Management	1	27-Mar-09	27-Mar-09
Phase 5		30	04-Jun-09	16-Jul-09
1st half		16	04-Jun-09	25-Jun-09
A6920	Establish Traffic Management & Temp. Fencing	2	04-Jun-09	05-Jun-09
A6940	Excavate box	1	08-Jun-09	08-Jun-09
A6950	Excavate, lay and concrete ducts	2	09-Jun-09	10-Jun-09
A6960	Excavate and construct OLE bases	2	09-Jun-09	10-Jun-09
A6970	Place Lower concrete and cure	3	11-Jun-09	15-Jun-09
A6980	Set Track (54m)	1	16-Jun-09	16-Jun-09
A6990	Place upper concrete and cure	5	17-Jun-09	23-Jun-09
A7000	Street Surface finishes	2	24-Jun-09	25-Jun-09
2nd half		14	26-Jun-09	16-Jul-09
A7010	Excavate box	1	26-Jun-09	26-Jun-09
A7020	Excavate, lay and concrete ducts	2	29-Jun-09	30-Jun-09
A7030	Excavate and construct OLE bases	2	29-Jun-09	30-Jun-09
A7040	Place Lower concrete and cure	3	01-Jul-09	03-Jul-09
A7050	Set Track	1	06-Jul-09	06-Jul-09
A7060	Place upper concrete and cure	5	07-Jul-09	13-Jul-09
A7070	Street Surface finishes	2	14-Jul-09	15-Jul-09
A7075	Remove fencing and Traffic Management	1	16-Jul-09	16-Jul-09
Phase 6a		55	17-Jul-09	02-Oct-09
1st half		40	17-Jul-09	11-Sep-09
A7080	Establish Traffic Management & Temp. Fencing	2	17-Jul-09	20-Jul-09
A7100	Excavate box	1	21-Jul-09	21-Jul-09
A7110	Excavate, lay and concrete ducts	2	22-Jul-09	23-Jul-09
A7120	Excavate and construct OLE bases	2	22-Jul-09	23-Jul-09
A7130	Place Lower concrete and cure	3	24-Jul-09	28-Jul-09
A7140	Set Track (54m)	1	29-Jul-09	29-Jul-09
A7150	Place upper concrete and cure	5	30-Jul-09	09-Sep-09
A7160	Street Surface finishes	2	10-Sep-09	11-Sep-09
2nd half		15	14-Sep-09	02-Oct-09
A7170	Excavate box	1	14-Sep-09	14-Sep-09



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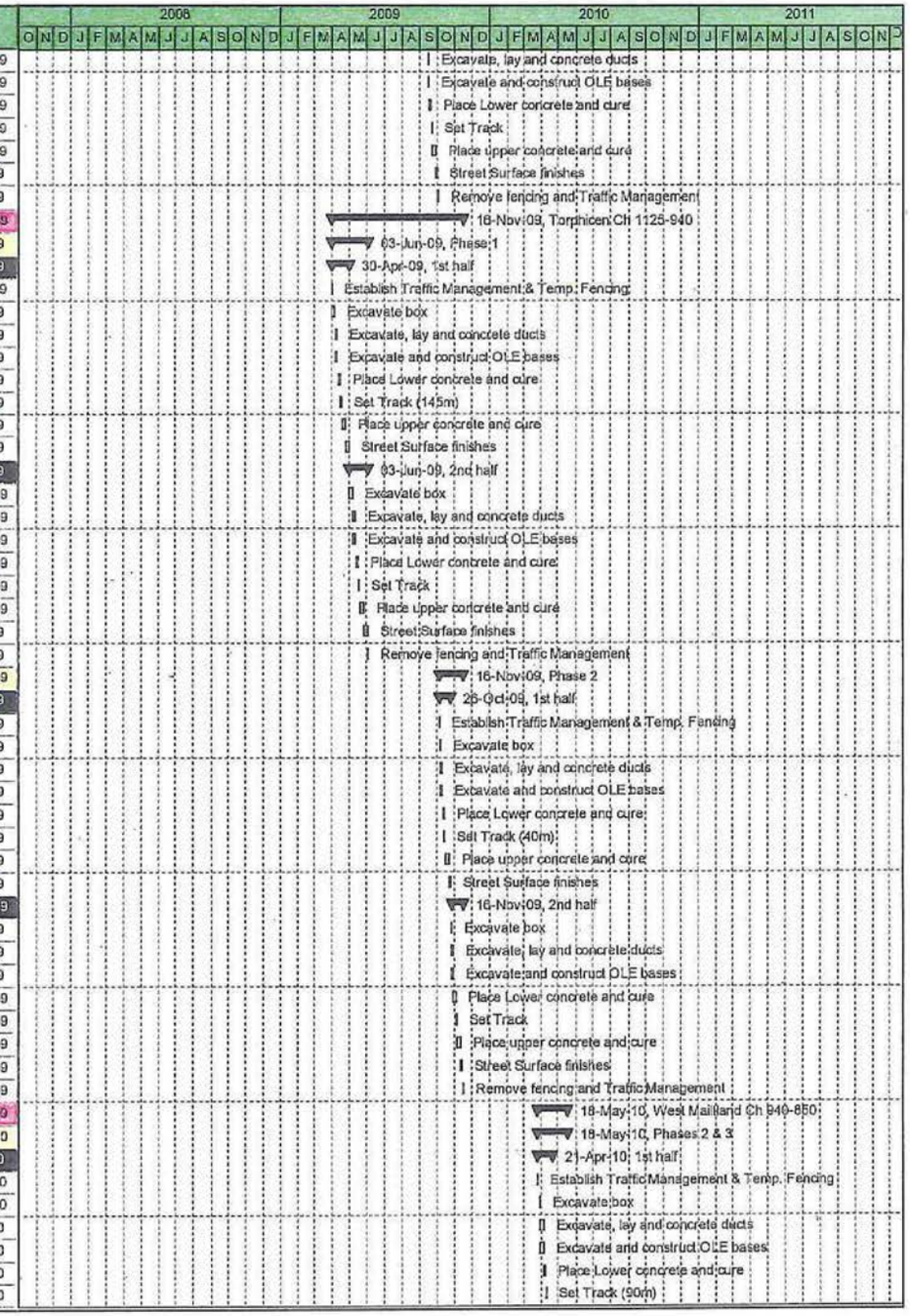
Activity ID	Activity Name	Original Duration	Start	Finish
A7180	Excavate, lay and concrete ducts	2	15-Sep-09	16-Sep-09
A7190	Excavate and construct OLE bases	2	15-Sep-09	16-Sep-09
A7200	Place Lower concrete and cure	3	17-Sep-09	21-Sep-09
A7210	Set Track	1	22-Sep-09	22-Sep-09
A7220	Place upper concrete and cure	5	23-Sep-09	29-Sep-09
A7230	Street Surface finishes	2	30-Sep-09	01-Oct-09
A7235	Remove fencing and Traffic Management	1	02-Oct-09	02-Oct-09
Torphicen Ch 1125-940		163	30-Mar-09	16-Nov-09
Phase 1		47	30-Mar-09	03-Jun-09
1st half		24	30-Mar-09	30-Apr-09
A7360	Establish Traffic Management & Temp. Fencing	2	30-Mar-09	31-Mar-09
A7380	Excavate box	3	01-Apr-09	03-Apr-09
A7390	Excavate, lay and concrete ducts	4	06-Apr-09	09-Apr-09
A7400	Excavate and construct OLE bases	4	06-Apr-09	09-Apr-09
A7410	Place Lower concrete and cure	3	13-Apr-09	15-Apr-09
A7420	Set Track (145m)	2	16-Apr-09	17-Apr-09
A7430	Place upper concrete and cure	5	20-Apr-09	24-Apr-09
A7440	Street Surface finishes	4	27-Apr-09	30-Apr-09
2nd half		23	01-May-09	03-Jun-09
A7450	Excavate box	3	01-May-09	06-May-09
A7460	Excavate, lay and concrete ducts	4	07-May-09	12-May-09
A7470	Excavate and construct OLE bases	4	07-May-09	12-May-09
A7480	Place Lower concrete and cure	3	13-May-09	15-May-09
A7490	Set Track	2	18-May-09	19-May-09
A7500	Place upper concrete and cure	5	20-May-09	27-May-09
A7510	Street Surface finishes	4	28-May-09	02-Jun-09
A7515	Remove fencing and Traffic Management	1	03-Jun-09	03-Jun-09
Phase 2		31	05-Oct-09	16-Nov-09
1st half		16	05-Oct-09	26-Oct-09
A7520	Establish Traffic Management & Temp. Fencing	2	05-Oct-09	06-Oct-09
A7540	Excavate box	1	07-Oct-09	07-Oct-09
A7550	Excavate, lay and concrete ducts	2	08-Oct-09	09-Oct-09
A7560	Excavate and construct OLE bases	2	08-Oct-09	09-Oct-09
A7570	Place Lower concrete and cure	3	12-Oct-09	14-Oct-09
A7580	Set Track (40m)	1	15-Oct-09	15-Oct-09
A7590	Place upper concrete and cure	5	16-Oct-09	22-Oct-09
A7600	Street Surface finishes	2	23-Oct-09	26-Oct-09
2nd half		15	27-Oct-09	16-Nov-09
A7610	Excavate box	1	27-Oct-09	27-Oct-09
A7620	Excavate, lay and concrete ducts	2	28-Oct-09	29-Oct-09
A7630	Excavate and construct OLE bases	2	28-Oct-09	29-Oct-09
A7640	Place Lower concrete and cure	3	30-Oct-09	03-Nov-09
A7650	Set Track	1	04-Nov-09	04-Nov-09
A7660	Place upper concrete and cure	5	05-Nov-09	11-Nov-09
A7670	Street Surface finishes	2	12-Nov-09	13-Nov-09
A7675	Remove fencing and Traffic Management	1	16-Nov-09	16-Nov-09
West Maitland Ch 940-850		39	25-Mar-10	18-May-10
Phases 2 & 3		39	25-Mar-10	18-May-10
1st half		20	25-Mar-10	21-Apr-10
A7940	Establish Traffic Management & Temp. Fencing	2	25-Mar-10	26-Mar-10
A7960	Excavate box	2	29-Mar-10	30-Mar-10
A7970	Excavate, lay and concrete ducts	3	31-Mar-10	05-Apr-10
A7980	Excavate and construct OLE bases	3	31-Mar-10	05-Apr-10
A7990	Place Lower concrete and cure	3	06-Apr-10	08-Apr-10
A8000	Set Track (90m)	1	09-Apr-10	09-Apr-10



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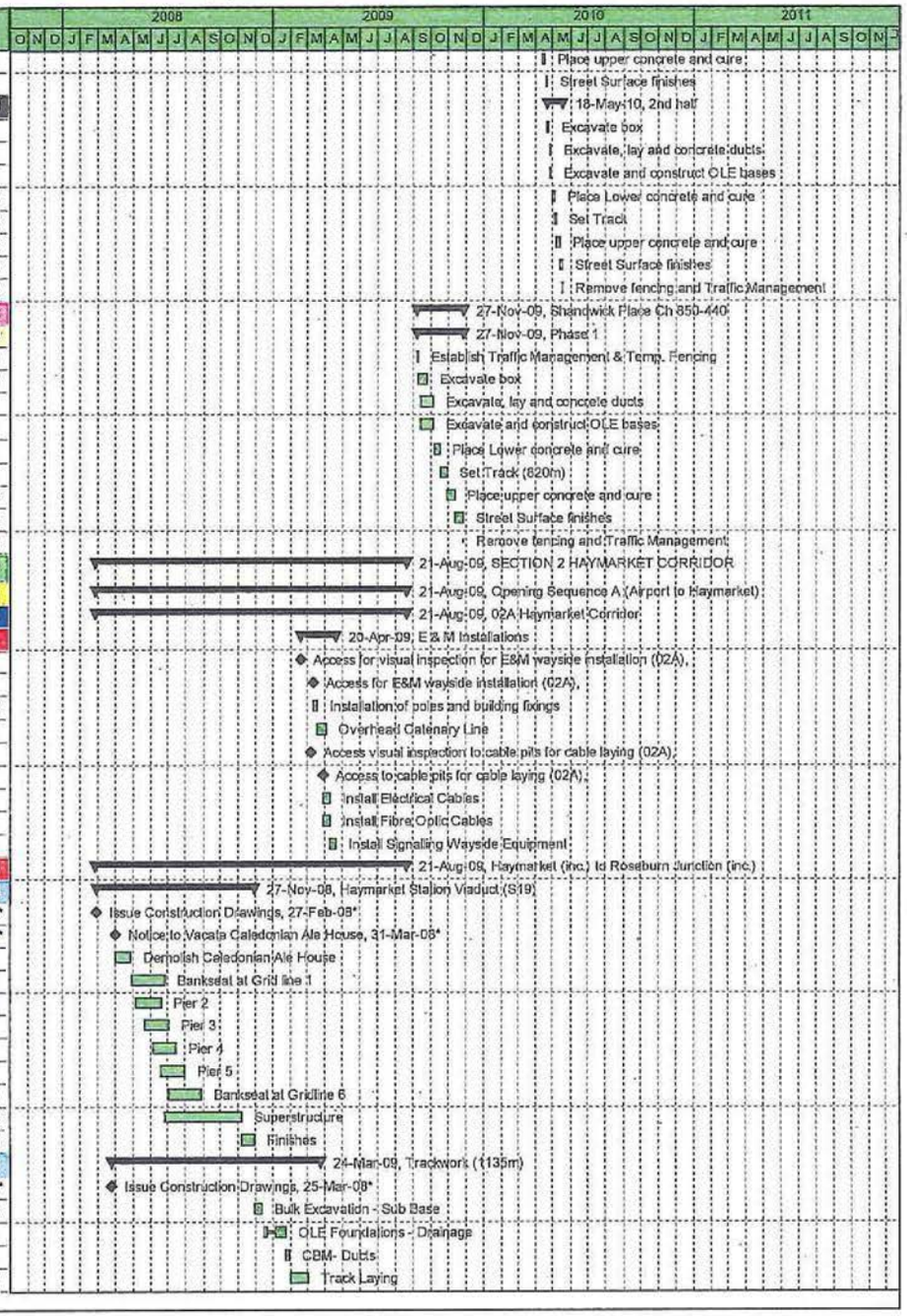
Activity ID	Activity Name	Original Duration	Start	Finish
A8010	Place upper concrete and cure	5	12-Apr-10	16-Apr-10
A8020	Street Surface finishes	3	19-Apr-10	21-Apr-10
2nd half		19	22-Apr-10	18-May-10
A8030	Excavate box	2	22-Apr-10	23-Apr-10
A8040	Excavate, lay and concrete ducts	3	26-Apr-10	28-Apr-10
A8050	Excavate and construct OLE bases	3	26-Apr-10	28-Apr-10
A8060	Place Lower concrete and cure	3	29-Apr-10	04-May-10
A8070	Set Track	1	05-May-10	05-May-10
A8080	Place upper concrete and cure	5	06-May-10	12-May-10
A8090	Street Surface finishes	3	13-May-10	17-May-10
A8095	Remove fencing and Traffic Management	1	18-May-10	18-May-10
Shandwick Place Ch 850-440		57	07-Sep-09	27-Nov-09
Phase 1		57	07-Sep-09	27-Nov-09
A8100	Establish Traffic Management & Temp. Fencing	2	07-Sep-09	08-Sep-09
A8110	Excavate box	12	09-Sep-09	24-Sep-09
A8120	Excavate, lay and concrete ducts	17	14-Sep-09	06-Oct-09
A8130	Excavate and construct OLE bases	17	14-Sep-09	06-Oct-09
A8140	Place Lower concrete and cure	8	07-Oct-09	16-Oct-09
A8150	Set Track (820m)	9	19-Oct-09	29-Oct-09
A8160	Place upper concrete and cure	10	30-Oct-09	12-Nov-09
A8170	Street Surface finishes	10	13-Nov-09	26-Nov-09
A8175	Remove fencing and Traffic Management	1	27-Nov-09	27-Nov-09
SECTION 2 HAYMARKET CORRIDOR		379	26-Feb-08	21-Aug-09
Opening Sequence A (Airport to Haymarket)		379	26-Feb-08	21-Aug-09
02A Haymarket Corridor		379	26-Feb-08	21-Aug-09
E & M Installations		45	17-Feb-09	20-Apr-09
A4043	Access for visual inspection for E&M wayside installation (02A)	0	17-Feb-09	
A4044	Access for E&M wayside installation (02A)	0	11-Mar-09	
A4045	Installation of poles and building fixings	7	11-Mar-09	17-Mar-09
A4050	Overhead Catenary Line	16	18-Mar-09	02-Apr-09
A4058	Access visual inspection to cable pits for cable laying (02A)	0	06-Mar-09	
A4059	Access to cable pits for cable laying (02A)	0	28-Mar-09	
A4060	Install Electrical Cables	12	28-Mar-09	08-Apr-09
A4070	Install Fibre Optic Cables	12	28-Mar-09	08-Apr-09
A4080	Install Signalling Wayside Equipment	12	09-Apr-09	20-Apr-09
Haymarket (inc.) to Roseburn Junction (inc.)		379	26-Feb-08	21-Aug-09
Haymarket Station Viaduct (S19)		192	27-Feb-08	27-Nov-08
10330	Issue Construction Drawings	0		27-Feb-08*
10331	Notice to Vacate Caledonian Ale House	0		31-Mar-08*
1138	Demolish Caledonian Ale House	20	01-Apr-08	28-Apr-08
1139	Bankseat at Grid line 1	40	29-Apr-08	25-Jun-08
192	Pier 2	30	07-May-08	18-Jun-08
227	Pier 3	30	21-May-08	02-Jul-08
498	Pier 4	30	05-Jun-08	16-Jul-08
508	Pier 5	30	19-Jun-08	30-Jul-08
550	Bankseat at Gridline 6	40	03-Jul-08	28-Aug-08
570	Superstructure	95	26-Jun-08	06-Nov-08
580	Finishes	15	07-Nov-08	27-Nov-08
Trackwork (1135m)		253	25-Mar-08	24-Mar-09
10340	Issue Construction Drawings	0		25-Mar-08*
1099	Bulk Excavation - Sub Base	10	28-Nov-08	12-Dec-08
1109	OLE Foundations - Drainage	19	15-Dec-08	22-Jan-09
1119	CBM- Ducts	5	23-Jan-09	29-Jan-09
1129	Track Laying	23	30-Jan-09	03-Mar-09



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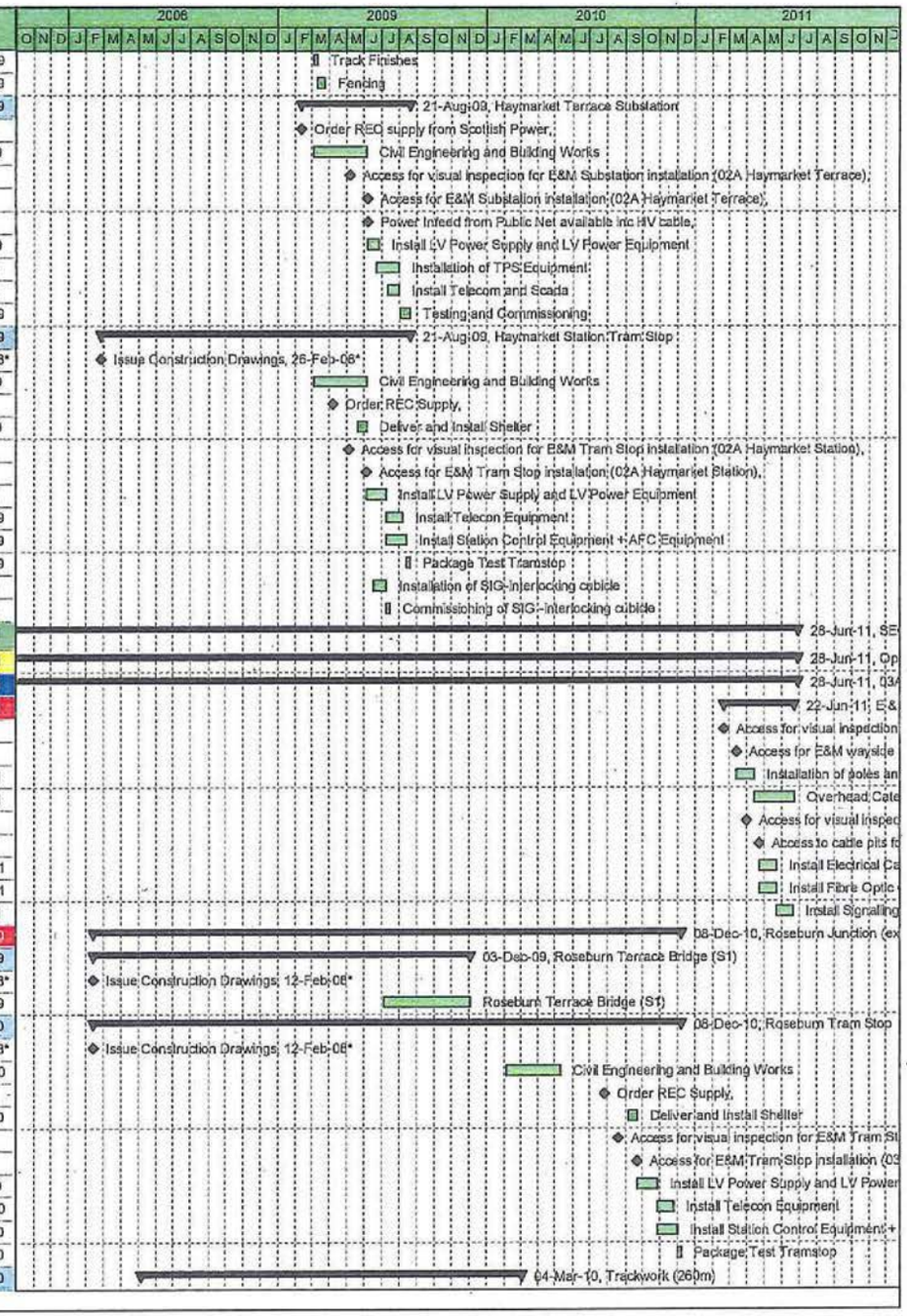
Activity ID	Activity Name	Original Duration	Start	Finish
263	Track Finishes	5	04-Mar-09	10-Mar-09
550	Fencing	10	11-Mar-09	24-Mar-09
Haymarket Terrace Substation		136	11-Feb-09	21-Aug-09
326	Order REC supply from Scottish Power	0	11-Feb-09	
336	Civil Engineering and Building Works	65	04-Mar-09	05-Jun-09
A2698	Access for visual inspection for E&M Substation installation (02A Haymarket Terrac	0	07-May-09	
A2699	Access for E&M Substation installation (02A Haymarket Terrace)	0	08-Jun-09	
A5630	Power Infeed from Public Net available inc HV cable	0	08-Jun-09	
A5640	Install LV Power Supply and LV Power Equipment	15	08-Jun-09	26-Jun-09
A5650	Installation of TPS Equipment	30	22-Jun-09	31-Jul-09
A5660	Install Telecom and Scada	15	13-Jul-09	31-Jul-09
A5670	Testing and Commissioning	14	04-Aug-09	21-Aug-09
Haymarket Station Tram Stop		378	26-Feb-08	21-Aug-09
12350	Issue Construction Drawings	0		26-Feb-08*
135	Civil Engineering and Building Works	65	04-Mar-09	05-Jun-09
488	Order REC Supply	0	08-Apr-09	
A2480	Deliver and Install Shelter	10	20-May-09	04-Jun-09
A4678	Access for visual inspection for E&M Tram Stop installation (02A Haymarket Statior	0	05-May-09	
A4679	Access for E&M Tram Stop installation (02A Haymarket Station)	0	04-Jun-09	
A4680	Install LV Power Supply and LV Power Equipment	25	04-Jun-09	09-Jul-09
A4690	Install Telecon Equipment	20	09-Jul-09	07-Aug-09
A4700	Install Station Control Equipment + AFC Equipment	25	09-Jul-09	14-Aug-09
A4710	Package Test Tramstop	5	14-Aug-09	21-Aug-09
A6170	Installation of SIG-interlocking cubicle	15	18-Jun-09	09-Jul-09
A6180	Commissioning of SIG -interlocking cubicle	5	09-Jul-09	16-Jul-09
SECTION 03 HAYMARKET TO GRANTON SQUARE		953	28-Sep-07	28-Jun-11
Opening Sequence C (Roseburn Junction to Crewe Toll)		953	28-Sep-07	28-Jun-11
03A Roseburn Junction (exc.) to Crewe Toll (inc.)		953	28-Sep-07	28-Jun-11
E & M Installations		88	20-Feb-11	22-Jun-11
A3923	Access for visual inspection for E&M wayside installation (03A)	0	20-Feb-11	
A3924	Access for E&M wayside installation (03A)	0	14-Mar-11	
A3925	Installation of poles and building fixings	30	14-Mar-11	12-Apr-11
A3930	Overhead Catenary Line	71	13-Apr-11	22-Jun-11
A3938	Access for visual inspection to cable pits for cable laying (03A)	0	01-Apr-11	
A3939	Access to cable pits for cable laying (03A)	0	23-Apr-11	
A3940	Install Electrical Cables	30	23-Apr-11	22-May-11
A3950	Install Fibre Optic Cables	30	23-Apr-11	22-May-11
A3960	Install Signalling Wayside Equipment	30	23-May-11	21-Jun-11
Roseburn Junction (exc.) to Roseburn (inc.)		716	12-Feb-08	08-Dec-10
Roseburn Terrace Bridge (S1)		460	12-Feb-08	03-Dec-09
12360	Issue Construction Drawings	0		12-Feb-08*
57	Roseburn Terrace Bridge (S1)	107	06-Jul-09	03-Dec-09
Roseburn Tram Stop		716	12-Feb-08	08-Dec-10
12370	Issue Construction Drawings	0		12-Feb-08*
215	Civil Engineering and Building Works	65	05-Feb-10	10-May-10
638	Order REC Supply	0	26-Jul-10	
A3060	Deliver and Install Shelter	10	07-Sep-10	21-Sep-10
A4718	Access for visual inspection for E&M Tram Stop installation (03A Roseburn)	0	20-Aug-10	
A4719	Access for E&M Tram Stop installation (03A Roseburn)	0	21-Sep-10	
A4720	Install LV Power Supply and LV Power Equipment	25	21-Sep-10	26-Oct-10
A4730	Install Telecon Equipment	20	26-Oct-10	23-Nov-10
A4740	Install Station Control Equipment + AFC Equipment	25	26-Oct-10	01-Dec-10
A4750	Package Test Tramstop	5	01-Dec-10	08-Dec-10
Trackwork (260m)		464	06-May-08	04-Mar-10



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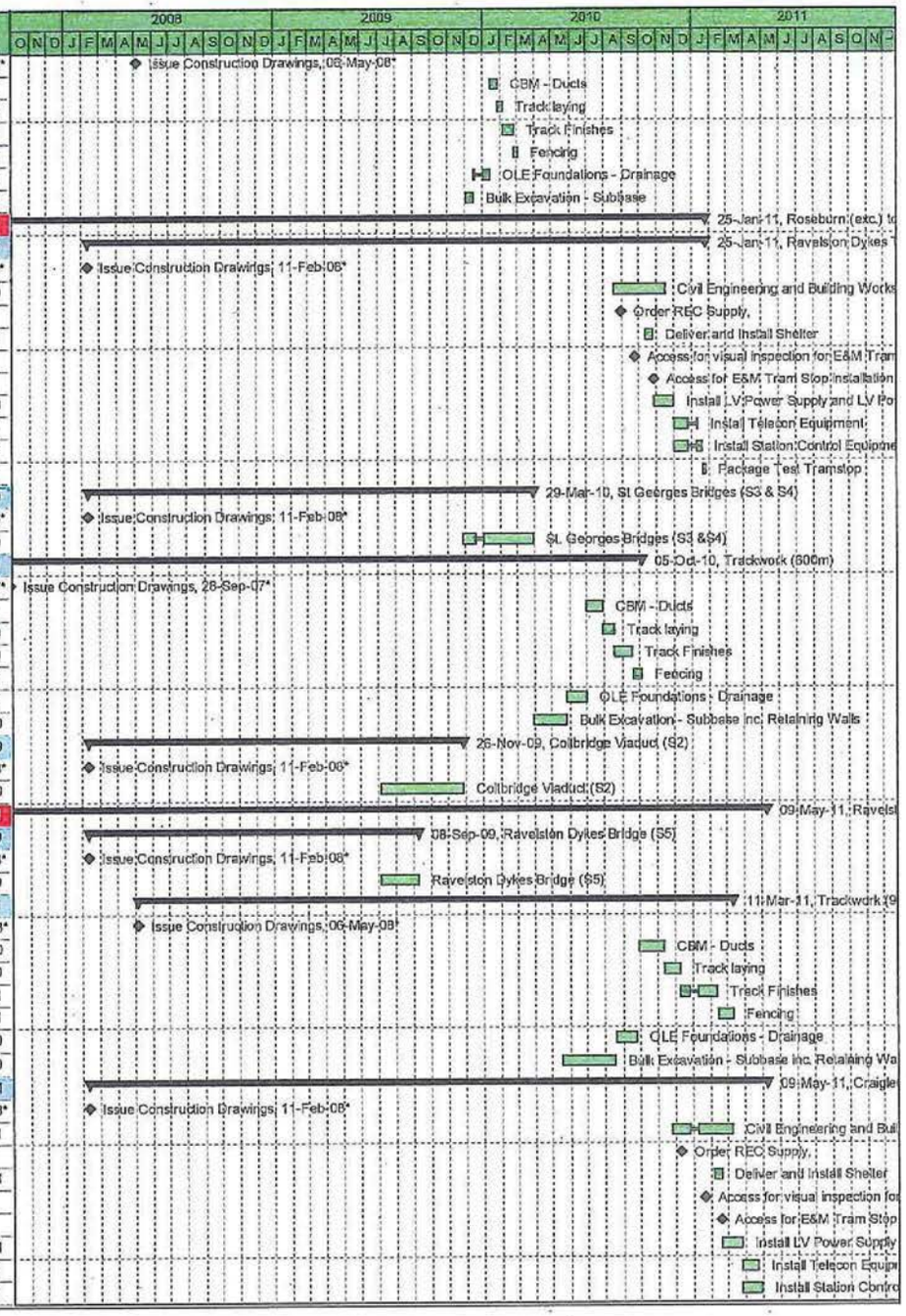
Activity ID	Activity Name	Original Duration	Start	Finish
12380	Issue Construction Drawings	0		06-May-08*
1379	CBM - Ducts	9	15-Jan-10	27-Jan-10
1389	Track laying	6	28-Jan-10	04-Feb-10
1399	Track Finishes	14	05-Feb-10	24-Feb-10
1419	Fencing	6	25-Feb-10	04-Mar-10
313	OLE Foundations - Drainage	10	18-Dec-09	14-Jan-10
590	Bulk Excavation - Subbase	10	04-Dec-09	17-Dec-09
Roseburn (exc.) to Ravelston Dykes (inc.)		**843**	**28-Sep-07**	**25-Jan-11**
Ravelston Dykes Tram Stop		**751**	**11-Feb-08**	**25-Jan-11**
12390	Issue Construction Drawings	0		11-Feb-08*
225	Civil Engineering and Building Works	65	17-Aug-10	15-Nov-10
648	Order REC Supply	0	31-Aug-10	
A3100	Deliver and Install Shelter	10	12-Oct-10	25-Oct-10
A4758	Access for visual inspection for E&M Tram Stop installation (03A Ravelston Dykes)	0	24-Sep-10	
A4759	Access for E&M Tram Stop installation (03A Ravelston Dykes)	0	26-Oct-10	
A4760	Install LV Power Supply and LV Power Equipment	25	26-Oct-10	30-Nov-10
A4770	Install Telecon Equipment	20	01-Dec-10	11-Jan-11
A4780	Install Station Control Equipment + AFC Equipment	25	01-Dec-10	18-Jan-11
A4790	Package Test Tramstop	5	19-Jan-11	25-Jan-11
St Georges Bridges (S3 & S4)		**541**	**11-Feb-08**	**29-Mar-10**
12400	Issue Construction Drawings	0	-	11-Feb-08*
62	St. Georges Bridges (S3 &S4)	76	27-Nov-09	29-Mar-10
Trackwork (600m)		**766**	**28-Sep-07**	**05-Oct-10**
12410	Issue Construction Drawings	0		28-Sep-07*
1409	CBM - Ducts	20	01-Jul-10	28-Jul-10
1429	Track laying	12	29-Jul-10	16-Aug-10
1439	Track Finishes	24	17-Aug-10	17-Sep-10
1449	Fencing	12	20-Sep-10	05-Oct-10
323	OLE Foundations - Drainage	24	27-May-10	30-Jun-10
700	Bulk Excavation - Subbase inc. Retaining Walls	40	30-Mar-10	26-May-10
Coltbridge Viaduct (S2)		**457**	**11-Feb-08**	**26-Nov-09**
12420	Issue Construction Drawings	0		11-Feb-08*
61	Coltbridge Viaduct (S2)	103	06-Jul-09	26-Nov-09
Ravelston Dykes (exc.) to Craigleith (inc.)		**917**	**28-Sep-07**	**09-May-11**
Ravelston Dykes Bridge (S5)		**401**	**11-Feb-08**	**08-Sep-09**
12430	Issue Construction Drawings	0		11-Feb-08*
76	Ravelston Dykes Bridge (S5)	46	06-Jul-09	08-Sep-09
Trackwork (990m)		**724**	**06-May-08**	**11-Mar-11**
12440	Issue Construction Drawings	0		06-May-08*
1459	CBM - Ducts	33	27-Sep-10	10-Nov-10
1469	Track laying	20	11-Nov-10	09-Dec-10
1479	Track Finishes	36	10-Dec-10	11-Feb-11
1489	Fencing	20	14-Feb-11	11-Mar-11
333	OLE Foundations - Drainage	27	19-Aug-10	24-Sep-10
710	Bulk Excavation - Subbase inc. Retaining Walls	66	17-May-10	18-Aug-10
Craigleith Tram Stop		**625**	**11-Feb-08**	**09-May-11**
12450	Issue Construction Drawings	0		11-Feb-08*
235	Civil Engineering and Building Works	65	25-Nov-10	10-Mar-11
658	Order REC Supply	0	10-Dec-10	
A3140	Deliver and Install Shelter	10	04-Feb-11	17-Feb-11
A4798	Access for visual inspection for E&M Tram Stop installation (03A Craigleith)	0	19-Jan-11	
A4799	Access for E&M Tram Stop installation (03A Craigleith)	0	18-Feb-11	
A4800	Install LV Power Supply and LV Power Equipment	25	18-Feb-11	24-Mar-11
A4810	Install Telecon Equipment	20	25-Mar-11	22-Apr-11
A4820	Install Station Control Equipment + AFC Equipment	25	25-Mar-11	29-Apr-11



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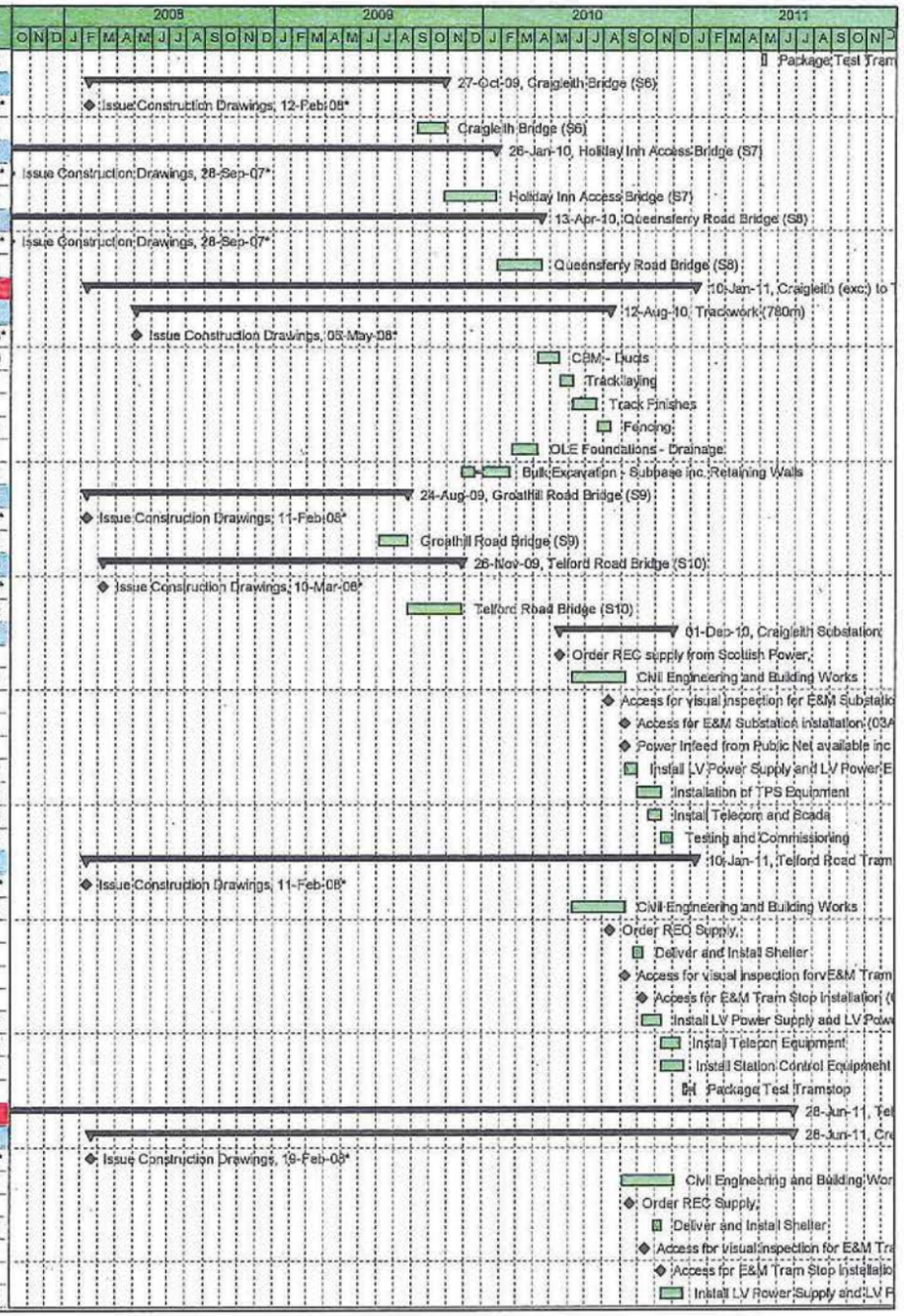
Activity ID	Activity Name	Original Duration	Start	Finish
A4830	Package Test Tramstop	5	03-May-11	09-May-11
Craigleith Bridge (S6)		435	12-Feb-08	27-Oct-09
12460	Issue Construction Drawings	0		12-Feb-08*
67	Craigleith Bridge (S6)	35	09-Sep-09	27-Oct-09
Holiday Inn Access Bridge (S7)		589	28-Sep-07	26-Jan-10
12470	Issue Construction Drawings	0		28-Sep-07*
68	Holiday Inn Access Bridge (S7)	65	28-Oct-09	26-Jan-10
Queensferry Road Bridge (S8)		644	28-Sep-07	13-Apr-10
12480	Issue Construction Drawings	0		28-Sep-07*
86	Queensferry Road Bridge (S8)	54	27-Jan-10	13-Apr-10
Craigleith (exc.) to Telford Road (inc.)		739	11-Feb-08	10-Jan-11
Trackwork (780m)		577	06-May-08	12-Aug-10
12490	Issue Construction Drawings	0		06-May-08*
1499	CBM - Ducts	26	08-Apr-10	14-May-10
1509	Track laying	16	17-May-10	08-Jun-10
1519	Track Finishes	30	09-Jun-10	20-Jul-10
1529	Fencing	16	21-Jul-10	12-Aug-10
343	OLE Foundations - Drainage	32	22-Feb-10	07-Apr-10
720	Bulk Excavation - Subbase inc. Retaining Walls	50	27-Nov-09	19-Feb-10
Groathill Road Bridge (S9)		391	11-Feb-08	24-Aug-09
12500	Issue Construction Drawings	0		11-Feb-08*
73	Groathill Road Bridge (S9)	35	06-Jul-09	24-Aug-09
Telford Road Bridge (S10)		437	10-Mar-08	26-Nov-09
12510	Issue Construction Drawings	0		10-Mar-08*
74	Telford Road Bridge (S10)	68	25-Aug-09	26-Nov-09
Craigleith Substation		137	18-May-10	01-Dec-10
406	Order REC supply from Scottish Power	0	18-May-10	
416	Civil Engineering and Building Works	65	09-Jun-10	08-Sep-10
A3208	Access for visual inspection for E&M Substation installation (03A Craigleith)	0	10-Aug-10	
A3209	Access for E&M Substation installation (03A Craigleith)	0	09-Sep-10	
A5680	Power Infeed from Public Net available inc HV cable	0	09-Sep-10	
A5690	Install LV Power Supply and LV Power Equipment	15	09-Sep-10	29-Sep-10
A5700	Installation of TPS Equipment	30	30-Sep-10	10-Nov-10
A5710	Install Telecom and Scada	15	21-Oct-10	10-Nov-10
A5720	Testing and Commissioning	14	11-Nov-10	01-Dec-10
Telford Road Tram Stop		739	11-Feb-08	10-Jan-11
12520	Issue Construction Drawings	0		11-Feb-08*
245	Civil Engineering and Building Works	65	09-Jun-10	08-Sep-10
668	Order REC Supply	0	13-Aug-10	
A3180	Deliver and Install Shelter	10	24-Sep-10	08-Oct-10
A4838	Access for visual inspection forvE&M Tram Stop installation (03A Telford Road)	0	08-Sep-10	
A4839	Access for E&M Tram Stop installation (03A Telford Road)	0	08-Oct-10	
A4840	Install LV Power Supply and LV Power Equipment	25	08-Oct-10	12-Nov-10
A4850	Install Telecon Equipment	20	12-Nov-10	13-Dec-10
A4860	Install Station Control Equipment + AFC Equipment	25	12-Nov-10	20-Dec-10
A4870	Package Test Tramstop	5	20-Dec-10	10-Jan-11
Telford Road (exc.) to Crewe Toll (inc.)		853	28-Sep-07	28-Jun-11
Crewe Road Tram Stop		855	19-Feb-08	28-Jun-11
12530	Issue Construction Drawings	0		19-Feb-08*
255	Civil Engineering and Building Works	65	03-Sep-10	03-Dec-10
678	Order REC Supply	0	17-Sep-10	
A3240	Deliver and Install Shelter	10	29-Oct-10	11-Nov-10
A4878	Access for visual inspection for E&M Tram Stop installation (03A Crewe Road)	0	13-Oct-10	
A4879	Access for E&M Tram Stop installation (03A Crewe Road)	0	12-Nov-10	
A4880	Install LV Power Supply and LV Power Equipment	25	12-Nov-10	17-Dec-10



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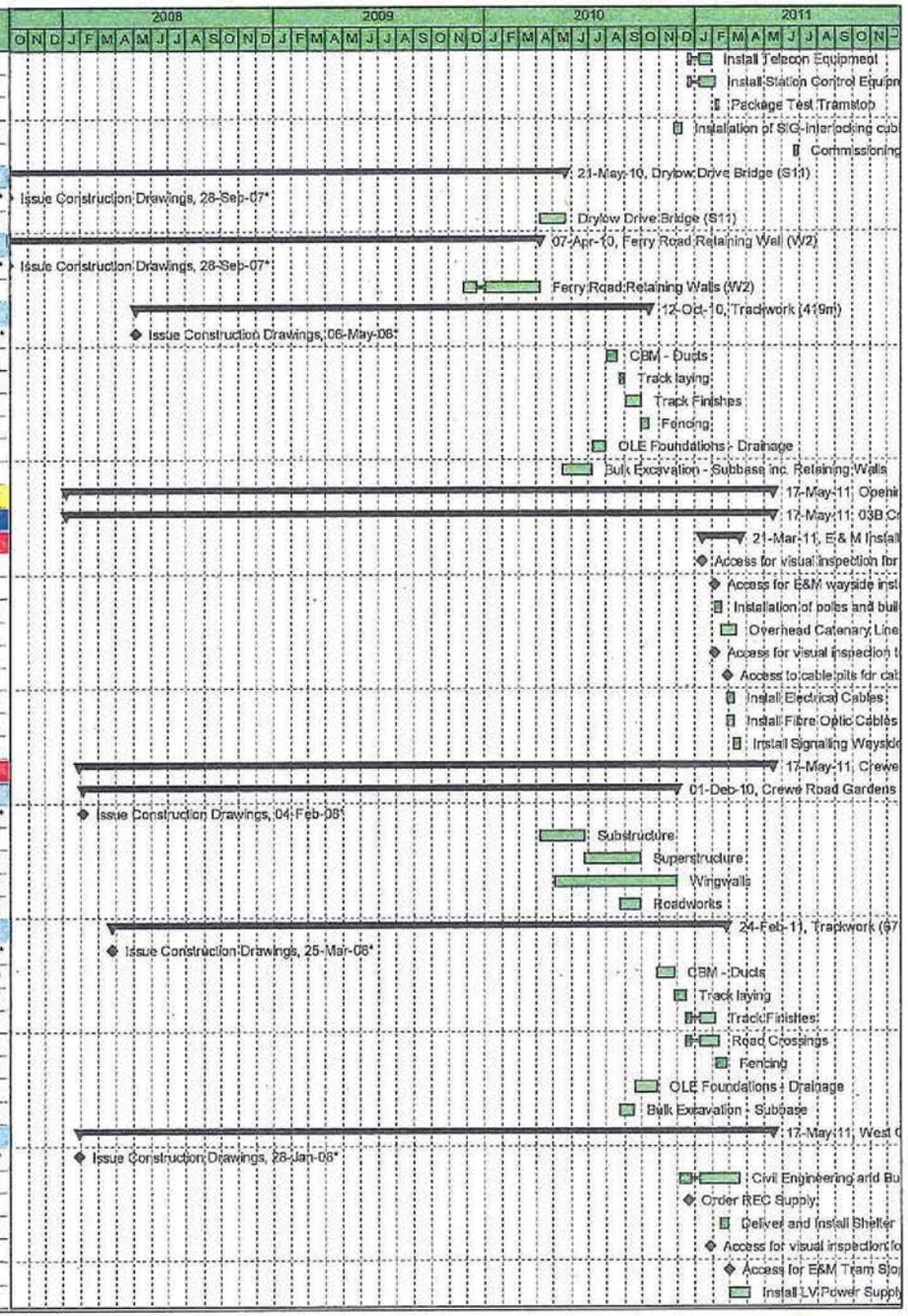
Activity ID	Activity Name	Original Duration	Start	Finish
A4890	Install Telecon Equipment	20	20-Dec-10	28-Jan-11
A4900	Install Station Control Equipment + AFC Equipment	25	20-Dec-10	04-Feb-11
A4910	Package Test Tramstop	5	07-Feb-11	11-Feb-11
A6210	Installation of SIG-interlocking cubicle	10	26-Nov-10	09-Dec-10
A6220	Commissioning of SIG -interlocking cubicle	5	22-Jun-11	28-Jun-11
Drylow Drive Bridge (S11)		672	28-Sep-07	21-May-10
12540	Issue Construction Drawings	0		28-Sep-07*
78	Drylow Drive Bridge (S11)	31	06-Apr-10	21-May-10
Ferry Road Retaining Wall (W2)		640	28-Sep-07	07-Apr-10
12550	Issue Construction Drawings	0		28-Sep-07*
79	Ferry Road Retaining Walls (W2)	82	27-Nov-09	07-Apr-10
Trackwork (419m)		619	06-May-08	12-Oct-10
12560	Issue Construction Drawings	0		06-May-08*
1539	CBM - Ducts	14	03-Aug-10	20-Aug-10
1549	Track laying	9	23-Aug-10	02-Sep-10
1559	Track Finishes	19	03-Sep-10	29-Sep-10
1569	Fencing	9	30-Sep-10	12-Oct-10
353	OLE Foundations - Drainage	17	08-Jul-10	30-Jul-10
730	Bulk Excavation - Subbase inc. Retaining Walls	37	17-May-10	07-Jul-10
Opening Sequence D (Crewe Toll to Granton Square)		857	07-Jan-08	17-May-11
03B Crewe Toll (exc.) to Caroline Park (inc.)		857	07-Jan-08	17-May-11
E & M Installations		47	14-Jan-11	21-Mar-11
A3953	Access for visual inspection for E&M wayside installation (03B)	0	14-Jan-11	
A3954	Access for E&M wayside installation (03B)	0	05-Feb-11	
A3955	Installation of poles and building fixings	11	05-Feb-11	15-Feb-11
A3970	Overhead Catenary Line	26	16-Feb-11	13-Mar-11
A3978	Access for visual inspection to cable pits for cable laying (03B)	0	04-Feb-11	
A3979	Access to cable pits for cable laying (03B)	0	26-Feb-11	
A3980	Install Electrical Cables	12	26-Feb-11	09-Mar-11
A3990	Install Fibre Optic Cables	12	26-Feb-11	09-Mar-11
A4000	Install Signalling Wayside Equipment	12	10-Mar-11	21-Mar-11
Crewe Toll (exc.) to West Granton Avenue (inc.)		841	28-Jan-08	17-May-11
Crewe Road Gardens Bridge (S12)		718	04-Feb-08	01-Dec-10
12570	Issue Construction Drawings	0		04-Feb-08*
1579	Substructure	53	08-Apr-10	23-Jun-10
1589	Superstructure	67	24-Jun-10	27-Sep-10
1599	Wingwalls	149	04-May-10	01-Dec-10
85	Roadworks	25	25-Aug-10	28-Sep-10
Trackwork (670m)		742	25-Mar-08	24-Feb-11
12580	Issue Construction Drawings	0		25-Mar-08*
1329	CBM - Ducts	22	27-Oct-10	25-Nov-10
1339	Track laying	14	28-Nov-10	16-Dec-10
1349	Track Finishes	26	17-Dec-10	04-Feb-11
1359	Road Crossings	30	17-Dec-10	10-Feb-11
1369	Fencing	14	07-Feb-11	24-Feb-11
303	OLE Foundations - Drainage	27	20-Sep-10	26-Oct-10
680	Bulk Excavation - Subbase	18	25-Aug-10	17-Sep-10
West Granton Avenue Tram Stop		841	28-Jan-08	17-May-11
12590	Issue Construction Drawings	0		28-Jan-08*
205	Civil Engineering and Building Works	65	03-Dec-10	18-Mar-11
628	Order REC Supply	0	20-Dec-10	
A3020	Deliver and Install Shelter	10	14-Feb-11	25-Feb-11
A4918	Access for visual inspection for E&M Tram Stop installation (03B West Granton Ave	0	27-Jan-11	
A4919	Access for E&M Tram Stop installation (03B West Granton Avenue)	0	28-Feb-11	
A4920	Install LV Power Supply and LV Power Equipment	25	28-Feb-11	04-Apr-11



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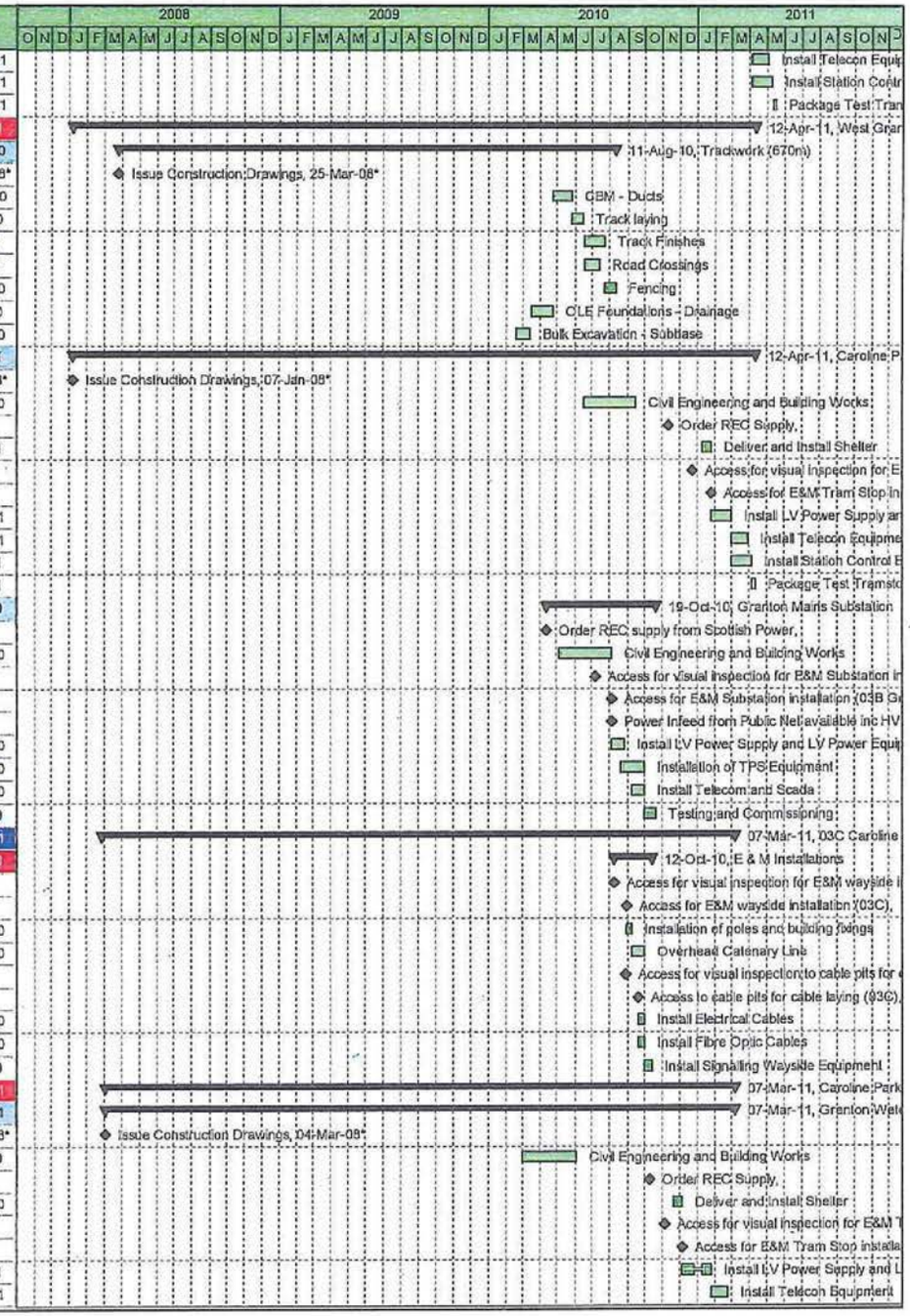
Activity ID	Activity Name	Original Duration	Start	Finish
A4930	Install Telecon Equipment	20	05-Apr-11	03-May-11
A4940	Install Station Control Equipment + AFC Equipment	25	05-Apr-11	10-May-11
A4950	Package Test Tramstop	5	11-May-11	17-May-11
West Granton Avenue (exc.) to Caroline Park (inc.)		**831**	**07-Jan-08**	**12-Apr-11**
Trackwork (670m)		**605**	**25-Mar-08**	**11-Aug-10**
12600	Issue Construction Drawings	0		25-Mar-08*
1279	CBM - Ducts	22	23-Apr-10	25-May-10
1289	Track laying	14	26-May-10	15-Jun-10
1299	Track Finishes	26	16-Jun-10	21-Jul-10
1309	Road Crossings	20	16-Jun-10	13-Jul-10
1319	Fencing	14	22-Jul-10	11-Aug-10
293	OLE Foundations - Drainage	27	16-Mar-10	22-Apr-10
870	Bulk Excavation - Subbase	18	18-Feb-10	15-Mar-10
Caroline Park Tram Stop		**831**	**07-Jan-08**	**12-Apr-11**
12610	Issue Construction Drawings	0		07-Jan-08*
195	Civil Engineering and Building Works	65	16-Jun-10	15-Sep-10
618	Order REC Supply	0	12-Nov-10	
A2960	Deliver and Install Shelter	10	10-Jan-11	24-Jan-11
A4958	Access for visual inspection for E&M Tram Stop installation (03B Caroline Park)	0	23-Dec-10	
A4959	Access for E&M Tram Stop installation (03B Caroline Park)	0	24-Jan-11	
A4960	Install LV Power Supply and LV Power Equipment	25	24-Jan-11	28-Feb-11
A4970	Install Telecon Equipment	20	28-Feb-11	28-Mar-11
A4980	Install Station Control Equipment + AFC Equipment	25	28-Feb-11	05-Apr-11
A4990	Package Test Tramstop	5	05-Apr-11	12-Apr-11
Granton Mains Substation		**134**	**12-Apr-10**	**19-Oct-10**
386	Order REC supply from Scottish Power	0	12-Apr-10	
396	Civil Engineering and Building Works	65	04-May-10	04-Aug-10
A2988	Access for visual inspection for E&M Substation installation (03B Granton Mains)	0	06-Jul-10	
A2989	Access for E&M Substation installation (03B Granton Mains)	0	05-Aug-10	
A5730	Power Infeed from Public Net available inc HV cable	0	05-Aug-10	
A5740	Install LV Power Supply and LV Power Equipment	15	05-Aug-10	25-Aug-10
A5750	Installation of TPS Equipment	30	19-Aug-10	29-Sep-10
A5760	Install Telecom and Scada	15	09-Sep-10	29-Sep-10
A5770	Testing and Commissioning	14	30-Sep-10	19-Oct-10
03C Caroline Park (exc.) to Granton Square (inc.)		**769**	**25-Feb-08**	**07-Mar-11**
E & M Installations		**46**	**09-Aug-10**	**12-Oct-10**
A4003	Access for visual inspection for E&M wayside installation (03C)	0	09-Aug-10	
A4004	Access for E&M wayside installation (03C)	0	31-Aug-10	
A4005	Installation of poles and building fixings	9	31-Aug-10	08-Sep-10
A4010	Overhead Catenary Line	22	09-Sep-10	30-Sep-10
A4018	Access for visual inspection to cable pits for cable laying (03C)	0	28-Aug-10	
A4019	Access to cable pits for cable laying (03C)	0	19-Sep-10	
A4020	Install Electrical Cables	12	19-Sep-10	30-Sep-10
A4030	Install Fibre Optic Cables	12	19-Sep-10	30-Sep-10
A4040	Install Signalling Wayside Equipment	12	01-Oct-10	12-Oct-10
Caroline Park (exc.) to Granton Waterfront (inc.)		**763**	**04-Mar-08**	**07-Mar-11**
Granton Waterfront Tram Stop		**763**	**04-Mar-08**	**07-Mar-11**
12620	Issue Construction Drawings	0		04-Mar-08*
185	Civil Engineering and Building Works	65	02-Mar-10	03-Jun-10
608	Order REC Supply	0	08-Oct-10	
A2920	Deliver and Install Shelter	10	19-Nov-10	06-Dec-10
A4998	Access for visual inspection for E&M Tram Stop installation (03C Granton Waterfro	0	04-Nov-10	
A4999	Access for E&M Tram Stop installation (03C Granton Waterfront)	0	06-Dec-10	
A5000	Install LV Power Supply and LV Power Equipment	25	06-Dec-10	24-Jan-11
A5010	Install Telecon Equipment	20	24-Jan-11	21-Feb-11



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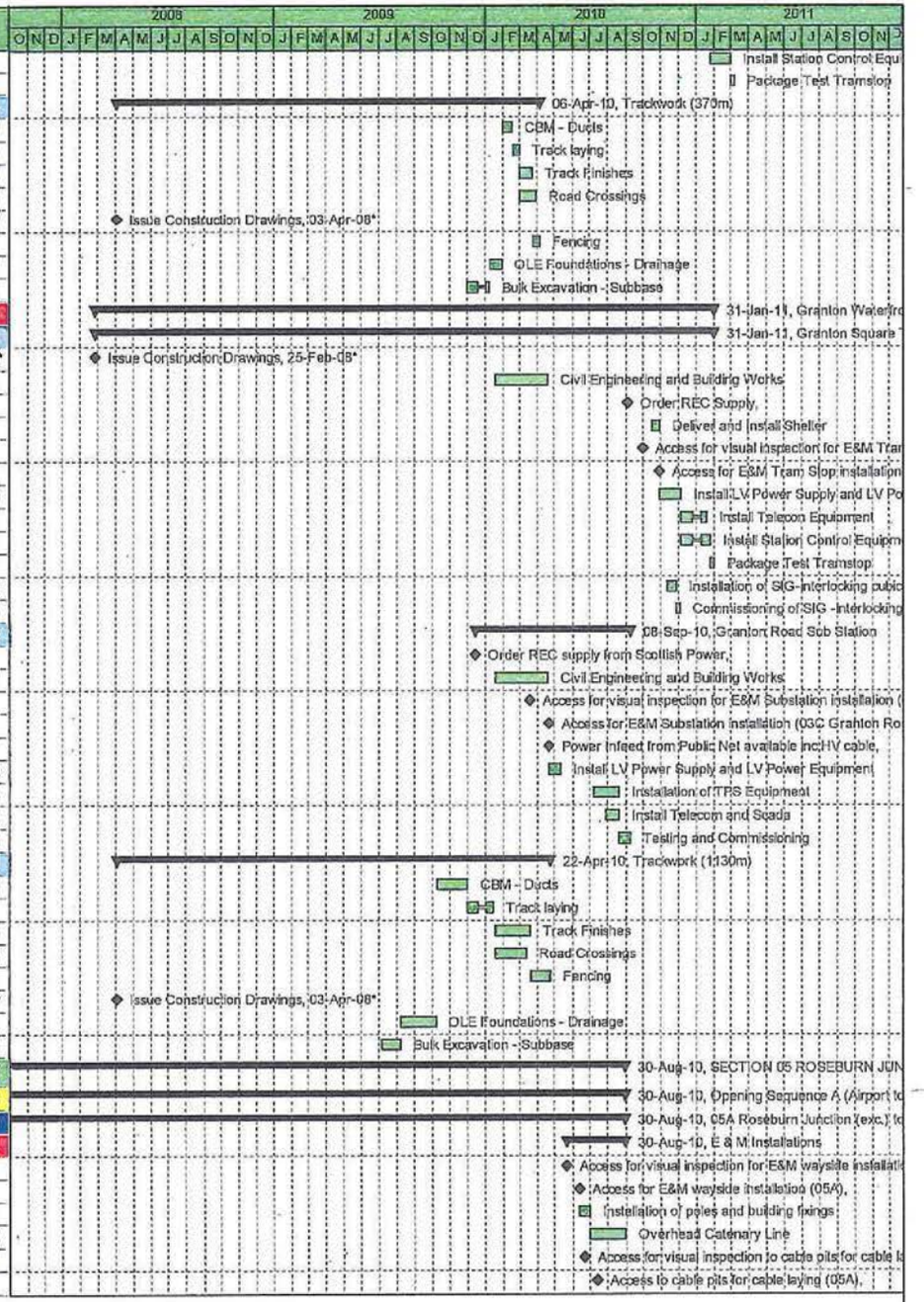
Activity ID	Activity Name	Original Duration	Start	Finish
A5020	Install Station Control Equipment + AFC Equipment	25	24-Jan-11	26-Feb-11
A5030	Package Test Tramstop	5	28-Feb-11	07-Mar-11
Trackwork (370m)		509	03-Apr-08	06-Apr-10
1229	CBM - Ducts	13	01-Feb-10	17-Feb-10
1239	Track laying	8	18-Feb-10	01-Mar-10
1249	Track Finishes	17	02-Mar-10	24-Mar-10
1259	Road Crossings	20	02-Mar-10	29-Mar-10
12630	Issue Construction Drawings	0		03-Apr-08*
1269	Fencing	8	25-Mar-10	06-Apr-10
283	OLE Foundations - Drainage	15	11-Jan-10	29-Jan-10
660	Bulk Excavation - Subbase	18	02-Dec-09	08-Jan-10
Granton Waterfront (exc.) to Granton Square (inc.)		744	25-Feb-08	31-Jan-11
Granton Square Tram Stop		744	25-Feb-08	31-Jan-11
12640	Issue Construction Drawings	0		25-Feb-08*
175	Civil Engineering and Building Works	65	18-Jan-10	19-Apr-10
598	Order REC Supply	0	03-Sep-10	
A2860	Deliver and Install Shelter	10	15-Oct-10	29-Oct-10
A5038	Access for visual inspection for E&M Tram Stop installation (03C Granton Square)	0	29-Sep-10	
A5039	Access for E&M Tram Stop installation (03C Granton Square)	0	29-Oct-10	
A5040	Install LV Power Supply and LV Power Equipment	25	29-Oct-10	06-Dec-10
A5050	Install Telecon Equipment	20	06-Dec-10	17-Jan-11
A5060	Install Station Control Equipment + AFC Equipment	25	06-Dec-10	24-Jan-11
A5070	Package Test Tramstop	5	24-Jan-11	31-Jan-11
A6240	Installation of SIG-interlocking cubicle	10	12-Nov-10	26-Nov-10
A6250	Commissioning of SIG -interlocking cubicle	5	26-Nov-10	03-Dec-10
Granton Road Sub Station		187	14-Dec-09	08-Sep-10
366	Order REC supply from Scottish Power	0	14-Dec-09	
376	Civil Engineering and Building Works	65	18-Jan-10	19-Apr-10
A2888	Access for visual inspection for E&M Substation installation (03C Granton Road)	0	19-Mar-10	
A2889	Access for E&M Substation installation (03C Granton Road)	0	20-Apr-10	
A5780	Power Infeed from Public Net available inc HV cable	0	20-Apr-10	
A5790	Install LV Power Supply and LV Power Equipment	15	20-Apr-10	11-May-10
A5800	Installation of TPS Equipment	30	07-Jul-10	19-Aug-10
A5810	Install Telecom and Scada	15	28-Jul-10	19-Aug-10
A5820	Testing and Commissioning	14	19-Aug-10	08-Sep-10
Trackwork (1130m)		521	03-Apr-08	22-Apr-10
1179	CBM - Ducts	37	09-Oct-09	01-Dec-09
1189	Track laying	23	02-Dec-09	15-Jan-10
1199	Track Finishes	45	18-Jan-10	19-Mar-10
1209	Road Crossings	40	18-Jan-10	12-Mar-10
1219	Fencing	23	22-Mar-10	22-Apr-10
12650	Issue Construction Drawings	0		03-Apr-08*
273	OLE Foundations - Drainage	45	07-Aug-09	08-Oct-09
650	Bulk Excavation - Subbase	23	06-Jul-09	06-Aug-09
SECTION 05 ROSEBURN JUNCTION TO GOGAR		741	28-Sep-07	30-Aug-10
Opening Sequence A (Airport to Haymarket)		741	28-Sep-07	30-Aug-10
05A Roseburn Junction (exc.) to Balgreen Road (inc.)		741	28-Sep-07	30-Aug-10
E & M Installations		70	21-May-10	30-Aug-10
A4083	Access for visual inspection for E&M wayside installation (05A)	0	21-May-10	
A4084	Access for E&M wayside installation (05A)	0	12-Jun-10	
A4085	Installation of poles and building fixings	18	12-Jun-10	29-Jun-10
A4090	Overhead Catenary Line	43	30-Jun-10	30-Aug-10
A4098	Access for visual inspection to cable pits for cable laying (05A)	0	22-Jun-10	
A4099	Access to cable pits for cable laying (05A)	0	14-Jul-10	



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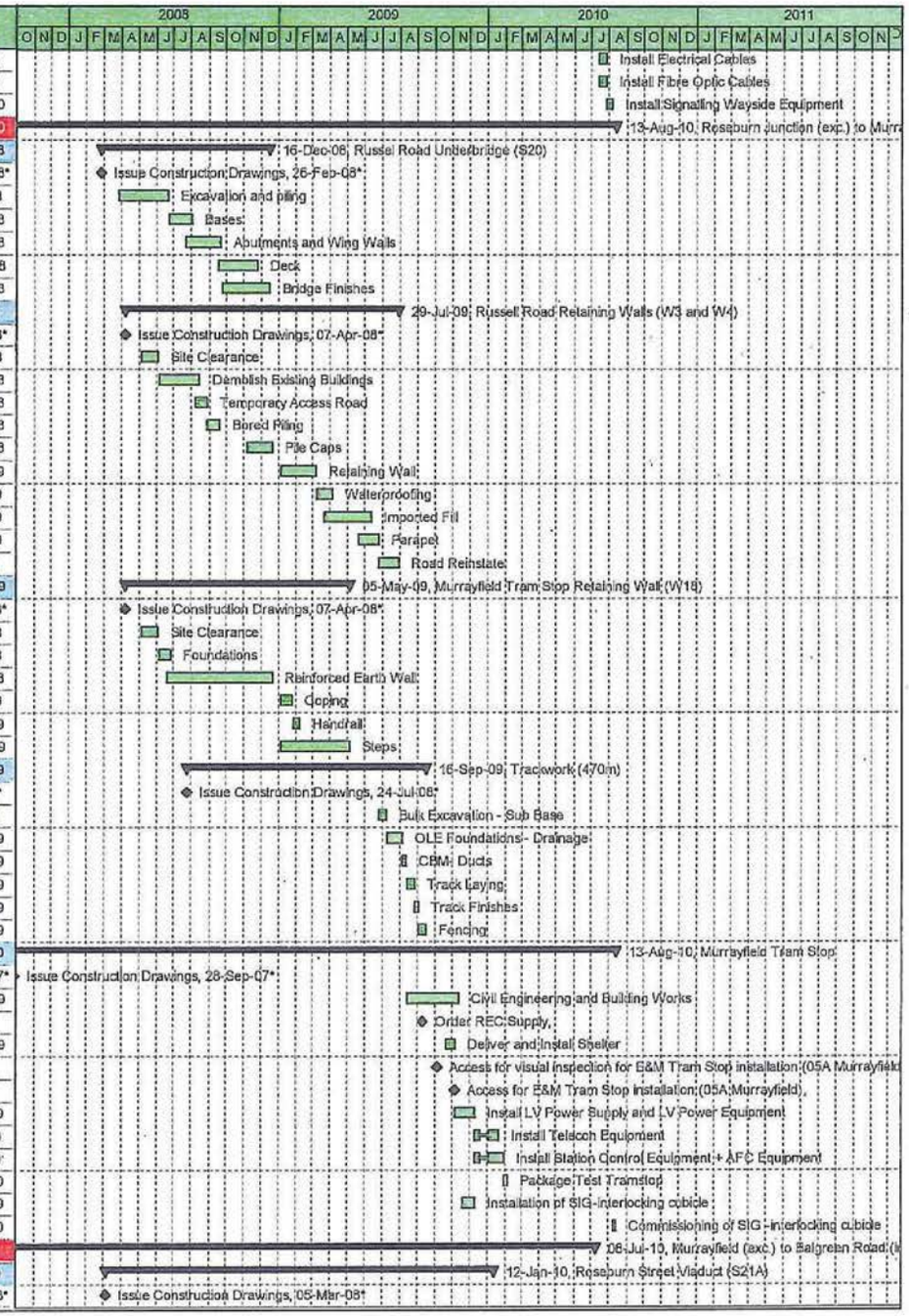
Activity ID	Activity Name	Original Duration	Start	Finish
A4100	Install Electrical Cables	12	14-Jul-10	25-Jul-10
A4110	Install Fibre Optic Cables	12	14-Jul-10	25-Jul-10
A4120	Install Signaling Wayside Equipment	12	26-Jul-10	08-Aug-10
Rosebum Junction (exc.) to Murrayfield (inc.)		730	28-Sep-07	13-Aug-10
Russel Road Underbridge (S20)		205	26-Feb-08	16-Dec-08
10270	Issue Construction Drawings	0		26-Feb-08*
103	Excavation and piling	60	27-Mar-08	20-Jun-08
238	Bases	30	23-Jun-08	01-Aug-08
429	Abutments and Wing Walls	45	21-Jul-08	22-Sep-08
439	Deck	50	16-Sep-08	24-Nov-08
449	Bridge Finishes	60	23-Sep-08	16-Dec-08
Russell Road Retaining Walls (W3 and W4)		333	07-Apr-08	29-Jul-09
10660	Issue Construction Drawings	0		07-Apr-08*
107	Site Clearance	20	07-May-08	04-Jun-08
250	Demolish Existing Buildings	50	05-Jun-08	14-Aug-08
338	Temporary Access Road	15	08-Aug-08	28-Aug-08
348	Bored Piling	15	29-Aug-08	18-Sep-08
370	Pile Caps	30	07-Nov-08	19-Dec-08
659	Retaining Wall	45	05-Jan-09	06-Mar-09
669	Waterproofing	20	09-Mar-09	03-Apr-09
679	Imported Fill	55	23-Mar-09	10-Jun-09
689	Parapet	25	20-May-09	24-Jun-09
699	Road Reinstate	25	25-Jun-09	29-Jul-09
Murrayfield Tram Stop Retaining Wall (W18)		274	07-Apr-08	05-May-09
10740	Issue Construction Drawings	0		07-Apr-08*
108	Site Clearance	20	07-May-08	04-Jun-08
182	Foundations	15	05-Jun-08	25-Jun-08
217	Reinforced Earth Wall	130	19-Jun-08	19-Dec-08
418	Coping	15	05-Jan-09	23-Jan-09
428	Handrail	10	26-Jan-09	06-Feb-09
440	Steps	85	05-Jan-09	05-May-09
Trackwork (470m)		291	24-Jul-08	16-Sep-09
10180	Issue Construction Drawings	0		24-Jul-08*
1029	Bulk Excavation - Sub Base	10	25-Jun-09	08-Jul-09
1039	OLE Foundations - Drainage	19	09-Jul-09	05-Aug-09
1049	CBM- Ducts	5	06-Aug-09	12-Aug-09
1059	Track Laying	10	13-Aug-09	26-Aug-09
253	Track Finishes	5	27-Aug-09	02-Sep-09
540	Fencing	10	03-Sep-09	16-Sep-09
Murrayfield Tram Stop		730	28-Sep-07	13-Aug-10
10460	Issue Construction Drawings	0		28-Sep-07*
105	Civil Engineering and Building Works	65	13-Aug-09	11-Nov-09
228	Order REC Supply	0	10-Sep-09	
A2030	Deliver and Install Shelter	10	22-Oct-09	05-Nov-09
A5078	Access for visual inspection for E&M Tram Stop installation (05A Murrayfield)	0	06-Oct-09	
A5079	Access for E&M Tram Stop installation (05A Murrayfield)	0	05-Nov-09	
A5080	Install LV Power Supply and LV Power Equipment	25	05-Nov-09	11-Dec-09
A5090	Install Telecon Equipment	20	11-Dec-09	22-Jan-10
A5100	Install Station Control Equipment + AFC Equipment	25	11-Dec-09	29-Jan-10
A5110	Package Test Tramstop	5	29-Jan-10	05-Feb-10
A6270	Installation of SIG-interlocking cubicle	15	19-Nov-09	10-Dec-09
A6280	Commissioning of SIG -interlocking cubicle	5	09-Aug-10	13-Aug-10
Murrayfield (exc.) to Balgreen Road (inc.)		704	28-Sep-07	08-Jul-10
Rosebum Street Viaduct (S21A)		470	05-Mar-08	12-Jan-10
10750	Issue Construction Drawings	0		05-Mar-08*



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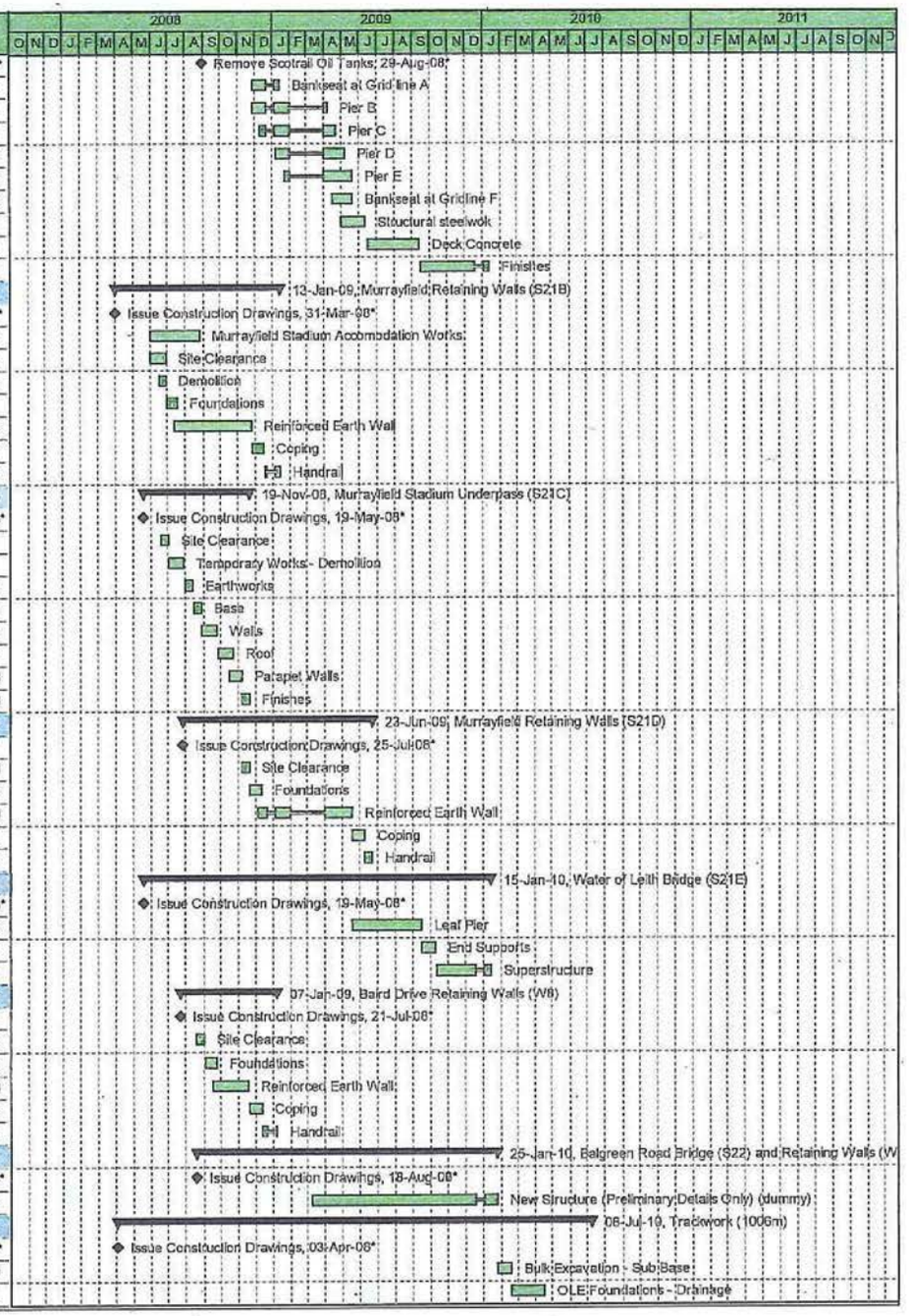
Activity ID	Activity Name	Original Duration	Start	Finish
10751	Remove Scotrail Oil Tanks	0		29-Aug-08*
109	Bankseat at Grid line A	25	25-Nov-08	13-Jan-09
172	Pier B	45	25-Nov-08	07-Apr-09
207	Pier C	45	10-Dec-08	22-Apr-09
398	Pier D	45	07-Jan-09	07-May-09
408	Pier E	45	21-Jan-09	21-May-09
420	Bankseat at Gridline F	25	16-Apr-09	21-May-09
430	Structural steelwok	30	30-Apr-09	12-Jun-09
729	Deck Concrete	65	15-Jun-09	14-Sep-09
739	Finishes	75	15-Sep-09	12-Jan-10
Murrayfield Relaining Walls (S21B)		199	31-Mar-08	13-Jan-09
10700	Issue Construction Drawings	0		31-Mar-08*
10760	Murrayfield Stadium Accomodation Works	60	02-Jun-08*	25-Aug-08
110	Site Clearance	20	02-Jun-08*	27-Jun-08
197	Demolition	10	16-Jun-08	27-Jun-08
378	Foundations	15	30-Jun-08	18-Jul-08
388	Reinforced Earth Wall	95	14-Jul-08	24-Nov-08
400	Coping	15	25-Nov-08	16-Dec-08
410	Handrail	10	17-Dec-08	13-Jan-09
Murrayfield Stadium Underpass (S21C)		129	19-May-08	19-Nov-08
10720	Issue Construction Drawings	0		19-May-08*
112	Site Clearance	10	18-Jun-08	01-Jul-08
187	Temporary Works - Demolition	20	02-Jul-08	29-Jul-08
358	Earthworks	10	30-Jul-08	13-Aug-08
368	Base	10	14-Aug-08	27-Aug-08
380	Walls	20	28-Aug-08	24-Sep-08
390	Roof	20	25-Sep-08	22-Oct-08
709	Parapet Walls	15	16-Oct-08	05-Nov-08
719	Finishes	10	06-Nov-08	19-Nov-08
Murrayfield Retaining Walls (S21D)		231	25-Jul-08	23-Jun-09
10730	Issue Construction Drawings	0		25-Jul-08*
111	Site Clearance	10	06-Nov-08	19-Nov-08
438	Foundations	15	20-Nov-08	11-Dec-08
448	Reinforced Earth Wall	65	05-Dec-08	18-May-09
450	Coping	15	19-May-09	09-Jun-09
460	Handrail	10	10-Jun-09	23-Jun-09
Water of Leith Bridge (S21E)		420	19-May-08	15-Jan-10
10770	Issue Construction Drawings	0		19-May-08*
113	Leaf Pier	84	19-May-09	15-Sep-09
639	End Supports	18	16-Sep-09	09-Oct-09
649	Superstructure	59	12-Oct-09	15-Jan-10
Baird Drive Retaining Walls (W8)		117	21-Jul-08	07-Jan-09
10690	Issue Construction Drawings	0		21-Jul-08*
114	Site Clearance	10	20-Aug-08	02-Sep-08
458	Foundations	15	03-Sep-08	23-Sep-08
468	Reinforced Earth Wall	45	17-Sep-08	18-Nov-08
470	Coping	15	19-Nov-08	10-Dec-08
480	Handrail	10	11-Dec-08	07-Jan-09
Balgreen Road Bridge (S22) and Retaining Walls (W9)		363	18-Aug-08	25-Jan-10
10710	Issue Construction Drawings	0		18-Aug-08*
115	New Structure (Preliminary Details Only) (dummy)	215	10-Mar-09	25-Jan-10
Trackwork (1006m)		574	03-Apr-08	08-Jul-10
10060	Issue Construction Drawings	0		03-Apr-08*
1009	Bulk Excavation - Sub Base	18	26-Jan-10	18-Feb-10
1019	OLE Foundations - Drainage	40	19-Feb-10	16-Apr-10



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Activity ID	Activity Name	Original Duration	Start	Finish
243	CBM - Ducts	13	19-Apr-10	05-May-10
530	Tracklaying	20	07-May-10	04-Jun-10
989	Track Finishes	5	07-Jun-10	11-Jun-10
999	Fencing	19	14-Jun-10	08-Jul-10
Balgreen Road Tram Stop		372	30-Jun-08	18-Dec-09
10790	Issue Construction Drawings	0		30-Jun-08*
117	Civil Engineering and Builders Work	65	06-Jul-09	05-Oct-09
328	Order REC Supply	0	06-Aug-09	
A2300	Deliver and Install Shelter	10	17-Sep-09	01-Oct-09
A5118	Access for visual inspection for E&M Tram Stop installation (05A Balgreen Road)	0	01-Sep-09	
A5119	Access for E&M Tram Stop installation (05A Balgreen Road)	0	01-Oct-09	
A5120	Install LV Power Supply and LV Power Equipment	25	01-Oct-09	05-Nov-09
A5130	Install Telecon Equipment	20	05-Nov-09	04-Dec-09
A5140	Install Station Control Equipment + AFC Equipment	25	05-Nov-09	11-Dec-09
A5150	Package Test Tramstop	5	11-Dec-09	18-Dec-09
Jenners Depository Sub Station		576	28-Sep-07	11-Jan-10
12600	Issue Construction Drawings	0		28-Sep-07*
286	Order REC supply from Scottish Power	0	15-Jun-09	
296	Civil Engineering and Building Works	65	06-Jul-09	05-Oct-09
A2278	Access for visual inspection for E&M Substation installation (05A Jenners Depositor	0	04-Sep-09	
A2279	Access for E&M Substation installation (05A Jenners Depository)	0	06-Oct-09	
A5830	Power Infeed from Public Net available inc HV cable	0	06-Oct-09	
A5840	Install LV Power Supply and LV Power Equipment	15	06-Oct-09	26-Oct-09
A5850	Installation of TPS Equipment	30	27-Oct-09	08-Dec-09
A5860	Install Telecom and Scada	15	17-Nov-09	08-Dec-09
A5870	Testing and Commissioning	14	09-Dec-09	11-Jan-10
05B Balgreen Road (exc.) to Edinburgh Park (inc.)		463	05-Feb-08	01-Dec-09
E & M Installations		104	02-Jun-09	27-Oct-09
A4123	Access for visual inspection for E&M wayside installation (05B)	0	02-Jun-09	
A4124	Access for E&M wayside installation (05B)	0	24-Jun-09	
A4125	Installation of poles and building fixings	36	24-Jun-09	29-Jul-09
A4130	Overhead Catenary Line	87	30-Jul-09	24-Oct-09
A4138	Access for visual inspection to cable pits for cable laying (05B)	0	18-Jul-09	
A4139	Access to cable pits for cable laying (05B)	0	09-Aug-09	
A4140	Install Electrical Cables	40	09-Aug-09	17-Sep-09
A4150	Install Fibre Optic Cables	40	09-Aug-09	17-Sep-09
A4160	Install Signalling Wayside Equipment	40	18-Sep-09	27-Oct-09
Balgreen Road (exc.) to Saughton Road North (inc.)		463	05-Feb-08	01-Dec-09
Carricknowe Bridge (S23)		206	16-Jul-08	11-May-09
10810	Issue Construction Drawings	0		16-Jul-08*
Carrick Knowe disruptive possessions		187	15-Aug-08	11-May-09
Establishment		186	15-Aug-08	09-May-09
12	Temporary Fencing	5	15-Aug-08	21-Aug-08
13	Haul Roads	5	15-Aug-08	21-Aug-08
24	Possessions 1 (12hrs)	0	22-Aug-08	
A15	Possessions 2 (12hrs)	0	25-Aug-08	
B14	Erect Network Rail Safety Barrier	2	22-Aug-08	25-Aug-08
C13	Possessions 4 (12hrs)	0		09-May-09
C14	Remove Crash Deck and Barriers	1	07-May-09	07-May-09
North Abutment		122	22-Aug-08	16-Feb-09
Excavate and Blind		9	22-Aug-08	04-Sep-08
105	Excavate	4	29-Aug-08	03-Sep-08
16	Blinding	1	04-Sep-08	04-Sep-08
96	Temporary Support to Railway Lines	5	22-Aug-08	28-Aug-08
Base Construction		9	05-Sep-08	17-Sep-08

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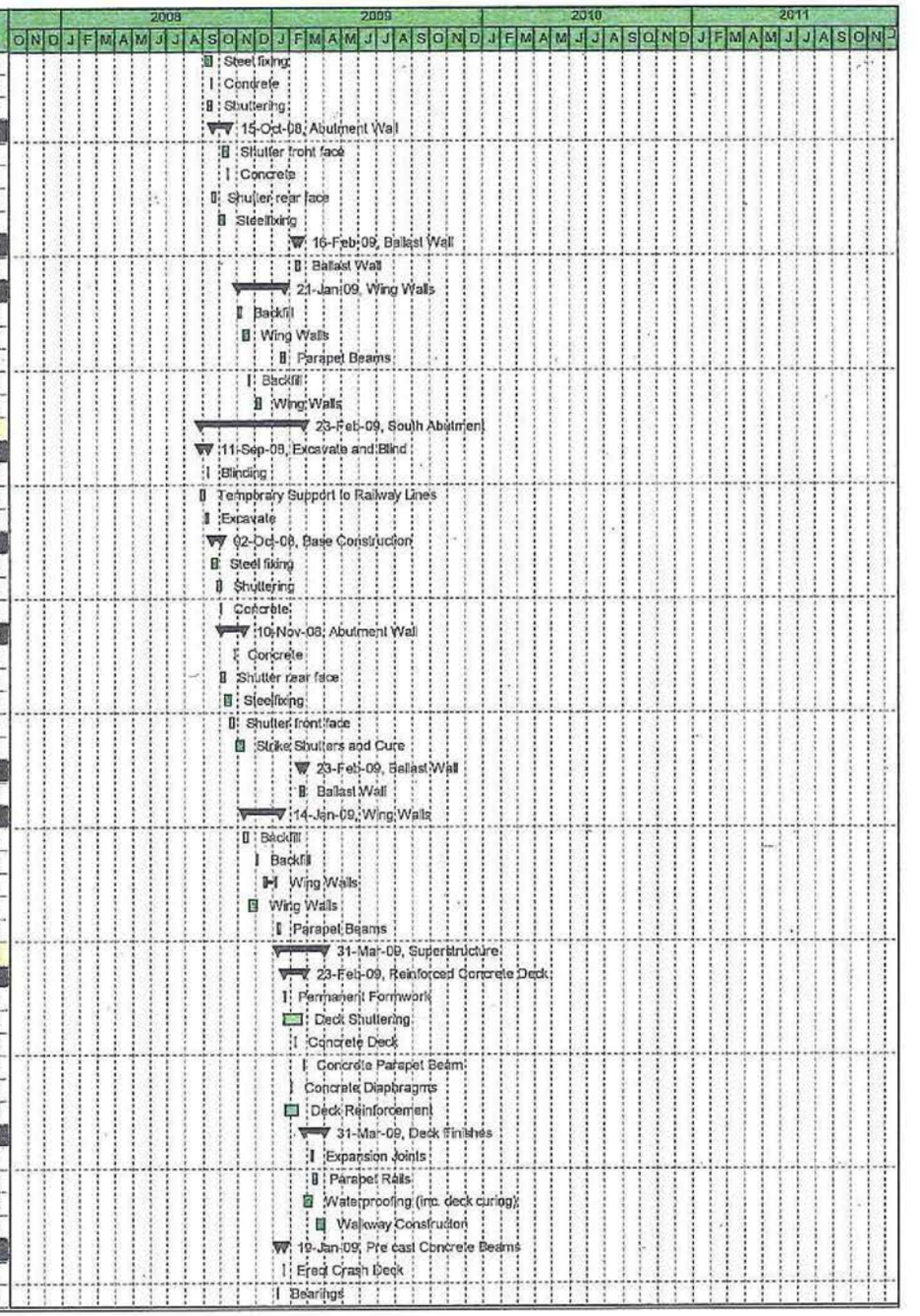
Activity ID	Activity Name	Original Duration	Start	Finish
37	Steel fixing	8	05-Sep-08	16-Sep-08
7	Concrete	1	17-Sep-08	17-Sep-08
87	Shuttering	5	10-Sep-08	16-Sep-08
Abutment Wall		20	18-Sep-08	15-Oct-08
128	Shutter front face	6	07-Oct-08	14-Oct-08
28	Concrete	1	15-Oct-08	15-Oct-08
38	Shutter rear face	5	18-Sep-08	24-Sep-08
58	Steelfixing	8	29-Sep-08	08-Oct-08
Ballast Wall		5	10-Feb-09	16-Feb-09
A10	Ballast Wall	5	10-Feb-09	16-Feb-09
Wing Walls		54	03-Nov-08	21-Jan-09
69	Backfill	5	03-Nov-08	07-Nov-08
A14060	Wing Walls	8	10-Nov-08	19-Nov-08
A14070	Parapet Beams	5	15-Jan-09	21-Jan-09
A14080	Backfill	2	20-Nov-08	21-Nov-08
A14090	Wing Walls	6	03-Dec-08	12-Dec-08
South Abutment		122	29-Aug-08	23-Feb-09
Excavate and Blind		9	29-Aug-08	11-Sep-08
116	Blinding	1	11-Sep-08	11-Sep-08
206	Temporary Support to Railway Lines	5	29-Aug-08	04-Sep-08
236	Excavate	4	05-Sep-08	10-Sep-08
Base Construction		12	17-Sep-08	02-Oct-08
177	Steel fixing	8	17-Sep-08	26-Sep-08
237	Shuttering	5	25-Sep-08	01-Oct-08
97	Concrete	1	02-Oct-08	02-Oct-08
Abutment Wall		27	03-Oct-08	10-Nov-08
688	Concrete	1	27-Oct-08	27-Oct-08
698	Shutter rear face	5	03-Oct-08	09-Oct-08
708	Steelfixing	8	09-Oct-08	20-Oct-08
718	Shutter front face	6	17-Oct-08	24-Oct-08
A14040	Strike Shutters and Cure	10	28-Oct-08	10-Nov-08
Ballast Wall		5	17-Feb-09	23-Feb-09
A14050	Ballast Wall	5	17-Feb-09	23-Feb-09
Wing Walls		43	11-Nov-08	14-Jan-09
89	Backfill	5	11-Nov-08	17-Nov-08
A1012	Backfill	2	03-Dec-08	04-Dec-08
A1015	Wing Walls	8	15-Dec-08	07-Jan-09
A14100	Wing Walls	8	20-Nov-08	02-Dec-08
A14110	Parapet Beams	5	08-Jan-09	14-Jan-09
Superstructure		59	08-Jan-09	31-Mar-09
Reinforced Concrete Deck		26	19-Jan-09	23-Feb-09
104	Permanent Formwork	4	19-Jan-09	22-Jan-09
245	Deck Shuttering	25	19-Jan-09	20-Feb-09
247	Concrete Deck	1	09-Feb-09	09-Feb-09
257	Concrete Parapet Beam	1	23-Feb-09	23-Feb-09
27	Concrete Diaphragms	1	02-Feb-09	02-Feb-09
285	Deck Reinforcement	15	23-Jan-09	12-Feb-09
Deck Finishes		26	24-Feb-09	31-Mar-09
59	Expansion Joints	1	10-Mar-09	10-Mar-09
70	Parapet Rails	5	11-Mar-09	17-Mar-09
728	Waterproofing (inc. deck curing)	10	24-Feb-09	09-Mar-09
80	Walkway Constructon	10	18-Mar-09	31-Mar-09
Pre cast Concrete Beams		8	08-Jan-09	19-Jan-09
193	Erect Crash Deck	1	19-Jan-09	19-Jan-09
32	Bearings	2	08-Jan-09	09-Jan-09



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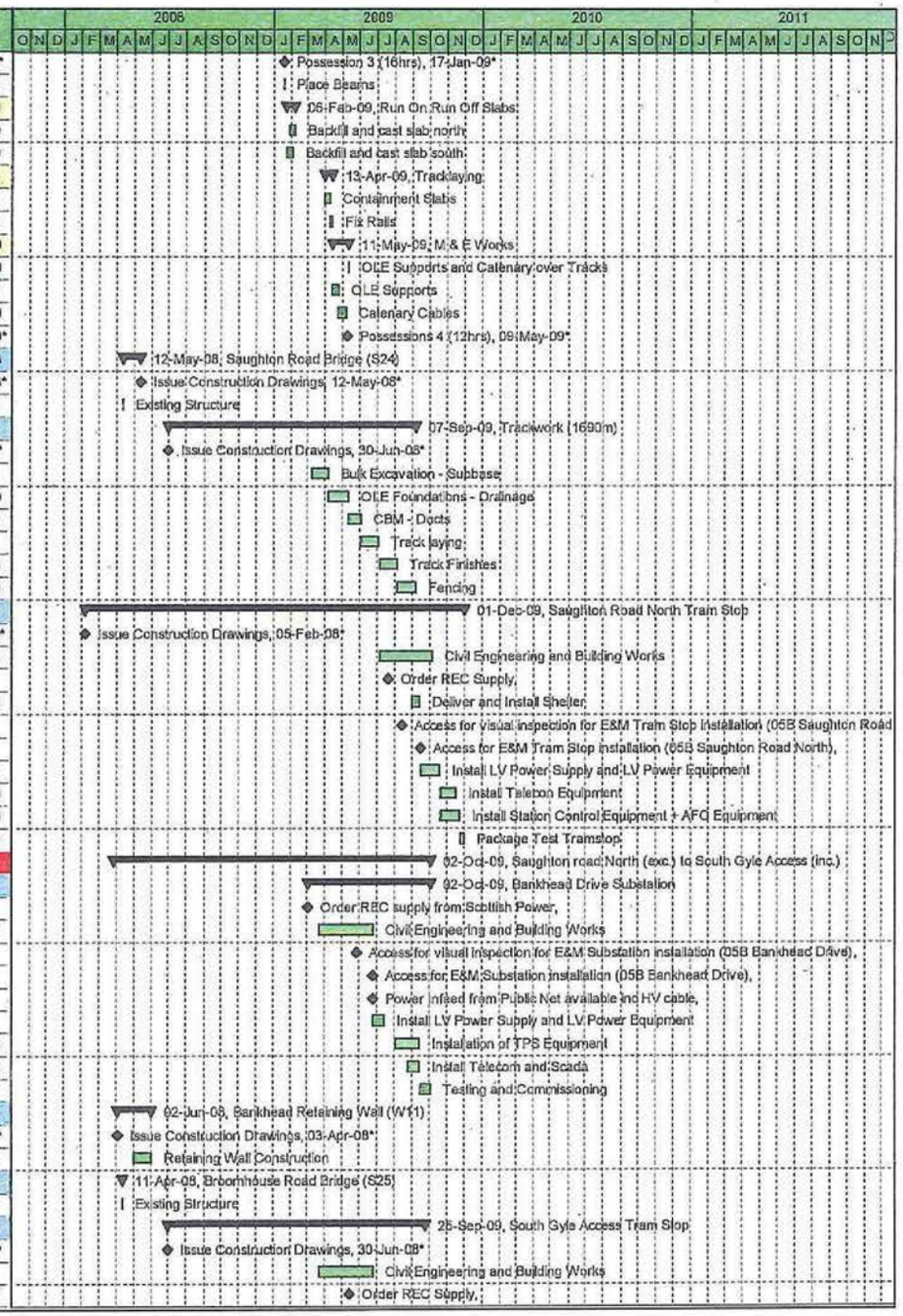
Activity ID	Activity Name	Original Duration	Start	Finish
63	Possession 3 (16hrs)	0		17-Jan-09*
93	Place Beams	1	18-Jan-09	18-Jan-09
Run On Run Off Slabs		12	22-Jan-09	06-Feb-09
275	Backfill and cast slab north	8	28-Jan-09	06-Feb-09
34	Backfill and cast slab south	8	22-Jan-09	02-Feb-09
Tracklaying		11	30-Mar-09	13-Apr-09
44	Containment Slabs	8	30-Mar-09	08-Apr-09
45	Fix Rails	2	09-Apr-09	13-Apr-09
M & E Works		20	14-Apr-09	11-May-09
265	OLE Supports and Catenary over Tracks	1	11-May-09	11-May-09
64	OLE Supports	8	14-Apr-09	23-Apr-09
75	Catenary Cables	8	24-Apr-09	06-May-09
94	Possessions 4 (12hrs)	0		09-May-09*
Saughton Road Bridge (S24)		22	11-Apr-08	12-May-08
10820	Issue Construction Drawings	0		12-May-08*
121	Existing Structure	1	11-Apr-08	11-Apr-08
Trackwork (1690m)		301	30-Jun-08	07-Sep-09
12830	Issue Construction Drawings	0		30-Jun-08*
233	Bulk Excavation - Subbase	20	10-Mar-09	06-Apr-09
520	OLE Foundations - Drainage	23	07-Apr-09	11-May-09
949	CBM - Ducts	15	12-May-09	02-Jun-09
959	Track laying	23	03-Jun-09	03-Jul-09
969	Track Finishes	22	06-Jul-09	05-Aug-09
979	Fencing	23	06-Aug-09	07-Sep-09
Saughton Road North Tram Stop		463	05-Feb-08	01-Dec-09
10840	Issue Construction Drawings	0		05-Feb-08*
123	Civil Engineering and Building Works	65	06-Jul-09	05-Oct-09
248	Order REC Supply	0	20-Jul-09	
A2080	Deliver and Install Shelter	10	01-Sep-09	14-Sep-09
A5158	Access for visual inspection for E&M Tram Stop installation (05B Saughton Road N	0	14-Aug-09	
A5159	Access for E&M Tram Stop installation (05B Saughton Road North)	0	15-Sep-09	
A5160	Install LV Power Supply and LV Power Equipment	25	15-Sep-09	19-Oct-09
A5170	Install Telecon Equipment	20	20-Oct-09	16-Nov-09
A5180	Install Station Control Equipment + AFC Equipment	25	20-Oct-09	23-Nov-09
A5190	Package Test Tramstop	5	24-Nov-09	01-Dec-09
Saughton road North (exc.) to South Gyle Access (inc.)		386	27-Mar-08	02-Oct-09
Bankhead Drive Substation		152	02-Mar-09	02-Oct-09
256	Order REC supply from Scottish Power	0	02-Mar-09	
266	Civil Engineering and Building Works	65	23-Mar-09	24-Jun-09
A2258	Access for visual inspection for E&M Substation installation (05B Bankhead Drive)	0	26-May-09	
A2259	Access for E&M Substation installation (05B Bankhead Drive)	0	25-Jun-09	
A5880	Power Infeed from Public Net available inc HV cable	0	25-Jun-09	
A5890	Install LV Power Supply and LV Power Equipment	15	25-Jun-09	15-Jul-09
A5900	Installation of TPS Equipment	30	04-Aug-09	14-Sep-09
A5910	Install Telecom and Scada	15	25-Aug-09	14-Sep-09
A5920	Testing and Commissioning	14	15-Sep-09	02-Oct-09
Bankhead Retaining Wall (W11)		41	03-Apr-08	02-Jun-08
10850	Issue Construction Drawings	0		03-Apr-08*
127	Retaining Wall Construction	20	02-May-08	02-Jun-08
Broomhouse Road Bridge (S25)		1	11-Apr-08	11-Apr-08
125	Existing Structure	1	11-Apr-08	11-Apr-08
South Gyle Access Tram Stop		314	30-Jun-08	25-Sep-09
12870	Issue Construction Drawings	0		30-Jun-08*
129	Civil Engineering and Building Works	65	23-Mar-09	24-Jun-09
318	Order REC Supply	0	13-May-09	



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