





EDINBURGH TRAM NETWORK INFRACO CONTRACT

PERIOD REPORT No 4 & 5 TO 16 AUGUST 2008







CONTENTS

1	Executive Summary
2 2.1 2.2 2.3 2.4 2.5	HSQE Management Health & Safety Quality Environment Management System / Deliverables KPIs
3 3.1 3.2 3.3 3.4 3.5 3.6	Programme Contract Programme status Look Ahead programme Design and Consents Programme Status Tramco Programme Status Critical Impact Notices Milestones
4 4.1 4.2 4.3 4.4 4.5 4.6 4.7	Progress Mobilisation Engineering Civil & Building Works E&M Systems Trams Testing, Commissioning and Start-up Delays and Recovery Action
5	tie Obligations
6	Stakeholder and Third Party Issues
7 7.1 7.2 7.3	Commercial Milestones Changes/Instructions/Departures Risks and Opportunities
8	Resources
9	Other Issues
10.1 10.2 10.3 10.4 10.5 10.6 10.7	Appendices KPI Report Programme Update Look-Ahead Programme Tram Programme Civil Works Procurement Report Change Register Organisation Charts







1 EXECUTIVE SUMMARY

Health, Safety and Environment

The Construction Phase Health and Safety Plan has been approved. No accidents or incidents have occurred in the period.

Mobilisation

Mobilisation is now well advanced. In the period the Consortium Project Office has been built and is currently being fitted out. It is anticipated that the communications and network will be "live" by mid September and that staff will move from Lochside House shortly thereafter. There is a potential further delay in the provision of the main FO cable which would delay the move and we are in discussions with BT on this matter

Personnel

Staff recruitment and deployment is progressing and key personnel are in place to progress the available work.

Deliverables and Submissions

Production of management plan deliverables, construction control and safety documentation and Employer's Requirements documentation is in progress, and will accelerate in the next period as newly mobilised personnel become effective.

Programme

A revision to the Construction Programme is in progress to take account of delays resulting largely from Consents and MUDFA delays. Consents delays are as illustrated by V34 of the Design Delivery Programme. Agreement to an entitlement to extension of time arising from these delays, including those elements of delay attributable to the Design Delivery Programme in the Novation Agreement (V31) is urgently required. It is anticipated that the Programme revision will assist in coming to agreement by the end of August. The Programme uncertainty continues to be an impediment to procurement and project management

Design

Progress on the design has been made in the period, but continuing uncertainty in some critical areas, and lack of progress on some critical approvals, is likely to impact procurement and construction commencement. Alignment of BSC design with the base design has continued in the period. Uncertainty over payment for SDS resources allocated to Construction Support continues to cause considerable concern and must be resolved urgently to ensure these experienced staff remain available to the project.

The Systems design team have continued to make progress on the basis of available base design information. There are still areas of unapproved track alignment and OLE/power drawings and the lack of IFC information means that the risk of rework and delay still exists. This situation is being closely monitored and will be the subject of further discussion in the next period, to minimise risk and optimise progress.







Approval for Auto-Tensioned OLE throughout the ETN will enable us to make good progress on the design in the next period.

Agreement to our proposals on Network Rail Immunisation will also facilitate progress.

Procurement

Procurement of civil package subcontractors has continued in the period, and closure of packages for the depot and section 7 is anticipated by end August subject to Main Contract resolution of extension of time. Available initial works and long lead procurement is being carried out on limited instruction, such that delay to construction start is minimised. The main example of this, in the period, is the negotiation of a letter of intent to Farrans for the Gogarburn Bridge. Resolution of contract programme uncertainty is required urgently, to ensure effective procurement of Package Contracts and other sub-contracts and management of these once they are in place.

Systems and Tram procurement activities have continued, with selection of key suppliers and securing of manufacturing timetables in progress. BAM Rail continue with rail procurement. Finalisation of IFC design is required urgently to allow other detailed design and long lead procurement, such as traction power sectioning and manufacture of S&C (points) to move forward.

Works

Site accesses, road crossings, demolition and site investigation have all progressed in the period along with the building of the Consortium Project Office as noted above.

Commercial

BSC's commercial team has been increased in the period and continue to and manage procurement, contract financial procedures and change. The number and volume of design change issues, together with the significant effort required to satisfy the ongoing commitment to achieving Value Engineering savings where possible, continues to be the most demanding workload for the team. In the period a number of instructions for design changes to accommodate services have been issued. The Change team will be assessing the effects of this over the next period. They are likely to have a significant effect on the programme.

Other

A useful and informative visit to Berlin took place in the period to see the Rheda Trackform installation process.







2 HSQE MANAGEMENT

2.1 Health & Safety

2.1.1 Safety Management, including CDM

The Construction Phase Health and Safety Plan Revision 3 was issued to **tie** on 9th July and addressed previous comments. The plan was accepted by **tie** on 14th July 2008.

A BSC Safety procedures training seminar is planned for the end of August.

Network Rail Construction Phase Plan

The Plan was issued to Network Rail on 18th July. Meeting to be arranged with Network Rail to discuss their comments and obtain acceptance of the Plan.

2.1.2 Accidents & Incidents

No accidents during period 4.

There have been no accidents between the end of period 4 up to 1st August 2008

Two Near Misses reported in the period on the project. No reportable incidents in the period. AFR for the first four periods is 0.00.

The total number of hours worked in period 4 was 22,683.

Non Site Hours = 18,100 Site Hours = 4,583

Breakdown of Site Hours
Parsons Brinckerhoff 1,238
BSC 610
Subcontractors 2,735

2.1.3

Tie in conjunction with the HSE held a Seminar on Occupational Health for all Infraco and Mudfa contractors involved on the project. All attendees regarded the seminar as very worthwhile.

2.2 Quality

2.2.1 Quality Management

The Project Management Plan (including Project Quality Plan) was issued to **tie** on 11th July. No comments received from tie.

No Inspection and Test Plans have yet been formally submitted to tie.

The implementation of a solution to address the requirement for project collaboration and project control through BIW is ongoing. Following introductory training BIW went







live for BSC and SDS on 31st July. It is anticipated **tie** will have access within the next few weeks.

Quality Management System training sessions for new staff is ongoing.

2.2.2 NCR's

NCR raised by tie at Caley Ale House for lack of dust suppression as per agreed Work Package Plan. Proposed actions implemented and NCR closed out.

2.2.3 Audit

An assessment audit was carried out on Farrans on 30th July. An assessment audit on Barr is in the process of being arranged.

A Link up version 2 audit (on BBUK's Rail Management System) was carried out over $23^{rd}~\&~24^{th}~July$.

A BSC 'site set up' audit is planned for mid August.

2.2.4 Trend Analysis

Nothing to report at present

2.3 Environment

2.3.1 Environmental Management

The initial issue Construction Phase Project Environmental Management Plan was rejected by **tie.** The Revised Plan to be submitted w/c 4th August.

An Edinburgh Tram specific template is being developed for the Site Specific Environmental Management Plans.

KN Services have been contracted to advise on elements of survey works to supply appropriate spill equipment for control and spill response.

2.3.2 Issues

There were no Environmental Events reported in the period on the project.

2.4 Management System / Deliverables

2.4.1 Management System

The Rail Management System has been revised to satisfy the requirements of Link Up Version 2. Procedure and form updates were issued to the BSC Management system on 18th July 2008.







2.4.2 Deliverables prior to construction commencement.

Project Management Plan

Revised plan issued 11th July. Awaiting comment from tie.

Construction Health and Safety Plan

Accepted by tie 14th July.

Construction Management Plan

Contained within Section 16 of the Project Management Plan.

Network Rail Interface Plan

Covered by the Network Rail Construction Phase Plan which is addressed under 2.1 Health & Safety.

Quality Management Plan

This forms part of the Project Management Plan

Traffic Management Plan

Issued 11th July within Section 20 of the Project Management Plan.

2.5 KPI's

KPI spreadsheet for Period 4 was submitted to **tie** on 22nd July along with associated notes; a further copy is attached as Appendix 10.1.







3 PROGRAMME

3.1 Contract Programme Status

The programme, attached to this report, has two baselines. One baseline shows the original Contract Programme (which is based on V26 of the SDS Design Programme) and one which updates the IFC dates in line with version 31 of the SDS Design Programme. The second baseline has been produced without any changes being made to the original logic of the contract programme.

Progress achieved up to 01 August 2008 has then been recorded against the above baselines including inputting the latest IFC dates received from SDS (V34). The links between the Advanced Works Contract activities and the activity "Award of Contract" have been removed to prevent ay erroneous effect occurring due to none completion of Advanced Work items. The links between design and OLE base construction and track electrification —dispatch and OLE pole erection have also been adjusted to prevent delays being shown.

No revised MUDFA programme has been received and therefore where MUDFA completions were shown as being completed before the 01 August 2008 they are now defaulting to the data date.

The result is the following changes to Section Completion Dates:

	21 June Update	21 June 2008	29 April 2008
Α	04 June 2010	26 May 2010	25 March 2010
В	20 July 2010	15 July 2010	09 May 2010
C	16 May 2011	19 April 2011	17 January 2011
D	13 November 2011	17 October 2011	16 July 2011

The above slippage is a direct consequence of incorporating design programmes V31 and V34 into the contract programme. The period change in sectional completion dates predominately results from the need to undertake redesign at South Gyle Access Bridge and hence delay its construction. It should be feasible to mitigate some of this delay by resequencing the trackwork associated with this section of the works.

Programme update attached as Appendix 10.2

3.2 Look Ahead Programmes

The 3 month look ahead programme takes the above update to the contract programme and as well as adding further detail makes a number of assumptions to be able to provide a working programme of the activities to be undertaken in the next 3 months. The following points should be noted.

 As reported last period, roadworks now start in Leith Walk on 1 September due to the IFC date of section 1B now being predicted to slip to 31 July 2008. It is proposed that these works commence with CH 100 to 350 and not the Foot of the Walk junction as originally programmed.







- It is assumed that construction of Haymarket Viaduct can commence without the completion of the new Station Car Park Access Road.
- Commencement of Haymarket Viaduct is dependent on approval of our Works Package Plan by Network Rail.
- An IFC date for the Scotrail Depot Car Park has been added for 19 September 2008
- The IFC for Murrayfield Tram Stop Retaining Wall has been put back to the end
 of August (V34 14 July 2008) because we understand CEC have rejected the
 current design.
- The commencement of Russell Road Bridge, Murrayfield Stadium Retaining Wall (S21B), Carrick Knowe Bridge, Bankhead Drive Retaining Wall, South Gyle Access Bridge and Edinburgh Park Viaduct are dependent upon Network Rail Form C approvals, the temporary works design and associated ground investigation is currently being progressed.
- The programme for South Gyle Access Bridge (and the connected Bankhead Drive Retaining Wall) assumes the instructed redesign to relocate the piles to avoid an existing sewer will be completed by 8 August 2008.
- The programme does not include for the potential change order to relocate the street lighting cables at South Gyle Access Bridge.
- The programme does not include for the potential change order to relocate the high voltage electric cable running through the proposed location of the north abutment at Carrick Knowe Bridge.
- The commencement of works at Gyle Tram Stop Retaining Wall is dependent upon and assumes MUDFA will be complete in this area by 29 August 2008.
- A8 underpass is programmed to commence on 28 August 2008 following receipt of IFC on 30 July 2008 and assumes that MUDFA will have removed all conflicting traffic management by this date.
- MUDFA is assumed to be completed in the depot area by 1 September 2008 which will allow excavation to commence.
- The initial material excavated from the depot will be hauled to the surcharged embankment in area 7.
- We await details of the Murrayfield Accommodation Works which were programme to be completed in the SRU close season.
- IFC drawings for the hotel car park (Section 7) are assumed to be available by 12 August 2008.
- The programme does not include for the sewer diversion works at Gogarburn Bridge.

Look Ahead Programme attached as Appendix 10.3

3.3 Design and Consents Programme Status

A further tie / BSC meeting has been held to consider the effects of V31 and other delays to the contract programme. A timetable has been established to agree a revised programme by the end of August 2008.

Delays and disruption due to design changes and CEC late responses are to be included into the programme and submitted for approval. Prioritisation programme agreed with CEC regarding Technical Approvals Roads







3.4 Tramco Programme Status

Tram design, procurement, manufacturing, delivery and commissioning programme attached as Appendix 10.4.

3.5 Critical Impact Notices

The following present potential risks to the programme:

Completion of MUDFA works.

We do not have a copy of the current MUDFA programme and its effect, if any, cannot therefore be analysed against the contract programme. To assist our short term planning we have to assume a number of completion dates as noted above.

IFC dates post V31

We are still experiencing slippage to the programme as the result of the projected late release of IFC drawings.

Track /Roads Alignment Issues

We are programmed to commence roadworks on Leith Walk on 1 September 2008. However our current programme does not include for full reconstruction.

Transfer of MUDFA Works to INFRACO

We are aware of utility diversions required at South Gyle Access Bridge, Carrick Knowe and Gogarburn Bridge that will effect the commencement of these structures.

Network Rail Form C Implications

The Murrayfield structures and Bankhead Drive Retaining Wall post design freeze drawings now include a considerable element of temporary works. These structures will be prolonged both for the time taken to construct the temporary works and the associated Network Rail Form C approval

Murrayfield Accommodation Works

We understand that the third party agreement with the SRU is still to be signed. The associated accommodation works were programmed to be undertaken between June and August 2008 to allow construction of Structure 21B and access to 21E. If this work has to be delayed until next summer it will have a critical effect on the programme.

TTRO / TRO Conflict

We understand CEC believe that TTRO's cannot mirror the final TRO that is required for the operation of the Tram. However in some instances there will be sections of the work completed before the TRO is in place. For example, Shandwick Place Tram stop will form an obstruction to the current flow of traffic until the TRO is in place that means only Buses and Trams run along Shandwick Place. A significant prolongation of the contract would occur if works had to be delayed until the TRO was in place.

By geographical area the issues are as follows:

Section 7;

- The construction of Burnside Road for BAA.
- Location of Airport Tramstop.
- RBS requirements for Gogarburn Tramstop.
- Archaeological Works obstruction to INFRACO.







· MUDFA Completion date.

Section 6:

- Completion of the 800 diameter water main diversion.
- Completion of other MUDFA works.

Section 6 / 5C;

- 1500 Sewer diversion.
- Consortium Offices.

Section 5C;

- MUDFA completion.
- A8 Underpass value engineering.

Section 5B:

- Edinburgh Park Viaduct value engineering.
- MUDFA completion.
- Transfer of MUDFA works to INFRACO

Section 5A;

- SRU 3rd Part Agreement completion.
- SRU Accommodation Works.
- · Roseburn Street Viaduct value Engineering.
- Scot Rail Depot (Oil Tanks etc.).
- MUDFA completion.

Section 2;

• Caledonian Ale House demolition

Sections 1D, 1C, 1B, 1A;

· Alignment of pavement design with INFRACO bid.

Timely resolution of the aforementioned issues is essential to achieve the programme as currently presented.

3.6 Milestones

No comments on current milestone allocation/structure (see section 7.1 below for comment on milestone commercial issues)







4 PROGRESS

Programme update attached as Appendix 10.2.

Look-ahead programme attached as Appendix 10.3.

4.1 Mobilisation

4.1.1 Consortium

As Executive Summary

4.1.2 Civil & Building

As Executive Summary

4.1.3 E&M Systems

Major internal procedures like delegations, commercial basic works, procurement and meeting schedules in a fortnightly frequency filled out the past mobilisation. Due to the availability of new site office in October, Siemens extended office accommodation at Lochside House. A Team Assistant will start as in September to support team.

4.1.4 Trams

As Executive Summary

4.2 Engineering

4.2.1 Civil & Building Design

4.2.1.1 Production of Design

Substantial progress has been made in concluding the detailed design, securing outstanding approvals and consents.

All NR Approvals due to date have been granted. There is one NR approval outstanding but this is not due until December.

SDS has received a significant volume of comments on the roads technical approval packages. These have not prevented approval being granted but will demand rework of the SDS design prior to the issue of the IFC versions of the drawings. Meetings have been held with CEC to resolve the comments and all but very few of the comments are points of minor detail but will need to be addressed nevertheless.

Finalisation of the design in the Forth Ports area continues to be in delay due to the continuous cycle of change requests to the design. There is still no final agreement between CEC and Forth Ports on Bypass Road. If not quickly resolved this will fundamentally impact TRO and Ocean Terminal design. **tie** have instructed SDS to







move the design on with Rev 3 of the agreement drawings. SDS understand, however, that these issues are not formally resolved with Forth Ports and this is likely to result in objection to the Prior Approval.

The redesign of Roseburn Street Viaduct is to be instructed and will require a complete redesign of the structure taking several months to complete along with its approaches and associated approvals and consents.

To date the workshops have not identified any new significant areas of misalignment between the BSC offer and the SDS design and some further progress has been made in the identification of the potential solutions for alignment of the previously identified misalignments. These are summarised below indicating the areas of concern to be addressed: Other than these areas BSC understand there are no further amendments to the design required and will continue to progress the outstanding detailed design and associated approvals and consents to Issue for Construction status.

Structures

Roseburn Viaduct, original SDS design, was issued for IFC on target as per v31 of the programme on 25th July 2008. SDS attended two meetings with BSC on 25th and 28th July to discuss the VE opportunities moving forward. SDS have since been advised that Option A will be progressed. BSC believe that the SRU agreement was signed w/c 28th July but have not been issued the document and are not aware of the requirements or constraints which may impact this VE.

South Gyle Access Bridge is to be revisited regarding the structural design of the bridge in order to clear Scottish Water sewers in the vicinity of the sub-structure. VE investigation is ongoing.

Roads

Split into two areas, geometry and pavement design.

Geometry – The status of the roads geometry design has not changed significantly in this period regarding opportunities to modify the geometric design for roads to reduce the scope of the associated highway works by methods such as reducing the freeboard height at kerbs. The proposal produced by BSC is being reviewed by CEC and opportunities for re design to reduce the scope of the roads works have been discussed on 31st August.

Pavement design – FWD, GPR and coring is now complete. Laboratory testing is ongoing. BSC will submit an initial report by 7th September. The on-street testing was hampered by CEC and Police. Tie is to issue their design load to BSC to commence the pavement design.

Utilities

Information from **tie/**MUDFA is now concluding on CCTV sewer and manhole and sewer positions within the tramway exclusion zone and at SDS designed structures. Sewer clashes are evident from this late information in the following areas.

South Gyle Access Bridge Russell Road Access Ramp Water of Leith Bridge







The comparison of this late information has highlighted that a diversion of the sewer is no longer the best solution that the structure should be modified. SDS have submitted a Change Estimate for Russell Road Access Ramp and South Gyle Access Bridge (under instruction from BSC/tie). PB is currently reviewing the impact on Water of Leith but the current information supplied does not appear to be accurate to make an accurate judgement.

PB have submitted at the request of BSC an estimate for the redesign of Gogarburn Bridge Sewer diversion to relocate the existing sewer to inside the abutments of the structure rather than the existing proposal to locate outside adjacent to the Gogarburn.

Now in receipt of the sewer information SDS are issuing approval drawings to Scottish Water and tie for the sewer diversions. The first package of IFC drawings for sewers has been issued to tie for Section 1B.

The remaining utility diversions design consist of those areas that the infrastructure design is not confirmed to a reasonable level of certainty to allow the design to take place ie at Newhaven were **tie** are proposing an easement outside the LOD and Ocean Terminal were the kerb positions are still to be confirmed and Picardy Place were we are awaiting acceptance of design solution.

As-built records have been requested from tie in an accurate format. Submissions received so far fall short of this requirement.

Construction & Design Team Support

SDS have mobilised resources to assist BBS with the BBS detailed design support and construction design support. This team has assisted with the conversion of drawings, technical queries, and approvals and consents assistance. The team is integrating with the BBS construction team and is continuing to maintain links with CEC.

Progress has been made in agreeing the protocol for determining the size of the Construction Support Team on a monthly basis although SDS and BBS still await formal approval for the resource allocation to the project in accordance with the Novation agreement. This is urgently required to maintain the support currently being provided. The nominal size of the teams for the past period was agreed as follows;

Construction Support
Project Manager (1No)
Engineering (2no resources)
Inspectors (2no resources)
Administrator/Doc Control (1no shared with Design Support)
CAD (1no)

Design Support
Engineering (2no)
Administrator/Doc control (1no shared with Construction Support which means 1 no total between Construction and Design)
CAD (1No)

It has been agreed that additional ad-hoc support will be provided by PB as requested by BSC and tie.







In accordance with the Terms and Conditions of the Novation Agreement SDS have prepared weekly Construction/Design Support Report and weekly Design Support Team Reports.

4.2.1.2 Approvals and Consents

Total Number of Detailed Design Packages	Total Delivered	Total Outstanding	
330	310	20	
Total Number of Planning/PA/Building Warrant Packages	Total Approved	Total Remaining to be Approved	Total Remaining to be Submitted
96	54	42	16
Total Number of Technical Approval Packages	Total Approved	Total Remaining to be Approved	Total Remaining to be Submitted
115	66 with 63 approved at time of writing and 3 are due in w/c 11/8	47	11
Total Number of IFC Packages	Total Delivered	Total Outstanding	ε
115	33	82	

There is good progress towards gaining all the necessary planning and technical approvals.

From a total of 211 approvals:

55% are approved (117) 32% are pending approval (67) 12% to be submitted (27).

24 Approvals were granted during the last 4 weeks.

- Prior Approval for St Andrew Square granted.
- Technical Approval for Roads 1C1 and 1C3 (minus 1C2) granted subject to 1200+comments from CEC. SDS currently assessing 70 pages of comments.
- 1/08 Foot of the Walk Approval due.
- 1C2/ 1/12 Picardy Place ongoing work with CEC to complete modelling and technical design
- 1/17 Shandwick Place –BSC is awaiting Instruction to carry out design changes requested by CEC.







- Listed Building Consents 11 applications delayed by CEC Planning oversight in advertising applications. 9 IFCs will be delayed as a result of this additional request for time to determine these applications.
- 5/06 Murrayfield Stop. Prior Approval was submitted on 25 April but not validated until 27 May and on weekly list 2 June. IFC was due on 27.June. Design amendments required by CEC have been sketched and submitted for comment. Change estimate submitted.
- 5/07 Roseburn Viaduct/Stadium Retaining Wall works 5/10 Balgreen Bridge Stop/Baird Drive/ 522 line of Route – Prior Approval granted and IFC submitted.
- 5/30 Gogarburn Stop

 tie to instruct BBS regarding the Prior Approval application
 date. IFC critical path for construction is to be maintained.
- Roads 5B approval due on 5 August.
- Building Warrant for Depot awaiting report from CEC Building Standards on application.
- Approvals for 7/26 Culvert and 7/27 Ingliston due in the next week.
- 7/29 Airport being submitted to CEC for Informal Consultation w/c 11 August.

4.2.1.3 Issues and Concerns

There remain numerous areas where progress to complete the detailed design remains hindered/blocked.

 Delay to Murrayfield Stadium Tram Stop and Murrayfield Stop retaining walls. In accordance with Version 31 of the SDS programme, SDS submitted the Prior Approval for the Murrayfield Stop and Retaining Wall stop batch on 25 April 2008. It was validated by CEC on 27 May 2008.

The following IFC dates have not been met.

Murrayfield Stop Retaining Walls (SDS51560) 27 June.

Murrayfield Stadium Tram Stop (A26680) 27 June

CEC did not give BSC formal comments on the Batch until 8 weeks after submission (which is not as per the agreed protocol) and this has considerably affected the programme for IFC's. Any delay due to changes could have mitigated if CEC had responded in a timely manner.

Change Control is in place for this – see DCR0019.
Signed SRU agreement not received. Impact on current design and accommodation works is not known. BSC believe that re-design will need to be progressed for the stadium accommodation works (as well as the Structure VE changes mentioned before). This change may require planning permission. BSC await instruction from tie.

- SDS, BSC, tie and BAA have agreed a Way Forward in Principal in order to
 progress the design and approvals at the Airport. SDS are planning to start
 informal consultation on the technical and prior approval in w/c 11th August. Due
 to the ongoing delay anticipates that the following IFC will be delayed:
- Airport Stop (A27800) 9 September '08.
- Gogarburn Retaining Walls (431 & 461) 8 October '08.
- 7A Roads, Lighting, landscaping, OLE (SDS30920) 1 October '08
 General landscaping requests from CEC which DO NOT require PA. This has
 impacted batch 7/28 Ingliston Park and Ride. Generally these issues cause a
 small delay to the prior approval but this may impact on the IFC for each
 instance.

There is still not final agreement between CEC and Forth Ports on Bypass Road. If not quickly resolved this will fundamentally impact TRO and Ocean Terminal design. BSC submitted information to CEC Roads Authority for Technical Approvals on 18 April 2008. To date, no comments have been received from







CEC, which were due by 04 July 2008 under v31 of the SDS programme. As such the following IFCs will be delayed.

- Network Rail Balgreen Access Road Bridge The programme is in delay due to a delay in accessing the Infrastructure to do additional GI surveys.
- BSC has also received numerous design changes from CEC during the formal
 consultation stage of the prior approvals, as listed below. After all of the time
 spent developing preliminary design, detailed design and having informal
 consultation it is very disappointing that new comments are received at this stage
 and these will, in many cases impact on the IFC dates and will require change
 instructions to be issued to BSC for the design to be amended.
- Drainage Consents applications submitted to Business Stream on 29 May 2008 and the acknowledgement from Business Stream on 3 June 2008 to say our application had been "accepted and passed to Scottish Water" Assuming Scottish Water's review period started on 4 June 2008, we should have received a response by 18 June 2008. This did not happen and tie and SDS have been chasing Scottish Water (SW) and Business Stream for responses by email and telephone over past month. The issue was escalated with tie at the start of July and contact was made with Scottish Water chairman. tie is to continue to press Scottish Water for comments.

4.2.2 E&M Systems Design

OHLE / TPS

Production

OLE/ TPS: will start after design phase

Approvals and Consents

OLE: design phase has started with planners for depot, outer city and city section packages.

Principle of auto tensioned Catenary system for off-street (Haymarket – Airport) areas agreed with tie/CEC – to be confirmed in writing.

Principle of auto tensioned trolley wire system for on-street (Haymarket – Newhaven) agreed with tie/CEC – to be confirmed in writing

Demonstration to tie/CEC of OCS installation in Potsdam held successfully.

TPS design has not started yet due to missing tram data.

. Issues and Concerns

TPS: design phase not started (required information not complete); potential impact on programme/ further acceleration of design phase may be required

Trackwork

Production

Proposals for replacing the Plinth-Track by Rheda City track are under preparation.

Preliminary trackwork design has been commenced.

A site visit in Germany has been done with representatives of CEC, tie, Siemens and Trackwork suppliers to illustrate the trackforms.







Approvals and Consents

No trackwork engineering documents have officially been submitted yet for approval.

Issues and Concerns

The track alignment has not been issued for construction. AutoCAD drawings have been received by SDS but their status is not confirmed. MX-data are awaited for engineering and procurement purposes.

Depot Workshop Equipment

Production

DWE: will start after design phase

· Approvals and Consents

DWEdesign phase not started yet on all eqipment (required information not complete)

Inquiries on major equipment prepared

Issues and Concerns

DWE: design phase not started, yet on all equipment (required information not complete); potential impact on programme/ further acceleration of design phase may be required

Signalling, Scada, PIS, PA, Comms

Production

Works to programme no significant issues

Approvals and Consents

No documents have officially been submitted yet for approval.

4.2.3 Tram Design

See progressed programme attached as Appendix 10.4.

4.2.4 System Assurance

System Assurance/Requirements management will be led, within the Consortium, by Siemens. A DOORS based management system for requirements is being established, and existing SDS Design Assurance Statements will be incorporated into this system. A full report on System Assurance will be instituted when the system is functional.

4.2.5 Design Change Management

Management of the process of Design Change is part of the responsibility of the Consortium Engineering Manager, working closely with the Systems Engineering Manager.

4.2.6 Value Engineering







- Roseburn Street Viaduct Option A
- · Reduced ballasted track thickness
- Deleted noise attenuation
- RBS bunded material
- · Deleted concrete apron to security fence at depot
- Deleted inner pavement to depot
- · Depot future car-park
- Deleted pumping station at depot

4.2.7 RFI's and TQ's

4.2.7.1 Civil & Building Works

See Appendix 10.4A

4.2.7.2 E&M Systems

Siemens distribute TQ's and RFI's for all lots to proceed with design process. Interface management has started to clarify scope & identify misalignment between offer and SDS design.

4.3 Civil & Building Works

4.3.1 Procurement

4.3.1.1 Subcontractors

A subcontract procurement schedule, showing status at 4th August, is attached as Appendix 10.5.

The procurement of civil package contractors is progressing in line with the construction dates based on the V31 design programme dates.

Section 1A

Negotiations continue with RJ McLeod and other potential package contractors for Section 1A. The aim is to conclude these around the beginning of September 2008.

Section 1B

Tender invitiations were issued to several contractors to be involved in Section 1B and we expect to receive at least 3 completed tenders during week commencing 4th August 2008. We hope to conclude negotiations before the end of August 2008. In the meantime we are progressing with the preparation of Section 1B as if BBUK intended to construct the works.

Section 1D

Expressions of interest in receiving a tender package for Section 1D have been sought and it is our intention to send these packages out before the end of August 2008.

Section 2A and 5A (Part)







A Limited Instruction to Proceed has been issued to Grahams for the demolition of the Caledonian Ale House and this can be amended to include other areas of Section 2A as required. A letter of intent has been issued to Hunter Demolition to include other affected buildings in Section 2A and 5B including.

We are prioritising our negotiations with subcontractors to focus on Russell Road Bridge and Haymarket Viaduct.

Section 5A (Part), 5B and 5C

We have sought quotations for Formwork, Reinforcement and Concrete for all of the structures along this section and we are now carrying out an adjudication process on the returned tenders. We hope to conclude our adjudication process within the next two weeks.

Section 6

We are currently finalising the terms and conditions of the full subcontractor order for Barr Ltd for the construction of the depot. A further meeting is arranged for Tuesday 12 August 2008 to progress the conclusion of outstanding matters. In the meantime Barr Ltd has been issued with a Limited Instruction to Proceed to progress any area of the depot which we consider to be critical to our progress, at risk pending IFC design.

Section 7A

Negotiations are proceeding with Farrans to conclude a subcontractor order and a meeting is arranged for the 6th August 2008 to agree the terms of a Limited Instruction to Proceed and discuss the terms and conditions of the Form of Subcontract

General

Procurement of relevant key subcontractors (Major Civil Works Contractors, Piling Contractors, Ground stabilisation specialists) includes the requirement for provision of a Collateral Warranty, in accordance with cl 28.7 of the Contract.

4.3.1.2 Materials

Procurement is progressing in line with the construction dates based on the V31 design programme dates. Non availability of IFC design is a concern in that delay could expose the contractor to further inflation based price rises.

Reimbursement for such cost impact would be sought as part of the impact of such external delay.

4.3.1.3 Long Lead Procurement Management

Where it has been necessary to secure our programme position we have issued a letter of limited instruction to proceed or a letter of intent e.g. we have issued a letter of intent to Fairfield Mabey to secure delivery of the beams for the Water of Leith bridge in early December and we are about to issue an order for the supply of precast concrete beams.

Whilst procurement of many items is progressing the late issue of 'for construction' drawings is affecting our ability to secure a fixed price. The cost impact of such delay is outside our control and will be the subject of further discussion with **tie**.







4.3.2 Construction

4.3.2.1 Progress on site, to 8th Aug 2008

Section 1A Newhaven Road to Foot of the Walk

No activities planned to commence during the period.

Section 1B Foot of Leith to Mcdonald Rd

Mobilisation of Satellite office 163 Leith Walk has commenced. Ch 100 -350 Traffic Management phasing approved

Section 1C Mcdonald Rd to Princess Street West

Site Investigation works have been carried out

Section 1D Princess St to Haymarket

Site Investigation works have been carried out Shandwick Place - Topographical Survey work has been carried out

Section 2A Haymarket to Roseburn Junction

Haymarket Station Viaduct
Demolition of Caledonian Ale House has continued
Traffic Management phasing scheme has been submitted

Section 5A Roseburn Junction to Balgreen Rd

Murrayfield Retaining Walls - Site Investigation works completed

Baird Drive Retaining Wall - Site Investigation works completed. Site access location approved

Demolition consents ongoing - Simlock, Viking &ECR buildings

Russel Rd Underbridge -Traffic Management scheme modification ongoing

4.4 E&M Systems

4.4.1 Procurement

4.4.1.1 Trackwork

Orders have been placed for :-

- S49 for ballasted and grass track
- 60R2 for straight track on-street
- 59R2 for curved track on-street
- Switches rail section 59R2. As noted above, detailed alignment design is required for switch design and manufacturing.
- · Rheda sleepers.

Trackwork subcontractor (BAM Rail) in place.

4.4.1.2 Other Systems

Procurement dependent on design progress, as noted above







4.5 Trams

Programme attached at the end of section 4 showing the progress up to the end of August. Narrative report will be sent at the end of Period Report 5

4.5.1 Procurement

Supplier selection in progress. Preparation of supply orders in progress. Initial procurement for car body components commenced.

4.6 Testing, Commissioning and Start-up

No comments

4.7 Delays and Recovery Action

The process of identification of key delays and possible recovery action has now commenced (eg discussion of how best to deal with impact of V26-V31 design delivery dates), but has not yet led to agreed mitigation. As BSC permanent staff are mobilised and appreciate the background to issues, this process will become more effective.

A summary of Delay/Recovery Action progress will be included in future reports.







5 tie OBLIGATIONS

A commentary from BSC on **tie** progress in discharging obligations, and any significant impacts, will be included in future reports.

6 STAKEHOLDER AND THIRD PARTY ISSUES

Agreement to utilise tie's Public Liaison Manager in a "Project" role, i.e. on behalf of tie and BSC was made in the period. First indications are that this works well and will contribute further to Project Team. Public Liaison will be reported more fully in future reports.

The Consortium Traffic Manager is working closely within the existing project TM structure to ensure this critical area is efficiently managed. The importance of providing accurate construction start dates and TM arrangements to third parties is well understood, but is of course significantly impacted by the currently unresolved impact of delay in issue of IFC design on the programme.

BSC await the issue of tie's 3rd party Agreement Programme.

7 COMMERCIAL

7.1 Milestones

Milestones Achieved in the Period

Month 4 Preliminaries (BB) Month 4 Preliminaries (S) Month 4 SDS Interface

Milestones Programmed but not Achieved

Month 4 Network Rail Immunisation

A12370 Foot of The Walk Establish TTM & Temp Fencing

1138 Haymarket Stn Viaduct Demolish Caley Ale House

1139 Bankseat at Grid Line 1

192 Haymarket Stn Viaduct Pier 2

227 Haymarket Stn Viaduct Pier 3

496 Haymarket Stn Viaduct Pier 4

508 Haymarket Stn Viaduct Pier 5

1099 Haymarket to Roseburn Bulk Excavation Subbase

103 Russell Road UBdge Excavation

103 Russell Road UBdge Piling

103 Russell Road Ret Wall W3 & W4 Site Clearance

108 Murrayfield Ret Wall W18 Site Clearance

182 Murrayfield Ret Wall W18 Site Clearance

217 Murrayfield Ret Wall W18 REW 14% Complete

110 Murrayfield Ret Wall S21B Site Clearance

197 Murrayfield Ret Wall S21B Demolition

378 Murrayfield Ret Wall S21B Foundations







112 Murrayfield Ret Wall S21C Site Clearance
187 Murrayfield Ret Wall S21C Demolition
358 Murrayfield Ret Wall S21C Earthworks
127 Bankhead Ret Wall W11Construction
Snagging Bankhead Ret Wall W11
3rd Party Bankhead Ret Wall W11 Third Party Sign off
213 South Gyle Access Earthworks and Subbase
758 EPSB North Approach Base Construction Steelfixing
426 EPSB North Approach Excavation
140 EP to Gyle Trackwork Earthworks and Subbase
139 Gyle Tram Stop Ret Wall W16 Wall Construction
Snagging Gyle Tram Stop Ret Wall W16
159 Gogarburn UBdge S29 Temp Access Road Etc

7.2 Changes/Instructions/Departures

See Appendix 10.6

7.3 Risks and Opportunities

7.3.1 Risk

There remains a significant risk of further delay and additional cost to the Project arising from delays to Consents and completion of Service Diversions. Further additional time and cost impacts may arise from re-design for un-diverted services and/or instructed diversions to be carried out under the Infraco Contract. The Contract processes for agreement of estimates for these and other changes may become a delaying factor due to the large volume of change issues which is already becoming apparent on the Project.

7.3.2 Opportunity

BSC are doing feasibility exercises in respect of condensing sections of the programme, for example in Leith Walk, at tie's initiative.

BSC will seek to identify further VE opportunities and delay mitigation measures in the following period.

8 RESOURCES

8.1 Organisation Chart

See Appendix 10.7

9 OTHER ISSUES

No comments







- 10 Appendices
- 10.1 KPI Report

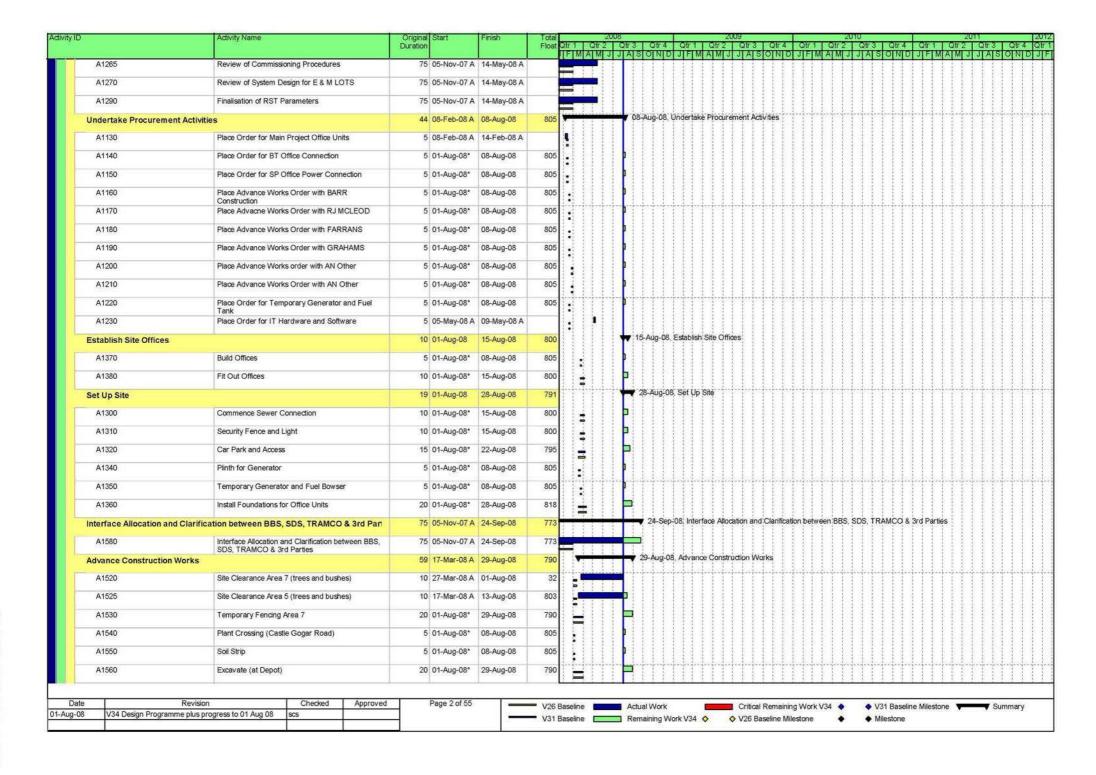


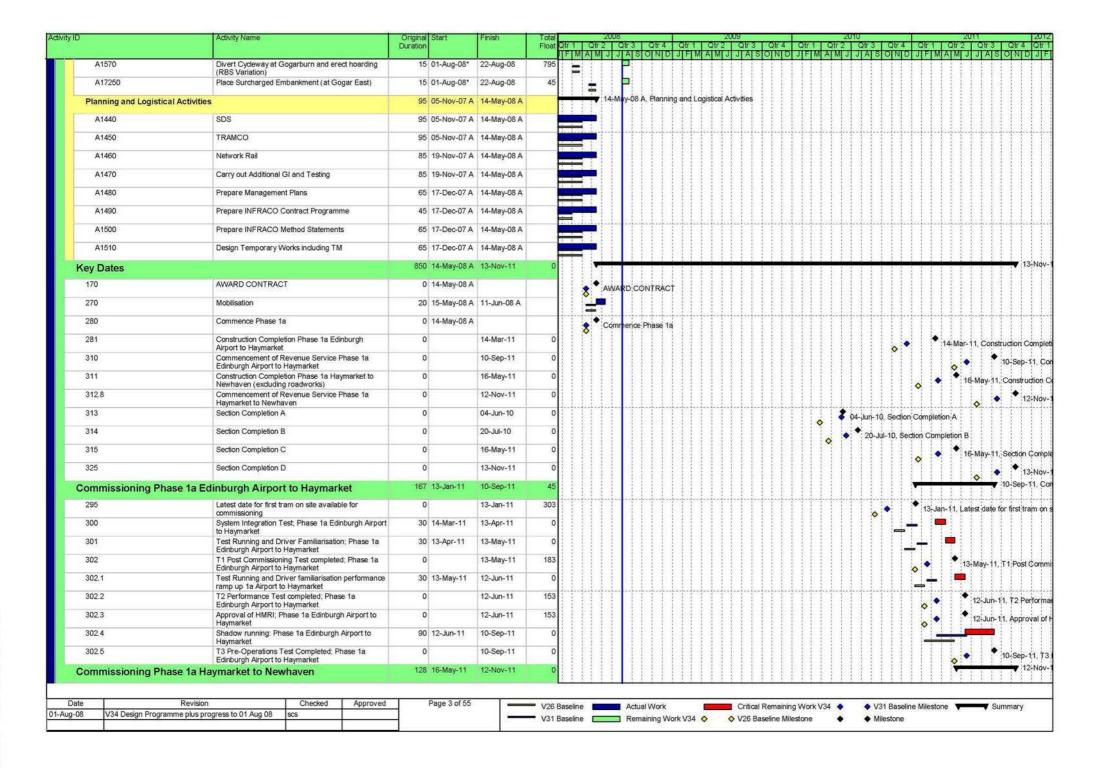






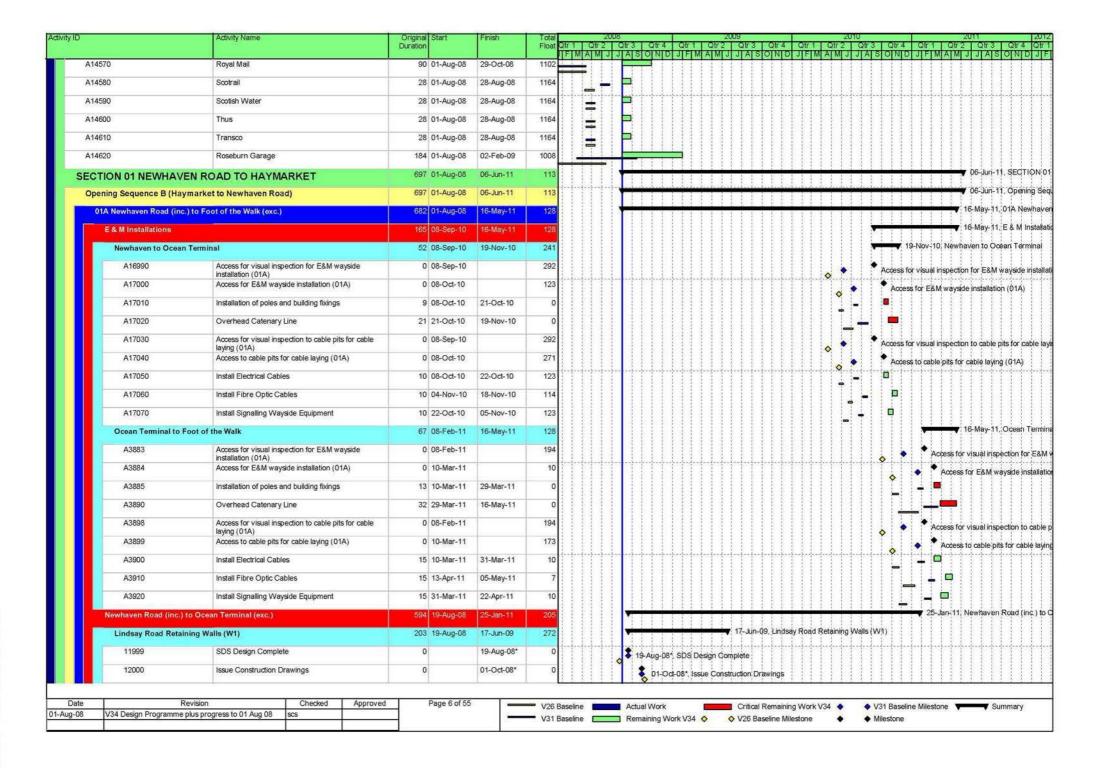
10.2 Programme Update

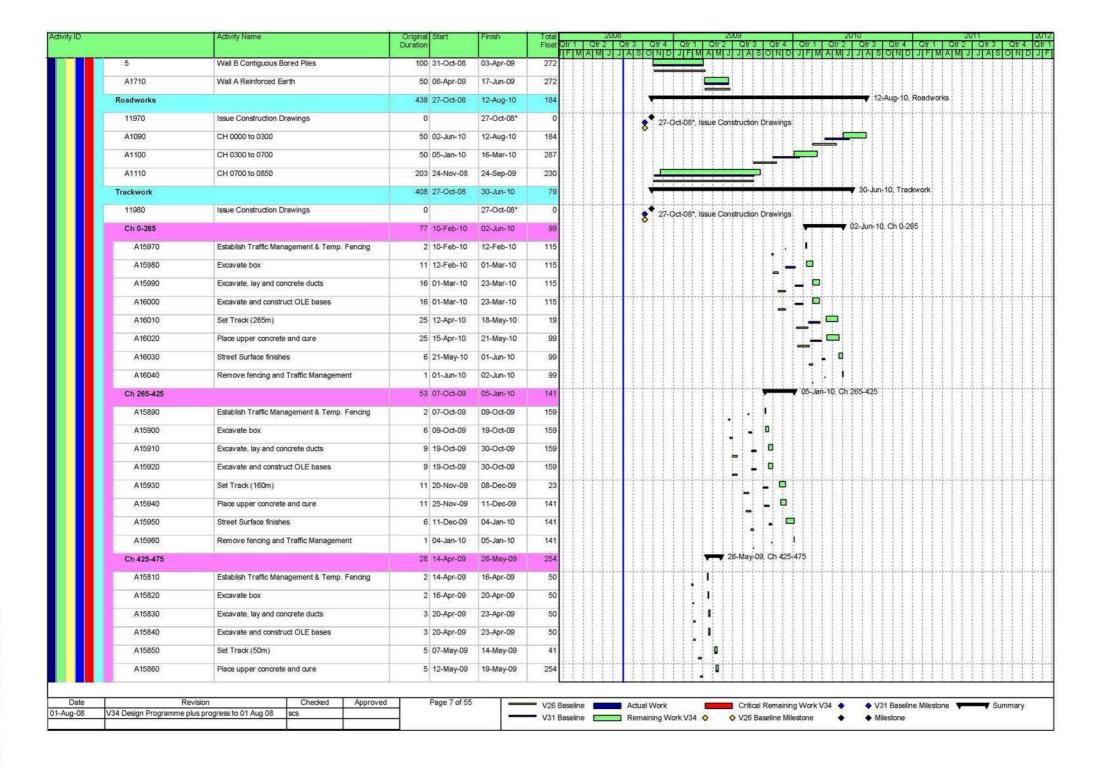






1990	Depot Watermain Diversion	0	dia .		MAMJ	JASONDUHMAMJUASONDUEMAMJUASONDUEMAMJUASON
260		0	01-Aug-08*	-62	٠	01-Aug-08*, Depot Watermain Diversion
	MUDFA & Utilities work area 9 completion	0 01-Aug-08*		87	8	MUDFA & Utilities work area 9 completion
Third Party Notice Periods		271 01-Aug-08	08-Sep-09	539	8	
The second secon	ADM Milling	28 27-Oct-08	24-Nov-08	1077		
A14180	CGM Edinburgh Ltd.	28 12-Aug-08	09-Sep-08	1153		
A14190	Forth Ports	28 03-Oct-08	31-Oct-08	1101	11111	
A14200	ICAS	184 01-Aug-08	02-Feb-09	1008	1-1-1-1	
	Kenmore Capital	28 12-Aug-08	09-Sep-08	1153		
AND CONTROL OF THE CO	Land Securities Trillium	28 06-Dec-08	05-Jan-09	1037	1111	
	NULAP	62 01-Aug-08	01-Oct-08	1130		
ommon Mayer	Ocean Terminal	28 11-Aug-09	08-Sep-09	792	H	
	Royal Yacht Britannia	28 11-Aug-09	08-Sep-09	792		
00000000	Trustees of City Point	28 12-Aug-08	09-Sep-08	1153		
SCIENCES -	AND CONTRACTOR OF THE CONTRACT	77.77 (1994-1977 (122325000000	1	+	·II.
	Verity Trustees	28 12-Aug-08	09-Sep-08	1153	+	• 🗔 🗔 🖯 🗸 🗸 🖟 🖟 🖟 🕶 🕶 🕶 🕶 🕶 🕶 🕶 💮 🕶 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮
1000 (000 000 000 000 000 000 000 000 00	CGM Edinburgh Ltd	28 12-Aug-08	09-Sep-08	1153	+	. 🗖 : : : : : : : : : : : : : : : : : :
	BAA	28 01-Aug-08	28-Aug-08	1164	=	
A14360	Clerical Medical Investment Group	28 05-Aug-08	02-Sep-08	1160	11114	
A14370	Jenners (JPSE)	28 08-Apr-09	06-May-09	916		
A14380	Murrayfield Indoor Sports Centre	28 01-Aug-08	28-Aug-08	1164	=	
A14390	NEL & EPML	28 18-Aug-08	15-Sep-08	1147	_	
A14400	Royal Mail	28 01-Aug-08	28-Aug-08	1164	+	
A14410	Safeway - Morrisons	28 13-Oct-08	10-Nov-08	1091		
A14420	SRU	28 01-Aug-08	28-Aug-08	1164		
A14430	UGC Properties	28 19-Aug-08	16-Sep-08	1146		
A14440	Universities Superannuation Scheme	28 18-Aug-08	15-Sep-08	1147		
A14450	West Craigs Ltd	28 01-Aug-08	28-Aug-08	1164	= 1	
A14470	NIL	28 13-Jan-09	10-Feb-09	1001	HTH	
A14500	Adshel	31 01-Aug-08	31-Aug-08	1161	=	H T
A14510	ВТ	28 01-Aug-08	28-Aug-08	1164		
A14520	Cable & Wireless	28 01-Aug-08	28-Aug-08	1164	=	
A14530	Easynet Telecomms Ltd.	28 01-Aug-08	28-Aug-08	1164	I	
A14540	Historic Scotland	28 01-Aug-08	28-Aug-08	1164	****	
A14550	Network rail	28 24-Oct-08	21-Nov-08	1079		
	NTL	28 01-Aug-08	28-Aug-08	1164		6 7111111111111111111111111111111111111
2000 (FEEES FEE	PARCHIII	7.7.7.7.7.9	9.77		=	
Date Revision	Checked Approve	ed Page 5 of 55	1-	─ V26 Bas	eline	Actual Work

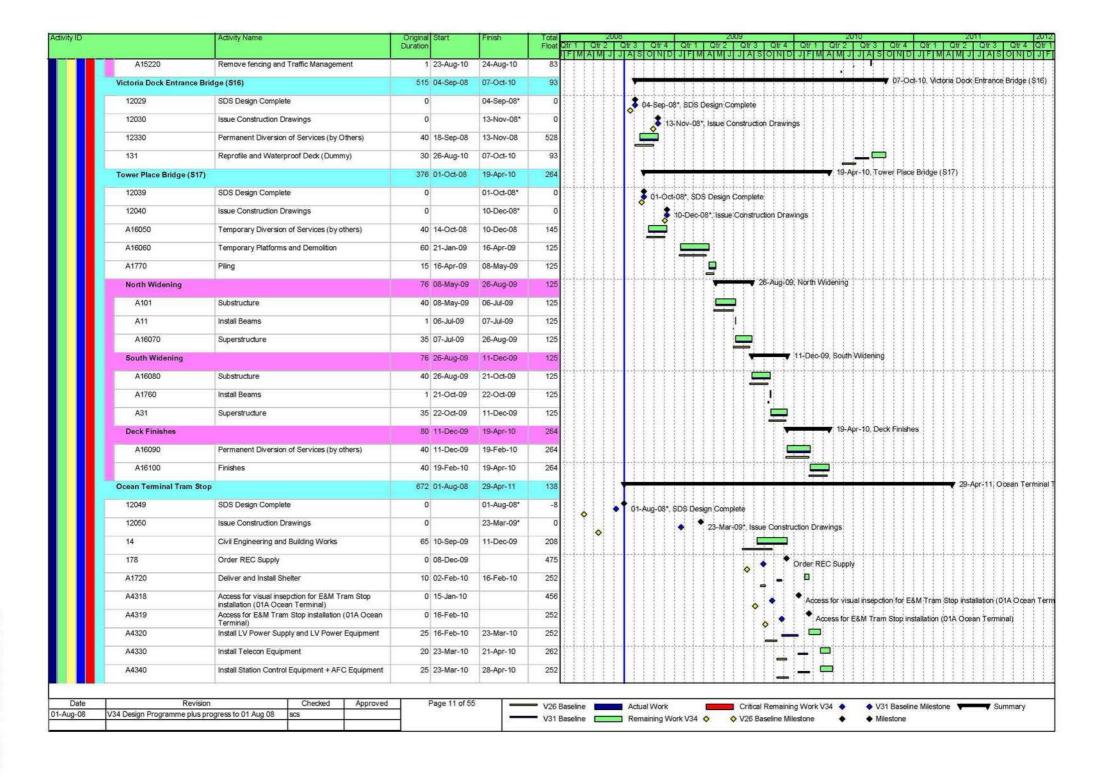


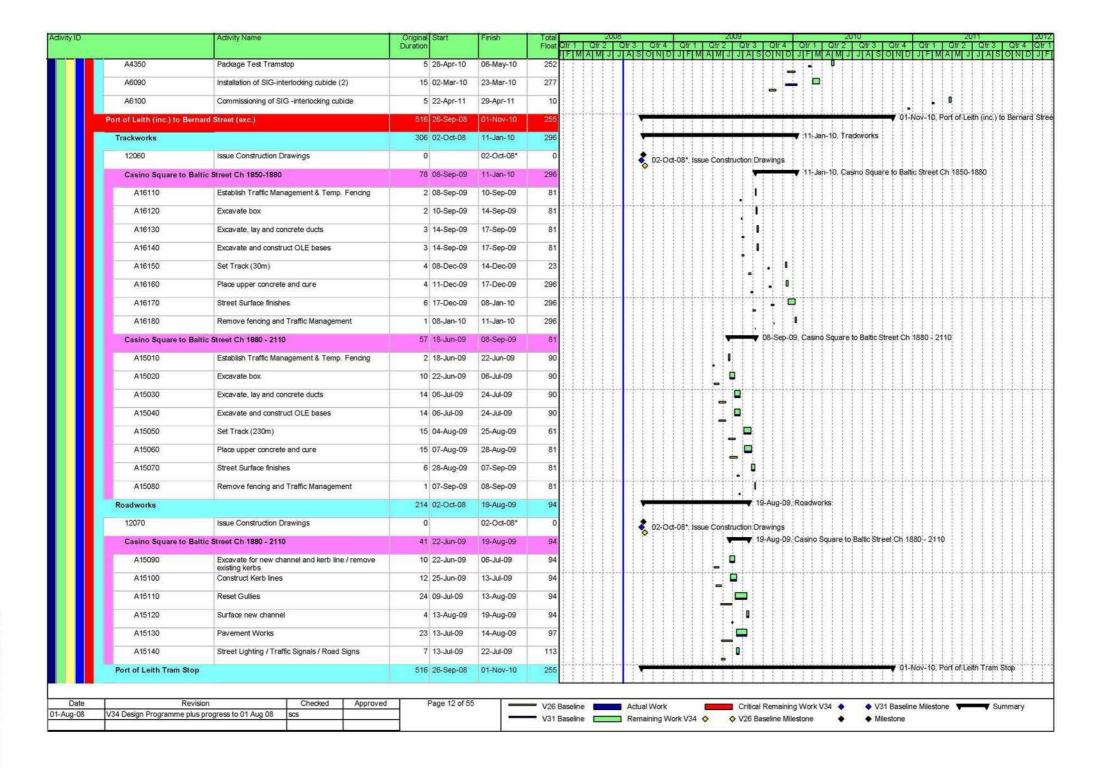


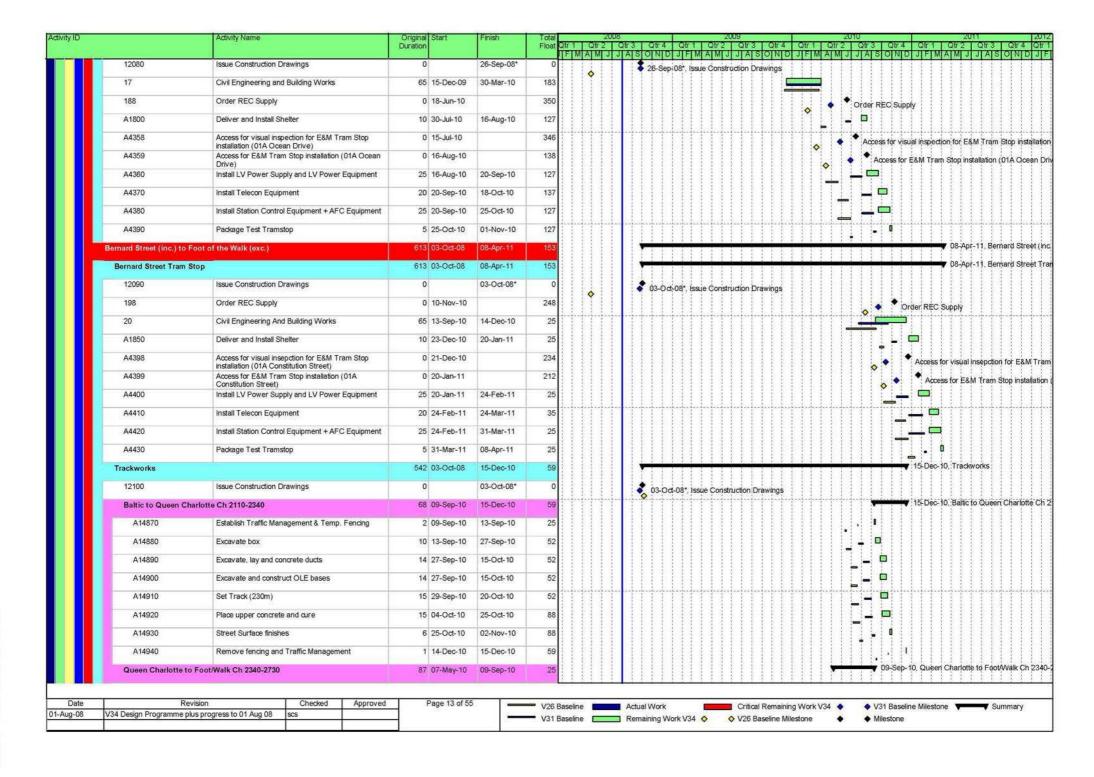
	Activity Name	Original Start Duration	Finish	Float Qtr		Qtr3 Qtr		2009 2010 2011 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Q
A15870	Street Surface finishes	3 19-May-09	22-May-09	254	MAMJJ	ASON	DIJF	TMAMJJASONDJEMAMJJASONDJEMAMJJ I
A15880	Remove fencing and Traffic Management	1 22-May-09	26-May-09	254				
Ch 475-600		42 12-Feb-09	14-Apr-09	50				14-Apr-09, Chi475-600
A15730	Establish Traffic Management & Temp. Fencing	2 12-Feb-09	16-Feb-09	52			1	
A15740	Excavate box	5 16-Feb-09	23-Feb-09	52	++-+-		0	.
A15750	Excavate, lay and concrete ducts	8 23-Feb-09	05-Mar-09	52				
A15760	Excavate and construct OLE bases	8 23-Feb-09	05-Mar-09	52			- (ā
A15770	Set Track (125m)	10 16-Mar-09	30-Mar-09	45			-	
A15780	Place upper concrete and cure	10 19-Mar-09	02-Apr-09	50			-	
A15790	Street Surface finishes	6 02-Apr-09	13-Арг-09	50	4444		-	: [
A15800	D 2010 2010 COLUMN COLU	100000000000000000000000000000000000000	100000000000000000000000000000000000000				•	+ f,
	Remove fencing and Traffic Management	1 13-Apr-09	14-Apr-09	50			Ш	12-Feb-09-Ch-600-700
Ch 600-700		47 24-Nov-08	12-Feb-09	52				121 g0-95, 511000-700
A15650	Establish Traffic Management & Temp. Fencing	2 24-Nov-08	26-Nov-08	58				
A15660	Excavate box	4 26-Nov-08	03-Dec-08	58		- "		
A15670	Excavate, lay and concrete ducts	6 03-Dec-08	11-Dec-08	58		:	0	
A15680	Excavate and construct OLE bases	6 03-Dec-08	11-Dec-08	58			0	
A15690	Set Track (100m)	8 19-Jan-09	29-Jan-09	41			0	
A15700	Place upper concrete and cure	8 22-Jan-09	03-Feb-09	52			•	
A15710	Street Surface finishes	6 03-Feb-09	11-Feb-09	52			0	
A15720	Remove fencing and Traffic Management	1 11-Feb-09	12-Feb-09	52	11111		11	
Ch 700-850		52 15-Apr-10	30-Jun-10	79				30-Jun÷10; Ch 700-850
A15570	Establish Traffic Management & Temp. Fencing	2 15-Apr-10	19-Арг-10	97				
A15580	Excavate box	6 19-Apr-10	27-Apr-10	97				. 0
A15590	Excavate, lay and concrete ducts	9 27-Apr-10	11-May-10	97				
A15600	Excavate and construct OLE bases	9 27-Apr-10	11-May-10	97	+			
A15610	Set Track (150m)	10 02-Jun-10	16-Jun-10	23				T _ e
A15620	Place upper concrete and cure	10 07-Jun-10	21-Jun-10	79				0
A15630	Street Surface finishes	6 21-Jun-10	29-Jun-10	79				- L a
A15640	Remove fencing and Traffic Management	1 29-Jun-10	30-Jun-10	79				
Newhaven Road Tramsto		483 05-Feb-09	25-Jan-11	205	+++			25-Jan-11, Newh
11990	Issue Construction Drawings	0	05-Feb-09*	0				05-Feb-06*, Issue Construction Drawings
8	Civil and Building Works	65 02-Jun-10	02-Sep-10	129		•		us-rep-us-;issue construction brawings
98	Order REC Supply	0 30-Aug-10		300				
A1680	Deliver and Install Shelter	10 11-Oct-10	25-Oct-10					
	Deliver and Install Sheller	10 11-Oct-10	25-UCI-10	77	1111			

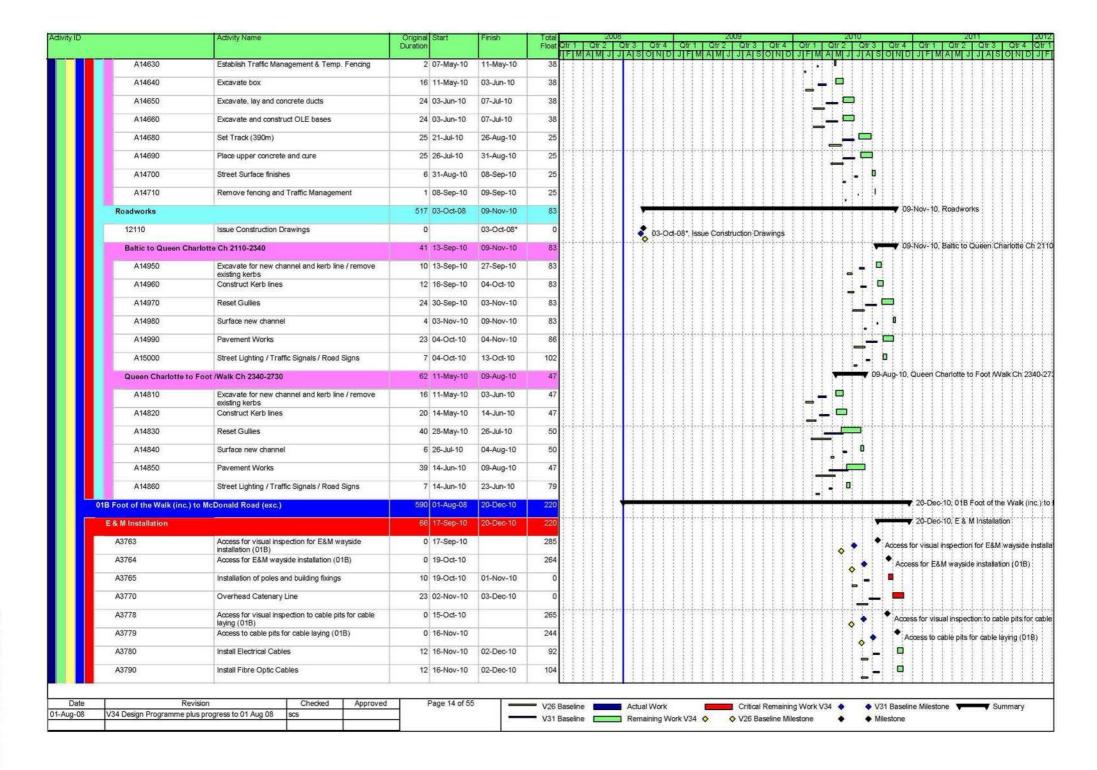


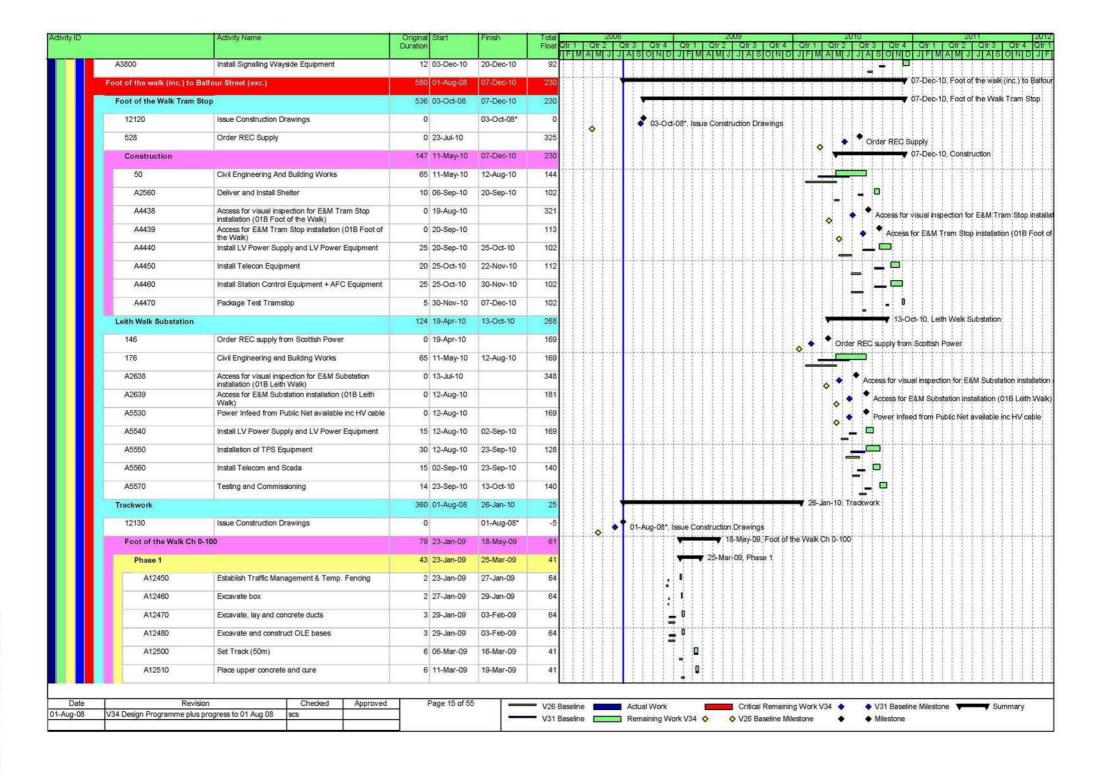
	Activity Name	Original Start Duration	Finish	Total Float	oat Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Q
A15390	Excavate for new channel and kerb line / remove	19 15-Dec-09	25-Jan-10	174	F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O
A15400	existing kerbs Construct Kerb lines	24 18-Dec-09	04-Feb-10	174	74
A15410	Reset Gullies	48 15-Jan-10	24-Mar-10	181	_ - - - - - - - - - - - - -
	- Constitution and the Constitution of the Con	COST CONTRACTOR	D3900X116A31_0285	10000	
A15420	Surface new channel	6 24-Mar-10	01-Apr-10	181	
A15430	Pavement Works	47 04-Feb-10	13-Apr-10	174	
A15440	Street Lighting / Traffic Signals / Road Signs	7 04-Feb-10	15-Feb-10	214	<u> </u>
Trackwork		441 23-Mar-09	10-Jan-11	50	50 ▼ 10-Jan-11, Trackwork
12020	Issue Construction Drawings	0	23-Mar-09*	0	0 ◆ 23-Mar-09†, Issue Construction Drawlings
Ocean Terminal	Ch 850-1080	120 08-Sep-09	10-Mar-10	156	
A15310	Establish Traffic Management & Temp. Fencing	2 08-Sep-09	10-Sep-09	85	85
A15320	Excavate box	12 10-Sep-09	28-Sep-09	85	85
A15330	Excavate, lay and concrete ducts	17 28-Sep-09	21-Oct-09	85	
A15340	Excavate and construct OLE bases	17 28-Sep-09	21-Oct-09	85	85
A15350	Set Track (280m)	28 15-Jan-10	24-Feb-10	19	19
A15360	Place upper concrete and cure	28 20-Jan-10	01-Mar-10	156	
A15370	Street Surface finishes	6 01-Mar-10	09-Mar-10	156	
A15380	Remove fencing and Traffic Management	1 09-Mar-10	10-Mar-10	156	
7676(222994(24))	September 10 octobre (1991) Procedure and the september 1990 (1991)	7.01 (850/005/050/406)	10-Jan-11	50	
	to Rennies Isle Ch 1080-1410	89 24-Aug-10			
A15230	Establish Traffic Management & Temp. Fencing	2 24-Aug-10	26-Aug-10	83	
A15240	Excavate box	14 26-Aug-10	15-Sep-10	100.000	90
A15250	Excavate, lay and concrete ducts	20 15-Sep-10	13-Oct-10	90	90
A15260	Excavate and construct OLE bases	20 15-Sep-10	13-Oct-10	90	90
A15270	Set Track (330m)	21 12-Nov-10	13-Dec-10	50	50
A15280	Place upper concrete and cure	21 17-Nov-10	16-Dec-10	50	50
A15290	Street Surface finishes	6 17-Dec-10	24-Dec-10	50	50 E 0
A15300	Remove fencing and Traffic Management	1 10-Jan-11	10-Jan-11	50	50
Rennies Isle to 0	Casino Square Ch 1410-1880	168 11-Dec-09	24-Aug-10	83	83 ✓ 24-Aug-10, Rennies (sle to Casino Squar
A15150	Establish Traffic Management & Temp. Fencing	2 11-Dec-09	15-Dec-09	125	25 I
A15160	Excavate box	19 15-Dec-09	25-Jan-10	125	
A15170	Excavate, lay and concrete ducts	28 25-Jan-10	04-Mar-10	125	
A15180	Excavate and construct OLE bases	28 25-Jan-10	04-Mar-10	125	
A15190	Set Track (470m)	29 29-Jun-10	10-Aug-10		19
A15200	Place upper concrete and cure	29 02-Jul-10	13-Aug-10	15.61	83
A15210	Street Surface finishes	6 13-Aug-10	23-Aug-10	83	83
T	Revision Checked Approved	1 Page 10 of 55	1-	- Voc	26 Baseline Actual Work Critical Remaining Work V34 ♦ V31 Baseline Milestone V34 V31 Baseline Milestone
	plus progress to 01 Aug 08 scs	172			31 Baseline Remaining Work V34 ♦ ♦ V26 Baseline Milestone ♦ Milestone



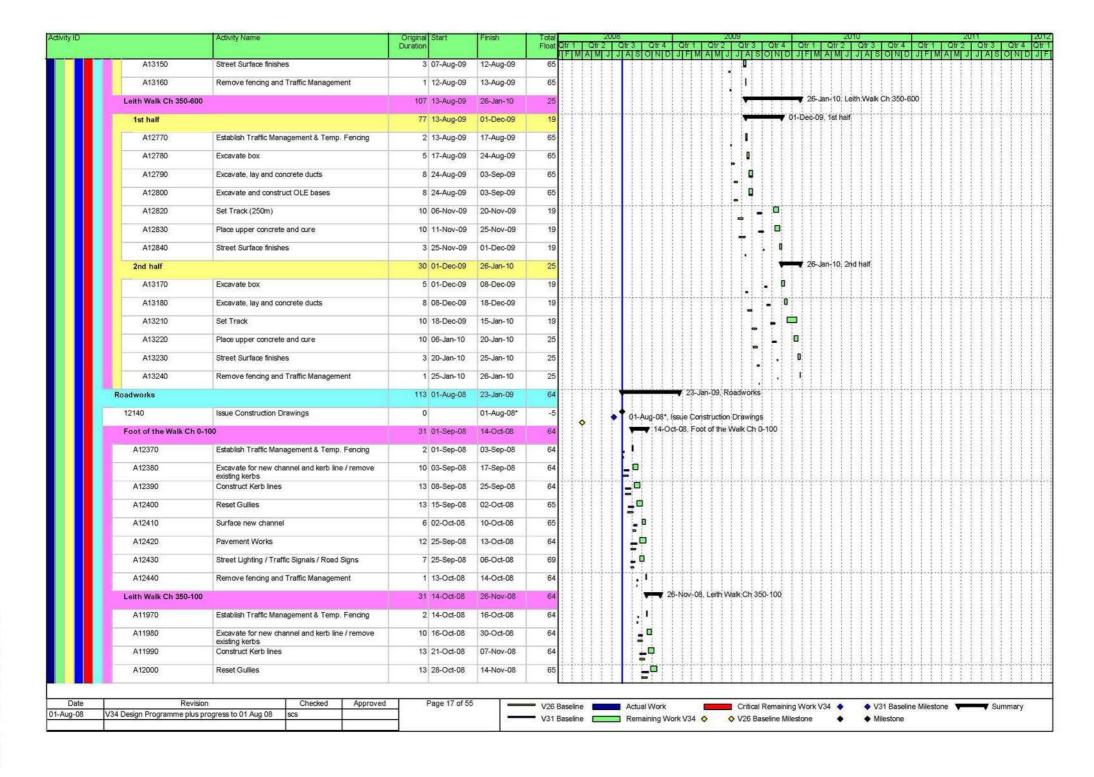


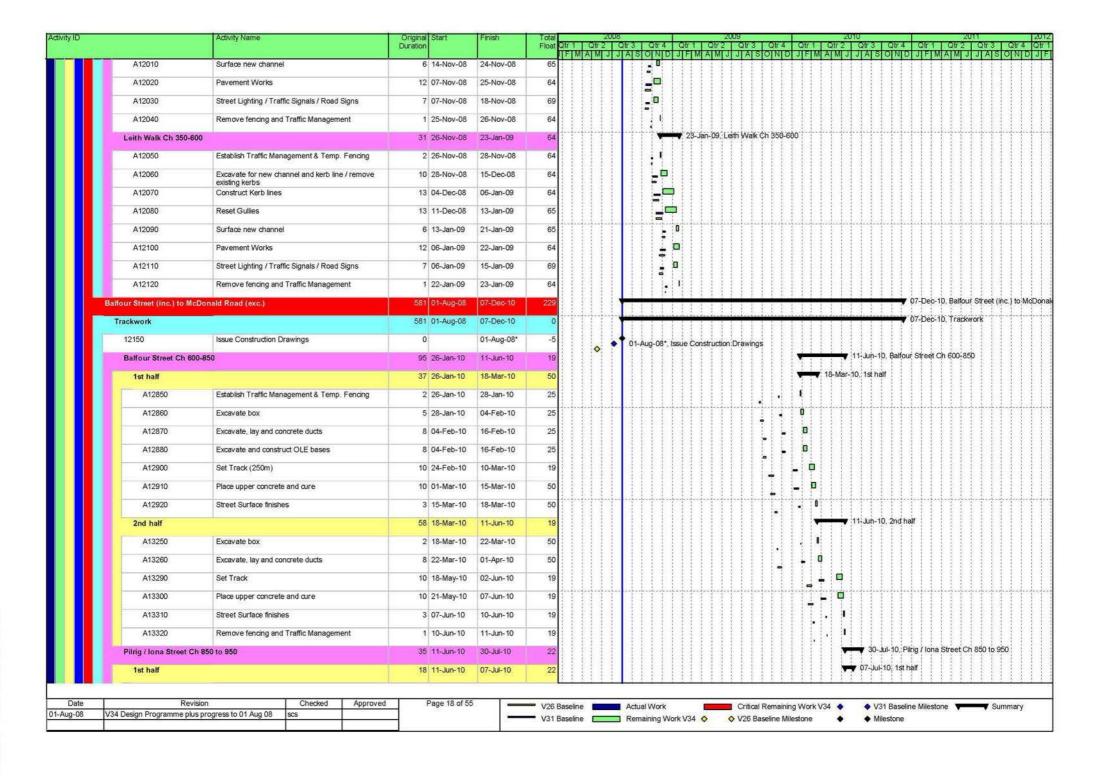


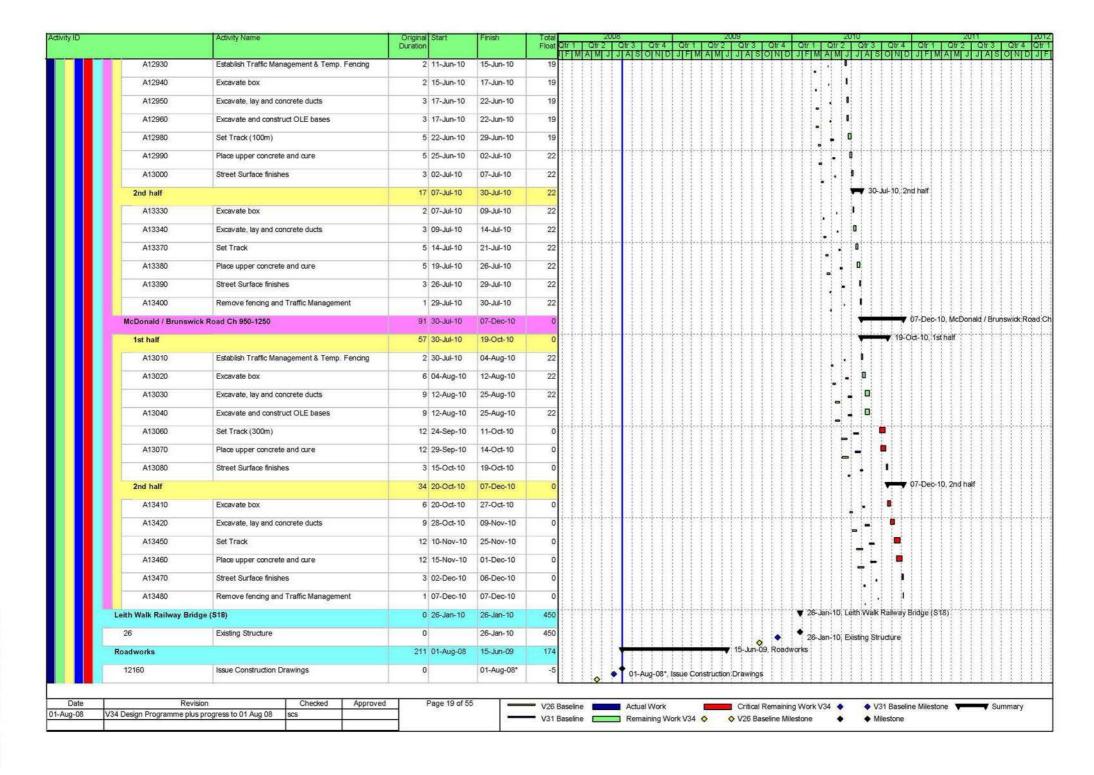


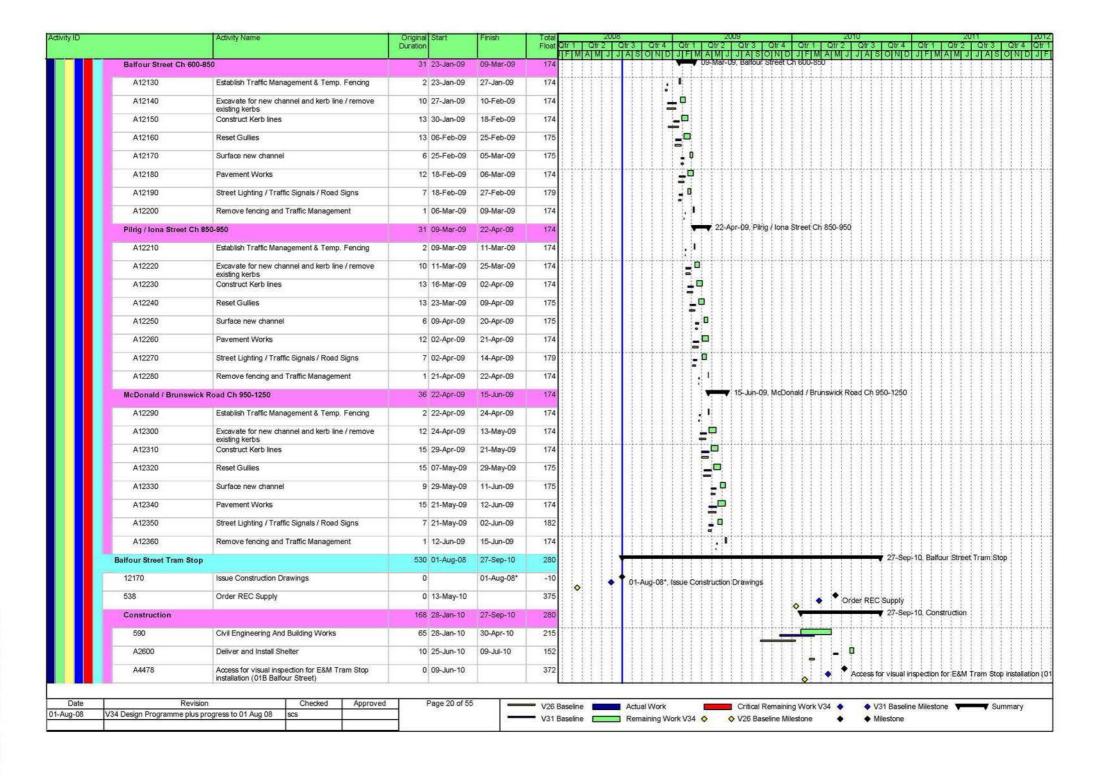


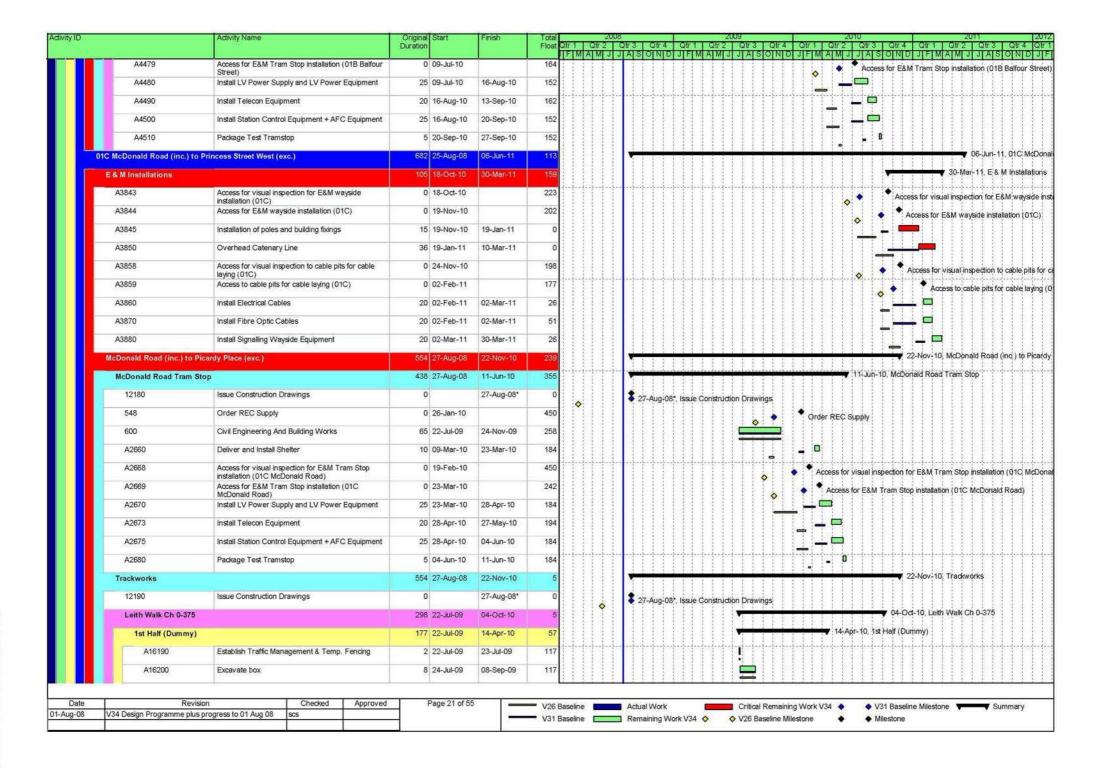
	Activity Name	Original Start Duration	Finish			tr 3
A12520	Street Surface finishes	3 19-Mar-09	24-Mar-09	41 F M A M J J A	SONDJJEMAM JJASON DJEMAM JJASON DJEMAM JJ	AS
A13510	Remove fencing and Traffic Management	1 24-Mar-09	25-Mar-09	41		
Phase 2		18 25-Mar-09	21-Apr-09	41	21-Apr-09, Phase 2	
A12530	Establish Traffic Management & Temp. Fencing	2 25-Mar-09	27-Mar-09	41		
A12540	Excavate box	2 27-Mar-09	31-Mar-09	41		
A12550	Excavate, lay and concrete ducts	3 31-Mar-09	03-Apr-09	41		
A12560	100 (60)		03-Apr-09			
	Excavate and construct OLE bases	3 31-Mar-09		41		
A12580	Set Track (50m)	4 03-Apr-09	09-Apr-09	41		
A12590	Place upper concrete and cure	4 08-Apr-09	15-Apr-09	41		
A12600	Street Surface finishes	3 15-Apr-09	20-Apr-09	41		
A13500	Remove fencing and Traffic Management	1 20-Apr-09	21-Apr-09	41		
Phase 3	<u>'</u>	18 21-Apr-09	18-May-09	61	▼ 18-May-09, Phasé 3	
A12610	Establish Traffic Management & Temp. Fencing	2 21-Apr-09	23-Apr-09	41		
A12620	Excavate box	2 23-Apr-09	27-Apr-09	41		
A12630	Excavate, lay and concrete ducts	3 27-Apr-09	30-Apr-09	41		
A12640	Excavate and construct OLE bases	3 27-Apr-09	30-Apr-09	41		
A12660	Set Track (50m)	4 30-Apr-09	07-May-09	41		
A12670	Place upper concrete and cure	4 06-May-09	12-May-09	61		
A12680	Street Surface finishes	3 12-May-09	15-May-09	61		
A13490	Remove fencing and Traffic Management	1 15-May-09	18-May-09	61		
Leith Walk Ch 100-35	A SECURCO OF CHEST AND DESCRIPTION OF THE SECURITY OF THE SECU	61 18-May-09	13-Aug-09	65	▼ 13-Aug-09, Leith Walk Ch 100-350	
1st half		31 18-May-09	01-Jul-09	61	▼	
A12690	Establish Traffic Management & Temp. Fencing	2 18-May-09	20-May-09	61	+++++++++++++++++++++++++++++++++++++++	
	- 100 A D	100	352			
A12700	Excavate box	5 20-May-09	28-May-09	61		
A12710	Excavate, lay and concrete ducts	8 28-May-09	09-Jun-09	61		
A12720	Excavate and construct OLE bases	8 28-May-09	09-Jun-09	61	- P	
A12740	Set Track (250m)	10 09-Jun-09	23-Jun-09	61	_ 0	
A12750	Place upper concrete and cure	10 12-Jun-09	26-Jun-09	61		
A12760	Street Surface finishes	3 26-Jun-09	01-Jul-09	61		-
2nd half		30 01-Jul-09	13-Aug-09	65	▼ 13-Aug-09, 2nd half	
A13090	Excavate box	5 01-Jul-09	08-Jul-09	61		
A13100	Excavate, lay and concrete ducts	8 08-Jul-09	20-Jul-09	61		-
A13130	Set Track	10 20-Jul-09	04-Aug-09	61		
A13140	Place upper concrete and cure	10 23-Jul-09	07-Aug-09	65	7 0	-
Anna a Tarda Portado			-			
Revis	sion Checked Approved	d Page 16 of 55	· 1_	V26 Baseline Act	ual Work Critical Remaining Work V34 ♦ V31 Baseline Milestone	▼ Su





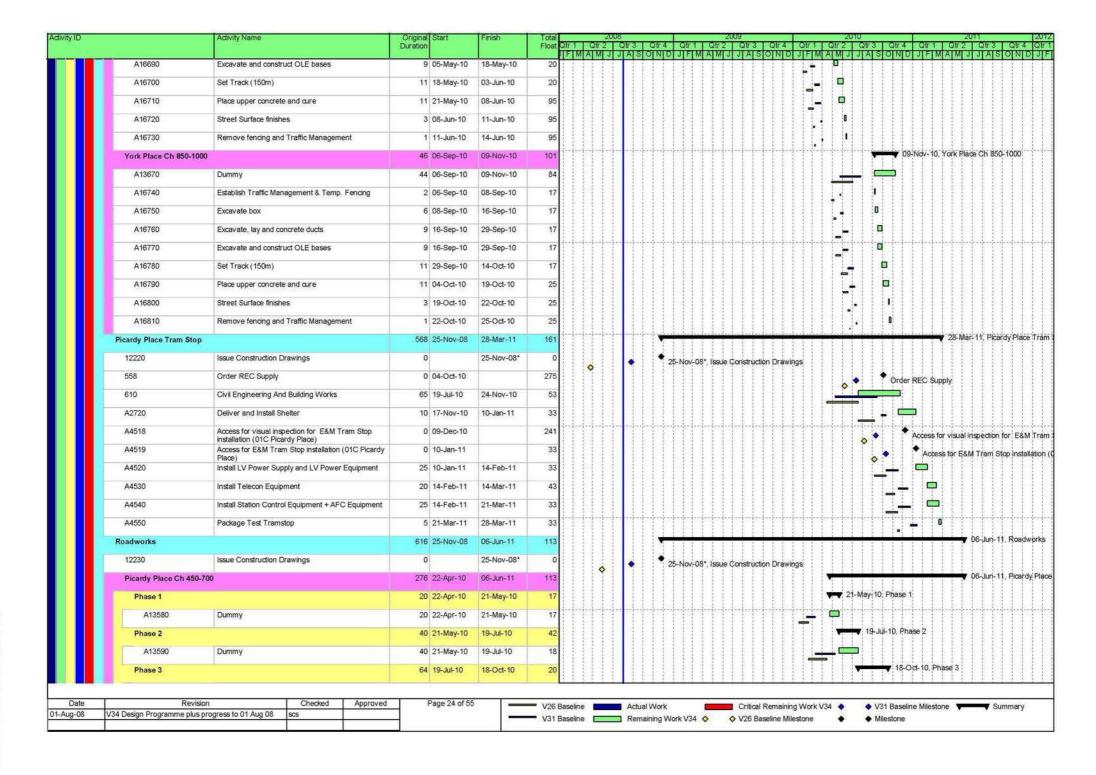


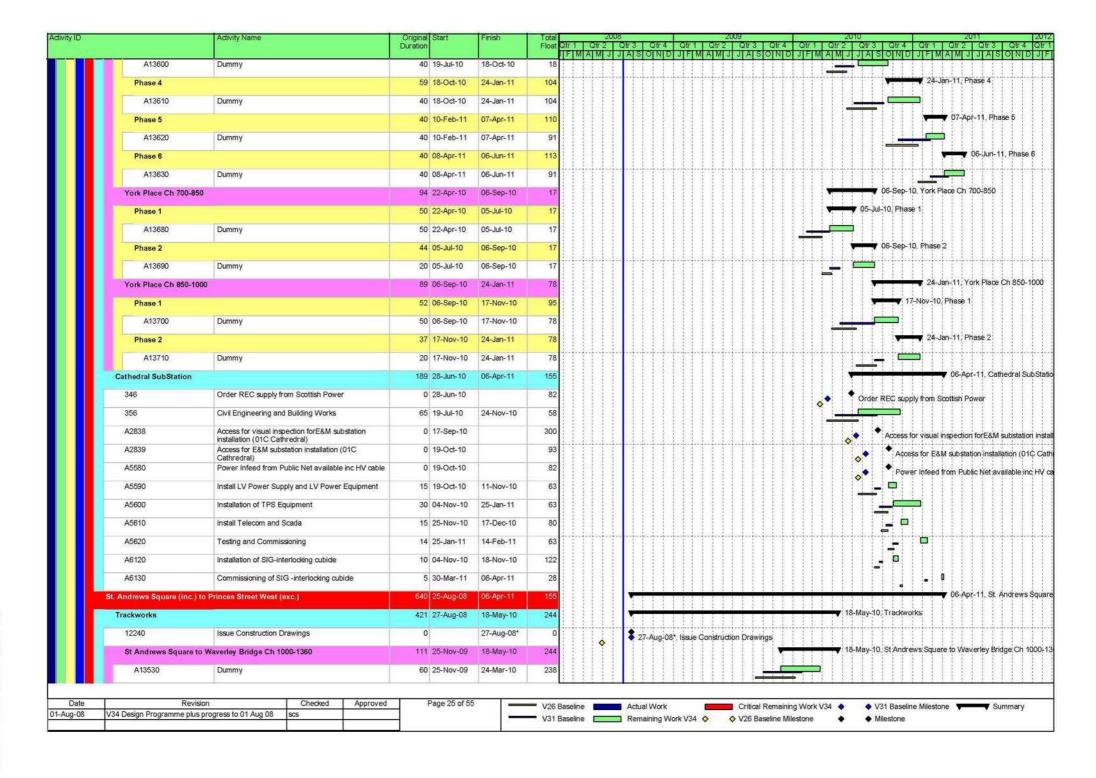


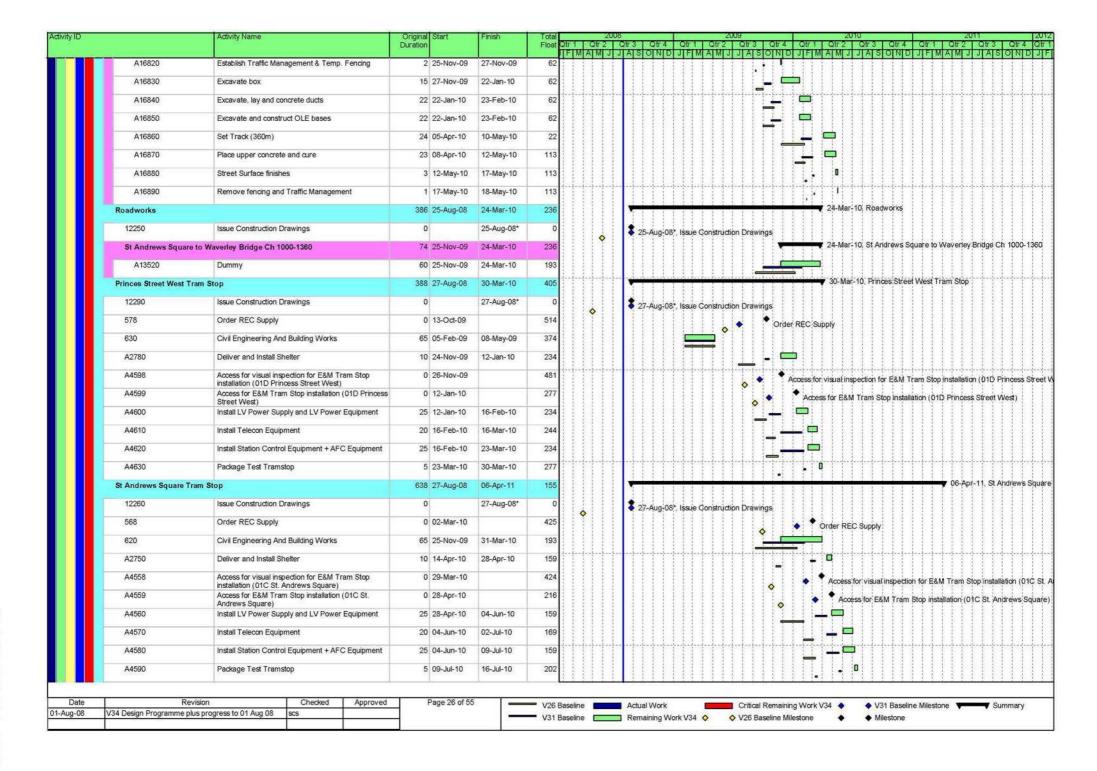


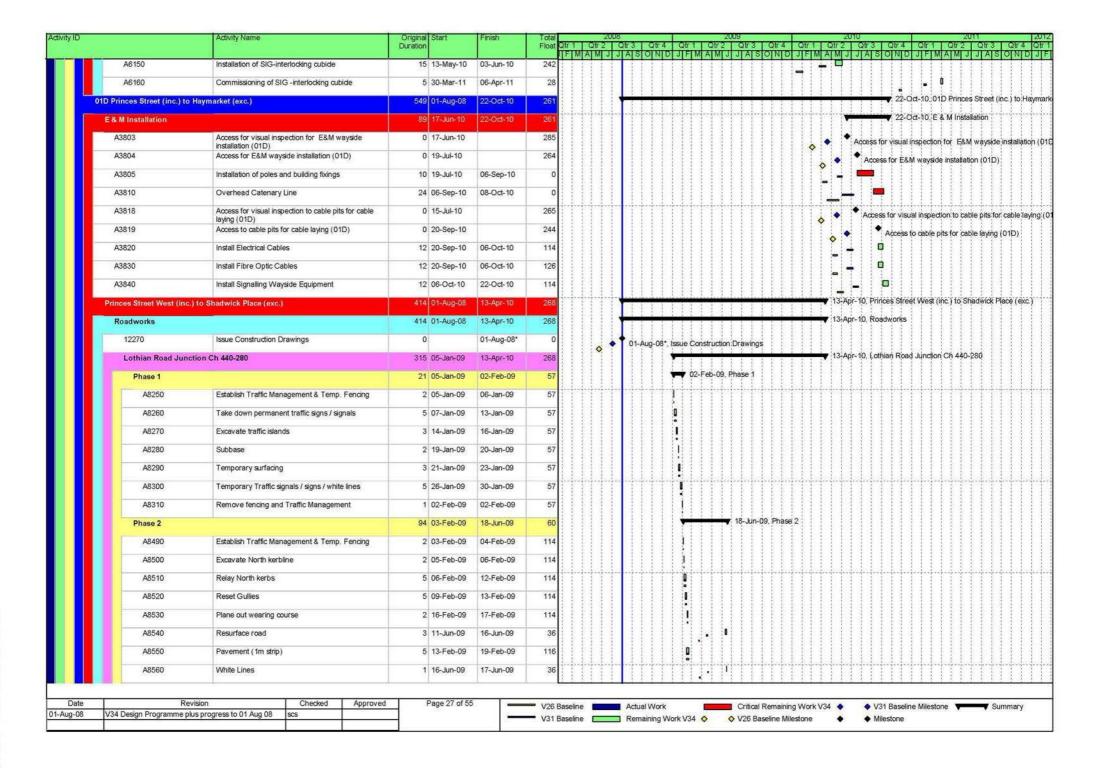
	Activity Name	Original Start Duration	Finish					Qtr3 Qtr4		2010 r 2 Qtr		4 Qtr 1		Qtr 3
A16210	Excavate, lay and concrete ducts	11 09-Sep-09	23-Sep-09	117	MAMJJ	JASONDJ	FMAMJ	JASOND	JEMA	MJJA	SON	DIJEM	AMD	JASIC
A16220	Excavate and construct OLE bases	11 09-Sep-09	23-Sep-09	117				-						111
A16230	Set Track (300m)	14 16-Mar-10	06-Арг-10	19				=						
		700 10000000000000000000000000000000000		1										444
A16240	Place upper concrete and cure	14 19-Mar-10	09-Apr-10	57				-	- 7					
A16250	Street Surface finishes	3 09-Apr-10	14-Apr-10	57					0					
2nd Half (Dummy)		121 14-Apr-10	04-Oct-10	5							04-0	Oct-10, 2nd	Half (Dumn	my)
A16330	Excavate box	8 14-Apr-10	26-Apr-10	57					0					
A16340	Excavate, lay and concrete ducts	11 26-Apr-10	12-May-10	57										
A16350	Set Track	14 06-Sep-10	23-Sep-10	0					TITI.				M	TTT
A16360	Place upper concrete and cure	14 09-Sep-10	28-Sep-10	5										
A16370	Street Surface finishes	3 29-Sep-10	01-Oct-10	5						Ţ.,	1			
A16380	Remove fencing and Traffic Management	1 04-Oct-10	04-Oct-10	5						١,	1			
London Road Ch 375-4	50	35 05-Oct-10	22-Nov-10	5							-	22-Nov-10	London R	load Ch
1st Half (Dummy)	294.	17 05-Oct-10	27-Oct-10	8	+++					+++	77 2	7-Oct-10, 1s	st Half (Dun	nmy)
A16260	Establish Traffic Management & Temp. Fencing	2 05-Oct-10	06-Oct-10	5										
A16270	Excavate box	2 07-Oct-10	08-Oct-10	5										111
			13-Oct-10	-										111
A16280	Excavate, lay and concrete ducts	3 11-Oct-10	100000000000000000000000000000000000000	0										
A16290	Excavate and construct OLE bases	3 11-Oct-10	13-Oct-10	5						1.1.1.	LLLL			111
A16300	Set Track (300m)	4 14-Oct-10	19-Oct-10	5							- "			
A16310	Place upper concrete and cure	4 19-Oct-10	22-Oct-10	6							- '			
A16320	Street Surface finishes	3 25-Oct-10	27-Oct-10	6							- 1			
2nd Half (Dummy)		18 28-Oct-10	22-Nov-10	5							-	22-Nov-10	, 2nd Half (Dummy)
A16390	Excavate box	2 28-Oct-10	29-Oct-10	6							. !			
A16400	Excavate, lay and concrete ducts	3 03-Nov-10	05-Nov-10	6	TTTT	miiiiii			TIT	ttt	. 1		HTT	ttt
A16410	Set Track	4 08-Nov-10	11-Nov-10	6							. 0			111
A16420	Place upper concrete and cure	4 11-Nov-10	16-Nov-10	6							. 1			
A16430	Street Surface finishes	3 17-Nov-10	19-Nov-10	6						•	. 1			
A16440	Remove fencing and Traffic Management	1 22-Nov-10	22-Nov-10	6						•	. 1			
Roadworks		221 27-Aug-08	21-Jul-09	155	4-4-4-4-			▼ 21-Jul-09, Roa	dworks					444
12200	Jesus Construction Drawings	0		0										
	Issue Construction Drawings		27-Aug-08*		•	\$ 27-Aug-08*, Is		n Drawings 09, Leith Walk Chil	0.375					
Leith Walk Ch 0-375		94 31-Oct-08	26-Mar-09	141			ZO-IVIAIT-	oo, Lean Walk Off	11111					
A13540	Dummy	80 31-Oct-08	26-Mar-09	117			#							
London Road Ch 375-4	50	80 27-Mar-09	21-Jul-09	155			I	▼ 21-Jul-09, Lond	ion Road Ch	3/5+450				
	Dummy	80 27-Mar-09	21-Jul-09	117					TITI	TIT			TIT	TIII

		Activity Name	Original Start Duration	Finish	Total Float	tr 1 Qtr 2	Qtr 3	Qtr 4	Qtr 1 Qtr	2 Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
P	Picardy Place (inc.) to St. A	ndrews Square (exc.)	616 25-Nov-08	06-Jun-11	113	FMAMJ	JAS	UND	FMAN	JJAS	OND	I F IMI A	W J	ASI	וטואוכ	J F M	A M J	6-Jun-11	, Pica
	Trackworks		536 25-Nov-08	09-Feb-11	45			-	+++	+++		+++	+	+++	₩	09-F	eb-11, T	rackwork	(S
г	12210	Issue Construction Drawings	0	25-Nov-08*	0			◆ 25.	Nov-08*, iss	ie Constructi	on Drawing								
Н	Picardy Place Ch 450-	700	136 19-Jul-10	09-Feb-11	5	•		HIT			J. Diding		١,		+++	09-F	eb-11, F	icardy Pla	ace C
п	Phase 3		79 19-Jul-10	05-Nov-10	5			++++		 		+++			05-N	lov-10, Pf	hase 3	+++	
п	1st Half (Dummy		44 19-Jul-10	17-Sep-10	22								١,	,	7-Sep-10	0, 1st Half	f (Dumm	y)	
п	A16450	Establish Traffic Management & Temp. Fencing	2 19-Jul-10	21-Jul-10	25														
	A16460	Excavate box	2 21-Jul-10	23-Jul-10	25							1							
п	A16470	TARREST STATE OF THE STATE OF T	3 23-Jul-10	28-Jul-10	25							1111		n					
		Excavate, lay and concrete ducts					ļļ	ļ.ļ.ļ.ļ.	4.4.4.4.	- - - -		144.				. . .	444	444	
	A16480	Excavate and construct OLE bases	3 23-Jul-10	28-Jul-10	25							111.	•	١, ١					
	A16490	Set Track (100m)	4 06-Sep-10	09-Sep-10	22									Ů					
	A16500	Place upper concrete and cure	4 09-Sep-10	14-Sep-10	22								•	U					
	A16510	Street Surface finishes	3 15-Sep-10	17-Sep-10	22									11					
	2nd Half (Dumm	γ)	35 20-Sep-10	05-Nov-10	5									7	▼ 05-N	lov-10, 2r	nd Half (I	Dummy)	
	A16520	Excavate box	2 20-Sep-10	21-Sep-10	22				TITI			III			TIT	TIT	TII	TII	
	A16530	Excavate, lay and concrete ducts	3 22-Sep-10	24-Sep-10	22									F					
	A16540	Set Track	4 20-Oct-10	25-Oct-10	5									1.	0				
	A16550	Place upper concrete and cure	4 25-Oct-10	28-Oct-10	5							Ш	Ш		1				
п	A16560	Street Surface finishes	3 29-Oct-10	04-Nov-10	5								Ш		Ò				
	A16570	Remove fencing and Traffic Management	1 05-Nov-10	05-Nov-10	5		hh	1111	tttt	 		ttt	htt	111	TH	111	111	111	1
п	Phase 4		57 08-Nov-10	09-Feb-11	5								•		+	09-F	eb-11, F	hase 4	
	A16580	Establish Traffic Management & Temp. Fencing	2 08-Nov-10	09-Nov-10	5										1				
	A16590	Excavate box	6 10-Nov-10	17-Nov-10	5								ľ		0				
	A16600	Excavate, lay and concrete ducts	9 18-Nov-10	30-Nov-10	5								l '		0				
	A16610	Excavate and construct OLE bases	9 18-Nov-10	30-Nov-10	5				++-+-					#1	0		+++	+++	
	A16620	Set Track (150m)	16 10-Jan-11	31-Jan-11	5									Ħſ					
	Townson and the second			03-Feb-11										-					
	A16630	Place upper concrete and cure Street Surface finishes	16 13-Jan-11	NAME OF THE OWNER OF THE OWNER.	5									-	TH	1			
	A16640		3 04-Feb-11	08-Feb-11															
	A16650	Remove fencing and Traffic Management	1 09-Feb-11	09-Feb-11	5			1.1.1.1.		<u> </u>		<u> </u>			N Vaca		00.000		
	York Place Ch 700-850		44 22-Apr-10	25-Jun-10	111									25-Jun-11	J. TOIK P	lace Ch 7	00-800		
	A13660	Dummy	44 22-Apr-10	25-Jun-10	23														
	A16660	Establish Traffic Management & Temp. Fencing	2 22-Apr-10	26-Apr-10	20							. '				111			
	A16670	Excavate box	6 26-Apr-10	05-May-10	20								0						
	A16680	Excavate, lay and concrete ducts	9 05-May-10	18-May-10	20							1-	0						
				11.50												d de de			
- 1	Revision V34 Design Programme plus		d Page 23 of 55	_		aseline	Actu			Critical	Remaining '	Work V34		♦ V31	Baseline	Milestone	е 🔻	Sun	nmary

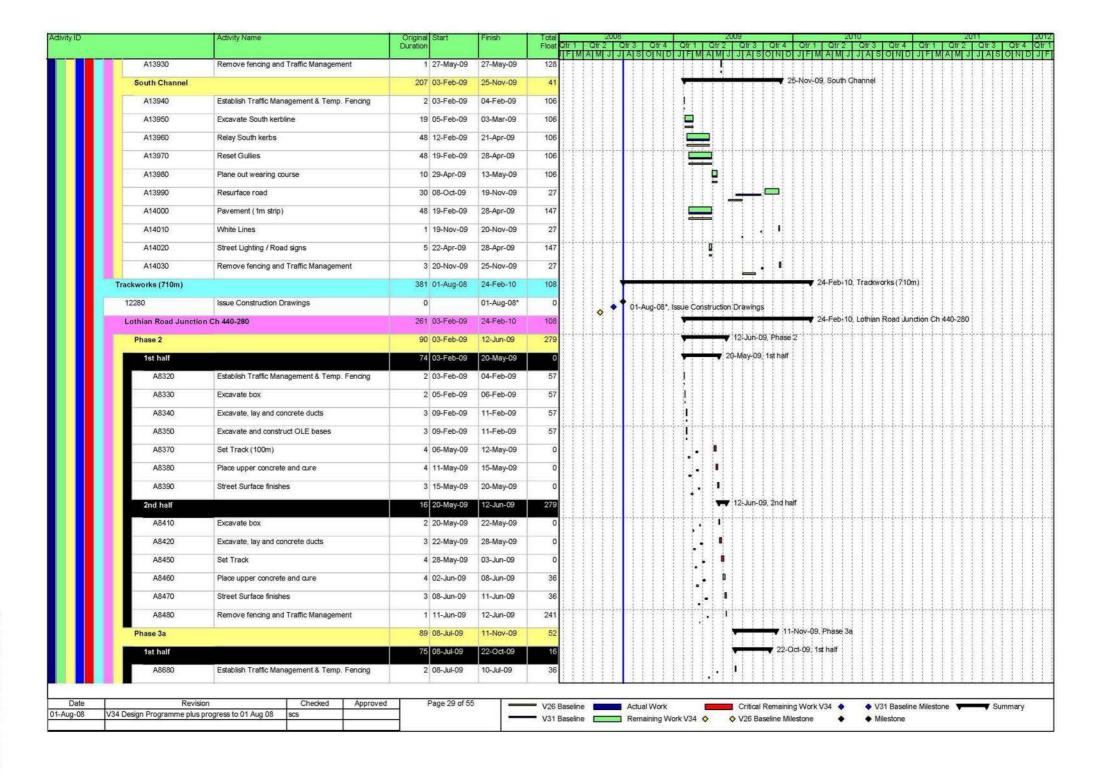




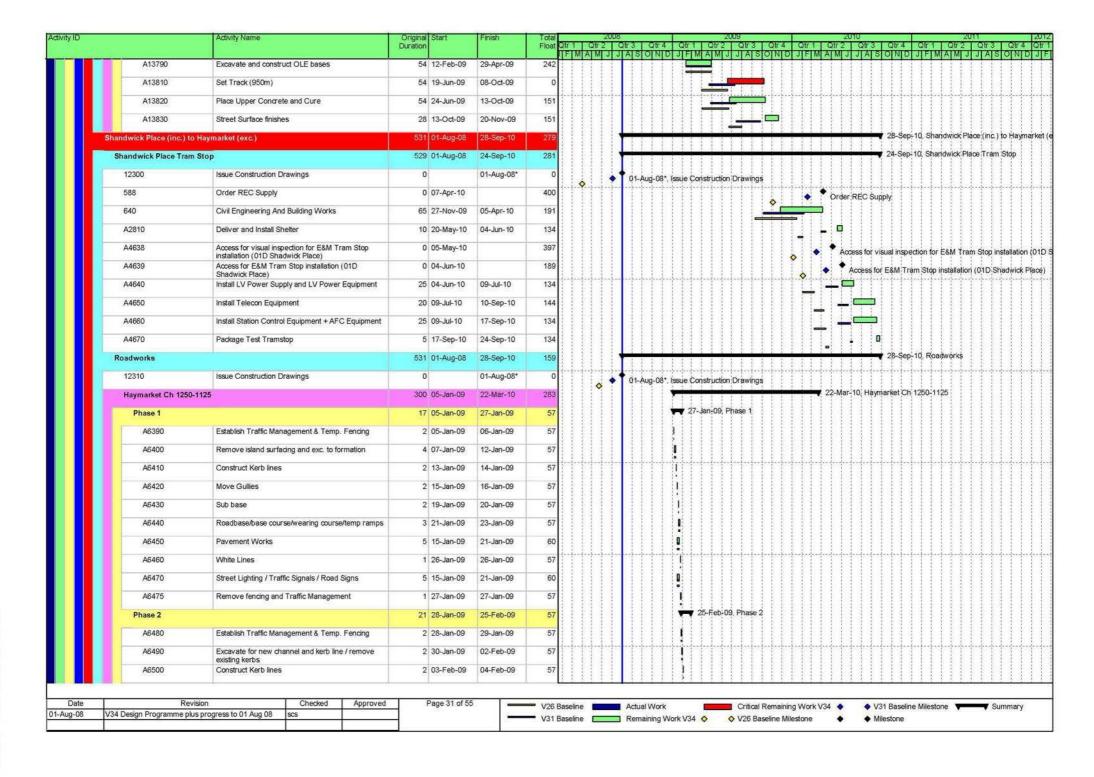




	Adivity Name	Original Start Duration	Finish	Tota Floa			Qtr	3 Qtr 4 Qtr 1		2009 Qtr 3	Qtr 4	Qtr	Qt	2010	Qtr 3	Qtr 4	Qtr 1	1 Qt	201	Qtr 3	ļ
A8570	Street Lighting / Road signs	7 13-Feb-09	23-Feb-09	11-		MAM.	JA	SONDJEM	AM	JJA	SON	DJF	MAI	MIJI	JAS	ONE	UF	MAI	N J	JAS	
DANIES CASE		TO WOODSCHOOL	18-Jun-09	3	11 1					. 111		111								11	
A8670	Remove fencing and Traffic Management	1 17-Jun-09	1,41,221,241,000,000		1 1				• "		LU00 D										
Phase 3		14 18-Jun-09	08-Jul-09	6						V Do-	kil+09, Ph	lase a									
A8580	Establish Traffic Management & Temp. Fencing	2 18-Jun-09	22-Jun-09	3					11	0				11							
A8590	Excavate South kerbline	2 22-Jun-09	24-Jun-09	3		TIII				1			TT	TI	П		$\Pi\Pi$		11	1	
A8600	Relay South kerbs	4 23-Jun-09	29-Jun-09	3						0											
A8610	Reset Gullies	4 24-Jun-09	30-Jun-09	3			Î			0										1	
A8620	Plane out wearing course	1 30-Jun-09	01-Jul-09	3						1										ì	ì
A8630	Resurface road	3 01-Jul-09	06-Jul-09	3						0									П	ŀ	l
A8640	Pavement (1m strip)	4 29-Jun-09	03-Jul-09	3	1			<u></u>		0			-	++-	4		1-1-1		tt	÷	
A8650	White Lines	1 06-Jul-09	07-Jul-09	3					•	1									П	ì	l
A8660	Street Lighting / Road signs	6 29-Jun-09	07-Jul-09	3						0											
A8665	Remove fencing and Traffic Management	1 07-Jul-09	08-Jul-09	3	11 1				•											-	
A STATE OF THE STA	remove letting and maint management	A CONTRACTOR OF THE PROPERTY O	THE THE PARTY OF T	16	11 1								1	3 Apr	10 Ph	et eze			11	ì	2
Phase 4a		33 24-Feb-10	13-Apr-10	26	Li					.111				JAPI-	10, 711	ase 4a			Ш	1	1
A9000	Establish Traffic Management & Temp. Fencing	2 24-Feb-10	26-Feb-10	22	11 1																1
A9010	Excavat for new kerb lines & channel	4 26-Feb-10	04-Mar-10	22							. •	0			П				11	1	-
A9020	Lay new kerbs	4 01-Mar-10	05-Mar-10	22			1														-
A9030	Reset Gullies	4 02-Mar-10	08-Mar-10	23																1	
A9040	Surface new channels	4 08-Mar-10	12-Mar-10	23							1	- 11									
A9050	Pavement	25 05-Mar-10	12-Apr-10	22		TIT		HHHHH		1111				T	1	rtt	$\dagger \dagger \dagger$		TT	Ť	-
A9060	Rebuild Traffic Islands	15 12-Mar-10	05-Apr-10	23							Π	_									
A9080	Street Lighting / Road signs	5 26-Mar-10	05-Apr-10	23									0							-	
A9130	Remove fencing and Traffic Management	1 12-Apr-10	13-Apr-10	22						111	•		1								
Princes Street	Ch 280-0,1980-1360	207 03-Feb-09	25-Nov-09	4						111	Щ,	25-Nov-	09, Pri	nces St	treet C	h 280-0,	1980-13	60		-	-
North Chan	00000 1000000 00000 000000000000000000	79 03-Feb-09	27-May-09	16	1.1	444		<u> </u>		27-May	09, North	Channe		44.	44.				4.4.	Ļ.	-
A13840	Establish Traffic Management & Temp. Fencing	2 03-Feb-09	04-Feb-09	9:																Ì	
1					11.1			<u> </u>												į	-
A13850	Excavate North kerbline	19 05-Feb-09	03-Mar-09	9	1				Ш						Ш				П	1	
A13860	Relay North kerbs	48 12-Feb-09	21-Apr-09	9				-	=											ì	
A13870	Reset Gullies	48 19-Feb-09	28-Арг-09	9															П	1	-
A13880	Plane out wearing course	10 29-Apr-09	13-May-09	9					•					III					H	Ī	
A13890	Resurface road	7 14-May-09	22-May-09	9					0										11	ì	-
A13900	Pavement (1m strip)	48 19-Feb-09	28-Apr-09	14																-	-
A13910	White Lines	1 26-May-09	26-May-09	12				HHHHT	1											-	-
A13920	Street Lighting / Road signs	5 22-Apr-09	28-Apr-09	14					0											-	
	Revision Checked Approve	ed Page 28 of 55	1_			2001	-004							**							_
4 Design Program	me plus progress to 01 Aug 08 scs			V26	Baseli	1000		ctual Work	574	- Critic	al Remai	ning Wor Milestone		•		31 Baselii ilestone	ne Miles	stone		•	5



	Activity Name	Original Start Duration	Finish	Float Qtr		Qtr3 Qt						2010 r2 Qtr			
A8690	Excavate box	1 10-Jul-09	13-Jul-09	36	MAMJ	JASO	NDJEN	AMJ.	ASO	NDJ	FMA	MIJIA	SON	JIFIN	AM
A8700	Excavate, lay and concrete ducts	2 13-Jul-09	15-Jul-09	36								444			
	Excavate and construct OLE bases	2 13-Jul-09						•							
A8710	TO A STATE OF THE PARTY OF THE	101 FORMER (#125)	15-Jul-09	36											
A8730	Set Track (30m)	4 08-Oct-09	14-Oct-09	0											
A8740	Place upper concrete and cure	4 13-Oct-09	19-Oct-09	16					0						
A8750	Street Surface finishes	3 19-Oct-09	22-Oct-09	16											
2nd half		14 22-Oct-09	11-Nov-09	52			TITE		٧	▼ 11-No	v-09, 2nd	half		TII	
A8760	Excavate box	1 22-Oct-09	23-Oct-09	16					. 1						
A8770	Excavate, lay and concrete ducts	2 23-Oct-09	27-Oct-09	16					. 8						
A8800	Set Track	4 27-Oct-09	02-Nov-09	16					. 0						
A8810	Place upper concrete and cure	4 30-Oct-09	05-Nov-09	38						1					
A8820	Street Surface finishes	3 05-Nov-09	10-Nov-09	38			++-+-					+		+	+-+
A8830	Remove fencing and Traffic Management	1 10-Nov-09	11-Nov-09	38											
Varieties.	Telegraphic Indianagement	V 4840/20193		100							24-Fe	b-10, Phas	e 4		
ase 4		64 11-Nov-09	24-Feb-10	108											
1st half		50 11-Nov-09	04-Feb-10	17							D4-Feb	-10, 1st hal			
A8840	Establish Traffic Management & Temp. Fencing	2 11-Nov-09	13-Nov-09	38						1					П
A8850	Excavate box	1 13-Nov-09	16-Nov-09	38			TIII			0		TIII		TIT	
A8860	Excavate, lay and concrete ducts	2 16-Nov-09	18-Nov-09	38						1					
A8870	Excavate and construct OLE bases	2 16-Nov-09	18-Nov-09	38						1					
A8890	Set Track (30m)	4 21-Jan-10	27-Jan-10	17						0					
A8900	Place upper concrete and cure	4 26-Jan-10	01-Feb-10	17											
A8910	Street Surface finishes	3 01-Feb-10	04-Feb-10	17			1111				+++	++++		1-1-1-	11
2nd half	To approximate (1975) 1985 (1985) 1985 (19	14 04-Feb-10	24-Feb-10	108					•		₩ 24-Pe	b-10, 2nd I	naif		
A8920	Excavate box	1 04-Feb-10	05-Feb-10	17											1
A8930	Excavate, lay and concrete ducts	2 05-Feb-10	09-Feb-10	17											
3213000A	SCOOL SHIP DANNE WAS TRESTON SERVICE FOR	FILL DESAR TOO ASK	Beddinger						11:1		0				
A8960	Set Track	4 09-Feb-10	15-Feb-10	17											
A8970	Place upper concrete and cure	4 12-Feb-10	18-Feb-10	108						•	0				
A8980	Street Surface finishes	3 18-Feb-10	23-Feb-10	108						•	0				
A8990	Remove fencing and Traffic Management	1 23-Feb-10	24-Feb-10	108						•	1				
es Street Ch 280-0,	1980-1360	204 03-Feb-09	20-Nov-09	165			1			▼ 20-N	ov-09, Prin	nces Street	Ch 280-0,	1980-1360)
ase 1		204 03-Feb-09	20-Nov-09	165			-	HH		▼ 20-N	ov-09, Phi	ise 1			
A13760	Establish Traffic Management & Temp, Fencing	2 03-Feb-09	04-Feb-09	57	HHH			iiiii			TTT	1 1 1		1111	11
A13770	Excavate box	36 05-Feb-09	26-Mar-09	57											
	Excavate, lay and concrete ducts	54 12-Feb-09	29-Apr-09	242											
A13780		2000 (A-C) D470(A)	100 MARKET 1970 1970 1970 1970 1970 1970 1970 1970	10010001111		1 1 1	5 5 5 4		1 1 1 1	10 10 1	1 1 1	1 1 1	1 1 1 1	1 1 1	1 1



Reset Gullies Surface new channel Pavement Works White Lines Street Lighting / Traffic Signals / Road Signs Remove fencing and Traffic Management Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation Construct Kerb lines	1 05-Feb-09 1 06-Feb-09 15 05-Feb-09 1 09-Feb-09 3 05-Feb-09 1 12-Feb-09 22 18-Jun-09	05-Feb-09 06-Feb-09 25-Feb-09 09-Feb-09 12-Feb-09 20-Jul-09	59 59 57 59 59	FMAM	JJAS		F M A	MIVE	AS	O N C	JF	MA	MJJ	JAS	ON	J D I	JEM	AM	J	AS	0
Surface new channel Pavement Works White Lines Street Lighting / Traffic Signals / Road Signs Remove fencing and Traffic Management Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation	1 06-Feb-09 15 05-Feb-09 1 09-Feb-09 3 05-Feb-09 1 12-Feb-09 22 18-Jun-09 2 18-Jun-09	06-Feb-09 25-Feb-09 09-Feb-09 09-Feb-09 12-Feb-09	59 57 59																		
Pavement Works White Lines Street Lighting / Traffic Signals / Road Signs Remove fencing and Traffic Management Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation	15 05-Feb-09 1 09-Feb-09 3 05-Feb-09 1 12-Feb-09 22 18-Jun-09 2 18-Jun-09	25-Feb-09 09-Feb-09 09-Feb-09 12-Feb-09	57 59 59																		
White Lines Street Lighting / Traffic Signals / Road Signs Remove fencing and Traffic Management Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation	1 09-Feb-09 3 05-Feb-09 1 12-Feb-09 22 18-Jun-09 2 18-Jun-09	09-Feb-09 09-Feb-09 12-Feb-09	59 59									++							ļ.ļ		
Street Lighting / Traffic Signals / Road Signs Remove fencing and Traffic Management Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation	3 05-Feb-09 1 12-Feb-09 22 18-Jun-09 2 18-Jun-09	09-Feb-09 12-Feb-09	59				III												R R		1
Remove fencing and Traffic Management Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation	1 12-Feb-09 22 18-Jun-09 2 18-Jun-09	12-Feb-09			1 11									10 15 V	18 18 17	8 8 1	2 6 7	1 1 1			
Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation	22 18-Jun-09 2 18-Jun-09		57		1 1 1	111	1														
Remove island surfacing and exc. to formation	2 18-Jun-09	20-Jul-09					1														1
Remove island surfacing and exc. to formation	77/11/AP-20/89/20/20/20		38					-	20-Jul-	09, Ph	ase 4a										
5		22-Jun-09	14				111.														
Construct Kerb lines	5 22-Jun-09	29-Jun-09	14		1-1-1-1	++++	hh.	Q	hhh	++	111	++				H	1		++-		
TO CONTRACT THE CONTRACT OF TH	4 29-Jun-09	03-Jul-09	14				•	. 0													
Move Gullies	2 03-Jul-09	07-Jul-09	14					. 8													
Sub base	3 07-Jul-09	10-Jul-09	14				٠.														-
The second secon	20 100,000,000,000	13-Jul-09				111															
	AT SAFESSITESS	1205040.0000	107.0			444.	!!!!		-		1	44		ļ		ļļ	ļ	ļ	ļ.ļ		1
																					-
THE STREET	10 RC990523784	1 h (2000 M (3 / 2000)	1000					• •													-
White Lines	1 16-Jul-09	17-Jul-09	14					• "													-
Street Lighting / Traffic Signals / Road Signs	7 03-Jul-09	14-Jul-09	17					- 0													-
Remove fencing and Traffic Management	1 17-Jul-09	20-Jul-09	14					• !								Ш					
	43 20-Jul-09	18-Sep-09	16			1111	ĦĦ		_	18-Sep	-09, Pha	se 4b		1					ΪĪ		-
Establish Traffic Management & Temp. Fencing	2 20-Jul-09	22-Jul-09	14					. 1													-
Remove island surfacing and exc. to formation	1 22-Jul-09	23-Jul-09	14																		
Construct Kerb lines	4 23-Jul-09	29-Jul-09	14						0												
Move Gullies	2 29-Jul-09	31-Jul-09	14					٠,	•												
Sub base	3 31-Jul-09	09-Sep-09	14		+++	+++-	HH			++	1-1-1	++	++-		++	h-			<u> </u>		1000
Plane off wearing course	1 09-Sep-09	10-Sep-09	14						1												
	A CITE CELACORO	Decimentality (17.0						0												
								•				11									
Language Control Contr	OACH PADORONI (1)	1.102553300000000	1000						П.												
		1.00																			-
Street Lighting / Traffic Signals / Road Signs	7 29-Jul-09	11-Sep-09	17																		-
Remove fencing and Traffic Management	1 16-Sep-09	17-Sep-09	14						1												-
	39 17-Nov-09	26-Jan-10	307							•	26	Jan-1	0 Phas	se 6b							1
Establish Traffic Management & Temp. Fencing	2 17-Nov-09	19-Nov-09	264						∐÷	1											-
Excavate for new channel and kerb line / remove	2 19-Nov-09	23-Nov-09	264						Πi	1											
Construct Kerb lines	5 23-Nov-09	04-Jan-10	264		+++++		1-1-1-			=	-	++		1			1		11.		1
	Establish Traffic Management & Temp. Fencing Remove island surfacing and exc. to formation Construct Kerb lines Move Gullies Sub base Plane off wearing course Roadbase/base course/wearing course/temp ramps Pavement Works White Lines Street Lighting / Traffic Signals / Road Signs Remove fencing and Traffic Management Establish Traffic Management & Temp. Fencing Excavate for new channel and kerb line / remove existing kerbs	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 Pavement Works 6 03-Jul-09 13-Jul-09 White Lines 1 16-Jul-09 17-Jul-09 Street Lighting / Traffic Signals / Road Signs 7 03-Jul-09 14-Jul-09 Remove fencing and Traffic Management 1 17-Jul-09 20-Jul-09 Establish Traffic Management & Temp. Fencing 2 20-Jul-09 18-Sep-09 Establish Traffic Management & Temp. Fencing 2 20-Jul-09 22-Jul-09 Remove island surfacing and exc. to formation 1 22-Jul-09 23-Jul-09 Construct Kerb lines 4 23-Jul-09 29-Jul-09 Move Guillies 2 29-Jul-09 31-Jul-09 Sub base 3 31-Jul-09 09-Sep-09 Piane off wearing course 1 09-Sep-09 10-Sep-09 Roadbase/base course/wearing course/temp ramps 3 10-Sep-09 15-Sep-09 Pavement Works 12 29-Jul-09 18-Sep-09 White Lines 1 15-Sep-09 16-Sep-09 Street Lighting / Traffic Signals / Road Signs 7 29-Jul-09 11-Sep-09 Remove fencing and Traffic Management 1 16-Sep-0	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 14 15-Jul-09 14 15-Jul-09 18 16-Jul-09 17 18 16-Jul-09 17 18 17-Jul-09 14 17-Jul-09 14 17-Jul-09 17 17-Jul-09 17 17-Jul-09 18 17-Jul-09 19 19 19 19 19 19 19	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14 Pavement Works 6 6 03-Jul-09 13-Jul-09 15 White Lines 1 1 16-Jul-09 17-Jul-09 14 Street Lighting / Traffic Signals / Road Signs 7 03-Jul-09 14 Street Lighting / Traffic Management 1 1 77-Jul-09 14 43 20-Jul-09 18-Sep-09 16 Establish Traffic Management & Temp. Fencing 2 20-Jul-09 14 Remove fisland surfacing and exc. to formation 1 22-Jul-09 23-Jul-09 14 Romove Island surfacing and exc. to formation 1 22-Jul-09 29-Jul-09 14 Move Guilles 2 29-Jul-09 31-Jul-09 09-Sep-09 16 Sub base 3 31-Jul-09 09-Sep-09 16 Roadbase/base course/wearing course/temp ramps 3 10-Sep-09 16-Sep-09 16-Sep-09 16-Sep-09 16-Sep-09 17 Roadbase/base course/wearing course/temp ramps 3 10-Sep-09 16-Sep-09 16-Sep-09 17 Remove finding / Traffic Signals / Road Signs 7 29-Jul-09 11-Sep-09 17 Remove fencing and Traffic Management 1 16-Sep-09 11-Sep-09 16-Sep-09 17 Remove fencing and Traffic Management 1 16-Sep-09 11-Sep-09 17 Remove fencing and Traffic Management 2 29-Jul-09 11-Sep-09 17 Remove fencing and Traffic Management 3 10-Sep-09 11-Sep-09 17 Remove fencing and Traffic Management 5 18-Nov-09 28-Jan-10 307 Establish Traffic Management 6 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 2 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 3 17-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 9 19-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 9 19-Nov-09 264 Establish Traffic Management 8 Temp. Fencing 9 19-Nov-09 264	Readbase/base course/wearing course/temp ramps 3 13-Jul-09 14	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14	Roadbase/base course/wearing course/temp ramps	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14 Pavement Works 6 03-Jul-09 13-Jul-09 18 White Lines 1 16-Jul-00 17-Jul-09 14 Street Lighting / Traffic Signals / Road Signs 7 03-Jul-09 17 Remove fending and Traffic Management 1 17-Jul-09 20-Jul-09 14 Establish Traffic Management & Temp. Fending 2 20-Jul-09 22-Jul-09 14 Remove island surfacing and exc. to formation 1 22-Jul-09 23-Jul-09 14 Remove island surfacing and exc. to formation 1 22-Jul-09 23-Jul-09 14 Construct Kerb lines 4 23-Jul-09 23-Jul-09 14 Sub-base 1 33-Jul-09 09-Sep-09 14 Sub-base 1 09-Sep-09 10-Sep-09 14 Roadbase-base course/wearing course 1 09-Sep-09 10-Sep-09 14 Roadbase-base course/wearing course/temp ramps 3 10-Sep-09 16-Sep-09 16 Roadbase-base course/wearing course/temp ramps 3 10-Sep-09 16-Sep-09 16 Street Lighting / Traffic Signals / Road Signs 7 29-Jul-09 11-Sep-09 17 Remove fending and Traffic Management 1 16-Sep-09 17-Sep-09 14 Street Lighting / Traffic Signals / Road Signs 7 29-Jul-09 19-Nov-09 26-Jul-09 26-Jul-09 26-Jul-09 19-Nov-09 26-Jul-09 26-Jul	Roadbase/base course/wearing course/temp ramps 3 13-Jul-09 14 Pavement Works 6 03-Jul-09 15 White Lines 1 16-Jul-09 17-Jul-09 14 Street Lighting / Traffic Signals / Road Signs 7 03-Jul-09 14 Street Lighting / Traffic Signals / Road Signs 7 03-Jul-09 14 Street Lighting / Traffic Signals / Road Signs 7 03-Jul-09 14 ### 17-Jul-09 20-Jul-09 15 Establish Traffic Management 8 Temp. Fencing 2 20-Jul-09 22-Jul-09 14 #### 18-Sep-09 15 Establish Traffic Management 8 Temp. Fencing 2 20-Jul-09 22-Jul-09 14 #### 23-Jul-09 23-Jul-09 14 #### 23-Jul-09 23-Jul-09 14 ### 23-Jul-09 31-Jul-09 14 ### 18-Sep-09 15 ### 18-Sep-09 16 ### 18-Sep-09 16	Roadbasebase course/wearing course/temp ramps 3 13-Jul-09 16-Jul-09 14 Pavement Works 6 03-Jul-09 13-Jul-09 18 White Lines 1 16-Jul-09 17 Remove frending and Traffic Management 1 17-Jul-09 20-Jul-09 14 Establish Traffic Management 1 17-Jul-09 20-Jul-09 14 Establish Traffic Management 1 17-Jul-09 20-Jul-09 14 Establish Traffic Management 2 20-Jul-09 22-Jul-09 14 Remove Island surfacing and ext. to formation 1 22-Jul-09 22-Jul-09 14 Remove Island surfacing and ext. to formation 1 22-Jul-09 23-Jul-09 14 Move Guilles 2 29-Jul-09 31-Jul-09 14 Move Guilles 2 29-Jul-09 31-Jul-09 14 Move Guilles 3 31-Jul-09 09-Sep-09 14 Pare off wearing course 1 09-Sep-09 15-Sep-09 14 Pare off wearing course 1 10-Sep-09 15-Sep-09 16 White Lines 1 16-Sep-09 18-Sep-09 16 White Lines 1 16-Sep-09 18-Sep-09 16 Street Lighting / Traffic Signals / Road Signs 7 29-Jul-09 11-Sep-09 16 Street Lighting / Traffic Signals / Road Signs 7 29-Jul-09 11-Sep-09 16 Establish Traffic Management 1 16-Sep-09 18-Sep-09 16 Establish Traffic Management 1 16-Sep-09 18-Sep-09 16 Street Lighting / Traffic Signals / Road Signs 7 29-Jul-09 25-Jan-10 307 Establish Traffic Management 1 16-Sep-09 25-Jan-10 307 Establish Traffic Management 2 17-Nov-09 25-Jan-10 264 Establish Traffic Management 2 17-Nov-09 284 Establish Traffic Management 2 17-Nov-09 284 Establish Traffic Management 3 23-Nov-09 04-Jan-10 264

		Activity Name	Original Start Duration	Finish	Total Float			4 Qtr 1 Qt	r2 Qtr3	Qtr 4 Qtr	1 Qtr 2	Qtr 3	Qtr 4 Q	tr 1 Q		tr 3
	A7270	Reset Gullies	5 24-Nov-09	05-Jan-10	276	I F M A M	JJASOF	DJFMA	WIJIJA SI	DNDJF	M AM	JASC	ונוטואוכ	FMA	Majaj	AS
-	A7280	Surface new channel	2 05-Jan-10	07-Jan-10	276											1
	A7290	Pavement Works	15 04-Jan-10	25-Jan-10	264											1
	A7310	Street Lighting / Traffic Signals / Road Signs	7 04-Jan-10	13-Jan-10	272				7	. 0						
	A7315	Remove fencing and Traffic Management	1 25-Jan-10	26-Jan-10	264		+	+++++			++++	+++-	++++		+++	4
	Phase 7		15 01-Mar-10	22-Mar-10	283						22-Ma	r-10, Phase	7			
1	A7320	Establish Traffic Management & Temp. Fencing	2 01-Mar-10	03-Mar-10	240											
										1111						
	A7330	Replace north junction kerb line	6 03-Mar-10	11-Mar-10	240					• •						
	A7340	Rebuild splitter island	6 11-Mar-10	19-Mar-10	240					. —	0					
	A7350	White Lines / Traffic Signals / Road Signs	4 03-Mar-10	09-Mar-10	248						•					
	A7355	Remove fencing and Traffic Management	1 19-Mar-10	22-Mar-10	240						0				111	
	Torphicen Ch 1125-94	40	71 18-Jun-10	28-Sep-10	159							111	28-Sep-10	, Torphice	n Ch 112	5-94
	Phase 3		71 18-Jun-10	28-Sep-10	159								28-Sep-10	Phase 3		-
1	North Pavement		13 18-Jun-10	07-Jul-10	183							7 07-Jul-1	0 North Pa	vement		-
П	A7680	Establish Traffic Management & Temp. Fencing	2 18-Jun-10	22-Jun-10	140	+++++	11111	ttttt	1-1-1-1-1	THIT	11:11		++++		ΤĦ	Ť
Ш	A7690	Replace north kerb line	10 22-Jun-10	06-Jul-10	140							0				-
Ш	A7695	Remove fencing and Traffic Management	1 06-Jul-10	07-Jul-10	140							1				
П	South Pavement	t	14 07-Jul-10	27-Jul-10	183							27-Jul	-10, South	Pavement		
П	A7700	Establish Traffic Management & Temp. Fencing	2 07-Jul-10	09-Jul-10	140											1
	A7710	Excavate for new channel and kerb line / remove	2 09-Jul-10	13-Jul-10	140			 - - - - -			!-!:-!- !-				444	
П	1696202016	existing kerbs	29 Disease0 (00)	13185256507056	07,595											1
П	A7720	Construct Kerb lines	3 13-Jul-10	16-Jul-10	140											
	A7730	Reset Gullies	2 16-Jul-10	20-Jul-10	140											
П	A7740	Surface new channel	1 20-Jul-10	21-Jul-10	140											
Ш	A7750	Pavement Works	7 16-Jul-10	27-Jul-10	140							0				
Ш	A7760	Street Lighting / Traffic Signals / Road Signs	3 16-Jul-10	21-Jul-10	140							•				
	A7765	Remove fencing and Traffic Management	1 21-Jul-10	22-Jul-10	140							1				
Ш	Splitter Island		47 22-Jul-10	28-Sep-10	159							-	28-Sep-10	, Splitter Is	and	
П	A7770	Establish Traffic Management & Temp. Fencing	2 22-Jul-10	26-Jul-10	140							8				
	A7780	Excavate for new channel and kerb line / remove	2 26-Jul-10	28-Jul-10	140							1				
	A7790	existing kerbs Construct Kerb lines	4 27-Jul-10	06-Sep-10	140	+++++	+++++	1111111		11111	ttiti		11111		+++	+
	A7800	Reset Gullies	4 28-Jul-10	07-Sep-10	145											-
	A7810	Surface new channel	1 07-Sep-10	08-Sep-10	145						1 1	1				-
	A7820	Pavement Works	16 06-Sep-10	28-Sep-10	140											-
	A7830	Street Lighting / Traffic Signals / Road Signs	3 06-Sep-10	09-Sep-10	144						-				111	1
	A7630	Sueet agriting / Hartic Signals / Road Signs	3 00-Sep-10	09-3ep-10	144										111	1
	Revisi	ion Checked Approved	Page 33 of 56	1 <u>-</u>	100	Possiins -	Art alla	wis -	College	empinis s 187	rl 1/24 *	A LIMA	Paneline **	filoste		
/34 D	Design Programme plus					The software is	Actual Wo			emaining Wo eline Mileston		◆ V31 ◆ Mile:	Baseline M	шемопе	X	▼ S

	Activity Name	Original Start Duration	Finish		2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qt JJASONDJFMAMJJASON	T4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr ND JFM AM J JAS OND JFM AM
A7835	Remove fencing and Traffic Management	1 15-Sep-10	16-Sep-10	140		. 1
Vest Maitland Ch 940	-850	19 24-Mar-10	21-Apr-10	27		21-Apr-10, West Maitland Ch 940-850
Phase 1	- -	19 24-Mar-10	21-Apr-10	27		21-Apr-10, Phase 1
South Pavement		11 24-Mar-10	09-Apr- 10	27		₩ 09-Apr-10, South Pavement
A7840	Establish Traffic Management & Temp. Fencing	2 24-Mar-10	26-Mar-10	27		
A7850	Excavate for new channel and kerb line / remove	2 26-Mar-10	30-Mar-10	27		+
A7860	existing kerbs Construct Kerb lines	4 29-Mar-10	05-Apr-10	27		[. o
A7870	Reset Gullies	4 30-Mar-10	06-Apr-10	27		
A7880	Surface new channel	2 06-Apr-10	08-Apr-10	27		
A7885	Remove fencing and Traffic Management	1 08-Apr-10	09-Apr-10	27		
North Pavement		8 09-Apr-10	21-Apr-10	27	┍┩╸<mark>╏</mark>╌╏╌╏╌╏╌╏╌╏╌╏ ╌╏╌┩╌╂╌╂╌╂╌╂╌╂╌╏╌╏╌╏╌╏	21-Apr-10, North Pavement
A7890	Establish Traffic Management & Temp. Fencing	2 09-Apr-10	13-Apr-10	27		
A7900	Excavate for new channel and kerb line / remove	1 13-Apr-10	14-Apr-10	27		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A7910	existing kerbs Construct Kerb lines	2 14-Apr-10	16-Apr-10	27		
A7920	Reset Gullies	1 16-Apr-10	19-Apr-10	27		
A7930	Surface new channel	1 19-Apr-10	20-Apr-10	27		
A7935	Remove fencing and Traffic Management	1 20-Apr-10	21-Apr-10	27		
andwick Ch 850-44	SERVICE AND THE PROPERTY OF TH	74 25-Nov-09	24-Mar-10	27		24-Mar-10, Shandwick Ch. 850-440
Phase 1	8	74 25-Nov-09	24-Mar-10	27		▼ 24-Mar-10; Phase 1
A8180	Establish Traffic Management & Temp, Fencing	2 25-Nov-09	27-Nov-09	27		
A8190		18 27-Nov-09	27-Nov-09 27-Jan-10	27		
	Excavate for new channel and kerb line / remove existing kerbs					7
A8200	Construct Kerb lines	23 06-Jan-10	08-Feb-10	27		
A8210	Reset Gullies	15 20-Jan-10	10-Feb-10	47		
A8220	Surface new channel	9 10-Feb-10	23-Feb-10	47		- I <u>- I</u> I I I I I I I I I I I I I I I I I I
A8230	Pavement Works	31 08-Feb-10	23-Mar-10	27		
A8240	Street Lighting / Traffic Signals / Road Signs	7 08-Feb-10	17-Feb-10	51	<u>-</u> '	
A8245	Remove fencing and Traffic Management	1 23-Mar-10	24-Mar-10	27		
work		460 01-Aug-08	18-Jun-10	29	<u> </u>	18-Jun-10, Trackwork
20	Issue Construction Drawings	0	01-Aug-08*	0	◆ 01-Aug-08*, Issue Construction Drawings	
market Ch 1250-11	125	256 13-Feb-09	01-Mar-10	21		01-Mar-10, Haymarket Ch 1250-1125
Phase 3		86 13-Feb-09	18-Jun-09	14	18-Jun-09, P	
1st half		70 13-Feb-09	27-May-09	2	▼ 27-May-09, 1st	half
A6570	Establish Traffic Management & Temp. Fencing	2 13-Feb-09	16-Feb-09	57		
A6580	Excavate box	1 17-Feb-09	17-Feb-09	57		
	- K		a ha	· U i i i		
Revisi	on Checked Approved progress to 01 Aug 08 scs	Page 34 of 55	i 16 <u>—</u>	■ V26 Baseline	Actual Work Critical Rem	aining Work V34 V31 Baseline Milestone

		Activity Name	Original Start Duration	Finish	Total Float	Otr 1	LO	200		Qtr 4	0	fr 1		2009 Of	3	Otr 4	Otr	GU.		2010	fr 3	Otr 4	1 0	off 1		2011 2 Qtr	3	Ot
			1.000			Ital				ON																		
•	A6590	Excavate, lay and concrete ducts	2 18-Feb-09	19-Feb-09	57					H	11			1.1				11	11						11		11	1
	A6600	Excavate and construct OLE bases	2 18-Feb-09	19-Feb-09	57					Ш		!	П		H	H	П	П	H							11	H	-
	A6620	Set Track (54m)	4 12-May-09	18-May-09	2								0				П	H	11									
п	A6630	Place upper concrete and cure	4 15-May-09	21-May-09	2										П									Ш				
	A6640	Street Surface finishes	3 21-May-09	27-May-09	2								0			1									1000	1	1	*****
	2nd half	- W	16 27-May-09	18-Jun-09	14							•		18- J	un-09	, 2nd h	alf							Ш				
	A6650	Excavate box	1 27-May-09	28-May-09	2		44	++	++	111	++	++	f		11	11	Ħ	++	14	Ħ				HH	++	++	Ħ	
•	A6660	Excavate, lay and concrete ducts	2 28-May-09	01-Jun-09	2								8				H											*****
	A6690	Set Track	4 03-Jun-09	09-Jun-09	0							1	. ,	ı			Н	П										
•	A6700	Place upper concrete and cure	4 08-Jun-09	12-Jun-09	14							٠.	. 1 1															
•	A6710	Street Surface finishes	3 12-Jun-09	17-Jun-09	14							1			П													-
	A6720	Remove fencing and Traffic Management	1 17-Jun-09	18-Jun-09	14		44	4		 - - 			144		44	<u></u>	ļ.,	+	++							44	44	
•	Phase 5	Trains is is is is a second in the interest of	43 17-Sep-09	17-Nov-09	53							11			_	1	7-Nov	-09 F	hase	5								
•	STENSIES SW		(A) 20 30000A	Total Control of the	- 355	11									1 1	1 1	1 1	11	1									
•	1st half	-	29 17-Sep-09	28-Oct-09	16											₹ 28-	ou-u	9, 151	iean							11		
	A6920	Establish Traffic Management & Temp. Fe	ncing 2 17-Sep-09	21-Sep-09	14									•	1									111		11		
•	A6940	Excavate box	1 21-Sep-09	22-Sep-09	14									. !	1		11									11	11	
•	A6950	Excavate, lay and concrete ducts	2 22-Sep-09	24-Sep-09	14	m	11			111	11	11	11		1	H	11	11	11	11		1			11	11	11	
•	A6960	Excavate and construct OLE bases	2 22-Sep-09	24-Sep-09	14										1			П										-
	A6980	Set Track (54m)	4 14-Oct-09	20-Oct-09	0										1	1		П										
•	A6990	Place upper concrete and cure	4 19-Oct-09	23-Oct-09	16									1														
•	A7000	Street Surface finishes	3 23-Oct-09	28-Oct-09	16											0		П						Ш				
•	2nd half		14 28-Oct-09	17-Nov-09	53	H	++	1		+++	++	++	++		++	** 1	7-Nov	-09, 2	nd ha	fr				riri	++	++	++-	
•	A7010	Excavate box	1 28-Oct-09	29-Oct-09	16									11	11	i								Ш			1	-
•	A7020	Excavate, lay and concrete ducts	2 29-Oct-09	02-Nov-09	16		П							ľ.	11	0								Ш				
•	A7050	Set Track	4 02-Nov-09	06-Nov-09	16											8	П											****
	A7060	Place upper concrete and cure	4 05-Nov-09	11-Nov-09	37	H								•		1								Ш				-
	A7070	Street Surface finishes	3 11-Nov-09	16-Nov-09	39	1.1.							-			0			-							++		
	A7075	Remove fencing and Traffic Management	400 COM LANCON CO.	17-Nov-09	39	11 1								•		1												
•	Phase 6a		63 17-Nov-09	01-Mar-10	21							Ш			П	-	H	01	-Mar-	10, Ph	nase 6	Sa .						
	1st half		49 17-Nov-09	09-Feb-10	18						-					_	Ц,	09+F	eb-10	1st h	nalf			Ш				
	A7080	Establish Traffic Management & Temp. Fe		19-Nov-09	39				1				1															
	0.000					1.1.				1-1-1				+	+ .		ĮĮ	14								44	11.	+
	A7100	Excavate box	1 19-Nov-09	20-Nov-09	39	11 1		1	1						1											11		-
	A7110	Excavate, lay and concrete ducts	2 20-Nov-09	24-Nov-09	39	1 1			2						•										1			
	A7120	Excavate and construct OLE bases	2 20-Nov-09	24-Nov-09	39				1				Ш			1								Ш		11	11	-
Т	Revis	sion Checked	Approved Page 35 of 55	F T-	14/12/20		200		V-0200		ž.			100000		comana	o o grand		1997			4.0	***	201100	225 142		- 0	αν
V3	34 Design Programme plus		, age 03 01 00	690		Baseli	ine [ual Work		OWED I		Cri		emaini	ng Wo leston		4	3	◆ A3	Base	aine N	mestor	e V		Sumr	ma

	Activity Name	Original Start Duration	Finish			Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2
A7140	Set Track (54m)	3 27-Jan-10	01-Feb-10	18 18	SONDJFMAMJ	JASOND JEMAMJ JASOND JEMAM
A7150	Place upper concrete and cure	3 01-Feb-10	04-Feb-10	18		Î.,
A7160	Street Surface finishes	3 04-Feb-10	09-Feb-10	18		
2nd half		14 09-Feb-10	01-Mar-10	21		▼▼ 01-Mar-10, 2nd half
A7170	Excavate box	1 09-Feb-10	10-Feb-10	18		
47.00.00	PO AMERICAN PROPERTY.	70 - 389999000000000000000000000000000000000	12-Feb-10	18		
A7180	Excavate, lay and concrete ducts	2 10-Feb-10				
A7210	Set Track	3 15-Feb-10	18-Feb-10	17		
A7220	Place upper concrete and cure	3 18-Feb-10	23-Feb-10	21		
A7230	Street Surface finishes	3 23-Feb-10	26-Feb-10	21		
A7235	Remove fencing and Traffic Management	1 26-Feb-10	01-Mar-10	21		
phicen Ch 1125-94	0	206 18-Jun-09	21-Apr-10	69	 	21-Apr-10, Torphiceh Ch 1125-940
Phase 1		150 18-Jun-09	01-Feb-10	41	 	♥ 01-Feb-10, Phase 1
1st half		99 18-Jun-09	05-Nov-09	48	⊦⊦⊦⊹⊹⊹ -	05-Nov-09, fst half
A7360	Establish Traffic Management & Temp. Fencing	2 18-Jun-09	22-Jun-09	54		
A7380	Excavate box	3 22-Jun-09	25-Jun-09	54		
A7390	Excavate, lay and concrete ducts	4 25-Jun-09	01-Jul-09	54		
A7400	Excavate and construct OLE bases	4 25-Jun-09	01-Jul-09	54		
A7420		200000000000000000000000000000000000000	28-Oct-09	0		
	Set Track (145m)	6 20-Oct-09				7 12 1 1 1 1 1 1 1 1
A7430	Place upper concrete and cure	6 23-Oct-09	02-Nov-09	34		· []
A7440	Street Surface finishes	3 02-Nov-09	05-Nov-09	34		.{
2nd half		51 05-Nov-09	01-Feb-10	41		▼ 01-Feb-10, 2nd half
A7450	Excavate box	3 05-Nov-09	10-Nov-09	34		
A7460	Excavate, lay and concrete ducts	4 10-Nov-09	16-Nov-09	34		
A7490	Set Track	6 13-Jan-10	21-Jan-10	17		
A7500	Place upper concrete and cure	6 18-Jan-10	26-Jan-10	41		
A7510	Street Surface finishes	3 26-Jan-10	29-Jan-10	41		
A7515	Remove fencing and Traffic Management	1 29-Jan-10	01-Feb-10	41		
Phase 2	To have a second and the second and	36 01-Mar-10	21-Apr-10	69		▼ 21-Apr-10, Phase 2
1st half		17 01-Mar-10	24-Mar-10	24		24-Mar-10, 1st half
A7520	Establish Traffic Management & Temp. Fencing	2 01-Mar-10	03-Mar-10	21		
A7540	Excavate box	1 03-Mar-10	04-Mar-10	21		
Capitolica A	or national reconstructions.		08-Mar-10			
A7550	Excavate, lay and concrete ducts	2 04-Mar-10	PERMISSI DEC	21		
A7560	Excavate and construct OLE bases	2 04-Mar-10	08-Mar-10	21		
A7580	Set Track (40m)	4 10-Mar-10	16-Mar-10	19		_ 1 1 - 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	Activity Name	Original Start Duration	Finish		r 1 Qtr 2 Qtr 3		2009 2tr 2 Qtr 3 Q		Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2
A7590	Place upper concrete and cure	4 15-Mar-10	19-Mar-10	24	MAMJJAS	OINDIJIIMA	MIJIJAISO	- I	AMJJASONDJEMAM
A7600	Street Surface finishes	3 19-Mar-10	24-Mar-10	24					
2nd half	-1.	19 24-Mar-10	21-Apr-10	69				1111,	21-Apr-10, 2nd half
A7610	Excavate box	1 24-Mar-10	25-Mar-10	24	+	+++++		ddid	
A7620	Excavate, lay and concrete ducts	2 25-Mar-10	29-Mar-10	24				11111	
A7650	Set Track	4 06-Apr-10	12-Apr-10	19				1111	
	- MANUAL WATER WAT		/0	1				1 1 1 1	
A7660	Place upper concrete and cure	4 09-Apr-10	15-Apr-10	69					
A7670	Street Surface finishes	3 15-Apr-10	20-Apr-10	69					<u> </u>
A7675	Remove fencing and Traffic Management	1 20-Apr-10	21-Apr-10	69				11.1	
est Mailtland Ch 940	850	40 21-Apr-10	18-Jun-10	29					18-Jun-10, West Maitland Ch 940-
Phases 2 & 3		40 21-Apr-10	18-Jun-10	29					18-Jun-10, Phases 2 & 3
1st half		22 21-Apr-10	24-May-10	22					24-May-10, 1st half
A7940	Establish Traffic Management & Temp. Fencing	2 21-Apr-10	23-Apr-10	27					
A7960	Excavate box	2 23-Apr-10	27-Apr-10	27		+++++			
A7970	Excavate, lay and concrete ducts	3 27-Apr-10	30-Apr-10	27					
A7980	Excavate and construct OLE bases	3 27-Apr-10	30-Apr-10	27					
A8000	Set Track (90m)	4 10-May-10	14-May-10	22					
A8010	000000 00000 0000 0000 0000 0000 0000 0000	50 1980/90 1 USS							
	Place upper concrete and cure	4 13-May-10	19-May-10	22					
A8020	Street Surface finishes	3 19-May-10	24-May-10	22					
2nd half		18 24-May-10	18-Jun-10	29					18-Jun-10, 2nd half
A8030	Excavate box	2 24-May-10	26-May-10	22					
A8040	Excavate, lay and concrete ducts	3 26-May-10	01-Jun-10	22					0
A8070	Set Track	4 03-Jun-10	09-Jun-10	20					
A8080	Place upper concrete and cure	4 08-Jun-10	14-Jun-10	29		Titii		THE	
A8090	Street Surface finishes	3 14-Jun-10	17-Jun-10	29					.
A8095	Remove fencing and Traffic Management	1 17-Jun-10	18-Jun-10	29					
andwick Place Ch 8	50-440	94 25-Nov-09	22-Apr-10	17				****	22-Apr-10, Shandwick Place Ch 850-440
Phase 1		94 25-Nov-09	22-Apr-10	17					22-Apr-10, Phase 1
A8100	Establish Traffic Management & Temp. Fencing	2 25-Nov-09	27-Nov-09	36	4-4-4-4-4-4-4			·	
A8110	Excavate box	17 27-Nov-09	26-Jan-10	36					
				1			-		
A8120	Excavate, lay and concrete ducts	24 06-Jan-10	09-Feb-10	36					
A8130	Excavate and construct OLE bases	24 06-Jan-10	09-Feb-10	36					
A8150	Set Track (410m)	31 18-Feb-10	05-Apr-10	17			نے ا		
	Place Upper Concrete and Cure	31 23-Feb-10	08-Apr-10	26		THITT			

