Turner & Townsend





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> Edinburgh Tram Project Full Progress Report No. 16 8th December 2012 to 5th January 2013 FINAL



Progress Report No. 16 - 8th December to 5th January 2013

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Rev	Originator	Approved	Date	
0	Shirley-Anne Collin	Rob Leech	18 th January 2013	
1	Shirley-Anne Collin	Rob Leech	21 st January 2013	

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1 Executive Summary

This report covers progress made during the period from 8th December 2012 to 5th January 2013. It should be noted that it was agreed that Infraco would not submit a Progress Report for Period 5-9 in December. Period 5-9 is to be covered in a combined period report due after the cut off date of this report. Consequently this report is drawing on Turner & Townsend's analysis of progress in the Period. There was also no report provided by CAF; however a verbal update was given at the last Progress Meeting held 8th January 2012.

In discussion with CEC it was agreed that Rob Leech will take over from Julian Weatherley as Director of Project Delivery from 7th January 2013. Julian will remain on the project until the end of January part time and will then be available in a supporting role should the need arise. The organisation chart is currently being updated to reflect this change and will be included in Progress Report No.17.

During the last period there was a considerable emphasis placed on preparing the construction sites for the Christmas / New Year shut down. This included a general clean up of the sites, temporary reduction of compounds where possible and enhancements to the fencing to make them more robust during this holiday period. The work resulted in the project only receiving one On call notification during the holiday.

There were four health & safety incidents recorded during the period, none of which were identified as serious or significant.

A review has been undertaken of the Bilfinger & Siemens report regarding the incidents involving two road rail Mobile Elevated Working Platforms (MEWPs) on the mini test track. The report which was prepared by Edinburgh Trams has now been received, with comments passed back to CEC. It is envisaged that a set of actions for implementation will be agreed by the 18th of January 2013.

Erosion of the 22 week cost engineering programme saving remains unchanged at 14 weeks. Turner & Townsend currently estimate that a further erosion of up to two weeks will result from the need to keep the bus station operational during the York Place works although this is being monitored closely.

The Sectional completion date for Section B remains on target for 8th March 2013 (the contract programme date). Turner & Townsend are continuing to forecast an overall project completion date of 19 April 2014, including the impact of risk and opportunity with a 57% probability of the Master Schedule completion date of 2 March being achieved. The critical path remains through Section 5A (Roseburn Junction to Balgreen Road).

Infraco has informed Turner & Townsend that the two tamping visits on the remainder of the Off Street section (Haymarket to the Depot) envisaged in the Rev 5 programme are now going to be carried out in one visit. Concerns were raised by Turner & Townsend/CEC that this may have a detrimental impact on the sectional completion dates, in discussion with Siemens however it was established that the tamper has been provisionally booked for a window in June/July. Discussions are ongoing to confirm that a date in early June can be achieved which is broadly in line with the Rev 5 dates, thus significantly reducing any impact on Sectional completion. What's more, Siemens are also considering re-sequencing post tamper activities such that any time lost can be recovered. This will continue to be scrutinised by Turner & Townsend.

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Discussions are ongoing with Turner & Townsend, Infraco and CEC in relation to the scope of Section B. This is nearing completion and a Section B tracker is being developed by Turner & Townsend covering all aspects of the works.

Enabling and utility legacy works have progressed well during the period and works are being completed to meet dates agreed with Infraco. Similarly street services utility conflicts (those outside the DKE+2m, road sign bases, traffic signal bases and associated ducting) are progressing well and work is being coordinated with Infraco to avoid/minimise disruption to the main works.

All On Street areas including York Place are now in the possession of Infraco with some minor exceptions agreed where residual works and/or street services conflict works are being carried out by McNicholas and/or Crummock. Infraco has continued with track slab construction in all areas and is making good progress with carriageway reconstruction between Haymarket and Lothian Road. Track laying continues to progress well. Of particular note is the progress Infraco has made in York Place since the sites were handed back to them. All critical blinding work was completed by Christmas and 35% of track slab has been completed.

The delays to the commencement of construction of the Cathedral Lane substation due to a redesign of the retaining wall at the perimeter of the site are being mitigated although the programme makes no allowance for risk and is being monitored on a weekly basis in conjunction with Infraco.

The recent introduction of the weekly steering group meeting with senior SW management has made a positive impact in progressing the key issues between the parties. Turner and Townsend and CEC are now focusing on consolidating this progress to determine an effective close down plan for this problematic interface.

Regarding the legacy works in Leith Walk and Constitution Street CEC has requested that Turner & Townsend propose a reduced workscope of critical legacy utility items for agreement with SW. In parallel Turner and Townsend have approached McNicholas regarding delivery of the revised workscope. CEC and Turner and Townsend anticipate works commencing mid Feb 2013 assuming agreement with SW can be reached by mid January 2013. Turner & Townsend are discussing with CEC how these works will be resourced.

Section 7 infrastructure was complete for tram testing with the first tram travelling along the section on the 12th of December 2012. Platform edges will need to be adjusted as it was found that these interfered with the tram envelope. Subsequent checks are now being made on the other tram stops that have been installed.

At Edinburgh Gateway King Post Wall construction has continued and piling for the overhead line masts will start mid January 2013. The attenuation tank has been backfilled and water tests have been successfully completed.

Further to the last report the manhole at Murrayfield has been lowered to enable the embankment works to progress. There has been a noticeable development in the height on both structures S21 B and D. It is anticipated that the sewer diversion works will commence on 21st January 2013 subject to SRU granting the necessary consents. McNicholas have been chosen to undertake the sewer diversion works due to the cost being less than Bilfinger and their experience of utility diversions.

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Discussions are ongoing between CEC and the Airport in relation to the resolution of issues at Eastfield Avenue Crossing with a Siemens promoted solution being favoured by all parties.

All 27 trams have now been delivered to the Gogar depot with 25 having completed testing on the mini test track.

CAF have issued a letter to Turner & Townsend detailing potential additional project costs in excess of £2M, due to the delay to the completion date between Rev 2 and Rev 5. Turner & Townsend have written to CAF requesting a meeting to discuss Turner & Townsend's assessment of the forecast dates for key activities; to allow both parties to better understand activities and interdependencies and therefore any potential delay costs. This meeting is due to take place in January 2013.

The progress of the Fare Collection system has been delayed due to the delay in signature of the contract. Parkeon have submitted a Client Change Notice to delay the 'Planned Acceptance Date' by four weeks as a result. Turner & Townsend are working with Parkeon to limit any further risk to project delivery.

The re-organisation of project assurance, with a number of responsibilities transferring from Turner & Townsend to the Operator, is nearing completion. Turner & Townsend has worked closely with Edinburgh Tram in agreeing the split of responsibilities and it is envisaged this exercise will be complete before the end of January. As well as the formal meetings in relation to assurance Turner & Townsend, CEC and Edinburgh Tram are also meeting on a regular basis to ensure the transition of responsibilities is managed as efficiently as possible.

There have been a number of cracks found to the finished concrete track slabs which are visible on the road level surface. These appear to include cracks in the proximity of expansion joints and contraction joints. Discussions have been held with B&S regarding this issue. It has been agreed to identify a number of areas where the cracking is evident and hold a review between Turner & Townsend and B&S to enable B&S to further progress the issue and identify the actions that are to be undertaken.

The overall forecast has reduced by £177k in the period which is the result of a number of positive and negative movements. During the period, we have partially agreed the value for descoping work around St Andrew Square. It had previously been reported that although road reconstruction savings would be lower than targeted, this is partly a result of some value being included within the St Andrew Square descope. The forecast now captures the likely saving of these combined value engineering items which are greater than previously reported.

There has been an increase in the risk allowance during the period which is the result of the latest QCRA. This is a modelled risk value based on a number of inputs. However, the main driver for the increase is a risk associated with Scottish Water's resources which have been maintained at a level higher than originally forecast. We are reviewing the required Scottish Water project requirements to identify where the resources can be reduced.

During the period, CAF submitted a letter which identifies prolongation costs for the difference between their contract programme (rev 2 from the mediation) and the Rev 5 programme. We have carried out an initial review of this correspondence and will meet with CAF to discuss the effects. At present, we believe the contract programme dates can be maintained although there

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is reference in the CAF contract to a service commencement date in September 2013 which conflicts with their contract programme.

2 Health, Safety & Environment

2.1 Management of Health & Safety

During the last period there was a considerable emphasis placed on preparing the construction sites for the Christmas / New Year shut down. This included a general clean up of the sites, temporary reduction of compounds where possible and enhancements to the fencing to make them more robust during this holiday period. The work resulted in the project only receiving one On call notification during the holiday.

2.2 Incident Management

2.2.1 Incident Reporting

During the last period there were four incidents on the Edinburgh Tram Project. There were no incidents that were identified as serious / significant.

2.2.2 Record of Incidents

Incidents reported within this period comprise:

Serious / significant incident

none

Date	Location	Detail	Contractor	Classification
12/12/12	St Andrew square	Wheel of road sweeper in comms chamber after running over timber board covering the chamber.	Crummock	Service damage
14/12/12	Shandwick Place	Damage to a 2"dia gas. Pipe was encased in concrete. Scotland Gas Networks contacted and arrived on site within 1 hour	Lagan	Service damage
19/12/12	9/12/12 Scotrail Depot Fibre optic cable connection to the depot damaged at fence line in ScotRail depot. Resolution - Location of damage identified and cable jointed 20/12/12.		Graham	Service damage
27/12/12 Abercrombie Place		Temporary lights were stuck on red. Resolution - T&T requested that the batteries for the temporary lights are replaced as they are flat.	B&S	Unsafe condition

2.2.3 Incident Progress

A review has been undertaken of the Bilfinger & Siemens report regarding the incidents involving two road rail Mobile Elevated Working Platforms (MEWPs) on the mini test track. The report which was prepared by Stuart Parson (Edinburgh Trams) has now been received, with comments passed back to CEC. It has envisaged that a set of actions for implementation will be agreed by the 18th of January 2013.

2.3 CDM Regulations

Turner & Townsend have received the revised Construction Phase Plan for the project from Bilfinger & Siemens. This document is currently being reviewed by Turner & Townsend.

2.4 Environmental

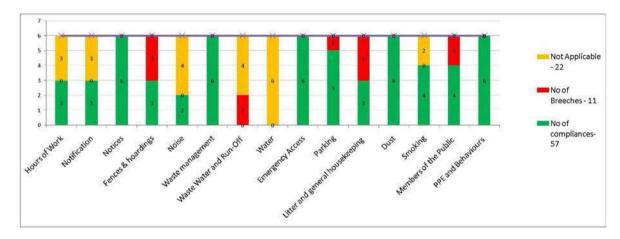
Edinburgh Airport has raised concerns regarding erosion of the Gogar Burn in the vicinity of the tram works. CEC has requested copies of photographs from the airport authority to assist with investigating this matter.

A meeting was held with John Lawson from CEC Archaeological Services and Sheena Smith the Environmental Compliance Manager from Edinburgh Trams. He has advised that further work / money will be required to progress the post excavation works to closure, specifically with regard to final reporting. This money is already accounted for in the original change budget as discussed with Mike McKenzie (Turner & Townsend Commercial). Full details are to be provided by John Lawson during the next period.

The removal of the waste from Baird drive has now been completed.

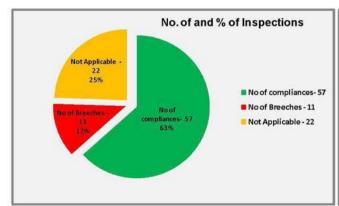
2.5 CoCP

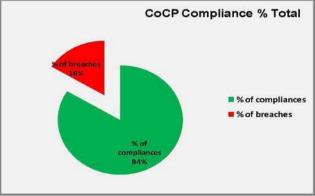
CoCP compliance was recorded at 84% during the Period. The results of the CoCP monitoring have been passed to The City of Edinburgh Council Communication Team to be uploaded to the project web site. Details of the breaches are included within the Deliver the Tram Safely report included within Appendix 2.



^{*} There were 2 inspections in which Waste Water and run off were relevant. In both of these instances there were breeches. These breeches occurred in St Andrews Square and were rectified by the Christmas Shutdown.

Number of and % Compliance





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3 Programme

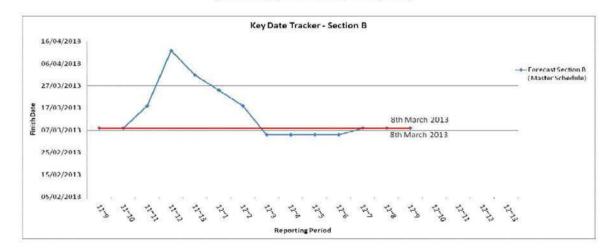
For this reporting period it was agreed between all parties (CEC, Infraco, Turner & Townsend) that no progress update or report would be provided from Infraco. Therefore no progress has been recorded against the Master Schedule this period and the current data date remains the 10th November 2012. As such all forecast dates remain unchanged.

3.1 Programme Overview

Contract milestones C & D continue to remain on or earlier than the contractual dates, based upon progress up to 10th November 2012. These are forecast for the 21st of November 2013 and the 2nd of March 2014 respectively. Section B has not been affected this period and remains the 8th of March 2013. However, based upon discussions with Infraco this period, it is envisaged that there could be approximately one month additional slippage to the Section C and D completion dates, within the Turner and Townsend Master Schedule.

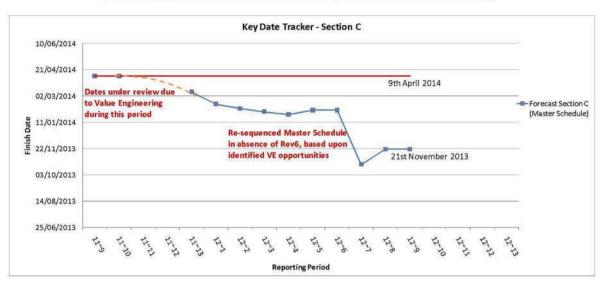
The primary factor for the forecast movement of Section C and D dates has been the long lead requirement for the single visit of the Off-Street tamper. Non-confirmation of the tamper date has resulted in the forecast slippage of one month to the forecast commencement, now believed to be in late June 2013 verses the current Master Schedule date of the 31st of May 2013. Further information is being sought from Siemens in relation to the programme dates for the Off-Street tamping.

The charts below track the forecast dates (from the Master Programme) for the Sectional Completion milestones against the contractual dates and their movement throughout the project lifecycle to date. All information and analysis contained in this Programme Section of the report is based upon the Master Programme, unless otherwise stated.



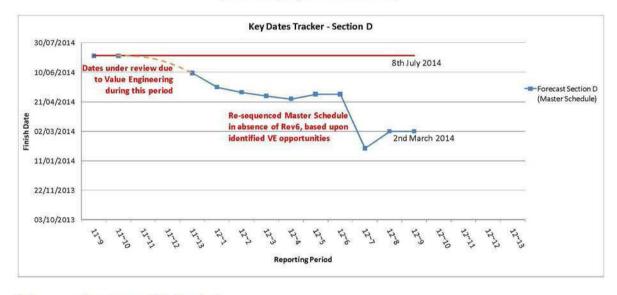
Section B; Test Track Complete

Note: All charts exclude the impact of risk & opportunity



Section C; All Construction Complete (including T1 & T2 testing)





3.2 Progress this Period

There has been no change to the number of sections where works are progressing. Haymarket Yards is the only section where construction works have been completed. At both the Depot and along Princes Street overall construction progress remains at 99% with some final non critical items of works yet to be completed. E&M is still to commence along Murrayfield Corridor through to York Place (Sections 5A, 2A, 1D and 1C).

Murrayfield corridor continues to be a concern for slippage. This is a risk which is likely to be influencing Infraco's confirmation of the tamping date. This is primarily due to issues with progress at both Roseburn Street Viaduct (S21A) and the adjacent Murrayfield Retaining Wall (S21B) structures. Murrayfield Retaining Wall (S21D) has also been impacted but is not currently driving the critical path.

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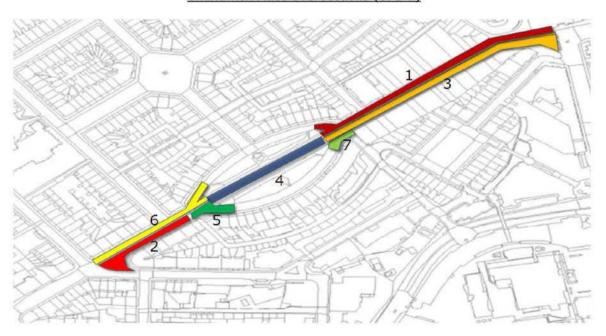
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At Edinburgh Gateway, based upon Expanded's schedule of works, progress remains behind schedule by approximately 12 days, due to the King Post embankment works. As such Turner and Townsend continue to agree with Infraco's previous assessment for track laying to commence on the 26th of February 2013.

Section B completion remains on target for the 8th of March 2013. Infraco's latest progressed Rev5 schedule, submitted with the Infraco period report No 5/8 to the 10th November 2012, does not reflect the correct forecast of works remaining. This has resulted in the incorrect forecast completion date of the 1st April 2013 tabulated in their report.

Along York Place, the works west of the bus station entrance were handed back to Infraco on the 6th of November 2012. The remaining area, east of the bus station entrance was handed back on 29th of November 2012. The condition of each of the areas handed over has enabled Infraco to make good progress with track civils. This has helped to mitigate against the anticipated time impact to Infraco, due to the bus station's traffic management requirements.

Shandwick Place, works is configured into seven sub-sections, as shown in the diagram below. Works have progressed well at Shandwick Place, including the phase 2 utility works being progressed by McNicholas.



Shandwick Place Sub-sections (SP1-7)

At Palmerston Place traffic was switched on 14th December 2012, allowing utility investigations to commence prior to Christmas.

3.3 22 Week "Time Bank"

Erosion of the 22 week cost engineering programme saving remains at 14 weeks.

The draw down figure is based upon the Rev5C Programme, as provided by Infraco. As with the Rev5 contract programme, this amended programme is not reflective of how Infraco intend to construct the remaining On-Street areas of the project. Therefore the critical paths that are

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used to monitor the forecast completion dates for the Sections are somewhat spurious and unlikely to be the true critical path through the project. It is to be noted that the construction sequencing and logic in the Rev5C currently forecasts Section D completion for the 13th of May 2014, approximately 10 weeks later than the current Master Schedule.

3.4 Critical Path and Alternate Float Paths (Master Programme)

The Critical Path referred to below, relates to the 'Longest Path' through the programme which would adversely affect the currently forecast end date if delayed. There has been no change as to which sections the Critical Path lies along this period:

Off Street: Section 5A (Roseburn Junction to Balgreen Road) / Tamping & Full Line Track Finishes

Infraco intend only one visit by the tamper. The date of which is now being driven by the long lead requirement as per the Infraco contract schedule. The forecast commencement of tamping is the 31^{st} of May 2013.

The alternative Key Float Paths are:

- 1. Off Street: Section 5C (Edinburgh Gateway) / Section 5A E&M
- 2. On Street: Section 1D (Shandwick Place) / Section 1D E&M
- 3. On Street: Section 1C (Waverley Junction) / (York Place utilities / main works)

3.5 E&M and Deferred Fit-Out of Tram Stops

As Infraco's works shifts emphasis from civils to E&M, there are a number of challenges arising in the Master Programme, as a consequence of the sequencing of works derived from the Rev5 contract schedule. Two observations are that the OHLE works are converging with a "spike" of activities being forecast in June 2013; and the planned sequence of cable laying, particularly fibre optics, does not align with the intended deferred tramstop fit-out schedule.

This first observation has resulted from the Infraco change from having two tamper visits to just one visit, thereby postponing the completion of OHLE works through Balgreen to Edinburgh Park Station. It is likely that the contract programme Finish-Finish relationships between OHLE and the tamping works is now not relevant and OHLE works could be completed before the tamper arrives. This would spread demand for E&M resources currently forecast for June 2013.

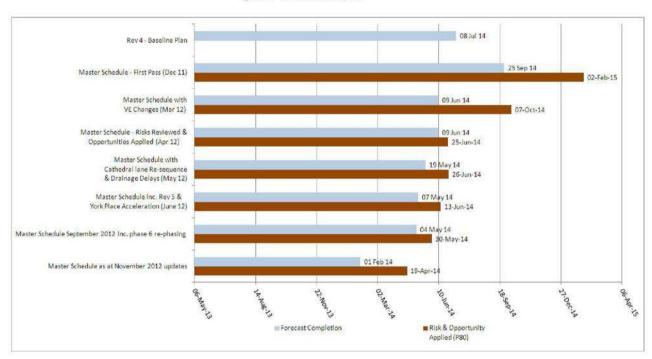
Integration of Infraco's proposed; deferred fit-out schedule continues to be reviewed. The focus of which is the dates for E&M cable laying and the remaining heavy civils along the track and whether the September completion date in the proposed deferred fit-out schedule is likely to drive the Section C and D dates.

4 Risk

4.1 QSRA Tracker

The QSRA is run every quarter or when there are any new significant changes to programme or delivery strategy occurs. The risk profile used in the QSRA is made up of schedule related risks as detailed in the attached Master Risk Register. The last QSRA was run on the $15^{\rm th}$ of November 2012 on the Master Programme.

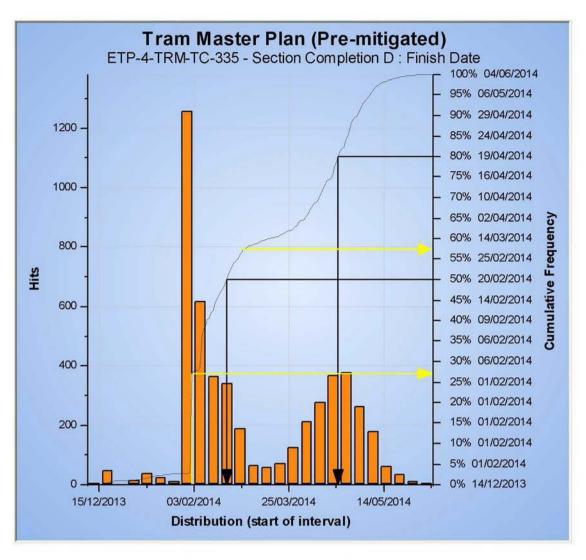
The next QSRA is currently being produced and the results will be published in due course. The chart below shows the forecast dates (before risks and opportunities are included) and the 'impacted' dates for all QSRAs:



QSRA Trend Analysis

4.1.1 Risk Likelihood (P80)

The Master Schedule was analysed with the current Risk and Opportunity profile to calculate the milestone dates as shown below. The analysis predicts a **P80 Section D completion date of the 19th of April 2014** against the current risk and opportunity profile and there is approximately a 57% probability that the current schedule completion date of the 2nd March 2014 will be achieved.



P80 represents an 80% likelihood of completing the milestone on that date, based on the current schedule and risk profile. It is usual practice to utilise the P80 date as a standard on a project of this size, nature and public profile.

4.1.2 QSRA Iterations

These iterations of the Quantitative Schedule Risk Analysis have been carried out since September 2011, details and progress made are summarised below:

QRA Iteration	What is included
Master Schedule – First Pass	High Level schedule produced for QSRA analysis. Including utilities diversions.
Master Schedule with VE Changes	Post VE exercise Revised On-Street phasing Removal of summer embargoes More mature Risk Register
Master Schedule – Risks Reviewed & Opportunities Applied	Updated programme Detailed Risk review Identification of opportunities and application to the QSRA
Master Schedule with Cathedral Lane Re- Sequence	Further updated programme Early start of Cathedral Lane Sub-Station works Impacted Scottish Water risks Risk Review
Master Schedule – including Rev5 and York Place 'Radical Programme' changes	Further updated programme Rev 5 changes to Off-Street section Early start of utility diversion works at York Place Risk Review
Master Schedule as at September 2012 including phase 6 re-phasing	As above plus progress to date and the re- phasing of section 6 to follow phase 2 instead of 5. This is assumed to be achievable
Master Schedule as at November 2012 updates	As above plus: Works at York Place; Shandwick Place; Murrayfield Corridor; Gateway; as well as for the Depot to Haymarket track finishes, pre- stressing and grinding updated in line with Turner & Townsend's estimate of the as- planned works. Risk & opportunity review in conjunction with the above changes.

4.2 Project Risk update

This section discusses the changes to the Master Risk Register (MRR) which contains risks against the Master Schedule. It does not discuss changes to the Collaborative Risk Register (CRR), which is maintained by Turner and Townsend in collaboration with B&S, detailing risks against the contract programme. Changes to the CRR are reported as part of the Programme & Risk meetings which are held every 4 weeks.

Each period the MRR is reviewed and risks are assessed on an ongoing basis, with a general trend of reduction of risks as the team continues to mitigate against the potential impact.

Following this period's review, there has only been one new risk identified to be reported.

Risk	Cause
Additional costs may be claimed if CAF are asked to delay their programme in line with rev 5	CAF originally working to rev 2 programme in line with Marhall agreement which covered costs to those dates. Now been asked to work to rev 5 which pushes out completion times

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5 Commercial

5.1 Commercial Summary

5.1.1 Cost summary

	£M	Comment	
Contract Sum	479.66		
Committed Costs			
approved change 23.70		Includes £6.46m 22 week cost engineering change and £1.4m for Rev 3/2 Rev 4 programme change (made up of costs incurred during mobilisation period)	
changes in progress	5.58	Includes £3.1m for Rev 3A to Rev 4 programme change (made up of £0.6m Siemens costs in 2011 and £2.5m costs for period 20 May to 8 July 2014).	
anticipated changes	4.07	Changes required to complete, subject to approval	
contributions	-7.69	Third party contributions received and anticipated	
Total Committed	505.32	Budget £500.15m	
Risk			
risk estimate	3.57	QCRA: CEC/T&T risk meeting 3 December 2012 plus January amendments. CEC position on Scottish Water MUDFA legacy costs adjusted to £213K in addition to budget of £750K. Note: payment of ex contract claims to Infraco is excluded as confirmed by CEC.	
Risk adjusted forecast	508.89	Budget £500.15m	
Opportunities			
utilities diversions	0.00	Ongoing monitoring of utility expenditure but no further opportunity identified at present.	
rev 3A to rev4	0.00	Infraco have submitted a milestone schedule for balance of costs; £3.1M profiled Jan-13 to Dec-13. Discussions ongoing with Infraco regarding compliance with Independent Certifier's Opinion.	
early programme completion	0.00	No agreement in place with Infraco to realise saving. This work covered by MoU (CEC/Infraco).	
Total Opportunities	0.00		
Total Forecast	508.89	Budget £500.15m	
Excluded risks			
Opportunities, rev 3A to Rev4	0.00	Refer comments in Opportunities section above	
disruption	Excl	Ex contract disruption claims for On-Street Sub-Contractors and CAF programme changes have been excluded as we believe there is no clear basis for entitlement	
Total	0.00		
Forecast +Exclusions	508.89		
	505.79	Adjustment if costs associated with the Rev 3A and Rev 4 programme changes are not paid. Infraco can work to the Rev 4 dates. An example is Section 7A/5C where the sub-contractor is completing later than the Rev 3A date (equates to circa £158k of costs). Infraco have submitted a milestone schedule and do not believe further	
		information needs to be provided. Discussions ongoing with CEC regarding compliance with the Independent Certifier's Opinion.	

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The forecast committed costs exceed the budget by £5,170k, principally as a result of the agreed position regarding the 22 week time buffer resulting from removal of traffic management constraints and programme embargoes and the scope of utilities diversions.

It should be noted that there are a number of assumptions agreed with CEC relating to payment of ex contract claims being excluded and CEC's position regarding Scottish Water's request for additional costs in excess of £750K associated with Scottish Water MUDFA legacy costs.

Opportunities are being sought to realise savings through de-scoping work, value engineering and changes to the execution of the work.

5.1.2 Movement from previous period

The overall forecast has **decreased** by £171k in the period. The principal movements are identified below.

The Infraco contract forecast has **decreased** by £572k from the previous forecast. Significant changes include:

- Forecast savings associated with the combined effects of St Andrew Square descope and Road Reconstruction have increased, **reducing** the overall forecast by £790k. This has been achieved through a number of negotiations with Bilfinger on both the scope of St Andrew Square West and the depths of construction allowed for in the contract price for roads. During this detailed review they have changed their position compared to earlier comments regarding the basis of the contract price and scope. The cost report reconciles the combined effect of these items and reapportions the savings to the respective tNCs (560 and 584). Savings associated with tNC 560 (St Andrew Square descope) have increased by £1,150k while savings associated with tNC 584 (road reconstruction) have decreased by £360k. This transfer of savings is in line with the report provided to CEC in October on this subject.
- Forecast savings associated with the excavation of track box by McNicholas have reduced, increasing the overall forecast by £100k. This has resulted from agreements with BS over the depths of construction allowed for in the contract price for track box.
- The forecast for the York Place direct contract has increased by £100k. This is the result of final completion of the work being pushed into 2013 which in turn has resulted from additional temporary works to allow transfer of bus running lanes and additional works associated with installation of drainage and ducting and in particular the Broughton Street manhole.

The forecast for utilities has **increased** by £13k from the previous forecast. There have been no significant movements in the period

The risk allowance has **increase** by £288k. This is the result of the latest QCRA which models all cost and schedule risks to project completion. The primary reason for the increase in this sum is the inclusion, within the uncertainty allowance of a sum of £400k for costs associated with Scottish Water's resource cost. Recent submissions by Scottish Water indicate an increase to the previously forecast cost of work done resulting from accruals not identified before and an ongoing level of management resources in excess of what is considered to be necessary to

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deliver the remaining work. These items are being queried and we will report on the status in the next period report.

The allowance for remedial work in Leith Walk is £900k. This has been confirmed by CEC and whether the project team will deliver the project or if it will be managed by another CEC department.

5.1.3 Commercial issues

Rev 3A to Rev 4

A detailed description of the background to the cost impacts of the Rev3A to Rev 4 programme change was included in Progress Report 12. CEC confirmed the requirement to issue a change order for £4,541k and reference is made to the Certifier's opinion which requires that only costs incurred will be payable. £1,397k has been certified to date although Turner & Townsend have advised CEC that BBS have not provided sufficient information to demonstrate costs were incurred. Infraco have advised that they will not provide any further information to support this amount. Infraco have also issued a milestone schedule for the remaining £3,144k showing a draw commencing in January 2013. This issue is not resolved at this stage.

Prelims / Overhead Mark ups on change

Infraco have applied prelims and overhead and profit to OLE bases, section 1D drainage and Shandwick Place road reconstruction. This overlaps with the indirect costs/prelims included in the contract price. As the matter could not be resolved it was submitted to the escalation process and in this instance, CEC have confirmed that payment should be made. This was agreed without prejudice to future changes related to this issue, Turner & Townsend will seek to agree matters with Infraco and advise CEC accordingly.

During the period Infraco have submitted an estimate for Cathedral Lane substation which follows the same principles for calculating mark-up (i.e. prelim recovery is claimed on the full value of the work despite the contract already making some allowance for this scope). We have met Infraco to discuss this item and they have confirmed that they will not change their position. As we believe our position conforms to normal industry practice we suggest that this item will have to follow the escalation process.

Claims

Schedule 45 governs changes to the On-Street Works and no costs have been submitted for disruption associated with the execution of the On Street Works. The intent of the contract is for any legitimate costs to be submitted within the period applications rather than a retrospective claim for additional costs.

Off Street Utilities

Infraco have stated that their contract price does not contain any risk allowance for Off-Street Utilities. Turner & Townsend have advised that there is a lack of visibility regarding risk pricing by Infraco and therefore a negotiated settlement could be sought on items (specifically the SGN diversion at Ingliston) where liability is contested. The Independent Certifier has issued notes of the meeting and re-issued the Opinion paper. It is understood that Infraco do not agree with this paper. This matter requires clarification and resolution.

FINAL

Scottish Water

Scottish Water have recently issued a forecast for their resources which is significantly higher than the reported forecast, both in cost of work done and final forecast. This is in part a result of Scottish Water maintaining resources at a level higher than was originally allowed and higher than we believe is necessary at the current stage of the project. We have previously raised our concerns to Scottish Water and are currently reviewing this issue internally and will report our findings accordingly during the upcoming period.

A further review of the risk schedule is required to confirm the basis of scope included/scope excluded and agreements reached with Scottish Water at steering group meetings and executive meetings.

Tramco

Tramco have submitted a letter which identifies prolongation costs which would result from the difference between their contract programme (rev 2 from the mediation). The periods involved and costs are significant however there is not a significant gap between the contract programme and the forecast dates in the master schedule. There is an anomaly in the contract which identifies a qualifying compensation event resulting from failure to meet and end September 2013 passenger service date. This contradicts the contract programme which shows final activities in December 2013. We have invited Tramco to a meeting to discuss this matter and we will undertake a detailed comparison between the Tramco working programme, the contract programme and the master schedule to determine potential prolongation costs or any time savings.

Contributions

The forecast includes allowances for a number of contributions from Third Parties. Some of these contributions are not yet secured and are being negotiated by CEC. Specific items which fall into this category are:

- Transport Scotland for Edinburgh Gateway (£4,356k) (£944k paid to date);
- Henderson Global for the Cathedral Lane substation (£470k in current forecast although additional recovery to be sought for the revised scope of work);
- CEC for public realm costs in St Andrew Square (£921k excluding Scoutmoor paving);
- Insurance for the Grosvenor Street Sewer Collapse (£188k);
- Network Rail for Scottish Power cable diversion (£22k);
- Transport Scotland for the Tram Integration Manager (£300k).

5.2 Committed Costs

5.2.1 Approved Change

Approved change is items that have been instructed and a commitment value agreed. The total value of approved change to date is £23,700k. This is an increase from the previous period of £741k.

FINAL

Infraco

The total value of approved changes in the Infraco contract is £8,704k. This is an increase of £741k from the previous period. Significant changes are as follows:

Description	Change Amount (£k)
22 week cost engineering change (previously partly reported in change in progress) (this will be amended?)	£539
Independent Certifiers Schedule Part 45 Period End Change Order to 10/11/2012	£195

^{*} Increases from previously approved value

Utilities

The total value of approved changes in the Utilities budget section is £13,976k. This is unchanged from the previous period. A further drawdown paper is being developed for the coming quarter.

Tramco

The total value of approved changes in the Tramco budget section is £5k. This is unchanged from the previous period.

5.2.2 Changes in Progress

Changes in progress are known changes that have not yet been incorporated into the contract sum, either because we are awaiting a price from Infraco or the value has not yet been agreed. The total value of change in progress is £5,579k, a decrease of £2,092k from last period.

Infraco

Change in progress associated with the Infraco contract is £5,544k. This is a decrease of £2,117k from last period. Significant changes include:

- tnc 560 St Andrew Square descope: £-1,150k (reconciliation with road reconstruction and track excavation tnc)
- tnc584 Road reconstruction specification: £-340 (previously -£700k in anticipated change)
- tnc 606 On Street works estimate in St Andrew Square: £81k
- tnc 611 Excavation of track slab by others £-100k (previously £-200k in anticipated change; anticipated saving reduced)
- tnc 717 Cost engineering in respect of the Programme (22 week saving): £-539k (cost transferred to approved section)
- tnc 721 Installation of section isolators on the MTT: £30k (previously in anticipated change)

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- tnc 729 Princes Street Traffic Light Alterations: £40k
- tnc 735 Additional walls at Queensferry Street / Hope Street junction: £40k

Refer to the cost report for a complete list of change in progress.

5.2.3 Anticipated Change

Anticipated change are variations to the contract that are known about but no change has been raised at this time, either because the scope has not yet properly been defined or the change has not taken place yet. Anticipated change during the period has increased by £893k. The following describes the main items of change during the period.

Infraco

Anticipated change has increased by £880k which includes:

- Transfer of various saving items into approved change (refer above): £900k (saving moved to change in progress section)
- Transfer of change into change in progress section (refer above): £-120k (cost moved to change in progress section)
- Direct works contract for York Place, carried out by Crummock £100k. This has resulted from work extending into 2013 due to additional work, in particular the manhole at Broughton Street.

Utility Works - York Place to Haymarket

Anticipated change has increased by £13k which includes:

• Increases to the Scottish Water forecast. The Scottish Water resources have not been reduced as anticipated and despite the fact that work on Scottish Water assets has reduced significantly. Although the increase in the period is only £13k, there is a significant difference between Scottish Water's forecast and that included in the report which we are currently investigating.

Tramco

Anticipated changes are unchanged during the period.

5.2.4 Contributions

The forecast amount of contributions has increased by £7k in the period. as described below:

- Infraco have carried out additional design work, associated with the public realm at St
 Andrew square which has increased the contribution from CEC by £2k
- The amount for Gateway design work has been agreed with Transport Scotland at £944k an increase of £4k from the amount previously reported.

5.3 Risk and Contingency

Quantified Cost Risk Analysis (QCRA)

Following the most recent risk review, the risk allowance included in the forecast amounts to £3,571, an increase of 288k from the previous period. This is based on the outputs of the QRA which follows a review of all project risks, the increase is primarily the result of the risk associated with Scottish Water's forecast which is significantly higher than the reported project forecast due to the levels of resource Scottish Water still have on the project.

It should be noted that the risk allowance does not make provision for any ex-contract claims which may be issued and or accepted by CEC such as loss of productivity.

5.4 Opportunities

The total value of opportunities in the current forecast is £13,602k. Most of these opportunities are secured. However, there remains a risk to certain items included within this total, identified below:

- Item 02 Setts: This opportunity is for a non tram budget in CEC to contribute towards the cost of setts in St Andrew Square. We are still in negotiation with Bilfinger Berger over the rate for the revised specification of setts which may affect the total value for this item although it is assumed that any additional / reduced cost will be part of the contribution and therefore have no overall effect on the tram forecast
- Item 14 Road Reconstruction depth: The impact of utilities diversions have reduced the area of road which can be preserved however this is compensated by savings in pavements and footways. During the period we have reconciled savings associated with this item, St Andrew Square descope and Track box excavation resulting in a net increase in the overall saving although a reduction associated with this item.

There are limited further opportunities to de-scope elements of the work. However there are opportunities to refine the final scope of work and refine estimates. One of the issues on certainty of estimates has been Infraco's insistence that out-turn estimates do not need to be provided for On Street Works. This issue has been identified previously and was included in the CEC Lawyer's review of our contract queries.

Examples include:

- Revised design for the retaining wall for the Cathedral Lane Sub-Station;
- Out-turn costs for the York Place Terminal Point
- Out-turn costs for the floating track slab

Programme Opportunities

Progress report Nr 13 provided details on relationship between the Rev 3A Rev 4 cost movements (also refer above) and prelims costs associated with the difference between an estimated completion dates (based upon relaxation of resource constraints and extrapolation of current progress) with the Rev 4 completion date.

FINAL

Infraco's position is that they are entitled to contract prelims, plus the £4.5m to Rev3A to Rev 4 movement. Subject to performance and actual completion in advance of Rev 4 dates there may be an opportunity to save part of the £2.5m for the programme movement at the end of the project. This is also depending upon Infraco not adopting an adversarial position. It should be noted that Infraco have submitted a milestone schedule for these amounts which indicate that the full amount should be paid by December 2013. This issue is not resolved at this time.

5.5 Exclusions

The following items are excluded from the Cost Report

- Repairs to pavements and footways
- Further design changes beyond those included in the cost report (note: production of as built drawings from the MUDFA contract and collation of as built information from current utilities diversions is a significant exercise. Also design costs are beyond the norm since SDS Management Fee at 25.65% and Infraco mark up at 34.9% is applied. We suggest a review of this is undertaken with CEC and alternative solutions are evaluated).
- Claims for disruption from the sub-contractors on the On-Street section as entitlement exists for PAVs.
- Scottish Water manhole in Princes Street Gardens
- Leith Walk Utilities Diversion CEC has confirmed that the budget for defined scope should be £0.9m (based upon the tender and a general contingency allowance). The intention is to value engineer out the undefined scope e.g. gas water pipe separation and to restrict the work done. Should, for technical reasons this approach not be feasible then additional funding would be required.
- All Utility Companies and Network Rail management resource has been included to September 2013. Section completion dates and resources needed to review as-built information is under review.

5.6 Payments and Cashflow

A summary of the certified amounts are provided below.

	Certified £k	Planned £k	Comment
Infraco	357,552	357,000	Planned – based upon current forecast
Utilities	15,804	15,700	McNicholas plus SUC costs
Trams	61,731	61,731	Payments generally in accordance with milestone schedule. Incomplete milestones are not included in certified amounts.

6 On Street - Enabling Works & Utility Legacy Works

6.1 General

Enabling and utility legacy works have progressed well during the period and works are being completed to meet dates agreed with Infraco. Similarly street services utility conflicts (those outside the DKE+2m, road sign bases, traffic signal bases and associated ducting) are progressing well and work is being coordinated with Infraco to avoid/minimise disruption to the main works.

6.2 York Place

With all critical York Place enabling works completed and the main site handed over to Infraco, Turner & Townsend retains an island site at Broughton Street to construct a SW drainage manhole and a site at Dublin Street to complete final utility and street service works. These works are currently non critical to the Infraco programme and are scheduled to be commenced w/c 14th January 2013.

6.3 Scottish Water

The recent introduction of the weekly steering group meeting with senior SW management has made a positive impact in progressing the key issues between the parties. The main focus of the meeting is to minimise any delay and disruption to the Infraco contract while working through a significant number of legacy technical, commercial and legal issues. This focus has progressed key issues such as; the Murrayfield Sewer diversion, however there remains the risk of some significant commercial challenges in the resolution of the remaining issues. Turner and Townsend and CEC are now focusing on consolidating this progress to determine an effective close down plan for this problematic interface.

Regarding the legacy works in Leith Walk and Constitution Street CEC has requested that Turner & Townsend propose a reduced workscope of critical legacy utility items for agreement with SW. In parallel Turner and Townsend have approached McNicholas regarding delivery of the revised workscope. CEC and Turner and Townsend anticipate works commencing mid Feb 2013 assuming agreement with SW can be reached by the 16th of January 2013. Turner & Townsend are discussing with CEC how these works will be resourced.

6.4 Look Ahead

Turner & Townsend will remain reactive to utility discoveries by Infraco although this watching brief work is beginning to ramp down considerably as ground works are completed. Work will continue with CEC in seeking to limit the scope of Scottish Water legacy works. Street services works will also be ongoing in the period.

7 On Street - Main Works

7.1 Progress in Period

All On Street areas including York Place are now in the possession of Infraco with some minor exceptions agreed where residual works and/or street services conflict works are being carried out by McNicholas and/or Crummock. Infraco has continued with track slab construction in all areas and is making good progress with carriageway reconstruction between Haymarket and Lothian Road. Track laying continues to progress well.

Of particular note is the progress Infraco has made in York Place since the sites were handed back to them. All critical blinding work was completed by Christmas and 35% of track slab has been completed.



York Place

The delays to the commencement of construction of the Cathedral Lane substation due to a redesign of the retaining wall at the perimeter of the site are being mitigated. Currently Infraco are completing the piling works and are maintaining that the building will be weather tight for handover to Siemens at the beginning of April 2013 in line with the Rev 5 Programme. The programme however makes no allowance for risk and will need to be monitored on a weekly basis in conjunction with Infraco.

The completion date for St Andrew Street is now likely to be February 2013. This has slipped in

the period due to the impact of December's weather on the critical set laying activities. The RBS vehicular access was switched to the north side of the Square in the period allowing the remainder of the track and carriageway works on the south side of the square to be completed. The critical path on the On Street section no longer runs through St Andrew Square and the works continuing on into early 2013 will not have an impact on the overall delivery date. Owner consents to attach OLE fixings to buildings in St Andrews Street have proved difficult to close out despite CEC's efforts. While this is not currently delaying the works, the issue is being monitored closely through regular meetings.



St Andrews St

Princes Street snagging continued throughout the period and the majority of snags are now closed. Some Scottish Water legacy snags remain to be completed in Princes Street although these will now be carried out in early 2013. Defect inspections commenced in the period.

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As re-sequencing of the phases is steadily implemented in Shandwick Place, progress remains significantly ahead of the Rev5 programme, in most locations. Interfaces between contractors continue to be coordinated to minimise disruptions. Track and Civils works in Shandwick Place south are now underway and the target date for completion is April 2013.



Shandwick Place

Between the Crescents Infraco is completing track laying and progress on the Tramstop has also continued during the period. In the same geographic location the tender documents for the rebuilding of the Shandwick Place walls together with the excavation of tree pits, the planting of new trees through the area and the construction of a footpath in the gardens, have been finalised and discussions are ongoing with CEC regarding the timing of the tender for these works.

Works between Haymarket and the Crescents have progressed well during the period and Infraco has made up some of the time lost due to having to break out approximately 60 linear metres of concrete on the north side of Coates Place. The traffic switch from Palmerston Place to Manor Place was completed on the 14th of December 2012. McNicholas now have possession of this area of the site for legacy utility works prior to handover to Infraco.



Haymarket

8 Off Street Works

8.1 Progress in Period

8.1.1 Section 7

Section 7 infrastructure was complete for tram testing with the first tram travelling along the section on the 12th of December 2012. Platform edges did need to be adjusted as it was found that these interfered with the tram envelope. Subsequent checks are now being made on the other tram stops that have been installed. Snagging on the civil elements are progressing with the majority of snags being complete. Cracks on the platform track slabs along section 7 have been noted and are currently being investigated. The works to Eastfield Avenue Road crossing remain outstanding and requires scope definition for the crossing to be within Section B completion.

8.1.2 Edinburgh Gateway

Ducting is continuing to be installed in the area this will enable the radio mast to be connected and allow the Depot to be connected to the east side of the tram network.

King Post Wall construction has continued and piling for the overhead line masts will start mid January 2013. The attenuation tank has been backfilled and water tests have been successfully completed.



Edinburgh Gateway

The project is supplying Scottish Water with method statements and risk assessments; the majority of which have been supplied and accepted. The remaining outstanding elements of work to be accepted by Scottish Water are; overhead line mast installation, the installation of the protection slab over the sewer and track laying.

8.1.3 Murrayfield





Murrayfield

Further to the last report the manhole at Murrayfield has been lowered to enable the embankment works to progress, there has been a noticeable development in the height on both structures S21 B and D.

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Turner & Townsend inspected the manhole over the festive period and no issues were reported. CCTV surveys are continuing every two weeks until the new sewer is in place.

The plan of the sewer diversion takes the sewer slightly outwith the tram Limits Of Deviation therefore permission is required from the SRU to construct within their land. SRU have not given this permission however CEC are in discussions with SRU and it is hoped that this permission shall be in place prior to the 21st January 2013.

McNicholas have been chosen to undertake the sewer diversion works due to the cost being less than Bilfinger and their experience of utility diversions. McNicholas have had the Technical Query for the diversion works accepted.

8.1.4 Tamper

Infraco has informed Turner & Townsend that the two tamping visits on the remainder of the Off Street section (Haymarket to the Depot) envisaged in the Rev 5 programme are now going to be carried out in 1 visit. Concerns were raised by Turner & Townsend/CEC that this may have a detrimental impact on the sectional completion dates, in discussion with Siemens however it was established that the tamper has been provisionally booked for a window in June/July. Discussions are ongoing to confirm that a date in early June can be achieved which is broadly in line with the Rev 5 dates, thus significantly reducing any impact on Sectional completion. What's more, Siemens are also considering re-sequencing post tamper activities such that any time lost can be recovered. This will continue to be scrutinised by Turner & Townsend.

8.1.5 Other Items of progress in this period;

- Gyle Broadway is substantially complete;
- Gyle to Edinburgh Park civils are substantially complete;
- Edinburgh Park Central Shelter installed;



Edinburgh Park Central Shelter

 Murrayfield embankment construction vertical levels at S21B&D have been progressed;



FINAL

- Baird Drive material removed;
- Roseburn structures waterproofing and transition slab works continuing;
- W3 reinforced earth construction continuing;
- ScotRail manhole relocation works ongoing;
- Drainage and ducting on W4 ongoing;
- Roseburn Street footpath and Murrayfield Tram Stop platform work on going;
- ScotRail access gate installed.
- Bankhead tracklaying continuing;



Bankhead tracklaying

8.2 Key Issues

The following issues are currently affecting the off street section;

- Completion of Eastfield Avenue Road in time for Section B handover, scope require to be agreed with Edinburgh Airport and defined by CEC;
- Murrayfield sewer permanent diversion access to be confirmed by SRU;
- An industrial property at Roseburn requires an extension to be reinstated, this was demolished to allow for Bilfinger's piling methodology, however the reinstatement has not been clearly defined within the original tie instruction. Discussions will be held with Bilfinger to establish a solution;
- A problem has been identified at the depot whereby the cable powering the trams overheats when more than four trams are powered up. This is not in accordance with the Employers Requirements and Infraco is investigating what remedial action can be taken;
- Platform edges require to be checked on the rest of the network due to the clash found on Section 7; and
- Cracking has been found on the platform track slabs on Section 7. This issue is currently being investigated and preliminary findings suggest the issue could be project wide. Turner & Townsend has arranged a joint inspection with Infraco and will be requesting a report on what remedial action is required.

8.3 Look Ahead

The following works will be progressed during the coming period;

- Bilfinger and Siemens are reporting that the majority of their Work Package Plans have been submitted to Network Rail and design packages are also being finalised Turner & Townsend have asked Network Rail to review their resources on the project. In addition the Third Party Representative's time on the project shall be substantially reduced.
- Tram testing continuing on Section 7;
- Wall construction continuing at the Gateway site;
- Piling commencing for OHLE masts at the Gateway site;
- Overhead line works commencing through Edinburgh Park;
- Edinburgh Park bridge plinths to be recast;
- Murrayfield sewer diversion shall commence subject to SRU agreement;
- W3 ducting and drainage continuing;
- Haymarket corridor track laying shall continue; and
- Tamper to be booked.

FINAL

9 Trams

9.1 Trams Progress in Period

All 27 trams have now been delivered to Gogar Depot; with 25 having completed testing on the Mini Test Track (MTT). MTT testing of the remaining 2 trams will be completed during the forthcoming period.



Tram Depot

CAF have completed routine testing of the four trams which are required for Section B Completion (to 70 kph) well ahead of schedule, with the fifth tram having already been awarded the required Interim Tram Commissioning Type Test Certificate.

The remainder of the Section B tram type and routine tests are scheduled to be completed immediately prior to the Systems Acceptance Test (T1), which is due to commence on the 8th of February 2013.

Turner & Townsend are now attending fortnightly Section B Test & Commissioning Control meetings, chaired alternately by CEC and Bilfinger & Siemens. The 'Section B Tracker', developed by Turner & Townsend to monitor the progress of significant test, commissioning and integration activities for Section B, will now be managed and published by Edinburgh Trams. Turner & Townsend shall continue to monitor the completion of tests and report on any issues identified by either ourselves, or Edinburgh Trams.

9.2 Vesting of Trams with CEC

Turner & Townsend and CAF have developed a procedure to define how trams are to be vested with CEC, in line with Tram Supply Agreement requirements.

Turner & Townsend are currently discussing requirements for the award of Certificates of Tram Commissioning (CoTC), which are a pre-requisite to the vesting of any tram with CEC, with the Tram Inspector. In particular, discussions are focussed around the Tram Inspector's requirement to ensure that Employer's Requirements have been met, before a CoTC can be issued.

Turner & Townsend will produce a paper detailing its understanding of the contractual requirements for the vesting of trams, whether there are any additional risks to CEC when trams are vested and how any vested trams could be managed to mitigate such risks. This paper is expected to be produced by w/e the 18th of January 2013.

9.3 Fare Collection System

The supply and maintenance contract for the Fare Collection system has now been awarded to Parkeon Transit, by CEC. Turner & Townsend will continue to project manage the development and implementation of the system on behalf of CEC.

FINAL

The physical design and customisation specifications for the Ticket Vending Machines and Platform Validators have been agreed between Parkeon and CEC, with both documents having been developed prior to the supply agreement having been signed. This was done to allow manufacturing of the TVMs and PV to commence immediately upon signature of the contract.

The development of the remaining design and user interface specifications is ongoing, with all parties (Parkeon, Turner & Townsend, Edinburgh Trams and Lothian Buses) working toward their completion by the 21st of February 2013, in line with contract milestone payment requirements.

There is still some information to be provided to Bilfinger & Siemens on the installation requirements for Platform Validators and Hand Held Devices (HHD) and on the interface to the Siemens' RailCom Manager system. Turner & Townsend will arrange a discussion between Parkeon, Bilfinger and Siemens during this period, to ensure that all information required is understood and provided.

9.4 Key Issues

Following confirmation that Turner & Townsend have accepted B&S Project Programme Revision 5 as the current project programme, CAF have issued a letter to Turner & Townsend detailing potential additional project costs in excess of £2M, due to the delay to the completion date between Rev 2 and Rev 5.

Turner & Townsend have written to CAF requesting a meeting to discuss our assessment of the forecast dates for key activities; to allow both parties to better understand activities and interdependencies and therefore any potential delay costs. Turner & Townsend are currently awaiting a response to this letter from CAF.

The progress of the Fare Collection system has been delayed due to the delay in signature of the contract. Parkeon have submitted a Client Change Notice to delay the 'Planned Acceptance Date' by four weeks as a result. Turner & Townsend are working with Parkeon to limit any further risk to project delivery.

Parkeon are awaiting some outstanding decisions on equipment and functionality:

- Acceptance of Transport Scotland concession cards on trams A decision is required on whether Transport Scotland will accept the use of concession cards on trams, in the same way they are accepted on Lothian Buses. The functionality of the system has been developed to allow acceptance, should this be agreed.
- Dimensions of Platform Validator mounting poles Information on the quantity, location and installation of the tramstop equipment has now been submitted to Bilfinger & Siemens formally, however Turner and Townsend will provide additional information on Platform Validator (PV) installation in city centre tramstops, when information on the dimensions of the CCTV poles to be used has been received from Bilfinger & Siemens.
- Decision on whether servers will be provided by Lothian Buses (LB), or Parkeon LB
 have indicated that they would prefer to supply the servers required to house the Back
 Office software, on the assumption that they are able to supply the hardware, software
 and operational environment required. A contract change will be required (and
 subsequent saving realised) should LB decide they are able to provide the equipment.

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Turner & Townsend will continue to follow up on the above actions, as further delay may affect the delivery and installation of the system.

Turner & Townsend will use a tracker to monitor key test, commissioning and integration activities, and raise issues identified during fortnightly control meetings chaired by Bilfinger & Siemens. Turner & Townsend have asked that all stakeholders monitor the dates of key activities within the programme, in order to identify potential risks to their own operation. Any activities identified as having the potential to delay Section B Completion will be discussed and managed during the fortnightly T&C Control meeting.

The water ingress into the depot building maintenance pits and Wheel Lathe remains to be resolved by Bilfinger & Siemens. Further action is now required as CAF have confirmed that this issue is affecting their operation. Turner & Townsend have developed a proposal for Bilfinger & Siemens consideration to resolve this issue.

The restriction on the number of pantographs that can be raised at any one time in the Depot is affecting CAF's ability to complete conservation maintenance. Turner & Townsend have asked CAF to quantify the delay, to better understand the issue.

9.5 Look Ahead

The following items will be progressed during the coming period(s):

- 1 Test and Commissioning (end February 2013):
 - All 27 trams have been delivered to Gogar Depot
 - All 27 trams will have completed Routine Testing on the MTT
- 2 System Acceptance and Integration:
 - Ride Quality Type Tests completed
 - Dynamic EMC Measurement Tests completed
 - Turner & Townsend tracker used to accurately report on test and commissioning activities and identify significant risks to Section B Completion
- 3 Vesting of Trams with CEC:
 - Agreement on how and when additional Trams can be vested with CEC to be reached with the Tram Inspector, CAF and CEC
- 4 Fare Collection:
 - Monthly reporting commenced
 - Monthly progress meetings commenced
 - Design and configuration specifications completed

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Manufacturing of equipment started

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10 Assurance

10.1 Resources

The re-organisation of project assurance, with a number of responsibilities transferring from Turner & Townsend to the Operator, is nearing completion. Turner & Townsend has worked closely with Edinburgh Tram in agreeing the split of responsibilities and it is envisaged this exercise will be complete before the end of January. As well as the formal meetings in relation to assurance Turner & Townsend, CEC and Edinburgh Tram are also meeting on a regular basis to ensure the transition of responsibilities is managed as efficiently as possible.

In broad terms the following split has been agreed:

Edinburgh Tram

- Safety Verification
- Technical Assurance
- System Acceptance (T1-T5)
- Managing the Technical Library
- · Requirement Management
- Maintenance pre-operation.

CEC

· Environmental Assurance

Turner & Townsend

- Assurance monitoring
- Quality Assurance
- · Health & Safety assurance
- · Project Insurance monitoring
- CDM Coordinator
- Technical Assurance Trams (Tram Inspector)
- Fare Collection System

An Advice of Possible Non Compliance (ANC) 002 - Confirmation of 'Duty Holder' ability to deliver Safety Verification remains open. The December site visit was successful, with the majority of items closed out. Once the remaining drainage items are closed with Bilfinger & Siemens, this should allow the ANC to be closed.

10.2 Requirements Management

Currently 169 out of 435 Requirements for Section A are deemed 'compliance confirmed', discussions are ongoing with Bilfinger & Siemens to provide the additional information required to close the remaining items to complete the Section A requirements. This is slower progress than expected for Section A, however all outstanding issues are in the process of being addressed. Care is being taken to ensure that this process is as robust as possible; the idea being that the remaining sectional handovers will be fully understood.

10.3 Project Insurance

The next Owner Controlled Insurance Programme (OCIP) project survey is due in January 2013, the date is still to be finalised as their surveyor is on leave at present.

10.4 Evidence File

The new IT team (Amor) is working with a software provider to facilitate the transfer of documentation to the new Sharepoint site. A successful test has now been carried out; CEC's approval to proceed is expected in January 2013.

10.5 Section B Testing & Commissioning

The dynamic testing of the 5 trams took place and was achieved ahead of programme. The remainder of the testing is anticipated to be ahead of programme, however at the time of writing an updated programme had not been received from Bilfinger & Siemens.

10.6 Key Issues

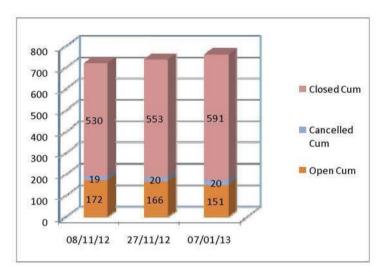
There have been a number of cracks found to the finished concrete track slabs which are visible on the road level surface. These cracks appear to include cracks in the proximity of expansion joints and contraction joints. Discussions have been held with B&S regarding this issue. It has been agreed to identify a number of areas where the cracking is evident and hold a review between Turner & Townsend and B&S to enable B&S to further progress the issue and identify the actions that are to be undertaken.

10.7 Quality

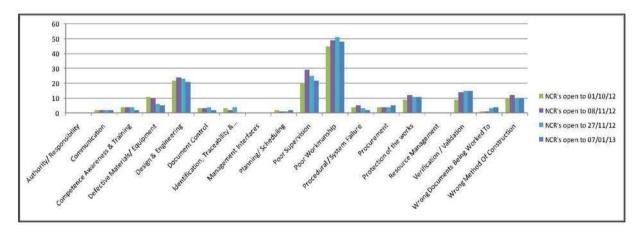
Monitoring by Turner & Townsend of the NCRs raised on the project continues. Details of the NCRs are included below:

- The number of NCRs raised to date is 762. 23 NCRs were raised during the period and 38 NCRs were closed out during the period.
- 49 open NCRs are greater than 6 months old. Further details may be found within Section 6 of Deliver a Safe Tram Report.
- 151 remain open.

Summary of non conformances



Breakdown of non conformances





Appendix 1 – Dashboard

SUMMARY DASHBOARD REPORT Produced by Julian Weatherley & Shirley-Anne Collin SECTION Employer City of Edinburgh Council CONFIDENTIAL - LEGALLY PRIVILEGED AND FOI(S)A EXEMPT Waverley Court, Edinburgh, EH8 8BG Turner & Townsend Project Management Limited Julian Weatherley Address Issue By 9 Lochside Avenue, Edinburgh Park Issue Date 21st January 2013 REPORTING PERIOD 8th December 2012 - 5th January 2013 Project Edinburgh Tram Network

Executive Summary

- Rob Leech will be taking over from Julian Weatherley as Director of Project Delivery from 7th January 2013.
- During the last period there was a considerable emphasis placed on preparing the construction sites for the Christmas / New Year shut down. The work resulted in the project only receiving one On call notification during the holiday. 2.
- There were four health & safety incidents recorded during the period, none of which were identified as serious
- Erosion of the 22 week cost engineering programme saving remains unchanged at 14 weeks. Turner & Townsend currently estimate that a further erosion of up to two weeks will result from the need to keep the bus station operational during the York Place works although this is being monitored closely
- The Sectional completion date for Section B remains on target for 8th March 2013 (the contract programme
- Infraco has informed Turner & Townsend that the two tamping visits on the remainder of the Off Street section (Haymarket to the Depot) envisaged in the Rev 5 programme are now going to be carried out in 1
- Infraco has informed Turner & Townsend that the two tamping visits on the remainder of the Off Street section (Haymarket to the Depot) envisaged in the Rev 5 programme are now going to be carried out in 1 visit. Concerns were raised by Turner & Townsend/CEC that this may have a detrimental impact on the sectional completion dates, in discussion with Siemens however it was established that the tamper has been provisionally booked for a window in June/July. Siemens are also considering re-sequencing post tamper activities such that any time lost can be recovered. This will continue to be scrutinised by Turner & Townsend
- Discussions are ongoing with Turner & Townsend and Infraco and CEC in relation to the scope of Section B. This is nearing completion and a Section B tracker is being developed by Turner & Townsend covering all aspects of the works.
- Enabling and utility legacy works have progressed well during the period and works are being completed to meet dates agreed with Infraco.
- All On Street areas including York Place are now in the possession of Infraco with some minor exceptions agreed where residual works and/or street services conflict works are being carried out by McNicholas and/or Crummock. Infraco has continued with track slab construction in all areas and is making good progress with carriageway reconstruction between Haymarket and Lothian Road. Track laying continues to progress well.
- 11.
- The recent introduction of the weekly steering group meeting with senior SW management has made a positive impact in progressing the key issues between the parties. Section 7 infrastructure was complete for tram testing with the first tram travelling along the section on the 12" of December 2012. Platform edges did need to be adjusted as it was found that these interfered with the 12.
- Further to the last report the manhole at Murrayfield has been lowered to enable the embankment works to progress, there has been a noticeable development in the height on both structures S21 B and D 13.
- All 27 trams have now been delivered to the Gogar depot with 25 having completed testing on the mini test
- CAF have issued a letter to Turner & Townsend detailing potential additional project costs in excess of £2M, due to the delay to the completion date between Rev 2 and Rev 5. Turner & Townsend have written to CAF requesting a meeting to discuss Turner & Townsend's assessment of the forecast dates for key activities; to allow both parties to better understand activities and interdependencies and therefore any potential delay costs. This meeting is due to take place in January.

- The progress of the Fare Collection system has been delayed due to the delay in signature of the contract. Parkeon have submitted a Client Change Notice to delay the 'Planned Acceptance Date' by four weeks as a result. Turner & Townsend are working with Parkeon to limit any further risk to project delivery.

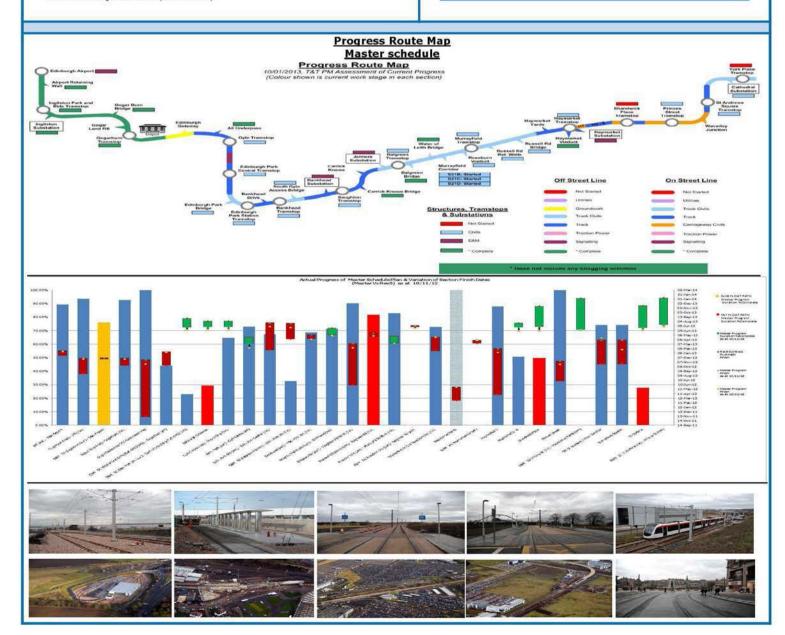
Executive Summary cont'd

- The re-organisation of project assurance, with a number of responsibilities transferring from Turner & Townsend to the Operator, is nearing completion. Turner & Townsend has worked closely with Edinburgh Tram in agreeing the split of responsibilities and it is envisaged this exercise will be complete before the end of January. As well as the formal meetings in relation to assurance Turner & Townsend, CEC and Edinburgh Tram are also meeting on a regular basis to ensure the transition of responsibilities is managed as efficiently as possible.
- There have been a number of cracks found to the finished concrete track slabs which are visible on the road level surface. These cracks appear to include cracks in the proximity of expansion joints and contraction joints. Discussions have been held with B&S regarding this issue. It has been agreed to identify a number of areas where the cracking is evident and hold a review between Turner & Townsend and B&S to enable B&S to further progress the issue and identify the actions that are to be undertaken.

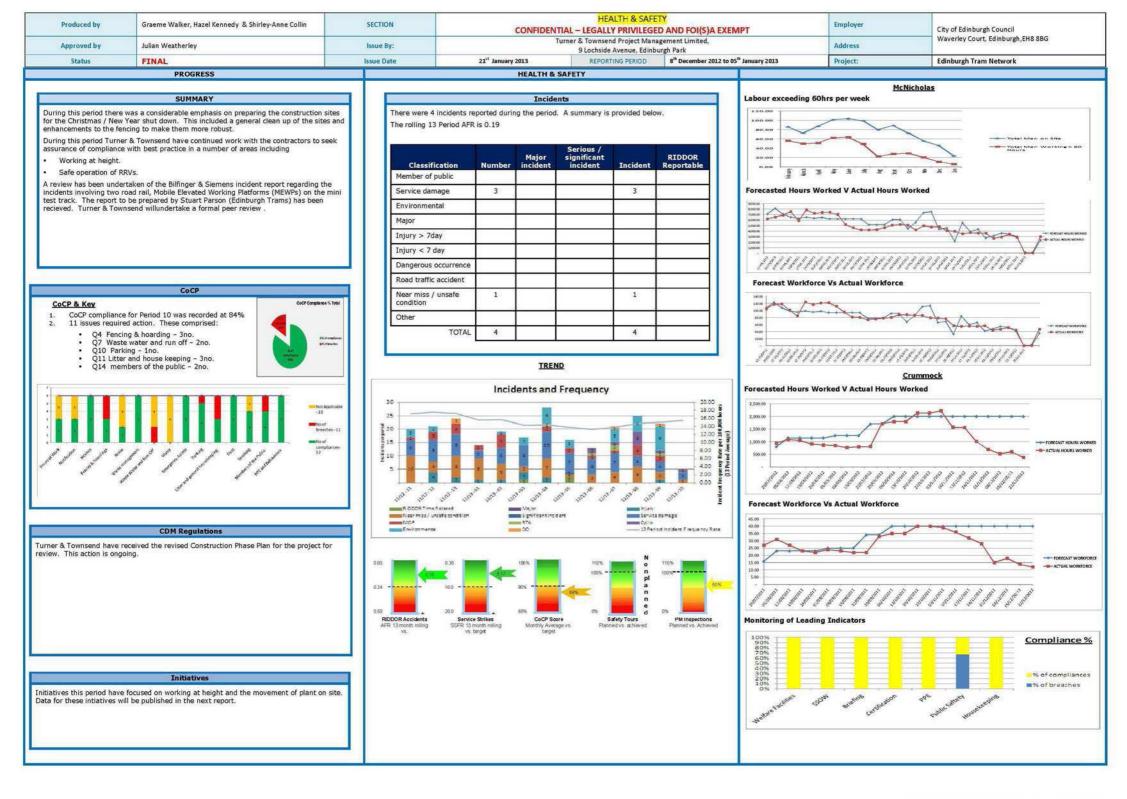
NOTE: It should be noted that it was agreed that Infraco would not submit a Progress Report for Period 5-9 in December. Period 5-9 is to be covered in a combined period report due after the cut off date of this report. Consequently this report is drawing on Turner & Townsend's analysis of progress in the Period.

CEC ACTIONS / DECISIONS

- Scottish Water Buildover agreements require to be progressed.
- Network Rail Operational and Bridge agreements require to be progressed.
- Network Rail Verity House Commercial position to be decided and agreed with Network Rail.
- Haymarket Wayleave Close out of the wayleave with Scottish Power and Network Rail at Haymarket.
- Shandwick Place Walls Strategy
- Scottish Water overarching terms
- OLE Building Fixings Legal Agreement with landowners (some progress made 7.
- Concession Cards Acceptance of Transport Scotland concession cards on trams (CEC Action)
- Information on any requirements for approval by user bodies
- Evidence File The transfer the files from the old Sharepoint to the new system has yet to be completed.



Produced by	Julian Weatherley & Shirley-Anne Collin	SECTION	CONF			LLY PRIVILE end Project M		FOI(S)A EXEMPT	Employer	City of Edinburgh Council Waverley Court, Edinburgh, EH
Approved by	Julian Weatherley	Issue By:			9 Lochsic	de Avenue, Ed	inburgh Par	k	Address	8BG
Status	FINAL	Issue Date	21 st Janua	ry 2013 KEY MILEST	BUTTY OF STREET	NG PERIOD	8 ^{t*} Decemb	oer 2012 – 5 th January 2013	Project:	Edinburgh Tram Network
			n		C-B-E					
ction	Description	Rev 5 Schedule	Forecast/Actual	8-A=D Var. (d's)	Momtin	Complete	Crit. Path		Comme	nts
ction Completic		Date	Date	yar. (0.3)	Period	Complete	Crit. Fath	<u> </u>	Commi	nias
.L	Section B; Test Track complete	08-Mar-13	08-Mar-13	0	¬		Y	1mth mymt to Section	on C data as a	secult of language
L	Section C; All construction complete	09-Apr-14	21-Nov-13	139	4		Y	requirement for ord	ering tamper	and the second s
LL n Street	Section D; open for revenue	08-Jul-14	02-Mar-14	128	4		Υ	requirement for ord		
aymarket							_			
n-Street	Civil Works complete (H1 to H3B)	17-May-13	22-Apr-13	25	中		N	with pavement cons	truction over	
n-Street	All Remaining Works Complete (H4 to H6)	25-Jul-13	27-Jun-13	28	₽.		N	H3 - Limited progres good progress with p Impact from SP6 rail	pavement con	
handwick Place n-Street	Civil Works Complete Palmerston Place to	18-Oct-13	19-Apr-13	182	4		N		following tra	ack laying rework in SP6 ahe
n-Street	Crescents (SP2 & SP6) Civil Works Complete Crescents including	05-Jun-13	05-Jun-13	0			N		sing SP4 but r	o progress has been made
n-Street	Atholl West Tie-in (SP4 & SP5) Civil Works Complete Crescents to Lothian	25-Mar-13	24-Apr-13	-30	T		N		P3 delayed d	ue to utilities. Issues now
	Road (SP1 & SP3) All Remaining Works in Shandwick Place	Commence of the Commence of	Jacob M. Santa	-200				resolved.		
n-Street	Complete (SP1 to SP7) (incl. commissioning & testing)	04-Dec-13	11-Jul-13	146	•		N	within SP4, including		ss than planned progress p civils works
n-Street	Princes St Tram Stop Complete	04-Oct-12	02-Apr-13	-180	1		N	No progress in the p		
n-Street	Commence M&E Works	07-Oct-13	21-Mar-13	200	•		N	is earliest expected		 M&E commencement da fraco will claim for progres
n-Street	All Remaining Works complete	22-Nov-13	31-May-13	175	\Rightarrow		N	against OHLE 10		
outh St Andrew	vs St / Waverley Junction									
n-Street	Remaining Civil Works Complete	03-Oct-12	23-Jan-13	-112	4		2			urce on works at 'Plug'
n-Street	All Remaining Works Complete (incl. Commissioning & testing)	25-Oct-12	05-Apr-13	-162	企		Z	non critical.	delay in otr	er areas , Activity remains
t Andrews Squ	are & St Andrews St North				2		un-	-		
n-Street	Civil Works Complete	15-Oct-12	20-Feb-13	-128	Û		N	Civil resource redist	ributed to co	ncentrate in "Plug" opening
n-Street	All Remaining Works Complete (incl. Commissioning & testing)	26-Oct-12	05-Apr-13	-161	企		N	Activity remains nor	critical.	
ork Place		- and services	Carrier on the Control	No.			1 24 T	I		
n-Street	Complete Enabling Works	N/A	29-Nov-12	N/A	•		N	York Place handed o bus station entrance		is two stages (West/East o
n-Street	Commence Main Works	22-Nov-12	09-Nov-12	13	4	* *	Y			
n-Street	Civils Works Complete All Remaining Works Complete (incl.	29-Oct-13	14-May-13 25-Jun-13	1.50.00	1		Y	Completion of Enable completion date.	ling works ha	s impacted on overall forec
n-Street n-Street	Commissioning & testing) York Place Tram Shelter installed	18-Nov-13 08-Mar-13	14-Mar-13	146 -6	1		Ÿ	Dates not yet adjust	ed to follow p	proposed BBS fitout solution
on-street	YOR Place fram Shelter installed	US-IVIAI-13	14-Mar-13	700	**			to TCN 651 & 656 (02	Sep13)	
Off-Street Off-Street	W4, 19-29; Russell Rd. Retain Complete S21A Roseburn St. (501-505 Viaduct) ready for	29-Oct-12 27-Sep-12	25-Jan-13 16-Jan-13	-88 -111	1		N	Final Finishes remai		nforced Earth and Blockwo
Off-Street	Track Civils S21B Murrayfield Retaining Wall ready for	11-Oct-12	23-Jan-13	-104	T		Y			nforced Earth and Blockwo
Off-Street	Track Civils Water of Leith Bridge Complete	31-Aug-12	28-Feb-13	-181	T.		N	Is driving Track Layin Currently using this		ayfield Corridor D. Final Finishes remaining
Off-Street	S22A Balgreen Road Bridge Complete Track civils - (Formation and Ballast) between	18-Sep-12	18-Oct-12	-30	a	- >	N	Complete		CANAL WORLD WARE IN
Off-Street	MUS and BAL Complete 5B Track Ready for Tamping	06-Feb-13 31-Oct-12	05-Mar-13 29-May-13	-27 -210	春		Y	S218 continues to dr Track laying resource		
off-Street	Tamping Ballast Section 58 Complete	21-Nov-12	20-Jun-13	-211	T		Y	Long lead requireme	ent of orderin	g 5B Tamper is driving earli
off-Street	5A Track Ready for Tamping	25-Mar-13	23-Apr-13	-29	T		N	date 5A Tamper is du Further slip is as a re	ue	
off-Street	5C Track Ready for Tamping	19-Jun-13	10-May-13	40	1		N		oor progress	against Expanded program
off-Street	Tamping Ballast Section 5A (&5C) Complete	16-Apr-13	20-Jun-13	-65	4		Υ		ent of orderin	g 5A(&5C)Tamperis drivin
off-Street	Full Line Pre-Stressing and Grinding	16-Sep-13	23-Aug-13	24	•		Y		age works has	changed from E&M (OHLE
)ff-Street	5A Testing & Commissioning (5C-2A T&C)	23-Sep-13	06-Aug-13	48	T.		N	Removed from Crit	Path. Empha	sis on final stage works has finishes for full length of
SCOON PARTICIPATE		AND COMES TO MEN	ACCUPANTAL CONTRACTOR		-	-		route	Calculate and Control Manual Control	ollowing proposed BBS fito
off-Street	Balgreen Tram Shelter installed	07-Aug-12	19-Jul-13	-346	0		N	solution to TCN 651	& 656 (29Apri	
off-Street	Saughton Tram Shelter installed	13-Dec-11	05-Jul-13	-570	•		N	solution to TCN 651	& 657 (09Apr)	
ff-Street	Bankhead Tram Shelter installed	19-Mar-13	21-Jun-13	-94	1		N	solution to TCN 651	& 658 (19Mar	
off-Street	Gyle Tram Shelter installed	21-Jan-13	03-Jun-13	-133	中		N		& 658 (18Jan 1	3); NOTE: in Rev5 Fibre Op
ff-Street	Gateway King Post Retaining Structure complete	03-Oct-12	20-Dec-12	-78	1	~	N		doser alignn	nent to TT assessment. TT
off-Street	Gateway Post Embankment Drainage Complete	08-Jan-13	11-Feb-13	-34	4		N		ws further 12	d slip against their schedul
off-Street	Gateway Track laying underway	22-Feb-13	26-Feb-13	-4	1		N	12d slip due to progr		civils
epot & Test acilities	Gogar Burn Tram Stop Complete	17-Oct-12	04-Dec-12	-48	4	~	N			
epot & Test acilities	AIR Tram Stop Complete	21-Dec-12	21-Jan-13	-31	0		N	E&M fitout continue	s	
epot & Test ecilities	Tamping Ballast Section 7A Complete	26-Oct-12	26-Oct-12	0	=>	¥	¥	Remains key Date di	riving Section	B completion
epot & Test acilities	Overhead Catenary Systems 7A Complete (pre SP2.0 testing)	26-Nov-12	16-Nov-12	10	4	~	Y	OHLE works now cor	npleted	
epot & Test acilities	Rail Systems 7A Complete	17-Sep-12	23-Nov-12	-67	û	~	N	Points Machine set-	up remaining	8
ram Test & Cor	nmission	06.0	OF D		anh.	372	24		327	
ection B	OCS Energised (IP1.0) AIR-Depot Test Track available	06-Dec-12 14-Dec-12	05-Dec-12 12-Dec-12	2		~	Y			
	(post IR1.0)		05-Feb-13	-1			Y	Driven by commission	nalog oton	
ection B	Tram Bourne Dynamic Tests Complete All Secn B SAT/SITs complete. Ready to	04-Feb-13	03-160-13	1000			150	briver by commission	ming pran	



Produced by	Martyn Ayres & Shirley Collin	SECTION		//RONMENTAL, QUALITY, ASSUR LL – LEGALLY PRIVILEGED AND F	Employer	City of Edinburgh Council	
Approved by	Julian Weatherley	Issue By:	Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park				Waverley Court, Edinburgh, EH8 8BG
Status	FINAL	Issue Date	21st January 2013	REPORTING PERIOD	8 th December 2012 to 05 th January 2013	Project:	Edinburgh Tram Network

PROGRESS

SHMMARY

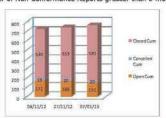
- Independent Competent Person Advice of Possible Non Compliance (ANC) 002 - Confirmation of 'Duty Holder' ability to deliver Safety Verification remains open, the site visit took place in December 2012, closing a number of the actions, arrangement are currently being made to close the last items relation to drainage with 88x.
- Requirements Management -39% of requirements relating to Section A handover deemed as 'Compliance Confirmed'.
- Evidence File The IT provider (Amor) have successfully carried out a test of the updated software, CEC are due to approve the migration in January 2013.
- Section B Testing and Commissioning is currently ongoing, with the successful completion to the tram dynamic testing. 34 out of the 90 required have now been completed.
- Total No of NCRs raised is 762. 23 NCRs were raised during the period, with 151 NCR remaining open.

QUALITY

NCRs by Period

Total number of Non Conformance Reports raised - 762

- Total number of Non Conformance Reports raised in period 10 23
- Total number of Non Conformance Reports closed in period 10-38
- Number of Non Conformance Reports greater than 6 months old -49



ENVIRONMENT

Environmental

- Edinburgh Airport has raised concerns regarding erosion of the Gogar Burn in the vicinity of the tram works. Alastair Sim form CEC has requested copies of photographs from the airport authority to assist with investigating this matter – currently progressing issue of photos.
- 3 Environmental incidents were recorded during period 10 relating to noise and spillage. Inspections to concentrate on noise mitigation during next period.
- Meeting held with John Lawson CEC Archaeological Services. He has advised that further work / money will be required to progress the post excavation works to closure. This money is already accounted for. Full details to be provided by John Lawson during the next period.
- . The removal of the waste from Baird drive has now been completed

INDEPENDENT CERTIFIED PERSON

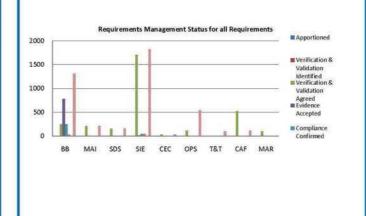
- B&S provided evidence at the meeting on 12th December 2012 to confirm the new infrastructure from the depot to the airport was complete, allowing the trams to start their dynamic testing.
- Advice of Possible Non Compliance (ANC) 002 Due to cancellation of Safety Verification (SV) audits SVS Audit TSA/12/03 and InfraCo to support the current format - remains open.
- Request for Opinion (RFO) number 27 (tramway signage) has now been closed and submitted to the ORR for approval. The ORR have now requested further information, this request has been passed to Edinburgh Trams.



REQUIREMENT MANAGEMENT

Progress

- The review of Employer Requirements is currently focusing on items associated with Section A handover. Currently 169 out of 435 for Section A requirements are deemed 'compliance confirmed', discussions are ongoing with B&S to provide the additional information required to complete Section A.
- 2. In total 316 requirements for the project are now deemed 'compliance confirmed'.



Assurance - Section B

- The track grinding operation started on the 10th December 2012.
- Track clearance walk out took place on 12th December 2012.
- 3. Tram dynamic testing has been completed.
- 4. Testing progress is shown below:

No. TESTS TO COMPLETE	87
No. TESTS COMPLETE	45
No. TESTS	19
OUTSTANDING THIS PERIOD	



CONSENTS

Key Consents due in the next period, with full list in the appendix.

Combined Consents requ	iired			
	Total Required	Total On Hold	Total Outstansding	Total Closed
Third party	21	4	14	3
Technical Informatives	6	1	0	5
Planning Consents	38	15	0	23
Other Approvals	13	0	2	11
Legal Agreements	15	0	9	6

1. The Key area remains 3rd party Consents, (Build over agreements and Building fixings).

	5	OFT ANAL	YSIS
SUCCES	SSES	OPPORT	TUNITIES
1.	All stakeholders are working well together at the depot.	1.	Increased monitoring of onsite activities. Project Management resources will become
2.	Establish a detailed testing and		part of integral On Street assurance process.
	commission workshop	2.	
3.	Review of supervisor competencies		managers.
FAILUR	ES	THREAT	s
1.	None.	1.	Statuary bodies co-operation.
		2.	Late issue of documentation by BBS.
		3.	Potential gaps between contracted maintenance responsibilities
		4.	Visibility of B&S design and assurance documentation.

Produced by	Andy Scott & Shirley-Anne Collin	SECTION	CONFIDENTIAL - LEGALLY PRIVILEGED AND FOILS JA EXEMPT			CONFIDENTI		Employer	City of Edinburgh Council
Approved by	Julian Weatherley	Issue By:	Tur	ner & Townsend Project Management 9 Lochside Avenue, Edinburgh Par	Address	Waverley Court, Edinburgh, EH8 8BG			
Status	FINAL	Issue Date	21 st January 2013 REPORTING PERIOD 8 th December 2012 – 5 th January 2013		Project:	Edinburgh Tram Network			

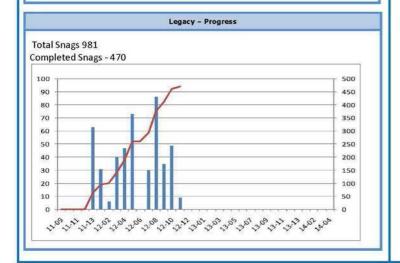
PERIOD

PROGRESS

- York Place handed over to Infraco Good progress being made
- 2. All critical sites are in the possession of Infraco $\,$ for installation of trackwork
- Infraco progressing well with trackslab, track installation, and carriageway reconstruction in all areas from Haymarket to York Place
- 4. Cathedral Lane sub-station Delays being mitigated
- 5. Number of challenges in St Andrew Street but critical path not at risk
- Haymarket / Manor Place TM switch completed 14th December 2012. Access available to final area of trackslab for utility proving.
- 7. Type 2 utility conflicts progressing well and metrics now finalised
- Scottish Water relationship remains fragile but steering group makes positive early progress.
- 9. Leith Walk Turner & Townsend re-engaged in reduced scoping exercise.
- 10. Tender documents for works at the crescents complete Strategy being finalised

LOOK AHEAD

- Track slab, track laying and carriageway reconstruction will continue in all On Street areas
- 2. Continue with Type 2 conflicts
- 3. Commence Broughton Street manhole
- 4. Turner & Townsend will continue to react to utility discoveries by Infraco.
- Continue to work with Infraco to recover time lost due to utility conflicts replenish the time bank.
- 6. Work with CEC in seeking to limit the scope of Scottish Water legacy works
- 7. Monitor Cathedral Lane sub-station works on a weekly basis



PHOTOGRAPHS





Princes Street / St Andrews St

St Andrews Street





Haymarket



York Place

Princes Street Plug

KEY ISSUES

- 1. Scottish Water relationship generally
- 2. Type 2 conflicts and SW Legacy issues Possible delays.
- 3. Legacy works North of York Place.
- 4. Cathedral Lane Monitor Works programme
- 5. Time Bank Recovery.

CEC ACTIONS / DECISIONS

- 1. Scottish Water overarching terms
- OLE Building Fixings Legal Agreements with landowners (some progress made during the period)
- 3. Shandwick Place Walls Strategy

SOFT ANALYSIS

SUCCESSES

- Working relationships with BBS remains good, particularly on site
- Speedy reaction to conflict issues

OPPORTUNITIES

- Optimize revised traffic phasing and work with Infraco to replenish time bank
- Return buses to Shandwick Place before 31st March 2013

FAILURES

- Carriageway vertical alignment in south St Andrew St
- 2. SDS OLE design
- MUDFA design, as builts, contract administration & supervision

THREATS

- Type 2 Conflicts
- 2. Legacy works at Leith Walk
- Legacy works within tram
 worksites
- Scottish Water relationship and derogations required to specification along route.
- 5. Unknown utilities
- Infraco delay to Rev 5 due to utilities

Produced by	Shirley Mushet & Shirley-Anne Collin	SECTION		OFF STREET DASHBOARD RE L – LEGALLY PRIVILEGED AN	Employer	City of Edinburgh Council	
Approved by	Julian Weatherley	Issue By:	Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park				Waverley Court, Edinburgh, EH8 8BG
Status	FINAL	Issue Date	21st January 2013	REPORTING PERIOD	9 th December to 5 th January 2013	Project:	Edinburgh Tram Network

PROGRESS IN PERIOD

- 1. Tram testing commenced on Section 7;
- 2. Majority of civil snagging completed on Section 7;
- 3. Wall construction continuing at Edinburgh Gateway;
- 1. Gateway attenuation tank backfilling completed;
- 2. Gyle Broadway substantially complete;
- 4. Gyle to Edinburgh Park civils substantially complete;
- 5. Edinburgh Park Central Shelter installed;
- 6. Baird Drive material removed;
- 7. Murrayfield embankment construction vertical levels at S21B&D have been progressed;
- 8. Roseburn structures waterproofing and transition slab works continuing;
- 9. W3 reinforced earth construction continuing
- 10. ScotRail manhole relocation works ongoing;
- 11. Drainage and ducting on W4 ongoing;
- 12. Roseburn Street footpath and Murrayfield Tram Stop platform work on going;
- 13. Bankhead tracklaying ongoing; and
- 14. ScotRail access gate installed.

Edinburgh Gateway

PHOTOS



Murrayfiled



Edinburgh Park Shelter



KEY ISSUES

- Completion of Eastfield Avenue in time for Section B handover; scope requires to be defined.
- 2. Murrayfield sewer permanent diversion; access to be confirmed from SRU;
- Mr Kahlil's extension at Roseburn requires to be reinstated, it is not clear that this was part of the settlement agreement.
- Power draw at the depot an issue; unable to power up any more than 4 vehicles in the Depot yards area. Infraco to propose a solution.
- 5. Platform edges require to be checked throughout the network; and
- 6. Cracking has appeared on Section 7 track slabs, this is currently being investigated.

CEC ACTIONS / DECISIONS

- 1. Close out of the wayleave with Scottish Power and Network Rail at Haymarket.
- 2. Scottish Water buildover agreements require to be progressed.
- 3. Verity House commercial position to be decided and agreed with Network Rail.
- 4. Network Rail operational and bridge agreements require to be progressed.

SOFT ANALYSIS SUCCESSES **OPPORTUNITIES** 1. Tram test running in Section 7 achieved. 1. Two work fronts on track installation at Murrayfield would improve the programme. 2. Opportunity to seek recovery from Souters on the Murrayfield original sewer alignment. 3. Cost saving on tamper's one visit rather than two. **FAILURES** THREATS 1. Stakeholder wish-lists as the final infrastructure is now becoming visible. 2. Completion of Eastfield Avenue in time for Section B handover.

LOOK AHEAD

The following items will be progressing during the coming period:

- 1. Tram testing continuing on Section 7;
- 2. Wall construction continuing at the Gateway site;
- 3. Piling for OHLE masts at the Gateway site;
- 3. Overhead line works through Edinburgh Park;
- 4. Edinburgh Park bridge plinths to be recast;
- 5. Murrayfield sewer diversion shall commence;
- ScotRail manhole construction to complete;
- W3 ducting and drainage ongoing;
- 8. Haymarket corridor track laying shall continue; and
- 9. Tamper to be booked.

Produced by	Willie Delaney & Shirley Anne Collin	SECTION	CONFIDENTI	TRAMS CONFIDENTIAL – LEGALLY PRIVILEGED AND FOI(S)A EXEMPT Employer			
Approved by	Julian Weatherley	Issue By:	Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park				Waverley Court, Edinburgh, EH8 8BG
Status	FINAL	Issue Date	21 st December 2013	REPORTING PERIOD	8 th December 2012 to 5 th January 2013	Project:	Edinburgh Tram Network

PHOTOGRAPHS / KPIs PROGRESS IN PERIOD **KEY ISSUES**

PROGRESS IN PERIOD

- 1. Test and Commissioning Delivery of Trams and testing on the Mini Test Track (MTT) continues to progress ahead of schedule
 - All trams have now been delivered to Gogar Depot
 - 25 have completed Interim Routine Testing on the MTT
- 2. Tram Test & Commissioning (Section B) 4 Trams completed Routine Testing on Section B (to 70 kph) with 1 Tram already having been awarded its Interim Type Test Certificate, in accordance with Section B Completion requirements
- 3. System Acceptance and Integration Turner & Townsend are now attending fortnightly Section B Test & Commissioning Control meetings (chaired alternately by CEC and B&S).

The 'Section B Tracker', developed by Turner & Townsend to monitor the progress of significant test, commissioning and integration activities for Section B, with now be managed and published by Edinburgh Trams.

Vesting of Trams with CEC - Turner & Townsend and CAF have developed a procedure to define how trams are to be vested with CEC, in line with Tram Supply Agreement

Turner & Townsend are currently discussing requirements for the award of Certificates of Tram Commissioning with the Tram Inspector, as these are a pre-requisite to vesting with CEC.

5. Fare Collection - The contract for the supply and maintenance of the Fare Collection System has now been awarded to Parkeon Transit, by CEC. Turner & Townsend will continue to Project Manage the development and implementation of the system on behalf of CEC.

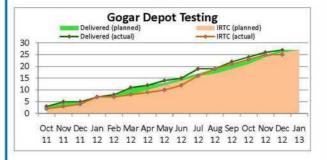
Parkeon will produce a monthly report, extracts of which will be included in the Turner & Townsend monthly reports.

Design specification development is well underway, with Edinburgh Trams and Lothian Buses heavily involved in the development and acceptance of requirements, which are due for completion on the 21st of February 2013

Turner & Townsend is awaiting confirmation on the dimensions of the CCTV poles to be used in city centre tramstops from B&S, before additional information on Platform Validator (PV) installation can be provided.

Sub-Contractor Direct Agreements - CAF have submitted a number of agreements with their suppliers, as required by the Tram Supply Agreement, however some of the wording has deviated from that in the relevant Contract Schedule. These amendments are currently being reviewed by CAF.

Gogar Depot



Trams scheduled for testing next period	Date
Tram 26 (#256) to complete MTT testing	15/01/2013
Tram 27 (#269) to complete MTT testing	18/01/2013

LOOK AHEAD

The following items will be progressed during the coming period(s):

- Test and Commissioning (end February 2013):
 - All 27 trams have been delivered to Gogar Depot.
 - All 27 trams will have completed Routine Testing on the MTT.
- 2. System Acceptance and Integration:
 - Ride Quality Type Tests completed.
 - Dynamic EMC Measurement tests completed.
 - Turner & Townsend tracker used to accurately report on test and commissioning activities and identify significant risks to Section B Completion.
- 3. Vesting of Trams with CEC:
 - Agreement on how and when additional Trams can be vested with CEC to be reached with the Tram Inspector, CAF and CEC.
- Fare Collection:
 - Monthly reporting commenced.
 - Monthly progress meetings commenced.
 - Design and configuration specifications completed.
 - Manufacturing of equipment started.

Tram Commissioning Progress



KEY ISSUES

- 1. CAF have issued a letter detailing potential additional project costs in excess of £2M, due to the delay to the completion date between Rev 2 and Rev 5 of the project programme.
 - Turner & Townsend have responded to this letter requesting a meeting with CAF, to better understand the potential costs involved and their justification.
- The delay to the signature of the Fare Collection system contract has delayed the 'Planned Acceptance Date' by four weeks. A Client Change Notice (CCN) has been issued by Parkeon (as agreed with CEC) to delay the date until 18/01/2013.
- 3. Parkeon are awaiting some outstanding decisions on equipment and functionality:
 - Acceptance of Transport Scotland concession cards on trams (CEC Action)
 - Information on any requirements for approval by user bodies (CEC Action)
 - Dimensions of Platform Validator mounting poles (B&S Action)

Turner & Townsend will continue to follow up on the above actions, as they may impact the installation of the system

Turner & Townsend will use the tracker which is being managed by Edinburgh Trams to monitor key test, commissioning and integration activities, and raise issues identified during fortnightly control meetings chaired by B&S.

OPERATIONAL ISSUES

- The water ingress into the depot building maintenance pits remains to be resolved by B&S. Further action is now required as CAF have confirmed that this issue is affecting their operation.
- The restriction on the number of pantographs that can be raised at any one time in the Depot is affecting CAFs ability to complete conservation maintenance.

 Turner & Townsend have asked CAF to quantify the delay, to better understand the issue.

CEC ACTIONS / DECISIONS

- 1. Acceptance of Transport Scotland concession cards on trams (CEC Action)
- 2. Information on any requirements for approval by user bodies (CEC Action)

SOFT ANALYSIS

SUCCESSES

- 1. Tram delivery and testing continues ahead of schedule. CAF intend to complete testing ahead of the scheduled end of January date.
- The Tram Ticketing Agreement has now been awarded to Parkeon Transit.

A press release has been drafted by Parkeon and submitted to CEC for approval

OPPORTUNITIES

- Start system testing and commissioning on completion of Off Street Section (Airport to Shandwick Place crossover) leading to earlier commencement of Revenue Service date (early partial service on Off Street Section and early service on full route).

FAILURES

None identified.

THREATS

Following a 4 week delay in the signature of the Tram Ticketing Agreement, any further delay could risk the delivery of the system prior to passenger service.

Produced by	Shirley Collin, Mike Mackenzie & Craig Forson	Function	co	Employer	City of Edinburgh Council		
Approved by	Gary Easton	Issued By:		& Townsend Project Ma D Lochside Avenue. Edin		Address	Waverley Court, Edinburgh,EH8 8BG
Status	FINAL	Issue date	21 st January 2013	Reporting Period	8 th December to 5 th January 2013	Project	Edinburgh Tram Network

Statu	S HINAL		Issue dat	e 21 January	2013	Reporting Period	8" December	10.5	January 2013	Project	EC	inburgh Fram Network	
	SUMMARY			VALU	JE ENGIN	EERING				_ (HANGE		
			Item		£K	Comment		O	n Street Work	s Estimate			
	Contract Sum Change		Remove embargoes and revised TM		0	22 week saving reduced to 16.6 at period end 28/4/12			Description		ICC Certs to Date (£k)	Action	
The same special		-	Setts (separ	rate CEC budget)	809	£788k CEC contribution £20k change in spec	(SAS) and	E	Disruption and oth	ner costs associated	\$1,775.55s	Ongoing monitoring of costs	
Totals	479,660 23,70	0 503,360	De-scope pu Sa	ublic realm at St Andrew	2,050	Instructed, monitored the changes in progress. Ad			with utilities Temporary accom	modation for utilities	2	and mitigation of risks Complete	
Change in Pr	rogress	5,579				opportunity identified th remeasure		C	contractor		70		
Anticipated (nticipated Change		Contribution	s 3rd Party Agreements	3,002	Miscellaneous 3 rd party o	contributions		Road re-construct (opportunity to re		78	Opportunities to be valued one scope established	
Contribution	s	-7,696	Designation of the Property of	orks at Forth Ports	2,443	Instructed, approved ch	7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	9	Scottish Water div	version Princes St	253	Complete	
Forecast Cha	ange / Contributions	1,952	Omit Airport Tram Kiosk and Canopy		150	Instructed, monitored th changes in progress	nrough			o – temporary infill	204	Complete	
			Temporary I	tram stop at York Place	150	Instructed, monitored the changes in progress	nrough		Princes St Traffic Manageme	nt costs for	459	Ongoing review and mitigation	
Forecast Tot	precast Total 505,312		Redeployme	ent of Trams	200	Included in CEC budget	code	а	amended program	ime constraints		of costs being carried out	
Risks (refer	risk section below)	2000000	Cancel track	York Place to	1,100	Instructed, approved ch	ange	F	Revised drainage	design	6	Ongoing agreement on value o amended scope	
Opportunitie	s (refer opportunities section below)	3,571	Lawrence Control Control	ns works at Tower Place	100	Instructed, approved ch	ange		Geotextile liner to Clifton Terrace void		2	Complete	
Risks & Oppo	ortunities	3,571	Road re-con	struction depth	350	Opportunities for saving with this limited – any c captured in OSWE		8	Additional Scope - Miscellaneous		312	currently being undertaken	
Revised Fore	ecast	508,883	Design freez	ze north of York Place	. 0	No saving obtained		Schedule E Exclusions		274	Ongoing -refer to Schedule E of contract for full list		
Budget		500,154	Lay off TM a	t Forth Ports/Leith Walk	0	Works now complete - a finalises	all TM costs	5	Setts Changes		51	Ongoing assessment through contract	
			Roseburn Vi	aduct Cladding	308	Instructed, monitored th changes in progress	nrough		Contaminated ma	terials	62	Ongoing	
			De-scope cr (Haymarket	ew relief facilities	74	Instructed, monitored the changes in progress	nrough	C	Cathedral Lane Su	ubstation	3	Initial site investigations	
			Opportunit	ies secured	9,650			7	Total ICC Value	to date	£2,796k		
			Opportunit	ies to secure	500								
								C	ommercial Iss		hue.	Action	
				is and TM – total value in: d as an opportunity by the		on 22 week saving. This is am.	no longer	1	Mark-ups on chan			e instructed Turner & Townsned	
			York Place Tramstop – amended design complete; agreement on revised price to be established between BBS and Turner & Townsend. Road reconstruction depth – Opportunity to reduce road reconstruction offset by foam					proposing a mark-up which results in double recovery of prelims and is contrary to the principles of the contract.			to certify the additional markup for work carried out to date. Future issues over markups to be agreed on a case by case basis.		
			concrete a	and extent of dig required				C	Off Street Utilities	; BBS claim		Townsend require instruction	
	RISK - Signif	icant Movem	ent in Period	(Dec 12/Jan 13):				- 0	tertain utilities (pi diversion in NIL la	nd) are	acceptan	independent certifier as ce would be a departure from th	
Risk ID	Risk Description	Old Level	Movement		CAEis'	Comments	enmana la lia-		excluded from the Rev 3a to 4 Prolor			nt agreement e refused to provide any further	
ED128	Additional costs may be claimed if CAF are asked to delay their programme in line with rev 5	NEW	1	RED with Marh	all agreeme asked to w	nally working to rev 2 prog ent which covered costs to ork to rev 5 which pushes	those dates.	E	Rev 3a to 4 Prolor BBS have not just ncurred to T&T's	ified the costs	informati	e refused to provide any further on to demonstrate incurred to provide further guidance.	
Additional Co Risks review	omments: ed, actions updated and added and amendments to probat	oilities and impa	cts made. Abov	e is the only significate ch		e period.		s	Claims for disrupt stated that there i disruption in secti	is a cost for	claims fo what is ir estimate	part 45 makes no provision for r delay and disruption beyond ncluded in the period end (i.e. any claim should form part end estimate)	
								0	CAF have submitted and the forces of the for		to suppor	ract programme does not appea rt the claim although contract ents conflict with this.	
								5	Scottish Water res	source forecast	Resource	is higher than currently allowed review to be undertaken with a educe headcount.	



Appendix 2 – Health, Safety Environment and Consents Tracker





Project Report - Period 10

1.0 Executive Summary

Executive Summary

- Independent Competent Person Advice of Possible Non Compliance (ANC) 002 Confirmation of 'Duty Holder' process to deliver Safety Verification remains open, Currently remains open pending resolution of TSA/12/03 Section 1C Slips, Trips, Falls (Two wheel vehicles); this audit is currently being progressed a formal report will be issued by 31st January 2013.
- Requirements Management —39% of requirements relating to Section A handover are now deemed 'Compliance Confirmed'. The rise in the period of 1%. Weekly meeting are held with B&S to ensure there is a common understanding of the requirements to achieve compliance confirmed and to push B&S for the provision of the information, to facilitate closure of remaining Section A item as well as agreement of the items required for Section B.
- Evidence File A test migration of information from the old site to SharePoint is planned for period 11. The SharePoint test has now been successful. The IT supplier is now awaiting final approval to be processed from CEC.
- Safety Verification Scheme Audits Safety Verification audit TSA/12/01 Progressing to closure.
 TSA/12/03 Section 1C Slips, Trips, Falls (Two Wheel Vehicles) site visit carried out 13th December 2012, no major issues identified.
- Tram All 27 trams have now been delivered to the depot.
- Infrastructure Testing and Commissioning of Section B progressed this period with including the running
 of trams from the depot to the airport and successfully completed the dynamic testing of the five trams
 required for section B.
- Non Conformance Reports This section has been removed from the Deliver a Safe Tram Report and will
 now be reported in the Deliver the Tram Safely Report.

2.0 Safety Verification Scheme (SVS)

Evidence File — A test migration of information from the old site to SharePoint is planned for period 11. The SharePoint test has now been successful. The IT supplier is now awaiting final approval to be processed from CEC.

- Safety Verification Audit (SV) Audit TSA/12/03 Section 1C Slips, Trips, Falls (2 Wheel Vehicles); a site inspection was carried out at Princes Street 13/12/12 in order to address outstanding queries. A formal report is to be compiled. No major issues were identified during the site inspection however not all items could be inspected and so the audit remains open. These items will be noted as findings in the formal report.
- SVS Audit TSA/12/01 Operator currently progressing findings.
- SVS Audit TSA/12/02 Findings 001 and 002 were formally closed during the period.
- Review of SVS Audits, including development of new schedule to take place during period 12.
- It is proposed that the SV function be managed by ET from January 2013.

3.0 Independent Competent Person

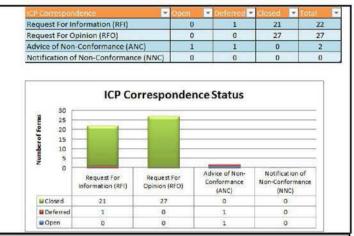
ICP Issues

- The PSCC scheduled for the 12th December 2012 did not take place, the next PSCC meeting will be held on the 23rd Jan 2013.
- Advice of Possible Non Compliance (ANC) 002 (Due to cancellation of Safety Verification (SV) audits SVS Audit TSA/12/03 and Infraco to support the current format) – remains open.
- Request for Opinion (RFO) number 27 (tramway signage) DEL.HSQE.4085 is now closed.
- Request for Information (RFI) number 22 is deferred to post construction as it is relevant to the DKE. The RFI was discussed prior to the dynamic testing of section B due to clearance issues raised following the structural gauging check. The gauging check noted DKE infringements in various locations including the platforms on all three stops and six poles. During the dynamic testing it was seen the clearances were greater than expected. B&S are to revert, date to be agreed, following a review of the calculations advising why there was a significant difference between the theoretical and actual measurements.





Project Report - Period 10



4.0 BBS Design Construction and Testing & Commissioning Assurance

Design

Electromagnetic Compatibility (EMC)

- B&S Correspondence (Ref. ETN (BBS) CEC\$TEE&ABC#054959) System Integration Test (SIT) Procedure Overall Magnetic and Radiated Emissions (IO 1.0) was submitted for information during the period 2. The
 document has been reviewed and comments have been passed to B&S correspondence reference INF
 CORR 8492 sent 6th August 2012. The response is still outstanding.
- B&S stated that results for Rail Conductance for Princes St do not meet the contract criteria of being five times better than standard. B&S will produce a rationale in support of a concession to this requirement. A follow up meeting was held week commencing 22nd October 2012. It is expected that the results for Princes Street will not reach the contract levels and so B&S are likely to seek a concession. It is not expected that the measured values will pose a significant risk for accelerated corrosion to buried metallic infrastructure; however the independent stray current expert will have to accept B&S argument. This is still ongoing, submission awaited from B&S.
- B&S Correspondence ETN(BBS)CEC&TEE&ABC#060100 SIT Procedure Immunisation Measurements (10 2.0) A meeting was held with NWR to discuss the above submission. Key actions arising were:
 - NWR to refamiliarise themselves with the documents due to the significant time lapse since the matter was last discussed with them.
 - B&S are to provide a schedule including dates when the tests are required.

Trackform

- The draft maintenance ware limits were forwarded to TSS for review. The review noted that the limits are not out of keeping but the maintenance strategy is required to put the limits in context. The final track gauge is also required to before the ware limits can be finalised.
- A site walk attended by TSS was held on 10th December. No significant issues were noted however it was agreed B&S would provide the snag list they raised against BAM rail for review.

Testing & Commissioning

 It is proposed from January 2013 the coordination of the testing and commissioning including technical support is managed by ET. To note that it is only the co-ordination ET will responsible for and not the delivery of the results.

Trams

 All 27 trams have now been delivered to the depot. Five trams have now completed testing and commissioning relevant to section B. The remaining trams are currently undergoing static and dynamic testing.

Infrastructure

Period10 12/13

• Testing and commissioning of Section B is ongoing including the electrification of the overhead line

Deliver a Safe Tram Report





Project Report - Period 10

allowing the successful completion of the dynamic gauging run on the 12th December. This allowed CAF Tram testing and commissioning to commence following a two day driver familiarization period.

• A status of the proposed tests is shown below:

No. TESTS TO COMPLETE	90
No. TESTS COMPLETE	34
No. TESTS OUTSTANDING THIS	9
PERIOD	

The permit to work system for entry to the CDM site was bought into operation to allow for a tram and
construction activities to occur on the route at the same time. The permit to work system is supported by
a Track Occupency Schedule.





Project Report - Period 10

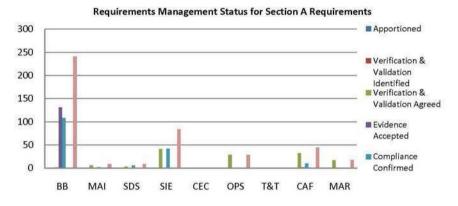
5.0 Metrics

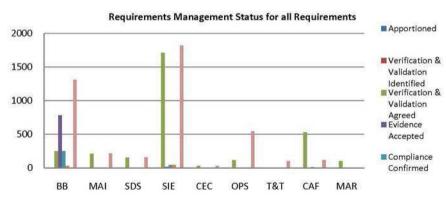
 Graeme Walker of the Turner & Townsend Assurance Team is currently reviewing the metrics process in order to restart and improve the process – this is currently ongoing.

6.0 Requirements Management

Progress

- Review of requirements is currently focusing on requirements associated with Section A handover. Currently 169 out of 435 Section A requirements are deemed 'compliance confirmed' – 39%, discussions are ongoing with BS regarding the reamining Section A requirements.
- In total 316 requirements are now deemed 'compliance confirmed'.
- Weekly meeting are held with B&S to ensure there is a common understanding of the requirements to achieve compliance confirmed and to push B&S for the provision of the information.
- A review was carried out with CAF in realtion to a number of their requirements. Agreement was reached to change to the V&V Method for 14 requirements. In addition CAF will now submit concessions for eight requirements.
- The review of concessions associtated with requirements is progressing well with three remaining concessions to be agreed. It is likley that further concessions will be applied for.
- It is proposed from January 2013 the requirements management process is controlled by ET.









Project Report - Period 10

7.0 Deliver a Safe Tram - Required Actions

- Formal report for audit reference TSA/12/03 to be compiled
- Requirements for section A to be progressed to Compliance Confirmed
- Agreement on the revised project roles and responsibilities with respect to SV, testing and commissioning and requirements management.





Project Report - Period 10

pet	1-10	Period	Hours	Time Related RIDDOR	Major RIDDOR	Other injuries	Near miss / unsafe condition	Service damage	Significant Incident	Environmental	RTA	МОР	AFR	SFR	EFR
Project	12/13	Period	60,575	0	0	0	1	3	0	0	0	0	0.00	4.95	0.00
Δ.	12	YTD	1,251,790	3	0	10	41	60	1	33	5	19	0.24	4.79	2.64
	_	13 period rolling	1,586,853	3	0	16	63	82	1	38	5	27	0.19	5.17	2.39
8	- 10	Period	Hours	>3 day RIDDOR	Major RIDDOR	Other injuries	Near miss / unsafe condition	Service damage	Significant Incident	Environmental	RTA	МОР	AFR	SFR	EFR
Infraco		Period	47,149	0	0	0	1	3	0	0	0	0	0.00	6.36	0.00
=		YTD	934,037	2	0	10	30	36	0	18	5	12	0.21	3.85	1.93
		13 period rolling	1,180,100	2	0	16	43	44	0	23	5	18	0.17	3.73	1.95
Other (Tram)	-10	Period	Hours	>3 day RIDDOR	Major RIDDOR	Other injuries	Near miss / unsafe condition	Service damage	Significant Incident	Environmental	RTA	МОР	AFR	SFR	EFR
<u>ا</u>	12/13	Period	7,426	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ę,	12	YTD	209,753	1	0	0	11	23	1	15	0	7	0.48	10.97	7.15
U		13 period rolling	262,753	1	0	0	20	37	1	15	0	9	0.38	14.08	5.71



EXECUTIVE SUMMARY

There were 4 incidents since the last report (3 service damages, and 1 near miss/unsafe conditions). See Appendix A for details.

The rolling 13 Period AFR is at 0.19, better than the benchmark KPI of 0.24 for the project.

CoCP compliance was recorded at 84% during Period 10. See Appendix B for details.

50% of planned PM joint inspections have been carried out during Period 10.

There were no planned Safety Tours scheduled to be carried out in Period 10.

Record: CR8235.3





Project Report - Period 10

HS&E INSPECTIONS SUMMARY (a summary of significant inspection findings can be found in appendix B)

Project Running Totals	HS&E Tours (Directors)	HS&E PM Inspection
Number planned	0	6
Number achieved	0	3

HSQ&E KEY ACHIEVEMENTS

The rolling 13 Period AFR is at 0.19, better than the benchmark KPI of 0.24 for the project.

Key Issues - Points to Note

During this period there was a considerable emphasis on preparing the construction sites for the Christmas / New Year shut down. This included a general clean up of the sites and enhancements to the fencing to make them more robust.

During this period Turner & Townsend have continued work with the contractors to seek assurance of compliance with best practice in a number of areas including

- Working at height.
- Safe operation of RRVs.

A review has been undertaken of the Bilfinger & Siemens incident report regarding the incidents involving two road rail, Mobile Elevated Working Platforms (MEWPs) on the mini test track. The report to be prepared by Stuart Parson (Edinburgh Trams) has been received.

ENVIRONMENTAL SUMMARY

List any significant environmental events, initiatives, breaches etc

Edinburgh Airport has raised concerns regarding erosion of the Gogar Burn in the vicinity of the tram works. Alastair Sim form CEC has requested copies of photographs from the airport authority to assist with investigating this matter – currently progressing issue of photos.

Meeting held with John Lawson CEC Archaeological Services. He has advised that further work / money will be required to progress the post excavation works to closure. This money is already accounted for. Full details to be provided by John Lawson during the next period.

The removal of the waste from Baird drive has now been completed.

Record: CR8235.3



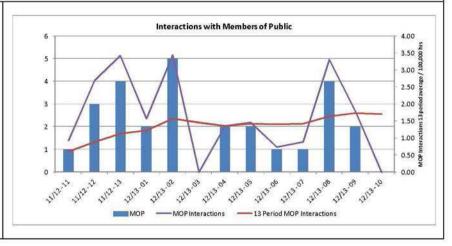


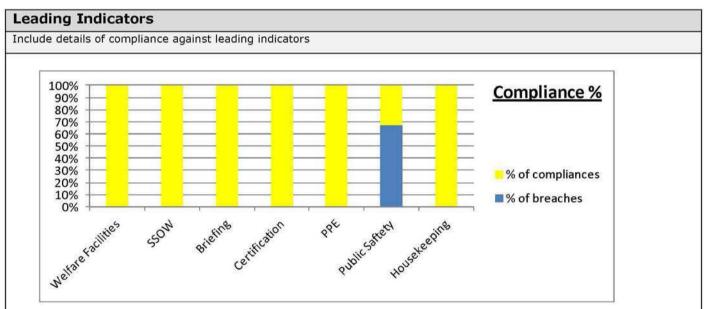
Project Report - Period 10

Member of Public Interaction Summary

List any significant interactions with members of the public, including RTA's, alleged incidents

There were no incidents which involved members of the public during Period 10





CDM Compliance

List any significant quality events, initiatives, breaches etc

Turner & Townsend have received the revised Construction Phase Plan for the project for review. This action is ongoing.

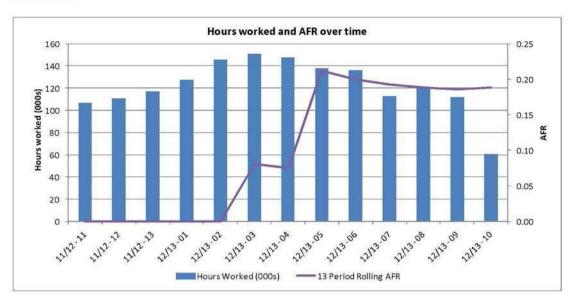
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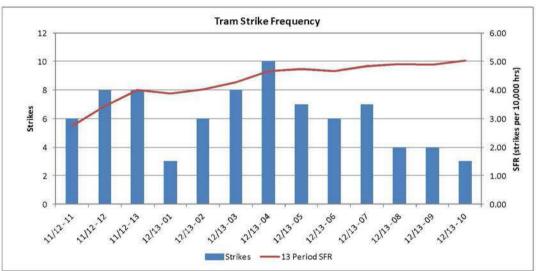


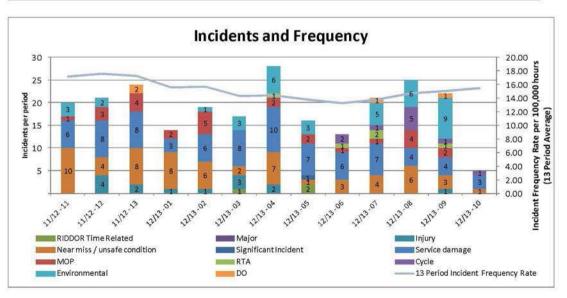


Project Report - Period 10

GRAPHS







Record: CR8235.3





Project Report - Period 10

APPENDIX A

There have been 4 incidents in total since the issue of the last DtTS. No incidents have been identified as serious / significant incidents.

AIIR number	Date of event	Location description	Initial description	Contractor involved	Classification	Significant
AIIR1845	12/12/12	St Andrew square	Wheel of road sweeper in comms chamber after running over timber board covering the chamber.	Crummock	Service damage	No
AIIR1847	14/12/12	Shandwick Place	Damage to a 2"dia gas. Pipe was encased in concrete. Scotland Gas Networks contacted and arrived on site within 1 hour	Lagan	Service damage	No
AIIR1848	19/12/12	ScotRail Depot	Fibre optic cable connection to the depot damaged at fence line in ScotRail depot. Location of damage identified and cable jointed 20/12/12.	Grahams	Service damage	No
AIIR1849	27/12/12	Abercrombie Place	Temporary lights were stuck on red. T&T requested that the batteries for the temporary lights are replaced as they are flat. Class One attended site to turn off lights to allow traffic to flow. Text received from Peter Widdowson at 0921 hrs 27/12/12 confirming lights were now in working order.	BBS	Near miss / unsafe condition	No

Record: CR8235.3

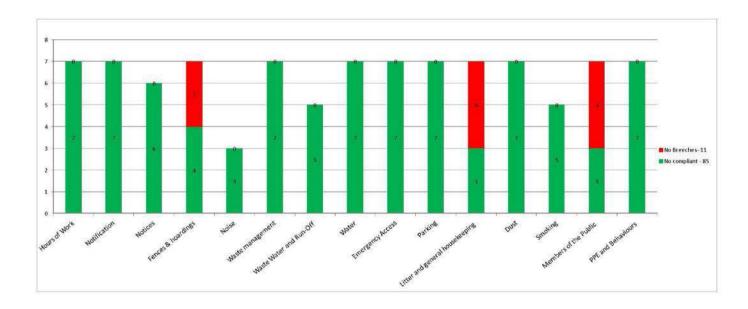


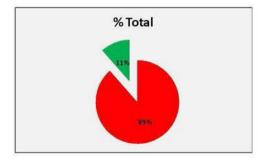


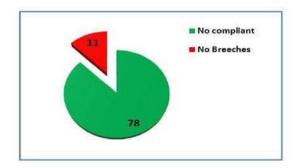
Project Report - Period 10

APPENDIX B - COCP INSPECTIONS

COCP Inspections / Issues Period 9 (previous period)







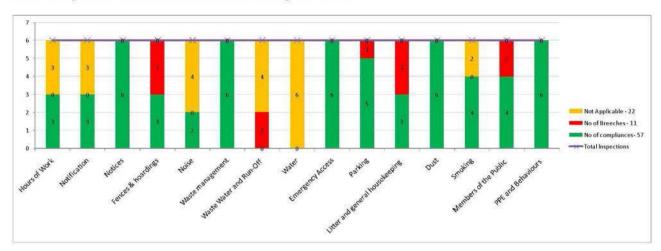


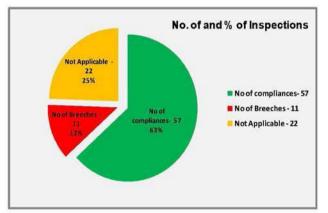


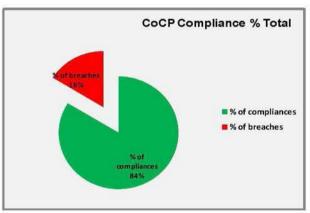
Project Report - Period 10

COCP Inspections / Issues Period 10

CoCP compliance was recorded at 84% During Period 10







O Q1. Hours of Work	Q9. Emergency Access
O Q2. Notification	Q10. Parking
O Q3. Notices	 Q11. Litter and general housekeeping
 Q4. Fencing and Hoarding 	o Q12. Dust
o Q5. Noise	O Q13. Smoking
O Q6. Waste Management	 Q14. Members of the Public
O Q7. Waste Water and Run-Off	O Q15. PPE and Behaviours
O Q8. Water	

Record: CR8235.3





Project Report - Period 10

Summary of issues identified during Turner & Townsend CoCP inspections and action taken

Question No	Subject	Location	Contractor	Action taken or required to be taken by contractor	Date to rectify or rectified
4	Fencing & Hoarding	St Andrew St	Crummock	Contractor has finalised the perimeter fencing including padlocked gates for the Christmas and New Year lockdown.	Finalised on 21.12.12 Inspection 14.12.12, 20.12.12
7	Waste Water and Run Off	St Andrew St	Crummock	This has now been overcome by the Christmas and New Year holiday lockdown.	Currently stopped 19.12.12 Inspection 14.12.12 20.12.12
10	Parking	Busgate – 5B	B&S/ Crummock	Contractor to brief not to park on footway. Parking of vehicles to be included in induction/re-induction.	January 2013
11	Litter & General House Keeping	St Andrew St	Crummock	The contractor rolled out a complete site programme to tidy the site for the Christmas and New Year holiday lockdown.	Finalised on 21.12.12 Inspection 14.12.12 20.12.12
11	Litter & General House Keeping	S504 Roseburn St	Graham	Bridgedeck requires general tidy up	Completed 13.12.12
14	МОР	St Andrew St	Crummock	Walkways (width) Contractor making efforts to rectify.	Finalised on 21.12.12
	s v				Inspection 14.12.12 20.12.12

Record: CR8235.3



		Prequired to be resolved before operations						
		Critical for construction between Airport and York						
		Not critical for construction or commencement of						
rement Document	Area of Interest	Items to be addressed in Document	Current Status	Current Activities Plan	Risks if not resolved	Action Owner	Action with	Target Date to Close Out
Party Co	nsents							
k Rati - Astert bon Agreement	Construction	This document governs the design approvals and germs to work consents along the Rativaly Comdor between Haymarket and Edinburgh Park	The existing APA period expired on 30 June 2011, the requested an extension as is permitted under the Agreement and NR have requested additional funding scottmaton, and have indicated they may wish to have the publications of this agreement. All present the revised APA has not been executed, but access to side is available to ES.	Revised documentation new insued to ARR for acceptance, No have now responded with comments and six-sixed five forecast. Biggred document new back with Network Rail.	Possible delay risk if NR refuse BB access to the site. To date the Corb actors VMPPs have not considerity been submitted to the required standard expected of NR, so the risk remains that NR may seek to revise the APA terms to reflect and Outpide Parky Role, rather than a Third Party Role. This affords 149 greater control over authrities on or near the calaxies network.	Alasdair 8 m	Network Rail	Jar-13
Son Wavleaves - rivit	Construction	Substation lease agreement between CEC and leaseholder of NR owned land	No physical blockers to the substation construction. Documents now under review by all parties.	CEC to enter into linuse drawdown with NR and then sublease to BP. Wording now agreed with SPO.	Potential BBS design change and delay to construction if not resolved.	Alasdair 8 m	Scottish Power	Jan-13
con Wayleavers -	Construction	Standard substation lease agreement	Final # C's issued by 865. CEC can now progress substation leave with SPD.	Draft lease agreement now with SPD.	Design delay risk if not received	Alseday Sm.	CEC	Jan-13
k Raf - Oridge nest	Operations	A greement to define responsibilities in relation to the Carrick Knowe and Edinburgh Park Bridges	This agreement is currently on hold, CII.C have concerns in regard to an untended indemnities which are implied within the current drafting. CII.C have considered progressing communication with ORR to seek ade in this repart. Needs to employe in the processing.	CEC to re-engage with NR, using the TürkiR Bridge Agreement terrotate so a starting position. His-VW have been appoint 03 provide advice.	dB cannot operate passenger services without an executed findge Agreement (Carrick Khowe and Edisturg Park)	h Alasdair Sim	CEC	Aim to move negotiations forwird durin
k Rat - Operating rent	Operations	An agreement setting out key lines of communication and responsibilities between the fram operations and the national fall network	This agreement is currectly on hold. Cfl.C have concerns in regard to an unlimited indemnstes which are implied within the current drafting. CEC have considered progressing communication with ORR to seek ad- in this repart. Needot re-engage in the process.	Action on CEC to re-engage with NPC	LIB carnot operate passenger services without an executed Operating Agreement	Aleedair Sm:	Network Fixe	Aim to move negotiations forward during
k Rail - EMC and reation approval			Testing and report to be issued on completion		LB cannot operate passenger services without an Network Rail Approval	Colin Kerr	88S Michael Wilken	Mid 2013
rgh Airport Las - EMC al	9.5		Teiting and report to be issued on completion		UB carroot operate passenger services without an EAL approval	Coan Kerr	BBS Michael Wilken	Mis 2013
rk Pail & First Scotrail ark Compensation ments	Compensation	Payment to indemnify FSR and NR against lose of car parking at Haymarket Station Car Park	Printin available budget allowances. No of parking spaces affected is agreed with NR and FSR:	The matter cannot be competely closed out until BSS complete the works and the timeline over which compensation applic can be determined. The programme is now 15 months overbue in this area.	No construction risk as this is a compensation matter.	Alacdar II m	CEC	Unknown at this point. Construction progra- agreed/completed.
rk Rail - Servitudes	Land	Various servitude arrangements to be entered into between CEC and NR. These are all agreed and set out in the Framework Agreement	9-83-0W appointed, work can get underway in registering these servitudes	HSJ-GW are ready to submit documents to NR - swalling Robert Little to confirm NR legal Advisor	HBJ-GW have forwarded servetude documents to NR's legal advisor	Atasdac Sim	Network Rail	Mis 2013
nsation - ML	Land	Compensation as a result of CPO of land	Negotiations underway between the former landowner and CEC.	CEC have inflated the CAAD process in West Edinburgh	No project risk as this is a compensation matter.	Aladdak Skm	CEC	Unknown - depends on claimant
building fixings	Construction	Modified building fixings agreements for 76 Pence St, 78 Princes St and House of Fraser.	All three agreements have been modified with BBS consent. Currectly with the relevant owners' advisors to final review and issue for signature.	Awating response from building owners, agreement immerent.	If not resolved, CEC will seek a Ehertif Court decision.			Jan-13
Extension	Conduction	Storage area in Leith Docks for rail – site currently occupied by Siemens	Lease has expired, and CEO seeking extension to end 2013, CEO legal and owner's agent exchanging draft	epal drafting in progress	Luttle risk as site is already, occupied, therefore lack rights in place.	Alasdair Sim	CEC	Close out by mid Jan 2013.
te Sharing Usence at . Edinburgh Cardia	Operations	This agreement is for a licence to permit the profallation of radio equipment on Edinburgh Cast (required by Siemans)	OEC Legal and the Licensor exchanging drating at present. No stowatoppers envisaged.	CEC Ligal discussing some drafting points with Bridge Systems.	Risk of delay to Siemens if not resolved.	Alasdair Swi	CEC	Close out by mid./an 2013.
n 21 Agreements - SA arkat		Scottish Water approval	Review been under take of all sewer crossing along the off direct section of the route 2 required.	Draft wording for Edicturgh gateway with Scotlish water, draft working for Haymarket with Network rail. Both nearing completion: System wide SW to provide a list for agreement.	Delay to formal approval from Scotlish water	Atasdair 8 m.	SWINE	Mid August 13
hnical Infe	ormatives	1			<u> </u>			
eignage location	Design	Location drawings to be provided	Comment 4936	Transvey Signage has now been agreed, with Clean copy sent to ICP for HBIFA approval, eformative closed Decmeber 201 ORRI approval awated. Commente received from ORRI, description required for each sign, informative can now be closed.	E nai agreement will not be optioned if not resolved	Robin Goodwin	ICP .	Ciosed
thing and Bonding	Design	Fur details of any earthing and bonding requirements that impact on CEO offrashucture need to be provided for review and approval	Comment 11244 to be cripped Comment 11500 to be cripped	Cesign with SDG, mock up of lemp column installation to be considered, attention should be given to Princes street interface in CBC have commented informative for EAS obsect. Letter required from CBC for core out Lighting serimet. To close the de- concern, the street lighting bollarids should be conhected early 2013. Informative to be closed, sectional issues to be reactive on title.	Construction delay risk if not resolved	Robin Grodwin	BBS Michael Wiken	Closed
ner Approv								
ation of Development	Construction	Letter to be issued to third party	Notices required for New Ingliston	Notice of completion to be provided to CEC planning, by CEC following section B completion.	None	Andy Comery	CEC bob MicCafferty	Apr-13
WE .	Operations	System wide	Document currently being draffed.	Bye laws to be agreed, and submitted to Council meeting in November 2012. Bye Laws agreed at CEC meeting now with M	eoperational running	Andy Conway	CEC boo McCafferty	Mar-13
gal Agreen	ents							
m Software Escrow ment	Curse 102 18	EntraCo must place the source code in escrow will	TO BE SIGNED WITHIN SQ DAYS OF TIE ACCEPTING THE NIFRACO SOFTWARE - Stemms are to cludy these posters	Sierrens to provide details of agreement by April 12. Draft due at the end of October 2012.		CEC, IntraCo and escrow provider.	Patrick Scully	Julia
	On the certification of the twenty seventh. Cettificate of Train Commissioning CAF must provide a reliability bond for 5% of the	the NCC Group of Manchester Technology (or		4th rider to be delivered to CEC before 20th November 2012, until date agreed at Marhall according to SBS programme rev 15.05.13, note to an utletion date shall be agreed. Bond New received until 15th May 2013.	THIS BOND SHOULD BE PROVIDED ON THE ISSUE OF THE TWENTY SEVENTH CERTIFICATE OF TRAIN COMMISSIONING	CEC, CAF and escrow provider	Alejandro Umiza	May-13
Reliability Bonc	Aggregate TramPrice (approx £2,789,881.65).	Clause 44.3 and part A of Schedule 18	necec			CEC, CAF and	CEC	Feb-13
ram Supplier	A collateral warranty to be granted by the Tram Supplier to Be, CEC, Transport Scotland, TEL and any other reasonable					BESCHOW BEDVIOLE		
neal Warranty	party at the request of the Client. Within 30 days of te accepting software provided to CAF under the TSA, CAF	Clause 44.5	CAF, BMCE(C, Transport Scotland, TEC, and any other parties receiving the collaboral warranty.	Contractual document, signed by CAF on may 2008.	STATUS OF THE COLLATERAL WARRANTIES TO BE CONFIRMED BY CECLTET.	CEC, CAF and escrow provider	Alejandro Urriza	JH#14
	must place the source code in encrow will the NGC Group of Manchester Technolog (or another escribe apent). The is required to enter into a standard escribe aprecised for the escribe services. All costs will be	Clause 51, 19.3 and Scheoule 8	CAF, NHCIPC and NCO	Politive feedback from Actia and Koope, Awarding allower from Skippis IF E Faiveley and oppraiso.	TO BE SIGNED WITHIN 30 DAYS OF TIE ACCEPTING SOFTWARE FROM CAF. SEE PREVIOUS NOTE ON THE SIGNE RELATIVE TO THE INFRAÇO CONTRACT.			
Scrow Agreement		CONTRACTOR				CEC, CAF and escrow provider.	CAF	Feb-13
	met by the retired the transmequereness (specification (see the Tram (imployer's Requirements) indicates that a Sub- Contractor Direct Agreement is required.			CAF awaits an answer to e-mail dated 11 June 2012 with the proposal given by Klede, in order to proceed with outstanding				1
	Bocification (see the Tram Employer's Bocification (see the Tram Employer's Requirements) indicates that a Sub- Cottractor Direct Agreement is required, the CAF multi obtain a Sub-Contract Diver in the event that any part of the TMA is assistance, nevaded or otherwise transferre	Clause 69, 8 and Schedule 18	Sub-Centractive, SerCEIC and CAF	CAF awaits an antwer to e-mail dated 11 June 2012 with the proposal given by Kiepe, in order to proceed with outstanding agreements direce. Signans, and IFE). Comments returned to CAF.	THE TRAM EMPLOYER'S REQUIREMENTS	CEO, CAF and escrow provider	CEC	Feb-13
to-Contractor Direct	Secretarion (see the Tram Employer's Requirements) indicates that a Sub-Contract Driver (Appendix 1) and the Contract (Appendix 1) and th	Clause 66.0 and Schedule 19 d Clause 66.1 and part 1 of Schedule 23.	Sub-Continuor, swice C and CAF	CVE awards an artised to A-mail dated 11 June 2012 with the indicate given by Yospe, in order to proceed with our studied gueenmost orders, Esgrana,and 161; Comments returned to Culf. Need application, to be stressed.	THE TRAM EMPLOYERS REQUIREMENTS: ONDONE DELPATION. DEPENDENT ON RELEVANT ADDITION THOSE OCCURRING. TRUCE TO NOT IN THE CONTEXT OF POTENTIAL PUTURE INVOLVEMENT OF THE OPERATOR.	escrow provider	CEC	Feb-13
ab-Contractor Direct	Interest the Train Property of the William State of the Train Intercept and Dependent of the State of the Sta	Clause 46.1 and part 1 of Schedule 23	PBA .	Held applicative, to be sharked	ONSONO DEJOATION. DEPENDENT ON RELEVANT ASSISTANTION OCCURRING. TISICECTO NOT BY THE CONTEXT OF POTENTIAL PUTURE INVOLVEMENT OF THE OPERATOR.	CEC, CAF and escrow provider	CEC	Feb-13
Scrow Agreement ub-Contractor Direct performance Bland years Maintainer or all Warracty scrow Agreement	Some distributions and the second sec		Site-Certificitier, SerCEC and CAF PBA CAF, SeCEC, Transport Scotland, TEL and any other parties receiving the collaboral warranty CAF, SeCEC, Transport Scotland, TEL and any other parties receiving the collaboral warranty.		ONSOING OBJOATION, DEPENDENT ON RELEVANT ASSIGNATION OCCURRING. TEXCECT O NOT	escrow provider	CEC CEC	



Appendix 3 – Cost Report

City of Edinburgh Council



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Reporting Period: 12-10 - Rev 0 - 05/01/2013

Section 1 - Project Summary

		Bud	lget Informati	ion		Committed				Forecast			Third Party 0	Contributions	Varia	ance	Actu	uals
		A	В	C=A+B	D	E	F = D + E	G	н	1	i	K=F+G+H+I+J	ı	M=K-L	N=M-C	0=M/C-1	P	Q
		Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Changes in Progress	Anticipated Change	Opportunities	Risk / Mitigated	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	COWD to Date	Outstanding Amount
	Edinburgh Tram Programme	500,154	0	500,154	479,660	23,700	503,360	5,579	4,069	0	3,571	516,579	-7,696	508,883	8,729	2%	455,269	48,09
1	Infraco - Off Street	360,060	5,910	365,970	362,501	5,910	368,411	6,314	430	0	0	375,155	-5,814	369,341	3,371	1%	336,223	32,18
2	Infraco - On Street	38,817	2,794	41,611	47,384	2,794	50,178	-770	323	0	0	49,731	-1,394	48,337	6,726	16%	27,966	22,21
3	Infraco - Other	3,218	0	3,218	3,218	0	3,218	0	0	0	0	3,218	0	3,218	0	0%	675	2,54
2.1	York Place Direct Works	0	0	0		1,015	1,015		325			1,340		1,340	1,340		935	8
4.1	Utilities (Post Mediation)	1,812	13,665	15,477	1,812	13,665	15,477	0	1,791	0	0	17,268	-188	17,080	1,603	10%	15,147	33
4.2	Legacy Utilities (Revised Tram Route)	0	1,411	1,411	0	1,411	1,411	0	0	0	0	1,411	0	1,411	0	0%	1,411	
4.3	Legacy Utilities (Leith Walk)	1,100	-1,100	0	1,100	-1,100	0	0	900	0	0	900	0	900	900		0	
5	Tram vehicles	62,400	5	62,405	63,645	5	63,650	35	300	0	0	63,985	-300	63,685	1,280	2%	72,912	-9,26
6	Project Management (refer to CEC Rep	ort)	0	0			0					0		0	0			
7	Preparing for Operations (refer to CEC I	Report)	0	0			0					0		0	0			
8	Specified Risk Allowance	32,747	-22,685	10,062	0	0	0	0			3,571	3,571		3,571	-6,491	-65%	0	

Comments

Report excludes Enabling work packages reported under T19 and utilities reported under T18

Contributions include amounts relevant to reported budgets only. Any further contributions are reported by CEC.

Includes changes issued to 15/9/12

Risk:

No allowance included for ex-contract payments

Actions

Ongoing risk mitigation of major risks.

Realisation of opportiunities associated with specification reductions (road surfacing) and time (York Place)

City of Edinburgh Council



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Infraco Cost Report Section 1 - Commercial Summary

		Bud	get Informati	ion		Committed				Forecast			- / Link (1981)	Party	Vari	ance	Acti	uals
		A	В	C = A + B	D	E	F = D + E	G	н	i	J	K=F+G+H +I+J	ī	M=K-L	N = M - C	O = M / C - 1	Р	Q
		Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	COWD to Date	Outstanding Amount
	Infraco Contract	402,095	8,704	410,799	413,103	8,704	421,807	5,544	753	0	C	428,104	-7,208	420,896	10,097	4.21%	364,864	56,943
	Off Steet	360,060	5,910	365,970	362,501	5,910	368,411	6,314	430	0	C	375,155	-5,814	369,341	3,371	2.51%	336,223	32,188
00	Preliminaries and Other Items	150,408	5,745	156,153	150,409	5,745	156,154	5,835	200	0		162,189	0	162,189	6,036	3.87%	131,797	24,357
01	Newhaven Road to Haymarket	85,368	-3,215	82,153	87,738	-3,215	84,523	120	0	0		84,643	-318	84,325	2,172	3.03%	87,490	-2,967
02	Haymarket Corridor	8,692	-10	8,682	8,692	-10	8,682	117	0	0		8,799	-13	8,786	104	1.35%	8,107	575
05	Roseburn Junction to Gogar	80,035	3,409	83,444	80,105	3,409	83,514	104	230	0		83,848	-4,383	79,465	-3,979	0.48%	74,393	9,121
06	Depot	19,979	260	20,239	19,979	260	20,239	83	0	0		20,322	0	20,322	83	0.41%	19,141	1,098
07	Gogar to Edinburgh Airport	15,578	-279	15,299	15,578	-279	15,299	55	0	0		15,354	-1,100	14,254	-1,045	0.36%	15,295	4
	On Street	38,817	2,794	41,611	47,384	2,794	50,178	-770	323	0	C	49,731	-1,394	48,337	6,726	19.51%	27,966	22,212
00	Preliminaries and Other Items	21,837	95	21,932	21,837	95	21,932	21	0	0		21,953	0	21,953	21	0.10%	11,249	10,683
01	Newhaven Road to Haymarket	16,980	2,699	19,679	25,547	2,699	28,246	-791	323	0		27,778	-1,394	26,384	6,705	41.16%	16,717	11,529
	Other	3,218	0	3,218	3,218	o	3,218	0	0	0	C	3,218	0	3,218	0	0.00%	675	2,543
00	Maintenance & Mobilisation	2,205	0	2,205	2,205	0	2,205	0	0	0		2,205	0	2,205	0	0.00%	675	1,530
00	Spare Parts	1,013	0	1,013	1,013	0	1,013	0	0	0		1,013	0	1,013	0	0.00%	0	1,013

Comments:

Summary sheet values in £k. All other sheet values in £.

Opportunities include for time saving based on current QSRA.

Excludes £3.2m phase 1b payment (refer to budget T19.C)

Risk

Refer to Risk register for risks identified against infraco programme All risk is held at programme level. This section of the cost report makes no allowance for risk.

Refer to the outputs of the QCRA/QSRA for further information on risk.

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City of Edinburgh Council



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Infraco Cost Report Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
501	Hawthornevale Cycle Link - Change the design to widen the footway alongside the south side of Lindsay Road	20,021	20,021	0		01	01
502	Amend the design of Ocean Drive to reinstate the footpath to the north of Ocean Drive	10,231	10,231	0		01	01
503	OLE temporary portals at depot access bridge to allow finalisation without Edinburgh Gateway	67,646	67,646	0	Edinburgh Gateway funding	05	01
504	Review of the banned right turn into Blenheim Place as part of the design for Section 1C2 roads	46,247	46,247	0		01	01
505	York Place Terminal Point - Production of a feasibility report, initial feasibility design for option ii), run time modelling etc	228,653	228,653	0		01	01
506	Design for providing a new cycleway from the Mound to Princes Street	9,437	9,437	0		01	01
506.1	Design for providing a new cycleway from the Mound to Princes Street	1,669	1,669	0		01	01
507	Provide a clarification report and completion of the St. Andrew's Square Public Realm design	134,947	133,075	1,871	Included within contributions	01	01
508	Obtain EAL approval for the highways design drawings at Eastfield Avenue tram crossing	10,025	10,025	0		07	01
509	Design of Cathedral Lane Substation	233,596	233,596	0		01	01
511	Storm Water Connection from Gogar Lodge to the landowners new septic tank	5,750	5,750	0		05	01
512	Re-design of Ocean Terminal Bypass Road	53,685	53,685	0		01	01
513	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	156,870	156,870	0		01	02
514	Utility Mapping	92,756	92,756		Time chargeable costs. L&M Surveys and Class One. Complete	01	02
516	Additional Water main requirement at Depot and Mini Test Track	51,282	51,282	0		06	01
517	Additional BT Ducts at Depot and Mini Test Track	2,996	2,996	0		06	01
520	Valve chamber access and alteration works to 800mm water main at the Depot	105,326	105,326	0		06	01
524	Airport to Gyle - NIL Design Finalisation (also includes Construction)	-40,559	-40,559	0		07	01
526	Airport to Gyle - Tram Delivery Temporary Works	6,878	6,878	0		07	01
529	Design Gogar Castle Access Road tram crossing and approaches	31,308	31,308	0		05	01

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Infraco Cost Report Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
530	Amend the design of the Depot Road turning head as per RDC191, Option 2	30,458	30,458	0		06	01
531	Edinburgh Gateway - Advance Temporary Works design	9,349	9,349	0		05	01
534	SP Insurance Ducts - Install Insurance ducts at various locations	5,637	5,637	0		07	01
536	System Wide - Tramstop Cabinets - reduction in 10 years maintenance liability	0	0	0	No saving to contract	01	01
538	Depot - Tramwash Continuous Mode - Requirement for additional hand lances washers	0	0	0	Change rejected - included within contract	06	01
539	System Wide - Delay in signing - impact on commencement and completion - costs incurred at front end of programme	1,397,409	1,397,409		Amount relates to costs incurred by BBS due to delay in contract signing for early mobilisation. T&T have requested further evidence of these costs. However, BBS have refused to provide any further information.	00	04
540	Section 7 - Plot 304 - Omit Landscaping works	-201,120	-201,120	0	rest consists properly was been taken to Articles Article	07	01
541	Princes Street - City Chamber - Annandale Street Communication Links. Usage of CEC available BT-Lines to avoid provision of direct FO link from Princes Street to City Chambers	180,000	180,000	5 80.3	Off and on street combined under Clause 80. Returned estimate £165,642.28. However, this excludes spares which need to be added	01	01
544	Extension to Edinburgh Park Office to accommodate CEC / Transport Scotland	159,900	159,900	0		00	01
550	Shandwick Place OLE & Landscape Design Revision	0	0	2000	Design costs to be grouped under tnc 562 (BBS PMC 045)	01	01
553	SDS to provide the services of Matt Fell until August 2012	145,000	145,000	0		00	02
555	Haymarket - OLE 196B design revision to avoid main sewer	0	0		Design costs to be grouped under tnc 562 (BBS PMC 045)	01	02
557	Haymarket 1 - OLE Base Relocations (Design mods)	0	0	100	Design costs to be grouped under tnc 562 (BBS PMC 045)	01	02
558	Site Wide - Provision of a CAD Technician	1,693	1,693	0	*	01	02
559	Detailed Design of York Place	56,438	56,438	0	tnc issued - awaiting BBS estimate	01	01
561	Omit all works at the Forth Ports area	-2,443,000	-2,443,000	0	Work deleted from scope.	01	01
562	On Street Generally - OLE Design Changes for On Street Section (PMC 045) - SIEMENS DESIGN WORKS	160,000	160,000	0	Includes original tNC 550, 555, 563	01	02

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Infraco Cost Report Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
563	On Street - Amend pile caps from square / rectangular to circular	0	0	0	Design costs to be grouped under the 562 (BBS PMC 045)	01	02
565	Advanced design works for Edinburgh Gateway Minimum Option	2,599	2,599	0		05	01
565.1	Advanced design works for Edinburgh Gateway Minimum Option	3,350	3,350	0		05	01
566	On Street Generally - Ducting Design Changes Due to Utilities Conflicts	60,000	60,000	0		00	02
567	On Street Generally - Drainage Design Changes Due to Utilities Conflicts	125,000	125,000	0		00	02
568	On Street Generally - Trackform Design Changes Due to Utilities Conflicts	30,000	30,000	0		00	02
569	Additional Running Costs associated with the extension to the Edinburgh Park offices	79,200	79,200	0		00	01
571	Hope Street Junction Design	22,061	22,061	0		01	01
572	Cathedral Lane Substation - Retaining Wall Design	34,459	34,459	0		01	01
574	Haymarket Station - Delete viaduct cladding	-5,571	-5,571	0		02	01
576	Depot - Reinstatement to 250mm Water main Remedial Works	36,788	36,788	0		07	01
577	Haymarket Viaduct - Deletion of Sub Station Retaining Wall and Plinth	-4,608	-4,608	0		02	01
578	SI Provisional Sum Allowance	-57,984	-57,984	0		01	02
580	Cancellation of trackwork materials York Place to Newhaven	-1,100,000	-1,100,000	0	Change resulting from value engineering exercise	01	02
581	Omit Siemens work to Tower Place and Victoria Dock bridges	-100,000	-100,000	0	Change resulting from value engineering exercise	01	02
582	Delete proposed cladding installation costs on Roseburn Viaduct Structures	-308,004	-308,004	0	Change resulting from value engineering exercise	05	01
585	Descope of Service Vehicle	-21,565	-21,565	0		00	01
586	St Andrew Square - tie in detail	15,228	15,228	0	Change resulting from value engineering exercise	01	01
587	Revise design for amendments to setts areas and specification	15,512	15,512	0	Subject to separate CEC budget	01	01
589	Descoping airport tramstop kiosk and canopy	-150,000	-150,000	0		07	01

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TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
591	Diversion of Scottish Power Cable at Haymarket Viaduct	21,789	21,789	0	NR contribution	05	01
593	Secondary Phase 1a - Cessation of Design Work North of York Place	0	0		Saving opportunity being investigated in relation to future ownership of design etc prior to finalising value.	01	01
594	Edinburgh Gateway slope option - design costs	0	0	0	Costs included in tNC 643	05	01
595	Haymarket Viaduct - Deletion of fitting out of Crew Relief Facility	-74,001	-74,001	0		05	01
597	Section 1D - Omit disconnection of Bus Tracker	-14,928	-14,928	0		01	01
601	Clarification on length of shelter to RBS tram stop (8m)	27,863	27,863	0		05	01
602	Omit purchase of poles for PIDs North of York Place	-23,740	-23,740	0		01	01
603	Bus Tracker Interface Specification	11,535	11,535	0	Cost based on option 2	01	01
607	Delete 110v sockets on On Street Tram Stops	-6,154	-6,154	0		01	01
608	Delete 110v sockets on Off Street Tram Stops	-36,851	-36,851	0		05	01
609	Traffic Management provision in section 1A	133,140	133,140	0		01	03
610	Edinburgh Gateway - Siemens Long Lead Items	0	0	0	Costs included in tNC 643	05	01
615	Haymarket Viaduct - design wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted	1,900	1,900	0		05	01
616	Haymarket Viaduct - construct wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted	10,798	10,798	0		05	01
617	Tram stops branding changes. Requirement for etched glass to be confirmed	0	0	0	Value TBC	05	01
618	Gogar Depot 1800 mm Diameter Manhole - TQ736	6,176	6,176	0		06	01
619	Omit Track Welding Equipment	-14,420	-14,420	0		06	01
620	Airport Tram Stop Design	17,784	17,784	0		05	01
621	Amend the dates of the HV meter installation at substations	12,507	12,507	0		05	01

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TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Chang Code
622	LV power for sub-station and Tramstop.	-1,000	-1,000	0	Power bills paid by CEC to be recovered from Infraco	05	01
623	Repair minor damage to Depot (Intercom, fence panel and broken slabs)	1,867	1,867	0	And Andread House of the Control of	07	01
624	Compressed Air Supply to Depot Gantry Road and workshop	5,576	5,576	0		07	01
627	Delete pedestrian guardrail in the area outside St John's Church (Design)	0	0	0	No costs related to tNC	01	01
632	Resolve Depot Building water ingression	0	0	0	Assumed to be BBS liability	06	01
636	Twin Crossing at Lochside Avenue	37,152	37,152	0	Includes abortive cost of work carried out to date. Full forecast £140k as assumed work will no longer be carried out.	05	01
640	Unimog Insurance	-1,000	-1,000	0		00	01
643	Edinburgh Gateway Construction	3,416,010	3,416,010		Construction costs; excludes fees and OLE Poles (refer to tNC 594 & 610). Excludes any contingency which is reported separately by Transport Scotland	05	01
647	Design work to support VE on carriageway reconstruction & kerb realignment	50,000	50,000	0	2.0.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	01	01
648	Cabinet Position For Street Lighting - design	10,000	10,000	0	Provision of as-built drawings	01	01
652	Maintenance of The Depot Workshop Equipment	49,633	49,633	0		06	01
653	Provision of IFC Drawings in DWG CAD format	4,924	4,924	0		01	01
655	Revise CCTV & PA coverage at Murrayfield tram stop	38,158	38,158	0		05	01
657	Drainage As Built Drawings - Princes Street	3,271	3,271	0		00	01
662	Eastfield Avenue Topographical Survey	2,587	2,587	0		07	01
663	Heras fencing at depot	6,424	6,424	0		06	01
664	Gogar Castle Access Road - Additional High Friction Surfacing	3,186	3,186	0	Requirements being investigated	07	01
666	Pedestrian gate next to the vehicle access gate at the ScotRail Depot.	4,906	4,906	0		05	01

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TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Chang Code
667	Call off service to respond to Network Rail TQs and interface issues	20,000	15,000	5,000		05	01
668	De-scoping of Infraco works in York Place to be undertaken direct by Crummock.	-1,015,156	-1,015,156	0		01	01
669	SGN Remedial Works - backfill at New Ingliston Land	16,064	16,064	0		07	03
670	SDS Response to Road Safety Audit for Princes St	1,611	1,611	0		01	01
671	ScotRail car park security fence	10,000	10,000	0	Contribution from ScotRail to be reviewed	05	01
672	Amend drainage drawings to incorporate changes introduced through redesign process	15,000	15,000	0	Not to be provided by Infraco	06	01
673	Cancel order for OLE poles required for Secondary Phase 1a	-41,789	-41,789	0		01	01
679	Works to prevent water stagnation at Depot (L8 Compliance)	0	0	0		06	01
683	Carry out trial holes to locate 125mm diameter pipe at Depot	5,000	5,000	0		06	01
684	Repair works to utility trough cover slabs damaged by tram deliveries	938	938		Potential opportunity to recharge to CAF contract	06	01
685	Provide technical information on Lindsay Road works	7,681	7,090	591		01	01
689	CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Ducting and Chambers to avoid utilities	50,000	50,000	0		01	01
690	Remedial work to repair West Shunt line at Haymarket Depot	76,413	76,413	0		05	01
691	Cathedral Lane re-design	35,000	35,000	0		01	01
694	Traffic Light de-scope to West St Andrew St	-189,460	-189,460	0		01	01
702	Eastfield Avenue Pedestrian Crossing	24,562	24,562	0		07	01
703	Repair Switch Rail at Depot	831	831	0		06	01
705	Re-design works due to NWR fence encroaching into the LoD	13,669	13,669	0		05	01
708	RailCom Software Interface	0	0	0	No cost impact	00	01

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TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
709	ScotRail Car park landscaping	0	0	0	No cost impact	05	01
717	Cost Engineering in respect of the Programme (22 week saving)	3,768,223	3,229,905		Instructed by CEC. Refer to T&T letter dated 31/10/2012	00	01
Total		5,910,672	5,364,892	545,780			1

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C Ref No	Description	Agreed Amount	Previous Period	Change from Previous Period	Notes	Section Code
001	Independent Certifiers Schedule Part 45 Period End Change Order to 15/10/2011	8,593	8,593	0	Includes TNC 513, TNC 543, TNC 521	01
002	Independent Certifiers Schedule Part 45 Period End Change Order to 12/11/2011	102,135	102,135	0	Includes TNC513, TNC 521, TNC 528, TNC 535, TNC 543, TNC 547, TNC 548, TNC 549	01
003	Independent Certifiers Schedule Part 45 Period End Change Order to 10/12/2011	357,140	357,140	0	Includes TNC535, TNC543, TNC548, TNC549, TNC551	01
004	Independent Certifiers Schedule Part 45 Period End Change Order to 6/1/2012	158,870	158,870	0	Includes TNC535, TNC543	01
005	Independent Certifiers Schedule Part 45 Period End Change Order to 4/2/2012	332,812	332,812	0	Includes TNC535, 543, 551, 554, 596, 598	01
006	Independent Certifiers Schedule Part 45 Period End Change Order to 3/3/2012	244,645	244,645	0	Includes TNC543, 547, 554, 600, 604, 606	01
007	Independent Certifiers Schedule Part 45 Period End Change Order to 31/3/2012	209,363	209,363	0	Includes TNC 543, 547, 554, 600, 604, 606, 629, 630	01
008	Independent Certifiers Schedule Part 45 Period End Change Order to 28/4/2012	235,258	235,258	0	Includes TNC 543, 554, 590, 596, 600, 604, 606, 629, 630, 631	01
009	Independent Certifiers Schedule Part 45 Period End Change Order to 26/5/2012	-33,988	-33,988	0	Includes TNC 543, 547, 549, 554, 570, 584, 590, 596, 600, 604, 606, 629, 630, 635, 645	01
010	Independent Certifiers Schedule Part 45 Period End Change Order to 23/6/2012	286,757	286,757		Includes TNC 547, 549, 554, 596, 599, 600, 606, 613, 629, 630, 635, 637, 639, 645	01
011	Independent Certifiers Schedule Part 45 Period End Change Order to 21/7/2012	169,141	169,141	0	Includes TNC 543, 547, 554, 583, 600, 606, 629, 630, 635, 639, 645	01
012	Independent Certifiers Schedule Part 45 Period End Change Order to 18/8/2012	129,875	129,875	0	Includes TNC 547, 554, 600, 606, 639, 645, 698	01
013	Independent Certifiers Schedule Part 45 Period End Change Order to 15/9/2012	286,456	286,456	0	Includes tNC 554, 584, 596, 599, 600, 606, 639, 641, 645, 693	01
014	Independent Certifiers Schedule Part 45 Period End Change Order to 13/10/2012	111,120	111,120	0	Includes tNC 543, 554, 584, 596, 599, 600, 604, 606, 639, 641, 681, 693	01
015	Independent Certifiers Schedule Part 45 Period End Change Order to 10/11/2012	195,887	0	195,887	Includes tNC 543, 547, 554, 564, 583, 584, 599, 600, 606, 637, 639, 641, 665, 678, 680, 682, 687, 693	01
		0				
		0				
Total		2,794,063	2,598,176	195,887		17

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Infraco Cost Report Section 3A - Change in Progress - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
525	Airport to Gyle - Site Access for Remedial Works	0	0	977	all costs associated with this change allocated to TNC 576	07	01
527	Ingliston - Reimbursement of Costs paid directly to SGN for the diversion of approximately 120m of 10" steel IP gas main to accommodate the new Edinburgh Tram at Ingliston	0	0		Saving from Infraco, not included during the period as cost not shown in utility budget	07	01
539.1	System Wide - Delay in signing - impact on commencement and completion - prolongation costs at end of programme	3,143,752	3,143,752		Amount relates to delay at end of Rev 3c programme.	00	04
556	Track Work Materials York Place to Newhaven - Price Fixing for Rheda City C and D	0	0	0	Included in VE register	01	01
573	Roseburn Delta - Non DDA Compliant Footpath	0	0	0	Item mitigated resulting in zero cost.	05	01
575	Haymarket Station - Take Down Viaduct Staircase and Parapet. TNC now withdrawn - Network Rail carrying out work	0	0	0	Work to be carried out by Network Rail	02	01
592	Haymarket Yards - Realign kerbs at Car Park Entrance	0	0	0	Currently on hold pending A. Sim review.	05	01
605	Depot - Sub-Station Switching	80,000	80,000		Includes allowance up to Section B completion date (8/3/13)	06	03
625	Engineering attendance on site at Cathedral Lane.	0	0	0	All costs captured against tNC 566	01	01
626	Advanced procurement of Edinburgh Gateway Materials and Equipment.	0	0	0	Costs included in tNC 643	05	01
628	Prepare MUDFA As Built drawings	100,000	100,000	0	Requirements to be confirmed	01	01
649	Princes Street Blister - Design Works	0	0	0	No cost impact	01	01
651	Defer Off Street Tramstop Shelter Installation and Fit-out	50,000	50,000	0		05	01
661	Blank off signage to Depot	10,000	10,000	0	On hold - may not be required	05	01
674	Topographical survey at Eastfield avenue - DESIGN	0	2,587	-2,587		07	01
675	Remove concrete around the water meter at the ScotRail Depot.	12,507	12,507	0		05	01
676	Design associated with work to Lord Bodo's Bar	0	0		BBS confirmed that the design work associated with this has been incorporated into PMC46 (tNC566). (25.1.201/SN/9826)	01	01
695	Tanker Access Edinburgh Airport	2,500	2,500	0		07	01
696	SGN as Builts for New Ingliston Limited	3,000	3,000	0		07	01

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TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
701	Reinstatement works at the Airport	20,000	20,000	0		07	01
704	Redesign of St Andrew Square - East	15,000	15,000	0		01	01
710	Gogar Depot - Repair areas of damaged flooring	3,000	3,000	0		06	01
711	Delete fence at Murrayfield tramstop and installation of fence at Royal Mail and ScotRail car park.	0	0	0	nil cost impact forecast - to be agreed with BBS	05	01
712	New fence and ramp at Murrayfield Wanderers FC	34,762	34,762	0		05	01
713	Haymarket - construction works outwith LOD	117,347	110,000	7,347		02	01
714	Edinburgh Park Central - Amend design to utilise CEC control panel	10,000	10,000	0		05	01
715	Amend cladding on Edinburgh Park Viaduct North abutment	0	0	0	nil cost impact	05	01
717.1	Cost Engineering in respect of the Programme (22 week saving)	2,691,588	3,229,905		Instructed by CEC. Refer to T&T letter dated 31/10/2012	00	01
719	Clarification of requirements for installation of fare collection equipment	0	0	0		05	01
720	Resolution of clash between security gate and trash compactor gate - ScotRail Depot	2,000	2,000	0		05	01
721	Installation of section isolators on the MTT.	29,825	0	29,825		07	01
723	Princes Street road safety audit for release of full Princes St plug	5,000	5,000	0		01	01
724	Murrayfield SW pipe - provide design calculations	0	0	0		05	01
725	Provision of DWG drainage drawings for handover to Scottish Water	1,000	1,000	0		05	01
726	Remove Murrayfield Thistle	-10,000	-10,000	0		05	01
727	Remove maintenance staircase to Roseburn Viaduct	-6,000	-6,000	0		05	01
731	Murrayfield SW pipe - provide CAD drawing to allow McNicolas to mark up the position on the sewer	0	0	0		05	01
732	Roseburn Street road build up - descope	0	0	0		05	01
Total		6,315,280	6,819,013	-503,733			

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	TNC No.	Description	The state of the s	vious Change from Previous Period	Notes	Section Code	Change Code
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Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
513.1	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	0	17,210	17,210	17,210	0		01	02
521	Haymarket - Temporary Accommodation	0	1,543	1,543	1,543	0		01	02
522	Haymarket 1 - Road Reconstruction	0	0	0	0	0	Included in VE register	01	02
523	Haymarket 1 - Additional CBR / Plate Testing	0	0	0	0	0	Included within on street priority works (contract milestones)	01	02
528	Haymarket 1 - Slit trench excavation to validate utilities	0	6,565	6,565	6,565	0	Included within on street priority works (contract milestones)	01	02
532	Princes Street - Temporary traffic management design - WITHDRAWN	0	0	0	0	0	No costs	01	02
533	Princes Street - 500mm Water Main Diversion	0	0	0	0	0	Costs contained within 535	01	02
535	Princes Street - 500mm Water Main Diversion - rev 3 dwg	0	252,986	252,986	252,986	0		01	02
537	Haymarket 1 - Additional visit of Tar planer to facilitate slewing of BT ducts - WITHDRAWN	0	0	0	0	0	Withdrawn	01	02
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	685	271,386	272,070	271,659	412	Only covers section H1. H2 to YP included in item 7 of Anticipated Change.	01	02
545	Site Wide - Power to bus trackers affecting the ability to remove site clearance items	0	0	0	0	0	McNicholas to remove. Contra charge BBS; allowance included for BBS attendance	00	02
546	Increased number of drainage boxes including installation	21,482	0	21,482	21,482	0		00	02
547	Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works	0	12,022	12,022	26,015	-13,993		00	02
548	Haymarket H1 - BT Fibre Optic Service requires diverting	0	83,053	83,053	83,053	0		00	02
549	Princes Street - Amend the design of the St. Johns Church OLE bases	0	32,642	32,642	32,642	0		01	02
551	Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills	0	203,511	203,511	203,511	0		01	02
552	Princes Street - BT diversion @ junction of Princes Street and South St. David Street	0	0	0	0	0	Costs included within TNC 535	01	02
554	St Andrew Square & Shandwick Place - Traffic Management Requirements	14,383	259,502	273,885	266,109	7,776	Refer to Revised issue of TNC	01	02
560	St. Andrew Square - Omit work North South & West St Andrew Square and St David Street	-2,050,000	0	-2,050,000	-900,000	-1,150,000	Includes all descoped works	01	02

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Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
564	Worksite Modelling - (TM)	0	6,023	6,023	6,023	0		01	03
570	Omit the Removal of Trees in Shandwick Place	-9,066	3,299	-5,767	-5,767	0		01	02
579	Removal of embargo and revised traffic management	0	0	0	0	0	Change resulting from value engineering exercise	01	02
583	Ordering setts for on street works	-70,588	50,588	-20,000	-20,000	0	Saving based on spreadsheet issued to CEC (GE to AC 22/05/2012). Final value still to be agreed with BBS	01	02
584	Road Reconstruction specification	-418,161	78,161	-340,000	0	-340,000	Change resulting from value engineering exercise	01	02
588	Stafford St Return of Parking Spaces	0	0	0	0	0		01	02
590	New cycleway from The Mound into Princes Street	0	30,375	30,375	30,375	0		01	02
596	Section 1D - Costs associated with amended drainage design	24,767	-6,644	18,123	-6,644	24,767		01	02
598	Section 1D - Incorporate geotextile liner into Clifton Terrace void in accordance with requirements from Archaeologist	0	1,760	1,760	1,760	0		01	02
599	Floating track slab	249,361	250,639	500,000	500,000	0	Bilfinger have agreed to deduct risk allowance and add actual scope only. Final detailed scope and price agreed with Siemens	01	01
600	Shandwick place - OLE bases affecting utilities (Piling)	0	338,509	338,509	338,509	0		01	02
604	St Andrew Sq - OLE bases affecting utilities (Piling)	0	43,429	43,429	43,429	0		01	02
606	York Place - Waverley Bridge - Works Delayed and disrupted as a result of works carried out by Third parties	122,585	216,110	338,695	257,401	81,294		01	02
611	Excavation of Track Slab to be carried out by McNicholas	-100,000	0	-100,000	0	-100,000	Refer to Anticipated change section for costs	01	01
612	Tram stops branding changes. Requirement for etched glass to be confirmed (cost excluded)	0	0	0	0	0	Value TBC	00	01
613	Temporary Bus Station at St Andrew Square/Waterloo Place - design	40,293	8,885	49,178	49,178	0		01	01
614	Rothesay Place Traffic Management Amendment	10,000	0	10,000	10,000	0		01	01
629	Utilities affecting Track Excavation at Shandwick Place (S1)	5,915	35,417	41,331	35,417	5,915		01	02
630	Utilities affecting Track Excavation at Shandwick Place (S2)	0	26,867	26,867	26,867	0		01	02

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Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
631	Third parties affecting progress at Shandwick Place (S2)	0	7,161	7,161	7,161	0		01	02
633	Ponding on Princes St at junctions of Frederick St/Castle St	0	0	0	0	0	Costs included in OSWE - allocated to other tNCs	01	01
634	Descope duct installation at Cathedral Lane	0	0	0	0	0	Part of York Place descope	01	01
635	Amend on street drainage scope	0	9,044	9,044	9,044	0		01	02
637	St Andrew Square Pedestrian Crossing	0	5,213	5,213	5,213	0		01	01
638	Remove pedestrian guardrail outside St John's Church	5,000	0	5,000	5,000	0		01	01
639	York Place - Traffic Management Design	58,654	167,084	225,738	225,737	0		01	01
641	Cathedral Lane substation - scope change to suit Henderson Global requirements. Excludes demolition.	621,588	3,413	625,000	625,000	0	This allowance is for the extra over cost included in the contract for construction of the new tram substation. It includes allowances for the revised substation and associated retaining wall.	01	01
642	York Place temporary Tram Stop	944,000	0	944,000	944,000		Excludes design work (see tNC 505) and sheet piling work to strengthen basement (included in risk allowance).	01	01
644	Finials for On Street Poles	0	22,880	22,880	22,880	0		01	01
645	Princes Street Outstanding Works	0	238,136	238,136	238,136	0		01	01
646	Cabinet Position For Street Lighting	20,000	0	20,000	20,000	0	Relates to locations only - assume no additional work	01	01
650	Princes Street Blister	0	0	0	0	0	Costs covered elsewhere in OSWE	01	01
654	De-scope coloured high friction surfacing at Princes / Sth St David Street Jctn	0	0	0	0	0	Savings contained in tNC 560	01	01
656	Defer On Street Tramstop Shelter Installation and Fit-out	10,000	0	10,000	10,000	0		01	01
658	Clarification of scope to Shandwick Place Wall	0	0	0	0	0	Work to be descoped from BBS. No adjustment as work will be carried out by others.	01	01
659	Road signage at Junction of Manor Place / Melville Street	2,000	0	2,000	2,000	0		01	01
660	Princes Street Traffic Management	10,000	0	10,000	10,000	0		01	01

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Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
665	Removal of Princes Street "plug"	8,227	1,612	9,840	6,612	3,227	Current requirements to be established	01	02
677	Install 20mph roundels on Lansdowne Crescent	1,500	0	1,500	1,500	0		01	01
678	Temporary traffic management design at York Place to keep bus station access open	3,669	10,515	14,185	10,515	3,669		01	01
680	Coates Crescent - Bus running single lane	8,105	1,895	10,000	10,000	0	Feasibility study	01	01
681	Hoarding design for York Place	0	0	0	0	0		01	01
682	Descope work associated with street lighting, road signage & traffic signals	-500,000	3,213	-496,787	-496,787	0	Previously included in anticipated change section	01	01
686	Alter kerbs next to CEC Connection Manhole	1,000	0	1,000	1,000	0	Parameter Manager	01	01
687	Relaxation of specification Appendix 11/1 to allow new in lieu of recovered whin kerbs	44,062	16,642	60,705	60,705	0		01	01
688	Descope footways outside Atholl & Coates Crescent	0	0	0	0	0	Included in forecast for road reconstruction saving	01	01
692	Installation of additional traffic management measures around St. James Centre car park	15,000	0	15,000	15,000	0		01	01
693	Footway and kerbing reinstatement in Shandwick Place	3,081	21,799	24,880	22,016	2,864		01	01
697	Remedials to Clifton Terrace kerb and footway	10,000	0	10,000	10,000	0		01	01
698	Removal of Contaminated Material in SP4	0	61,619	61,619	61,619	0		01	01
699	Pedestrian walkway from Haymarket Station	5,000	0	5,000	5,000	0		01	01
700	Hope Street Junction Works	30,000	0	30,000	30,000	0		01	01
707	Traffic Management adjacent Apple store (Princes St)	10,000	0	10,000	10,000	0		01	01
716	On Street Building Fixings	0	0	0	0	0	Schedule E Exclusion form the contract	01	02
718	De-Scope High Friction Surfacing on Waverley Bridge	-5,654	0	-5,654	-5,654	0		01	01
722	De-scope bus shelters, bus trackers and associated power supplies	0	0	0	0	0		01	01
728	Pedestrian management requirements over Christmas shutdown	5,000	0	5,000	0	5,000		01	01

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Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	In Progress	Certified	Total Forecast	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
729	Princes St/South St Andrew St - Traffic Light Alterations	40,000	0	40,000	0	40,000		01	01
730	De-scope tram duct crossing at Haymarket	-5,000	0	-5,000	0	-5,000		01	01
733	Palmerston Place/West Maitland St/Torphichen Pl - Tactile Paving	0	0	0	0	0		01	01
734	West Maitland Street / Manor Place traffic signals	4,000	0	4,000	0	4,000		01	01
735	Additional walls required at Queensferry Street/Hope St Junction	40,000	0	40,000	0	40,000		01	01
Total		-769,113	2,794,063	2,024,950	3,415,019	-1,390,069			

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Infraco Cost Report Section 4 - Anticipated Change

Ref No	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
4	Pricing Assumptions - 6.4.2.6 Dublin Street	70,000	70,000	0	Excludes piling if required. Includes allowance for works to adjacent properties.	01	02
6	Track Lowering - bridging trackform over utilities in St Andrew Square	150,000	150,000	0	Requirement for 30m section in St Andrews Square. Costs included in OSW Estimate	01	02
14	Roseburn Delta - non DDA footpath	30,000	30,000	0	No design required. Temporary footpath alignment to be agreed on site. Potential modifications to surface water drainage resulting from revised earthworks and Scottish Water approvals.	05	01
24	Remove drainage from Infraco scope	-80,000	-80,000	0	Section 1D now included in tNC 68. Remaining allowance for section 1C to be finalised	01	01
25	Remove excavation of trackbox from Infraco's contract	0	-200,000	200,000	Refer to tNC 611 for costs associated with this change	01	01
27	Amend road reconstruction depth from Contract Requirements	0	-700,000	700,000	Refer to tNC 584 for costs associated with this item	01	01
28	Opportunity to reduce cost associated with the temporary tram stop at York Place	-150,000	-150,000	0	Design optimisation - still to be realised	01	01
30	Schedule Part E, Item 8. Trackside Signage	37,320	37,320	0	Includes allowance for additional signage requirements identified during the testing and commissioning	01	01
32	Schedule Part E, Item 11. Unsuitable building fixings Section 1A	118,258	118,258	0	Initial verbal quote received from Siemens indicating that cost will be within this total	01	01
33	Schedule Part E, Item 12. SDS Lighting Design update impacts OLE combined poles	62,200	62,200	0	Current requirements to be established	01	01
41	Additional SDS Preliminaries (25.65%)	200,000	200,000	0	Final total to be reviewed, based on agreed base values.	00	01
42	Re ballast shunt line	75,000	75,000	0		05	01
43	Road level modifications in St Andrew Square resulting from comms ducts	0	30,000	-30,000	Ducts now lowered. Costs incurred in McNicholas contract	01	01
45	TVM Installation - Off Street	125,000	125,000	0	Includes allowance for additional TVM's from contract requirements, relocating power and comms supplies as required to accommodate design and provision of bases.	05	01

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Infraco Cost Report Section 4 - Anticipated Change

Ref No	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
46	TVM Installation - On Street	30,000	30,000		Includes allowance for additional TVM's from contract requirements, relocating power and comms supplies as required to accommodate design and provision of bases.	01	01
47	Isolation of mini test track from section 7 to allow tram commissioning	0	50,000	-50,000	Now included in tNC 721	07	01
48	Additional track drainage boxes in St Andrew Square as per BS PMC 231	10,000	10,000	0	Notified on BBS letter ref 060288 dated 13/11/12	01	02
49	Rescoping of work included in York Place Crummock contract	75,000	75,000		This is likely to include excavation of road outside of area excavated by Crummock and any fill required to make up levels not carried out as part of the Crummock contract	01	01
50	Rework Waverley Bridge Junction for pedestrian safety	0	40,000	-40,000	Now included in tNC 729	01	01
Total		752,778	-27,222	780,000			

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Infraco Cost Report Section 5 - Opportunities

Ref No	Description	Approved Changes	Changes in Progress	Anticipated Changes	Contribution s	Secured	To be secured	Total Opportunity	Value per CS report Jan 2012	Notes
01	Remove embargoes and revised TM	O	0	0		0		0		Subject to completion of sections in advance of contract dates. Initial opportunity based on 22 week time saving assumed in the Rev 4C programme. Current master programme indicates 4 week saving as a result of York Place
02	Edinburgh Gateway	0	0	0	-3,416,010	-3,416,010	0	-3,416,010	0	Awaiting instruction from Transport Scotland
03	Setts (separate CEC budget)	0	-20,000	0	-788,600	-808,600	0	-808,600	-1,000,000	Funded by separate CEC budget (added to contributions register
04	De-scope public realm at St Andrew Sq	0	-2,050,000	0	0	-2,050,000	0	-2,050,000	-700,000	Instructed
05	Contributions 3rd Party Agreements	0	0	0	-3,002,533	-3,002,533	0	-3,002,533	-2,500,000	Refer to contributions register
06	De-scope works at Forth Ports	-2,443,000	0	0	0	-2,443,000	0	-2,443,000	-2,450,000	Instructed
07	Omit Airport Tram Kiosk and Canopy	-150,000	0	0	0	-150,000	0	-150,000	-150,000	Approved, replacement materials t.b.c
08	Temporary tram stop at York Place	0	0	-150,000	0	-150,000		-150,000	-150,000	Design optimisation
09	Redeployment of Trams	0	0	0	0	0	0	0	-5,000,000	Included in CEC budget code
10	Cancel track York Place to Newhaven	-1,100,000	0	0	0	-1,100,000	0	-1,100,000	-1,100,000	Instructed
11	Omit Siemens works at Tower Place	-100,000	0	0	0	-100,000	0	-100,000	-100,000	Instructed
12	Turner & Townsend / CEC resources	0	0	0	0	0	0	0	0	Ongoing
13	Shared recovery vehicle	0	0	0	0	0	0	0	0	Not taken forward
14	Road re-construction depth	0	0	0	0	0	0	0	-700,000	Principles instructed, saving subject to site conditions
15	Design freeze north of York Place	0	0	0	0	0	0	0	-250,000	Infraco design costs expended
16	Reduced requirement for storage	0	0	0	0	0	0	0	-1,000,000	Included in CEC budget code
17	Lay off TM at Forth Ports/Leith Walk	0	0	0	0	0	0	0	-180,000	TM not included in Infraco budget provision
18	Roseburn Viaduct Cladding	-308,004	0	0	0	-308,004	0	-308,004	-300,000	Instructed

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Infraco Cost Report Section 5 - Opportunities

Ref No	Description	Approved Changes	Changes in Progress	Anticipated Changes	Contribution s	Secured	To be secured	Total Opportunity	Value per CS report Jan 2012	Notes
19	Delete Crew Relief Facility	-74,001	0	0	0	-74,001		-74,001		Instructed
Total		-4,175,005	-2,070,000	-150,000	-7,207,143	-13,602,148	0	-13,602,148	-22,040,000	

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Infraco Cost Report Section 6 - Credits & Contributions

Ref No	Description	Included in Contract Sum	Approved Changes	Changes in Progress	Anticipated Changes	Total Forecast	Previous Period	Change from Previous	Contributio n Received	Notes	Section Code	Change Code
01	Edinburgh Gateway Feasibility	861,943	82,944	0		944,887	940,000	4,887	528,000	£1.2m in total. Remainder of the costs included in CEC sections of the project budget.	05	01
02	New Ingliston Future Proof measures	540,000	0	0		540,000	540,000	0		Construction works element of overall settlement with NIL. Remaining amount contained in Land budget	07	01
03	Henderson Global - Cathedral Lane substation	-44,596	237,008	621,588	-344,000	470,000	470,000	0		Full extent of agreement with Henderson Global to be established. Allowance assumes all design costs and proportion of construction costs associated with future substation will be borne by Henderson Global. Cost of £470k has been submitted to Henderson Global	01	01
04	RBS Tramstop	560,000	0	0		560,000	560,000	0		Agreement reaced with RBS 11/06/2012	07	01
05	St Andrew Square Public Realm design		134,947	0		134,947	133,075	1,871	133,000	As per agreed change value. Assumed to be recovered from separate budget	01	01
06	Forth Ports		0	0		0	0	0		Forth Ports work removed from scope - no further contribution from Forth Ports assumed	01	01
07	CEC Miscellaneous. Mainly George Street CEC costs (£298k)	318,213	0	0		318,213	318,213	0	318,213	CEC finance have confirmed that a credit has been received in the amount shown. The extent of the workscope associated with this credit is not clear.	01	01
08	Network Rail - Haymarket station refurbishment	0	12,698	0		12,698	12,698	0		Majority of this work now being carried out by Network Rail. Remaining allowance for wall to crew relief facilities	02	01
09	Contribution from CEC for public realm work (granite setts) at St Andrews Square	788,600	0	0		788,600	788,600	0		Setts funded by CEC. Saving based on spreadsheet issued to CEC (MM to AC 20/11/12).	01	01
10	Network Rail - Scottish Power Cable diversion - Haymarket Station (TNC 591)		21,789	0		21,789	21,789	0			05	01
11	Edinburgh Gateway Construction		3,416,010	0		3,416,010	3,416,010	0		Cost based on agreed TCO. No contingency included (TS carrying their own contingency)	05	01
Total		3,024,160	3,905,396	621,588	-344,000	7,207,143	7,200,385	6,758	979,213		The state of the s	

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Infraco Cost Report Section 7 - Change Summary

Change Code	Description	Approved Change	Change in Progress	Anticipated Change	Contributions	Total
01	Scope Change	5,392,152	4,672,187	522,778		10,587,117
02	PAVs (Utilities, etc)	1,489,441	-2,349,770	230,000		-630,329
03	Miscellaneous Client Risk Items	155,228	80,000	0		235,228
04	Time Delay	1,397,409	3,143,752	0		4,541,161
05	Project Contributions	0	О	0	-7,207,143	-7,207,143
Total		8,434,230	5,546,169	752,778	-7,207,143	7,526,034

Notes:

Some CE's have costs which relate to more than one change code. In such instances they have been allocated to the predominant reason.

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Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	0		0	412	412
547	Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works	0		0	-13,993	-13,993
554	St Andrew Square & Shandwick Place - Traffic Management Requirements	0		0	7,776	7,776
560	St. Andrew Square - Omit work North South & West St Andrew Square and St David Street	0		0	-1,150,000	-1,150,000
584	Road Reconstruction specification	0		0	-340,000	-340,000
596	Section 1D - Costs associated with amended drainage design	0		0	24,767	24,767
606	York Place - Waverley Bridge - Works Delayed and disrupted as a result of works carried out by Third parties	0		0	81,294	81,294
611	Excavation of Track Slab to be carried out by McNicholas	0		0	-100,000	-100,000
629	Utilities affecting Track Excavation at Shandwick Place (S1)	0		0	5,915	5,91
665	Removal of Princes Street "plug"	0		0	3,227	3,227
667	Call off service to respond to Network Rail TQs and interface issues	5,000		0	0	5,000
674	Topographical survey at Eastfield avenue - DESIGN	0		-2,587	0	-2,587
678	Temporary traffic management design at York Place to keep bus station access open	0		0	3,669	3,669
685	Provide technical information on Lindsay Road works	591		0	0	59:
693	Footway and kerbing reinstatement in Shandwick Place	0		0	2,864	2,864

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Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
713	Haymarket - construction works outwith LOD	0		7,347	0	7,34
720	Resolution of clash between security gate and trash compactor gate - ScotRail Depot	0		0	0	ä
727	Remove maintenance staircase to Roseburn Viaduct	0		0	0	8
728	Pedestrian management requirements over Christmas shutdown	0		0	5,000	5,00
729	Princes St/South St Andrew St - Traffic Light Alterations	0		0	40,000	40,00
733	Palmerston Place/West Maitland St/Torphichen Pl - Tactile Paving	0		0	0	1
734	West Maitland Street / Manor Place traffic signals	0		0	4,000	4,00
Total		5,591	0	4,760	-1,425,069	-1,414,71
nticipated	l Change			-50,000	830,000	780,00
pportunit	ies			0	0	
hange to A	Anticipated Final Cost	5,591	0	-45,240	-595,069	-634,71
	ons			4,887	1,871	6,75

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Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
Change to Antici	pated Final Project Cost	5,591	0	-50,127	-596,940	-641,476

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Utilities Cost Report: Section 1 - Utilities Summary

	Bud	get Informati	on		Committed				Forecast			Third Contrib		Vari	ance	Actu	ials
	А	В	C = A + B	D	E	F = D + E	G	н	i	Ĵ	K=F+G+H +I+J	Ĺ	M = K-L	N = M - C	O = M / C - 1	Р	Q
	Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	Cost of Work Done	Outstandin Amount
Post Settlement Utilities	2,912	13,976	16,888	2,912	13,976	16,888	0	2,691	0	0	19,579	-188	19,391	2,503	14.8%	16,558	33
McNicholas	1,812	13,310	15,122	1,812	13,310	15,122	0	969	0	0	16,091	-188	15,903	781	5.2%	14,725	39
01 Conflicts	1,812	4,066	5,878	1,812	4,066	5,878		635			6,513		6,513	635	10.8%	6,513	-63
01A Drainage		2,543	2,543		2,543	2,543		-218			2,325		2,325	-218	-8.6%	2,325	21
01B Grosvenor St / Haymarket Sewer Coll	apse	178	178		178	178		0			178	-188	-10	-188	-105.6%	178	
01C Tower Place Bridge		71	71		71	71		0			71		71	0	0.0%	71	N. Control of the Con
01D Princes Street Outstanding Works		108	108		108	108		-38			70		70	-38	-35.2%	70	3
01E Priority 2 Works		2,559	2,559		2,559	2,559		161			2,720		2,720	161	6.3%	1,951	60
01F Public Realm Works		67	67		67	67		15			82		82	15	22.4%	82	-1
02 Legacy Works		1,411	1,411		1,411	1,411		0			1,411		1,411	0	0.0%	1,411	
03 Standby Team		0	0		0	0		0			0		0	0		0	8
04 Management Team		1,064	1,064		1,064	1,064		367			1,431		1,431	367	34.5%	982	8
05 Design Team		1,213	1,213		1,213	1,213		18			1,231		1,231	18	1.5%	1,116	9
06 Accomodation		30	30		30	30		29			59		59	29	96.7%	26	
Statutory Utility Companies	0	1,766	1,766	О	1,766	1,766	0	822	0	0	2,588	0	2,588	822	46.5%	1,833	-6
01 Scottish Power		126	126		126	126		35			161		161	35	27.8%	118	
02 Scottish Gas Networks		55	55		55	55		-20			35		35	-20	-36.4%	22	3
03 Scottish Water		943	943		943	943		523			1,466		1,466	523	55.5%	850	9
04 Virgin Media		184	184		184	184		75			259		259	75	40.8%	212	-2
05 Verizon		20	20		20	20		-14			6		6	-14	-70.0%	0	2
06 Cable & Wireless		49	49		49	49		84			133		133	84	171.4%	84	-3
07 Fibrenet		250	250		250	250		-62			188		188	-62	-24.8%	188	6
08 BT		139	139		139	139		360			499		499	360	259.0%	457	-31
09 Siemens		0	0		0	0		4	:		4		4	4		4	
12 Contributions (all companies)		0	0		0	0		-163			-163		-163	-163		-102	10
00 Legacy Works	1,100	-1,100	o	1,100	-1,100	0	1	900			900		900	900		O	

Comments:

All values are in £k.

Risk

Refer to Risk register for risks identified against McNicholas

Actions

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Tramco Cost Report Section 1 - Tramco Commercial Summary

		Bud	get Informat	ion		Committed				Forecast				Party butions	Vari	lance	Act	tuals
		A	В	C = A + B	D	E	F = D + E	G	н	j j	Ĵ	K=F+G+H +I+J	L	M = K - L	N = M - C	N = M / C - 1	0	Р
		Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	COWD to Date	Outstanding Amount
	Trams	62,400	5	62,405	63,645	5	63,650	35	300	0	C	63,985	-300	63,685	1,280	2.53%	72,912	-9,262
	CAF	62,400	5	62,405	63,581	5	63,586	35	300	0	C	63,921	-300	63,621	1,216	2.43%	72,848	-9,262
)1	Trams	55,042	0	55,042	55,042	0	55,042	0	0			55,042	0	55,042	0	0.00%	64,289	-9,247
02	Tram Maintenance Mobilisation	2,276	0	2,276	2,276	0	2,276	0	0			2,276	0	2,276	0	0.00%	2,116	160
03	Depot Equipment	740	0	740	740	0	740	0	0			740	0	740	0	0.00%	740	
)4	Miscellaneous	73	0	73	73	0	73	0	0			73	0	73	0	0.00%	73	(
)5	Modification 1 - Interior Layout	300	0	300	300	0	300	0	0			300	0	300	0	0.00%	300	
06	Modification 2 - Delivery First Tram	38	0	38	38	0	38	0	0			38	0	38	0	0.00%	38	
07	Phoenix and Prioritised Works	3,931	0	3,931	5,112	Ó	5,112	0	0			5,112	0	5,112	1,181	30.04%	5,112	(
10	Post Mediation Change		5	5		5	5	35	300			340	-300	40	35	6700.00%	180	-175
	Non CAF	0	0	О	64	0	64	0	0	0	c	64	0	64	64	#DIV/0!	64	
01	Miscellaneous Costs		0	0	64		64					64		64	64	#DIV/0!	64	

Comments

Miscellaneous costs were expended prior to mediation and have been allocated to this budget

Risk

Refer to Risk register for risks identified against infraco programme

All risk is held at programme level. This section of the cost report makes no allowance for risk.

Refer to the outputs of the QCRA/QSRA for further information

Actions

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Tramco Cost Report Section 2 - Approved Change

NC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Group	Chang Code
001	Provision of sand for commissioning	5,417	5,417	0		10	01
002	Blanking plate to cover bus tracker location	0		0	Zero cost change	10	01
003	Replace tie logo with Edinburgh Tram logo on screen saver within each tram	0		0	Zero cost change	10	01
Total		5,417	5,417	0			

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Tramco Cost Report Section 3 - Change in Progress

Notes Group C	Change Code
10	01
35,000 0	35,000 35,000 0

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Tramco Cost Report Section 4 - Anticipated Change

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Chang Code
1	Tram Integration Manager	300,000	200,000		Based on requirement for one year. Additional cost if requirement extends beyond 2 years. Offset by contribution	10
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		1
				0		
				0		
				0		
				0		
				0		
Total		300,000	200,000	100,000		

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Tramco Cost Report Section 5 - Credits & Contributions

NC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Chang Code
1	Tram Integration Manager	-300,000	-200,000		Assumed contribution from Transport Scotland	10
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
Total		-300,000	-200,000	-100,000		



Appendix 4 – Change Log

Infraco Contract Change Control Register - Period 1 Date Issued: 14/01/2013 CEC Approved
TAT Approved
On Street TNC/PAV



THC No.	PRIC No.	100 No	in. Societica	Description	Reason For Change	On Street / Off Street	Classe 80 / Schedule 45 Snothiction	T&T Clungs Owner	Change Category DC/UC/CR/IR	Date TNC Spend	Letter Ref.	Date to Smale Dow	Estimate Returned N/V	Date Estimate Received	Estimate Change Value (Design)	Estimata Change Value (Construction)	Time Implications	Date Issued bs CCC	CEC/ERT A	Date A aproved or Asyrcted	Igned Cost for Approved Contract Changes	Date 600 Essent	TCO Letter Au	N/V/CLOSES OUT	O Curomento
500	001	102	Hand Northwale Cycle Link	Change the design to widen the bodiesy alongstor the south side of	Historic Post Mediation Change	On Striket	Cascos 80	AS/SMG	6/8	21/04/3511	INF COSS 7787	N/A		05/08/301	£20,020-51	60.00		15/16/2011	CEL	10/10/2011	£20,000 51	24/10/2011	PAF CORR 7734	00	Previously PWTNC-001
5/02	002	508	Ocean Orise Froteiay	Amend the design of Ocean Orise to reinstate the footpath colors notify	Historic Rins Mediation Change	On Street	Casse 80	AS/GMG	- QA	21/06/2011	INF CORR 7286	N/A		15/08/201	£10,210.82	60.00		N/A	181	26/10/2011	\$10,290.02	26/30/2013	INF CORR 7911	00	Patricipal PWTSC 002
5409	009	343	Depot Acres Singe	Valency can seculat out the DTE at the Definit value purishe to example out Definit Online.	Historic Polic Strectation Charge	Off Street	Casse 80	AS/SMS	G/R	23/04/2011	INF CORR 2765	9/4		04/09/2011	869,223.43	60.00		34/11/2011	CHC	80/13/2013	£67,646,03	90/11/2011	INF CORR 2999	50	Prity Staty PWTNC-005
504	001	506	Bier, reim Place	Construction of the Depot Review of the basined right burn into Best reini Place as part of the	Historic Post Mediation Change	On Street	Casse 80	ASJEMIS	G/R	21/04/3011	INF CORR 7988	9/A		05/04/2011	846,247,00	60.00		19/10/2011	CEC	20/20/2012	\$46,247.08	24/20/2013	INF CORR 7938	50	Previously PWINC-001
100	005	527		design for Section 3CD coats. Production of a fearing report, India, Season'by design for option (f).	Historic Post American Change	On Street	Cause 80	ASIEMS	5/8	20/02/2011	INF CORE 2812	15/04/2001		19/17/201	£228,652.80	\$0.00		26/11/2011	CHO	24/13/2003	4228,652.80	25/11/2011	INF CORE 2001	50	Previously PWTNC-005
500	006	503		out the modeling ecc. Design for providing a new cycleway hunt the Mount to Princes Screet.	Historic Post Mediation Change	On Street	Cause 80	ANGME	58		INF CORR 2289	976		05/08/2011	26.436.83	60.00	- 3	19/10/2011	CHO	20/20/2023	19.496.93	24/10/2011	INF CORR 7835		Panican's PWTNC 006
990.1	000	508.3		Design for providing a new systems of some the Mount to Princes Street	Historic Post Mediation Change	D1 Street	Case to	1AW	C/A	21/06/3011	INF CORR 7789	M/A		23/03/2012	£1,668.73	5000	1	80/01/2012	CEC	28402/2002	11,668.71	30/01/2012		CO	Approval to 800 506
500	002	301		Provide a Califfication report and consciention of the St. Angives Source	Historic Para Meyragon Change	On Mosel	Carrello	NA KIANS	C/R	21/06/3011	INE COSE 2250	MrA		25/05/201	11M.095.64	6000	1	19/10/2011	797	15/10/2001	See TCQ SOLFey A	24/20/2011	PME CORE. 7010	- 00	Previous PWTNC-007-100-304 Rev A losses 15/12/11
				Public Reamingetign			100000	Torone		133511(3332			-	1550,000				11,100,001	540	and and come					PRODUCT PRODUCTS ESSAN AND COMMUNICATION
307.1	007	3043		Provide a far Bration report and compretion of the St. Andrew Sociale Public Representation: BCD SOF Fav A recent to agree BCD.	Historic Post Mediadion Crange	Q1 Spring	CV649-80	- 14	OR .	TCD to agriesi Cronge	Crurge	N/A	WW.	N/A	£198,025,49	, NA			CIE		.£199,005,486	13/12/2011	INF CORR 8028	- 00	
507.2	007	1012		Design consistent information to reflect insult from informal consultation with CEC.	George for Nature use by CEC	On Street	Cause 60	AL.	C/R	TCO to agree Charge	EDD to agree Change	N/A	N/A			N/A	Ĭ				10.00	14/05/2012	INF CORR 8040	- 00	
107.4	002	34.	3 St Annew Square	Request for 2 HC Grawings in DMG formula	Design for Nature use by CEC	Or Street	Casse 36	140	G/A	08/07/2018	INF CORE BASE	Advised by entail 30/05/2013, selectional cost £ 196 85		A/A				09/01/2013	at	00/04/0048	ECO for CEE approval at Change Meeting 14/2/19				
508	013	507	Castfold Revise	Obtain EAL approval for the highways design drawings at Eastfeld Avenue trans proving	Historic Ross Mediation Charge	OR Sover	Classic 60	AS/SMS	2/0	23/00/3021	INF.CORR 2001	04/04/2001		01/01/201	E30,025.09	80.00		19/10/2011	CHD	20/20/2043	£10,025.06	24/10/2011	INF CORR 7939	50	Previously PWTNC-008.
509	008	529	Cathedral Laire Substaction	Design of Cathelina Lane Scindation	Historic Post Mediation Change	On Street	Cause 90	ANISMS		12/03/2011	INF CGRR 7799	03/G8/2011		09/11/2033	£298,585,67	80.00		13/12/2011	CND	15/12/2011	£21£505.62	13/12/2011	NF CORR 8027	50	Previously PWINC-008 - Instructed to proceed in INC letter
590	011	322	Museyfield Gogar Lank	Myrradial Accominists in Works	Change Withdrawn Historic Post Mediation Change	Off Sover	Circle 80	AS, GAAG	- 04	23/03/3011	INF CORE 2815	B/A:		14/12/201	£1,850.29				TAT	21/11/2001	15,750.40	21/11/2011	NF CORR 7989	50	but awaiting CTC assertion to have ICO Withfram Previous PWINC 011
341		>43		So in Water Connection Born Sogar Lodge to the landowners new selections. Re-design of Ossan Terminal Bysass float.		Off Sover	Circle (62	AN/SANS	:58	18/03/2011	INF CORR 7614	WA.		7.0000000				A/A	200		12.00	21/11/2011	INF CORR 7989	00	
592	012	505	Ocean Terroline		Historic Post Mediation Charge	On Street	Classe 60	ANJOANS		13/07/2011		N/A		28/08/2013	458,645.15	80.00		15/10/2011	CEC	1005/01/02	£51,685,15	34/30/3011	INF CORE 7997	50	Previous PWINC 012 - ECO 505 Rev A Issuer 24/03/12, 38/19/ ECO (90/19/14/13/805 3/03/12
513	015	526	Various:	Review geograp or entirely exiting elements / condition - coay for six trending and bill solve	Historic Rusz Meyrlapon Change	On 50/446	CHUNK 80	N.	O/C	07/08/2011 (A&6) 36/08/2011	INF CORR 7839 INF CORR 7885	Various :		28/21/21	£49,547.07			15/13/3011		21/12/2011	£256,870.49	06/01/300	INF CORR 801	3 00	Principles PWTRC 013 - Exempte Quipping for 33 and oning reviewed for ABB and CBQ, 6CD 336A locked 20/03/31 for dough works (covers AB,C, Q)
523.1	045	526	Velos.	Revised design to minimize utility oversions / sortilists - used for six grants ing and size some	Historic Park Mediaton Change	D11 50 HHS	Schedule 45	(N)	Q/C	30/08/5283 (t) (CSD)	05W00#	Various		N/A	N/A	,		15/13/3011				Nys		CO	13E is now a PAV being actioned under Schedule Part 45 (CDSSA assets 2000/12 RX centign World
534	016	358	Value	Unity Masoing Entrange Getting Stoy Coam Properties	Historic Post Mediation Change Historic Post Mediation Change	On Served		ANGMS.			05W-005 INF CORR 7835	17/06/2011 02/12/2011		16/32/201	193,756.07			27/02/2012	CEC	27/07/2012	492,756.07	25/52/2012	INF CORR 8168	50	AGNEO
545	014		Establish General			Off Spreed		NYCHIC		02/08/2011	INF CORE 2808			Costs included in \$NC-531			-	CONTRACT.	-000			N/A		60	Previously PWTNC-015 - Instructed to proceed in TNC letter NOW SUPERSECTORY TNC SSL.
526	017	565	Despt & Mini Test Trace	Additional Watermain requirement at Depot and Mini Test Brack	Historic Post Mediation Change	Off Street	Cause 60	AB/SMS	D/C			08/13/2011		19/12/2011	1000	£54,281 72	W/A	16/04/2002	CAL	24/04/2002	£51,281.72	36/04/3013	PUP CORE SEZA	175	Chare up 885 on why TCD not returned
517	018	530	Depot & Mini Test Track	Additional BIT Ducts at Depart and Mill Test Track	History Post Mediation Change	OR Street	Cause 80	AS/SMS		08/06/2011	INF CORE 7884	08/13/2011		13/12/2011	1000	\$3,208.66			78.1		12,565 65	16/03/2013	FNF CORR 9072	60	Previously PWTNG-016 - Interstood to proceed in TNC retain
518			The Mount	Design & Installation of a new cyclemay through the Mound / Hanover Screet junction - SEE TNC 505 (WITHOLISM)		On Street				06/06/2011														60	Previously PWTNG 018 - WIRNI 24" (Duplicates 500)
519	009	559	Town Flags Dead	Design of a temporary transition in York Place (WITHORAWA). Valve chamber action, and alteration works to \$00mm water main at the	History Fest Mediation Change	Ot Street Off Street	Cause 80	A5/5M5		08/08/2011 18/05/2011	INF CORR 2229	13/06/2021		34/25/201		£305,786.30		16/02/2012	CEE	20/02/2002	£305,826.36	28/02/2013	INF CORR S160	00	Previously PWTNC-011: Withouse (Dupitudes 000) Previously 09C-137, Estimate reviewed and locaed back to
				Depot	100000000000000000000000000000000000000			200																	885 with comments, signed TCD returned by 885 \$/03/12
523	008		Heymanet	Temporary Accommodation	To provide assummodation for McNicholas	O1.Street	Screen 6/55	RL.		05/30/3013	INF CORR 7016	01/11/0011		1/(1/201	N/A	\$4,592.00		WA.	TAT	00/10/2001		AL/A - Schedule	N/A-Street e	A/A - Schedul	Drightely Cause 60 now Cause 45.
522	-019	WA	Hayma vet I	Road Reconstruction		Oil Street	Schedule(85)	KM/RL .	000	-02/20/2012	INF CORR 7907	02/11/2001	N/A Schedow 45	NVA Schedule 45	N/A Screpule 45	N/A Schedule 45	TIA	02/20/2011	CEC	20/30/2003		AUA - Scheoule	ACA - Scheoole	A/A - Schedul	Titans for to TNC 544
3/06				J. Particle Programme and the control of the contro		A CONTRACT	Section of the second	22/01/2-11	1970	100000000000000000000000000000000000000	the bearings.	A1453000	COLUMN TO SERVICE SERV	Chicago and the control of the contr	Manuscript and a second	ALL CALLS OF THE PARTY OF THE P		20/00/2007	1 50000 6	CATONICAL		45	45		
523	090		Herma set 3	According to Trans		Oi Street	Screen e 45	184	100	100000000000000000000000000000000000000	INF CORR 2020	73/11/2011	*	Costs increment in New Investigation		The second second	None					N/A	45 N/A	45	2300 Included in PAIC 005, TRANSPER TO SER FOR ROAD RE-
529	019	586	- Control of the Cont	Acceptaci CRR / Plans Teating NEL Design Finance for (elso installed Conserver)	Neduced scope in relation to Dramage and	Of Street	Screen 45 Cress 40	AS, ISMIS		07/90/3011	INF CORR 7938	2.00000000	Y	Costs included in 60e investigation (14/05/2011)	New Complete coll	-180,555 39	Norm	03/07/2012	CEC O	1/03/15013	440,256.18	65. N/A 16/07/2013	N/A N/A NF CORR 8/55	60	2300 Includes In PARC 025, TRANSPER TO SHIFFOR ROAD RE- CONSTRUCTION
529 524 525		-	A foot of Gyle A root to Gyle	NIL DANGE FERBORISH (AND PERMANE CONSERVATION) Ship Access for Remedial Words	Necessary in relation to Dramage and the chief made in the control of the control	Off Street	Casse 80	AS, GMG		02/30/3011 30/09/3011 30/09/3011	INF CORR 7805	20/01/2001	Y	PROPERTY AND LABOR.	N/A	-840,515.25	Norm Norm	03/07/2012	CEC O	N/09/12017	445,236.28	16/03/2013 16/03/2013	N/A N/A N/F CORR 8455	.00	CONSTRUCTION SUPERSCRIPT SYS I.
529 524 525 525 3 526	019 019 026 026 027	-	The state of the s	NIL Denigh Pirahador (also Inticeles Conspiciçon) Ste Access To Remerial Worse Ste Access To Remerial Worse	Reduced scape in relation to Dramage and technic road Mark sp.	Off Screet Off Screet Off Screet Off Screet Off Screet	Schedule 45 Classe 80 Classe 80 Classe 80 Classe 80	AS,ISMS AS,ISMS AS,ISMS AS,ISMS		02/30/3011 30/09/3011 30/09/3011	Carrier Co.	02/11/2001	×	PROPERTY AND LABOR.	No.	-140,059.39 30,940.34	None None	93/07/2012 N/A	CEC 0	NOV12012	445,236.18 46,838.41	6). N/A 16/07/2013 12/12/2013	AVA PAR CORR BISS	.00	CONSTRUCTION SUPERSIDED BY S2S I. SEE THE S7S FOR UPDAPE
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529 524 525 525 3 525 3 526 527 528 528		-	A store or Gree I was store I was stor	NIL Concept Inflammation (case force and Conspectation) One Artistant End Remember Works Other Artistant End Remember Works The Artistant End Remember Works The Confessor Remember Works The Confessor Remember Artistant End Remember Soft Soft Soft Soft Soft Soft Soft Soft	Reduced scape in relation to Charlege and tended specification.	Off Street	Casse 80	AS,SMG AS,SMG	5/8 14/5 6/8	07/50/3011 30/06/3011 30/06/3013 37/12/3011 07/10/3011 38/10/3011 36/10/3011	INF CORR 7805 INF CORR 7806 INF CORR 7828 INF CORR 7828 INF CORR 7823 INF CORR 7823	20/01/2001	Y	14/05/3011 N/A	9 vee Conspication 90/8 1 1 1 1 1 1 1 1 1	80,940 34 80,940 34 820,000 00 822,758 57	Nore	03/07/2011 N/A N/A 15/17/2011	181	39/32/2012 29/32/2011 15/30/2011		15/05/2013 16/05/2013 15/05/2013 15/05/2013		.00	CONSTRUCTION SUPERSIDED BY S2S I. SEE THE S7S FOR UPDAPE
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552	043	A/A	Principle School:	2011 Chinomes (Impagu - Terroux ay Surfacing of Brack Intils	appressed by ctilling a pfed coloron. To allow Prices Speed to be user as pu	On Street	N/A	EM	MAX	N/A	N/A	N/A	N/A Schedule 45	N/A Schedule 65	N/A Schedule 45	N/A SCHOOL R 45	TBA		20070	100.000	£503,540.77	A/A - Schegule	A/A - Schiquis	AUR - Screepule	TCO Pring Assumption Valueton
552	011	N/A	Princes Street	BT diversion di punction of Princes Solvet and Social St. Carlo Street	pereblas	0150 set	N/A	KM	MV				N/A Schedule 45	N/A Schedule 45	R/A 5chedule 45	N/A Schoule 45	TEA					N/A - Scheduk	AS M/A - Screen is	NA SCHOUP	Pricing Assemption viewton
555	048	526	Site Wide	SOS to provide the services of Mass FeT unifier of Macco 2012	To assist in the Online resign	On Street	Casos 80	SL.	U/C	30/13/3011	60.15 FCO	26/12/2011		TIME CHANGE	SEE FOO SIE REVIO	N/A	Note	02/02/2012			TCOSSEREVO	30/11/2011	NF CORR 7568	V V	
559.2	048	516.3	Site Wide Site Wide	505 to provide the services of Matt Fell until 17th August 2012. 305 to provide the services of Matt Fell until 30th September 2012.	To assist in the Utilities design To assist in the Utilities design	On Street On Street	Carrie 60 Carrie 60	51	W.C	80 35 TCG	80 35 100	80.35 TCG 80.35 TCG	- 1	TIME CHARGE	SEE FOO SIGNEY O	9/4	Note	30/07/2012	CRE SE	/07/2002 SEE I	TCD 526 REV D	06/08/2013	NF CONR BMI	Ý	
559.3	048	516.0	S to W/re	SOS to provide the services of Matt Fell for remaining incidental work on the CIN	To asset in the Utilities excign	Di Street	Cusse 60	52	rite.	80.17.100	80.85100	80.85 100	N	TIME COURSE	E145,000.00	N/A	Norw	01/10/2012	CEE 50	40/2005 W/F	EXCITOT IN/YOUGO	02/10/2012	HE CORR MOS	y	TEO RABEO LANGER CLAUSE 80 25, N/Y 2345K. TIMIÈ CHARGE TEO
				24 (A. C.)	-																				
334	052		St Arowe Squar & Standard Flata St Arowe Squar & Standard Flata	Traffic Management Requirements Traffic Management Requirements	To facilitate early access 12 pacificate early access	On Street	Schedule 45	, in	D/C	A STATE OF THE PARTY OF	INF CORF 7559 INF CORF 8566	N/A		7/0	4					/12/2001		AVA - Schedule 45 AVA - Schedule	AS. N/A-3szedule.	N/A - Schedule	TNC Waveing Americans, costs and Schools with
535	085	529	Haymarini	DEE 1956 CHOIGHT (BIND DO AND TO CHAIR DIFFARM	To avoid to that went street	On Street	N/A	- No.		13/11/3011	INF CORR 8017	N/A	NA CHANGE P.	N/A SCHOOL S	N/A Schedule 45	N/A Scheou # 45	THA		CLE OF	aug cons		45	AS 1 PAF CORR BOL?	45	Printing Assumption Valuebus
220		-	York Place to Newhaven	Truck Work Materia's York Place to Newhaven - Brice Firing for Energy City Cand O	There is correctly no burget allowance to fund this.	Q1. Screet	Cause 80		G/R	1000			MILAL PICE 32	NO BURNESS	MUNICIPAL TO	ADDITION OF THE PARTY OF THE PA		14/12/2011	ctc		1000000		N/A	TNCNOT	Confirmation of instruction given by Colin Smith and nowed by Network 68 665
552	045	523	Hayma yet 1	DLE Base fel Oceans	Utility Captus	O (Street	Cause 90	566	THE	13/11/2011	INF CORE BOTO	06/01/2003	EINE OWNER	N/A	500524.2	A/A		N/A	191 1	117/2011	HE 121.1	19/12/2013	I PVF CORE 8016		ICO 521 Invest with value £ 16A, Time Charge 1CO
557.1	045	521.1	Hayror Ht 1	DEE Baye Relocations (Revised TCO to Increase N/E Value)	Utility Courses	On Street	Classic 80	RL.	LIVO	N/A	N/A	N/A	TIME CHANGE	N/A	MESILI.	N/A	184.)	27/02/2012	CEC 20	/02/2012	ME 5212	25/02/2013	NF COAR BLG7	V	ICO 521 Rev A louved to His water Not To Exceed \$104, Issued
(V. C. A.																			& apparated CLC 27/0/12, returned signed by 885 9/03/12
755.1	045	321.1	Hayona let 1	OLE Base Re-practions (Revised SCD to Increase N/K Value)	Utility Claimes	OT SERVE	Cause 80	N.	Mc	N/A	N/A	N/A	SIME OHNESE	N/A	TBA	rk/A	TBA	- 01/04/2012	CEC OF	/04/2002	NE 3212	06/04/2013	WF CORR 6237	- W	TCO S21 Ray 6 ISSUED TO INCREASE NOT TO EXCEED TO 2 DOOR, AGREE FINAL COST, TNC 549, 550, 562 AND 563
9-4												L													AGAINST TCO SZL, TO CROSS MATCH WITH 665 PIAC 45. TIME, CHARGE TCO.
357.3	045	501.3	Hayhariel I	OLE Base fellocations (feering TCO to however N/E value)	Utility Clashes	On Street	Cause 60	(FL	1Mc	M/A	N/K	N/A	TIME CHANGE	N/A	The	N/A	TBA	03/08/2012	CEC 03	(08/2002)	500 5212	06/08/2012	NF CORR 8565	V.	TCO not to anomed value increased to J. 125 k
557.3	06	321.4	Haymar let 1	QLI Bare Relocations (Revised 100 to howere N/C Value)	Utility Cashes	Cr. Street	Cause 60	N.	ine.	N/A	N/A	A/A	THE OWNER	N/A	164	N/A	THA	03/01/2013	CIE						TCO not to escand value increased to £ 145 k
358	004	342	Site Work	Provision of a CAD Technique	To progress VE proposals in relation to powerment re-construction	On Service	Cause 60	(N)		19/1/2011	INF CORR 8015	06/01/2011			12			N/A	181 11	/32/2011		13/13/2011	I NF CORR 8015	30	SCO issued a river Cucue 80.15 and applicant with SCO/23A louise 2nd Feb 2022
558.3	051	522.1	S to Wide	Provision sita CAQ Technistan	To progress VI. proposal in relation to powerrent re-construction	On Street	Dauge 80	784		19/12/2011	INF CORR 8015	06/01/2002		25/03/2012	£1.691.00			N/A	TAT 1	/12/2011	£1,049.00	19/12/2011		N	AGTE - ALASOAIR SIM OF CEC ADVISED PUT ON HOLD.
559	053	365	Eos Para	Detailed Design of York Place Seanchal	Terminal point excluded from the Settlement - Agreement	On Service	Casse (60)	CNL	5/8	13/12/2011	INF CORR 8099	10/01/2011			616,498.1			00/02/3013	CBD (a)	/00/2042	\$16,898.33	68/60/2013	NF CORR 8118	- 8	TCO ISSUED 3.2.12 AS N/ENCEED & S4,488.41. GET COMPRIMATION THIS IS CO. ISSUED N/EXCEED.
560	080	NA	St. Andrew Square	Omit \$0.7m of require to coad surface first ring	Value engineering initiative	On Street	Scredule 45	(社)	C/A	29/00/3023	INF CORR 8137	n/A - Schoolule (1)	N/A Schedule 45	N/A	N/A	(£200,000.00	TEA	08/05/0015	CEO 10	/02/2002	1	N/A - Schedule 15	M/A - Schedium 45	AUX - Schedule 43	CHAIT WALL COME THROUGH SCHEDULE 45 PERIOD END PROCESS, MONTOR
500.1	080	W/A	St. Angrew Square	Onto 80 7m of receip to your surface bits only (few sort for Spreed and frieffy signified)	Ancestal transfers	Dr. Street	Scredule 45	PL.	\$/A		INF CORP. 8221	NA-SCHOOLS	N/A SCHOOLW AS	N/A	N/A	SEE ABOVE	TBA	04/04/2011	CEC OF	/04/2012		45	A/A - Stangular 45	AUS SEMEUR AS	SEE ABOVE, SEE ALSO TINC 494 FOR TRAFFIC LIGHTS DE- SCOPE.
563	05.0		Forth Ports Area	Owit all worm at the Forth Ports area	Worse not required as part of the agreement	On Street	Cusse 80	- 06	C/R	100000000000000000000000000000000000000	0008 RND2 97H	36/01/2002						AVA.	N/A N/A		-82,413,000.00	E20.000.007	NF CORR 8050	-co	Inadriated by Callin Smith
163	045		2 Gn Street Gererally	OLE Design Charges for On Screen Section (PMC 045) - SIGMENS DESIGN WORKS	To accommodate relocations of CLE bases due to the position of existing services	On Served	Cause 60	GE.	OC		INF CORR 8052	81/01/2012						30/17/2011		/12/2011	120,000.00	100000000	NF CORR 8053.	50	COSTS NOW COLLATED AGAINST TCO 528.8
569	045	594/521	2 On Speed Germanie	Circular File Case	It reduces the size of the pile cap and by default the local impact upon unlides.	Q1 Service	Ciscus 80	04.	OIC	51/13/3011	INF CORR 8044	FE/QT/2003						N/A	TAT 00	V07/2013		09/01/2012	INF CORR 8055	- 00	COSTS NOW COLLATED AGAINST TCO 521-8
					movement is maped for more engaginers/lefficient working as the othe cap can be done without a requirement for any entira																				
484	355	500	On Street Generally	Wornste Moderning - TNC & TCO (581) WITHORAWN 12 1 12	display Mt. Security of Andr Commit of CIC	Of Server	N/A	-	C/R	21112/2011	INF CORR. BORS	16/03/2011	N/A Schedule 45	N/A Schedule-IS	N/A Schedule 45	N/A Scheou + 45	***	M/A	1AT 21	11001	£10,000.00	21/12/2011	I INF CORR 8045	A/A	AND ADDRESS OF THE PARTY OF THE
565	654	533	Entough Galesoy	Advanced design, worm for Edinburgh Gabreau Michigan Option	Worse recomber by Transport Scotland to	Off Socret	Cause 50	25	OR OR	25 - 10 - 10 - 10 cm	INF CORE BORE	16/01/061	NICK STREET TO	NAME OF THE OWNER, OWNE	Marking end	New Street, St	1.00	No.	76 12	01/2001	12,600.00	21/12/501	+ 5057 1 PM CORR 8048	70	Pricing Assemble to Verlation, Originally sincer Casce 60, To a Scheduly 45. Who to requested and cost assessed by Transport Scotland.
		555	Declaration of the second	between the second seco	Models and project the children cholic system Models for pote the Enthwish fram	and the same of		10000	1000	100,000	1100000	1000000							200		1.000	344,444,550	THE COURSE	399	THE REPORT OF THE PROPERTY OF THE PARTY AND ADDRESS.
CORRE					project and Edinburg's Galeway proposals															NAME OF TAXABLE PARTY.			The secretary		
363.1	684	589.1	Establish Garway	Advanted design worst for Editiburg's Gabriery Millimore Option	Extension of above to cover additional design.				D/C			AMAZA -							11	A01/3003	£3,850.00	13/03/3081	2 INF CORR 8070	-00	Rev 6 hower \$1,01/13 increasing value from \$2,650 to \$6,000
565.2	054	333.2		Advanced resign words for Edinburgh Gabreau Minimum Option	Rewarding of ECO 599 And arigin with agreed scope into application areas.	OR Street	Cucse 80	SM	D/C	80.13 700	80 19 FCG	85.13 TCD	×	07/04/2012	£5,949.00	N/A	1BA				\$3,849.00	200000	2 INF CORR 8088		
566	086	585	On Street Generally	Dusting Design Changes Due to Utilities Conflicts	To prevent delay by providing a solution for potential still ten conflicts in payance.	On Street	Cause 60	M.	D/C	12/06/3011	HNF CORR 8063	N/A		N/A	N/A	N/A		AVA		\astzcas	£10,000.00	11/01/2013	PAP CONT. 8062		TIME OWNER TOD
566.1	046	00000	Dr. Street Generally	Dusting Design Changes Dow to Utilities Conflicts	To prevent only by providing a solution for potential utilities conflicts in advance	On Mines	Cucus 60	15	DAG					N/A	N/A	N/A		01/06/3011		(06/2002		1,000100	1 INF CORR 8963		TIME OWNER TOD
567.1	000	556	On Sowel Generally On Sowel Generally	Dramage Deoign Changes Oue to URI Res Conflicts	To prevent cacay by provining a solution for potential still ten conflicts in advance	On Street	Cause 80	re.	D/C	12/04/3011	ME CONE 9061	N/A		N/A	N/A	N/A		18/05/2012	2000 10	\07\5085 \03\5085	£10,000.00	11/01/2013	POF CONTRACE:	*	TIME CHANGE TO:
367.2	75/0	S838	On Moved Generally	Orannage Design Changes One to UST Ses Continue Orannage Design Changes One to UST Ses Continue	To prevent callay by providing a solution for potential self-ties conflicts in advance	Or Street	Cause 80	-	DAC.						-	THE RESERVE		24/05/2011	2000	/07/5005 /02/5005			PAF CORR 8988		TIME OWNER TO
167.5	000	FINE.	On Street Generally	Dramage Design Changes Dive to Utilizes Contints	To prevent callay by providing a solution for popential splipes conflicts of agreeme To prevent datas by providing a solution for	On Stowart	Cacre 90		D/C							NA.		05/09/2012		109/2002			PAF CORR BIGA		TIME OWNER TOO NOT TO EXCELO VALUE INCREASED TO 2
567.3	050	11000	On Street Generally	Grantage Design Changes Due to UEF ten Contricts	potential utilities conflicts in advance. To present delay by providing a solution for	On Street	Carre 60	© .	- 0/0							F2.		Caracas	CEC	100	D for CEC approval at			, Win ,	32%
156	062	192	On Street Generally	Design changes due to Tracellorer conflicts	potential still tes conflicts in advance. To present delay by providing a solution for	01:50 set	Curry At	(O)	94	\$5/08/2011	INF CORR 8069	N/A		4/4	N/A	N/A		N/A	18.1 11		inge Meeting 14/1/13	31/01/2013	NF CONT 0063		TIME OWASE ICO
968.1	047	587.1	On Sovet Generally	Design changes our to fraction conflicts	popertial uplices to rife to in aquatice. To prevent pelay by providing a soluçion for	On Street	Classe 60	60.	O/C	N/A	A/A	TIME CHARSE	TIME CHANGE	W/A	7	N/A	186	16/06/2012	CEO 16	/04/2082	771.7.	18/06/2013	ON COMMISSES		TOO RASED TO INCREASE NOT TO EXCEED VALUE TO 8.
360	057	598	Epinburgh Part	Additional Parining Costs associated with the secention to the	potential utilities conflicts in advance. To provide services for the office extension	Off Street	Classe 80	0	C/R	11/01/3011	INF CORR 8064	N/A	Non-Colonies	N/A	N/A		1000	N/A		(10/2011	£79,300.00		I INF CORR 8064	ca	30,000.00 Approved by Colin Smith
				Edinburgh Park offices	Instructed under TNC 544 and eCO 512																2330-3220				
570	18, 130	N/A	Standaks Pate	Onlittle Resoul of Sies in Standwick Place	It is considered from empedient for the compactor that is contempt, working in the area carrying out similar mores to undertake the	On Street	Street/#45	FL.	(b)c	12/00/2012	INF CORR 8065	N/A Schedule 45	N/A Schedule 45	N/A Schiolog 45	N/A Schedule 45	AVA Scherule 45	TBA	HUA	TAT			N/A - Scheole 43	N/A - Schidum 45	N/K - Schedule 45	
C. 49 Cort					works our ently contracted to 665 also																				
571.1	064	523	Hose Street Hose Street	Hope Street Artistion Design Hope Street Artistion Design	Legacy works following MUDRA Legacy works following MUDRA	On Street	Cause 80 Cause 80	紅紅	5/R	34/05/3013	INF CORR 8312	13/03/2052 05/06/2062	Y	SEE TCG 573 Rev A	SEE TCG 579 Ray A		TBA	-01/05/2012	CEC 01	(06/2012)	SEE ECO 579 REV A	01/06/2013		N Y	
571.2	064	575.1	Hope Street	House Street Jonation Ceisign TNC Rev Bill Further design for Traffic	Lagacy worst following MUDPA	On Street	Clause 80	rs.	C/ft	36/06/3013	INF CORR 8644	22/30/2000	N	03/08/3013	£12,061.41		TBA	20/08/2022	200	(08/2002	£12,064.41			50	
571.3	064	375.2	Hope Screet	oignage. TCO 578 Rev A, agreement of exhibite to date. Hope Sheet Junction Design, Rev Citio to instruct Design for TNC 573. Rev 6.	tagacy worst bridging MUDAA	On Street	Cucus 80	76	CAR	20/08/2012	INF CORR BORK	22/30/2002	N				TBA		cur		D FORAPPROVALAT CHANGE MEETING	11/12/2010	O INF CORR 3687	(V)	
572	062	540	Cathetral Lane Substation	Retaining Wall Design	Site investigation shows an unwindered	D1.Street	Cause 80	PL.	G/R	18/00/2012	INF CORR BOSS	15/02/2002		81/05/2013	£9458.80	G N/A	TRA	19/01/2012	161 11	101/50E5	1,10,12	18/01/2012	NF CORR 8086	CO	
572.1	062	Jany	Cathetral Lane Substation	Recording Wall Design	retaining well adjacent to the sub-station site. Site investigation shows an unventioned	On Street	Cause 90	PL.	ige.	18/06/2015	INF CORE 8086	19/02/2012		84/05/2013	EMANAS	G ANA	TRA	25/06/2012	CIC 14	/06/2012	(34,958.86	26/06/2013	2 PMF CORR 8525	00	ANTICIPATE BIS WILL RETURN WITH NO FURTHER ISSUE
(2000)	200				initalining wall adjusted to the sub-station site.			2	1000					out of the	10000		1,000			200000		3,000,000		0.750	
579	061		flowburn	Non DDA Conscient Footsage (FIGNEFURN DILER)	OC requirement to ensure afternative solutions.	Off Street	Classic 80	SM	CW	29/04/2012	DROP SHIDT FAST	14/02/2012						06/01/2012						. 1	91571.1
573.1	061		Rosburt	Non DDA Compliant Footbash (RICHEBIORN DELEA)	Propose Solution	Off Street	Cucus 60	SM	£/#	23/08/3022	INF CORR 8302	15/04/2012						26/08/2012	1000	/03/2002				16	MEVISED ENC NOW ISSUED, 685 ADVISED VERBALLY NO. COST
528.1	068	542.1	Havmanet Statum Havmanet Statum	De title v agust stade ing. De title v agust stade ing.	To interface with the Network flat worm. To interface with the Network flat worm.	Off Street	Cause 80	SM SM	3/6	56(TAC	INF CORR BOB1	14/02/3002 511.19C	SEETAC	22/03/2012 SEE INC	25,000-00 SEE TAC		None None	15/01/2012	787 15 CEC 01	(02/2002 SEE)	ECQ 542-3 E3-322-34	15/01/2013	NF CORR 8081 NF CORR 8456	CO	
525	060	M/A	Hanistanies gesting	Fare Down Hayman or Station Warset Stansare and Paragret. THE NOW WITH DRIVING NETWORK MALECARRING OUT WORKS.	To interface with the Network flat works at Havinaries Station	OR Sover	Cucus so	Me	C/R	38/08/3013	INF CORR BOD?	14/03/2002	SEE COMMENTS	08/63/2012	N/A	6034,004.01	N/A	19/01/2011	N/A	N/A	6/6	NVA		19.	THE NOW WITHDRAWN NETWORK RAIL WILL UNDERTAKE WORKS, ACTHOUGH WILL BE DESIGN COST FOR SOS
576	026	303	Alexand to Syste	Reinstatement to 250mm Watermain Remedia Worm	To remark the firsted was showing	Off Scient	Cuspe 85	SM	DIC.	34/04/2012	INF CORR 8105	17/01/2012		22/00/3012	NA	25/238-86	N/A	26/03/2012,	OE 10	101/2002	236,797.81	26/04/2013	I PAF CORR 6279	N.	PASSING INTO ON TO NW. SEE TINC 447 CHECK WITH MIS & ESTABLISH WINY NOT RETURNED
527	265		Maymarket Visduct	Ownellan of Sub Station Relativing Wall and Pinth	remedial works undertaken by Claricy Downs [15] Individual Way the Alegeons Bull Works at	OR Source	Caywitt	100	26	SAPARA	INF CORR BOOK	21/02/2002		12/13/2012	100	46,602.82	Note	16/01/2012 (FCG)	1&1 20	01/2612	-	00,000	2 PH CORE 875.7	700	
528	366	10.0	Name of Valut	Design of Sup Matter Retaining Wall and Prints M Provisional Sum Allowance	To individuo with the Apopeons that works at Hayman left Station. To remove scenariose provisional scena from	On Street	Caywitt	NW.	Sk.	mytter milit	our sound outside	£1/00/2012		12/45/2013	120	457,967,93	200	36/01/2012	1000	/02/2012	-818.554 DD	2000 700 00	PHF CORR 8219	- 4	CHECK WITH 885 & ESTABLISH WHY NOT RETURNED
579	200	N/A	On Street Generally	Removal of entrangly and repried traffic management	the sinital value	270 Agr	27722 E.	27.1	37							20.000		- Activité	CEC	100000	2/1/5/	Con Maria	0.10000000000	N/A	LITTURISULD
580	075	547	On Street Senerally Section 3A	Carcellatin, of trativation materials York Place to Rewhaven Once Senioris wory to Tower Place and Unional Occurringes	Value or gineering initiative Value or gineering initiative	On Street On Street	Cause 80 Cause 80	SM	153 153	08/00/3012	INF CORR #131	06/05/2002				180,000		06/02/2012	CED		#1.900.000.00 -1900.000.00	09/02/2012	NF CORR 8135 NF CORR 8131	N N	REQUIRES REVIEW/CHECK
582	081	349	SMESON SA	Delete in according to Bowler's Viscost Strictmen	Value angineering initiative	Off Salver	Cwwso	SM	C/R	06/00/2013	INF CORR 6182	06/03/2003				£ 808-091-00		08/02/2012	CEC		(N) 100 d (n)	08/03/0013	Per CORR 8132	507	
7.63	077	WA	On Street Generally	Organization Styles and street works	Value engineering initiative	On street	Schedule 45	PL.	C/A	09/00/3012	INF CORR 8128		N/A Schedule 45	N/A Schidure 45	N/A School v 45	N/A Schirule 15	TBA	08/02/2012	CEC			N/A - Scheou's	N/A-Schedule	N/A - Schedule	
583.1	.077	N/A	On Street Generally	Ordering sets for on street worse	Value engineering instasse	O1 Soves	School v 45	PL:	G/R	13/03/3012	INF. CORR 8188	F/A - SEMINEW RS	N/A SCHROLIN 45	N/A SCHEWAS	N/A SKINGVINAS	N/A SCHOUL 45	TBA	12/08/2012	CEC 11	(03/2012		AVA - Storedure	N/A-SINGSW	AUA - SCHROLIN	
363.2	077	N/A	On Street Generally	Ordering setts for on street was sufficient on details requirements for	Value engineering initiative	On Street	Schedule 45	社	G/R	05/03/2012	INF CORR 8397	1/A - Screanviel 85	N/A Schedule AS	N/A Schedule 45	N/A screenue 45	N/A SCHOOL PS	TBA	08/05/2012	CEC 50	VO7/2025		N/A - Schedule	AS- N/A-Schedule:	Alik - School in	
583.3	.077	N/A	On Street Generally	consisted area, and charges bedding type for Sets.) Overving sets for an street works - few DiCharge to bedding	Value or givening in that we	D1 Scree	Schedule 45	RL:	C/R	17/10/2012	INF. CORR 8082	sylk - Schwou'w 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	15/10/3013	CEC 15	190/3083		AVA - Schedule	A/A - Schedule	A)A - Scredule	
563.4	027	N/A	On Street Generally	tiper ficulties. Ordering setts for on street works. New Elinteduce between Setts and Figures Street Scan.	Value orginaering mit lative	On Street	School a 45	M.	C/M	21/11/2012	INF CORR 8783	r _c /A - Sensousi 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TSA	12/11/2012	CEO 11	/11/2002		N/A-Schedule	A) N/A-Schedule A)	AS NA Scredille AS	
584	088	N/A	On Street Generally	Floating Track Flab Road Reconstruction specification	Value engineering intrative	On above	Screeu w 45	杜	C/N	15/68/2012	INF CORR 8191	n/A - Schedule 45	R/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Scholole 45	TBA	19/03/2012	CEO 15	A0955085	- 1	N/A - Schedule	A/A Schedule	N/A - Schedule 45	
12 - 124		0)	201 - 20		· ·	87	117	-	7	XO	(A)	7	n ,	Y.	M.	TA G		this	R 34	- 87	- 51	.=-		70-	i di

	PMC No.	K0 No.	trigation	Decription	Resion For Charge	On Street / Off	Classe 40 /	TAT Change Quesar	Change Category DC/UC/CR/96	Date TNC Date TNC	Letter Ref	Date Estimate Due	Estimate Returned N/V	Data Estimate Received	Estimate Clungs	Estimate Charge Value	You implications	Tata fissed	Approved BY	Duta	igneed Cost for Approved	Date 100	TCO Getter Ref	TOPRETURNED	Connects
						Street	Schedole 45 protruction	V4.50	DEPORTURE .	Carrier Control					Value (Design)	(Constitution)		wete	exc/ssr .	toproved or Rejected	Original Clarges	Estend		N/N/CLOSED OUR	
584.1	088	A/A	On Solved Generally	Road Reconstruction used Econom (New July Bollowing, computation process with CEC and RBS)	Value engineering initiative	On Street	Screen e-85	AL.	C/R	18/04/2012	INF CORR RESO	n/A - Schellule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	24/04/2012	CAL	24/04/2012		A/A - Schedule 45	A/A - Semilium 45	ANR-Screenia AS	
584.2	088	AVA.	On to set Generally	Road Reconstruction uses that for (Newton providing spacetic restar)	Value or gineering intrictive	On Moved	Screen ett	N.	C/R	06/08/3013	INF CORR BASIS	1/A - Schellule 45	N/A schedule 45	N/A Schedule 45	N/A Screau e 45	N/A Schellule 45	TBA	-23/07/2012	CIE	23/07/2042		A/A - Schedule 45	A/A - Screenure 45	AVA - Schwillia AS	
504.9	068	N/A	On Street Generally	Road Reconstruction seek Brasion, Ray Calvising change to Foam Contriest specification	Value orginosping initiative	On 50 set	SCHOOL N 45	PL.	GA	06/09/2012	INF CORR 8558	c/A - Schedule 65	N/A Schedule 45	N/A Scredule 45	N/A Schellule 45	N/A Schellule 45	184	03/08/2012	CEE	03/08/2002		A/A - Schwillia	M/A - Screenure	N/A - Schwillia	
584.4	068	N/A	Gri Street Germally	Rose Reconstruction specification, New Diseasing describe of footway.	Maturers treating initiative	On 50 set	Schieb/ik/45	PL.	C/W	17/10/3012	INF CORR 666F	n/A - Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schiebule 45	19.4	08/10/2012	CEC	28/10/2012	-	N/A - Schwalus	AVA - Schedule	NA Screous	-
587.5	088	N/A	Gr. Screet German's	Road Reconstruction specification. Nav 1 Revised Foun Contrate Road	Value originate in this like	On Sever	School (# 8)	FL	C.R	29/20/2012	INF CORR 8738	S/A - SCHOOL IN 45	N/A Schadule 45	N/A Schellule 45	N/A3cNetue45	N/A Scredule 45	This	1910/2012	ar	Associat		AS AUA - Semadula	A/A - Screens le	45. AUG. Schoolule	
-	5277			Pavement Design					777	2017				Marie Ma		Table Colors		***************************************		erbally Post Ag 17 10.17		45	45	63	
584.6	088	N/A	On Screet Generally	Ruse Reconstruction specification, New El Foare Consiste Shanewick	Value engineering initiative	Q1.Street	Schedule 85	PL	C/R	05/11/3013	INF CQR8 8754	nyA - Schedule 65	N/A Schedule 45	N/A Screeu e-15	N/A schedule 45	N/A Scheoule 45	79A	05/11/2012	CEC	06/13/2012		A/A - Schedue	N/A-3sheuk	N/A - Schedule	Named to avoid deray to Works
				Face (South Side)																		0	02	105	
584.7	088	N/A	On Street Generally	New G Acciditional Footway, and Kercing World, IC and 1D	Required as result of UE/Dy Works, works to the first embing weeks and locations where seeing	0:50 Het	50%e0v/e-85	R.	<.0	22/11/3013	INF CORR 8786	n/A - Schedule (5)	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schebule 45	184	19/11/2012	CBD	16/11/2012		AVA - Schwolik 45	A/A - Schedule 45	N/K - Screeu 6 45	
				DAVIDAGE TRANSPORT	Invests to be aldered to avoid street for riture.																				
545	042		Sas Wes	Descripe of Swyles Venicle	Varieting reterring intractive	OF Street	Clayer 80	SM	Lyc.					21000		42138/86		16/02/2012	1	20/02/2022	42130/40	18/05/2012		50	Signed 100 returned by 866 \$(03/12
586	20	273	On Street Generally	St. And the Square - Value Engineering Design Sharges	Value orgineering initiative	On Street	Cucus 80	".	C/R	11/05/2013	INF CORE 8338	08/03/2012	×	SE 586.1	507 586 1	NA	TBA	26/09/2022	cir	26/03/2013	SEE 386.3	22/08/2012	INF CORR 8198	У.	TCO INSUED AS E TBA
596.1	70	552	On Reset Generally	St Andrew Square - Value Engineering Design Enanges (Nevision for Street and Traffic Ughding)	Value engineering initiative	On Sover	Cupie 90	EL.	C/R	30/09/3013	INF, CORR 8220	36/04/2502	-,ν	04/05/2012	813,207.54	N/A	19.4	01/04/2012	CRE	04/04/2022	SEE FOR 357.1	56E TOO 557.1	56 E TCD 557 B	.6	
586.2	70	557.1	On Street Generally	St Andrew Square: Value Engineering Debign Changes . Up Rev of FCD	Value engineering initiative	On 50 set	Casos 86	PL.	C/R	30/03/2012	INF CORR 6220	36/04/2012	Y	01/05/2013	D5,237.51	5/4	184	06/06/2012	CEC	06/08/2012	\$15,227.51	20/08/2012	INF CORR 8526	Y	
500 M		1,0000	- 1.00 (1.00	D agree Chinge		5,000,00		5.	5-71		IS TO A COMM	100000	7.04	NA.	militario.	17017	Contract of the Contract of th		4(0)	(VANESTERN)	5/200300	120,500.00	N. C. L. C. C.	Vi.	
582	71		On Street Generally	Salmourgh Trave Gran to Setts Design	Value originating intrudue	Oi Street	Cause 90	PL.	96	19/05/3015	INF CORR 8130	06/09/3063	N/A	N/A	N/A	N/K	TEM								PAC 85JAD
587.1	71	355	On borest Generally	Editourign Trave Grahite Setts Design	Value engineering missistive	O1 50 HHS	Circle 60	ft.	06	19/09/2012	INF CORR 8107	26/04/2022	N/A	N/A	N/A	N/A	184	12/08/2012	CES	12/03/2012			INF CORR 6187	y	REVISED TNC ISSUED + TCD FOR FIRST TIME
587.2	71	555.1	On Street Generally	Editions Transference Setts Design Pleasion details requirements for	Value ong/helsing hillighte	On Street	Cause 60	ft.	oc	30/05/2012	INF CORE 8307	01/06/2012	Y	12/07/2013	E15,512.1	S N/A	TIA	08/05/3012	CHO	08/05/2002		10/03/2013	PWF CORR 8107	(V)	
587.3	31	1000	On Screet Generally	non sected areas, and changes benching (you for Setts) Edinburgh Trans Grante Setts Design Pres 6 of ECO package out Change)	Out and hearing his of a	On Server	Cause 50		DC DC	see above	saw abow	me above	see above	new above	£15.542.1	S N/A	TM	03/08/2012	CRE	10/08/2012	200.032.00	13/04/02:1	PAF CORR 8577	00	
387.8	**	303.2	Dr. Scient Germany	seconds that it sale sets being like a pasing accommodate sale.	And the state of the state of	LIV. SCIENC.	Carreno.			HER HOOVE	100.40000		100 20,000	188 2004	419,547.1	100	100	08/08/2022	444	Tilyoppecas	419,512.15	13/10/1044	THE CORE IN	54	
588	75	AVA:	On Should Germany	Staffurd St Responsed Planning Spaces	To bring pareing spaces becomes overaffer		Scheou wills	ft.	C/N	, Sec. 100	INF CORR 8187	WASING #5	N/A Schedule 45	N/A Schedule 45	N/A Schiebly 45	N/A Scheule 45	180	16/02/2011	CBE	20/02/2002	65.60	20/03/2013	UNIVERSE OF STREET	A/A	Services thanger confermed by 885 (error) TCD 551 RAISED & RETURNED FOR RECORD PURPOSES, AS DA STREET TCD
589	89	552	Aspert	Geological etions transcopic story and camply	Andre sulf users of subsides	G# Sower	Cwow 60	SM	G/R	29/02/3012	INF CORR 8166	20/09/2002		N/A	N/A	£250,000.00	Norte	27/02/2012	cic	22/02/2012	£250,000.00	28/52/2013	WF CORR 8166	co	TCO SIGN RETURNED SHOWED BY BIGS DATH MARCH 2012
590	23, 128	N/A	The Mount	Newspowary Fore The Mount into Printers Street	Works to enable Mound to record to traffic	O1.Mrest	Schedule 45	ri.	. U/c	20/00/3015	INF COME BANK	N/A Scheloure 45	N/A Schedule As	N/A Scredule 45	N/A Schedule 45	N/A Scholule 45	184	30/02/2022	CEC .	20/02/2002		A/A - Schedule	A/A - School in	N/A - Schedule	
592	85	563	Haymar HE Vilady CE.	Oliversion of Scottage Power Capits at Haymariet Visions	Works for Redwork Rail Station	Off Street	Casus 80	SM	WC	29/02/3012	INF COR8 8164	20/03/2002	¥	22/04/2012	A CONTRACTOR OF THE PARTY OF TH	POWER CONTRACTOR	Urgent 190 to	04/04/0012	cit	04/04/2023	£21,788.76	45	45 INF CORR 6225	45 V	TCO ISSUED, NEGOTIATE WITH NETWORK RAIL ON
592			Hayman Mit Kandin	Resign verzo at Car Park Entrance	Wider actives into car pary	G# Spreet	Cause 60	SM	we	ON HOLD							avoid Future							N/A	REFUND, AS NW REQUESTED CARLE MOVE NOTE - ALASDAIR NIM OF CEC ADMISED PUT ON HOLD
599	84	558	Secondary Point 14	Consistent of Design Warry Range of Yorky Prace	Ownign Cented on	01 St/Ht	Ciavas 80	FL.	00	01/01/3012	INF CORR 8173	53/03/2003	Y	04/05/2013	N/A	N/A	None .				SEE TOO 358 REV A	01/03/2013	PNF CORR 8173	-00	
583.1	94	558.1	Secondary Price 1a	Consistion of Design Work North of York Place, New Alacth dwingers Infraco letter	Design Cestadion	On Street	Cause 80	PL.	00	07/07/3013	INF CORR 8178	27/03/2012	Y	04/91/2012	N/A	N/K	Note	06/07/2012	CIC	09/07/2542	65.00	33/02/2012	INF CORR 8/01	50	
554	15	550	Emilional Detailed	Earthway Garenia voles open - DESIGN	Decign Development	Off Street	Cause 60	SM	96	13/03/3012	INF CORR 6165	06/04/2012	٧	05/07/2012 + 07/08/2012	See: 100: 645	8/8	18A	05/08/2011	CEC	02/03/2003	me 1AC 011	13/03/2012	ANY COMM STATE	*	UPDATE ON GATEWAY RECEIVED 67/04/2012, THIS REVISION INCLUDES HISTORIC COST APPLICATION
384.1	28		Establish Schway	Edinough Guerray stope out on heart on to Add for consider George for Future Project - DENGN	Design Development	Off Street	clause 80	SM	DC DC	30/09/2013	INF CORR 8222	SECUCITUR	n	See TAC G43	See TAC GES	N/A	70.6	04/04/2012	cac	04/04/2012	es 1/00 043	N/A	N/A	N/A	SEE 594 3 AND 558 L
						Second Co.																			
594.3	18		Teleburgh Sutress	Exhibiting Selection states option (mechanisms of each of special of anathom doe to modificate descripts because discussing select). Exhibiting Selection states out on (mechanism equility design of CEI due.	Design Development	Off Street	Clause 80	MA .	96	00220000	INF CORR 8393	25/09/82		See TAC 643	See TNC 643	N/A	TBA	11/06/2012	at	HOVOM/2002	ee TAC 011	NA	N/A NY CORR 8971	A/A	SEE 594.9 AND 559.9 Clause 80.15 TCO (seed. Estimate returned by 896 on led.
381.3		3291.4	Crimburgh Sateway	to the sweet Country) - DESIGN	ion-8- resemblan-1	DE XIVE	0200	396	- 90	THOMESON	UAL TRUSCUSAS	207.2082		See Too. or s	New J.N., 013	1976	190	14/06/SOLEC		ľ	se 176.1011	11/05/2011	gran summana		July 2012, although excludes a number of the requirements as requested under revised TNC's.
504.4	15	359.2	Edinburg* Gallerian	Edinburgh Galineary stock out on supply the Edinburgh Galineary resign cransings in accord formats	Design Development	Q# Street	Curve 80	SM	96	15/09/3012	INF CORR 8522	0.09.2011	N			15/8	18.4	06/08/0011	CEC	06/08/2002	CO FOR APPROVAL AT	15/08/2013	INF CORR 8522	. 7	
595	92		Hayrisa yet Vladutt	Delection of Dear Fell of Facility	Design Deseropment	Off Sover	Cause 90	SM	oc.	36/04/3015	INF CORR 8275	N/A - RINC'S 2/O4/2012	- N	02/04/2012	N/X	N/A	TRA	08/05/2012	CRD	08/03/3005	19(0)(1)	The Control	INF CORR 8302	(/80)	Chase up 865 on why TCO not returned
595	32	N/A	Section 10	Unities cauting with manhole 10/NOA08 Onte disconnection of Bus Traces	Utilities conflict Words Cannel out by McNicholas	On Street	Screoule 45 Screoule 45	社	PAY	17/07/2013	INF CORR 8193	N/A Schellule 45 N/A Schellule 45	N/A Schedule 45 N/A Schedule 45	N/A Schedule 45 N/A Schedule 45	N/A Schedule 45 N/A Schedule 45	N/A Schedule 45 N/A Schedule 45	TBA	15/09/2012	CNC	16/09/2012			N/A - Schedule N/A - Schedule A	AVX - Schedule AVX - Schedule AX	TNC to back PAV
158	66.	N/A	Section 3D.	C 80° I Wrate Volg	The operation of Geographic Lines	013099	SCHOOL WAS	社	PAV			M/A Schellule (f)	N/A Schedule 45	N/A Scredule 45	N/A Schedule 45	N/A Schedule 851	TBA					M/A - Schedule 4)	N/A - School w 45	A/A - Scredule 45	TNC to divide PAV
509	97, 157		On Street Generally	Rosery Trace Sive ConstituCtion	Design Development	On Street	Schell #45	PL.	00	01/05/2015	BBSB JORG 1461	AUA Scheinule (f)	N/A Schedule 45	N/A Schedule 65	N/A3che/Ue45	N/A Schedule 45	18A	34/94/2012	CED	24/04/2012		N/A - Schedule D	N/A-Stredule 45	AUX SCHOU'S 45	
600	72, 126, 188 88	560	Section 20 Section SC - Sugar Train Store	Uplans affecting the conspication of GREE foundations (PEWG SHANOWOOD Change of Length of Shalow	185 Faculrament	Of Street	Clause 80	SM	PAV DC	15/05/3018	INF CORR 8150	M/A Sche(s) (# 45) 35 A 12	N/A SCHROW AS	N/A SCHULE 45 12/07/2015	N/A SCHIPLIN 45 62,671.0	M/A Screedule 45 0 £25,191.60	None	50%00/6/3012 35/08/2012	CEG	15/03/2012		55/03/2013 15/03/2013	M/A - STANGUM AS MF CORR 8290	Alik - Screepule Ali	NOTE - PIUNG NOW SPLIT HL/ED
6011	86		Section SC+ Gogan Trans State	Change of Length of Shelter	165 Requirement	Off Street	Cause 80	SM	0¢	A STATE OF THE PARTY OF THE PAR	INF CORE 8150		У	12/07/2013	2,010	0 825,181.60	Note	15/09/2012	177	15/03/2002	627,862.60		INF CORR 8532	Y	TCO RETURNED BUT TYPO SHOULD BE TCO SHOREY A
602	93	562	North Fork Place	Great PSD Poles for Transcopes North of York Place	Trace to larger goes beyond York Place	Off Street	Classe 80	n.	oc oc	20/03/2012	INF CORE 8156	N/A		N/A	N/A			64/04/2012	CIE	01/04/2002	419,240.00	25/03/2013	FUT COMP. STATE	- 1	ORIGINALLY RAISED AS CLAUSE 45, CHANGED TO CLAUSE
60)	174	100	5 in West	Bus Traces - RailConstree Base	Eschange Data deflexen the Bush acres web	S to Wide	Casse 60	WD	00	1	INF CORR 6479	34/08/2512	¥	18/08/2012	N/A	£11,585.00		21/07/2002	CAE	23/07/2002	£31,536.00		PM CORR 8670	50	BIL AGREED AND TCO INSUED
661	87	N/A	Torr. Place - Waverey Bridge	Offices affecting the construction of OREE foundations (PEWS)	page and the relevant trans system.	On Street	Schedy e 45	PL.	YAV	ege i norma		N/A Scheoule 45	N/A Schedule 45	N/A Schedule 15	N/A Schedule 45	N/A Scheoule 45	TBA	N/A Schely e Xy	TBA			N/A - Schedule	N/A-3sherule 45	N/A - Schedule 45	NOTE - THIRD AND FINAL PART OF PIUNG FOR OTHER AREAS SEE THE 400, AND 543
605	66	563	Death		Full Operation Control Not Yet in Place	Off Street	Cause 80	SM	UE .		INF CORR 8236	N/A	У	N/A	N/A	\$16,250.00	None	04/04/2022	ar	04/04/2002	£16,250.00	@104/3013		50	
605.2	56	361.2	Depot	505-50601 5e tching (NOW 10 35TH JULY 2022 , WILL 5G BEYOND) 505-50601 5e tching (NOW 10 34TH OCTOBER 2012)		Control of the last of the las	Cave 80	SM	UE UE		INF CORR 8440	N/A	y y	N/A	N/A	£95,250.00	None	15/05/2012 06/07/2012	CHE	25/05/2002	£16,250.00	\$0/05/2013 50/03/2013	INF CORR 8880	60	
77.00	11.00							-77	2100			× ()		200			4675	- WALESTEE		-4-11004				- 10	
605.3	144	141.3	Depor	546-56KIDS SHEETING (NOW TO 23TH JANUARY 2023)	Full Operation Control Not Yet in Place	Dit Street	Clause 60	SM.	- OC	15/10	N/A	N/A	.,У.	N/A	M/A	£16,250.00	Nove	08/10/2012	CHC	08/30/3003	£15,250.00	13/20/2012	INF CORR 8676	60	
605.6	- 86	361.8	Depot	Son-Seaton Switching (NOW TO 1801 APRIL	Full Operation Control Not Yet in Place	Off Street	Cause 80	SM	.00	N/A	N/A	N/A	y	N/A	N/A	\$16,250.00	Rote	14/01/2013	CEC		\$26,250.00				
606	79	N/A	York Place - Waverey Bridge	Worrs Delayed and disrupted as result as result of nor in carried out by	Utilities co-flict	On Street	Schedule 85	FL.	PAV			N/A Schedule 45	N/A Screedule AS	N/A schedule 45	N/A School of AS	N/A School (45)	TM					N/A - Schadula	N/A - School u	AUA - Schoolule	DICTUDED PERIOD END 54 ESTEMATE
600	24		On Sevent Generally	This parties Delate 150v societs on Train Stoas	Deletion of society the to no longer being	On Steed	Schedule 85	FL.	QR .	05/04/3035	INF CORR 8228	30/04/0012	¥	34/09/3012	N/A	-6,153.79	TBA	01/04/2012	CIC	04/04/2002	-46,153.79	65	A) INF CORR 8704	45. CO	
608	95	624	Off Spread Generally	Deleter 125v socrets on Fram Stoas	required for mulidenance Deletion of society are to no longer being people of for mulidenance	Off Sorver	Classe 80	Ht.	C/R	02/04/2015	INF CORR 8224	3G/GA/2602	Y	81/98/3013	N/A	-£10,851.41	DIA:	04/04/2012	CEC	04/04/2012	-£90,851.41	23/30/2013	INF CORR 8205	co	
600	::91	574	Off Street - Section 1A	Triality Management For Section EA	required for maintenance Confirmation of flequirements and codate	OP Novet	Cause 80	HC.	- C/A	02/04/2015	INF CORR 8238	03/05/2662	, X	26/03/2013	N/A	£135,140.45	None:	.04/04/2012	CEC	04/04/2002	1139,143.45	12/06/2012	INF CGRR 8979	-03	TCO APPROVED CHANGE MEETING 11.6.12
	168	164	Epinburgh Gabrian	Sevens Long Lead libres	Grider For OLS Pores and Torrious	Off Street	Caute:90	SM	00	15/05/3015	INF CORR 6469	57/08/2502	- 8	Clayer 80	N/A		Note:	09/07/3012	CID	09/07/2002		12/07/2012	INF CORR 8449	(V)	
600	100		On Street Generally	Encavation for Track Sub-now by Odilbas Contractor	Address utilities size has as they occur, and	On Mires	Schedule (5)	FL.	W	30/00/2015	INF CORR 8508		N/A Schedule AS	N/A Schedule 45	N/A Schedule 45	N/A School e 45	DIA:	06/05/2012	CEC	08/07/2003		N/A - Schedule	N/A - Schedule	M/A - Schedule 45	
601	114		CO SOME OF STATE		public of weapfor to feducate work																				
600 601 602	114		On Street - Gert ally	tion Hoor Braiding Coordina ON HINEE	aiold disciption to infract wore Attornmorate planding changes settle discipled by Demator	On Street	School # 45	AL.) (jk) ·	4	N/A - SCHOOLWAS	N/A SCHAIN'N 45	R/A Screenie 45		N/A SCHOLUM 65	TIM	34/04/3083		24/04/2002		45	N/A-SCHOLUB 45	N/A - SEMBOLIN 45	
621 622 632.1	114				Accommodate pranding changes being	On Street On Street	Schedule 45 Schedule 45 Schedule 45	能 能 能	C/K C/K	30/00/2015	INF CORR 8585 INF CORR 8502 INF CORR 8583	N/A - Schedule 85 N/A - Schedule 85 18/05/2002	N/A Schedule 45	N/A SCHOOL AS N/A SCHOOL AS	N/A SCHARUP 45 N/A SCHARUP 45	N/A Schedule 45 N/A Schedule 45	TBA TBA	34/04/2012 08/05/2012 34/04/2012	CEC	24/04/2002		65 N/A - Schedule 65	N/A - Schedule N/A - Schedule A5 N/A - Schedule	NUA - SCHROLIV AS NUA - SCHROLIV AS NUA - SCHROLIV	AGRED AS TM RELATED NOW UNDER SCHEDULE 46
601 601 602 602	114		On Street - Gert ally	tion Hoor Braiding Coordina ON HINEE	Accommodate printing changes being that the py Querago.	On Street	1	RE.) ·	1					V. 30	TBA	36/09/3083				45	65	45	

TNC No.	PMC No.	NCO No.	teater	Desiription	Reason For Change	On Street / Off Street	Classe 60 / Schedole 45	TAT Change Owner	Change Category DC/UC/Ch/sh	Date TNC (string)	Letter Ref	Date Estimate Due	Estimate Betserod N/Y	Dala tylimata Received	Estimate Change Vene (Design)	Estimate Change Value (Construction)	True Implications	Tate fromd	Approved BY CEC/TRY A	Data percent or	Agreed Colf for Approved Contract Changes	Date 100 (suind	TCO Gotter And	N/M/CLOSED OUR	Comments
644	101		On Solves - Rüstelay Place	Rathmay Pass It all's Management Americans	Safety issues at Partierston Place and of Rootesay Place following Inscienced about of	On Street	SCHOOL B 45	16.	GA	36/64/3013	INF CORR 8382	N/A - Scholule AS	N/A Schwarze 45	N/A Scredule 45	N/A Schedule 45.	N/A Schellule 45	THA	34/04/3013	CIE .	14/04/2011		A/A - Schedule	N/A - Schellule d5	AVA - Screenule 45	
605	92	568	Off Street - Section 2A	Design well for quoteing off, of the war triber the Harmanist About its	truff's switch	Off Street	c'ause 80	SM	90	36/94/3011	INF CORR 8276	A/A	A/A	N/I	SEE TOO SOR FRENT	N/A	TBA	14/04/2012	cir	24/04/2012	SEE NOO SAN REV A	08/05/2013	INF CORR 8800	7	40 15 TCO
615-1	92	1681	OR Street - Section 2A	aresult of the sine-relief facility being contract. Design will be blocking off, of the wall under the Raymanies various as a result of the sine-relief facility being contract.	Request by NW to block off sold	O# Street	clause 80	SM	×	SEE THE GES	SEE TAC 615	M/A		07/08/301	2 AL900-1	2 6/4	TEA	14/08/2012	cic	24/09/2012	\$2,800,12	08/30/2012	INF CORR 8669	co	TCO REFERENCE SHOULD BE REVA, OTHERWISE OK TO CLOSE OUT
506	92	567	GB Spring - Section 3A	Construct wall for blocking off, of the wall under the Hayman list visibut.	Request by NW to block off world	Off Sower	tiwa e 80	SM	90	25/04/2012	INF CORR 8277	N/A	N/A	NA.	5/6	£10,797.68	TRA	14/94/2012	CIC	24/04/2012	£30,767.88	08/05/2013	NF CORR 6301	50	
667	105		GR Street - Conscally	as a resolt of the cown relief ballity being unitted. Stone Stone Branding Charges - OFF STREET.	Accommodate brancing changes being disables by Common.	OB Street	Clause 80	2M	C/R	253.5752	INF CORR. 6381	18/05/2012	N					34/04/2012	GE :	24/04/2002				1.55	See 617.1
617.1	105	128	Off Street - Generally Off Street - General	Trans Stops, Branding Changes - QRESTREET Organ Depart 2000 Here Dishester Manhore - 10796	Accommodate brancing changes being finalised by Queriator Requirement by Scotian Water	Off Street	Clause 80	SM	C/R UE	0.00000000	INF CORR.8304	25/05/2022	N Y	24/05/2011	2 79/6	16,176.3	1 None	80/04/2022	CIE :	08/03/2002 80/04/2002	TOD FOR CISC APPROVAL	15/06/2012	INF CORR 8996	50	Chase up 86% on ethy antimate still sub-landing
		-					. 22.00 33.	705	5,95			-0.00.00.00								V ()	18.6.12			3.507	
609	106	575	OW Street - Capot	Onit Bar Weing Equipment	As duck welling is specially admit the manipules will not yave one capacitors in mouse.	OR Street	Ciause 60	504	DC DC	01/06/2012	INF CORR 8250	25/05/2002	,	21/95/301	N/A	414,450.0	More	MQ/04/2012	CEC	30/04/2012	\$14 GB 00	12,06/2013	INF CORR 8983	- 00	
620	115	568	Off Street - Airport Tram Stop	Argost Fram Stop Geolge	Progress with George for Altrocal State Stool	O# Street	Cause 80	SM	DC.	10/06/3013	INF CORR 8305	03/06/2012	, v	SEE TCQ 546 Rev A	SEE TOO SEE Rev A	N/A	TBA	09/05/2012	CEE	08/01/2003	ME NO MERRY A	>0/00/201	INF CORR 8905	y	
620-1	115	569.1	Off Street - Argust Fram Stop	Airport Tram Mos Design	Progress with George for Arquel Transition	OR Sovet	Cayon 80	SM	0¢	ISSUED AS TOD	ISSUED AS TCD	HEURO AS TOD	BSUED ASTED	07/06/2013	217,785.87		164	03/08/2012	CEE	03/08/2002	117,781.87	27/09/2013	PAF CORE 8650	00	
621	in	587	Site Wide - Debuted MV Energyation	Among the places of the Hyd mean material and inglitization, (an immediate means therefore set and Camerian Lare the opening of any more closely with the place the power sousy is required for the first limit Commissions.)	Suring of CEC Decords sharps paid press to exid Sospon Power Capacity Charge and provide reserved to Testing and Commissioning. Will how admitstral payment as a result.	S to Wiew	Cause 60	ci.	UC	16/06/2012	INF CORR. 8319	Bec's 8/03/2003	7	99/03/3013	N/A	¥15,507.0	O More	06/05/2012	car	08/05/2082	TOD FOR CIC APPROVAL 3.742	10/03/301	INF CORR BAIL	co	Francis saving of £ 134 y on Deterroly Charges, schools will into 1 £ 22 y accrons on 168 ato as result sequeste with by Stotian Power.
622	117	589	Site Wide - IN Power Requirements for UTN	Agreement on Method of Recovery for Cripower for sub-station and Trainstatus	second visit by SR Agree method of recovery as CEC paying power should	S to Wide	Cause 60	a.	UC.	16/05/2012	INF CORR.8320	12/06/2012	¥	21/05/201	1 N/A	CONFIRMATION OF AGREEMENT	None	08/05/2011	CEE	08/05/2082	NYA - CONFIRMATION OF AGREEMENT	36/09/2013	INF CORR 845.7	, Y	
623	120	166	Depot - Comage Reports	Repail enfoor damage to Depot	Repairs	D# 56:990	Classe 60	a	100	16/05/2012	INF CORR 8322	08/06/2012	. Y	31/08/301	DN/A	41,867.1	5 Mone	08/05/2012	CEC	14/05/2013	TOO FOR CIT APPROVAL	28/08/2013	INF CORR 8535	N.	
624	116	584	Openity Commissional Air Sciency as Decort Garrier Asset	Scoops and Rt additional plans and Rtings to provide a compressed as	Request from CAF	Off Street	Cucie 80	0	UC.	16/06/2012	INF CORR 8338	13/06/2012		13/06/3012	M/A	85,576.0	O Miscon	08/05/0002	cir	16/05/2062	DN 26 8-12 FCD Ro CEC APPROVAL	11/07/2011	INF CORR 8450		Value agreed, stack work done - 14 9:32
			and workshop	supply to the Depot gardy roads and the world hip										25,00					-		8.7.12	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
625	113		On Street - Cathedra Lane - TNC with disks in the covered under SNC 566 and TCO 555 flex A.	Puriting Engineering attendence on vide at Cathedral Lane.	Observe and communicate/construets design amendments required as a consequence of semigramidate and/or amendments growns.	UC-SPREE	CANTOD .	rd.		90/05/9015	INF-CORR-6506							98/05/2005	- 660	100000000				- Avx	
626	141		Off Select - Establing & Gateway Translation RECURRENGENT NOW TRANSFERRED TO THIS 649	Advanced procurement of Ethiology Galaway Materials and Ethioment.	concerns Emple Saleway Eranistop make all are light files and staned separately from other Transition on Project	GR Street	Cause 80	SM	CR	20/05/3013	INF CORR 8306		N				TBA	54/05/2042	CEC	06/01/2012				N.	THE GIS NOW WITHORNWA REQUIREMENTS TRANSFERRED TO THE 649
626.1	141		Off Street - Establing Stateway Transition REQUIREMENT NOW TRANSPERRID TO THE 649	Advanced procurement of Editorians Solvenian Materials and Ecoloment. Rev A gives that Ecolom on sourcing of materials.	Ensure Gateway Transition materials are identified and stoned separately from other Transitiops on Project.	OR Solvet	Cause 60	SM .	OK.	03/04/3013	INF CORR 8561	25/06/2002	N				184	01/06/2012	CES	01/06/2012					TINC 636 NOW WITHORAWN REQUIREMENTS STANSFERRED TO THIC 648
656.2	141		Off STIME - LANDSING - GARWAY TOWNSON RECORDERENT NOW TRANSPERRED SID TING 648	Advanced procurement of Econology Salesway Males as an el- Economies E. Nev B pares out Phaglorin Eighting.	Ensure Gaseway Erannasio maperials are complete and scored repair uping Blom object Transistops on Project.	Off Screen	Casye 80	SM	Ot									08/07/2012	CIC	58/07/2012					TIC 636 NOW WITHORAWN REQUIREMENTS TRANSFERRED TO THE 649
627	119	509	Dr. Sores - Pricesorum Guardiali	Delete profession guardial in the area outside St (071/s Church- DESION)	Guistical no tonger required	On Screet	Carre (I)	EL.	. 00	16/05/3011	INF CORR 8321	32.06.2002	, ν	11/09/3011	2 40-0	O N/A	Apria	31/05/3012	cic	11/01/2012	65.00	22/08/2012	INF CORR 8530	co	
65.6	186		MIDIA A BU'S.	Bing A Boto us to rate as result Unity diversions.	COM requirements	Site Wide	classe 80	řt.	Ot .	12/08/3013	INF CORR #516	06/06/2012	N					19/08/3012	CEC	19/09/2012					
629	138	N/A	On Screen - Section ID East the of Sharehard ST Boothan Road Anticons	Orders affecting Trace Disposition at 51	Utilities and purdered while exceeding the Trace But.	On Street	Schiou's 45	PL.	PAV		T	N/A Scheol #45	N/A Schedule 45	N/X Schedule 45	N/A3cNe/L/e45	N/A Schedule 85	TBA	PAV	PAV	200		A/A - Schedule (1)	N/A - Screenwar 45	AUX - Schedule 45	
690	100, 127	N/A	On Spreed Section 20 Sharpway \$2 (Acrost Place)	Option albitoria Lone Desiration et 25	Upiness or couraging, which encouraged the Track Blok	On Street	Scredule 45	PL .	3700		1	N/A Schedule (I)	N/A Screpule 45	N/X 5039/W # 45	N/A Sciedure 45	N/X SCHIZURAS	18A	PAN	PAV	the		N/A - Streight 4)	M/A - Scheldum 45	N/A - SCHOOLS 45	
631	101	N/A	On Street - Section to Shandwice St (Aprol Place)	Fine survey affecting within to progress escavating trace box	This Pages	O1 50 HHS	SENIOUNAS	14.	PMY			N/A Schedule 45	N/A Schedule 45	19/A SCN-20/e-45	N/A Schedule 45	N/A Scherule 45	184	thu	PAV	Me		N/A - Schedule 65	N/A - Schoolin 45	N/A - Schedule 45	
692	118	520	GRStreet - George	Depot Building water ingression resolution	Resolve water ingression around the building above and inspection pits.	Off Street	Classe 60	SM	UC	16/01/3012	INF CORR 8317	15/06/0025						21/05/2012	CHE	21/01/2012		16/09/2013		.90	LINGENT REUE - INSTRUCTED TO ISSUE BY CLC
132.1	118	570.1	Off Street - Depot	Depot Boliding water ingression resolution. New Alberta requirement to provide Wet Vac	Dewer requirement to provide WKEVac , now to be provided by bothlan flux	GB Street	L'aune 80	SM	UE.	06/06/2012	INF CORE 8566	N/A - Deletion						03/08/2012	CEE	03/08/0002		06/09/2013	PIF CORR 8566	(- Y)))	
689	138	N/A	On Sovere - Princes Se	Princes Sci Paneling, se punto on Finese in SQC Acces Sc	Poneng on Winnel St.	Ol Street	Schedule AS	PL.	100	22/00/2012	INF CORE 8329	N/A Stimes/#45	N/A SCHOOL # 45	N/A SCHOOL P PS	N/A Screen #45	N/A SCHOOL 45	10.0	21/05/2012	210	21/01/0012		N/A: Street of	AVA - SCHOOLS IN AS	N/A - Streeture 45	
634	129	N/A	On Street - Catholical Carle	Encavation and Austinstallation Sock Place to Catheliul Lane now by Uplices Contuctor	Address contract courses as they occur, and another work or to infract work.	Or lower	Screen 65	PE.	UC	22/01/2012	INF CORE 8393	AUA Screedule 45	N/A Scharce 45	N/A Schululu 45	N/A Schedule 45	N/A School or 65	184	21/05/2012	cic.	11/01/2013		N/A - Scheou'e 45-	N/A - Schedule 45	A/A - Schedule 45	
685	135,141	N/A	On Street - Drainage	On Soviet Or amage Scool	transition Dramage row being samed out by Usinthis Contrastor and that remaining with	On Street	School e 85	PL.	Uc	90/05/2012	INF CORR 8340	N/A	SCHEDULE 45	N/A Schedule 45	N/A Scheoule 45	N/A Scherule 45	180	28/05/2012	CE	25/05/2012		N/A - Scheoule	N/A - Screenie	N/A - Schedule	
			AND		Inhaco																	*	27		
ese	114	524	Olf Street - Lochilde Fluxe	Earl Cooling at Lothide Namus	Proximity of red blass to existing pipes and values are within QRE + 2m employee	Off Street	Cause 80	···	UC.	22/00/3012	INF CORR 8332	17/06/2002		see INC636 fav A	see TAC GIG Rev A	see TNC 636 Raw A	TBA	21/05/2012	OE .	11/01/2002	See TSC 636 Nev A	21/09/201	PVF CORR 8932		80.15 sCO
196.1	124	171-1	Off Spring - Countries Prints	Two Cooking according Avenue Rev A includes agree IQ from Scotton Week NOTE - ICO S71 and ICO S71 Nev A new Withdrawn	Proximity of recipies to ensuing poles and visites are within DEZ + 2m enveloped	OF Sowet	clause 80	SM	üc	25/04/2012	INF CORR 8356	23/06/2002	, v	5.16.2012	prosigned singles Conveniences from	£19,151.60	184	03/06/3032	CLE .	11/06/2012		69/06/2012	PHI CORR 8358		
687	197		Co Soviet	946 Pedestrian Crossing	Cleris habitation	O1 Servet.	Screou e es	ri.	OK - Claral Request	24/05/3013	INF CORE 8336	N/A - Schicule AS	N/A - Schedule 45	N/A-Schoole 45	N/A - Schedule ES	NA-X1654 IS	164	36/05/3012	CE	25/05/2012		A/A - Schedule 65	A/A School w 45	N/A - 30/4/04/4 43	Chiganic TINC (harvised by have by CEC
CAR	145		On Solved	Device understrain guardinal in the area outside Schannin Cholich i CONSTRUCTION	Suarchart no tonger recycled.	Or Roset	Screpule (S)	AL.	oc .	80/07/3013	INF CORR RIMS	A/A - Schedule AS	N/A - Horseywards	N/A-Screenie 45	N/A - Schedule 45	N/A - Schedule 45	TRA	38/053015	CHE	18/05/2012		A/A - Schwall W 45	N/A - Schedule 85	AUR - Schwillia AS	
639	144		Gri Street	York Pace - Notific Management Design	TM Design to allow commencements of work. York Place.	O1 50 set	Schioule 45	M.	o.	30/05/2012	INF CORR. 8346	N/A Schedule AS	N/A - Schedule 45	N/A Scredule 15	N/A Screeule 15	N/A - Schedule 45		01/06/2012	CEE	32/06/2012		AVA - Schwou's 45	AVA - Schedule 45	NOR - Schedule 45.	Advised to have by CEC
191	144		D1 50 Feb.	Environment Design Rev Approximate Incommentation	TM DESET OF ALLIER CONTRACTORISETS OF MOCK.	Ot Sexet	Schedule R)	EL.	O.	10/04/2012	INF CORR 8360	AVA - SCHOOLWAS	N/A - SKHRJUR 45	N/X-SCHOLW IS	N/A SCHARLIN 15	N/A -SERVINE 45	THA	11/06/2012	CEE	13/06/2012		A/A - Schadus 45	AVA - School III 45	N/R-STIMEUM 45.	
30.2	144		On Screet	York Place - Traffic Management Design, Rev 8 to proceed to 3x7 Insulant station	TM Design to allow commencement of work York Place	On Service	Sciedine 47	EL.	OK .	12/03/3012	INF CORR BARB	N/A: Stredule AV	N/A - Schedule 45	N/A-Schellule (S	N/A - Schedule 45	N/A - Schedule 45	THA	16/07/2012	CEE	16/07/2012		A/A - Schedule 45	A/A - Schedule 45	N/A - Schelule 45	URGENI THE FOR YORK PLACE
39.3	144		On 50 and	York Place / New CASCOM to complete Traffic signal/junction design	TM Design to allow construction to progress.	On Street	School e 45	řL.	α	14/06/3013	INF CORR 8515	N/A - Schiedule 45	N/A - Schedule 45	R/A Scheole 15	N/A - Schedule 15	N/A - School-4-75	TEA	13/08/2012	CRD	13/08/2012		AVA - Schedule 65	A/A-Schidule 45	M/A - Schedille 45	
699.4	144		On Screet	Fragres with Brughton St/Altany Street (Laffic signal Junction Inglementation, Tale all recessing action to be little the Inglementation of revised TM is York Place.	York Pare - Rev D TM Ingrenentation	On Street	Schedule 85	EL.	α	-04/08/3013	INF CORR 8561	N/A-Scherowith	NA SCHOOLEAN	N/A SCHOOLE IS	N/A - Schadula 45	NA-School 6	TEA	03/08/2012	CIC	03/09/2002		N/A - Schedule 85	AVA - Schedule AS	MIK - Schedule 45	
639,5	144		Q/ Sareks	POCK PIACH - CHANGE BOOK SAKES BIAT HIS GO ALONG VAI OBJURGE.	TM INCOMPANS	On Street	5c7edU/e/85	R.	UC .	28/23/3013	INF CORR 8275	N/A-SCHOUWAS	N/A - Schedule 41	N/A - S1246/GR-15	N/A - SCHROLIN ES	N/A - SKYNGEN KS	TBA	15/11/0012	CEE	19/11/2012		A/A-SCHALLE 85	A/A-Streetw 85	NJK - SCHOLON 45 :	
639 &	144		On Street	Kock Pace TM - Accitional Signage	TM requirements	Q1.5699E	School Mids	ft.	- OK	12/12/2012	INF COMP. 8611	N/A - Scholow AS	N/A - Schedule AS	N/A - Schedule 15	N/A - Schedule 15	N/A - 567465(# 45	TBA :	10/17/2013	CBD	10/12/2/01		N/A - Scheou v	N/A - Schedule 45	N/X - Screeu 6	
-/-																									

				Reacon For Change	On Street / Off Screet	Classe 80 / Schedole 45 sectroction	TAT Charge Charter	OC/UC/CR/SR	Date TNC (tring)	Settler Ref	Date Is Smale Due	Estimate Retirened N/V	Data Estimate Nazarent	Estimate Change Value (Design)	Estimate Change Value X (Construction)	feet Implications	nete i	CC/EST Appr Rep	wedler Compact C	arga	fished	TCO Getter Ref	N/V/CLOSED OUT	
140	585	Size Wide - Histories of University	Agreement on Method of Recovery for Unimag Impraise	Method of Recovery For Insurance Premium	SHWA	Circor 60	GE .	lik:	30/07/2012	INF CORR 8342	36/06/205	2 19	19/06/20:	12 N/A	TBA	Note	38/01/2013		1/2002 100 FOR CEC 3.71	PPROVAL	11/03/2013	NF CORR MAS	60	COST TRANSFER BETWEEN CHC AND BIRS, CHC APPRO
167, 226	682	Gri Street - Catheri al Lane	Conti- Refulbionment and Charge of Use to them sub-station of brising	Combustion TNC	On Street	School v.45	PL.	DC DC	12/04/2012	INF CORR. 8380	8/6		SORGULA SUNOW CLAUSE SO	N/A	SCHEDULE 45 NOW TO	M.	11/06/2012	CHE 13/0	-070	0.	22711/2002	NF CORR 8790		
200,770	777	2,010,000,000	To lets at Catheoral Lane. Acc - Following Demolition by Others of Existing Sollets at Cathedral			0.000	31	573	(25,10.77)	1.55VIII	(8)76	100		1777	CLAUSE 60	27)		2000	26.11	12	E CONTRACT		0.5	
147,234	630 Ray /	N Gri Screet - Cathedral Lane	Larre, New Bolls of Transpholoston. 100 GO Rev A Progress and practice of work, associated with the construction of the Cathelius Larre Seb Station (construction of the Bulls fig. Station).	Construction TNC	On Screed	School et S	PL.	9¢	New TNC-641	See TAC 641	54/4.	n n	ACHEOMICE AS NOW CLAUSE 80	N/A	CAUSE 80	W	03/12/2012	CEC ON	2/2002 FGD FDR CHC 3: 12	S SHOWE	64/12/0012	HF CORR 8802	у	
178		On Street - York Plans Semporary Stram Stop	Omit - Approx 80 multi-outpound track and associated temporary is affer management, ties regispers, stercess areas roles and polysoment consequence, or amage, roles maintings, Traffer Signals polysoment section. The Temporary of Years Stor.	Change of Scoole for Yard Place	On Street	Screenie 85	ML.	oc.	94/08/3015	INF CORR 8506	N/A Schedule 45	N/A - Schedule 6	N/A-Scholule (S	N/A	50(EDALE 45.)	BA	15/08/0012	CEC - 13/0	8/2003	840 45	/A - Schedule /A	WA Schedule US	ANA - Screedule 45	
			Add - Constant temporary Tran Stop and approximate the legislics, size desirating road and parenteent construction, drainings, coad-mail/rigs, temporary shallor management and faultic Signals to clear York Pace terminal Point all in accordance with PC Design.																					
146	571	ORSONE EXPOSES GAPAN	Comburgh Gardway Control (2011) 1. Tracking are Proving Works on the Scottsh Walter Steel 2. Excelection for any plusment of the Mismission Tank 5. Excelection and plusment on the Democratic Tank 6. Excelection and Post-declaris for the permission Radio Matel	Construction INC	Off So wet	Cuure 60	w	oc	19/06/3013	INF CORR 8364	39/07/206	2 19	91E 577 REV B	SEE S72 NEV B	563 572 REV B T1	M.	18/06/2012	CHC 18/0	6/2012 SEE S77 REV B		13/06/2012	NF CORR BASE	9.0	Cause 80.15 SCOINNEC
148	570.1	Off Street - Combuge Caleway	Londough Submay Condruction - proceed with the procurement of the Echnology Submake "Stope Solution" all as per the IPEA drawings for the earth retaining solutions.	Construction TCO	Off Stivet	Crecor 60	9.	BC BC	ISSUED AS YOU	ISSUED AS TOD	HSUED AS ECO	,	SEE 527 REV B	56E 572 KEV B	SEE SPEREVE TO	м	25/06/2012	CEE 35/0	6/2002 566 577	ive 2	5/06/2022	NF CORR 8588		Cause 80.15 3CO Insued:
148	572.2	Off Street - Edinburgh Gateway	Understand the Editoriage Galleriage wants an per BBS report diabet 65/09/2002, electricistics during meeting on 20/09/2002 and the review Construction for the services of the period o	Progress with Edinburgh Gateway works	Off Server	Ciecro (g)	8.	bc	ISSUED AS TOD	159URG AS 100	18-UED AS TCD		10/08/201	E126,166-0	13,388,824 A3 N	91#	27/04/2012	CRE 23/0	6/2022 A3	416,010.40 3	8/08/2022	NF CORR 85.96	00	Now includes, Design Code, State previous TNC's
98	583	Gn Street - On Street GOL (1074s	Fire Visitor On Scient (UVV)	Construction TCO - Finla's are gart of Schedule El Existing	On Servet	Cause 80	Rd.	DC .	22/06/3012	INF CORR 8453	M/A - already provided.	· · · · ·	29,03/30:	12 N/A	£25,422,00(F)	BA .	27/06/3075	CEC 25/0	6/3603		23/06/2012		cq	AGREED PRIOR TO ISSUE, ANTICIPATE HO ISSUES, ALTHOUGH WILL NEED TO UP REVISEOUSE OF PR ON CLASH WITH VERIFY HOUSE ROOF.
263, 261, 16 263, 265, 25 220	Z AVA	On Street - Princes St	Colesianding World	Client historistich, to meet 25th Julie dead the	On Street	Scheolie 85	EL.	,01	06/06/3015	INF CORR &MA	N/A - SCHIPOWAS		N/A-Scheole 15	N/A - Schedule 15	N/A - SEMENUM / D	64	11/06/3012	CEC 11/0	6/2022	43	A - Scheouw In	N/A - Servesione 15	N/A - Screen 6 45	CHREAT HSUR THE EMAIL HSURD 1/6/12 UNDER LETTER 6/96/2012
149	MA	On Street (Princies St	Capital Pacition For Street Lighting - Construction	Design Charge	Of Street	Scredule 45	粒	00	12/06/3013	INF CORR #183	N/A - Schieble AS	N/A - Schedule II	N/A-Schedule No	N/A - Schemie SV	N/A Schedule 45	M.C	11/06/2012	CEC 13/0	6/3022	M/4 65	A - Schedule A	N/A (Semectum) 83	N/K - Schedule 45	
156	577	O1 to eve	Origin word for VE. or Carringways become under 8, km a few ignormed	Orogi Charge	On Street	Classe 80	粒	90	12/04/2012	INF CORR 8376	06/07/201	2 4	SEE GEF REV B	SEE GAY REV D	N/A III	tA.	11/06/2012	\$11/0	6/2002 INCLUDED S	7810	12/06/2012 (1	NF CORR 8578	¥	
150	577.1	On Soreet	Design wors for VC on Carriagemay Reconstruction & Kerls Realignment Bas A - Specific requirements to Sc Andrew Square North Cycle St to north of West Register Science	Outgo Charge	Dr. Served	Clause 60	F1.	oc	10/03/3012	INF CORR 8438	03/08/202	2 Y	SEE GAS KEV B	SEE GAT REV B	N/A TI	BA .	09/07/2012	CHE DRYO	P/D012 INCLUDED S	7.60 (0	\$0,07/2012	NF CORR 8438	(Y)(
150	577.1	Gr Street	NEV 8 (Integra wave for VE, on Certagerway Reconsolution 6, Kens Real growth. The Art Section (Integration for Section 6,	Design Charge :	On Server	Cause 90	PL.	DC.	06/04/2013	INF CORR \$469	90/08/001	y v	28/08/20	52 See Update \$41 TCD 527.3	A/A EI	EA .	30,07/8012	cec asyo	P/OCES INCLUDED S	71640	06/08/2012 1/	NF CORR BING	(A)	
150	577.8	On Street	Review of Road Design , went side of South SEA/cover Street	Design Charge	On Server	Cause 60	NL.	96	14/66/3012	INF CORR 8508	(07/08/501	2 1	tee SCG 527 Rev G	see SCQ 577 Rey Q	N/A. II	M.	06/08/0011	CBC 06/0	N/2002 PROLUCED'S	7 1610	14/04/2012	NF CORR 8509	6 7):	
150	577.4	Gr Novel	Review of Rizer Design , west side of South St Andrews South - ECO to agree extinsize ECO to date.	Design Change	On Nove	Case 80	41.	86	84/08/3015	INF COME 8509	07/05/301	2 *	24/08/20	22 428,486.2	TAVA TI	64	68/10/2012	CEE ON/S	0/5682	£25,886.78	11/10/2012	PUF CORUE ASSO	co	
150	577.5	On Salvet	Fusther Development of Design for West side of 50 Andrews Notice.	Gesign Change	Or Street	Ciscor 60	N.	(AC	34/11/3012	INF CORR 8263	10/11/201	2 Y	SEE SCO 577 Rev	F SEE ECO 177 Rev	N/A TI	IA.	05/11/2012	CHE 13/1	1/2012		14/11/2012	NF CORR 8761		
158	100000	Go Sarwet	Forther Development of Design for West view of Sc Androve Source. TCO to confirm agreement of estimate. Capitat Position For Scient Egyting - Design.	Design Change	On Street	Cause 80	AL.	9C		INF CORR 8761	80/22/201	* T	00/13/00	12 A27,877.4	1 AVA 11	M	12/05/2011	CEE 02/0	A.S		29/06/2013	RH CORR 6851		
151	349	On Street - Princes St	Count Portion for Steed Upsting - Oksign	Decign Change	Dr. Street	Cucre 60	15.	bc	15/08/2012	INF CORE 8383	06/07/301						11(00/0011)	CEC 11/0	oksons		19/00/cors to	NF CORR 8000	55N;	
		Brank TNC, nurober not to be used in Follow.																						
152		On Sower - Princes St Brister	Construction	Cland his cotton to need 35th June dead ine	Dn Street	Schedule 45	M.	O)	15/06/2012	INF CORR #364	N/A - Schedule 45	N/N - Scredule At	A/A-Scholul IS	N/A-Schelue (5	N/A - Schwolche 45 III	SA.	16/06/2012	CEO 18/0	6/2012	45	A - Schedule A	W/A - Schediste RS	N/A - Screoule 45.	
159		G# Street - Trave-tops	Transcoa Snette: Installation and Fibrac deferment	Reduce Risk of Carnage	Off Screen	Case 80	SM	CR	11/06/3013	INF 8388	17/07/201	2 N		NA		6/1	18/06/2012	CAC 18/0	6/9002				\$11 HCQ 625	
158	625	Or and Off Street: Transpla.	Transparent Instructor and Police definition (Prosecution of Gen 1998)	Recision files on Christian	Or & Off Street	Casse 80	SM	00						N/A	11	M.	22/14/2012	CSC 22/3	0/2002		91/30/2012 0	NF CORR 8750	Y	
122	383	Off Street - Depot	Maintenance of The Depot Works to a Equipment	Depot Mantenance Services do not bein part of the inhastication Mantenance Services	OF Sower	Casar 80	a	OK.	26/06/3013	INF CORR 8406	N/A	,	N/A	N/A - Maintenance Cost	N/A - Maintenance Cost N	gra.	25/06/2022	CEC 25/0	6/3002	E45.633.41	26/06/2012	NF CORR 6408	co	-
156	583	On Steet - York Place	Provide IFC Grunnings in 0985 CRD former	Flanting Recoverage	On Street	Classes 80	14.	06	22/04/2012	INF CORR 8406	17/07/301	ž N	06/08/30	E 6,923.56	N/A		18/06/2012	CHD 15/0	6/3082		22,06/2013	NF CORR 8400	Y	TNC + TCO witherawn, no longer a reconsensers.
		Gn. Screen - Princes Sc	On-ecopie conserved exellening	Avoidance potentia Maintenance issue.	Go Spreed	Simplify 85	4	96									40/00/0045	CRE 80/0	6/3603				April	OQ NOT HELE THE 160 MARROY COVERS
116	632	Off Street - Murray Field Trans Stop	Acceptal CCIV & RA coverage - Installation Cost Only	Following mediation 2 his TWM's reported from transition practices to the ground from regulating another CCTV to be placed to cover TVM.	D# Sover	Cause 90	a	DC DC	20/03/2012	INF CORR 8499	03/08/301	2 7	34/30/2012	N/K	430,150.00	TRA	03/07/0012	CEC 05/0	7/0002		10/11/2013			DRAFF ICO with BAS for conversed proceeding with and PHP - PAINTRUSED
154		On Street Transition.	Transition Shallon Installation and Fibrout selection 1. REPORTO TNC 451	Person Roy of Cornege	On Howel	Cause 80	N.	CH	12/06/3012	INF CORN \$366	12/02/502	2 A	SEE TNC 653	N/A	568 ENC 651	SEE TAC EGS	25/06/2012	CHE 15/0	6/2002 SEE 196	651 34	SEE \$19C 652	SEX TNG 651	No.	REFER TO THE 651, OBTERMENT FOR OFF AND OF TRAM STOP NOW UNDER THE 651.
155	562	Co. Screet - Princes St	Scotton Water As to 11 Characters	Chart high schor, b) meet 20th Sura read ine	On Street	Calcon 80	粒	O	22.6.12	INV CORN 8400	17/02/501	2 8	SEE SCO 362 Rev A	SEE TOO SEE HWY A	N/A 11	64	25/06/2012	CEE 25/0	6/2022 546 90	SAZ KEV N	22,06/2012	PUT CORRESANDO	00	
155	582.1	On Servet - Princes St	Scotter Water As Built Curanings, TCD 162 Raw A, rained to agree economic supercond union TRC	Clent industrial to need 25th June dyadine	On Street	Cause 60	M.	CR	22.6.12	INF CORR 8400	\$7,07,001	2 .	28/08/20	49,276.9	90A E	M	08/10/2012	CEE - 08/1	0/2002	13.271 30	11/16/2012	NF CORR BUIL	CG	
		On Street - Shandwick Place	Shandwith Place Wall- Deletope	Transke Wors to other	On Served	Schedule (1)	PL.	UC	11/09/2012	INF CORE 8540	N/A - Schedule 45	N/A - Schedule At	N/A-Schedule 45	N/A-Scheole 15	N/A - Schedule 45 III	IA .	13/08/2012	CEC 13/0	6/2002	- 840	/A - Schedule /	WA - Schedule 1	A/A	

1110	MC No.	600 No.	Lication	Description	Reason For Change	On Street / Off	Classe #0/	TAT Change	Change Category	Date TNC	Letter Ref	Date Estimate Due	Estimate	Date Citimate Receive	Estimate Clunga	Literate Change Value	Time Implications	Tate fissed	Approved BY	Data	Agreed Colf for Approve	Date 100	TCO Getter No.	100 AETURNES	DE Community
						Acres 1	Schedole 45 protroction	Owner	Clarge Catagory DC/UC/CR/96	Date TNC (strong			Estimate Received N/V		Value (Design)	(Construction)		wete	CCC/TET	Approved or Rejected	OHERS CHIEF	fished		N/V/CLOSED OUR	
60.9	175		On Street - Sharphastic	Road Nigrage - Jorston Marior Pass/Melville St.	Road Concest Ameas	Qn Street	Screen eas	AL.	- Al	26/12/2012	INF CORR 8407	N/A - Schwiru's 4's	N/A - Remove 45	N/A - Screen, in 45	N/A - School w 45	N/A Schedule 45	North:	25/05/2012	CAE	25/06/2012		A/A - Schedule 45	M/A - Scholule 05	N/A	
660	176		On Sowed - Princes St	PrinterSt-Traffs Management	Traffic Management Update	On Sevent	Schedule 8)	R.	0	28/52/3012	INF CORR SELE	N/A-Schelule 45	N/A - Schedule (S	N/A - Schools 45	8/A-Screek's IS	N/A - Schedule AS	N/A - Schedule 45	03/07/2012	ÇED	03/07/2003		A/A - Schedule 45	A/A Schellule 45	A/A	
660.1	176		Gri-Street - Princes Sc	Princes SE: Traffic Management, Nev A maintenance of temporary CAT posts at Princes SEs and as	Mahtenance Requirements for Temporary CAT poets	O1 Server	5096645	n.	OK-	14/04/2012	INF CORR #511	A/A: School with	N/A - Schedule 45	N/A Schoole 15	N/A - Schedule 15	N/A - Scholule /S	N/A - Schedule 45	06/08/0012	CAD	06/08/2012		N/A - Schedule	in N/A-Schedule 45	AVX.	
660.2	176		Qn Salves - Princes Sc	Princes Sc. Trutte Management, New & Rendowl of Princes Sc Walking Signs for Cyclists	Mangerance Requirements for Temporary CAT	Os Striet	Schedule 43	ML.	CN.	02/20/2012	INF CORR 8657	N/A-SCHOUWAS	N/A - SCHOOL 45	N/A - SCHOOL #45	N/A - Schepule 45	N/A - SETROLIN 45	N/A - SCHRALW 4).	01/10/2012	CAS	01/20/2012					
					p04B.																				
661			Off Street - Gogar Roundahout Signage	Blank off the Trans Depot best on all lightage associated with the Gogar Roundwood, RA/Ealmoungh Besse Indenthange		OR Street	Clause 80	SM	α									03/07/2012							ON HOLD, NEED FURTHER INFORMATION ON REASON
663	168	500	Off Science - Seccion 20.	Exclusion for the Tourgrape (a) Solvey	Carry out check of fleyers.	Off Street	Cacre 80	SM	Öt	19/03/2012	INE CORR 8443	03/08/3012	Y	06	10/2012 SEE YOU 300 REV A	N/A	THA	06/07/9012	CHC	05/07/2012	SEE TCO 590 Ney /	11/07/2021	NF COAR SEE	50	80.15 8CO histopy
662	160	S60 Reiv A	DBStreet -Section 74	Exaltive formum - Topographical Survey	Carry out sheet on levels.	OR Sower	Cave 60	SM	, ch	11/6//3012	INF CORR BASE	03/06/201	Y	See TNC 662	82,546	IS N/A	TBA :	10/12/2012	CHO	10/12/2012	12586.9	11/12/2001	NF COAR RELO	ÇQ.	600 hased with agreed value, and towers TNC 624
663	121	588	GBSs sec - Depot	Purshase of Heras Pensing surrounding Mini Text Tracs at Gogar Depot.	Preventacces to notified back during from Yeading and Commissioning	Off Street	Cause 60	SM	UE .	16/63/3013	INF CORR BYST	N/A	¥	Na. 5.2012	N/A	46,023.8	E Norw	03/07/2012	CLE	03/07/2002	26,423.81	16/07/5023	22 INF CORR aro.4	. Y.	
661	200	193	Off Service - Grigar Carcin Assens Boar	Additional Area of High Triction Surfacing	Construction Works following Road Safety-	G# Sores	CHUN 80	a	00	06/08/3011	INF CORR 8563	01/10/000	×	- 06(10/2012 N/A	NEETCO SALE PRIV		09/08/2011	cuc	09/06/2012	SEE TOO SHE Pey /	06/08/2013	2 MF CORR 6562	- 10	
664.1	209	591 Pay A	Off Street - Gogue Castin Access Acced	Applicate Area of high Friction Surfacing, ECO 561 New A cased by	Construction Works to lowing floor Safety	Off Street	Cacre 90	0.	00	See TNC 664	san 19/C 664	owe TNC 564	see TRC661	see TRC 664	6/A	43,246.3		22/90/2012	OE.	22/90/2012	2126.3	06/11/2017	12 PMF CORR 6756	co	
093	SV2			apertoga	Aud t		0.000		1.50	EANIMOTAL		- 10 m	DOMESTICS:	1000100000							157577			O.R.	
665	184		On Solvet Princes St	Percoval of Princes Screet "plug"	Additional was to required to decommodule, equipment required to believe the usua.	On Roset	Screpule 45	RL.	Ge	94/08/2012	INF CORR RIGH	N/A SCNOWAS	N/A - Schedule 45	N/A-Scheolie ES	N/A - Schedule 65	NA STRONG	TBA	18/08/2012	CIE	19/08/2012		AVA - Schedule 65	w A/A - Schedule AS	ASS SCHOOLS 45	
665.1	164		Gri Solveet - Princes Sc	the course of Ever Price should be modified to reflect that the signed route cuffirm Queen St. will be via NorthySouth St David Steet and Princes St.	Ace to rail works required to decommodurate uponent required to facilitate the plug.	On Street	School wids	M.	i i i	21/04/2012	INF CORR 8508	N/A Schiculu 45	N/A - Schedule 45	N/A-Scheole (5	N/A - Schedule 15	A/A - Schedule 45	IBA	30/08/2012	CAE	20/08/2002		N/A - Schedule 45	e N/A - Schecule 45	N/A SCHOOL 45	
665.2	101		On Severt - Pulnoise St	Semoval of Printers Screen "unity". Here & Purcher works requiring exact of one.	econoust incress to pergine the rule Vitational, works cade pad to decousing to	On Street	Schedule 45	AL.	. GE	26/66/3012	INF CORR 8698	A/A Schulewas	N/A - Screen as	N/A-screpule 4s	N/A-Screen 45	ALA SERVICE AS	TBA	\$0,08/2012	CED	15/08/2012		A/A Schales 45	e N/A Schelle AS	Alta - Scheiche Als	
666	179	589	Off Server - Section SA	Provide a Pediati fail Gale rest to the VentUn access gate at the Social Depot	Request to Provide Padent lan Access.	GR Street	Cause 80	SM	- 66	26/03/3013	INF CORR 8468	14/08/200	¥	06/	15/3012 N/A	£4,900.6		36/03/2013	cit .	16/07/2012		19/62/2012	12 INF CORE 8468		INF CORE SIGE (80 15 ICC)
666	179	.093 rev A	Off Forest - Section (A.	Provide a Pagesta an Gaser liking to the Verbick access gate at the Social Depot	Request to Provide People of Access	Off Street	Cause 80	SM	ÚC.	19/00/3012	INF CORR 8468	14/04/250	, v	06/	13/3012 N/A	\$4,906.6	TBA	17/12/2012	cic	17/17/2012		18/15/2012	12 MF CORR 8892	- 11	
667	170	584	CIRSO HRE-SUN-WIGH	Car off Service to respond to Network fail Technical Opinies and therefore boxes on the ETN.	Set up can off service to deal with ongoing fisceups fail frechical Coolies and Interface to see.	OF Sorest	Curre 50	Si.	(AC	11/63/3613	INF CORE 8446	TIME CHANGE THE	¥	O)	38,456	9 N/X	ThA	06/07/3012	CEC	08/09/2002		11/09/2013	12 PMF CORR BANS	(V).	TRO/ECO by Car Off Service to deal with Network Rail Guellin, some flere Intoriectly all cashes, extinuels chould be reduced to E.St., remainster in all ocated to TRC 611.
667.1	170	381	CIB Street - Site Wide	Call off Service to record to fetwork full Technical Guesian and Intelligence on the ETN. Nex A. Up its (worsel value to \$150)	Secus call off service to deal with ongoing. Retwork fail Technical Classies and Interface (socies.	OR Street	Clause 80	54.	- OC	06/06/3013	INF CORR 8569	TIME CHANGE INC	N			N/A	184	03/08/3012	CHE	03/08/2012		06/08/2013	12 PM CORR 8563	. v	Not to extreet with increased to £ 25k.
667.1	170	386.2	GB Street - Ster Will'e	Call off Service to reacond to Network Fall Technical Openies and transface bases on the ETNs New 6 - Add transfaceper teen to reque traffic fight.	Cash with stalk acress to Morgan Shoral's cite office	OE So wes	Cause 60	Si.	OC.			THAN CHARGE INC	Y	064	13/2013 AS-0924	2 A/A	TBA	31/08/2012	CHE	15/08/2017				(Y).	
668	171	503	On Screet - York Place	Destrains of Infrace works for Franchis to Environces.	Programme Mitigation and Cost Engineering Programs	ONSTREET	Cause 90	PL.	α	12/03/2012	INF CORR 8447	AVA ASSEED	×	N/A AGREG	N/A	61,013,255.0	THA	16/07/3012	cuc	16/07/0082	#1,015,255 A	12,63/2012	12 PMF CORR 8647	co	INSURE THE FOR YEAR PLACE, CECAPPROVED TO 155-XE
664	130	622	Off Street - Section 8	36N Kemeral War is - Saciffi at New Inglister Land	Secret blowing SCN etwicon works	Off Scient	Cause 90	St.	ike .	12/03/3013	INF CORR MISE	15/08/500	*	10/	50/3012 M/A	\$10,000 \$	TEA.	16/07/2012	GE.	16/07/2002	16569.0	18/12/2017	IT PIF CORR 8837	, N	
620	177	162	Cn Screet - Princes St Road Saltety Audit	SOS Response to 65A for Princes St.	Required to environ CEC to conclude Road. Nahely Audit.	On Novel	Cave 80	粒	a	06/08/3075	INF CORR BASS	35/08/200		ME SCO MO Nev A	SEE BOO SEE RWy A	NA	184	39/07/2012	CRE	25/07/2012		66/08/2012	2 PHF CORR BASS		ISSUED AS CURLISE 80 15 RCD.
650.1	177	NE I	On Screet - Princes St Road Safety Aud 8	\$05.50x,00110 to 555, for PTITOR 55, TCQ 563.60x A 57 Agree Inclinear amount superinged under TRC	Incover to emission CEC to somewhole Rose Safety Assis	On Select	Cause 60	PL.	0.	06/08/2012	INF CORR 6468	30/08/201	Y	64,	96/2012 E1/630.)	2 6/A	TRA	08/10/2012	CHE	04/10/2012	82,619.7	11/35/2013	PM CORR 8682	ca	
671	102	567	Off Street - Scotlar	Scotial free Car Park Seturb, Note:	present un authorised access to car park	Off Street	Casse 80	SM	UC UC	22/07/2012	INI COSS SUL	WHAT THE					The Control	23/07/2012	TP.	2204/202	Vote of terri	ALORDO:	The contract		THIS AND TOO IN GRAFT CURRENTLY UNDER DISCUSSION
	107	608.1	Ou polest - Overyide desifix	Sendon and divine Org. ULS0220-01-078, 00026, U. 18, 20, 25 and 26 to 1500-176 light good septimed to audit delifies. Benine and nevine Org. ULS0220-08-078, 00016, 17, 18, 22, 23 and 24 to 500-176 light good reducted to audit delifies. Nav. A TCO 425 in neutronal value of E.S.	Insulting the current polypoed design. Significant strikes broaded within this was making the rument proposed design.	Of Street	C9U#80	N.	OC OC	See TRIC (272 + TCD 668	See TAC 672+ 100 668	599 \$19C 672 + 1 CD 608	N			N/A	TBA	anyoliyasili.	-40	velorisons	10.9.12 809.00 for OIC Approval on 8 90.12	11/15/2012	12 INF CORR 8675	*	
672.1	207	608.1	On Monte - Drainings Onligh	Review and review (Fig.S. ULL80130-01-049) 00016, 12, 18, 22, 23 and 28 to show the laptor required to solid safetive. New 8 TCD with reference of a 15 to 15 to 16 to 17 to 16 to 17 to 18 to 17 to 17 to 18 to 17 to 18 to 1	Significant out the constant within this area mounting the current acquired theigh.	On Solved	classe 90	EL.	uc.	Seis 1797 522 s 3 CD 608	See TNC 672+ 100 668	See 1NC 670 + TCD 608	N N			N/A	TBA	12/11/2012	cic	13/11/2062		14/11/2011	12 WE CORE 6768		
629	76	508	Side Wide	Carcel Great by GLE gales regioned by section Secondary Preser La	Truck no longer goes beyond for s Place	Off Screen	Cause 90	GE .	- 01	19/08/3013	INF CORR 8500	N/A - Estimate aiready provided	N/A	25.7.2012	6/4	441,780.0	Note	23/07/2012	CHC	23/07/2042	-E/1,780.00	13/08/2012	2 NF COAR 6502	50	
634	169	560 Rev A	Off street	Today acres convention find evenue - 003004	Provide CAG and pot oranings	Off Street	Cascal 80	St.	UC-Unbresen Crosmources	06/04/2012	INF CORR \$150	NOVON/201	Y	050	13/2012 SEE BNC 64	2 NA	TRA	30/07/2012	23.0	80/07/2012	SEE PINC 664	566 BNC 662	55 PEE BAC 665	2 00	CD score with agreed value, also covers TNC 660
675	192		Scot al Depot	Remove the controller account the water maker at the Scot of Depot.	Obtain Scottish Water approved and sign off the	Off Street	Cause 60	SL SL	uc	14/08/3012	INF CORR 8513	37/06/201	(1)	12/	15/2013 N/A	1155673		06/08/0012	CED	06/08/2012				N	
676	194		Gr: Spreec - York Prace	Provide Drawing to accommodate world at Lord Bodos Bar	CIC signed remedial /heprovement works to land bodys fluir	On Service	Ciscre 80	FL.	OI.		INF CORR 8527	13/08/001				N/A		06/08/2012	CHE	04/08/2012					
637	183		Buses on Earts/ovenie Gressent	Please arrange by have 20 mg/trounders grained on Landdraine Createst	Advisory 20 man speed restriction	On Street	Schedule 65	RL .	O.		INF CORR 8503	AVA - Schedule AS	and the second	N/A - Schedule 45.	N/A-Schedule 15	N/A - Schedule 45	TRA	06/08/2012	CEC	36/08/2022		AUA - Schedule 45	le AUX - Schedule AS	AM - Scredule 43	
678	100		York Page SM	Temporary Traffic Management Design to seed bus Specian Access Quer	Assessing impact on Tram Project of areving access to the Bus Station open	On Street	Scredule 45	rs.	OI.	34/04/2012	INF CORR 8000	N/A : SCHERKES	N/A - SCHENIKAS	N/A - SCHOOL # 15	N/A - Schedule 45	N/A - SCHOOL #-15	TBA	11/01/2015	CED	13/08/2012		N/A-SCHAPUN 43-	# N/A - SCHIESE 43	NAT SERVICE	

THE PER	No. 1	KO No.	Matter	Detailption	Reason For Change	On Street / Off	Classe 40 /	TAT Change	Change Category DC/UC/CR/96	Date TNC Iting	Letter fiel	Date Is smale Due	Estimate Returned N/V	Data Estimate Res	sived .	Estimate Clungs	Estimate Change Value	Year Implications	Tale fisced	Approved BY	Data	Agreed Cost for Approve	Date 100	TCO Getter Ref.	TCO RETURNED	Comments
						Street	Schedole 45 protruction	Owner	DC/UC/CR/96	printed			Bartanine N/Y			Value (Design)	(Contraction)		n-cuc	CLC/INT	Approved or Reprised	Contract Charges	fished		N/V/CLOSED OUT	
678.1 1	10		You Pace IM	Temporary Traffic Management Design to seed Bus Station Access Quent Rev A Two-way access for plear Christman shoughing period	Assessing Impact on Trans Project of Reguling access to the Bus Scation open.	Or Street	SCHOOL RAS	AL.	Ot.	21/04/2012	INF DORR 8529	AVA - SETMINUM AS	N/X - Temporal 45	N/A - School/e 45		N/A - School #5	N/A - Schedule 45	ABT	30/08/2013	CAC	20/08/2012		A/A - Schedule 45	M/A - Schellule 85	AVR-Screenia AS	
678.2 1/	6		York Pack SM	Terracovary Traffic Management Design to seed Bus Station Access Down Rev & Commence with any praffic management enabling and	Clarity traffic modelling requirement	On Street	Schedule 45	PL.	- OL	04/08/2012	INF CORE 8552	N/A - Schedule 43	N/A - Schedule 45	N/A - Schedule 45		N/A - Schelule 45	N/A - Schedule 45	TIM	03/08/2012	cis	03/05/2003		AVA - Strapula 45	N/A - Schedule: 45	N/X - Schedule (5)	
678.3 1	60		You Pace 1M	Ingresentation wors: Temporary Traffic Management Design to IMMP Bis Station Access	Suggestions from Bus Station Manager	On Street	Schedule (S)	RL .	- OK	13/06/2012	INF CORR.8576	N/A - Screeuw 85	N/A - Schedule As	N/A - Schedule 15		N/A - Schedule 45	N/A-Street/e-/G	TIA	10/08/2012	CEC	10/08/2012		N/A - Schedul	w N/A - Stredow	N/A - Schedule	
-		500		Open. Nev C tendes to suggestions received from his Station Manager		Off Sowet	Cause 80				INF COMM 8008	09/08/200			14 03 0400				13/08/2012	-	TIME OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA	ICO local INF CORR 877	45	2 PH CORR BIOS	45.	revised ICO with percuration for CIC approval (by 11/2012)
179 1	*	001	Legat .	IA Non Complianta	Prevent Water Magnating	UR NOWE		***		ni/od/mrs	Int Light sixt	97/10/2/04			58/30/3015		60.00		19(09)2012	OE.	19062062	Ed side in Com arr	Property	THE CONTROL	100	Lawrence of the second
679.1 1	81 60	01 Rev A	Oward	Man Complete	Prevent Water Stagnating	Off Street	Classe 60	SM	MC.	14/04/2012	INF CORE 8508	07/09/2043	Y		29/20/2012	. 0	60.00	None	18/08/2012	CEC	13/06/2017	£0.00	14/08/2012	2 INF CORR 8508	60	
680 1	10		On Street - Coates Creycent	but Running singly fare	State-holder numagement	On Screec	Schedulikits	H.	-CK	13/09/2012	INF CORR 8540	AVA - Schedule 45	N/A - Schedule 45	N/A -Schedule IS		N/A-Schedule 15	N/A - Schedule 45	TEA	18/08/2012	Cfc.	13/08/2012	3	N/A - Schedule	W/A-Schedule	N/A - Scredille	
441		601	On Ross - House ing Onsign	Francis Houseing Design For York Place	Design for Communities Constraint				-										18/08/2013	cac	14/04/2013		0	**	10.	THE TO BE WITHOUTHAN COVERED UNDERTHE CHEREVE
662 1	76		On Solved	Type 2 Diversions - Screet Lighting, How? Signage & Truff's Signa's Score	Avoid disruption to Influence as a lessel of Utilities conflicts associated with the above	On Street	School #45	PL.	30	14/04/2012	INF CORR 8507	A/A Schebwis	N/A - Schedule 45	N/A - Schedule 15		N/A-Schedule 15	N/A - Schedule 45	TEA	15/08/0012	685	13/08/2012		N/A - Schedule	w M/A - Scheduler	N/A-Stredúle	
680		601	City Street	This sizes to locate 122mm Gaussian bibs of gelost	To confirm to SW the pipe is publish DRI 2 and	Off Sower	Cww.so	SM	96	18/08/2012	INF CORE 6583	12/10/201	2 1			N/A			15/08/2012	ar	13/08/2002	TCD FOR CSC APPROVAL	18/09/2012	2 INF CORR 9582		
			7		not in the coule of trace / DLE foundations		To a series		1115							A						20.8-12				
664 11	95	621	Off - Street	Oursaged childy though cover visits Provide into seafour on Emphasi Road	this are consigned states caused by CAP gentless wagpt Enable consists of of Unday Road by CRC	Off Street	Cause 80	a us	UC OI		INF CORR 8501	15/09/200	y v		06/10/3012	A/A	£598.27	Norm	13/08/2012	CIC	19/08/2002	4838.27 SEE ECO 609 REV A	23/30/2012	2 INF CORR SYS	- CO	
685.1 15		609.1	Linksay Road	Provide Information on Lindsay Road, ECO 605 Nev Alto agree Charge.		OR Street	Casse 80	MA	01	Saw TNC 685		Montan			. 100 809 4034	80,000,00	-		1900000		anyoneous	A7,003.94	411,445	2 MF CORR 8781	00	
																								1		
686 II			Ox Sowet	After texts heat CEC Connection Manhore	Maritore Cover and Numer Inspect the learning	On Street	School e 45	M	- 00		INF CORR 8544	A/A-Schedule 65	111	N/A Schedule IS			N/A - Schedule 45	TEA .	13/08/0012	CED	13/08/2012		65	M/A-Schedule 45	NJA i Schedille 45:	
667: 10			Gn Sower	Revision to Appendix 11/1 for Kerb Type Descript of bookers ouglige Aprol & Chaps Crescent	Introduction of new Scotton Whitestone Kerb Value engineering - de scoting work	On Street	Schedule 45	M.	000		INF CORR 8558	A/A-Schedule 45 A/A-Schedule 45	//	R/A Scheole 15 R/A Scheole 15		N/A - Screeule 15 N/A - Screeule 15	N/A - Schedule /6	TEA	27/08/0012	CED	27/08/2012		AVA - Schedule 43: AVA - Schedule	A/A Streetuw 45 A/A Streetuw	NJA - Schedule 45- NJA - Schedule	
669 21	19	608	Onstreet	Provide CRD resource and engineering support to revise drawings to	Significant of thesi ocuted within this area	On Sower	Casse 80	M.	000	100	INF CORR 8581	09/20/2012	N	,			N/A	TBA .	27/08/2012	CIC	22/08/2012	YCG for CEC approval on	13/09/2012	45 INF CORR 8581	45 Y	
				snow ere report required for fload Sign Bases, Serent Light Columns: Snattic Signar Prines, Oursing and Chambers so avoid splitters	mosters ere turner diff energy																	106.12	1000			
689 1 2:	13	609.1	October -	Provide CAD recover and engineering supports review drawings to show the laptic required for Road Sign Bases, Sower Light Columns, Fulfit Signal Poles, Ducting and Chambers to avoid utilities. TCO with Nacrosof advan	Significant critical notated works only area recently the current IPC design.	O1 Serves	Cause 60	Rt.	06	689 + TCO 609	100 - 100 - 100 100 - 100 - 100	see howe TNC 699 + ECD 609	N				N/A	TBA				100 for CEC aggrova on 8 20, 22	11/10/2012	INF CORR 8674	Α	
699.2 21	13	500.2	Gr sbeet	Provide CAD resource and engineering support to revise storeings to	Significant of their located within this area	On Served	Clause 60	FL.	UC UC	see hour TAC	see Suce TAC	ine 150/e TNC 689 x TCD 609					N/A	TBA	12/11/2012	CKC	13/13/2002	ECO for CEC approval on	14/11/2012	INFCORR 8758	, y,	
				increase layout required for Road Sign Bases, Scient Light Columnia, Endfor Signal Police, Ducting and Chemises to avoid sofficies, New B Inferced value of 8 Year to care to Proper 2	houseful the curant IFC design.																	830.12				
690 1	99	626	G# 56 sec	Remedial work consulat West Short The Harman NG Depot	Bring content flet across Rail Infrastructure do a standard which will allow BBS to establish sectioned record as a result of the Industry Works.	OB So sec	Schwolie 80	SAI	Se.	90/08/2013	No CORN BORR	25/08/3012	, and the second		09/30/3013	Nyk	D6A1127	10.4	27/08/2062	cic	28/08/2012	ME ECO 606 REV A	30/08/7012	2 PRF CORR 8539		
690.1 15	99	606.1	Off Street	Berned's work to yeasily West Shunt The Haynes set Depot	Bing current Network Rath Inhadration to a standard which will allow 855 to recofy any sectioned paged as a resolt of the Infrato World.	OM Seven	Schedule 90	SM	00		NE CORR 8539	25/09/201	¥		03/10/1012	N/A	176,111.27	N/A	15/10/2012	cic	15/36/2003	£26,413-27		2 WF CORR BYOZ		,
682 20		605	On ables.	Cathedral Larie re-design Proteination of additional researces around St. James Centre car park	Regulation of conspication stocks Present persons reversing into carpains	On Street	Schedule 45	FL.	OC OR		INF CORR 8555	01/30/2003	N/A - 4/ harring #1	N/A-Scheoue 15		N/A - Schedule 50	N/A Schedule 45	THE	03/08/2012	CEC	27/08/2002		05/09/2013	2 PM COR 8555	y	
690 2	06		Otsbeet	Footbally and secong reinstatement along short sheether.	Enough the exit lane Family attended End prainty Defity Oversion Wood	On Street	Screev's 45	ft.	700	06/06/3013				N/A - Schedule 15		N/A Schedule for	N/A Schedule 10	TBA	03/08/2012	CEC	03/08/2013					
664 21	10	602	On speed	Trieffic signs on scope to West St. Aller vin St.	Remove Systems De scope from TNC 560 and	Q1 Serve	Classe (6)	PL.	Ø.	25/09/2012	INF CORR 8616	27/69/2013	×		01/10/2012	N/A	£109,400.00		25/08/2012	cic		TCO for CLC approva	11/10/2011	2 NF CORR 6683.		
685 21	17	613	C#Street	Earline Access Edinburgh Aryant	achieve serily agreement on saving on ETN. Edinburgh Airport have requested the tar	D# Street	Classe 90	SM	90	18/09/2012	INF CORR BORR	12/30/2031	2 N		A CANADA CALA				03/09/2012	CEE		R SO 12 TCO for CEC approve				
686 21	16		C#5treef	As built crowing to SSN was a between Ingridon para and order and	remain so they have access for their parties. Provide New Inglistors with a copy of the Av.	Off Street	Circus 80	SM	W.	12/90/2012		06/11/2081	2 N		_	-			08/10/2012	CEC	08/10/2012	1 30 2012	-	_		
667 2:	ti		OT STYM	Eastfeld Avenue Bernedick to City of Ennate embland Excesses	Built. Cond-in particularity statement of the flootway on O Burn Terrack with remedial worst that are required to the OLC Burnfation.	On Service	Cause 80	r.	W.	23/06/3012	INF CORR 8626	N/A - Scheoule 45	N/A - Screenie 45	N/A - Schwick #3		N/A - Se hedule 65	N/A - Scheol #-45		03/08/2012	280	0.8/08/2/003		N/A - Schedule 63	65	N/K - Schedule 45	
669 1			On Noved	Removal of Contaminated Material in SPE	Removal of Continentated Material	On Street	Screen, e.45	R.	PAV		A/A - Screecie 45	N/A - Schenule RS		N/A - Scheoule ES		N/A - Schedule 45	N/A - SCHOOL WITS	TRA	N/A : Schedure 45.	PAY			AVA - Schedule 45	M/A - School in 45	N/A - Schedule 4)	
200 2			On Sower	Pagentian walkey from Hayman and Species Hope Shield Construction World	Provide Securities TNC Bord Design	On Street	Screen was	N	OK OC	7/8.12	INF CORR 8566	N/A - Schedule RS	N/A - Schedule 45	N/A - Schedule ES. N/A - Schedule ES.		N/A See 190 571	N/A - Schedule 45 N/A - Schedule 45	TEA	10/08/2012	CHE	10/08/2013		ASA - Senadula AS AVA - Senadula	e A/A - Schedule 45. e A/A - Schedule	AUA - Schedule AS - AUA - Schedule	
70 t	12	614	Off Same	Includement was statute Arrivol	Periodal and the agreed with Editoria	Off Street	Casas (6)	SM	Ot .	30575 m	INF CORR 8586	12/30/2001	2 N	INDEX MAINTE		garage.	A POTENTIAL	184	10/08/2011	CALL	10/08/5005	TOD for CEC approve	6	65	65	
703.1 2:	15	485	Cit Street	Reinstablinent works at the Anjoid	Arpert Period dement as agreed with Epinopage Argori	Off Street	Casse 90	SM	O.								- Marcon and		36/11/2022	CEL	34/14/3003	W80/0012				5000 000 T 500
.000	16	AXILIP	CR50vet	Eastfeld Avenue Pedestrian Crossing	Maching receive of current covering some as requested by CEC.	Off Street	Casse 85	SM .	iic	THE BOOK STATES	INF CORR 8587	13/30/2063	2 Y		13/20/3013	N/A	429,544,58	TEA.	10/09/2013	QI.	10/08/2042	NO DI CEC ADDONA NO DI CEC ADDONA			1,4	90.15 (CG to CEC
203 20	09	610	Off Street Off Street	Eacted Avenue Pedestrian Crossing Person Switch Rail at Depot	Modify gradient of current croking colint, as requested by CEC. Switch Fail Damaged	Off Street	Cause 95 Cause 95	SM	GC GC	ASSESSE	INF CORR 8587	13/30/2061	2 Y		12/20/2012	me.	£24,564,59					80.35 ICO NUME			9	aco with agreed varies
203-1 2r 204 2:	08	610.1	Off Salest On Salest	Requir Switch Rail at Depot Replexies of Sc Angree Society East		Off Screet		FL.	0C 0C	27/06/2012	INF CORR 8579	23/30/2001	ž v		08/13/2012	1/4	A/A 4851.00		19/11/2012 01/09/2012	CIC	19/13/2062		20/11/201 13/08/201	2 MF CORR 8278 2 MF CORR 8579	CO	Note: approved by CEC as revision to ENC 647 (Rev D) and
305 8	3	636	CRESS News	Re-cooling words over to AWR ferror encounting into the Lob	Ne cards word adding	Off Street	Cause 80	144	×	26/04/2013	INV CORR 8687	53/10/2001	2 ¥		04/15/2013	213,669.05	NA	TBA	35/08/3032	CHE	25/08/2012	£13,668.05	14/11/000	2 PH CORR 8763	00	TCO 577 (Rev O), 685 requested to an fair to new TRC and TCO reprotes: Letter now issued to with rowe this TRC and TCO on 18 at 12.
706 707 21	7		State 176, number not to be used in Future.							15																
200 20	22		G: 50444	On Solvet Traffic Management - adjacent Apple store	Assume DBS to serving merasitions to hand over the pedect air route or or to handows of the frenchis	201 Street	Schedule 45	,RL	- 00	27/06/2012	INF CORR 8645	M/A - SCHOUWAS	N/A - 3creyu e.45	N/A - SCHOLIN AS		N/A: SCHOOL #5	AVA - SETHING AS	Note	25/08/2012	CED	12/08/3083		A/A - Streets	M/A - Schedule 45	AUX - SCHOOL W 45	
200.1 20	22		On Seven	On Sower traffic Management -adjacent Apple store. No. A button 1M and Une Maning adjacent Apple Store	A feedback profession of the CCC, 1855. TRET and bottomic bloods to modify, the SOS Design to the original design can't be middled personal and the middled personal are far as the Sos Sos Society, and the Sheeback are in a 6 the series position to that interest on the SOS Origina.	D5 56/49E	Schedule 45	N.	GC:	19/11/2012	INF CORR 8777	N/A - Scholule AS	N/A - Schedule 45	N/A SCHOOL IS		N/A Scheoly 15	NA-Science to	Доля	12/11/2012	CEC	13/11/2012		N/A - Schedule 45	N/A-Schrün 45	NIA - Schedule 45	
708 2	23	646	5 to Wide	RailCom Softmane Intention	Change to Section 35 of Emissions 's requirements to recognise Change to TVM	On Street	Cause 60	SM	UC	04/10/2012	INF CORR 8669	N/A NE, value TCO	N/A NIL VANA SCO	N/A MIL VAIVE TOO		N/A NE verse TCO	£0.00	TBA	01/10/2013	CKC	01/30/3013	80.0	04/20/202	2 NF CORR 8663	co	
209 3	м	617	Giff Service	Scottal Car pain tendocating	regularizers Change from soft to hard fanescaping at feotral respect	On Solved	Circle 60	SM	00	34/32/2012	INF CORR 8817	22/04/2013	. 9	25/08/2012 (Minal)		81	NI NI	None	01/10/2012	CEC	01/30/2013					
710			G#36 wet - Gogue Depot	Repair areas of demages flooring	Danings fished on DRACAS issues fitz.	Off Street	Clause 60	OL.	- Vuc										08/10/2012	CED	Pajested					On Hold, Notice discussion at Lothian Bus meeting, Depot sarry out direct, instead of choosing 885
711	14		C# Street	Debelon of horse at Manualfield transition and Installation of horse at	Murraylest fema not required, temporary	Of Sweet	Classes 60			\$0/23/2012	INF CORR 8748	23/11/2012							15/10/2012	OC.	15/30/2022					sarry out direct, instead of through 885
				Delection of femice at Municiples of standard and installation of femice at Royal Mail and Scottall carciack.	Murcayferd ferror not required, benaucary ferror to replaced by permanent ferror at \$000 at / Boyar mail to make car park secure.	of swell	2000 00	300		PA 13/2012	The same state	CALIFORNIA .	"						1,410/3017	CEL .	1 or and could					
		-	OR Street	New-Inner and ramp at MWFC	Accommodation works	Off Street	Cause 90	144	UC UC	29/34/2012	INF CORR 8295	22/11/3013	- 1		27/11/2012	40	494,742,03		15/30/3013	CEC	15/30/2002		09/01/2013	NF CORR 8850	- 15	

1NC	PMC No.	600 No	bioption .	Description	Reactin For Citange	On Street / Off			Change Category	Date TNC	Settler Ref	Date Is Smale Due		Date Estimate Received	Extinute Clunge		Yes implication	Date found	Approved BY	Date	Agreed Colf for Approved		TCO Letter Auf		Comments
8						Spreet	Schedole 45 sectroction	Quenal	DC/UC/CN/SA	ferred			Retorned N/V		Value (Design)	Construction		wete	ctc/thi	Rejected or	Control Clarge	[Kined]		N/Y/CLOSED GUIT	
723	228		Cartores	Haymariet Complication works outwith LOG	Construction works outwith LOG	Off Screen	Caver 60	SM	d	23/10/2012	INF CORR 8203	15/11/2012	¥	05/12/301	N/A	£217.346.30	TEA	15/20/2012	CIE	15/20/2012					
734	191	-	Cit forms	Epithology Park Central - Lights	and fortal out our to be installed between the new control pane at the Fitz and the crossing 59/9N	O# Soreez	Circle 60	SM	OI OI	05/11/2017	INF CORR RP48	29/11/2012	N		*			15/20/2012	CHE	12/30/2002					
723			CIR 50 KHC	Editious Park Visitet North absonant	Crunge in cludding Brish	OR Solves	Classes 80	SM	- 00						M/A.			55/10/2012	CIC	22/90/2002					DRAFT TNC Sweet to 885 22/33/2012
716	311	N/A. Schedul 45:	Cr. Miles	On Sever Bullioning Fishings	On Street Schickin Conclusion	Of Misse	Screen w 45	N.	80	28/20/3012	INF CORE 6737	N/A - SCHOOLW AS	N/A - Schedule 45	N/A - School w 15	N/A - SCHOOL # 55	NA MINOR ID	TEA .	22/10/2012	CRE	22/10/2012		N/A - Schedule 65	ALA Schedule 45	NA HONOUN A)	
71.7	208	620	Sando	Cool Engineering in recent of the Programme	Contingraming	5 to Wide	Clause 60	a	OK.	N/A - TNC for reference only	N/A	N/A	N/A	N/A	N/A	26,458,810.44	, y	N/A	N/A	1/4	E6/19/8/80/4	CECUMEN	CEC LIMBH	Y	Radio so CEC lesses so influeso, radios res CR5/95/C31005- 085/CEE3012, desser 38th Ostober 2002
718	298		High friction Sorfacing De Scook Waverley Bridge	IHIS on Waverley Bridge to be cone under separate Contract	ContEngineering	On Street	Schedule 65	15.	Ot	03/11/2011	INF CORE 8750	N/A-3shedule #5	N/A - Schedule 41	N/A - Schedule 15	N/A - Schedule 15	N/A - Schedule 75	TBA	05/11/2013	CHE	06/11/2002		N/A - Schedule	N/A - 3sheduw 45	N/A - Schedule 45	Advised to base to avoid deay to worm
719	172	627	Sile Wide	Fare Collection Equipment - Continuation of requirements	Installation of Fare Collection Recomment	Sir Wile	Cww.85	WO	90	20(11/2012	INF CORR \$292	14/12/0012	N					12/11/2012	OE.	13/11/2003		20/11/2013	INF CORR 8282	Y	
700			Track Compactor within Scotlari Gleant	Cost between Compactor Gate and automatic sliding Security Sale	When the compactor gate owers their trach with the appropriate shifting security gate.	Off Street	Clause 60	SM	000									13/11/2013	CAE	-					TNC under review.
7711	294	629	Depart to Angual	Insulation of extraction received to The WIT	Emule that painting and open operations incurrences of both CRF and Edinburgh Trans (ET) can be integrated with BBS first & Commiscoming requirements.	Off Street	Casse MS	a	UC .	19/11/3013	INF CORR 8790	18/12/0012					TBA	19/11/2012	CEC	15/11/2002	10.15 ICO toued	15/11/2017	INF CORR 8280		90.15.600
721	- 134	628.1	Owani da Arguez	Interior of sector selects of the MIT.	Ensure that planting and other querit one requirements of plant CAP and Lethourgh Trains (KT) can be independed with 895 feet & Commissioning requirements.	Off Street	Casse 80	a	UC.	18/11/2011	INF CORR 8780	13/12/1012	v				TBA	00/01/2013	CEC		(CD for CEC approval 7/1/13				
722			Qri So wed	Denotine Box Shellers, Box Tracties and associated governous sopples	Denotors as work now by others.	On Shirest	Scredule 45	N	lue .	16/12/2012	INF CORR ASSE	A/A - Schedule 45	N/A - Schedule 41	N/A - Scheole FS	N/A - Schedule 65	N/A -3chenue 45	TBA	13/17/2012	CHE	12/12/2002		N/A - Scheoule 63	N/A-Screoue 65	N/A-Streeue 45	
723	. 116		On Street	Traffic Management , Princes St. Road Safety Audit for release of full Princes St. Mag.	Rose Salety April to enable Princes Scop fully re-count	On Screek	Schedule 85	AL.	O.	19/11/2012	INF CORR 8776	N/A - Schedule 85	N/A - Screenwar	N/A - Screeule 45	N/A - Schelole 15	N/A - Schellule 45	TBA	19/11/2012	CIC	19/11/2002		N/A - Schedule	AUA - Schedule	M/K - School e 45	
724.	235	629	C#Street -	Municipalities SW grape - provides design calculations	SW have rejected the plyar which currently sits under the emparations.	OR Screet	Cause 80	SM	UC .	21/11/2012	INF CORR 8284	17/12/2012	N				ABT	19/11/2012				22/11/2013	INF CORR 6286		
24-6		629-1	G@Speed .	Marcades (Walse and de averages beliefs 190 vintrale) 30 (1.32	EW have rejected the plan which converting site under the emperorant	OR Spreet	Court St.	SM	46	- 95/15/9015	HIST CORR 6294	59/35/5095	N					30/11/2012	(e)	50/24/5005		39/89/8086	ANI COMP. 0504		DNG withfrown agreement made that guma no longton
25		632	Gn Street	Provisor of OWS drawings - Drainage	As Builts for handover to Scottish Water	On Street	Cucor 80	RL.	30.	27/11/2012	INF CORR 8789	20/12/2013	. 8		1	N/A		25/11/2012	CEC	16/11/2012		26/11/2013	INF CORR 8788		
26	. 1/0		C#50 set	Municipality thate	Removal of thistle for commercial saving	OR Street	Cause 80	- SM	. 0.	67/12/2012	INF CORR 8806		N N	-	N/A			09/12/2012	CIC	04/33/3033					_
42			OR society	American stationals	Personal of Assessment State Service S	OB Street	Care N	111	- 4				*		N/A			A411/2012	eas	04/12/2412					For useing BBS comments on the DBSFS TNC - chill TNC will not be loosed as these bird a saving due to fabrication of plantage almost complete.
28			D/L Soveet	Pecessian Management Clarists	Pegestran Management Operate	Oil Screet	Schedule 45	RL.	a	13/13/3013	INF CORE 8614	N/A-Scheolesis	N/A - Scredule 45	NyA-Schedule 15	N/A-SCHOOL ES	N/A - SERVICIN AS	TEA	10/17/2012	ctc	10/12/2012		N/A - Schedule	N/A - SCHOOL III	SAIR - SEPREMENT	
720			On Street	Princes St/South St Anniew St - Traffic Light Attenditions	Traffic tight conflict with Pedestrian Cooking.	On Street	School #45	(R.	OK.	13/13/3013	INF CORR 8615	18/01/2018	. 8					10/17/2011	CEC	10/12/2012			*	250	
790			On Screet	Descripe Eram Dept Crossing at Haymannet	Works over the carriageway with high class of Conflict with solides	On Street	South le 45	4.	O.	10/13/3012	INF CORR 8812	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 15	N/A - Schedule 15	N/A - Schedule 45	TBA	10/12/2012	CEE	10/12/2002		N/A - Schedule	A/A - Schedule	N/A - Schedule	
792		433	C# Street	Microphelo SW Hare CAD creaming to allow Michigan a samura so the position on the reason	AM wave unjected the large wards consently often	Off Street	Classe 60	SM	UC.				N		N/A			10/12/2012	CRE	10/12/2002					80 15 900 approved by CEC BUT for langua required so NO
792		T	C#5treet	Royalburn Scheet Roset build up - descope	greatope in Infract scope of World us it does not need the future staffs value fines) as required in the Complete Specification	OR Street	Clause 80	SM	a				N		N/A			17/12/2011	Car	10/12/2002					90.15 ECL approved by EEC BUT no onger required so NO locate
233			On Street	Patroniscot Maceyopes Malesine Systomericket His Tarcin Paving	Ontire Edge of Carriagnway	On Solver	Schedularis:	PL.	-CK	08/01/2013	INF CORR 8848	N/A - Schedule RS :	- N	N/A - Schedule 45	N/X-SCHOOL IS	N/A - SCHOOL®-15	TBA	02/01/2013	cic	03/01/2003		N/A - Streets w	N/A-SCHOOLW	NUA - SCHIEDW	
794.			On Street	West Marcand Solved/Manus Place Traffic Signals	Certain bound to footbag effect position of	On Street.	Schedule 85	1.0K	- Oi	. 09/51/2013	INF CORE 8853	N/A-Schedule 85	N	N/A : Schedule 15	N/A - Schellule 15	NA-SINGWS	TBA	07/01/2013	cto	07/01/2013		N/A - Schedule	N/A - Schedule	N/K - School de	
795			On Screed	Section 30, Wall at Santander Contest/Hope St - Materials	Achieve consistency of agrees are at each	Di-Sovet	Schedule 45	TH.	Ot.	E7	A		N		N/A			14/01/3013			1 3	-	77		
796 -		1	Gn Street	Road Marings For Bus Stops and Loading Bays on Shardwick Place.	Additional bus shelters and loading restrictions	On Street	Schedularits	- R	- 06	2	A .					A		0							
797		635	Off Street	lower 86 chandlers at South Gyle to sit Rugh with ground level Descripe Site Cedirance Items	Transfer of work to McNicholas. Descripe works	Off Solver	Clause 80 Schedulle 45	3M	- 0.							1		14/01/2013							



Appendix 5 – Risk Register

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nilen	1504		Edinburgh Tram Project Risk Register										_								
			1		Owner	J 22 E	- 1		NASOCI.	and the same	ne Mitspaled			MEX INDIPORTS PLANNING		H man	i an	Rds #	HALYSIS-	- Poet M	Mitigas
					Indendage		P7954	anily - Ci		sect - Currer	Napo						Si ay - C	Cost Time	Met - Ca	T.	-
				PE-Our				Property in ry Scare	oat Vine npa impo E ct or cer Scer n	ne Halt	impa		Lancación de la constante de l				Probabi ity Ocore	Coat Time Impalimps in cr Scar Scar	Onne Ha	M.S. Co.	100
Carne	controls setterfair to relation to commercial disappearants at	Note these slove. Writing of the prediction or contact and religator of estimates sounded for understatic target.	had three! Froguerine delay while distable, regarding estimates are recorded.	(A.I	Har Ovini (individual)		Tean				et star	a Plat Land	Processing contracts (MAS Account) Code quality is not classed of contract	Biograpy Actions (Crice 187 Mesourary	Action Officers	Орилен				-	
Utitio	as not cleaned on time	Thisk of claims for lass of productivity due to delayed access to see	Utility works not complete. Utility works obstructing access to work arross. Delay to	COC	Rob Looch	Active	Construction		3 5		4 12 3 12		Good guide is ser planted occurring the ladesanderd Certifie in place	 Herbor ham of influence to ne appet revelops induction meeting, hare writing meeting, just ungest to are it existence ground. Agrics programs of your 2 decisions with this to clarge with 865 construction programs. Timbs type conflict in vessely, suffice profess process. 	Andy Scott	Graping Graping		4 2		3 3	
GAP o	oningsily working its any 2 programs in line with Market arrord which as word easts to those dates. Now been seried with to not 5 which bushes out completed on times.	Additional costs may so claimed if GAP arc saled to detay their pregnancia, incl with rev.5	Will sock additional foce	CEC	William Dolercy	Active	Non				16			B.000.000.000.000.000.000.000.000			20				T
Utilitie	os not diverted by CECTAT Delayed provision of	Utilities cross recroi a, mg RBS Construction Works	Utility works not complete. Utility works obstructing scopes to work areas, Doby to construction works and Programmo.	1000	Doesey	1	Construction		14	-						_	<u> </u>	1	-	+	4
bound	issions from Utility Companies		construction works and Programmo	10000	944		Construction			20 20			(2) 668 has provided CECT&T with work areas and additional Traffic Management in Period 4-11 and Period 4-12	Utility owners providing live and dose drawings. As in life and inhibit.		30	ы	2			
				CECYAY	f Not Leech	Active	- On Street	*	3 5	2 3	20		Management in Period 4-11 and Period 4-12	Utility owners providing the and doub drawings. Assaults assaults by board on site. (I/O (CECTATE to manage Utility is an excellent properties.) TET has originated Utilities confinition to descript the confinition to dividit Littless.		Grasing	**	3 4			
Dioto	to sex of clarity in modellon negotiations	Falls to to recover costs for strates att street from BBS paid by GEG (BGH diversion and	Françoi loss		-	-		\vdash	++	-						_			+	+	-
		ohos)		CEC	Shiroy	Active	Non	100	الاله	8 8				Commercial modifies hold-rish BBS and DBC DBC to disclose controllust temody		Orasina	9		13 9	(4 F	
				sette	Mostet	Active	Construction	(C.C.)	* 1	10 10	1 18		1	GEC to decise contracts at temedy		Undered	2	1	P P	417	4
Adata	oral Roquements	Scattah Water Scope Increases			-	1	0/550	\vdash	++	+						+=	+		+	+	+
				CEG	Rab Looch	h Active	Non Donatruction	. 5	4 2		3 20	A		Review current approvals and progress to date on logacy existract works	Rob Looch	Oracing	3	3 2	0 1	0 3	2
Late of the late o	is Design decimally for Inhado dower on Lineal sections (e.g. Your limit star skill	1954 that additional accounts in required that is not convexity actividated in costant	Cost and lime	0.0	Hos Levels	Active	Crest				6 20		Continuous liadour will limaco regarding additional accountbulge to the life streament in large.	Set vices alloward extense on terms and technol	Gertastor	Organia			П		
Poor	management of Scotlast, Water by TIE and poor recording to king the MUDFA works	Risk that the project relationship with Scotlan Water deteriorates and accoss to utilities are resolving of delay larges becomes prolonged	of 1500 issuincined to wash clearly with the project to aske projecting colorated dolors to	-	/sauses		Cien.	. 180:	2 2	_	5.00		t lags Menaged up the excitor FM's Design Manager in stroe		Selvere	Singaring .	2	2 2	\vdash	1	-
Hoppin	ing duling the MUDFA works	resolving of delay tasses feecomes prolonged	overall programme at a time when time is critical in finalising utility diversions; knock on impact on infrace marks with potential overall delay to project and date.	TAT	Noh Looch	Active	Construction - On Street		5 5	2 3	5 25	5 111		Thogs for formative routine at SNV issues Regular workly incoming at soriar lovel, CFG, T&T, SVV	Reb Leech	1 Organa 2 Organa	3	4 3	2 9	9	4
							- Grisecon		ш					2. Togethe 190mg in board at 30000 month, Vertil 101 ; 279		S. S					
Logac	Cy RSLCR	This that the stage and extent of the lottle wall is littly works will increase.	adational costs and time.																		
				GRG	Reb Looch	Active	Non Construction	5	5 1	1 1	4 25	ė	1	Sosign works angulary. Biosperactinition proceeding and costed for as spenopriate			3	3 1	1 1	1 4	•
						'															
	corns axprossed by RITI that works not carried out in	Suspension of modus by NITI.	Dolay to construction works and Programmo							-			(1) NR1866/T&T/CEC meetings ongoing to obtain NR1 confidence in BBS shifty to			-					
accon	rdance with PCs. Reg. iroments	properties or mone by nin	body to constitution works and programme	858	Shirley Mushot	Active	Construction	2				AMBER	somely with PCL flogs remerts.	 NREBBSTETCEC meetings organize to obtain NRI contributes in BBS solling to comply with PCL Rog. Interests. Investigate Militigation method of looving pilos in - Positised, splitting shunt line, technical solution - class this action. 	A fan Weatherley	Orgoing	3	3 3			
Dio to	to the roduction of scope at Edinte, righ gateway and its ation in the plan-	Risk that scope of work at Edinburgh Gathway increased and has been underestimated	Additional work, time and costs	100	Julian		28.2									S					8
				CEG	Weatherley	Active	Donatruction	4	3 5	7. 3.	2 20			Listation with client and designer to ensure plan is robust and includes for all aspects of making, and	Shirtly Mushell	Orgoing	3	2 3	1 1	1 2	2
nets	soluciay in agreement for wayloaves by affected parties.	Approvations and for remaining waydows associated with Scottan Power works	Doby to SP works and increased costs. Dobys to SBS Programme.																		-
				SPICECT	7 (1,676)		Construction					Aumen		docitify all maybranes rice, increments and manage process proactively to one un conscrits and obtained. Plag issues to CRC. 1911 is distaller in it dates resplaces agreed hyperant of Substate. Why describe between Visit / CRC and SPEN abilities (ed. bands of Notional Plais to development mon-		Lass		2 5			2
				67	Weatherley	-	CO ST COSE		11		"	Addition	1	Haymarket Substition - Waykerine between NT / CEC and SPEN all not signed due to Network Rate to development work			3			1	â
Progra	ross at 5218 has consistently been less than planned each, d and potentially 5210	Tradic Laying stong Murrayfield Contain dollayed	Bishor programs of havy and track chies at driving athict, ros with axiny start of track toying stong the ML nayhold complex																		
				885	Torr Cettor	Active	Project - Ott Street	000	2 3	. 1	2 12	2		Close coordination of other 3rd justice works in corp, notion with the contractors own works	Ton Coffor	Organia	3	2 3	9 3	2 3	2
							200.0														
Lack	of corty applicational ties a select with NITI	Delayed NFI approvals as applicable	Dollayed shart of works. Dien plane to off street works						11	-				(1) Assisting conflactor is production of a dictated plan for the submission and approval of NRI approval documentation, on a ting or although the inferiors of a transactory.		1	Ħ		rt	+	
				006	Bhirtoy Mustor	Action	Construction	2	4 3			E CAMBEIL	Comply with Contract ros, remarks to obtain NNIT approvals and comply with approval portion. Nach Asset Protection Agreement obligations. NY 988/T&T/CEC meetings ongoing to obtain NRT approval.	Chair Ring quality and of Front road of a binational Chair Ring Agency (in proposal for information and a proposal for information management 2) William Ring Agency (in proposal for information management 2) William Ring (in proposal for information and information a					2 2		
					Musher	74.00		0.150	2 2	20 20				CECTST to craup NNTI approximatingporae tendedates are advanced (SCG) located team now counter (SCG) located team now counter		100					<u> </u>
Diot	to logacy last ce and unknown scribbs	Discovery of additional Track construction conflicts (Live)	FL ther diversors requirements	\vdash	-	+-		\rightarrow	+	+	+			To Octain Niki agreement on proposals for infortace management Utility centers providing live and doed drawings	-	-		+	\vdash	+	-
6			loca, or acr works intons plans debugs for each Dollays for consonits Additional costs	CEG	Stopnon Lowcock	Active	Construction - On Street	. 8	5 5	2 3	5 25	5 700	(4)	Uniting workers provided in we and adout a distinction. Bill bridging that of from Local lates above of that is, fall then failing, A part and ment of extendit in the case and in the case of the case of the case of the CSFIA. A part and ment of extendit fill and made as schedules at sation, being evidenced and new programme lates and for CSFIA.			2	4 4	2 7	3 3	3
Ongo	ing claims and blows	POIN (A faithe less doors to people dominants value) that	Additional costs United as any electronists with a sort of sell and chains of unarkedge and sownise. Lac- of plant as aurolach to problem solving. Delays to arguments.	_	-	+	-72000	\vdash	++	+			Costod maybres to upov	4 part actions to rouse TM and roak to schedule dustion being leviewed and new programme assued for QSRA		+	Н	10.1		+	+
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Poor o	g, sity workmanship or insolog, allo matorials	Poor exhibition or latent defects occur during or after infrace maintenance period	bi. it work doos not meet omplayers ross, rements additional costs it delays		20000000	0.000	ACCULATION AND A STATE OF			20 20	1000		and the state of t	TAT PM's to provide rogs for toothack or progress, workmanable and quality on also			200.00		100		
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		Por this Pe work, work representatives, made and other takendothes receive you quality.	Porables and/or compensation claims. Loss to confidence, bas of shelps and soliton assembly confidence.	5.140	1100 111001	Active	- On Street	1950	8 8			Admen		Commis-rications in place to act out it fifty for argent repairs	I) margo Apole	Sideria	3.5	3 3	-	* *	-
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viquiff	floore H &S Governance by McNetholas	HS.S treaches, incidents and stoppages	Price, via roe & diopracos Potential romoiel of contractor	CEG	JLRan Weatherley	active	Construction	. 3	4 4	1 8	5 25	5 180	Manager and the second of the	Flocus on method statements, works ag pradicate and HASS attandands Increases assumptions and sales leaves and sales leaves. (1) Method of principles to standify improvement plants (2) Weeking Bottly medicing with Kelinifordias and saling action log boing managed.		Orceing	2	3 2	3		4
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cratk	c commissioning, festing and accoplance.			ALL	Julian Weatherley	Action	Construction	4	3 2		1 12	2	 F. E organizant and cooperation of Operator/CAF988. Todating and Commissioning Plan for exercil Project Linder proporation to identify any potential electrical problems early. Rosal for modificial cooperation. 	46, CECT&T to one; to CAF comply with their obligations under the TISA / TMM, and Tram Interface Agreement		Gracing	2	3 4		19	ã
Unido	or filled voids has od during excavations laboralitions	Unknown or abandoned chambers, colous, voids ofe:	Reddings and sixtys ponding isself bion - sout impact	· gene	Marcon M		Construction - On Stiget						THE CONTRACTOR OF THE CONTRACT	Ocean management process Outling Design in place						1	
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		Public learch of I rain Service is usorly received by the sustic 6 Media	Phospition durings and durings to suspequent unspicts. The active into instant costs	-	-	4-7		\rightarrow	-	-	1					1	\vdash		+	+	
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luni	ERE 1504		Edinburgh Tram Project Risk Register						grise	NALYSIS - P	to the second			at advanta and				944	MIALYSIS	B. Per	Water
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Male				па Окти	His Dune			Preparent ry Score	Coat Vina Impa Impa It et Ioar Soor	Envir onme Hadi niai	Hapra hatio impa						Probability of the state of the	poet Time impe impe in cr Scor Scor	Envir onner	100 C	2 3
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3.	Odde to to lain out alpead tomat Variation reductions. Sonorien Vandalien Trassaux Anson	Variables replantation and its and innerciple Soo, referencement	Owing to received with all and Programme Doing to works also to time lost or damage caused as a rose time a security incident	98.5	Julian Weatherler	Active	Nen Cenetraction	œ	2 1		200	AWREI	Www.j.+940 invelige	handed high accords suggined to Variations divelled to disk. Protectively shall be treated in November 1 to acquirement discretization.			3	2.3		H	£ 30
			Trainsemental impact and subcore publicity	BBS-CEC. TAT	Julian Weatherley	Active	Donatruction	3	3 2	0 2	0 1	Ausen	(1) Appropriate site security to to in place, based an security hazard assessment. (3) We receive materials or works to the protected. (3) Protein-cust-out and amergency response yets to be in place and nohostseed.	OECITAT's review oversal Micriticod of Tomoriem, Vandaklem, Troopses and Arton risk to oversal Project		Grooing	3	(3)		6 3	2 6
	Brikes in site tabour force or is, policis affect works progress or solvery	ira.stral Action	Lost time due to athlias or delivery datays	866	Julian Weatherley	Active	Construction	19	2 2		0 2	2 (compa	(1) Effective workforce communication/consultation, using disating safetywelfare consulting process. (3) Use of registations and labour suppliers. (3) Use of registation is beautitations and labour suppliers. (3) Adoquate site stocks of vulnerable materials and labourly alternative suppliers.	T&Y to instruggo McNotricipes activities		Organg		1 2			0 6
103	on ork infraso da red take ox infogration responsibility	Tran (CAF) i i frankrick, in (lift basic i kopation rijk. (Na i trai i frankrick, in a val Tran moet B.o. onylogen rog, komeré is, i sre i mouveable a. ch. that aydem is reportable	Oxiday for committativing	cec	Martyn Ayro	s Active	Construction	•		* *	5 2	90 III		Tran integration remajor apportund. Tran integration remajor apportund to start from into Junuary 2012 indeed contrary disease. In the property of the proper	I. Paul Retrieton E. Gary Easton	1. 50/00/15 2. 50/00/15	2	3 3	S X	# 9	
50	Coordinate applied to work cross to satisfy statisfications is not algored with The previouser in the infrace confract from approval of 17th proposabl	Applicate India narragement and crabing-works are not a real to meet libercholder constitutes (Gyre threadway, but Plant, Lochasta, York Place etc)	Additional coals and program in Priyands	CEC	Sharloy Mushet & flo Locety	8 Active	Denstruction	3	2 2		3 1	AMBER		Lillac compoted TM staff, varifing classly with paiding TM control process. Frauer that any regard of external change in radiates to Clara and followed up for continue critisteriors. Easy waiting from standardobra segarding constraints.	Nob Looch	Oracina	2	3 3		2 9	s &
176	Dolland provision of pormissions from Utility Companies	Dotag to adfiliering stiffy coreontal & is, ponision requirements for work increase:	Dotay to construction works and Programmo	CEG	Stophon Lowasck	Active	Construction - On Street	4			4 1			Close working receivership with, stilly conyganize developed with the deception of Silv 1) Map out convent stage formership.			2	3 3		2011	
и	Construction works	Late 3rd party claims for childy property damages from works	Additional costs	CEG	Gary Easter	n Active	Non Construction	э	s 1	1: 1	100	5 (11)		Littly private presence on site. SW locacy works included in Second Chaute lobe at sign off process with Littly companies.			2	a .1	(3	2 3	
6	II I Late or incompletic adeign is timesten. El falu tri la distign, la ringuistratoria. El falu tri la distign, la ringuistratoria. El timeridad distan apprienti periode	Dolay in Dosign Agenora	1) Fails to y 800 is main compoter design submission. 2) Fails to y 800 is main to design at this series on compoters. 3) Fails to y 800 is main to design at this series of programme. 4) Fails to y 8000 if the case is appropriate programme. 4) Fails to y 8000 if the case is appropriate programme and respect. 5) Eday to constitution programme and Peager.	858	Martyn Ayro	a Action	Non Construction	2	, ,			AWREST	IT and 2) Rebuil disease introdument by 695. (3 and 4) Detailed marketing of apprecia process by 665. [5] 605 Sonat Namagement disease in Period 412 has provided closer for, side completion of Conson within the ET disease.	SECTET is on an a symmetric content to more store on action or contented Security consents restore content of security SSS grangement on features to the consistent forming the desire content of security of security of security principles of security on acting attended by all stand-violents and key dissign miledance desires seon link, dad as against attended in all security of securi	d	Organia	2	3 3	.0		
22	Lack of observe of agreements i consents prior to programmed constitution	Third Party Concerts not obtained	Oblay to continue for works and Programmo	GEG/TAT	Julian Weatherley	Active	Construction		•	, ,		2 44	(1) 866 to castel CEC/T&T as 100, incl	1) CECTAT to one, in close to draw a, tile anding agraments / conserts. Maked forward and before key of working constitutions. [5] CECTAT have asserted a additional report to be don't Miscattle Water sauce.		6954	2	3 2		,	
173		OLE ages conflict with avisiting unknown and known utilities	infrace stop work or sock further indisk clien delays to remove conflicts	CBG	Stophen. Lowsock	Active	Donatruction - On Sheet	5	5 5		5 2	s		Pilod solution with organization works contractor installing pile guides or altomative design. Core, for Piles design, competed and implemented.			2	3 2		9	
66	GEC provided eq. (ement)		diciny, riginar coole	CEC	Martyn Ayro	s Active	Construction	•	3 3			AllSeri		tracelligate potential for early testing of system integration	Çaih Leech	Grapina	2	2 3		9	
00	adred	Overdisted I am Wanting and here streets of times is Green (give and securit)	Newslated damage to Countil and Properly sinker coming present across	o.c	Nov McCallys	ir Attive	Clevi	12	2 1		8 3	1		College Manual & Council to Name repairing interes 5 asserting with very barefurthers. Name undersit to recentinging transmissional activity, excluding asserting.	CHC		2	2. 1		Villa L	*
0	dato	OLE cannot be ottached to the buildings if RPA are not agreed in time	OLE supports cannot be attached to the buildings in question	GEG	Not Leech	Active	Construction - On Street	2	2 3		5.0	Ausen		Alarnative solutions of tierry OLE would nave to the covalidation (solution) CEG need to seek logal enforcement by the shortfal court.		Orooing	2	2 3		0	
140	Cheff & MALEN D: symbolise infactor degree (IS 10 HB MO)	Seleyed while in Certification and by seyment of Connect sem	Lake this non-subjected, one; third to recovered this of work up follows:	o.c	Julian Westfurber	Active	7800 Construction	2	r =		2 3	AMBER		tension that at permit accretions are provided and agreed within Coding) to response.			3	C 3		8	£ *
47	Spiritago from discharge gump during fuoliting Loakago from elecago farès Francisir Naswa natominished un araket	nydrocarbon contamination of the ground, groundwater and watercounties (SEN)drolles) SEP tell to determ on turns day to therefore account and outwist troopers	rosulting in coological damage, ponditios, logal action, datay and/or cleanut a code tion defended it and, delant and costs to revoyour	TAT	Rati Looch	Active	Construction - On Street	2	t 9	3 3	5 4	AMER		Fucing of mobile couponers to the carried out in the risk locations, using appropriate couponers. Comply with Of Storage Regulations. Storage lawy from consists recognized and/or distribution systems. Error, or split into analysis frecognized in the consists of the c			2	τ 2	4	4 1	
7				O ₆ C	Julian Wealtwhen	Active	Non Construction	E 15	8 8		8 4	Ausen					9			9	
79		That their contract state has been been for delay a north water increas; and requires so, the breaker, out and replaced.		180-5	Not Looch	Active	Construction - On Street	4:	3 3		6 3	AMMIN		Trading drawing Trading drawing Trading drawing through marks prior to live currons.			9	3 3		1,000	. 3
8		No. that anywell deterry have liefs to commentate the ended should be used as the use in a while to the United September 1.		900	Plyal Mountso	al Acrive	Hen Construction	•	2 3		1 2		GUCF Assessince halds Obsculring white angle trianseperinstit CAC 15 on topies of uragramme title mallors	Saint cleats on chemistropics defines in some grave-blacks and direction A measured in signification introdupement and appropriate A mapped secretion state to display access subspectives.	f. David Fox 3. Movemen Movie 4. Meet Rosmoon	t. Donakele 3. Conskele 4. Contakele	9	2 2		9	
53	Reulfloors surveys and tell holes de	Johannacon gro, nd conditione rings, to addition alreatile, executations; fill ob-	Adalborial costs, work and programme, impacts.	CEC	Julian Weathericy	Active	Construction		2 2		1 0	s AMBER		Suncystratifiq works to aborety			2	2 2		9	
D.	Failure by designer to carry out verification inspections Failure of site team to create indiffication inspections are carried out properly and menitor results.	Fails to of Designer to verify works competion in accordance with design	Yorkication not Assured & Evidence Provided as such, etc. Ifing in detay to handlave to system contactor or operation. Yorkication to the supplementation of a supplementation of the system of the supplementation of the s	858	Julian Weatherley	Active	Construction	2	* *	0 0	5 1	ARSEN	(1) Increased monitoring by QL afty team to verify that peoper checks are borner carried of a real recedes loop! — evides rede, so requirement. (2) Additional SDB extended Construction is apport Resources have been deployed to the Project.			Orquing	2	2 2	0	0	i (ii)
1	(1) Fask, no try sito statif to foliase ITPs and inscirant quotity proceds no proceds no (p. Pool partiormanico (qu. sitili) du ining construction; poor explorate, defocts	Fig.L. or d'Contractors / St. 5-Contractors to self-confly compéticu, close out of NCRs and delicer condit. clion (a. city)	(1) Sed Confliction of Works not Assured 8. Electrico Previolation such, tost ling in solicy to Fandonie to system confliction or operate (E) CRC/181 or ICP and gloon, suitable level of confirmation that the works have been correlated to required standards.	888	Julian Witatherloy	Active	Donatruction	2			2 1	AMPER	(1) Historisand monitoring by Quality fourn to verify that proper checks are being sprindly at and records length is accordance with ITPs - review ratios are too, before?. (2) Additional BRB Quality Toom Resources have been deployed to the Propert			Organa	2	2 2		ō	

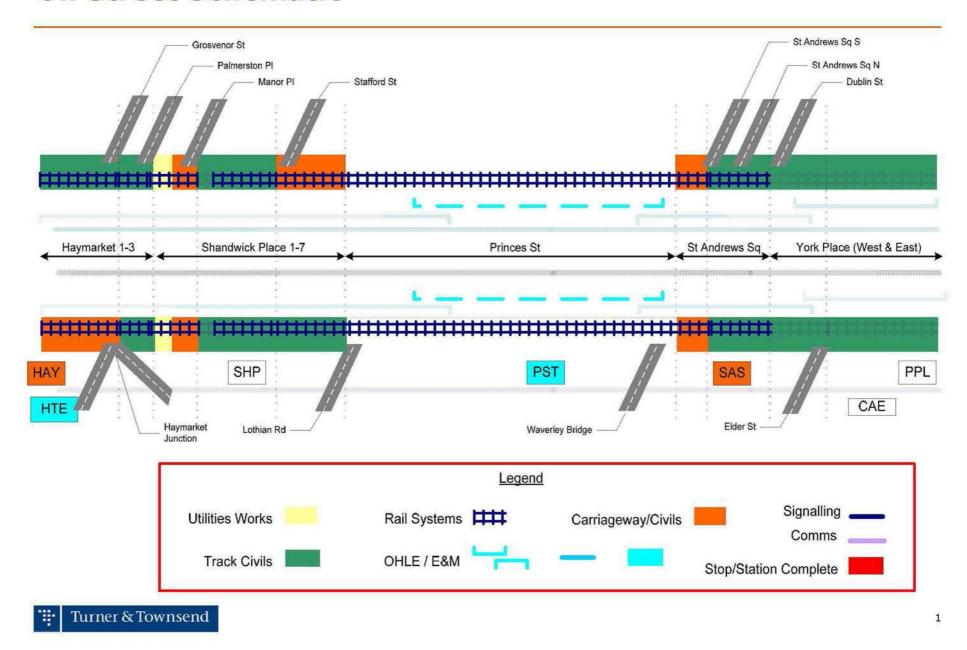
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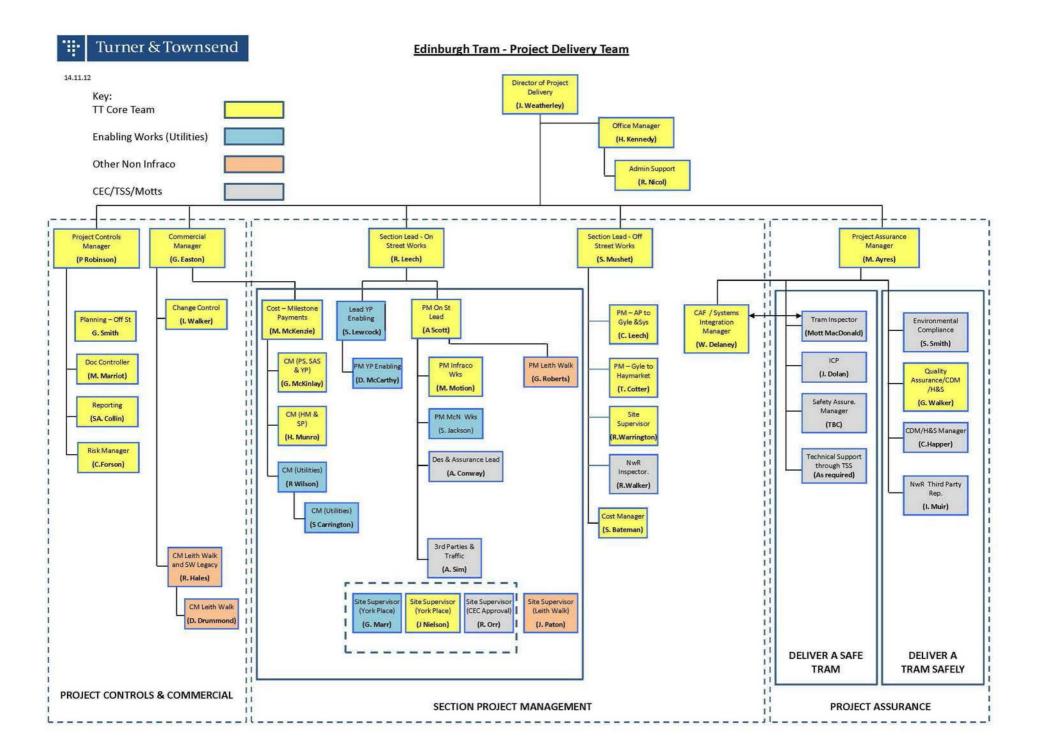
Appendix 6 - On Street Schematic

On Street Schematic





Appendix 7 – Organisation Chart



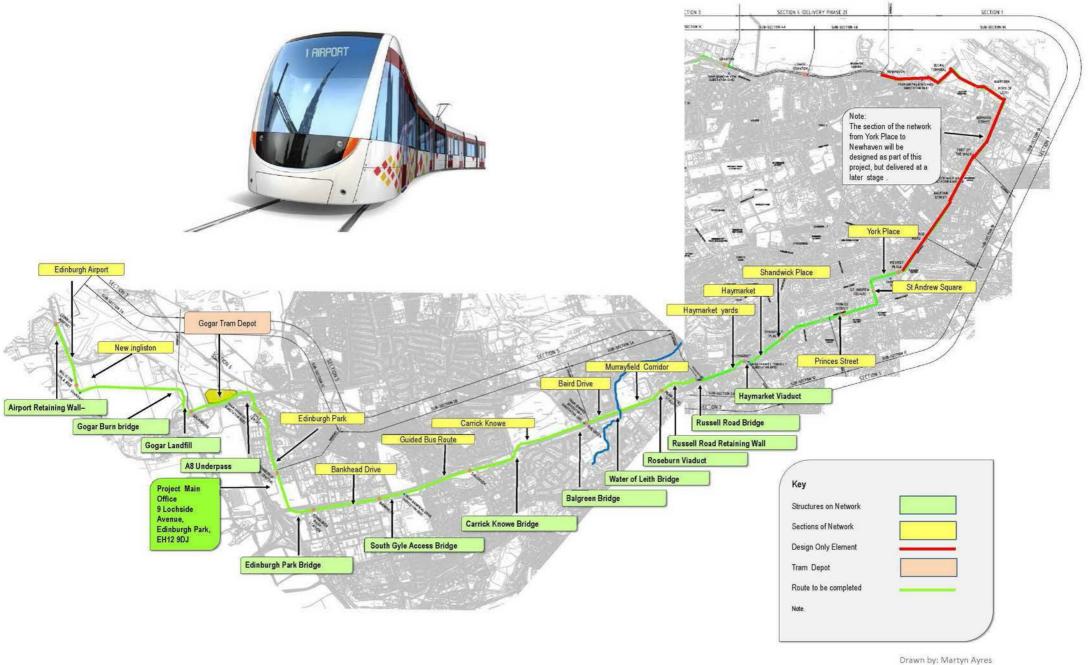


Appendix 8 – Route Map











Appendix 9 – Acronyms



ACRONYMS

I con	I	
ACCB AiP	Accommodation and Boundary Works	
01000	Approval in Principle	
ANC	Advice of Non Compliance	
APPP	Prior Approvals – Detail Design	
APPR	Approvals	
APPT	Technical Approvals – Detail Design	
ARCH	Architecture	
AUXI	Auxilliary Power	
BAA	British Airports Authority	
BBS	Bilfinger Berger Siemens	
BLDS	Buildings	
BRDG	Bridges	
BSC	Bilfinger Berger / Siemens / CAF - previous consortium	
CAF	Tram Provider - (Construcciones y Auxiliar de Ferrocarriles)	
CAR	Corrective Action Request	
CAR	Water Environment (Controlled Activities) Regulations 2011	
CDM	Construction (Design and Management) Regulations 2007	
CEC	City of Edinburgh Council	
CECS	CEC Services	
CfS	Case for Safety	
CHAR	Charette Changes	
COCP	Code of Construction Practice	
СОММ	Commissioning	
CVI	Confirmation of Verbal Instruction	
DAS	Design Assurance Statement	
DASB	Design – As Builts	
DaST	Deliver a Safe Tram	
DDAP	Detailed Design Assurance Plan	
DEMO	Demolition	
DEPO	Depot	
DKE	Dynamic Kinetic Envelope	
DoC	Declaration of Conformity	
DRAN	Drainage	
DtTS	Deliver the Tram Safely	
E&M	Electrical & Mechanical	
EAL	Edinburgh Airport Limited	
EART	Earthworks / Embankments	
ELEC	Electricity	
EMC	Electromagnetic Compatability	
ENVI	Environmental	
ER's	Employers Requirements	
ESM	Engineering Safety Management	
FAT	Factory Acceptance Test	
FATs	Factory Acceptance Tests	
GASS	Gas	
GEOT HAZID	Geotechnical Hazard Identification Study	
HAZOP	Hazard and Operability Study	
HIGH HIRA	Highways Hazard Identification and Risk Assessment	
HMRI	Railway Inspectorate	
HS	Historic Scotland	
HSE	Health and Safety Executive	
HV	High Voltage	
ICCO	Independent Certifiers Change Order	
ICP	Independent Competent Person	

IDC	Inter Disciplinary Check
IDR	
	Inter Disciplinary Review
Infraco	Infrastructure contract
ISA	Independent Safety Assessor
ISRP	Infrastructure Safety Review Panel
ITP	Inspection and Test Plan
JNCS	Junctions
KPI	Key Performance Indicator
LAND	Landscaping
LIGH	Lighting
LOLER	Lifting Operations and Lifting Equipment Regulations 1998
MANA	Management
MECH	Mechanical
MILE	Milestones
MISC	Miscellaneous
MODL	Modelling
MUDFA	Multi-Utility Diversions Framework Agreement
MUDFA	Multi Utility Diversions Framework Agreement
MULT	Multi-Discipline
NCR	Non Conformance Report
NR	Network Rail
NWR	Network Rail
0&M	Operation and Maintenance
occ	Operational Control Centre
OCIP	Owner Controlled Insurance Policy
OCL	Overhead Catenary Line
OLE	Overhead Line Equipment
ORA	Operational Risk Assessment
ORR	Office of Rail Regulation
ORS	Operational Radio System
OTHW	Other Works
PHA	Preliminary Hazard Analysis
PLAT	Platforms
PM	Planned Maintenance
POWR	Power (Traction)
PSCC	Project Safety Certification Committee
QCRA	Quantified Cost Risk Analysis
QRA	Quantified Risk Analysis
QSRA -	Quantative Schedule Risk Analysis
RAIB	Rail Accident Investigation Branch
RAM	Reliability Availability Maintainability
REL	Railway Electrification
RFI	Request for Information
RFO RIDDOR	Request for Opinion Reporting of Injuries, Diseases and Dangerous Occurences Regulations 1995
ROGS	The Railway and other Guided Transport System (Safety) Regulations 2006
RSA	Road Safety Audit
RSAR	Road Safety Audit Road Safety Audit Report
S&T	Signalling and Telecoms
SAC	Safety Application Condition
SAT	System Acceptance Test
SATs	Site Acceptance tests
SCADA	Supervisory Control and Data Acquisition
SDS	System Design Services
SEPA	Scottish Environmental Protection Agency
SEWR	Sewerage
SFAIRP	So Far As Is Reasonably Practicable
SGN	Scotland Gas Networks
SI	Site Instruction
SIGN	Signalling
SIT	System Integration Test
SMS	Safety Management System
SNH	Scottish Natural Heritage
SP	Scottish Power
STAK	Stakeholder Stakeholder
STRL	Street Lighting Structures / Petrining Structures
STRU SUBM	Structures / Retaining Structures
SUBS	Submissions Sub-Stations
SURV	Surveys
DOILA	July Veys

SW	Scottish Water
TPS	Traction Power Supply
T&T	Turner & Townsend
TCO	Tie Change Order
TM	Traffic Management
TNC	Tie Notice of Change
TS	Transport Scotland
TSS	Technical Support Services
UCO	Utilities Change Order
UNC	Utilities Notice of Change