

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-12 - Rev 0 - 02/03/2013

Infraco Cost Report Section 5 - Opportunities

Ref No	Description	Approved Changes	Changes in Progress	Anticipated Changes	Contributions	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	-2,290,000	-150,000	-7,442,393	-14,057,398	0	-14,057,398	-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	Contribution Received	Notes	Section Code	Change Code
01	Edinburgh Gateway Feasibility	861,943	82,944	0		944,887	944,887	0	944,887	£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	540,000	Construction works element of overall settlement with NIL. Remaining amount contained in Land budget	07	01
03	Henderson Global - Cathedral Lane substation	-44,596	279,478	579,117	-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 reached with RBS 11/06/2012	07	01
05	St Andrew Square Public Realm design		135,143	0		135,143	135,143	0	135,143	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)		19,842	0		19,842	19,842	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
12	St Andrew Square Public Realm Footways (Scoutmoor)	237,000	0	0		237,000	237,000	0		Offset by risk on basis that this may be claimed by Bilfinger as an extra	01	01
13	Hope Street Junction	23,000	0	0		23,000	0	23,000		Actual cost will be incurred in Utilities contract	01	01
14	RBS Tramstop: additional contribution for handrail to ramp		5,250	0		5,250	0	5,250			07	01
15	Traffic Management costs incurred at York Place and during Christmas 2012 shutdown (tNC 639 Rev F and 728)	14,000	0	0		14,000	0	14,000			01	01
16	Additional crossing points at Shandwick Place as per tNC 756)	25,000	0	0		25,000	0	25,000	25,000		01	01

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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	Contribution Received	Notes	Section Code	Change Code
17	Network Rail contribution for additional retaining measures resulting from changes to accepted Form B designs		0	0	250,000	250,000	0	250,000		Refer to Anticipated change items 51 and 52. Final contribution value subject to negotiations between CEC/Network Rail	05	01
Total		3,323,160	3,951,366	579,117	-94,000	7,759,643	7,442,393	317,250	1,963,243			

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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	6,480,904	3,843,362	825,278		11,149,544
02	PAVs (Utilities, etc)	1,841,367	-2,491,234	155,000		-494,867
03	Miscellaneous Client Risk Items	236,478	0	0		236,478
04	Time Delay	1,881,064	2,660,097	0		4,541,161
05	Project Contributions	0	0	0	-7,759,643	-7,759,643
Total		10,439,813	4,012,225	980,278	-7,759,643	7,672,673

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
539	System Wide - Delay in signing - impact on commencement and completion - costs incurred at front end of programme	241,827		0	0	241,827
539.1	System Wide - Delay in signing - impact on commencement and completion - prolongation costs at end of programme	0		-241,827	0	-241,827
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	0		0	173	173
554	St Andrew Square & Shandwick Place - Traffic Management Requirements	0		0	12,150	12,150
584	Road Reconstruction specification	0		0	145,520	145,520
599	Floating track slab	0		0	4,275	4,275
600	Shandwick place - OLE bases affecting utilities (Piling)	0		0	-3,000	-3,000
606	York Place - Waverley Bridge - Works Delayed and disrupted as a result of works carried out by Third parties	0		0	8,035	8,035
639	York Place - Traffic Management Design	0		0	80	80
660	Princes Street Traffic Management	0		0	-80	-80
661	Blank off signage to Depot	0		-10,000	0	-10,000
675	Remove concrete around the water meter at the ScotRail Depot.	12,507		-12,507	0	0
678	Temporary traffic management design at York Place to keep bus station access open	0		0	2,698	2,698
682	Descope work associated with street lighting, road signage & traffic signals	0		0	-2,102	-2,102
685	Provide technical information on Lindsay Road works	-591		0	0	-591

Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
687	Relaxation of specification Appendix 11/1 to allow new in lieu of recovered whin kerbs	0		0	31,795	31,795
693	Footway and kerbing reinstatement in Shandwick Place	0		0	-83	-83
695	Tanker Access Edinburgh Airport	-1,055		0	0	-1,055
696	SGN as Builts for New Ingliston Limited	3,414		-3,414	0	0
702	Eastfield Avenue Pedestrian Crossing	-24,562		0	0	-24,562
713	Haymarket - construction works outwith LOD	117,347		-117,347	0	0
714	Edinburgh Park Central - Amend design to utilise CEC control panel	14,231		-10,000	0	4,231
717	Cost Engineering in respect of the Programme (22 week saving)	269,159		0	0	269,159
717.1	Cost Engineering in respect of the Programme (22 week saving)	0		-269,159	0	-269,159
723	Princes Street road safety audit for release of full Princes St plug	675		-675	0	0
724	Murrayfield SW pipe - provide design calculations	3,266		0	0	3,266
728	Pedestrian management requirements over Christmas shutdown	0		0	1,748	1,748
733	Palmerston Place/West Maitland St/Torphichen PI - Tactile Paving	0		0	5,000	5,000
735	Additional walls required at Queensferry Street/Hope St Junction	0		0	1,321	1,321
742	South Gyle junction site survey	10,000		-10,000	0	0

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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
743	Gogar Depot construction - de-scope road specification	0		5,000	0	5,000
744	Carrickknowe golf course - additional drainage to alleviate flooding	10,000		-10,000	0	0
745	Remove buff coloured HFS from Carrick Knowe Bridge and Edinburgh Park Viaduct	0		2,000	0	2,000
747	Princes St. tram stop remedials	0		0	5,000	5,000
749	De-scope of footway works outside Haymarket Station	0		0	-5,000	-5,000
750	Gogar Castle Access Road - Additional HFS and road safety signage	6,282		0	0	6,282
751	Gogarburn Hoarding - remove off site (hoarding originally installed by MUDFA)	2,500		0	0	2,500
752	Gogarburn Tramstop - New handrail to ramp	5,250		0	0	5,250
754	Additional earthing & bonding to demarcation fencing along Network Rail corridor	100,000		0	0	100,000
755	Relocate signage at Gogarburn tram stop	1,200		0	0	1,200
756	Walkways at Shandwick Place for next two international rugby matches	0		0	5,000	5,000
Total		771,451	0	-677,929	212,531	306,053

Anticipated Change			502,500	0	502,500
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Opportunities			0	0	0
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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 Anticipated Final Cost	771,451	0	-175,429	212,531	808,553
	Contributions			255,250	62,000	317,250
	Change to Anticipated Final Project Cost	771,451	0	-430,679	150,531	491,303

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Utilities Cost Report: Section 1 - Utilities Summary

	Budget Information			Committed			Forecast					Third Party Contributions		Variance		Actuals	
	A	B	C = A + B	D	E	F = D + E	G	H	I	J	K = F + G + H + I + J	L	M = K-L	N = M - C	O = 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 / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	Cost of Work Done	Outstanding Amount
Post Settlement Utilities	2,912	16,049	18,961	2,912	16,049	18,961	0	447	0	0	19,408	0	19,408	447	2.4%	18,323	638
McNicholas	1,812	14,151	15,963	1,812	14,151	15,963	0	372	0	0	16,335	0	16,335	372	2.3%	15,649	314
01 Conflicts	1,812	4,274	6,086	1,812	4,274	6,086		13			6,099	0	6,099	13	0.2%	5,946	140
01A Drainage		2,481	2,481		2,481	2,481		0			2,481	0	2,481	0	0.0%	2,382	99
01B Grosvenor St / Haymarket Sewer Collapse		-10	-10		-10	-10		188			178	0	178	188	-1880.0%	178	-188
01C Tower Place Bridge		71	71		71	71		0			71	0	71	0	0.0%	71	0
01D Princes Street Outstanding Works		108	108		108	108		0			108	0	108	0	0.0%	108	0
01E Priority 2 Works		2,911	2,911		2,911	2,911		83			2,994	0	2,994	83	2.9%	2,763	148
01F Public Realm Works		67	67		67	67		0			67	0	67	0	0.0%	67	0
02 Legacy Works		1,411	1,411		1,411	1,411		0			1,411	0	1,411	0	0.0%	1,383	28
03 Standby Team		0	0		0	0		0			0	0	0	0		0	0
04 Management Team		1,455	1,455		1,455	1,455		45			1,500	0	1,500	45	3.1%	1,410	45
05 Design Team		1,316	1,316		1,316	1,316		41			1,357	0	1,357	41	3.1%	1,276	40
06 Accomodation		67	67		67	67		2			69	0	69	2	3.0%	66	1
Statutory Utility Companies	0	2,525	2,525	0	2,525	2,525	0	75	0	0	2,600	0	2,600	75	3.0%	2,476	49
01 Scottish Power		115	115		115	115		5			120		120	5	4.3%	111	4
02 Scottish Gas Networks		20	20		20	20		0			20		20	0	0.0%	19	1
03 Scottish Water		1,380	1,380		1,380	1,380		50			1,430		1,430	50	3.6%	1,356	24
04 Virgin Media		306	306		306	306		14			320		320	14	4.6%	292	14
05 Verizon		4	4		4	4		1			5		5	1	25.0%	3	1
06 Cable & Wireless		54	54		54	54		3			57		57	3	5.6%	51	3
07 Fibrenet		188	188		188	188		0			188		188	0	0.0%	188	0
08 BT		449	449		449	449		1			450		450	1	0.2%	448	1
09 Siemens		9	9		9	9		1			10		10	1	11.1%	8	1
12 Contributions (all companies)		0	0		0	0		0			0		0	0		0	0
00 Legacy Works	1,100	-627	473	1,100	-627	473		0			473		473	0	0.0%	198	275

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

	Budget Information			Committed			Forecast					Third Party Contributions		Variance		Actuals	
	A	B	C = A + B	D	E	F = D + E	G	H	I	J	K = F + G + H + I + J	L	M = K - L	N = M - C	N = M / C - 1	O	P
	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	0	63,985	-300	63,685	1,280	2.53%	62,026	1,624
CAF	62,400	5	62,405	63,581	5	63,586	35	300	0	0	63,921	-300	63,621	1,216	2.43%	61,962	1,624
01 Trams	55,042	0	55,042	55,042	0	55,042	0	0			55,042	0	55,042	0	0.00%	53,390	1,652
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	0
04 Miscellaneous	73	0	73	73	0	73	0	0			73	0	73	0	0.00%	73	0
05 Modification 1 - Interior Layout	300	0	300	300	0	300	0	0			300	0	300	0	0.00%	300	0
06 Modification 2 - Delivery First Tram	38	0	38	38	0	38	0	0			38	0	38	0	0.00%	38	0
07 Phoenix and Prioritised Works	3,931	0	3,931	5,112	0	5,112	0	0			5,112	0	5,112	1,181	30.04%	5,112	0
10 Post Mediation Change		5	5		5	5	35	300			340	-300	40	35	6700.00%	193	-188
Non CAF	0	0	0	64	0	64	0	0	0	0	64	0	64	64	#DIV/0!	64	0
01 Miscellaneous Costs		0	0	64		64					64		64	64	#DIV/0!	64	0

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

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Tramco Cost Report Section 3 - Change in Progress

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Group	Change Code
004	Bus Tracker - Termination of Wiring	35,000	35,000	0		10	01
Total		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	Change Code
1	Tram Integration Manager	300,000	300,000	0	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		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
				0		
Total		300,000	300,000	0		

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Tramco Cost Report Section 5 - Credits & Contributions

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

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Appendix 3 – Change Log



TNC No.	PMC No.	ICO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	T&T Change Owner	Change Category DC/ALC/CR/RS	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned N/Y	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved by CEC/T&T	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments	
501	001	502	Hawthornvale Cycle Link	Change the design to widen the footway alongside the south side of Lindsay Road	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R	21/06/2011	INF CORR 7787	N/A		05/08/2011	£20,020.51	£0.00		19/10/2011	CEC	20/10/2011	£20,020.51	24/10/2011	INF CORR 7784	Previously PWTNC-001	
502	002	508	Ocean Drive Footway	Amend the design of Ocean Drive to reinstate the footpath to the north of Ocean Drive	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R	21/06/2011	INF CORR 7786	N/A		15/08/2011	£10,230.82	£0.00		N/A	T&T	26/10/2011	£10,230.82	26/10/2011	INF CORR 7941	Previously PWTNC-002	
503	003	515	Depot Access Bridge	Amend the design of the OLE at the Depot Access Bridge to enable construction of the Depot	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	C/R	21/06/2011	INF CORR 7785	N/A		04/08/2011	£69,228.43	£0.00		24/11/2011	CEC	30/11/2011	£67,646.03	30/11/2011	INF CORR 7993	Previously PWTNC-003	
504	004	506	Blenheim Place	Review of the banned right turn into Blenheim Place as part of the design for Section 1C2 roads	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R	21/06/2011	INF CORR 7788	N/A		05/08/2011	£46,247.09	£0.00		19/10/2011	CEC	20/10/2011	£46,247.09	24/10/2011	INF CORR 7938	Previously PWTNC-004	
505	005	513	York Place Terminal Point	Production of a feasibility report, initial feasibility design for option ii), run time modelling etc	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R	20/07/2011	INF CORR 7817	N/A	15/08/2011	19/10/2011	£228,652.80	£0.00		24/11/2011	CEC	24/11/2011	£228,652.80	25/11/2011	INF CORR 7991	Previously PWTNC-005	
506	006	509	The Mound	Design for providing a new cycleway from the Mound to Princes Street	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R	21/06/2011	INF CORR 7789	N/A		05/08/2011	£9,436.98	£0.00		19/10/2011	CEC	20/10/2011	£9,436.98	24/10/2011	INF CORR 7935	Previously PWTNC-006	
506.1	006	503.1	The Mound	Design for providing a new cycleway from the Mound to Princes Street	Historic Post Mediation Change	On Street	Clause 80	IAW	C/R	21/06/2011	INF CORR 7789	N/A		23/01/2012	£1,668.71	£0.00		30/01/2012	CEC	03/02/2012	£1,668.71	30/01/2012		Additional to TCO 503	
507	007	504	St Andrew Square	Provide a clarification report and completion of the St. Andrew Square Public Realm design	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	C/R	21/06/2011	INF CORR 7790	N/A		23/08/2011	£189,035.64	£0.00		19/10/2011	CEC	20/10/2011	See TCO 504 Rev D	24/10/2011	INF CORR 7936	Previously PWTNC-007- tCO 504 Rev A issued 15/12/11	
507.1	007	504.1	St Andrew Square	Provide a clarification report and completion of the St. Andrew Square Public Realm design. TCO 504 Rev A issued to agree TCO.	Historic Post Mediation Change	On Street	Clause 80	RL	C/R	TCO to agree change	TCO to agree change	N/A	N/A	N/A	£133,075.48	N/A			CEC		See TCO 504 Rev D	15/12/2011	INF CORR 8028		
507.2	007	504.2	St Andrew Square	Design completion information to reflect input from informal consultation with CEC.	Design for future use by CEC	On Street	Clause 80	RL	C/R	TCO to agree change	TCO to agree change	N/A	N/A	N/A		N/A					See TCO 504 Rev D	18/09/2012	INF CORR 8590		
507.3	007	504.3	St Andrew Square	Request for 2 IFC Drawings in DWG format.	Design for future use by CEC	On Street	Clause 80	RL	C/R	09/01/2013	INF CORR 8849	Advised by email 10/01/2013, additional cost £ 156.95.	Y	N/A	£135,143.49	N/A		07/01/2013	CEC	07/01/2013	£135,143.49	18/09/2013	INF CORR 8875	Note - TCO issue sequence on Change Register needs corrected.	
508	013	507	Eastfield Avenue	Obtain EAL approval for the highways design drawings at Eastfield Avenue tram crossing	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	D/C	11/07/2011	INF CORR 7804	N/A	04/08/2011	05/08/2011	£10,025.09	£0.00		19/10/2011	CEC	20/10/2011	£10,025.09	24/10/2011	INF CORR 7939	Previously PWTNC-008	
509	008	519	Cathedral Lane Substation	Design of Cathedral Lane Substation	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	D/C	12/07/2011	INF CORR 7799	N/A	02/08/2011	09/11/2011	£233,595.67	£0.00		13/12/2011	CEC	15/12/2011	£233,595.67	15/12/2011	INF CORR 8027	Previously PWTNC-009 - instructed to proceed in TNC letter but awaiting CEC approval to issue TCO	
510	011	511	Murrayfield Gogar Lane	Murrayfield Accommodation Works Storm Water Connection from Gogar Lodge to the landowners new septic tank.	Change Withdrawn	Off Street	Clause 80	AS/GMG	C/R	13/07/2011	INF CORR 7815	N/A		14/11/2011	£5,750.29	£0.00		N/A	T&T	21/11/2011	£5,750.29	21/11/2011	INF CORR 7993	Withdrawn Previously PWTNC-011	
511	012	505	Ocean Terminal	Re-design of Ocean Terminal Bypass Road	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	D/C	13/07/2011	INF CORR 7804	N/A		29/08/2011	£53,685.15	£0.00		19/10/2011	CEC	20/10/2011	£53,685.15	24/10/2011	INF CORR 7937	Previously PWTNC-012 - tCO 505 Rev A issued 24/02/12, signed TCO returned by BBS 9/03/12	
513	015	526	Various	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	Historic Post Mediation Change	On Street	Clause 80	RL	D/C	20/07/2011 07/09/2011 (ASB) 30/09/2011 (CRD)	INF CORR 7818 INF CORR 7895	Various	09/11/2011	23/01/12	£43,547.07 £51,211.55	£0.00		15/12/2011	CEC	21/12/2011	£156,870.49	06/01/2012	INF CORR 8053	Previously PWTNC-013 - Estimates Outstanding for 13 and being reviewed for A&B and CRD, tCO 526A issued 20/02/12 for design works (covers A, B, C, D)	
513.1	015	526	Various	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	Historic Post Mediation Change	On Street	Schedule 45	RL	D/C	30/09/2011 (E)	OSW.004 OSW.005	Various	N/A	N/A	N/A	£0.00		15/12/2011	CEC	20/02/2012			N/A	13E is now a PAV being actioned under Schedule Part 45 tCO526A issued 20/02/12 for design works	
514	016	554	Various	Utility Mapping	Historic Post Mediation Change	On Street	Clause 80	AS/GMG	D/C	22/07/2011	INF CORR 7825	N/A	17/08/2011	16/12/2011	£92,756.07	£0.00		27/02/2012	CEC	27/02/2012	£92,756.07	29/02/2012	INF CORR 8168	Agreed	
515	014	547	Edinburgh Gateway	Edinburgh Gateway 33kV Cable Protection	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	D/C	02/08/2011	INF CORR 7828	N/A	02/12/2011					Costs included in TNC-531							Previously PWTNC-015 - instructed to proceed in TNC letter. NOW SUPERSEDED BY TNC 531.
516	017	565	Depot & Mini Test Track	Additional Watermain requirement at Depot and Mini Test Track.	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	D/C	08/09/2011	INF CORR 7883	N/A	09/12/2011	13/12/2011	£0.00	£51,281.72	N/A	16/04/2012	CEC	24/04/2012	£51,281.72	26/04/2012	INF CORR 8074	Chase up BBS on why TCO not returned.	
517	018	539	Depot & Mini Test Track	Additional BT Ducts at Depot and Mini Test Track	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	D/C	08/09/2011	INF CORR 7894	N/A	09/12/2011	13/12/2011	£0.00	£3,208.66			T&T		£2,995.96	16/01/2012	INF CORR 8072	Previously PWTNC-016 - instructed to proceed in TNC letter	
518			The Mound	Design & installation of a new cycleway through the Mound / Hanover Street junction - SEE TNC 506 (WITHDRAWN)		On Street				09/09/2011														Previously PWTNC-018 - Withdrawn (Duplicates 506)	
519			York Place	Design of a temporary tram stop in York Place (WITHDRAWN)		On Street				09/09/2011														Previously PWTNC-019 - Withdrawn (Duplicates 505)	
520	009	559	Depot	Valve chamber access and alteration works to 800mm water main at the Depot	Historic Post Mediation Change	Off Street	Clause 80	AS/GMG	D/C	18/05/2011	INF CORR 7729	N/A	18/06/2011	24/10/2011	£105,786.20	£0.00		16/02/2012	CEC	20/02/2012	£105,826.16	28/02/2012	INF CORR 8160	Previously TNC-137. Estimate reviewed and issued back to BBS with comments, signed TCO returned by BBS 9/03/12	
521	028		Haymarket	Temporary Accommodation	To provide accommodation for Midicholas	On Street	Schedule 45	RL	D/C	07/10/2011	INF CORR 7926	N/A	01/11/2011	14/11/2011	N/A	£4,917.00			N/A	T&T	07/10/2011			N/A - Schedule 45 N/A - Schedule 45	Originally Clause 80 now Clause 45.
522	029	N/A	Haymarket 1	Road Reconstruction		On Street	Schedule 45	KM/RL	DC	07/10/2011	INF CORR 7927	N/A	02/11/2011	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	N/A Schedule 45	TBA	07/10/2011	CEC	07/10/2011			N/A - Schedule 45 N/A - Schedule 45	Transfer to TNC 584
523	030		Haymarket 1	Additional CBR / Plate Testing		On Street	Schedule 45	SL	D/C	07/10/2011	INF CORR 7928	N/A	02/11/2011	Y	Costs included in Site Investigation				None					N/A N/A	£300 included in PMC 025, TRANSFER TO 584 FOR ROAD RECONSTRUCTION
524	019	586	Airport to Gyle	NIL Design Finalisation (also includes Construction)	Reduced scope in relation to Drainage and revised road make up.	Off Street	Clause 80	AS/GMG	D/C	30/09/2011	INF CORR 7905	N/A	20/01/2012	Y	14/05/2012	see Construction	None	03/07/2012	CEC	03/07/2012	£40,558.19	16/07/2012	INF CORR 8855	Previously PWTNC-017 - Withdrawn (Duplicates 505)	
525	026		Airport to Gyle	Site Access for Remedial Works		Off Street	Clause 80	AS/GMG	D/C	30/09/2011	INF CORR 7906	N/A	26/10/2011	N/A	N/A										SUPERSEDED BY 525.1.
525.1	026		Airport to Gyle	Site Access for Remedial Works		Off Street	Clause 80	AS/GMG	D/C	22/11/2011	INF CORR 7978	N/A	23/01/2012												SEE TNC 576 FOR UPDATE
526	027	518	Airport to Gyle	Tram Delivery Temporary Works		Off Street	Clause 80	AS/GMG	D/C	07/10/2011	INF CORR 7918	N/A	02/11/2011	14/11/2011	N/A	£5,940.24			N/A	T&T	08/10/2011	£6,878.44	13/12/2011	INF CORR 8008	
527			Inglisdon	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 Inglisdon		Off Street	Clause 80	AS/GMG	C/R																GE - AGREE COSTS WITH BBS, ISSUE TNC/TCO
528	037	501	Haymarket 1	Slit trench excavation to validate utilities		On Street	Schedule 45	SL	U/C	19/10/2011	INF CORR 7923	N/A	11/11/2011			£10,000.00			N/A	T&T	19/10/2011			N/A N/A	Previously issued as TNC 129
529	022	534.1	Section 5C - Gogar Castle Access Road	Design Gogar Castle Access Road tram crossing and approaches		Off Street	Clause 80	AS/GMG	C/R	26/10/2011	INF CORR 7944	N/A	21/11/2011	15/11/2011	£39,401.86	£22,728.57		15/12/2011	CEC	16/12/2011	£31,308.00	17/01/2012	INF CORR 8040 + 8085	Previously issued as TNC 130	
530	023	525	Section 6 - Depot Access Road	Amend the design of the Depot Road turning head as per RDC191, Option 2		Off Street	Clause 80	AS/GMG	C/R	27/10/2011	INF CORR 7949	N/A	22/11/2011	18/10/2011	£30,458.40	Nil		N/A	T&T		£30,458.40	15/12/2011	INF CORR 8030	Previously issued as TNC 130	
531	014	532	Edinburgh Gateway	Advance Temporary Works design	Early implementation of the temporary works will enable the TRW works to commence as	Off Street	Clause 80	AS/GMG	D/C	28/10/2011	INF CORR 7961	N/A	09/12/2011	07/12/2011	Nil	£790,185.14				TS	21/12/2011	£9,349.00	21/12/2011	INF CORR 8049	Works requested and cost approved by Transport Scotland
532			Princes Street	Temporary traffic management design - WITHDRAWN		On Street																		Withdrawn	
533	040		Princes Street	500mm Water Main Diversion	To divert the water main from an OLE base	On Street	N/A	MO/RL	U/C	31/10/2011	INF CORR 7962	N/A	29/10/2011		£40,844.00			29/10/2011	CEC	31/10/2011			N/A N/A	Approval AC/TH e-mail - Superseded by TNC 535	
534	041	556	SP Insurance Ducts	Install insurance ducts at locations and in formations and sizes as specified	Provision of Scottish Power insurance ducts to fulfill the agreement with SP.	Off Street	Clause 80	AS/GMG	D/C	31/10/2011	INF CORR 7963	N/A	29/10/2011	23/02/2012	N/A	£6,011.29			30/04/2012	CEC	30/04/2012	£5,636.59	01/05/2012	INF CORR 8291	
535	040		Princes Street	500mm Water Main Diversion - rev 3.dwg	See TNC 533	On Street	Schedule 45	MO/RL	S/R	07/11/2011	INF CORR 7962	N/A	29/10/2011	08/11/2011					T&T					N/A	Replaces TNC 533
536	049	517	System Wide	Transpot Cabinets - reduction in 10 years maintenance liability	To meet cooling/heating reqts, cabinets to be IP 55 in lieu of IP45	Off Street	Clause 80	LM	D/C	09/11/2011	INF CORR 7959	N/A	05/12/2011	08/11/2011					T&T	07/12/2011	£0.00	08/12/2011	INF CORR 8006		
537			Haymarket 1	Additional visit of Tar planer to facilitate slewing of BT ducts - WITHDRAWN		Off Street								28/11/2011											Withdrawn
538	048	520	Tramwash Continuous Mode	Requirement for additional hand lances washers	The tram wash continuous mode may leave a small residual area to be cleaned	Off Street	Clause 80	GMG	C/R							£0.00			N/A	T&T	13/12/2011	£0.00	13/12/2011	INF CORR 8019	Previously issued as

TNC No.	PMC No.	ICO No.	Location	Description	Reason for Change	On Street / Off Street	Change 80 / Off Street Instruction	T&I Change Owner	Change Category DC/UC/UC/DR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate returned NY	Date Estimate received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued CEC/FAST	Approved BY CEC/FAST	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments	
639.1	144		On Street	York Place - Traffic Management Design	TM Design to allow commencement of work York Place.	On Street	Schedule 45	RL	DC	30/05/2012	INF CORR 8348	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		01/06/2012	CEC	01/06/2012		11/07/2012	INF CORR 8345	Added to issue by ZEC	
639.1	144		On Street	York Place - Traffic Management Design	TM Design to allow commencement of work York Place.	On Street	Schedule 45	RL	DC	18/06/2012	INF CORR 8390	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		11/06/2012	CEC	11/06/2012			N/A - Schedule 45		
639.2	144		On Street	York Place - Traffic Management Design	TM Design to allow commencement of work York Place.	On Street	Schedule 45	RL	DC	12/07/2012	INF CORR 8448	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		18/07/2012	CEC	18/07/2012			N/A - Schedule 45	URGENT TNC FOR YORK PLACE	
639.3	144		On Street	York Place - Rev CAECOM to complete Traffic signal/junction design	TM Design to allow construction to progress.	On Street	Schedule 45	RL	DC	14/08/2012	INF CORR 8515	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		13/08/2012	CEC	13/08/2012			N/A - Schedule 45		
639.4	144		On Street	Progress with Broughtons/Albany Street traffic signal/junction implementation. Take all necessary actions to facilitate the implementation of 1 speed TM on York Place.	York Place - Rev DTM implementation	On Street	Schedule 45	RL	DC	04/09/2012	INF CORR 8551	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		03/09/2012	CEC	03/09/2012			N/A - Schedule 45		
639.5	144		On Street	York Place - Change from MASS Barrier to Asset. Vainguard.	TM requirements	On Street	Schedule 45	RL	UC	19/11/2012	INF CORR 8775	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		19/11/2012	CEC	19/11/2012			N/A - Schedule 45		
639.6	144		On Street	York Place TM - Additional Signage	TM requirements	On Street	Schedule 45	RL	DC	12/12/2012	INF CORR 8851	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		10/12/2012	CEC	10/12/2012			N/A - Schedule 45		
639.7	144		On Street	York Place TM - Removed Signalisation Junction at Albany St/Broughton St	TM requirements	On Street	Schedule 45	RL	DC	07/02/2013	INF CORR 8923	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		04/02/2013	CEC						
640	140	536	Site Wide - Insurance of Uthling	Agreement on Method of Recovery for Uthling Insurance.	Method of Recovery for Insurance Premium.	Site Wide	Clause 80	GE	UC	30/05/2012	INF CORR 8342	06/09/2012	N	19/09/2012	N/A	TBA	None	29/09/2012	CEC	29/09/2012	TOD FOR RE-APPROVAL 5711	11/07/2012	INF CORR 8345	ISSN TRANSFER BETWEEN CEC AND BIS. DE-APPROVED TCO	
641	147, 224	630	On Street - Cathedral Lane	Omit - Refurbishment and Change of Use to Tram sub-station of Existing Toilets at Cathedral Lane. Add - following demolition by others of Existing Toilets at Cathedral Lane. The above work of tram sub-station will be associated with the construction of the Cathedral Lane Sub-station (construction of the Building Structure).	Construction TNC	On Street	Schedule 45	RL	DC	12/06/2012	INF CORR 8380	N/A	N		SCHEDULE 45 NOW CLAUSE 80		TBA	11/06/2012	CEC	11/06/2012	TOD FOR RE-APPROVAL 26.11.12	27/11/2012	INF CORR 8790		
641.1	147, 224	630	On Street - Cathedral Lane	Construction TNC	Construction TNC	On Street	Schedule 45	RL	DC	See TNC 641	See TNC 641	N/A	N		SCHEDULE 45 NOW CLAUSE 80		TBA	09/12/2012	CEC	09/12/2012	TOD FOR RE-APPROVAL 8.11.12	04/12/2012	INF CORR 8801		
642	178		On Street - York Place Temporary Tram Stop	Omit - Approx 88 m of outboard Thicket and associated temporary traffic management, site logistics, site clearance, road and pavement construction, drainage, road markings, Traffic signals to provide space for Temporary Tram Stop. Add - Construct temporary Tram Stop and associated site logistics, site clearance, road and pavement construction, drainage, road markings, temporary traffic management and Traffic Signals to create York Place Terminal Point all in accordance with IFC-Design.	Change of Scope for York Place.	On Street	Schedule 45	RL	DC	14/08/2012	INF CORR 8506	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		13/08/2012	CEC	13/08/2012			N/A - Schedule 45		
643	148	572	Off Street - Edinburgh Gateway	Edinburgh Gateway Construction 1. Testing and Proving Work on the Scottish Water Tower. 2. Construction of the Edinburgh Gateway. 3. Excavation and Foundations for the permanent Steel Road.	Construction TNC	Off Street	Clause 80	SL	DC	13/09/2012	INF CORR 8394	09/07/2012	N		SEE 577 REV B	SEE 572 REV B	TBA	18/06/2012	CEC	18/06/2012	SEE 577 REV B	13/06/2012	INF CORR 8394	Clause 80.15 TCO issued.	
643.1	148	572.1	Off Street - Edinburgh Gateway	Omit - Refurbishment and Change of Use to Tram sub-station of Existing Toilets at Cathedral Lane. Add - following demolition by others of Existing Toilets at Cathedral Lane. The above work of tram sub-station will be associated with the construction of the Cathedral Lane Sub-station (construction of the Building Structure).	Construction TNC	Off Street	Clause 80	SL	DC	ISSUED AS TCO	ISSUED AS TCO	ISSUED AS TCO	N		SEE 572 REV B	SEE 572 REV B	TBA	25/06/2012	CEC	25/06/2012	SEE 577 REV B	25/06/2012	INF CORR 8389	Clause 80.15 TCO issued.	
643.2	148	572.2	Off Street - Edinburgh Gateway	Undertake the Edinburgh Gateway works as per BIS report dated 9/08/2012, discussions during meeting on 20/9/2012 and the revised Construction Works Price received under cover letter 25.1.2013/5A/9744 dated 23/8/2012.	Progress with Edinburgh Gateway works	Off Street	Clause 80	SL	DC	ISSUED AS TCO	ISSUED AS TCO	ISSUED AS TCO	Y	10/08/2012	£3,269,844.00	£3,269,844.00	None	27/08/2012	CEC	27/08/2012	£3,416,010.40	28/08/2012	INF CORR 8538	New included design costs from previous TNCs	
644	98	581	On Street - On Street OLE poles	Finalise for On-Street poles	Construction TCO - Finalise part of schedule E Exclusions	On Street	Clause 80	RL	DC	27/06/2012	INF CORR 8411	N/A - already provided	Y	29/09/2012	N/A	£25,422.00	TBA	29/09/2012	CEC	29/09/2012	£25,422.00	27/06/2012	INF CORR 8411	AGREED BRIMS TO ISSUE. APPROVED AS BRIMS. APPROVAL WILL BE NEEDED TO BE REVISED BECAUSE OF PROBLEMS ON CASH WITH VERIFY HOUSE ROOF.	
645	145, 161, 162, 163, 165, 190, 220	N/A	On Street - Princess St	Outstanding Works	Client instruction to meet 29th June deadline	On Street	Schedule 45	RL	DC	06/09/2012	INF CORR 8354	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		11/06/2012	CEC	11/06/2012			N/A - Schedule 45	URGENT ISSUE TNC. EMAIL ISSUED 14/01/12. UNDER COVER LETTER 16/09/2012.	
646	149	N/A	On Street - Princess St	Cabinet Position for Street Lighting - Construction	Design Change	On Street	Schedule 45	RL	DC	12/06/2012	INF CORR 8382	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		11/06/2012	CEC	11/06/2012			N/A - Schedule 45		
647	150	577	On Street	Design work for VE on Carrington Reconstruction & Herb Realignment	Design Change	On Street	Clause 80	RL	DC	12/06/2012	INF CORR 8378	04/07/2012	Y	SEE 647 REV B	SEE 647 REV B	TBA	11/06/2012	CEC	11/06/2012	INCLUDED 577 REV F	12/06/2012	INF CORR 8378			
647.1	150	577.1	On Street	Design work for VE on Carrington Reconstruction & Herb Realignment. Design work for St Andrew Square North Cycle St to north of West Register Street	Design Change	On Street	Clause 80	RL	DC	10/07/2012	INF CORR 8488	03/08/2012	Y	SEE 647 REV B	SEE 647 REV B	TBA	09/07/2012	CEC	09/07/2012	INCLUDED 577 REV F	10/07/2012	INF CORR 8488			
647.2	150	577.2	On Street	REV B Design work for VE on Carrington Reconstruction & Herb Realignment. Rev A - Specific requirements for St Andrew Square North Cycle St to north of West Register Street revised to include the Utility Trial holes on cross sections	Design Change	On Street	Clause 80	RL	DC	06/09/2012	INF CORR 8488	30/08/2012	Y	28/08/2012	See Update for TCO 577.3	N/A	TBA	30/07/2012	CEC	30/07/2012	INCLUDED 577 REV F	06/08/2012	INF CORR 8488		
647.3	150	577.3	On Street	Review of Road Design - west side of South St Andrew Street	Design Change	On Street	Clause 80	RL	DC	14/08/2012	INF CORR 8509	07/09/2012	Y	see TCO 577 Rev D	see TCO 577 Rev D	TBA	06/08/2012	CEC	06/08/2012	INCLUDED 577 REV F	14/08/2012	INF CORR 8509			
647.4	150	577.4	On Street	Review of Road Design - west side of South St Andrew Street. TCO to agree estimate total to date.	Design Change	On Street	Clause 80	RL	DC	14/08/2012	INF CORR 8509	07/09/2012	Y	24/09/2012	£23,886.24	N/A	TBA	08/09/2012	CEC	08/09/2012	INCLUDED 577 REV F	11/10/2012	INF CORR 8580		
647.5	150	577.5	On Street	Further Development of Design for West side of St Andrew Square	Design Change	On Street	Clause 80	RL	DC	14/11/2012	INF CORR 8761	10/12/2012	Y	SEE TCO 577 Rev F	SEE TCO 577 Rev F	TBA	09/11/2012	CEC	13/11/2012	INCLUDED 577 REV F	14/11/2012	INF CORR 8761			
647.6	150	577.6	On Street	Further Development of Design for West side of St Andrew Square. TCO to agree estimate total to date.	Design Change	On Street	Clause 80	RL	DC	14/11/2012	INF CORR 8761	10/12/2012	Y	05/12/2012	£2,677,743.00	N/A	TBA	07/01/2013	CEC	07/01/2013	£2,677,743.00	09/01/2013	INF CORR 8551		
648	151	579	On Street - Princess St	Cabinet Position for Street Lighting - Design	Design Change	On Street	Clause 80	RL	DC	12/06/2012	INF CORR 8388	04/07/2012	N		N/A	N/A	TBA	11/06/2012	CEC	11/06/2012			N/A - Schedule 45		
649																									
650	152		On Street - Princess St	Construction.	Client instruction to meet 29th June deadline	On Street	Schedule 45	RL	DC	19/06/2012	INF CORR 8294	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45		18/06/2012	CEC	18/06/2012			N/A - Schedule 45		
651	153		Off Street - Trandosp	Trandosp Shelter Installation and Round delineation	Reduce Risk of Damage	Off Street	Clause 80	SM	DC	22/06/2012	INF 8388	17/07/2012	N		N/A	TBA	18/06/2012	CEC	18/06/2012						
651.1	153	625	On and Off Street - Trandosp	Trandosp Shelter Installation and Round delineation - Protection of Trandosp	Reduce Risk of Damage	On & Off Street	Clause 80	SM	DC	31/10/2012	INF CORR 8750	26/11/2012	Y	22/01/2013	£130,013.75	N/A	TBA	22/10/2012	CEC	22/10/2012			30/10/2012	INF CORR 8750	

TNC No.	PMC No.	ICO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 15 Instruction	T&T Change Owner	Change Category DC/LIC/CR/RR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned N/Y	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved BY CEC/ET	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments
652	122	580	Off Street - Depot	Maintenance of The Depot Workshop Equipment	Depot Maintenance Services do not form part of the Infrastructure Maintenance Services	Off Street	Clause 80	CL	CR	26/06/2012	INF CORR 8409	N/A	Y	N/A	N/A - Maintenance Cost	N/A - Maintenance Cost	None	25/06/2012	CEC	25/06/2012	£49,633.41	26/06/2012	INF CORR 8409	
653	156	588	On Street - York Place	Provide IFC Drawings in DWG CAD format	Planning Requirements	On Street	Clause 80	RL	DC	22/06/2012	INF CORR 8406	17/07/2012	N	09/08/2012	£4,923.56	N/A		18/06/2012	CEC	18/06/2012		22/06/2012	INF CORR 8406	TNC + TCO withdrawn, no longer a requirement
654			On Street - Princes St	Re-scope coloured surfacing	Avoidance potential Maintenance issue	On Street	Schedule 45	RL	DC									18/06/2012	CEC	18/06/2012				NO NOT ISSUE TNC 654 ALREADY COVERED
655	136	632	Off Street - Murrayfield Tram Stop	Additional CCTV & PA coverage - Installation Cost Only	Following mediation 2 Nr TVM's relocated from tramstop platform to the ground floor requiring another CCTV to be placed to cover TVM	Off Street	Clause 80	CL	DC	10/07/2012	INF CORR 8439	03/08/2012	Y	31/10/2012	N/A	£38,158.00	TBA	03/07/2012	CEC	03/07/2012	£19,975.00	22/01/2013	INF CORR 8886	
656	154		On Street - Tramstops	Tramstop Shelter Installation and Fit-out deferment - REFER TO TNC 651	Reduce Risk of Damage	On Street	Clause 80	RL	CR	22/06/2012	INF CORR 8399	17/07/2012	N	SEE TNC 651	N/A	SEE TNC 651	SEE TNC 651	25/06/2012	CEC	25/06/2012	SEE TNC 651	SEE TNC 651	SEE TNC 651	REFER TO TNC 651, DEFERMENT FOR OFF AND ON STREET TRAM STOP NOW UNDER TNC 651
657	155	582	On Street - Princes St	Scottish Water As Built Drawings	Client instruction to meet 29th June deadline	On Street	Clause 80	RL	CR	22.6.12	INF CORR 8400	17/07/2012	Y	SEE TCO 582 Rev A	SEE TCO 582 Rev A	N/A	TBA	25/06/2012	CEC	25/06/2012	SEE TCO 582 Rev A	22/06/2012	INF CORR 8400	
657.1	155	582.1	On Street - Princes St	Scottish Water As Built Drawings: TCO 582 Rev A, raised to agree estimate submitted under TNC	Client instruction to meet 29th June deadline	On Street	Clause 80	RL	CR	22.6.12	INF CORR 8400	17/07/2012	Y	29/08/2012	£3,271.33	N/A	TBA	08/10/2012	CEC	08/10/2012	£3,271.33	11/10/2012	INF CORR 8681	
658	185		On Street - Shandwick Place	Shandwick Place Wall - De scope	Transfer Works to others	On Street	Schedule 45	RL	UC	15/08/2012	INF CORR 8520	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	13/08/2012	CEC	13/08/2012		N/A - Schedule 45	N/A - Schedule 45	
659	175		On Street - Shandwick	Road Signage - Junction Manor Place/Melville St	Road Closures Ahead	On Street	Schedule 45	RL	CR	26/12/2012	INF CORR 8407	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	None	25/06/2012	CEC	25/06/2012		N/A - Schedule 45	N/A - Schedule 45	
660	176		On Street - Princes St	Princes St - Traffic Management	Traffic Management Update	On Street	Schedule 45	RL	CR	28/12/2012	INF CORR 8414	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	03/07/2012	CEC	03/07/2012		N/A - Schedule 45	N/A - Schedule 45	
660.1	176		On Street - Princes St	Princes St - Traffic Management: Rev A maintenance of temporary CAT posts at Princes St tramstop	Maintenance Requirements for Temporary CAT posts	On Street	Schedule 45	RL	CR	14/08/2012	INF CORR 8511	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	06/08/2012	CEC	06/08/2012		N/A - Schedule 45	N/A - Schedule 45	
660.2	176		On Street - Princes St	Princes St - Traffic Management: Rev B Removal of Princes St Warning Signs for Cyclists	Maintenance Requirements for Temporary CAT posts	On Street	Schedule 45	RL	CR	02/10/2012	INF CORR 8657	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	01/10/2012	CEC	01/10/2012				
661			Off Street - Gogar Roundabout Signage	Blank off the Tram Depot text on all signage associated with the Gogar Roundabout A9/Edinburgh Bypass Interchange		Off Street	Clause 80	SM	CR									03/07/2012						ON HOLD, NEED FURTHER INFORMATION ON REASON
662	169	590	Off Street - Section 7A	Eastfield Avenue - Topographical Survey	Carry out check on levels	Off Street	Clause 80	SM	CR	11/07/2012	INF CORR 8442	03/08/2012	Y	09/10/2012	SEE TCO 590 Rev A	N/A	TBA	09/07/2012	CEC	09/07/2012	SEE TCO 590 Rev A	11/07/2012	INF CORR 842	80.15 TCO issued
662.1	169	590 Rev A	Off Street - Section 7A	Eastfield Avenue - Topographical Survey	Carry out check on levels	Off Street	Clause 80	SM	CR	11/07/2012	INF CORR 8442	03/08/2012	Y	See TNC 662	£2,586.95	N/A	TBA	10/12/2012	CEC	10/12/2012	£2,586.95	11/12/2012	INF CORR 8810	TCO issued with agreed value, also covers TN C674
663	121	586	Off Street - Depot	Purchase of Heras Fencing surrounding Mini Test Track at Gogar Depot	Prevent access to mini test track during Tram Testing and Commissioning	Off Street	Clause 80	SM	UC	16/07/2012	INF CORR 8454	N/A	Y	31.5.2012	N/A	£6,423.88	None	03/07/2012	CEC	03/07/2012	£6,423.88	16/07/2012	INF CORR 8454	
664	203	591	Off Street - Gogar Castle Access Road	Additional Area of High Friction Surfacing	Construction Works following Road Safety Audit	Off Street	Clause 80	CL	DC	06/09/2012	INF CORR 8562	01/10/2012	Y	09/10/2012	N/A	SEE TCO 591 Rev A		08/09/2012	CEC	08/09/2012	SEE TCO 591 Rev A	06/09/2012	INF CORR 8562	
664.1	203	591 Rev A	Off Street - Gogar Castle Access Road	Additional Area of High Friction Surfacing: TCO 591 Rev A raised to agree change	Construction Works following Road Safety Audit	Off Street	Clause 80	CL	DC	see TNC 664	see TNC 664	see TNC 664	see TNC 664	see TNC 664	N/A	£3,186.34		22/10/2012	CEC	22/10/2012	£3,186.34	06/11/2012	INF CORR 8756	
665	184		On Street - Princes St	Removal of Princes Street "plug"	Additional works required to decommission equipment required to facilitate the plug	On Street	Schedule 45	RL	UC	14/08/2012	INF CORR 8504	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	13/08/2012	CEC	13/08/2012		N/A - Schedule 45	N/A - Schedule 45	
665.1	184		On Street - Princes St	Removal of Princes Street "plug": Rev A Advisory diversion signage for the closure of York Place should be modified to reflect that the signed route to/from Queen St will be via North/South St David Street and Princes St	Additional works required to decommission equipment required to facilitate the plug	On Street	Schedule 45	RL	UC	21/08/2012	INF CORR 8528	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	20/08/2012	CEC	20/08/2012		N/A - Schedule 45	N/A - Schedule 45	
665.2	184		On Street - Princes St	Removal of Princes Street "plug": Rev B Further works required east of plug	Additional works required to decommission equipment required to facilitate the plug	On Street	Schedule 45	RL	UC	26/09/2012	INF CORR 8638	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	10/09/2012	CEC	10/09/2012		N/A - Schedule 45	N/A - Schedule 45	
666	173	589	Off Street - Section 5A	Provide a Pedestrian Gate next to the Vehicle access gate at the Scotrail Depot	Request to Provide Pedestrian Access	Off Street	Clause 80	SM	UC	19/07/2012	INF CORR 8468	14/08/2012	Y	09/10/2012	N/A	£4,905.64		16/07/2012	CEC	16/07/2012		19/07/2012	INF CORR 8468	INF CORR 8468 (80.15 TCO)
666.1	173	589 Rev A	Off Street - Section 5A	Provide a Pedestrian Gate next to the Vehicle access gate at the Scotrail Depot	Request to Provide Pedestrian Access	Off Street	Clause 80	SM	UC	19/07/2012	INF CORR 8468	14/08/2012	Y	09/10/2012	N/A	£4,905.64	TBA	17/12/2012	CEC	17/12/2012	£4,905.64	18/12/2012	INF CORR 8882	
667	170	594	Off Street - Site Wide	Call off Service to respond to Network Rail Technical Queries and Interface issues on the ETN	Set up call off service to deal with ongoing Network Rail Technical Queries and interface issues	Off Street	Clause 80	SL	UC	11/07/2012	INF CORR 8446	TIME CHARGE TNC	Y	07/08/2012	£9,456.49	N/A	TBA	09/07/2012	CEC	09/07/2012		11/07/2012	INF CORR 8446	TNC/TCO for Call Off Service to deal with Network Rail Queries, some items incorrectly allocated, estimate should be reduced to £6k, remainder re-allocated to TNC 615
667.1	170	594.1	Off Street - Site Wide	Call off Service to respond to Network Rail Technical Queries and Interface issues on the ETN: Rev A - Uplift N/exceed value to £ 15k	Set up call off service to deal with ongoing Network Rail Technical Queries and interface issues	Off Street	Clause 80	SL	UC	06/09/2012	INF CORR 8563	TIME CHARGE TNC	N			N/A	TBA	03/09/2012	CEC	03/09/2012		06/09/2012	INF CORR 8563	Not to exceed value increased to £ 15k
667.2	170	594.2	Off Street - Site Wide	Call off Service to respond to Network Rail Technical Queries and Interface issues on the ETN: Rev B - Additional scope item to move traffic light	Clash with stair access to Morgan Sindals site office	Off Street	Clause 80	SL	UC			TIME CHARGE TNC	Y	05/12/2012	£9,092.67	N/A	TBA	25/09/2012	CEC	25/09/2012				
668	171	595	On Street - York Place	De-soping of Infraco works for Transfer to Crummock	Programme Mitigation and Cost Engineering Proposals	ON STREET	Clause 80	RL	CR	12/07/2012	INF CORR 8447	N/A - AGREED	Y	N/A - AGREED	N/A	-£1,015,155.80	TBA	16/07/2012	CEC	16/07/2012	-£1,015,155.80	12/07/2012	INF CORR 8447	URGENT TNC/TCO FOR YORK PLACE, CEC APPROVED TO ISSUE

TNC No.	PMAC No.	LOC No.	Description	Reason for Change	On Street / Off Street	Change 80 / Off Street	T&E Change Owner	Change Category D/O/C/U/R	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned NY	Date Estimate Received	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved BY CEC/EAT	Date Approved / Rejected	Agreed On for Approved / Contract Changes	Date TCO Approved	100 Letter Ref	Comments		
659	139	622	Off Street - Section 6	659 Remedial Works - backfill at New Inflation Land	Budget following 50th diversion works	Off Street	SJ	UC	17/07/2012	INF CORR 8489	10/08/2012	Y	10/10/2012	N/A	E18,063.95	TBA	15/07/2012	CEC	16/07/2012	16063.95	16/12/2012	INF CORR 8587		
670	137	592	On Street - Princess St Road Safety Audit	SOS Response to ISA for Princess St	Required to enable CEC to conduct Road Safety Audit.	On Street	RL	CR	06/09/2012	INF CORR 8488	30/09/2012	Y	30/09/2012	SEE TCO 592 REV A	TBA	23/07/2012	CEC	23/07/2012		06/09/2012	INF CORR 8488	ISSUED AS CAUSE B013 TOO.		
670.1	177	592.1	On Street - Princess St Road Safety Audit	SOS Response to ISA for Princess St TCO 592 Rev A to agree estimate amount submitted under TNC	Required to enable CEC to conduct Road Safety Audit.	On Street	RL	CR	06/09/2012	INF CORR 8488	30/09/2012	Y	30/09/2012	E15,010.71	TBA	09/10/2012	CEC	09/10/2012	E15,010.71	11/10/2012	INF CORR 8585			
671	207	597	Off Street - Speed Rail	Scottish (New) Car Park Security Fence	Prevent un-authorized access to car park	Off Street	SMI	UC	22/07/2012			N	07/10/2012							07/09/2012	INF CORR 8587	TNC AND TCO IN DRAFT CURRENTLY UNDER DISCUSSION		
672	207	608	On Street - Driveway Design	Review and revise P&S (ULES0330-UL-ONE 00016, 17, 18, 22, 23 and 24) to show the layout required to avoid utilities.	Significant utilities located within this area impacting the current proposed design.	On Street	RL	UC	06/09/2012	INF CORR 8587	07/10/2012	N	07/10/2012		TBA	27/08/2012	CEC	27/08/2012	TCO for CEC Approval on 10.9.12	06/09/2012	INF CORR 8587			
672.1	207	608.1	On Street - Driveway Design	Review and revise P&S (ULES0330-UL-ONE 00016, 17, 18, 22, 23 and 24) to show the layout required to avoid utilities. Rev A TCO with re-faced value of £ 8k.	Significant utilities located within this area impacting the current proposed design.	On Street	RL	UC	See TNC 672 + TCO 608		N	N	See TNC 672 + TCO 608		TBA				TCO for CEC Approval on 8.10.12	11/10/2012	INF CORR 8575			
672.2	207	608.2	On Street - Driveway Design	Review and revise P&S (ULES0330-UL-ONE 00016, 17, 18, 22, 23 and 24) to show the layout required to avoid utilities. Rev B TCO with re-faced value of £ 18k, to take to Phase 2.	Significant utilities located within this area impacting the current proposed design.	On Street	RL	UC	See TNC 672 + TCO 608		N	N	See TNC 672 + TCO 608		TBA					14/11/2012	INF CORR 8568			
673	76	598	Site Wide	General Order for CLE poles required for section Secondary Phase 1a	Track no longer goes beyond York Place	Off Street	GE	CR	13/09/2012	INF CORR 8502	N/A - Estimate already provided	N/A	25.7.2012	N/A	-541,798.00	None	23/07/2012	CEC	23/07/2012	-541,798.00	13/09/2012	INF CORR 8502		
674	159	590 Rev A	Off Street	Topogical Survey at Edinburgh Avenue - (CEB14)	Provide CAD and pdf drawings	Off Street	SJ	UC	06/09/2012	INF CORR 8590	30/09/2012	Y	09/10/2012	SEE TNC 662	TBA	30/07/2012	CEC	30/07/2012	SEE TNC 662	13/09/2012	INF CORR 8502	SEE TNC 662		
675	132	648	ScotRail Depot	Remove the concrete around the water meter at the scotrail Depot.	Obtain Scottish Water approval and sign off the asset	Off Street	SJ	UC	14/09/2012	INF CORR 8513	07/09/2012	Y	12/10/2012	N/A	E12,507.35	N/A	08/09/2012	CEC	08/09/2012	E12,507.35	22/02/2013	INF CORR 8595		
676	134	On Street - York Place	Provide drawing to accommodate works at Lond Road Bar	CEC agreed remedial / improvement works to Lond Road Bar	On Street	RL	CR	CR	17/08/2012	INF CORR 8527	13/09/2012	Y	13/09/2012	N/A					09/09/2012	CEC	09/09/2012			
677	188	Buses on Londown Crescent	Rease arrange to have 50mph roundabout at Londown Crescent	Advisory 50 mph speed restriction	On Street	RL	CR	CR	14/09/2012	INF CORR 8503	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					04/09/2012	N/A - Schedule 45			
678	182	York Place TM	Temporary Traffic Management Design to keep Buses Station Access Open, New A Two-way access for peak On-bus stopping period	Assessing impact on Turn Circle of keeping access to the bus station open	On Street	RL	CR	CR	14/09/2012	INF CORR 8505	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					13/09/2012	N/A - Schedule 45			
678.1	182	York Place TM	Temporary Traffic Management Design to keep Buses Station Access Open, New A Two-way access for peak On-bus stopping period	Assessing impact on Turn Circle of keeping access to the bus station open	On Street	RL	CR	CR	21/09/2012	INF CORR 8529	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					20/09/2012	N/A - Schedule 45			
678.2	182	York Place TM	Temporary Traffic Management Design to keep Buses Station Access Open, New A Two-way access for peak On-bus stopping period	Clarify traffic modelling / requirement	On Street	RL	CR	CR	04/09/2012	INF CORR 8552	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					03/09/2012	N/A - Schedule 45			
678.3	182	York Place TM	Temporary Traffic Management Design to keep Buses Station Access Open, New A Two-way access for peak On-bus stopping period	Suggestions from Bus Station Manager	On Street	RL	CR	CR	13/09/2012	INF CORR 8576	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					10/09/2012	N/A - Schedule 45			
679	181	601	Depot	18 Non Compliance	Prevent Water Signaling	Off Street	SMI	UC	14/09/2012	INF CORR 8508	07/09/2012	Y	29/10/2012	0	E0.00	None				13/09/2012	CEC	13/09/2012	INF CORR 8508	related TCO with approval for CEC approval 05/11/2012
679.1	181	601 Rev A	Depot	18 Non Compliance	Prevent Water Signaling	Off Street	SMI	UC	14/09/2012	INF CORR 8508	07/09/2012	Y	29/10/2012	0	E0.00	None				13/09/2012	CEC	13/09/2012	INF CORR 8508	
680	180	On Street - Coates Crescent	Bus Burning, angle lane.	Stakeholder management.	On Street	RL	CR	CR	13/09/2012	INF CORR 8510	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					13/08/2012	N/A - Schedule 45			
682	179	On Street	Provide heading Design for Link Base	Design for Coaches to be constructed	On Street	RL	UC	UC	14/09/2012	INF CORR 8507	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					14/09/2012	N/A - Schedule 45		TNC TO BE WITHDRAWN AS CARRIED UNDER THE CONTRACT	
683	179	Off Street	Type 2 Diversion Street Lighting, Road Signage & Traffic Signal Scope	Avoid disruption to infra as a result of issues associated with the above scope.	Off Street	SMI	UC	UC	14/09/2012	INF CORR 8507	12/10/2012	N	12/10/2012	N/A						13/09/2012	CEC	13/09/2012	N/A - Schedule 45	
683.1	214	604.1	Off Street	Trial Infesto to locate 125mm diameter pipe at Depot	To confirm to SW the pipe is outwith DCE 2 and risk in the route of trees / CLE foundations	Off Street	SMI	UC	14/09/2012	INF CORR 8582	12/10/2012	Y	11/07/2013							13/09/2012	CEC	13/09/2012	INF CORR 8582	8013 TCO
684	195	621	Off Street	Damaged utility trough cover abse	To confirm to SW the pipe is outwith DCE 2 and risk in the route of trees / CLE foundations	Off Street	SMI	UC	14/09/2012	INF CORR 8582	12/10/2012	Y	12/10/2012	E0.00						21/07/2013	INF CORR 8580	E3,348.00		
685	197	603	Lindsay Road	Provide information on Lindsay Road	Finalise the design of abse caused by CAP debris at X800.	Off Street	CL	UC	20/09/2012	INF CORR 8534	13/09/2012	Y	09/10/2012							13/09/2012	INF CORR 8501	E938.27		
685.1	197	603.1	Lindsay Road	Provide information on Lindsay Road	Enable completion of Lindsay Road by CEC	Off Street	MA	CR	21/09/2012	INF CORR 8531	14/09/2012	Y	05/10/2012	E7,090.34	N/A					13/09/2012	CEC	13/09/2012	INF CORR 8531	SEE TCO 603 REV A
686	200	On Street	Alter kerb next to CEC Connection Manhole	Machite Cover and frame impact the kerb line	On Street	RL	UC	UC	04/09/2012	INF CORR 8544	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA									
687	202	On Street	Revision to Appendix 11/1 for kerb Type	Introduction of new kerb Whinose kerb	On Street	RL	UC	UC	06/09/2012	INF CORR 8559	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA									
688	204	On Street	Discope of footway outside Athol & Coates Crescent	Value engineering - re soaping, work	On Street	RL	CR	CR	06/09/2012	INF CORR 8561	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA									
689	215	609	On Street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Busing and Chambers to avoid utilities.	Significant utilities located within this area impacting the current IFC design.	On Street	RL	UC	13/09/2012	INF CORR 8581	09/10/2012	N		N/A						27/09/2012	CEC	27/09/2012	INF CORR 8581	TCO for CEC approval on 10.9.12
689.1	215	609.1	On Street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Busing and Chambers to avoid utilities. Rev C	Significant utilities located within this area impacting the current IFC design.	On Street	RL	UC	see issue TNC 688H TCO 609 689 + TCO 609 609		N	N	see issue TNC 688H TCO 609 689 + TCO 609 609		TBA					11/10/2012	INF CORR 8574	TCO for CEC approval on 8.10.12		
689.2	215	609.2	On Street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Busing and Chambers to avoid utilities. Rev D	Significant utilities located within this area impacting the current IFC design.	On Street	RL	UC	see issue TNC 688H TCO 609 689 + TCO 609 609		N	N	see issue TNC 688H TCO 609 689 + TCO 609 609		TBA					14/11/2012	INF CORR 8769	TCO for CEC approval on 8.10.12		
689.3	215	609.3	On Street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Busing and Chambers to avoid utilities. Rev E	Significant utilities located within this area impacting the current IFC design.	On Street	RL	UC	see issue TNC 688H TCO 609 689 + TCO 609 609		N	N	see issue TNC 688H TCO 609 689 + TCO 609 609		TBA					29/01/2013	INF CORR 8886	TCO for CEC approval on 21.11.13		
689.4	215	609.4	On Street	Provide CAD resource and engineering support to revise drawings to show the layout required for Road Sign Bases, Street Light Columns, Traffic Signal Poles, Busing and Chambers to avoid utilities. Rev F	Significant utilities located within this area impacting the current IFC design.	On Street	RL	UC	see issue TNC 688H TCO 609 689 + TCO 609 609		N	N	see issue TNC 688H TCO 609 689 + TCO 609 609		TBA					12/02/2013	INF CORR 8840	TCO for CEC approval on 11.2.13		
690	199	606	Off Street	Remedial work to repair West Shunt Line Hydrant Depot	Bring current Network Rail Infrastructure to a standard which will allow BS2 to rectify any remaining work caused by a risk of the infra	Off Street	SMI	UC	30/09/2012	INF CORR 8559	25/09/2012	Y	03/10/2012	N/A	E76,413.27	TBA	27/09/2012	CEC	29/09/2012	SEE TCO 606 REV A	30/09/2012	INF CORR 8559		
690.1	199	606.1	Off Street	Remedial work to repair West Shunt Line Hydrant Depot	Bring current Network Rail Infrastructure to a standard which will allow BS2 to rectify any remaining work caused by a risk of the infra	Off Street	SMI	UC	30/09/2012	INF CORR 8559	25/09/2012	Y	03/10/2012	N/A	E76,413.27	N/A	15/10/2012	CEC	15/10/2012		29/10/2012	INF CORR 8702	E76,413.27	
691	205	605	On Street	Defect at Lane re-5887	Reduction of construction works	On Street	RL	DC		INF CORR 8535	04/10/2012	N								27/09/2012	CEC	27/09/2012	INF CORR 8535	
692	201	On Street	Installation of additional measures around St. James Centre car park.	Prevent persons reverse into car park through the exit lane.	On Street	RL	CR	CR	04/09/2012	INF CORR 8553	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA					03/09/2012	CEC	03/09/2012		

TNC No.	PMC No.	ICD No.	Location	Description	Reason for Change	On Street / Off Street	Change 80 / Off Schedule 45 Instruction	T&E Change Owner	Change Category DC/UC/GR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned NY	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved BY CEC/PAV	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date ICD Issued	100 Letter Ref	Comments	
893	205		On street	Footway and kerbing reinstatement along about stretches.	Reinstatement Following Utility Diversion Work	On Street	Schedule 45	RL	UC	06/09/2012	INF CORP 8550		N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	03/09/2012	CEC	03/09/2012						
894	210	607	On street	Traffic light de-scope to West St. And row 8.	Remove Systems because from TNC 500 and achieve early agreement on saving on ETN.	On Street	Clause 80	RL	CR	26/09/2012	INF CORP 8608	22/10/2012	Y	01/10/2012	N/A	-£3,88,940.00		26/09/2012	CEC	25/09/2012	TOD for CEC approval 8.10.12	11/10/2012	INF CORP 8683		
895	217	613	Off Street	Tender Access Edinburgh Airport	Edinburgh Airport have requested the bar remain so they have access for their tamen.	Off Street	Clause 80	SM	UC	18/09/2012	INF CORP 8588	12/10/2012	N					03/09/2012	CEC	03/09/2012	80.15 TOD for CEC approval 1.20.2012			80.15 TOD	On hold pending discussion between CEC / EAL on funding
895.1	217	613.1	Off Street	Tender Access Edinburgh Airport	Edinburgh Airport have requested the bar remain so they have access for their tamen.	Off Street	Clause 80	SM	UC	18/09/2012	INF CORP 8588	12/10/2012	Y	18/01/2012	na	£1,445.47	na	03/09/2012	CEC	03/09/2012	TOD for CEC approval 1.20.2012				On hold pending discussion between CEC / EAL on funding
896	226	616	Off Street	As built drawing for S&K work between Ingleton path and ride and removed to Clifton Terrace kerb and footway	Provide new lighting with a copy of the As built drawing for S&K work between Ingleton path and ride and removed to Clifton Terrace kerb and footway	Off Street	Clause 80	SM	UC	12/10/2012	INF CORP 8626	06/11/2012	Y	17/07/2012	N/A - Schedule 45	N/A - Schedule 45	N/A	09/10/2012	CEC	09/10/2012	TOD for CEC approval 11-05-2013		N/A - Schedule 45		ICC for CEC approval 11-02-2013
897	221		On Street	Removal of Contaminated Material in 814	Removal of Contaminated Material	On Street	Schedule 45	RL	PAV		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	N/A - Schedule 45	PAV				N/A - Schedule 45		
898	191		On Street	Pedestrian walkway from Haymarket Station	Provide temporary pedestrian walkway.	On Street	Schedule 45	RL	CR	7/9/12	INF CORP 8588	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A	N/A	TBA	10/09/2012	CEC	10/09/2012			N/A - Schedule 45		
899	218		On Street	Hoop Street Construction Works	Provide separate TNC from Design	On Street	Schedule 45	RL	DC	10.10.2012	INF CORP 8679	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	See TNC 571	N/A - Schedule 45	TBA	10/09/2012	CEC	10/09/2012			N/A - Schedule 45		
701	215	614	Off Street	Reinstatement works at the Airport	Reinstatement works agreed with Edinburgh Airport	Off Street	Clause 80	SM	CR	18/09/2012	INF CORP 8586	12/10/2012	N				TBA	10/09/2012	CEC	10/09/2012	TOD for CEC approval 1/10/2012				
701.1	215	614	Off Street	Reinstatement works at the Airport	Reinstatement works agreed with Edinburgh Airport	Off Street	Clause 80	SM	CR	18/09/2012	INF CORP 8586	12/10/2012	N				TBA	10/09/2012	CEC	26/11/2012					
702	215	615	Off Street	Eastfield Avenue Pedestrian Crossing	Reinstatement of current crossing point, as requested by CEC	Off Street	Clause 80	SM	UC	18/09/2012	INF CORP 8587	12/10/2012	Y	12/10/2012	N/A - Schedule 45	£24,561.53	TBA	10/09/2012	CEC	10/09/2012	TOD for CEC approval 11/07/2012				80.15 TOD to CEC
702.1	215	615.1	Off Street	Eastfield Avenue Pedestrian Crossing	Modify gradient of current crossing point, as requested by CEC	Off Street	Clause 80	SM	UC	18/09/2012	INF CORP 8587	12/10/2012	Y	12/10/2012	N/A - Schedule 45	£24,561.53	TBA	14/01/2013	CEC	14/01/2013	£24,561.53		18/01/2013	INF CORP 8678	ICC with agreed value
703	209	610	Off Street	Repair Switch Rail at Depot	Switch Rail Damaged	Off Street	Clause 80	SM	UC	27/09/2012	INF CORP 8645	22/10/2012	N				None	10/09/2012	CEC	10/09/2012	80.15 TOD issued				
703.1	209	610.1	Off Street	Repair Switch Rail at Depot	Switch Rail Damaged by Unbrown	Off Street	Clause 80	SM	UC	27/09/2012	INF CORP 8645	22/10/2012	Y	09/11/2012	na	£881.00	None	19/11/2012	CEC	19/11/2012	80.15 TOD issued		20/11/2012	INF CORP 8779	

TNC No.	PMC No.	IOO No.	Location	Description	Reason for Change	On Street / Off Street	Change #/ Instruction	T&E Change Owner	Change Category D/C/U/C/QR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned NY	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved By CEC/T&E	Date Approved/Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	100 Letter Ref	Comments
704	212	612	On Street	Redesign of St. Andrew Square East	Minimize amount of utility diversion work required	On Street	Change 80	RL	UC	13/09/2012	INF CORR 8578	09/10/2012	N				TBA	DEC	03/09/2012		13/09/2012	INF CORR 8579	Note: approved by CEC as revision to TNC 647 (Rev D) and TCO 277 (Rev D). BBS requests to refer to new TNC and TCO number. Letter now issued to withdraw the TNC and TCO on 18.10.12.	
705	93	626	Off Street	Re-design works due to NMR fence encroaching into the LOB	Re-design work required	Off Street	Change 80	SM	DC	26/09/2012	INF CORR 8607	22/10/2012	Y	04/01/2013	£13,669.05			DEC	25/09/2012		25/09/2012	INF CORR 8608		
706			On Street	Bank TNC number not to be used in Bank		On Street	Schedule 45	RL	UC	27/09/2012	INF CORR 8609	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		None	DEC	25/09/2012			N/A - Schedule 45		
707	222		On Street	On Street Traffic Management - adjacent Apple store	Required BBS to re-align her fence to head over the pedestrian route prior to handover of the transport	On Street	Schedule 45	RL	UC	19/11/2012	INF CORR 8777	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		None	DEC	12/11/2012			N/A - Schedule 45		
707.1	222		On Street	On Street Traffic Management - adjacent Apple store - Rev A (rather than BBS, TRG and Lottier buses to modify the S15 design as the original design contained installed bollards to prevent buses from entering the Store area. The bollards are now to be removed and the bollards are in a different position to that shown on the S15 Drawing	Following TMWP meeting, agreement by CEC, BBS, TRG and Lottier buses to modify the S15 design as the original design contained installed bollards to prevent buses from entering the Store area. The bollards are now to be removed and the bollards are in a different position to that shown on the S15 Drawing	On Street	Schedule 45	RL	UC	19/11/2012	INF CORR 8777	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		None	DEC	12/11/2012			N/A - Schedule 45		
708	229	616	Side Walk	RealCom Software Interface	Change to section 35 of Employer's requirements to recognise change to TMW software from web to hybrid (desktop) at central request	On Street	Change 80	SM	UC	09/10/2012	INF CORR 8663	N/A - Nil Value TCO	N/A - Nil Value TCO		N/A - Nil Value TCO		None	DEC	01/10/2012		E0.00	04/10/2012	INF CORR 8663	
709	344	617	Off Street	Southal Car path landscaping	Request for path to be landscaped at	On Street	Change 80	SM	UC	14/12/2012	INF CORR 8687	22/01/2013	N	25/09/2013 (penal)			None	DEC	01/10/2012			22/01/2013	INF CORR 8688	On hold - further discussion with other Business Meeting. Deposit on 05/10/2012, instead of through BBS
710			Off Street - Outer Depot	Repair areas of damaged flooring	Damage noted on 06/02/12 issued	Off Street	Change 80	CL	UC									DEC	Revised					
711	229	636	Off Street	Deletion of fence at Murrayfield transport and installation of fence at Royal Mile and Scottal car park	Murrayfield fence not required, temporary fence to be replaced by permanent fence at Scottal / Royal Mile to make car park secure	Off Street	Change 80	SM	UC	30/10/2012	INF CORR 8749	23/11/2012	N	09/01/2013			None	DEC	15/10/2012		E0.00	09/01/2013		
712	230	634	Off Street	New fence and ramp at MWFC	Accommodation works	Off Street	Change 80	SM	UC	25/10/2012	INF CORR 8756	22/11/2012	Y	27/11/2012		£54,762.03		DEC	15/10/2012			09/01/2013	INF CORR 8850	
712.1	230		Off Street	New fence and ramp at MWFC	Accommodation works	Off Street	Change 80	SM	UC								None	DEC	21/01/2013					
713	228	638	Off Street	Haymarket construction works outside LOB	Construction works outside LOB	Off Street	Change 80	SM	DC	20/10/2012	INF CORR 8708	15/11/2012	Y	05/12/2012		£117,946.86		DEC	15/10/2012			22/01/2013	INF CORR 8859	
714	252	640	Off Street	Edinburgh Park Central - Light	Additional duct to be installed between the rear central panel at the site and the existing (02)P/W	Off Street	Change 80	SM	DC	05/11/2012	INF CORR 8748	29/11/2012	Y	16/01/2013	£14,644	TBC		DEC	15/10/2012		TCO for CEC approval 4/2/2013			
714	252	640.1	Off Street	Edinburgh Park Central - Lights	Additional duct to be installed between the rear central panel at the site and the existing (03)P/W	Off Street	Change 80	SM	DC	05/11/2012	INF CORR 8748	29/11/2012	Y	16/01/2013	£14,644			DEC	15/10/2012		TCO for CEC approval 29/2/2013			
715			Off Street	Edinburgh Park Vespene North sublimit	Change in chisling finish	Off Street	Change 80	SM	DC									DEC	22/10/2012					
716	211	N/A - Schedule 45	On Street	On Street Building Things	On Street Schedule E exclusion	On Street	Schedule 45	RL	DC	29/10/2012	INF CORR 8737	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		None	DEC	22/10/2012					
717	208	630	Side Walk	Cost Engineering in respect of the programme	Cost Engineering	Side Walk	Change 80	CS	OR	N/A - TNC for reference only	N/A	N/A	N/A		N/A		Y	N/A	N/A					
718	233		High Friction Surfacing	De-Scope Waverley Bridge	High Friction Surfacing De-Scope Waverley Bridge	On Street	Schedule 45	RL	DC	07/11/2012	INF CORR 8759	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		TBA	DEC	09/11/2012					
719	172	637	Side Walk	Free Collection Equipment - Confirmation of requirements	Installation of Free Collection Equipment	Side Walk	Change 80	WD	DC	20/11/2012	INF CORR 8782	14/12/2012	Y	17/01/2013	£13,709.89			DEC	12/11/2012					
720			Trash Compactor within Scottal Depot	Crash between Compactor Gate and automatic sliding Security gate	When the compactor gate opens it will crash with the automatic sliding security gate.	Off Street	Change 80	SM	DC									DEC	12/11/2012					
721	254	626	Depot to Airport	Installation of section isolators on the MITT.	Ensure that training and other operational requirements are met for the MITT. Training (ETI) can be integrated with BBS Test & Commissioning requirements	Off Street	Change 80	CL	UC	19/11/2012	INF CORR 8780	13/12/2012	N				TBA	DEC	19/11/2012					
721.1	254	626.1	Depot to Airport	Installation of section isolators on the MITT.	Ensure that training and other operational requirements are met for the MITT. Training (ETI) can be integrated with BBS Test & Commissioning requirements	Off Street	Change 80	CL	UC	19/11/2012	INF CORR 8780	13/12/2012	Y				TBA	DEC	07/01/2013					
722	245		On Street	De-scope Bus shelters, Bus Trainers and associated power supplies	De-scope bus shelters by others	On Street	Schedule 45	RL	UC	18/12/2012	INF CORR 8858	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		TBA	DEC	17/12/2012					
723	236	641	On Street	Traffic Management - Princes St. Road Safety Audit for release of full Princes St plug	Road Safety Audit to enable Princes St to fully reopen	On Street	Change 80	RL	OR	19/11/2012	INF CORR 8776	N/A	Y	10/01/2013			TBA	DEC	19/11/2012					
724	235	629	Off Street	Murrayfield SW pipe - provide design calculations	SW have rejected the pipe which currently sits under the embankment	Off Street	Change 80	SM	UC	21/11/2012	INF CORR 8794	17/12/2012	N				TBA	DEC	19/11/2012					
724	235	629.1	Off Street	Murrayfield SW pipe - provide design calculations	SW have rejected the pipe which currently sits under the embankment	Off Street	Change 80	SM	UC	20/11/2012	INF CORR 8794	N/A	Y	25/01/2013			TBA	DEC	11/02/2013					
724.1		630.1	Off Street	Murrayfield SW pipe - provide design calculations. TNC with own SW have rejected the pipe which currently sits under the embankment	SW have rejected the pipe which currently sits under the embankment	Off Street	Change 80	SM	UC	20/11/2012	INF CORR 8794	24/12/2012	N				TBA	DEC	20/11/2012					
725	196	631	On Street	Provision of DWG drawings - Drainage	As Built for handover to Scottish Water	On Street	Change 80	RL	UC	27/11/2012	INF CORR 8789	20/12/2012	Y	03/12/2012			None	DEC	26/11/2012					
725	196	631.1	On Street	Provision of DWG drawings - Drainage - Rev A to agree TCO	As Built for handover to Scottish Water	On Street	Change 80	RL	UC	27/11/2012	INF CORR 8789	20/12/2012	Y	03/12/2012			None	DEC	26/11/2012					
726	243	637	Off Street	Murrayfield bridge	Removal of bridge for commercial swing	Off Street	Change 80	SM	OR	07/12/2012	INF CORR 8806		Y	10/01/2013			None	DEC	03/12/2012					
727			Off Street	Residual ground level	Residual ground level which will be used for pedestrian access	Off Street	Change 80	SM	OR				N					DEC	04/01/2013					
728	245		On Street	Pedestrian Management Update	Pedestrian Management Update	On Street	Schedule 45	RL	OR	13/12/2012	INF CORR 8804	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		TBA	DEC	10/12/2012					
729	246		On Street	Princes Street/St Andrew's - Traffic Light Alterations (now transferred to Change 80 (at TNC 239 Rev A)	Traffic light conflict with Pedestrian Crossing	On Street	Schedule 45	RL	OR	13/12/2012	INF CORR 8805	18/01/2013	N				TBA	DEC	10/12/2012					
729.1	246		On Street	Princes Street/St Andrew's - Traffic Light Alterations	Light for progress to construction at Cross on complete	On Street	Schedule 45	AS	OR	20/10/2012	INF CORR 8809	N/A - Schedule 45	N				TBA	DEC	21/01/2013					
730	247		On Street	De-scope Tram route Crossing at Waverley	Works over low clearance with high risk of conflict with utilities.	On Street	Schedule 45	RL	OR	12/12/2012	INF CORR 8812	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		TBA	DEC	10/12/2012					
731		633	Off Street	Murrayfield SW pipe - CAD drawing to allow Mobilise to mark up the position on the sewer	SW have rejected the pipe which currently sits under the embankment	Off Street	Change 80	SM	UC				N				None	DEC	10/12/2012					
732	253		Off Street	Roseburn Street Road build up - de-scope	de-scope in infrastructure of works set to drive under the embankment	Off Street	Change 80	SM	DC				N				None	DEC	17/12/2012					
733	249		On Street	Palmerston Place/West Maitland St/Toupholon Pl - Traffic Paving	Define Edge of carriageway	On Street	Schedule 45	RL	OR	09/01/2013	INF CORR 8848	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		TBA	DEC	07/01/2013					
734	250		On Street	West Maitland Street/Waverley Place Traffic Signals	Chiller found in footway reflect position of light columns	On Street	Schedule 45	RL	OR	09/01/2013	INF CORR 8853	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		TBA	DEC	07/01/2013					
735	251		On Street	Section 1D, Wall at Sandanger Corner/Hope St - Mearns)	Achieve consistency of appearance as each location	On Street	Schedule 45	RL	OR	17/01/2013	INF CORR 8877	N/A	N				TBA	DEC	14/01/2013					
736	262		On Street	Road Marking for Bus Stop and loading Bay on Sharnfield Place	Update on bus shelters and loading bays conditions	On Street	Change 80	RL	OR	05/02/2013	INF CORR 8922						TBA	DEC	21/01/2013					
737		635	Off Street	Lower BT chambers at South Gate to fit flush with ground level	Transfer of work to Mobilise.	Off Street	Change 80	SM	DC				N/A					DEC	14/01/2013					
738	255		On Street	De-scope S&C Clearance Items	De-scope works	On Street	Schedule 45	RL	DC	17/01/2013	INF CORR 8974	N/A - Schedule 45	N/A - Schedule 45		N/A - Schedule 45		TBA	DEC	14/01/2013					

TNC No.	PMC No.	ICO No.	Location	Description	Reason For Change	On Street / Off Street	Clause 80 / Schedule 45 Instruction	T&T Change Owner	Change Category DC/UC/CR/SR	Date TNC Issued	Letter Ref	Date Estimate Due	Estimate Returned N/Y	Date Estimate Received	Estimate Change Value (Design)	Estimate Change Value (Construction)	Time Implications	Date Issued to CEC	Approved BY CEC/T&T	Date Approved or Rejected	Agreed Cost for Approved Contract Changes	Date TCO Issued	TCO Letter Ref	Comments
739	258		OnStreet	Dubin St Steps	Change to reduce extent of utility work required	On Street	Schedule 45	RL	CR	29/01/2013	INF CORR 8911	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	21/01/2013	CEC	21/01/2013		N/A - Schedule 45	N/A - Schedule 45	
740	256		OnStreet	Haymarket Island	Reduce the level of diversion/lowering of existing utilities	On Street	Schedule 45	RL	CR	23/01/2013	INF CORR 8892	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	N/A - Schedule 45	TBA	21/01/2013	CEC	21/01/2013				
741	260	647	OnStreet	Street Lighting poles	Designed support structure to light pole will clash with utilities	On Street	Schedule 45	RL	CR	05/02/2013	INF CORR 8921	01/03/2013						21/01/2013	CEC	21/01/2013		08/02/2013	INF CORR 8929	
742		644	OffStreet	South Gyle Junction	Design works associated with reinstating the junction	Off Street	Clause 80	SM	CR	12/02/2013	INF CORR 8936	07/03/2013						28/01/2013	CEC	28/01/2013		12/02/2013	INF CORR 8936	
743			OffStreet	Gogar Depot road re-construction	Infraco have de-scoped road spec due to lack of space from bridge deck	Off Street	Clause 80	SM	CR									21/01/2013	CEC	21/01/2013				
744	261	638	OffStreet	Carricknowe Golf Course - flooding	Pipes drain across the golf course to connect to existing drainage network	Off Street	Clause 80	SM	CR	08/02/2013	INF CORR 8932	06/03/2013						28/01/2013	CEC	28/01/2013		08/02/2013	INF CORR 8932	
745			OffStreet	Remove buff coloured HPS from Carrick Knowe Bridge and Edinburgh Park Viaduct	No technical requirement for surfacing at these locations. VE opportunity	Off Street	Clause 80	SM	CR									28/01/2013	CEC	28/01/2013				
746		643	OffStreet	Undertake imprinted prism works at Murrayfield Tramstop	Nil cost	Off Street	Clause 80	SM	CR			n/a	n/a		nil	nil	n/a	28/01/2013	CEC	28/01/2013				
747	263		OnStreet	Princes St, Tram Stop Remedials	Nil cost	Off Street	Clause 80	SM	CR	07/02/2013	INF CORR 8924							04/02/2013	CEC					
748	257	645	OffStreet	Depot Stabling area - infeed reinforcement	Increase the electrical supply capacity in depot stabling siding; additional power cables between Depot sub station and infeed disconnectors - to allow the power up of more trams at one time for maintenance works	Off Street	Clause 80	SM	SR	12/02/2013	INF CORR 8939	n/a - already confirmed by letter nil value						11/02/2013	CEC	11/02/2013	Nil			
749			OnStreet	De-scope of Footway Works outside Haymarket Station	Agreement on interface with Network Rail	On Street	Schedule 45	MM	UC	21/02/2013	INF CORR 8953							18/02/2013	CEC	18/02/2013				
750	208	649	OffStreet	Gogar Castle Access Road-Additional HPS and road safety signage	Works additional to RSA	Off Street	Clause 80	SM	SR	22/02/2013	INF CORR 8955	N/A	Y	16/01/2013	£654	£5,628.03	N/A	18/02/2013	CEC	18/02/2013	£6,282.30	22/02/2013	INF CORR 8955	
751			OffStreet	Gogarburn Hoarding	Removal of hoarding left in place by MUDFA	Off Street	Clause 80	SM	SR	22/02/2013	INF CORR 8954	19/03/2013						18/02/2013	CEC	18/02/2013				
752			OffStreet	Handrail at Gogarburn Ramp	Due to the steepness of the ramp, a ramp is required - this is not the DDA compliant access to the tramstop	Off Street	Clause 80	SM	SR	22/02/2013	INF CORR 8959	19/03/2013						18/02/2013	CEC	18/02/2013				
753	254	650	OffStreet	Network Rail retaining measures at Portal Standion	To within 3.4m of the nearest NWR track	Off Street	Clause 80	AS	SR							£927,500.00		25/02/2013	CEC	REJECTED				REJECTED BY CEC
754		651	OffStreet	Additional Earthing & Bonding to demarcation fencing along off street section	costs associated with additional earthing & bonding to the demarcation fencing in the off street section	Off Street	Clause 80	AS	UR									25/02/2013	CEC	25/02/2013		27/02/2013	INF CORR 8966	
755			OffStreet	Relocate signage at gogarburn Tramstop	Change to IFC drawings	Off Street	Clause 80	SM	SR									25/02/2013	CEC	25/02/2013				
756			OnStreet	Install walkways at Shandwick Place for next two international rugby matches	Pedestrian Management for Rugby Matches	On Street																		

Appendix 4 – Risk Register

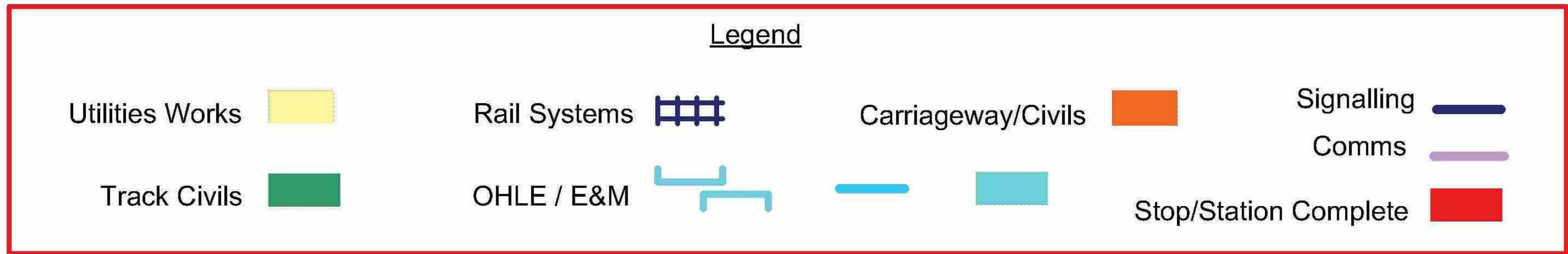
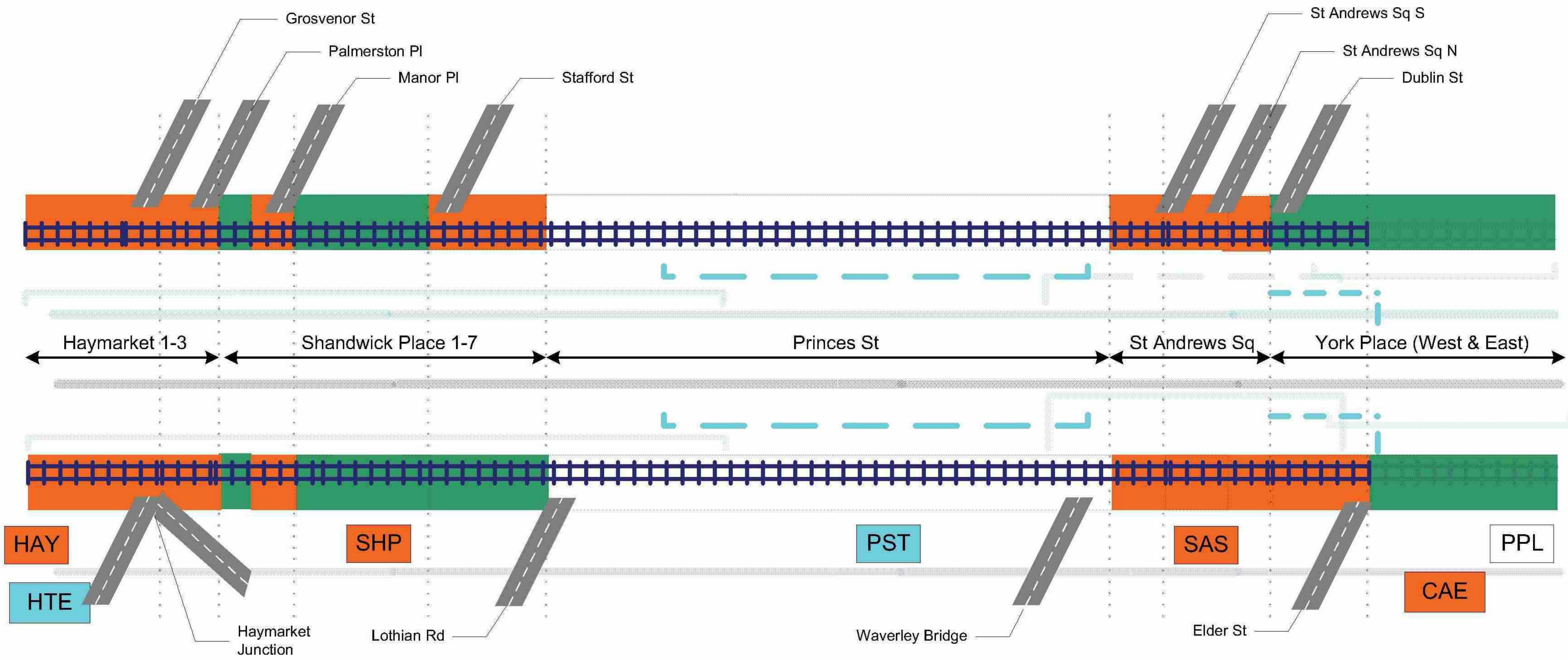
R1 ID	Description	Category	Cause	Risk Description	Effect / Impact	Risk Owner (Organisation)	Risk Owner (Individual)	Status	Level	RISK ANALYSIS - Pre Mitigated							RISK RESPONSE PLANNING							RISK ANALYSIS - Post Mitigated										
										Probability - C		Risk Impact - Current			Risk Score	Risk Level	Mitigation Actions / Controls / Measures							Probability - C		Risk Impact - Current			Risk Score	Risk Level				
										Prob. Score	Cost Score	Time Impact Score	Envir. Impact Score	Reputation Impact Score			1	2	3	4	5	6	7	8	9	10	11	12						
ED132			Interface position is not to provide any section C programme over zone the rev 5, in the context of saving early operations this is now considered a significant risk.	Phased handover / lack of integrated programme results in disruption	IE1 unable to manage & report progress in relation to Siemens work to CEC & manage issues	T&T	Rob Leach	Active	Non Construction	5	4	4					20	RED	2. Develop close working relationship with Siemens delivery team 2. Discuss with CEC how T&T can deal with initiative being carried out by Graham Houston	Rob Leach	Ongoing	5	4	4					20	RED				
ED128			GAF originally working to rev 2 programme in line with Marshall agreement which covered costs to final date. Now been asked to work to rev 5 which pushes out completion time	Additional costs may be claimed if GAF are asked to delay their programme in line with rev 5	Will seek additional fops	CEC	William Doherty	Active	Non Construction	4	4	1					16	RED															16	RED
ED008	Commercial		Unresolved commercial claims being made	Delayed line availability or contract and valuation estimates submitted for potential changes	Programme delay while disputes regarding estimates are resolved	IE1	Gary Barton	Active	Non Construction	3	4	3			4	12	RED	1946 guide* to key clauses of contract Independent Utilities in place	1. Review terms of reference for key project meetings (evaluation meeting, team working meeting, joint project forum & interface group) 1. HPL and Colin Smith	1. Ongoing	3	5	1				4	15	RED					
ED134			Complexity of resolution of SW issues	SW close out lead to prolongation of repair beyond June 13	Increased cost	CEC	Andy Scott	New	Non Construction	4	3	0					12	RED	1. CEC obtain formal written confirmation from SW that they stop charging in June 2. T&T to continue to monitor SW resource	Andy Scott	Ongoing	4	3	0				12	RED					
ED123			Additional Requirements	Scottish Water Scope increases including any unforeseen defects		CEC	Andy Scott	Active	Non Construction	5	4	2	0	0	3	20	RED		Review current approvals and progress to date on legacy contract works	Andy Scott	Ongoing	4	3	2	0	0	2	12	RED					
ED109	Construction	Consents & Interfaces	Poor management of Scottish Water by TIE and poor record keeping during the MUDFA works	Risk that the project relationship with Scottish Water deteriorate and access to utilities and resolving of delay issues becomes prolonged	SW less inclined to work closely with the project to solve problems, potential delays to overall programme at a time when time is critical in finalising utility diversions / knock on impact on infraas works with potential overall delay to project end date	DEC	Alan Doyle	Active	Construction - On Street	5	5	5	2	3	5	25	RED		1. Regular fortnightly review of all SW issues 2. Regular weekly meeting at senior level, CEC, T&T, SW	Andy Scott	1. Ongoing 2. Ongoing	3	4	2	2	3	3	12	RED					
ED032	Construction	Management	Utilities not diverted by CEC/T&T. Delayed provision of permissions from Utility Companies	Utilities cross, interfered during BBS Construction Works	Utility works not complete, Utility works obstructing access to work areas, Delay to construction works and Programme	CEC/T&T	Andy Scott	Active	Construction - On Street	4	3	5	2	3			20	RED	(2) BBS has provided CEC/T&T with work areas and additional Traffic Management in Period 4-11 and Period 4-12	Utility owners providing live and dead drawings As to its available NEV/hoas stand by teams on site (1) CEC/T&T to manage Utility to meet BBS programme; T&T has engaged UTILITIES contractor to divert UTILITIES		Ongoing	3	3	3				9	AMBER				
ED067	Project Management	Management	Concerns expressed by NRT that works not carried out in accordance with PCL Requirements	Suspension of works by NRT	Delay to construction works and Programme	BBS	Shirley Mischel	Active	Construction	2	4	4					8	AMBER	(1) NRT/BBS/T&T/CEC meetings ongoing to obtain NRT confidence in BBS ability to comply with PCL Requirements (2) Dedicated BBS resource to manage PCL requirements and ensure compliance	(1) NRT/BBS/T&T/CEC meetings ongoing to obtain NRT confidence in BBS ability to comply with PCL Requirements (2) Investigate mitigation method of leaving pits in - Roadwork, pitting sh, rt line, technical solution - close this action	Rob Leach	Ongoing	3	3	3				9	AMBER				
ED117			Due to the reallocation of scope at Edinburgh Gateway and its reduction in the plan	Risk that scope of work at Edinburgh Gateway increased and has been underestimated	Additional work, time and costs	CEC	Rob Leach	Active	Construction	4	3	5	1	1	2	20	RED		Liaison with client and designer to ensure plan is robust and includes for all aspects of work required	Shirley Mischel	Ongoing	3	2	3	1	1	2	9	AMBER					
ED066	Project Management	Management	Refusal to delay in agreement for wayleaves by affected parties	Approval/consent for remaining wayleaves associated with Scottish Power works	Delay to SP works and increased costs. Delays to BBS Programme	SP/CEC/T&T	Andy Scott	Active	Construction	2	2	3					6	AMBER		Identify all wayleaves requirements and manage process proactively to ensure consents are obtained, Flag issues to CEC, IPT S, Station HV cable wayleaves served Haymarket Substation - Wayleaves between NRT / CEC and SPEN still not served due to Network Rail re-development work	Andy Scott	asap	3	2	3			2	9	AMBER				
ED125			Progress at SE 18 has consistently been less than planned each period and potentially SE1 D, WS also an area of concern	Track Laying along Murrayfield Corridor delayed	Slower progress of heavy and track civils at driving structures will delay start of track laying along the Murrayfield corridor	BBS	Shirley Mischel	Active	Project - Off Street	4	2	3	0	1	2	12	RED		Close coordination of other 3rd parties works in conjunction with the contractors own works	Tom Cotton	Ongoing	3	2	3	0	1	2	9	AMBER					
ED034	Project Management	Consents & Interfaces	Lack of early application/discussions with NRT	Delayed NRT approvals (inc. possessions) as applicable	Delayed start of works. Disruption to off-street works	BBS	Shirley Mischel	Active	Construction	2	4	3	2	2	1	8	AMBER	(1) Comply with Contract requirements to obtain NRT approval and comply with approval periods. Meet Asset Protection Agreement obligations. (2) NRT/BBS/T&T/CEC meetings ongoing to obtain NRT approval	(1) Assisting contractor in production of a detailed plan for the submission and approval of NRT approval documentation, ensuring quality and timeliness of submissions. Obtain NRT agreement on proposals for interface management (2) NRT/BBS/T&T/CEC meetings ongoing to obtain NRT approval (3) Dedicated NRT resource allocated to Project in Period 4-11 (3rd party Req) (4) CEC/T&T to ensure NRT approval/responses timeliness are achieved (5) Co-located team now on site (6) Delay actively towards host (7) Obtain NRT agreement on proposals for interface management	Shirley Mischel	asap	3	1	3	2	2	3	9	AMBER					
ED130			Poor workmanship during installation results defects having to be rectified	Siemens have not formally signed off ITPs. Despite all testing being carried out there remains a risk that defects may be identified requiring rework	Delay to B&S while defects remain	T&T	Andy Scott	Active	Construction - On Street	4	2	2					8	AMBER		1. Carry out all testing in accordance with Specifications 2. All tests are witnessed & appropriate results verified	Andy Scott	Ongoing	4	2	2				8	AMBER				
ED151			SPN requirements not detailed in MUDFA IFG drawings	SPN requirement for additional cabling & insurance ducts to mitigate foamed concrete & set condition	Additional capital cost to indemnify rectify issues	T&T	Andy Scott	Active	Construction - On Street	4	2	1					8	AMBER		1. Issuing drawings (detailed) of road carriage make up and proximity to SP assets 2. Exploring possible mitigation actions with SPN	Andy Scott	Ongoing	4	2	1				8	AMBER				
ED019	Design	Design	Lack of Design ownership for interface drawn on steel structure (eg. You place beam size etc)	Risk that additional accessories are required that is not currently scheduled or costed	Cost and time	CEC	Rob Leach	Active	Client	5	5	5			5	25	RED	Continuous liaison with Interface regarding additional accessories to identify all required items Managed by the section PM Design Manager (Hulcher)	Get across scope and estimate on items and facilities	Gary Barton	Ongoing	2	4	4			3	8	AMBER					
ED071	Construction	Utilities	Due to legacy issues and unknown services	Discovery of additional Track construction conflicts (Live)	Further diversion requirements area areas of works interrupted Delays to work Delays for consents	DEC	Andy Scott	Active	Construction - On Street	5	5	5	2	3	5	25	RED		Utility owners providing live and dead drawings BBS bridging track form Localised blocking of track / silt trenching 4 part scheme to revise TM and reduce school, to duration being reviewed and now programme issued for QSFA			2	4	4	2	3	3	8	AMBER					
ED004	Project Management	Consents & Interfaces	Ongoing claims and issues	Risk of further breakdown in client/contractor relationship	Difficult working relationships with a lack of trust and sharing of knowledge and expertise. Lack of joined up approach to urban setting. Delays to programme	IE1	Rob Leach	Active	Non Construction	4	4	5	0	0	5	20	RED	Control meetings in place Full time independent on site Using new relationship to 'sense state client' and build new relationship Joint working group in place Weekly update/updates informal meeting	Close management of relationship, regular control meetings and council attendance			2	3	3			4	8	AMBER					
ED009	Construction	Quality	Poor quality workmanship or inadequate materials	Poor installation or latent defects occur during or after infraas maintenance period	Will work does not meet employers requirements additional costs & delay	DEC	William Doherty	Active	Construction	3	4	4	2	3	12	RED		T&T PM's to provide regular feedback on progress, workmanship and quality on site Ongoing Accrediting (Graham Walker)			2	3	2	2	3	4	8	AMBER						
ED046	Utilities		Failure to locate apparatus prior to excavation Failure to excavate carefully around known apparatus Failure to protect apparatus during works or backfilling	Damage to Utility Apparatus (By McNicholas)	Safety hazard to workforce or public (gas release) Inter-ruption to supply - impact on third parties and/or reputation damage Penalties and/or compensation claims	T&T	Andy Scott	Active	Construction - On Street	2	2	2			3	6	AMBER		Robust Permit to Dig process, not Communications in place to call out Utility for urgent repairs	1) Willie Doherty & Graham Walker	Ongoing	2	3	3	3	5	4	8	AMBER					
ED101	Communication	Management	Due to the lack of a communications strategy and changing TM requirements with limited time to communicate	Risk that the public, local newspapers, media and other stakeholders receive poor quality/incorrect information about the project and TM plans	Loss of confidence, loss of media and political support (Local and National)	CEC	Yvonne McCallum	Active	Client	4	3	2	0	0	5	20	RED	Regular, reliable and timely communications of information to the public, council and media Additional resource provided to support communication plans around TM & other project info	Strategy & resource plan being developed by joint communications group	CEC		2	3	2			4	8	AMBER					
ED102	Project Management		Legacy issues	Public enquiry called prior to construction	Diverts resources from project causing potential delay	CEC	Yvonne McCallum	Active	Client	1	3	4			4	4	GREEN	Monitor additional stands	Diverse online resources and handling plan to manage third party enquiries in line with CEC corporate communication	CEC		2	3	3			4	8	AMBER					

CEC02024340_0109

Turner & Townsend		Edinburgh Tram Project Risk Register										RISK ANALYSIS - Pre Mitigated										RISK ANALYSIS - Post Mitigated									
ID	Title	Category	Description	Risk Owner	Risk Category	Status	Probability-C			Risk Impact - Conseq			Risk Score	Risk Level	Mitigation Strategy	Responsible	Start Date	End Date	Probability-C			Risk Impact - Conseq			Risk Score	Risk Level					
							Prob	Imp	Conseq	Prob	Imp	Conseq							Prob	Imp	Conseq	Prob	Imp	Conseq							
ED001	Project Management	Contract	Provide baseline information from Operator CAP/BES to enable commissioning, testing and acceptance.	ALL	Active	Construction	4	3	2	1	12	High	Identify and mitigate risks to commissioning, testing and acceptance.	Rob Looch	1	12	High	4	3	2	1	12	High								
ED002	Contract Management	Contract	Finalise management of consultant contracts (F&C)	Q&C	Active	Client	3	2	2	5	15	Med	Finalise management of consultant contracts (F&C)	Bob McCulloch	3	15	Med	3	2	2	5	15	Med								
ED003	Contract Management	Contract	Finalise management of consultant contracts (F&C)	Q&C	Active	Client	3	2	1	5	15	Med	Finalise management of consultant contracts (F&C)	Bob McCulloch	3	15	Med	3	2	1	5	15	Med								
ED004	Contract Management	Contract	Finalise management of consultant contracts (F&C)	Q&C	Active	Client	4	1	1	5	20	Med	Finalise management of consultant contracts (F&C)	Bob McCulloch	4	20	Med	4	1	1	5	20	Med								
ED005	Contract Management	Contract	Finalise management of consultant contracts (F&C)	Q&C	Active	Client	3	1	4	5	15	Med	Finalise management of consultant contracts (F&C)	Bob McCulloch	3	15	Med	3	1	4	5	15	Med								
ED006	Contract Management	Contract	Finalise management of consultant contracts (F&C)	T&T	Active	Construction - On Street	2	1	4	8	AMBER	Potential impact on delivery of works	Andy Scott	2	8	AMBER	1. BES to confirm lead 2. Monitor progress through weekly meeting with infra & agree mitigation measures	1. Gordon Smith 2. Andy Scott	2	1	4	8	AMBER								
ED007	Contract Management	Contract	Finalise management of consultant contracts (F&C)	IS&I	Active	Non Construction	4	2	1	2	8	AMBER	Finalise management of consultant contracts (F&C)	How Louch	4	8	AMBER	Weekly PMCC meetings		3	2	1	2	6	AMBER						
ED008	Contract Management	Contract	Finalise management of consultant contracts (F&C)	BES/CEP/T&T	Active	Construction	3	3	2	0	9	AMBER	Finalise management of consultant contracts (F&C)	Rob Looch	3	9	AMBER	1. Agree with all parties to be in place based on security hazard assessment 2. Unblock materials and works to be protected 3. Effective callout and emergency response plans to be in place and rehearsed		3	1	0	2	6	AMBER						
ED009	Contract Management	Contract	Finalise management of consultant contracts (F&C)	BES	Active	Construction	1	2	2	0	2	GREEN	Finalise management of consultant contracts (F&C)	BES	1	2	GREEN	(1) Effective workforce communication, liaison, using existing safety vehicle (2) Unblock materials and works to be protected (3) Agree with all parties to be in place based on security hazard assessment		1	2	0	0	2	AMBER						
ED010	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Non Construction	4	3	1	1	12	Med	Finalise management of consultant contracts (F&C)	Shirley Murray	4	12	Med	Commercial meeting held with BES and CEC CEC to advise contract in progress		2	3	1	1	6	AMBER						
ED011	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Construction	3	2	2	3	9	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	3	9	AMBER	Team integration manager appointed CAF to advise contract in progress CAF to advise contract in progress CAF to advise contract in progress		2	3	0	1	3	6	AMBER					
ED012	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Construction	4	4	4	4	16	Med	Finalise management of consultant contracts (F&C)	Shirley Murray	4	16	Med	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	3	1	1	3	6	AMBER					
ED013	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Construction	3	2	2	3	9	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	3	9	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	3	0	1	3	6	AMBER					
ED014	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Construction	4	4	4	4	16	Med	Finalise management of consultant contracts (F&C)	Shirley Murray	4	16	Med	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	3	0	0	6	AMBER						
ED015	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Construction	3	5	1	1	15	Med	Finalise management of consultant contracts (F&C)	Shirley Murray	3	15	Med	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	3	1	1	6	AMBER						
ED016	Contract Management	Contract	Finalise management of consultant contracts (F&C)	BES	Active	Construction	2	3	0	0	6	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	2	6	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	3	0	0	6	AMBER						
ED017	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEP/T&T	Active	Construction	3	4	3	4	12	Med	Finalise management of consultant contracts (F&C)	Shirley Murray	3	12	Med	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	3	3	1	6	AMBER						
ED018	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Construction	3	3	3	9	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	3	9	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	3	3	3	6	AMBER							
ED019	Contract Management	Contract	Finalise management of consultant contracts (F&C)	Q&C	Active	Client	3	2	1	5	15	Med	Finalise management of consultant contracts (F&C)	Shirley Murray	3	15	Med	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	2	1	3	6	AMBER						
ED020	Contract Management	Contract	Finalise management of consultant contracts (F&C)	CEC	Active	Construction	2	2	3	0	1	6	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	2	6	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	2	3	0	1	6	AMBER				
ED021	Contract Management	Contract	Finalise management of consultant contracts (F&C)	T&T	Active	Construction	2	2	3	6	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	2	6	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	2	3	6	AMBER								
ED022	Contract Management	Contract	Finalise management of consultant contracts (F&C)	T&T	Active	Construction	2	1	3	3	6	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	2	6	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	1	4	3	6	AMBER						
ED023	Contract Management	Contract	Finalise management of consultant contracts (F&C)	BES	Active	Construction	1	3	3	5	5	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	1	5	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		1	3	3	5	5	AMBER						
ED024	Contract Management	Contract	Finalise management of consultant contracts (F&C)	IS&I	Active	Non Construction	4	2	3	5	20	Med	Finalise management of consultant contracts (F&C)	Shirley Murray	4	20	Med	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		1	3	3	5	5	AMBER						
ED025	Contract Management	Contract	Finalise management of consultant contracts (F&C)	BES	Active	Construction	2	4	0	0	8	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	2	8	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	2	0	0	4	GREEN						
ED026	Contract Management	Contract	Finalise management of consultant contracts (F&C)	BES	Active	Construction	2	4	0	0	8	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	2	8	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	2	0	0	4	GREEN						
ED027	Contract Management	Contract	Finalise management of consultant contracts (F&C)	BES	Active	Non Construction	3	3	3	3	8	AMBER	Finalise management of consultant contracts (F&C)	Shirley Murray	3	8	AMBER	Review of other train projects commissioning status completed Review of other train projects commissioning status completed Review of other train projects commissioning status completed		2	2	2	2	4	GREEN						

Turner & Townsend		Edinburgh Tram Project Risk Register										RISK ANALYSIS - Pre Mitigation										RISK ANALYSIS - Post Mitigation									
ID	Description	Category	Cause	Effect	Risk Owner	Risk Owner Organisation	Status	Probability - C	Risk Impact - Core			Risk Score	Risk Status	Mitigation	Residual Risk	Probability - C	Risk Impact - Core			Risk Score	Risk Status										
									Core	High	Low						Core	High	Low			Core	High	Low							
ED002	Construction	Construction	Construction	Construction	CEC	Shirley Market	Active	Construction	3	2	2	6	AMBER	CEC tracking external projects.	Active	Construction	1	2	2	2	2	2	GREEN								
ED003	Safety	Safety	Death, injury or damage to third parties (people or property) during construction.	Death, injury or damage to workers or support personnel or fire, noise issues, reputation damage.	BIS/CEC/T&T	Pop. Loch	Active	Construction	2	3	4	8	AMBER	T&T implement appropriate H&S Management System to monitor performance (Refer to BS 5830:2016)	Original	Construction	1	2	1	3	2	2	GREEN								
ED017	Construction	Construction	YP available to finance ahead of contract to allow C&I. BIS unable to fully release YP during the initial phase of works.	Shower program by (revised for the period 04/07/2013) (the previous forecast) (number of jobs for YP)	BIS	Arny Boat	Close	Project - On Street	3	2	0	6	AMBER	Conflict Schedule Joint working group	Original	Project - On Street	1	2	0	1	2	2	GREEN								
ED094	Utilities	Utilities	Unknown condition of utilities.	Failure of Utility assets which impacts on services (i.e. power supply, water pipes etc)	CEC	Pop. Loch	Active	Construction	2	2	3	4	AMBER	Close liaison with utility companies	Original	Construction	1	1	2	2	2	2	GREEN								
ED095	Construction	Construction	Construction methodology, including use of plant and equipment on-site, results in noise level exceeded.	Failure to plan works methodology or plant utilization to minimise noise impact, or failure to implement mitigation measures, results in noise level exceeded, work stoppage, delay and/or additional costs, potential reputation damage.	BIS	Pop. Loch	Active	Construction	3	2	2	9	AMBER	W&WP stage works, use of multiple equipment, ensuring equipment is operated correctly and shut down when not in use	Original	Construction	1	1	2	1	2	2	GREEN								
ED096	Construction	Construction	Spillage from excavation, including	Hydrocarbon contamination of the ground, groundwater and watercourses, resulting in reputational damage, penalties, legal action, delay and/or additional costs.	BIS/CEC/T&T	Shirley Market	Active	Construction	2	1	3	6	AMBER	(1) Implement noise abatement by selection of appropriate methodology, equipment at W&WP stage. (2) Implement noise abatement measures, ensuring equipment is operated correctly and shut down when not in use. (3) Implement appropriate mitigation (noise barriers/absorbers, machine power instead of engine power) to ensure noise levels are controlled in low risk locations, using: (4) Fencing of noise equipment to be controlled in low risk locations, using: (5) Enclose noisy equipment with acoustic enclosures. (6) Erect acoustic barriers between noisy equipment. (7) Pre planning for weather mitigation (leaky covers, lighting, water spray) at excavation, protection of existing watercourses, drainage, etc. (8) Check equipment who is the licensee for conditions - ensure valid survey data is complete and available to site team (9) Training for site team (load limits, etc)	Original	Construction	1	1	2	3	0	2	2	2	GREEN						
ED097	Construction	Construction	Failure to prevent death or injury of protected wildlife, amphibians, reptiles, invertebrates, birds, mammals, plants and/or damage to wildlife habitats.	Death or injury of protected wildlife or damage to plants and/or damage to wildlife habitats.	BIS	Shirley Market	Active	Construction	2	2	4	6	AMBER	(1) Pre planning for weather mitigation (leaky covers, lighting, water spray) at excavation, protection of existing watercourses, drainage, etc. (2) Establish robust procedure for release of information for construction. (3) Implement procedure in place and control monitoring of compliance through the day.	Original	Construction	1	1	2	0	2	2	GREEN								
ED098	Project Management	Project Management	Exceptional adverse weather.	Excavation to work in progress - rework.	BIS/CEC/T&T	Pop. Loch	Active	Construction	3	2	2	6	AMBER	(1) Establish robust procedure for release of information for construction. (2) Establish robust procedure for release of information for construction. (3) Implement procedure in place and control monitoring of compliance through the day.	Original	Construction	1	1	2	0	0	2	2	GREEN							
ED099	Quality	Quality	Lack of QA control of construction information.	Errors, omissions, delay and/or cost.	BIS	William Dalrymple	Active	Construction	1	3	0	3	GREEN		Original	Construction	1	1	0	1	1	1	GREEN								

Appendix 5 – On Street Schematic



CEC02024340_0114

Appendix 6 – Organisation Chart

28.01.13

Key:

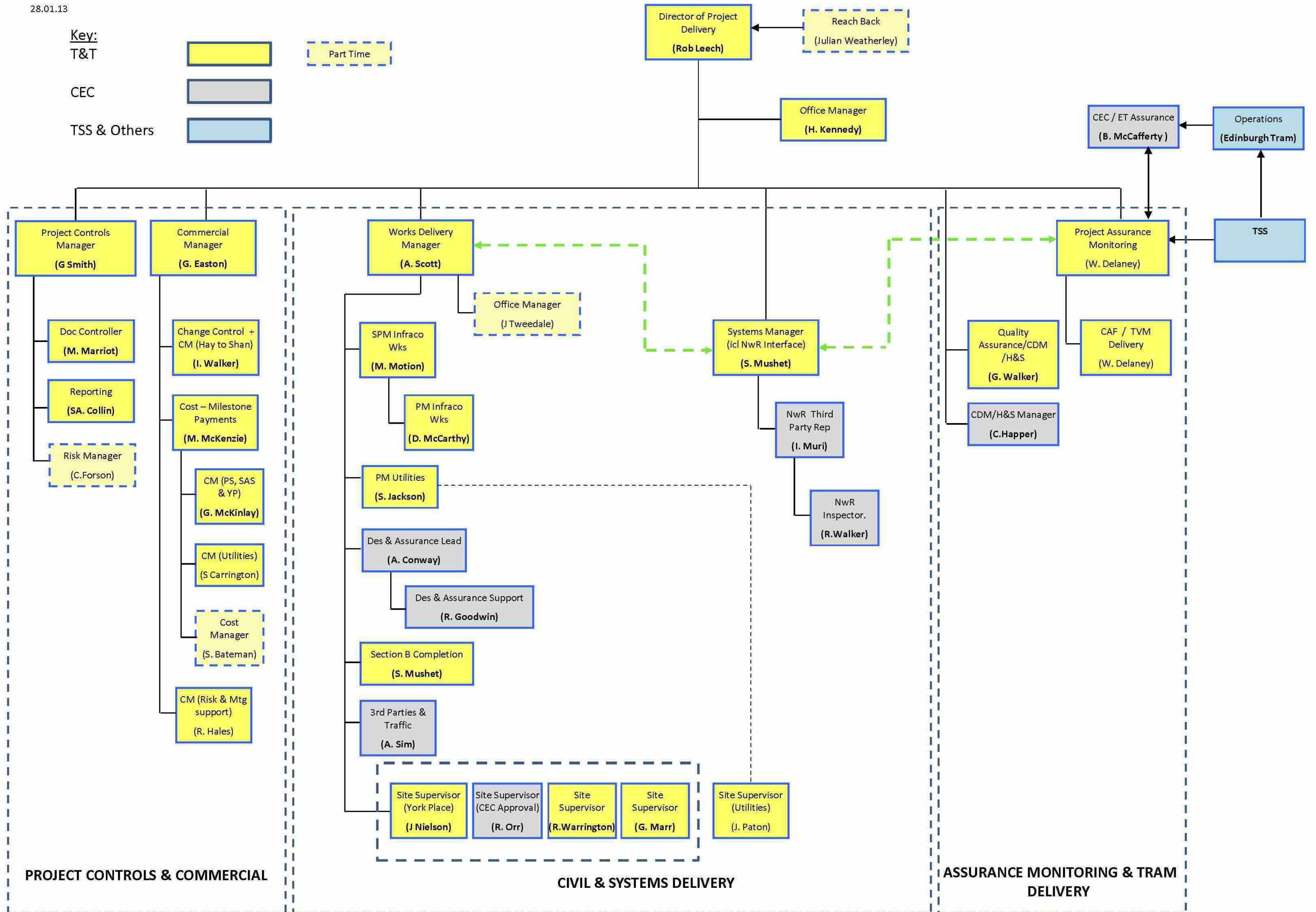
T&T



CEC

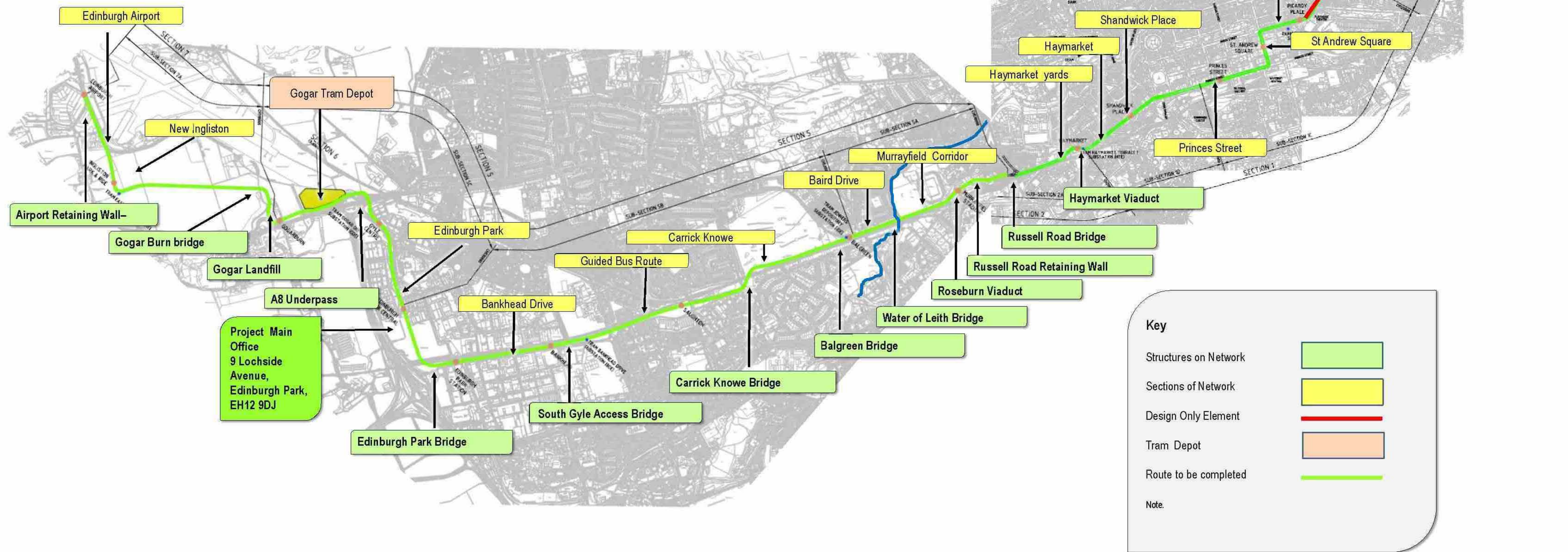


TSS & Others



Appendix 7 – Route Map

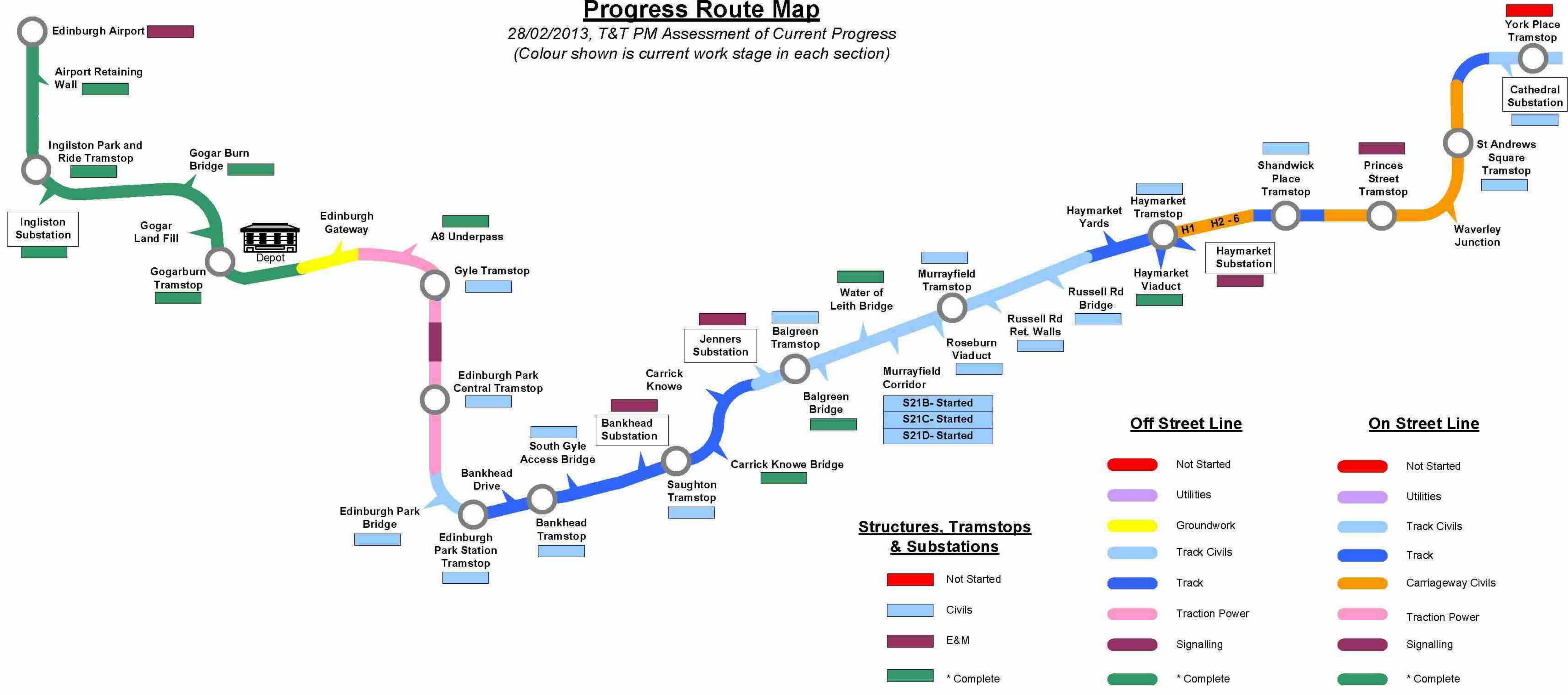
Edinburgh Tram Network – Route Map & Key Locations



CEC02024340_0118

Progress Route Map

28/02/2013, T&T PM Assessment of Current Progress
(Colour shown is current work stage in each section)



Structures, Tramstops & Substations

- Not Started
- Civils
- E&M
- * Complete

Off Street Line

- Not Started
- Utilities
- Groundwork
- Track Civils
- Track
- Traction Power
- Signalling
- * Complete

On Street Line

- Not Started
- Utilities
- Track Civils
- Track
- Carriageway Civils
- Traction Power
- Signalling
- * Complete

* Does not include any snagging activities

Appendix 8 – Acronyms

ACRONYMS

ACCB	Accommodation and Boundary Works
AiP	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
COMM	Commissioning
CVI	Confirmation of Verbal Instruction
DAS	Design Assurance Statement
DASB	Design – As Built
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	Geotechnical
HAZID	Hazard Identification Study
HAZOP	Hazard and Operability Study
HIGH	Highways
HIRA	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
O&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	Request for Opinion
RIDDOR	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 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
STRL	Street Lighting
STRU	Structures / Retaining Structures
SUBM	Submissions
SUBS	Sub-Stations
SURV	Surveys

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