

EGIP PHASE 2 – MILLERHILL CONNECTION

EDINBURGH IECC A

WORKSTATION 2

TD DESIGN

AS DETAILED ON INDEX SHEET E60/A/ITD/002/IND

Production IECC Design DERBY

Version **BB1**

Contact

Tel. No.

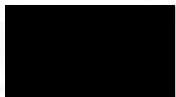
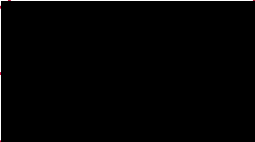
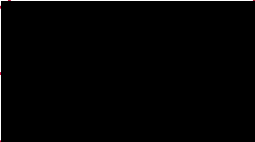
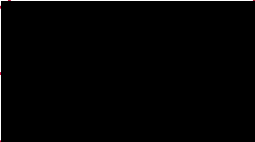


Approval Copy		
Designation	Date	Signature
Contractor's Responsible Engineer		
Network Rail Operations		
Network Rail Infrastructure		




resonate

ACCEPTANCE COPY

VERSION		SCHEME PLAN		DRAWING NUMBERS	APPROVED FOR CONSTRUCTION	PREPARED FOR ISSUE	DISTRIBUTION											
ALTERATION LETTER	CHANGE NUMBER	No.	VERSION															
		DESCRIPTION OF CHANGE																
BB	1	EGIP PHASE 2 -MILLERHILL CONNECTION TD DESIGN PRODUCED IN ACCORDANCE WITH SCHEME PLAN: 13-SC-0007 VERSION F		COMBINED RED AND GREEN SHEETS: E60/A/ITD/002/IND - INDEX E60/A/ITD/002/02 - STEPPING TABLES		 3/2/2017	NETWORK RAIL ACCEPTANCE COPY											
				GREEN SHEETS: E60/A/SL/002/01 - BLOCK SCHEMATIC														
				RED SHEETS: E60/A/SL/002/01 - BLOCK SCHEMATIC														
<div style="text-align: center;"> <table border="1"> <thead> <tr> <th colspan="3">APPROVAL COPY</th> </tr> <tr> <th>APPROVED BY</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>RESONATE CRE</td> <td rowspan="2"></td> <td>02/02/2017</td> </tr> <tr> <td>RESONATE CEM</td> <td>02/02/2017</td> </tr> </tbody> </table> </div>								APPROVAL COPY			APPROVED BY	SIGNATURE	DATE	RESONATE CRE		02/02/2017	RESONATE CEM	02/02/2017
APPROVAL COPY																		
APPROVED BY	SIGNATURE	DATE																
RESONATE CRE		02/02/2017																
RESONATE CEM		02/02/2017																

APPROVAL COPY		
APPROVED BY	SIGNATURE	DATE
RESONATE CRE		05/02/2018
RESONATE CEM		02/02/2018

													
TESTER NAME		SIGNATURE		DATE	ACTIVITY	COMPLETE	DATE	Source Record Updated		<div> <div>Produced</div> <div>Checked</div> <div>Issued</div> </div>	<div> <div>25/01/2017</div> <div>26/1/2017</div> </div>	National Records Group EDINBURGH SC IECC A DIS2 (WORKSTATION 2) APPROVAL AND ISSUE RECORD	
1				Prep. Inspection				Version	Prod.			Check	
2				Prep. W.C. and Cont									
3				Prep. S. & F./C.F.T.									
4				Cable core Loc. End									
5				Cable core Equ. End									
Complete tester details in your own check marking colour. Sign off for completed activities.					Changeover Comp								
CAO GENERATED : ALTERATIONS TO BE MADE ON DESIGN FILE ONLY													

$$Y_{\text{or}} = A$$

*** STATUS G = GREEN WORK R = RED WORK NEW = ALL NEW WORK R/G = COMBINED WORK X = ABOLISHED SHEET

CA0 - A3 NB-A3 v1.0

EDINBURGH S.C IECC A WORKSTATION 2 TD CONTROL TABLES

ACCEPTANCE COPY

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
A241	B251	1723T occ	RB241-AM	
A241	CLRT	-\$B241	1721T clr	
A241	F241	\$A241		COPY STEP
A243	B251	1723T occ	RB243-AM	
A243	CLRT	-\$B243	1720T clr	
A243	F243	\$A243		COPY STEP
ANLU	RNLU	\$ANLU		SPECIAL COPY STEP
APDG	RDDG	\$APDG		SPECIAL COPY STEP
APUG	CLRT	-RM13-1	RM17-1 . -\$M016 . -\$M017 . \$APUG	
APUG	CLRT	-RM15-1	RM19-1 . -\$M019 . \$APUG	
APUG	CLRT	-RM17-1	\$APUG	
APUG	CLRT	-RM19-1	\$APUG	
APUG	CLRT	-\$M017	RM17-1 . \$APUG	
APUG	CLRT	-\$M019	\$APUG	
ASLU	RSLU	\$ASLU		SPECIAL COPY STEP
B241	A241	\$B241	-\$A241 . MB241G 'off'	
B241	A241	MB241G 'off'	-\$A241 . \$B241	
B241	CLRT	-\$C241	1721T clr	
B241	F241	-\$A241	\$B241	COPY STEP
B241	F241	\$B241	-\$A241 . MB241 @R	COPY STEP
B243	A243	\$B243	-\$A243 . MB243G 'off'	
B243	A243	MB243G 'off'	-\$A243 . \$B243	
B243	CLRT	-\$C243	1720T clr	
B243	F243	-\$A243	\$B243	COPY STEP
B243	F243	\$B243	-\$A243 . MB243 @R	COPY STEP
B244	R241	1723T occ	RB244-BM + RB244-BC	
B244	R243	1723T occ	RB244-AM + RB244-AC	
B244	B251	MB251G 'off'	\$B244 . -\$B251	
B251	B259	1731T occ	RB251-AM	
B251	B244	MB244G 'off'	\$B251 . -\$B244	
B252	B244	1734T occ	RB252-AM	
B259	B267	1743T occ	RB259-AM	
B260	B252	1746T occ	RB260-AM	
B260	B267	MB267G 'off'	\$B260 . -\$B267	

EDINBURGH S.C IECC A

WORKSTATION 2 TD CONTROL TABLES

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
B267	B275	1755T occ	RB267-AM	
B267	B260	MB260G 'off'	\$B267 . -\$B260	
B268	B260	1758T occ	RB268-AM	
B275	B277	1767T occ	RB275-AM	
B276	B268	1770T occ	RB276-AM	
B276	B277	MB277G 'off'	\$B276 . -\$B277	
B276	CLRT	1771T clr	\$B276	
B277	B287	1772T occ	RB277-AM	
B277	B276	MB276G 'off'	\$B277 . -\$B276	
B277	CLRT	1771T clr	\$B277	
B287	M021	1777T occ	RB287-AM	
B288	B276	1780T occ	RB288-AM	
B288	M061	EM61G 'off'	\$B288 . -\$M061 . U169AB_I	
C017	CGDP	311T occ	\$C017 . 307T occ	
C017	P852	EP852G 'off'	\$C017 . -\$P852 . RP852-1S	
C017	P852	EP852G 'off'	\$C017 . -\$P852 . RP852-2S	
C241	B241	MB241G 'off'	-\$A241 . -\$B241 . \$C241	
C241	CLRT	-\$R241	1721T clr	
C241	F241	\$C241	-\$A241 . -\$B241 . MB241@R	COPY STEP
C241	F241	-\$B241	-\$A241 . \$C241 . 1721T occ	COPY STEP
C241	F241	-\$A241	-\$B241 . \$C241	COPY STEP
C243	B243	MB243G 'off'	-\$A243 . -\$B243 . \$C243	
C243	CLRT	-\$R243	1720T clr	
C243	F243	\$C243	-\$A243 . -\$B243 . MB243@R	COPY STEP
C243	F243	-\$B243	-\$A243 . \$C243 . 1720T occ	COPY STEP
C243	F243	-\$A243	-\$B243 . \$C243	COPY STEP
E422	P622	336T occ	\$E422	
E427	LSSL	\$E427		COPY STEP
E431	LSNL	\$E431		COPY STEP
EMUA	M067	M154T occ	RM63-1	
EMUD	M065	M155T occ	U155AB_f	
F241	CLRT	-\$A241	-\$B241 . -\$C241	
F241	CLRT	-\$B241	-\$A241 . -\$C241 . 1721T occ	
F241	CLRT	-\$C241	-\$A241 . -\$B241 . 1721T occ	

EDINBURGH S.C IECC A WORKSTATION 2 TD CONTROL TABLES

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
F243	CLRT	-\$A243	-\$B243 . -\$C243	
F243	CLRT	-\$B243	-\$A243 . -\$C243 . 1720T occ	
F243	CLRT	-\$C243	-\$A243 . -\$B243 . 1720T occ	
M004	M007	EM7G 'off'	\$M004 . -\$M007	
M004	M041	M103T occ	RM4-1	
M006	M009	EM9G 'off'	\$M006 . -\$M009	
M006	M009	RM41-1	\$M006 . -\$M009	
M006	M041	M103T occ	RM6-1	
M007	M004	EM4G 'off'	\$M007 . -\$M004	
M007	M012	M108T occ	RM7-3 . \$M013	
M007	M013	M108T occ	[RM7-1 + RM7-3] . -\$M012 . -\$M013	
M007	CLRT	M108T occ	RM7-2	
M009	M012	M108T occ	RM9-3 . \$M013	
M009	M013	M108T occ	[RM9-1 + RM9-3] . -\$M012 . -\$M013	
M009	CLRT	M108T occ	RM9-2	
M009	M006	EM6G 'off'	\$M009 . -\$M006	
M009	M006	RM44-3	\$M009 . -\$M006	
M012	M004	M112T occ	RM12-1	
M012	M006	M112T occ	RM12-2	
M012	M013	-\$M013	\$M012	
M012	M044	M112T occ	RM12-3	
M013	APUG	RM13-1	\$M013 . -\$M016 . RM17-1 . -\$M017	COPY STEP
M013	APUG	RM17-1	\$M013 . -\$M016 . RM13-1 . -\$M017	COPY STEP
M013	APUG	\$M013	RM13-1 . -\$M016 . -\$M017 . RM17-1	COPY STEP
M013	M017	M117T occ	RM13-1	
M014	CLRT	M115T clr	\$M014	
M015	APUG	RM15-1	\$M015 . RM19-1 . -\$M019	COPY STEP
M015	APUG	RM19-1	\$M015 . RM15-1 . -\$M019	COPY STEP
M015	APUG	\$M015	RM15-1 . -\$M019 . RM19-1	COPY STEP
M015	M019	M122T occ	RM15-1	
M016	M012	M117T occ	RM16-1	
M016	M014	M117T occ	RM16-2	
M016	M017	EM17G 'off'	\$M016 . -\$M017	
M017	APUG	\$M017	RM17-1	COPY STEP

**EDINBURGH S.C IECC A
WORKSTATION 2 TD CONTROL TABLES**

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
M017	APUG	RM17-1	\$M017	COPY STEP
M017	M016	EM16G 'off'	\$M017 . -\$M016	
M017	M586	M123T occ	RM17-1	
M019	APUG	\$M019	RM19-1	COPY STEP
M019	APUG	RM19-1	\$M019	COPY STEP
M019	M586	M124T occ	RM19-1	
M020	M016	M123T occ	RM20-1	
M021	M025	M167T occ	RM21-1	
M022	M024	M140T occ	RM22-3	
M022	M027	EM27G 'off'	\$M022 . -\$M027	
M022	M067	M140T occ	[RM22-1M + RM22-1C] . \$MD02	
M022	MD02	M140T occ	[RM22-1M + RM22-1C] . -\$MD02 . -\$M067	
M022	X065	M140T occ	RM22-2	
M023	M025	137T occ	RM23-1	
M023	M060	EM60G 'off'	\$M023 . -\$M060	
M024	CLRT	M134T occ	RM24-1 + RM24-2 + RM24-3 + RM24-4	
M024	M027	EM27G 'off'	\$M024 . -\$M027	
M025	CLRT	139T clr	\$M025 . -\$M026	
M025	M026	EM26G 'off'	\$M025 . -\$M026	
M025	MNA1	RM25-1	\$M025	COPY STEP
M025	MNA1	\$M025	RM25-1	COPY STEP
M025	P603	M143T occ	RM25-2	
M025	P629	M143T occ	RM25-1	
M026	CLRT	139T clr	\$M026 . -\$M025	
M026	M025	EM25G 'off'	\$M026 . -\$M025	
M026	B288	137T occ	RM26-1	
M027	P603	M144T occ	RM27-1	
M028	M024 M022	M146T occ	RM28-1	
M028	M026	M146T occ	RM28-2	
M030	M024 M022	M147T occ	RM30-1	
M030	M026	M147T occ	RM30-2	
M041	M006	M103T occ	RM41-1 . \$M009	
M041	M007	M103T occ	RM41-2	
M041	M009	M103T occ	RM41-1 . -\$M009	

EDINBURGH S.C IECC A
WORKSTATION 2 TD CONTROL TABLES

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
M043	CLRT	M108T occ	RM43-1	
M043	M013	M108T occ	RM43-2	
M044	CLRT	M108T occ	RM44-1	
M044	M004	M108T occ	RM44-2 . \$M044	
M044	M006	M108T occ	RM44-3 . \$M044 . -\$M006	
M044	M009	M108T occ	RM44-3 . \$M044 . \$M006	
M046	M044	M112T occ	RM46-1	
M047	M049	M131T occ	RM47-1 . \$M047	
M049	M023	M132T occ	RM49-1	
M049	M024	M132T occ	RM49-2	
M049	CLRT	M132T occ	RM49-3 . \$M049	
M053	M023	M132T occ	RM53-1	
M053	M024	M132T occ	RM53-2	
M053	CLRT	M132T occ	RM53-3 . \$M053	
M055	M023	M132T occ	RM55-1	
M055	M024	M132T occ	RM55-2	
M055	CLRT	M132T occ	RM55-3 . \$M055	
M056	CLRT	M132T occ	[RM56-1 + RM56-2 + RM56-3] . \$M056	
M057	M023	M134T occ	RM57-1	
M057	M024	M134T occ	RM57-2	
M060	CLRT	M134T occ	[RM60-1 + RM60-2 + RM60-3 + RM60-4] . \$M060	
M061	M025	137T occ	RM61-1	
M065	M027	M157T occ	RM65-1	
M067	M027	M156T occ	RM67-1	
M067	MD02	\$M067	-\$MD02	
M067	MD02	-\$MD02	\$M067	
M586	SDUG	\$M586		COPY STEP
MD02	M067	EM67G 'off'	\$MD02 . -\$M067	
MD02	CLRT	M150T occ	RMD2-1	
MD02	SEMA	\$MD02		COPY STEP
MNA1	CLRT	-RM25-1	\$MNA1	
MNA1	CLRT	-\$M025	RM25-1 . \$MNA1	
P601	P609	293T occ	291T occ	
P602	P598	290T occ	292T occ	

EDINBURGH S.C IECC A

WORKSTATION 2 TD CONTROL TABLES

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
P602	P853	EP853G 'off'	\$P602 . -\$P853 . RP853-1S	
P603	P607	302T occ	147/299T occ	
P604	M030	302T occ	351T occ	
P604	P607	EP607G 'off'	\$P604 . -\$P607 . 301T occ	
P605	C017	296T occ	RP605-1M	
P605	P611	296T occ	RP605-2M	
P605	P613	296T occ	RP605-3M	
P607	C017	298T occ	RP607-1M	
P607	P611	298T occ	RP607-2M	
P607	P613	298T occ	RP607-3M	
P609	P611	297T occ	RP609-1M	
P609	P613	297T occ	RP609-2M	
P610	P602	320T occ	RP610-1M	
P610	P604	320T occ	RP610-2M	
P610	P633	320T occ	RP610-3M	
P611	P615	325T occ	323T occ	
P612	P602	304T occ	RP612-1M	
P612	P604	304T occ	RP612-2M	
P612	P633	304T occ	RP612-3M	
P612	UPSG	304T occ	RP612-4S	
P613	P614	310T occ	RP613-1M	
P613	P854	EP854G 'off'	\$P613 . -\$P854	
P614	P612	310T occ	RP614-1M	
P614	LSLH	318T occ	316T occ . \$P614	
P614	CLRT	314T occ	R71 . \$P614	
P615	P627	329T occ	RP615-1M	
P615	LPBH	329T occ	RP615-2M	
P616	P614	318T occ	RP616-1M	
P617	P627	330T occ	RP617-1M	
P618	P610	324T occ	326T occ	
P619	P627	333T occ	RP619-1M	
P621	P627	333T occ	RP621-1M	
P622	P618	332T occ	RP622-1M	
P622	P860	332T occ	RP622-2S	
P622	P860	332T occ	RP622-3S	

EDINBURGH S.C IECC A WORKSTATION 2 TD CONTROL TABLES

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
P622	P860	332T occ	RP622-4S	
P622	P860	332T occ	RP622-5S	
P622	P860	332T occ	RP622-6S	
P623	P627	330T occ	RP623-1M	
P624	P618	328AT occ	RP624-1M	
P627	P860	EP860G 'off'	\$P627 . -\$P860 . RP860-1S	
P627	P860	EP860G 'off'	\$P627 . -\$P860 . RP860-2S	
P627	P860	EP860G 'off'	\$P627 . -\$P860 . RP860-3S	
P627	P860	EP860G 'off'	\$P627 . -\$P860 . RP860-4S	
P629	P635	343T occ	RP629-1M	
P633	P635	347T occ	RP633-1M	
P633	P605	P605G 'off'	\$P633 . -\$P605 . 294T occ	
P634	P605	352T occ	RP634-1M	
P634	M028	352T occ	RP634-2M	
P635	P637	357T occ	353T occ	
P635	P864	EP864G 'off'	\$P635 . -\$P864 . RP864-1S	
P635	P864	EP864G 'off'	\$P635 . -\$P864 . RP864-2S	
P637	SDSD	\$P637		COPY STEP
P852	P604	305T occ	RP852-1S	
P852	P633	305T occ	RP852-2S	
P853	P602	EP602G 'off'	\$P853 . -\$P602 . -RP853-1S	
P853	P613	300T occ	RP853-1S	
P854	P613	EP613G 'off'	\$P854. -\$P613	
P854	UPSG	304T occ	RP854-1S	
P854	P602	304T occ	RP854-2S	
P854	P604	304T occ	RP854-3S	
P854	P633	304T occ	RP854-4S	
P855	P613	304T occ	RP855-1S	
P858	P852	311T occ	RP858Y-1S . \$P858	
P859	P617	317T occ	RP859-1S	
P860	P627	EP627G 'off'	\$P860 . -\$P627 . -RP860-1S . -RP860-2S . -RP860-3S . -RP860-4S	
P860	CN01	331T occ	RP860-1S	
P860	CN02	331T occ	RP860-2S	
P860	CN03	331T occ	RP860-3S	
P860	CN04	331T occ	RP860-4S	

EDINBURGH S.C IECC A
WORKSTATION 2 TD CONTROL TABLES

Fm BRTH	To BRTH	TRIGGER	CONDITIONS	REMARK
P860	CN01	331T occ	RP860-1S (PSS)	
P860	CN02	331T occ	RP860-2S (PSS)	
P860	CN03	331T occ	RP860-3S (PSS)	
P860	CN04	331T occ	RP860-4S (PSS)	
P861	P623	319T occ	RP861-1S	
P864	P605	349T occ	RP864-1S	
P864	M028	349T occ	RP864-2S	
P864	P635	EP635G 'off'	\$P864 . -\$P635 . -RP864-1S . -RP864-2S	
R241	A241	MB241G 'off'	\$R241 . -\$A241 . -\$B241 . -\$C241	
R241	CLRT	1721T clr		
R243	A243	MB243G 'off'	\$R243 . -\$A243 . -\$B243 . -\$C243	
R243	CLRT	1720T clr		
RDDG	CLRT	-\$APDG	\$RDDG	
RNLU	CLRT	-\$ANLU	\$RNLU	
RSLD	CLRT	-\$S672	\$RSLD	
RSLU	CLRT	-\$ASLU	\$RSLU	
S670	P634	356T occ	\$S670	
S672	RSLD	\$S672		SPECIAL COPY STEP
SDUG	LSUG	-\$M586		
SDSD	LSSD	357T clr	\$SDSD	
SEMA	LEMA	-\$MD02	\$SEMA	
SEMD	LEMD	-\$X065	\$SEMD	
X065	CLRT	155T clr	\$X065	
X065	SEMD	\$X065		COPY STEP

Note: The prefix RM refers to routes in the Millerhill SSI and Monkpanes RII area, but not all routes within the Monkpanes RII area use prefix RM. The class of the route is not shown in Millerhill SSI IDs.

Updated		
Version	Produced	Checked
AC2		
AE1		
AQ1		
AW1		
BB1		

PRODUCED		26/01/2017
CHECKED		26/1/2017
ISSUED		

