

ACCEPTANCE COPY

CROSSRAIL NORTH EAST INFRASTRUCTURE  
AND STATION WORKS PROJECT STAGE 3  
STRATFORD IECC B  
TRAIN DESCRIBER

AS DETAILED ON INDEX SHEET A02LIV-RIECB-20-TD-X1

Production IECC Design DERBY  
Version BA1  
Contact [Redacted]  
Tel. No. [Redacted]

Approval Copy		
Designation	Date	Signature
Contractor's Responsible Engineer	11/02/2016	[Redacted]
Network Rail Production		
Network Rail Infrastructure		



VERSION		SCHEME PLAN		DRAWING NUMBERS	APPROVED FOR CONSTRUCTION	PREPARED FOR ISSUE	DISTRIBUTION									
ALTERATION LETTER	CHANGE NUMBER	No.	VERSION													
		DESCRIPTION OF CHANGE														
BA	1	CROSSRAIL NORTH EAST INFRASTRUCTURE AND STATION WORKS PROJECT STAGE 3  TD INDEX, BLOCK SCHEMATICS & STEPPING TABLES REPRODUCED FROM DRAWING NUMBERS A02LIV-3206D-Q-NDX1 VERSION AX1, A02LIV-3206D-Q-NDX2 VERSION AX1, A02LIV-3206D-Q-NDX3 VERSION AJ1, A02LIV-3206D-Q-BS1 VERSION AMQ1, A02LIV-3206D-Q-BS2 VERSION AJ1, A02LIV-3206D-Q-BS3 VERSION AMQ1, A02LIV-3206D-Q-CT1 VERSION AJ2, A02LIV-3206D-Q-CT2 VERSION AJ2, A02LIV-3206D-Q-CT3 VERSION AMQ1.  CONVERSION TO IECC UPGRADED WORKSTATION.		NEW SHEETS:  A02LIV-RIECB-20-TD-X1, A02LIV-RIECB-20-TD-BS-01, A02LIV-RIECB-20-TD-BS-02, A02LIV-RIECB-20-TD-ST-01, A02LIV-RIECB-20-TD-ST-02, A02LIV-RIECB-20-TD-ST-03.		<div>12/2/2016</div>	NETWORK RAIL ACCEPTANCE COPY									
<div>APPROVAL COPY</div> <table><tr><td>APPROVED BY</td><td>SIGNATURE</td><td>DATE</td></tr><tr><td>DELTARAIL CRE</td><td></td><td>11/02/2016</td></tr><tr><td>DELTARAIL CEM</td><td></td><td>11/2/16</td></tr></table>								APPROVED BY	SIGNATURE	DATE	DELTARAIL CRE		11/02/2016	DELTARAIL CEM		11/2/16
APPROVED BY	SIGNATURE	DATE														
DELTARAIL CRE		11/02/2016														
DELTARAIL CEM		11/2/16														

TESTER NAME										SIGNATURE			DATE			ACTIVITY			COMPLETE			DATE			Source Record Updated			Produced			Checked			Issued			National Records Group			Drawing No			Last Full Correlation			Date			Version		
1																Prep. Inspection																					LIVERPOOL STREET SC			A02LIV-RIECB-TD/AIR/1											
2																Prep. W.C. and Cont																					STRATFORD IECC B														
3																Prep. S. & F./C.F.T.																					TRAIN DESCRIPTOR														
4																Cable core Loc. End																					APPROVAL AND ISSUES RECORD														
5																Cable core Equ. End																																			
																Changeover Comp																																			

Complete tester details in your own check marking colour.  
Sign off for completed activities.

CAO GENERATED : ALTERATIONS TO BE MADE ON DESIGN FILE ONLY

CAO - A3 NR.AIR v1.0

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**Complete tester details in your own check marking colour.  
Sign off for completed activities.**

ACCEPTANCE COPY

VERSION BA1

Source Record Updated		
Version	Produced	Checked
BA1		

ALL NEW WORK

Last Full Correlation	Version	Date

	Initials	Signed	Date
PRODUCED			10/02/2016
CHECKED			10/02/2016
ISSUED			

**LIVERPOOL STREET S.C**  
**STRATFORD IECC B**  
**TD CONTROL TABLES - SHEET 1 OF 3**

**BERTH ABBREVIATIONS**

ADCR	APPROACH TO DOWN CARPENTERS ROAD
AUCC	APPROACH TO UP CHANNELSEA CURVE
BOWJ	APPROACH TO GAS FACTORY CURVE
CCAP	APPROACH FROM CHANNELSEA CURVE
CRAP	APPROACH FROM CARPENTERS ROAD
LSBY	LAST SENT TO BOW YARD
LSCS	LAST SENT TO DALSTON JUNCTION / TEMPLE MILLS
LSDC	LAST SENT ON DOWN FACTORY CURVE
LSUE	LAST SENT ON UP ELECTRIC
LSUM	LAST SENT ON UP MAIN
LSUR	LAST SENT TO MILE END SIDINGS
QAP3	FOR ONWARD TRANSMISSION TO TEMPLE MILLS CONTROL AREA (DOWN DIRECTION)
QAP4	FOR ONWARD TRANSMISSION TO TEMPLE MILLS CONTROL AREA (UP DIRECTION)
RAPP	SPECIAL STEP FOR DRW FROM GAS FACTORY CURVE
RCAP	SPECIAL STEP FOR DRW FROM CHANNELSEA CURVE
RRAP	SPECIAL STEP FOR DRW FROM CARPENTERS ROAD
SDDJ	HOLDING BERTH FOR LAST SENT TO DALSTON JUNCTION
SDTM	HOLDING BERTH FOR LAST SENT TO TEMPLE MILLS
UAPP	APPROACH FROM GAS FACTORY CURVE



**LIVERPOOL STREET S.C**  
**STRATFORD IECC B**  
**TD CONTROL TABLES - SHEET 1 OF 3**

**SIGNALLING AND STEPPING DATA REQUIREMENTS**

FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0095	R095	\$Q095	\$0095	SPECIAL COPY STEP (Generates DRW)
0201	R201	\$0201		SPECIAL COPY STEP (Generates DRW)
0220	LSUM	MMK clr	MMJ occ	
0221	0225	MAJ occ	MAH occ	
0222	LSUE	EML clr	EMK occ	
0223	0227	EAJ occ	R0223 (AM)	
0224	0220	MMK occ	MML occ	
0225	0229	MAM occ	MAJ occ	
0226	5057	EMN occ	R0226 (AS)	
0226	0222	EMN occ	R0226 (BM)	
0227	0231	EAN occ	EAM occ	
0228	0224	MML occ	MMP occ	
0229	0237	MAN occ	R0229 (AM)	
0229	0239	MAN occ	R0229 (BM)	
0229	0241	MAN occ	R0229 (CM)	
0230	0226	EMS occ	EMT occ	
0231	0241	EAT occ	R0231 (AM)	
0231	0245	EAT occ	R0231 (BM)	
0234	0228	TMA occ	R0234 (AM)	
0234	0239	0239G 'off'	\$0234. -\$0239	
0235	0241	CAC occ	R0235 (AM)	
0235	0245	CAC occ	R0235 (BM)	
0237	ADCR	\$0237	-\$0249. R0237(AM). R0249(AM)	COPY STEP
0237	ADCR	R0237(AM)	-\$0249. \$0237. R0249(AM)	COPY STEP
0237	ADCR	R0249(AM)	-\$0249. \$0237. R0237(AM)	COPY STEP
0237	0249	TAC occ	R0237 (AM)	
0239	ADCR	\$0239	-\$0251. R0239(AM). R0251(AM)	COPY STEP
0239	ADCR	R0239(AM)	-\$0251. \$0239. R0251(AM)	COPY STEP
0239	ADCR	R0251(AM)	-\$0251. \$0239. R0239(AM)	COPY STEP
0239	0234	0234G 'off'	\$0239. -\$0234	
0239	0251	TMC occ	R0239 (AM)	
0240	0228	MBA occ	R0240 (C-1M) + R0240 (C-2M)	
0240	0230	MBA occ	R0240 (BM)	
0240	0241	0241G 'off'	\$0240. -\$0241	
0240	BOWJ	\$0240	R0240(AM)	COPY STEP
0240	BOWJ	R0240(AM)	\$0240	COPY STEP
0240	U518	MBA occ	R0240 (AM)	
0241	ADCR	\$0241	-\$0251. R0241(AM). R0251(AM)	COPY STEP
0241	ADCR	R0241(AM)	-\$0251. \$0241. R0251(AM)	COPY STEP
0241	ADCR	R0251(AM)	-\$0251. \$0241. R0241(AM)	COPY STEP
0241	0240	0240G 'off'	\$0241. -\$0240	
0241	0251	MBC occ	R0241 (AM)	
0241	0253	MBC occ	R0241 (BM)	
0242	0228	MNB occ	R0242 (CM)	
0242	0230	MNB occ	R0242 (BM)	
0242	BOWJ	\$0242	R0242(AM)	COPY STEP
0242	BOWJ	R0242(AM)	\$0242	COPY STEP
0242	U518	MNB occ	R0242 (AM)	
0244	0230	ENA occ	R0244 (BM)	

**LIVERPOOL STREET S.C  
STRATFORD IECC B  
TD CONTROL TABLES - SHEET 1 OF 3**

NAA3E-ESG-DRG-DRA-000003 A01 - Page 7 of 30

FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0244	BOWJ	\$0244	R0244(AM)	COPY STEP
0244	BOWJ	R0244(AM)	\$0244	COPY STEP
0244	U518	ENA occ	R0244 (AM)	
0245	0255	EBD occ	R0245 (AM)	
0248	5070	TAJ occ	R0248 (CS)	
0248	0234	TAJ occ	R0248 (BM)	
0248	0240	TAJ occ	R0248 (AM)	
0248	0259	0259G 'off'	\$0248. -\$0259	
0249	5070	5070G 'off'	\$0249 .-\$5070	
0249	0259	TAJ occ	R0249 (BM)	
0249	ADCR	\$0249	R0249 (AM)	COPY STEP
0249	ADCR	R0249 (AM)	\$0249	COPY STEP
0249	1296	TAJ occ	R0249 (AM)	
0250	0234	TMJ occ	R0250 (BM)	
0250	0240	TMJ occ	R0250 (A-1M) + R0250 (A-2M)	
0250	0261	0261G 'off'	\$0250. -\$0261	
0251	0259	TMH occ	R0251 (BM)	
0251	0261	TMH occ	R0251 (CM)	
0251	ADCR	\$0251	R0251 (AM)	COPY STEP
0251	ADCR	R0251 (AM)	\$0251	COPY STEP
0251	1296	TMH occ	R0251 (AM)	
0252	0240	MBH occ	R0252 (AM)	
0253	0240	0240G 'off'	\$0253 .-\$0240. -\$0241	
0253	0261	MBG occ	R0253 (AM)	
0253	0263	MBG occ	R0253 (BM) + R0253 (BW)	
0253	0265	MBG occ	R0253 (CM)	
0254	0242	MND occ	R0254 (AM)	
0254	BOWJ	\$0254	R0254(AM). R0242(AM). -\$0242	COPY STEP
0254	BOWJ	R0242(AM)	R0254(AM). \$0254. -\$0242	COPY STEP
0254	BOWJ	R0254(AM)	R0242(AM). \$0254. -\$0242	COPY STEP
0255	0257	EBG occ	R0255 (AM) + R0255 (AW)	
0256	0244	ENF occ	R0256 (AM)	
0256	0267	ENJ occ	R5073 (AS)	
0256	0268	ENJ occ	R5073 (CS). \$0279	
0256	0279	ENJ occ	R5073 (CS). -\$0279	
0256	BOWJ	\$0256	R0256(AM). R0244(AM). -\$0244	COPY STEP
0256	BOWJ	R0244(AM)	R0256(AM). \$0256. -\$0244	COPY STEP
0256	BOWJ	R0256(AM)	R0244(AM). \$0256. -\$0244	COPY STEP
0257	0267	EBJ occ	R0257 (AM)	
0257	0268	EBJ occ	R0257 (CC)	
0257	0279	EBJ occ	R0257 (CM)	
0258	0248	CDA occ	R0258 (AM)	
0259	0248	0248G 'off'	\$0259. -\$0248. P2140N	
0259	0281	TAP occ	R0259(CM)	
0259	QAP3	\$0259	R0259(AM)	COPY STEP
0259	QAP3	R0259(AM)	\$0259	COPY STEP
0259	QAP4	\$0259	R0259(BM)	COPY STEP
0259	QAP4	R0259(BM)	\$0259	COPY STEP
0259	S697	TAP occ	R0259(AM)	
0259	S901	TAP occ	R0259(BM)	

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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0261	0250	0250G 'off'	\$0261. -\$0250	
0261	0273	TMN occ	R0261 (CM)	
0261	0281	TMN occ	R0261 (BM)	
0261	QAP4	\$0261	R0261 (AM)	COPY STEP
0261	QAP4	R0261 (AM)	\$0261	COPY STEP
0261	S901	TMN occ	R0261 (AM)	
0262	0252	MBP occ	R0262 (BM)	
0262	0254	MBP occ	R0262 (AM)	
0262	0273	0273G 'off'	\$0262. MBT occ. MBW occ. -\$0273. -\$0270	
0262	CLRT	MBW clr	\$0262.MBT clr.-UMBP-BA	
0263	0273	MBP occ	R0263 (AM)	
0264	0252	MNL occ	R0264 (BM)	
0264	0254	MNL occ	R0264 (AM)	
0264	0275	0275G 'off'	\$0264. -\$0275	
0264	CLRT	MNP clr	\$0264.-UMNL-BA	
0265	0275	MNL occ	R0265 (AM)	
0266	0256	EBS occ	R0266 (AM)	
0266	0277	0277G 'off'	\$0266. -\$0277	
0266	0277	R0267 (AC)	\$0266. -\$0277	
0266	CLRT	EBW clr	EBT clr. EBU clr. \$0266.-UEBS-BA	
0267	0266	EBR occ	R0267 (AC)	
0267	0277	EBR occ	R0267 (AM)	
0268	0256	ENR occ	R0268 (AM)	
0268	0279	0279G 'off'	\$0268. -\$0279	
0268	0279	R0257 (CC)	\$0268. -\$0279	
0268	0279	R5073 (CS)	\$0268. -\$0279	
0268	CLRT	ENW clr	ENS clr. ENT clr. \$0268.-UENR-BA	
0269	0281	CEP occ	R0269(CM)	
0269	QAP3	\$0269	R0269(AM)	COPY STEP
0269	QAP3	R0269(AM)	\$0269	COPY STEP
0269	S697	CEP occ	R0269(AM)	
0269	QAP4	\$0269	R0269(BM)	COPY STEP
0269	QAP4	R0269(BM)	\$0269	COPY STEP
0269	S901	CEP occ	R0269(BM)	
0270	0250	MBT occ	R0270 (BM)	
0270	0262	MBT occ	R0270 (AM)	
0270	0273	0273G 'off'	\$0270. -\$0273	
0270	CLRT	MBW clr	\$0270.-UMBT-BA.-UMBT-CA	
0270	AUCC	\$0270	R0270 (CM) + R0270 (DM)	COPY STEP
0270	AUCC	R0270 (CM)	\$0270	COPY STEP
0270	AUCC	R0270 (DM)	\$0270	COPY STEP
0270	B292	MBT occ	R0270 (CM)	
0270	1294	MBT occ	R0270 (DM)	
0273	0262	0262G 'off'	\$0273. MBW occ. MBT occ. -\$0262. -\$0270	
0273	0270	0270G 'off'	\$0273. -\$0270	
0273	0289	MCA occ	R0273 (A-1M) + R0273 (A-2M)	
0273	0291	MCA occ	R0273 (BM)	
0273	CLRT	MBW clr	\$0273.-UMCA-AC.-UMCA-BC	
0273	CLRT	MBT clr	\$0273.MBW clr.-UMCA-AC.-UMCA-BC	
0274	0248	TAU occ	R0274 (AM)	



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**TD CONTROL TABLES - SHEET 1 OF 3**

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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0274	CLRT	TAX clr	TAW clr. \$0274.-UTAU-BA	
0275	0264	0264G 'off'	\$0275. -\$0264	
0275	0289	MPA occ	R0275 (AM)	
0275	0291	MPA occ	R0275 (BM)	
0275	CLRT	MNP clr	\$0275.-UMPA-AB	
0276	0248	TMU occ	R0276 (BM)	
0276	0250	TMU occ	R0276 (AM)	
0276	CLRT	TMX clr	\$0276.TMW clr.-UTMU-BA	
0276	AUCC	\$0276	R0276 (CM) + R0276 (DM)	COPY STEP
0276	AUCC	R0276 (CM)	\$0276	COPY STEP
0276	AUCC	R0276 (DM)	\$0276	COPY STEP
0276	B292	TMU occ	R0276 (CM)	
0276	1294	TMU occ	R0276 (DM)	
0277	0266	0266G 'off'	\$0277. -\$0266	
0277	0266	R0290 (AC)	\$0277. -\$0266	
0277	0266	R0292 (B-1C)	\$0277. -\$0266	
0277	0266	R0292 (B-2C)	\$0277. -\$0266	
0277	0266	R0294 (BC)	\$0277. -\$0266	
0277	0283	ECA occ	R0277 (AM) + R0277 (AW)	
0277	CLRT	EBT clr	EBU clr. EBW clr. \$0277.-UECA-AB	
0278	0248	TMS occ	R0278 (BM)	
0278	0250	TMS occ	R0278 (AM)	
0278	0281	0281G 'off'	\$0278. -\$0281	
0278	CLRT	RCA clr	\$0278.-UTMS-CB	
0278	AUCC	\$0278	R0278 (CM) + R0278 (DM)	COPY STEP
0278	AUCC	R0278 (CM)	\$0278	COPY STEP
0278	AUCC	R0278 (DM)	\$0278	COPY STEP
0278	B292	TMS occ	R0278 (CM)	
0278	1294	TMS occ	R0278 (DM)	
0279	0268	0268G 'off'	\$0279. -\$0268	
0279	0268	R0284 (AC)	\$0279. -\$0268	
0279	0285	EPA occ	R0279 (AM)	
0279	CLRT	ENS clr	ENT clr. ENW clr. \$0279.-UEPA-AB	
0281	0278	0278G 'off'	\$0281. -\$0278	
0281	0295	RCC occ	R0281 (AM)	
0281	CLRT	RCA clr	\$0281. -URCC-AB	
0283	0285	ECC occ	R0283 (CM)	
0283	0289	ECC occ	R0283 (AM)	
0283	0291	ECC occ	R0283 (BM)	
0284	0268	EPA occ	R0284 (AM)	
0284	0279	EPA occ	R0284 (AC)	
0285	0287	ECH occ	R0285 (BM)	
0285	0291	ECH occ	R0285 (AM)	
0286	0284	EPC occ	R0286(AM)	
0287	0293	ECL occ	R0287 (AM) + R0287 (AW)	
0288	0286	EPF occ	R0288 (AM)	
0289	0290	0290G 'off'	\$0289. -\$0290	
0289	0297	MCH occ	R0289 (CM)	
0289	0299	MCH occ	R0289(AM)	
0289	0301	MCH occ	R0289( BM)	

**LIVERPOOL STREET S.C  
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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0289	0315	MCH occ	R0289 (DM)	
0290	0264	MCD occ	R0290 (BM)	
0290	0266	MCD occ	R0290 (AM)	
0290	0270	MCD occ	R0290 (C-1M) + R0290 (C-2M)	
0290	0277	MCD occ	R0290 (AC)	
0290	0278	MCD occ	R0290 (DM)	
0290	0289	0289G 'off'	\$0290. -\$0289	
0291	0292	0292G 'off'	\$0291. -\$0292	
0291	0297	MPK occ	R0291 (CM)	
0291	0299	MPK occ	R0291 (AM)	
0291	0301	MPK occ	R0291 (BM)	
0291	0315	MPK occ	R0291 (DM)	
0292	0264	MPF occ	R0292 (CM)	
0292	0266	MPF occ	R0292 (B-1M) + R0292 (B-2M)	
0292	0270	MPF occ	R0292 (DM)	
0292	0277	MPF occ	R0292 (B-1C) + R0292 (B-2C)	
0292	0286	MPF occ	R0292 (AM)	
0292	0291	0291G 'off'	\$0292. -\$0291	
0293	0294	0294G 'off'	\$0293. -\$0294	
0293	0297	ECP occ	R0293 (AM)	
0293	0315	ECP occ	R0293 (BM)	
0294	0266	ECL occ	R0294 (BM)	
0294	0277	ECL occ	R0294 (BC)	
0294	0286	ECL occ	R0294 (AM)	
0294	0293	0293G 'off'	\$0294. -\$0293	
0295	0289	RCE occ	R0295 (AM)	
0296	0288	EPH occ	R0296 (AM)	
0297	0303	ECX occ	ECW occ	
0298	0296	EPM occ	EPN occ	
0299	0304	0304G 'off'	\$0299. -\$0304	
0299	0309	MDA occ	R0299 (AM)	
0300	0298	EPP occ	EPT occ	
0301	0306	0306G 'off'	\$0301. -\$0306	
0301	0311	MRA occ	R0301 (AM)	
0303	0305	EDA occ	ECY occ	
0303	0308	0308G 'off'	\$0303. -\$0308	
0304	0290	MCM occ	R0304 (BM)	
0304	0292	MCM occ	R0304 (AM)	
0304	0299	0299G 'off'	\$0304. -\$0299	
0305	0307	EDB occ	EDA occ	
0306	0290	MPR occ	R0306 (BM)	
0306	0292	MPR occ	R0306 (AM)	
0306	0301	0301G 'off'	\$0306. -\$0301	
0307	0313	EDG occ	EDD occ	
0308	0290	ECW occ	R0308 (CM)	
0308	0292	ECW occ	R0308 (BM)	
0308	0294	ECW occ	R0308 (AM)	
0308	0303	0303G 'off'	\$0308. -\$0303	
0309	0317	MDF occ	R0309 (BM)	
0309	0319	MDF occ	R0309 (CM)	

LIVERPOOL STREET S.C  
STRATFORD IECC B  
TD CONTROL TABLES - SHEET 1 OF 3

FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0309	0321	MDF occ	R0309 (AM)	
0310	0290	EPW occ	R0310 (DM)	
0310	0292	EPW occ	R0310 (CM)	
0310	0294	EPW occ	R0310 (BM)	
0310	0300	EPW occ	R0310 (AM)	
0311	0317	MRH occ	R0311 (AM)	
0311	0319	MRH occ	R0311 (BM)	
0313	0317	EDH occ	R0313 (AM)	
0313	0319	EDH occ	R0313 (BM)	
0314	0310	ERA occ	ERB occ	
0315	0319	ERG occ	R0315 (AM)	
0316	0306	MRB occ	MRE occ	
0316	0311	0311G 'off'	\$0316. -\$0311	
0317	0323	EDP occ	R0317 (AM)	
0317	0909	EDP occ	R0317 (BM)	
0319	0911	ERN occ	R0319 (AM)	
0320	0314	ERC occ	ERF occ	
0321	0329	MEA occ	MDG (2) occ	
0323	0325	EEE occ	EDU occ	
0324	0320	ERG occ	ERH occ	
0325	0327	EEF occ	EEE occ	
0326	0304	MRK occ	R0326 (BM)	
0326	0316	MRK occ	R0326 (AM)	
0328	0304	EDP occ	R0328 (CM)	
0328	0308	EDP occ	R0328 (AM)	
0328	0316	EDP occ	R0328 (BM)	
0330	0304	ERM occ	R0330 (DM)	
0330	0308	ERM occ	R0330 (BM)	
0330	0316	ERM occ	R0330 (CM)	
0330	0324	ERM occ	R0330 (AM)	
0332	0328	BAA occ	R0332 (AM)	
0334	0330	BMA occ	R0334 (AM)	
0336	0330	RSA occ	R0336 (AM)	
0338	0330	ESB occ	R0338 (AM)	
0340	0326	MSA occ	R0340 (AM)	
0909	0332	0332G'off'	\$0909.-\$0332	
0911	0334	0334G'off'	\$0911.-\$0334	
1292	SDDJ	\$1292		COPY STEP
1294	SDTM	\$1294		COPY STEP
1296	0248	0248G 'off'	TAK occ. -\$0248. P2140R. \$1296	
1296	0258	0258G 'off'	CDB occ. \$1296	
5057	0227	EMM occ	R5057 (AS)	
5057	LSUR	EMM clr	\$5057. P2117R	
5065	LSBY	SBA clr	TAC clr	
5065	0249	SBA occ	R5065(BS)	
5070	5065	TAC occ	R5070 (AS)	
5070	0249	0249G 'off'	\$5070.-\$0249	
ADCR	CLRT	-R0249(AM)	\$ADCR . \$0237 . R0237(AM) . -\$0249	
ADCR	CLRT	-R0249(AM)	\$ADCR. \$0249	
ADCR	CLRT	-R0251(AM)	\$ADCR. \$0251	



**LIVERPOOL STREET S.C  
STRATFORD IECC B  
TD CONTROL TABLES - SHEET 1 OF 3**

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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
ADCR	CLRT	-R0251(AM)	\$ADCR. \$0239. R0239(AM). -\$0251	
ADCR	CLRT	-R0251(AM)	\$ADCR. \$0241. R0241(AM). -\$0251	
AUCC	CLRT	-R0270(CM)	\$AUCC . \$0270	
AUCC	CLRT	-R0270(DM)	\$AUCC . \$0270	
AUCC	CLRT	-R0276(CM)	\$AUCC . \$0276	
AUCC	CLRT	-R0276(DM)	\$AUCC . \$0276	
AUCC	CLRT	-R0278(CM)	\$AUCC . \$0278	
AUCC	CLRT	-R0278(DM)	\$AUCC . \$0278	
BOWJ	CLRT	\$LSDC		
CCAP	RCAP	\$CCAP		SPECIAL COPY STEP (Generates DRW)
CRAP	RRAP	\$CRAP		SPECIAL COPY STEP (Generates DRW)
CRAP	RRAP	L4004 RELN unset	\$CRAP.-\$RRAP	COPY STEP
CRAP	RRAP	Toggle latch set	L4004 RELN set.\$CRAP.-\$RRAP	COPY STEP
NDCN	5057	5057G 'off'	-\$5057	NOT DESCRIBED DESCRIPTION STEP (Generates NDA)
NDCN	5065	R5065 (BS)	-\$5065	NOT DESCRIBED DESCRIPTION STEP (Generates NDA)
QAP3	CLRT	-\$0259	\$QAP3. R0259 (AM)	
QAP3	CLRT	-R0259 (AM)	\$QAP3	
QAP3	CLRT	-\$0269	\$QAP3. R0269 (AM)	
QAP3	CLRT	-R0269 (AM)	\$QAP3	
QAP4	CLRT	-\$0259	\$QAP4.R0259 (BM)	
QAP4	CLRT	-R0259 (BM)	\$QAP4	
QAP4	CLRT	-\$0261	\$QAP4.R0261 (AM)	
QAP4	CLRT	-R0261 (AM)	\$QAP4	
QAP4	CLRT	-\$0269	\$QAP4.R0269 (BM)	
QAP4	CLRT	-R0269 (BM)	\$QAP4	
R095	CLRT	\$0203	\$R095	
R201	CLRT	\$0221	\$R201	
RAPP	CLRT	\$0235	\$RAPP	
RAPP	CLRT	Toggle latch unset	L4001 RELN set.\$RAPP	
RCAP	CLRT	-\$CCAP	\$RCAP	
RRAP	CLRT	-\$CRAP	\$RRAP	
RRAP	CLRT	Toggle latch unset	L4004 RELN set. \$RRAP	
SDDJ	LSCS	CDH/CDG clr	\$SDDJ	
SDTM	LSCS	CEF/CED clr	\$SDTM	
S697	0274	0274G 'off'	\$S697. -\$0274	
S697	CLRT	TAW clr	TAX clr. \$S697.-UTAY-AB	
S901	0276	0276G' off	\$S901. -\$0276	
S901	CLRT	TMW clr	TMX clr. \$S901.-UTMY-AB	
U518	0235	0235G 'off'	CAB occ	
U518	LSDC	(UR) BBA occ	BBB occ	
UAPP	0235	\$L235	\$UAPP.-\$0235	
UAPP	RAPP	\$UAPP		SPECIAL COPY STEP (Generates DRW)
UAPP	RAPP	L4001 RELN unset	\$UAPP.-\$RAPP	COPY STEP
UAPP	RAPP	Toggle latch set	L4001 RELN set.\$UAPP.-\$RAPP	COPY STEP



# ACCEPTANCE COPY

VERSION BA1

Source Record Updated		
Version	Produced	Checked
BA1		

ALL NEW WORK

Last Full Correlation	Version	Date

	Initials	Signed	Date
PRODUCED			10/02/2016
CHECKED			10/02/2016
ISSUED			

BERTH ABBREVIATIONS

ALDS	ENTRY INTO ALDERSBROOK SIDINGS
DELS	LAST SENT ON DOWN ELECTRIC
DMLS	LAST SENT ON DOWN MAIN
GFAC	APPROACH TO GIDEA PARK COUNTRY END
GFAL	APPROACH TO GIDEA PARK LONDON END
ICIN	ILFORD CARRIAGE SIDINGS INLET
IFAC	APPROACH TO ILFORD CARRIAGE SIDINGS COUNTRY END
IFAL	APPROACH TO IFORD CARRIAGE SIDINGS LONDON END
RAS1	RECEPTION, ALDERSBROOK SIDING NUMBER 1
RAS2	RECEPTION, ALDERSBROOK SIDING NUMBER 2
RAS3	RECEPTION, ALDERSBROOK SIDING NUMBER 3
RAS4	RECEPTION, ALDERSBROOK SIDING NUMBER 4
RAS5	RECEPTION, ALDERSBROOK SIDING NUMBER 5
RCHS	RECEPTION, CHADWELL HEATH SIDINGS
RGP1	RECEPTION, GIDEA PARK CARRIAGE SIDINGS
RGP2	RECEPTION, GIDEA PARK CENTRE SPUR
RGP3	RECEPTION, GIDEA PARK GOODS LOOP SHUNT SPUR LONDON END
RGP4	RECEPTION, GIDEA PARK UP SIDINGS A
RGP5	RECEPTION, GIDEA PARK UP SIDINGS B
RGP6	RECEPTION, GIDEA PARK GOODS LOOP SHUNT SPUR COUNTRY END
RGPC	RECEPTION, GIDEA PARK SIDINGS COUNTRY END
RGPL	RECEPTION, GIDEA PARK SIDINGS LONDON END
RIFC	RECEPTION, ILFORD SIDINGS COUNTRY END
RIFL	RECEPTION, ILFORD SIDINGS LONDON END
ROM1	ROMFORD PLATFORM 1
RRED	RECEPTION, ROMFORD ENGINEERS DEPOT
RROM	RECEPTION, ROMFORD PLATFORM 1
UMIN	RECEPTION, UPMINSTER END
XROM	COMMON BERTH, ROMFORD PLATFORM 1

**LIVERPOOL STREET S.C**  
**STRATFORD IECC B**  
**TD CONTROL TABLES - SHEET 2 OF 3**

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**SIGNALLING AND STEPPING DATA REQUIREMENTS**

FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0327	0331	EEH occ	EEG occ	
0329	0335	MEB occ	R0329(AM)	
0329	0345	MEB occ	R0329(BM)	
0329	IFAL	R0329(AM)	R0335(AM). R0341(BM). R0349(AM). L353com(s). \$0329. -\$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0329	IFAL	R0335(AM)	R0329(AM). R0341(BM). R0349(AM). L353com(s). \$0329. -\$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0329	IFAL	R0341(BM)	R0329(AM). R0335(AM). R0349(AM). L353com(s). \$0329. -\$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0329	IFAL	R0349(AM)	R0329(AM). R0335(AM). R0341(BM). L353com(s). \$0329. -\$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0329	IFAL	L353com(s)	R0329(AM). R0335(AM). R0341(BM). R0349(AM). \$0329. -\$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0329	IFAL	\$0329	R0329(AM). R0335(AM). R0341(BM). R0349(AM). L353com(s). -\$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0329	IFAL	-\$IFAL	R0329(AM). R0335(AM). R0341(BM). R0349(AM). L353com(s). \$0329. -\$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0329	IFAL	R0329(BM)	R0345(AM). L351com(s). \$0329. -\$0345. -\$0351	COPY STEP
0329	IFAL	R0345(AM)	R0329(BM). L351com(s). \$0329. -\$0345. -\$0351	COPY STEP
0329	IFAL	L351com(s)	R0329(BM). R0345(AM). \$0329. -\$0345. -\$0351	COPY STEP
0329	IFAL	\$0329	R0329(BM). R0345(AM). L351com(s). -\$0345. -\$0351	COPY STEP
0329	IFAL	-\$IFAL	R0329(BM). R0345(AM). L351com(s). \$0329. -\$0345. -\$0351	COPY STEP
0331	0333	EEN occ	EEM occ	
0331	IFAL	R0343(BM)	R0349(AM). L353com(s). \$0331. -\$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0331	IFAL	R0349(AM)	R0343(BM). L353com(s). \$0331. -\$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0331	IFAL	L353com(s)	R0343(BM). R0349(AM). \$0331. -\$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0331	IFAL	\$0331	R0343(BM). R0349(AM). L353com(s). -\$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0331	IFAL	-\$IFAL	R0343(BM). R0349(AM). L353com(s). \$0331. -\$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0333	0339	EES occ	EER occ	
0333	IFAL	R0343(BM)	R0349(AM). L353com(s). \$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0333	IFAL	R0349(AM)	R0343(BM). L353com(s). \$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0333	IFAL	L353com(s)	R0343(BM). R0349(AM). \$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0333	IFAL	\$0333	R0343(BM). R0349(AM). L353com(s). -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0333	IFAL	-\$IFAL	R0343(BM). R0349(AM). L353com(s). \$0333. -\$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0335	0341	REC occ	R0335(AM)	
0335	IFAL	R0335(AM)	R0341(BM). R0349(AM). L353com(s). \$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0335	IFAL	R0341(BM)	R0335(AM). R0349(AM). L353com(s). \$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0335	IFAL	R0349(AM)	R0335(AM). R0341(BM). L353com(s). \$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0335	IFAL	L353com(s)	R0335(AM). R0341(BM). R0349(AM). \$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0335	IFAL	\$0335	R0335(AM). R0341(BM). R0349(AM). L353com(s). -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0335	IFAL	-\$IFAL	R0335(AM). R0341(BM). R0349(AM). L353com(s). \$0335. -\$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0337	0354	0354G'off'	\$0337. -\$0354	
0337	0354	R5078(AS)	\$0337. -\$0354	
0337	0354	R5080(AS)	\$0337. -\$0354	
0337	0354	R5082(AS)	\$0337. -\$0354	
0337	0354	R5084(AS)	\$0337. -\$0354	
0337	0354	R5086(AS)	\$0337. -\$0354	
0337	RAS1	RSL occ	R0337(AS)	
0337	RAS2	RSL occ	R0337(BS)	
0337	RAS3	RSL occ	R0337(CS)	
0337	RAS4	RSL occ	R0337(DS)	
0337	RAS5	RSL occ	R0337(ES)	
0337	X101	\$0337		QUIET COPY STEP
0337	X101	-\$0354	\$0337	QUIET COPY STEP
0339	0343	EFA occ	EET occ	
0339	IFAL	R0343(BM)	R0349(AM). L353com(s). \$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0339	IFAL	R0349(AM)	R0343(BM). L353com(s). \$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0339	IFAL	L353com(s)	R0343(BM). R0349(AM). \$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0339	IFAL	\$0339	R0343(BM). R0349(AM). L353com(s). -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0339	IFAL	-\$IFAL	R0343(BM). R0349(AM). L353com(s). \$0339. -\$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0341	0347	RFA occ	R0341(BM)	
0341	IFAL	R0341(BM)	R0349(AM). L353com(s). \$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0341	IFAL	R0349(AM)	R0341(BM). L353com(s). \$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP



**LIVERPOOL STREET S.C**  
**STRATFORD IECC B**  
**TD CONTROL TABLES - SHEET 2 OF 3**

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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0341	IFAL	L353com(s)	R0341(BM). R0349(AM). \$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0341	IFAL	\$0341	R0341(BM). R0349(AM). L353com(s). -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0341	IFAL	-\$IFAL	R0341(BM). R0349(AM). L353com(s). \$0341. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0341	R366	RFA occ	R0341(AM) + R0341(AC)	
0343	0347	EFC occ	R0343(BM)	
0343	IFAL	R0343(BM)	R0349(AM). L353com(s). \$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0343	IFAL	R0349(AM)	R0343(BM). L353com(s). \$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0343	IFAL	L353com(s)	R0343(BM). R0349(AM). \$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0343	IFAL	\$0343	R0343(BM). R0349(AM). L353com(s). -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0343	IFAL	-\$IFAL	R0343(BM). R0349(AM). L353com(s). \$0343. -\$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0343	R366	EFC occ	R0343(AM) + R0343(AC)	
0345	0351	MFA occ	R0345(AM)	
0345	IFAL	R0345(AM)	L351com(s). \$0345. -\$0351	COPY STEP
0345	IFAL	L351com(s)	R0345(AM). \$0345. -\$0351	COPY STEP
0345	IFAL	\$0345	R0345(AM). L351com(s). -\$0351	COPY STEP
0345	IFAL	-\$IFAL	R0345(AM). L351com(s). \$0345. -\$0351	COPY STEP
0346	0338	ESE occ	ESF occ	
0347	0349	EFF occ	EFE occ	
0347	IFAL	R0349(AM)	L353com(s). \$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0347	IFAL	L353com(s)	R0349(AM). \$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0347	IFAL	\$0347	R0349(AM). L353com(s). -\$0349. -\$0353. -\$0368	COPY STEP
0347	IFAL	-\$IFAL	R0349(AM). L353com(s). \$0347. -\$0349. -\$0353. -\$0368	COPY STEP
0349	0353	EFH occ	R0349(AM)	
0349	0368	0368G'off'	\$0349. -\$0368	
0349	IFAL	R0349(AM)	L353com(s). \$0349. -\$0353	COPY STEP
0349	IFAL	L353com(s)	R0349(AM). \$0349. -\$0353	COPY STEP
0349	IFAL	\$0349	R0349(AM). L353com(s). -\$0353	COPY STEP
0349	IFAL	-\$IFAL	R0349(AM). L353com(s). \$0349. -\$0353	COPY STEP
0349	CLRT	EFF clr	EFG clr. EFE occ. \$0349. -UEFH-AB	
0350	0346	ESF occ	ESG occ	
0351	0355	MFC occ	R0351(DM)	
0351	0359	MFC occ	R0351(EM)	
0351	RIFL	MFC occ	R0351(AS) + R0351(BS) + R0351(CS)	
0351	IFAL	L351com(s)	\$0351	COPY STEP
0351	IFAL	\$0351	L351com(s)	COPY STEP
0352	0350	ESJ occ	R0352(AM)	
0353	0355	EFM occ	R0353(DM)	
0353	RIFL	EFM occ	R0353(AS) + R0353(BS) + R0353(CS)	
0353	IFAL	L353com(s)	\$0353	COPY STEP
0353	IFAL	\$0353	L353com(s)	COPY STEP
0354	0336	RSH occ	R0354(AM)	
0354	0337	0337G'off'	\$0354. -\$0337	
0354	0350	RSH occ	R0354(BM)	
0354	X101	-\$0337	\$0354	QUIET COPY STEP
0354	X101	\$0354		QUIET COPY STEP
0355	0357	EGA occ	R0355(AM) + R0355(AW)	
0356	0340	MSB occ	MSC occ	
0357	0363	EGD occ	R0357(AM)	
0357	0367	EGD occ	R0357(BM)	
0358	5087	5087G'off'	\$0358. -\$5087	
0358	0352	ESK occ	ESL occ	
0359	0369	MFH occ	R0359(AM)	
0360	0354	RSL occ	R0360(AM)	
0361	0363	SGD occ	R0361(BM)	
0361	0367	SGD occ	R0361(CM)	
0362	0358	ETB occ	R0362(AM)	
0362	0951	0951G 'off'	\$0362. -\$0951	



LIVERPOOL STREET S.C  
STRATFORD IECC B  
TD CONTROL TABLES - SHEET 2 OF 3

FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0362	CLRT	ETD clr	\$0362. ETE occ. ETC clr. -UETB-BA	
0363	5088	5088G'off'	\$0363. -\$5088	
0363	0365	EGH occ	EGG occ	
0363	IFAC	\$0363	L5088comS (s). -\$5088	COPY STEP
0363	IFAC	L5088comS (s)	-\$5088. \$0363	COPY STEP
0363	IFAC	-\$IFAC	L5088comS (s). \$0363. -\$5088	COPY STEP
0364	0356	MTA occ	R0364(BM)	
0364	0360	MTA occ	R0364(AM)	
0364	0953	0953G 'off'	\$0364. -\$0953	
0364	CLRT	MTB clr	\$0364. MTZ occ	
0365	5088	5088G'off'	\$0365. -\$0363. -\$5088	
0365	0371	EGL occ	EGK occ	
0365	IFAC	\$0365	L5088comS (s). -\$0363. -\$5088	COPY STEP
0365	IFAC	L5088comS (s)	-\$5088. -\$0363. \$0365	COPY STEP
0365	IFAC	-\$IFAC	L5088comS (s). \$0365. -\$0363. -\$5088	COPY STEP
0367	0379	EUK occ	R0367(AM)	
0367	0392	0392G'off'	\$0367. -\$0392	
0367	CLRT	EUH clr	\$0367. EUJ clr. -UEUK-AB	
0367	IFAC	L392com(s)	\$0367. -\$0392	COPY STEP
0367	IFAC	\$0367	L392com(s)	COPY STEP
0367	IFAC	-\$IFAC	L392com(s). \$0367. -\$0392	COPY STEP
0368	0349	0349G'off'	\$0368. -\$0349	
0368	0353	0353G 'off'	\$0368. -\$0349. -\$0353	
0368	0358	EFE occ	R0368(AM)	
0368	CLRT	EFG clr	\$0368. EFH occ. EFF clr. -UEFE-CB	
0368	IFAL	R0349(AM)	L353com(s). \$0368. -\$0353. -\$0349	COPY STEP
0368	IFAL	L353com(s)	R0349(AM). \$0368. -\$0353. -\$0349	COPY STEP
0368	IFAL	\$0368	R0349(AM). L353com(s). -\$0353. -\$0349	COPY STEP
0368	IFAL	-\$IFAL	R0349(AM). L353com(s). \$0368. -\$0353. -\$0349	COPY STEP
0369	0379	MGB occ	R0369(AM)	
0370	0362	ETE occ	R0370(AM) + R0370(AW)	
0371	0373	EGM occ	EGL occ	
0372	0370	ETF occ	ETG occ	
0373	0375	EHA occ	EGP occ	
0374	0364	ETK occ	R0374(AM)	
0374	0372	ETK occ	R0374(BM)	
0375	0377	EHD occ	EHB occ	
0376	0364	MTD occ	R0376(AM)	
0377	0381	EHG occ	EHE occ	
0378	0368	SFD occ	R0378(BM)	
0378	0372	SFD occ	R0378(AM)	
0379	0389	MHD occ	MHA occ	
0380	0364	SFE occ	R0380(AM)	
0380	0368	SFE occ	R0380(CM)	
0380	0372	SFE occ	R0380(BM)	
0381	0383	EHK occ	EHH occ	
0382	0368	SFB occ	R0382(BM)	
0382	0372	SFB occ	R0382(AM)	
0383	0385	EHM occ	EHL occ	
0384	0364	EFP occ	R0384(AM)	
0384	0372	EFP occ	R0384(BM)	
0385	0387	EHP occ	EHN occ	
0386	0374	EUB occ	R0386(AM) + R0386(AW)	
0387	0391	EJA occ	R387(AM)	
0387	R936	EJA occ	R387(BM)	
0388	0386	EUD occ	EUE occ	
0389	0395	MJA occ	MHE occ	
0390	0376	MTG occ	MUA occ	

**LIVERPOOL STREET S.C**  
**STRATFORD IECC B**  
**TD CONTROL TABLES - SHEET 2 OF 3**

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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0391	0393	EJD occ	EJC occ	
0392	RIFC	EUG occ	R0392(CS)	
0392	0367	0367G'off'	\$0392. -\$0367	
0392	0388	EUG occ	R0392(AM)	
0392	CLRT	EUJ clr	\$0392. EUH clr. -UEUG-BA	
0392	ICIN	EUG occ	R0392(BS)	
0392	IFAC	L392com(s)	\$0392	COPY STEP
0392	IFAC	\$0392	L392com(s)	COPY STEP
0393	0397	EJE occ	EJD occ	
0394	0392	EUK occ	R0394(AM)	
0394	IFAC	L392com(s)	R0394(AM). -\$0367. -\$0392. \$0394	COPY STEP
0394	IFAC	\$0394	L392com(s). R0394(AM). -\$0367. -\$0392	COPY STEP
0394	IFAC	R0394(AM)	L392com(s). -\$0367. -\$0392. \$0394	COPY STEP
0394	IFAC	-\$IFAC	L392com(s). R0394(AM). -\$0367. -\$0392. \$0394	COPY STEP
0395	0401	MJC occ	MJA occ	
0396	0394	EUM occ	R0396(AM)	
0396	IFAC	L392com(s)	R0394(AM). R0396(AM). -\$0367. -\$0392. -\$0394. \$0396	COPY STEP
0396	IFAC	\$0396	L392com(s). R0394(AM). R0396(AM). -\$0367. -\$0392. -\$0394	COPY STEP
0396	IFAC	R0394(AM)	L392com(s). R0396(AM). -\$0367. -\$0392. -\$0394. \$0396	COPY STEP
0396	IFAC	R0396(AM)	L392com(s). R0394(AM). -\$0367. -\$0392. -\$0394. \$0396	COPY STEP
0396	IFAC	-\$IFAC	L392com(s). R0396(AM). R0394(AM). -\$0367. -\$0392. -\$0394. \$0396	COPY STEP
0397	0399	EJH occ	EJG occ	
0398	0396	EUP occ	R0398(AM)	
0398	IFAC	L392com(s)	R0394(AM). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. \$0398	COPY STEP
0398	IFAC	\$0398	L392com(s). R0394(AM). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396	COPY STEP
0398	IFAC	R0394(AM)	L392com(s). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. \$0398	COPY STEP
0398	IFAC	R0396(AM)	L392com(s). R0394(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. \$0398	COPY STEP
0398	IFAC	R0398(AM)	L392com(s). R0394(AM). R0396(AM). -\$0367. -\$0392. -\$0394. -\$0396. \$0398	COPY STEP
0398	IFAC	-\$IFAC	L392com(s). R0396(AM). R0394(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. \$0398	COPY STEP
0399	0403	EKA occ	R0399(AM)	
0400	0390	MUB occ	R0400(AM)	
0400	0394	MUB occ	R0400(BM)	
0400	IFAC	L392com(s)	R0394(AM). R0400(BM). -\$0367. -\$0392. -\$0394. \$0400	COPY STEP
0400	IFAC	\$0400	L392com(s). R0394(AM). R0400(BM). -\$0367. -\$0392. -\$0394	COPY STEP
0400	IFAC	R0394(AM)	L392com(s). R0400(BM). -\$0367. -\$0392. -\$0394. \$0400	COPY STEP
0400	IFAC	R0400(BM)	L392com(s). R0394(AM). -\$0367. -\$0392. -\$0394. \$0400	COPY STEP
0400	IFAC	-\$IFAC	L392com(s). R0400(BM). R0394(AM). -\$0367. -\$0392. -\$0394. \$0400	COPY STEP
0401	0405	MKB occ	R0401(AM)	
0402	0398	EUS occ	EUT occ	
0402	IFAC	L392com(s)	R0394(AM). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. \$0402	COPY STEP
0402	IFAC	\$0402	L392com(s). R0394(AM). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398	COPY STEP
0402	IFAC	R0394(AM)	L392com(s). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. \$0402	COPY STEP
0402	IFAC	R0396(AM)	L392com(s). R0394(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. \$0402	COPY STEP
0402	IFAC	R0398(AM)	L392com(s). R0394(AM). R0396(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. \$0402	COPY STEP
0402	IFAC	-\$IFAC	L392com(s). R0396(AM). R0394(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. \$0402	COPY STEP
0403	0407	EKC occ	EKA occ	
0404	0402	EWA occ	EWB occ	
0404	IFAC	L392com(s)	R0394(AM). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. -\$0402. \$0404	COPY STEP
0404	IFAC	\$0404	L392com(s). R0394(AM). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. -\$0402	COPY STEP
0404	IFAC	R0394(AM)	L392com(s). R0396(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. -\$0402. \$0404	COPY STEP
0404	IFAC	R0396(AM)	L392com(s). R0394(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. -\$0402. \$0404	COPY STEP
0404	IFAC	R0398(AM)	L392com(s). R0394(AM). R0396(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. -\$0402. \$0404	COPY STEP
0404	IFAC	-\$IFAC	L392com(s). R0396(AM). R0394(AM). R0398(AM). -\$0367. -\$0392. -\$0394. -\$0396. -\$0398. -\$0402. \$0404	COPY STEP
0405	0409	MKC occ	R0405(AM)	
0405	0411	MKC occ	R0405(BM)	
0406	0404	EWC occ	EWD occ	
0407	0413	EKE occ	EKC occ	
0408	0400	MWB occ	R0408(AM)	



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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0409	0415	RKC occ	R0409(AM)	
0409	0419	RKC occ	R0409(BM)	
0409	5104	R5100(DS)	\$0409. -\$5104	
0409	5104	R5102(DS)	\$0409. -\$5104	
0409	5109	5109G'off'	P2214R. P2216N. P2217R. \$0409. -\$5109. EYE occ	
0410	0406	EWf occ	EWf occ	
0411	0415	MKF occ	R0411(AM)	
0411	0419	MKF occ	R0411(BM)	
0411	5096	R5100(CS)	\$0411. -\$5096	
0411	5096	R5102(CS)	\$0411. -\$5096	
0411	5109	5109 G 'off'	\$0411. -\$5109. EYE occ. P2214N. P2217R. P2216N	
0412	0410	EWK occ	EWL occ	
0413	0415	EKF occ	R0413(AM)	
0414	0412	EWL occ	EWN occ	
0415	5102	5102G'off'	\$0415. -\$5102	
0415	0417	EKK occ	EKJ occ	
0416	5099	MWE occ	R0416(AS)	
0416	5101	R5099(AS)	\$0416. -\$5101	
0416	0408	MWE occ	R0416(BM)	
0417	5102	5102G'off'	\$0417. -\$0415. -\$5102	
0417	0421	EKM occ	EKL occ	
0417	GFAL	\$0417	R0431(AS). [R0427(AM) + R0427(AW)]. [R0423(AM) + R0423(AW)]. -\$0431. -\$0427. -\$0423. -\$0421. -\$0458. -\$GFAL	COPY STEP
0417	GFAL	R0431(AS)	[R0427(AM) + R0427(AW)]. [R0423(AM) + R0423(AW)]. \$0417. -\$0421. -\$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0417	GFAL	R0427(AM) + R0427(AW)	R0431(AS). [R0423(AM) + R0423(AW)]. \$0417. -\$0421. -\$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0417	GFAL	R0423(AM) + R0423(AW)	R0431(AS). [R0427(AM) + R0427(AW)]. \$0417. -\$0421. -\$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0417	GFAL	-\$GFAL	R0431(AS). [R0423(AM) + R0423(AW)]. [R0427(AM) + R0427(AW)]. \$0417. -\$0421. -\$0423. -\$0431. -\$0427. -\$0458	COPY STEP
0418	0414	EWf occ	EXA occ	
0419	0425	MKL occ	MKJ occ	
0419	5100	5100G'off'	\$0419. -\$5100	
0419	5100	\$0419	5100G 'off'. MKH clr. -\$5100	
0419	CLRT	MKJ clr	\$0419	
0420	0418	EXB occ	R420(AM)	
0421	0423	EKP occ	EKN occ	
0421	GFAL	\$0421	R0431(AS). [R0427(AM) + R0427(AW)]. [R0423(AM) + R0423(AW)]. -\$0431. -\$0427. -\$0423. -\$0458. -\$GFAL	COPY STEP
0421	GFAL	R0431(AS)	[R0427(AM) + R0427(AW)]. [R0423(AM) + R0423(AW)]. \$0421. -\$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0421	GFAL	R0427(AM) + R0427(AW)	R0431(AS). [R0423(AM) + R0423(AW)]. \$0421. -\$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0421	GFAL	R0423(AM) + R0423(AW)	R0431(AS). [R0427(AM) + R0427(AW)]. \$0421. -\$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0421	GFAL	-\$GFAL	R0431(AS). [R0423(AM) + R0423(AW)]. [R0427(AM) + R0427(AW)]. \$0421. -\$0423. -\$0431. -\$0427. -\$0458	COPY STEP
0422	0420	EXD occ	R422(AM)	
0423	0427	ELA occ	R0423(AM) + R0423(AW)	
0423	GFAL	\$0423	R0431(AS). [R0427(AM) + R0427(AW)]. [R0423(AM) + R0423(AW)]. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0423	GFAL	R0431(AS)	[R0427(AM) + R0427(AW)]. [R0423(AM) + R0423(AW)]. \$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0423	GFAL	R0427(AM) + R0427(AW)	R0431(AS). [R0423(AM) + R0423(AW)]. \$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0423	GFAL	R0423(AM) + R0423(AW)	R0431(AS). [R0427(AM) + R0427(AW)]. \$0423. -\$0431. -\$0427. -\$0458. -\$GFAL	COPY STEP
0423	GFAL	-\$GFAL	R0431(AS). [R0423(AM) + R0423(AW)]. [R0427(AM) + R0427(AW)]. \$0423. -\$0431. -\$0427. -\$0458	COPY STEP
0424	0416	MXC occ	R0424(AM)	
0425	0429	MLA occ	MKL occ	
0426	0422	EXE occ	EXF occ	
0427	0431	ELC occ	R0427(AM) + R0427(AW)	
0427	GFAL	R0427(AM) + R0427(AW)	R0431(AS). \$0427. -\$0458. -\$0431. -\$GFAL	COPY STEP
0427	GFAL	R0431(AS)	[R0427(AM) + R0427(AW)]. \$0427. -\$0458. -\$0431. -\$GFAL	COPY STEP
0427	GFAL	\$0427	[R0427(AM) + R0427(AW)]. R0431(AS). -\$0458. -\$0431. -\$GFAL	COPY STEP
0427	GFAL	-\$GFAL	R0431(AS). [R0427(AM) + R0427(AW)]. \$0427. -\$0431. -\$0458	COPY STEP
0428	0426	EXF occ	EXH occ	
0429	0435	MLC occ	R0429(AM)	
0430	0424	MXD occ	MYA occ	
0431	0433	ELH occ	R0431(BM)	

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TD CONTROL TABLES - SHEET 2 OF 3**

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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0431	0458	0458G'off'	\$0431. -\$0458	
0431	0458	R0468(BC)	\$0431. -\$0458	
0431	RGPL	ELH occ	R0431(AS)	
0431	CLRT	ELF clr	\$0431. ELG clr. -UELH-AB	
0431	GFAL	R0431(AS)	\$0431. -\$GFAL	COPY STEP
0431	GFAL	\$0431	R0431(AS). -\$GFAL	COPY STEP
0431	GFAL	-\$GFAL	R0431(AS). \$0431	COPY STEP
0431	RGP2	ELH occ	R0431(CS)	
0432	0428	EXH occ	R0432(AM)	
0433	0441	ELN occ	R0433(AM)	
0433	0443	ELN occ	R0433(BM)	
0435	0441	MLE occ	R0435(AM)	
0435	0443	MLE occ	R0435(BM)	
0436	0432	EYA occ	EYC occ	
0437	0441	SZF occ	R0437(AM)	
0437	0443	SZF occ	R0437(BM)	
0437	0466	5116G'off'	\$0437. -\$0466. \$5116. P2237R	
0437	0466	5118G'off'	\$0437. -\$0466. \$5118	
0437	0466	\$5116	\$0437. -\$0466. 5116G 'off'. P2237R	
0437	0466	\$5118	\$0437. -\$0466. 5118G 'off'	
0437	0466	0466G'off'	\$0437. -\$0466	
0437	RGP5	SZE clr	PGP2 R. \$0437. SZD clr. SZF clr	
0437	RGP6	SZF occ	R0437(CS). \$0437	
0438	5107	5107G'off'	P2215N. \$0438. -\$5107. MYE occ	
0438	5107	MYE occ	5107'off'. \$0438. P2215N. -\$5107	
0438	5109	5109G'off'	P2215N. P2216R. P2217R. \$0438. -\$5109.EYE occ. -\$5107	
0438	0430	MYA occ	R0438(AM)	
0438	5111	5111 G 'off'	\$0438. -\$0444. -\$5111. MYH occ. P2215N	
0439	0441	SLR occ	R0439(BM)	
0439	0443	SLR occ	R0439(CM)	
0439	5114	SLR occ	R0439(AS)	
0440	5109	5109G'off'	\$0440. -\$5109. P2217N	
0440	0436	EYC occ	EYD occ	
0441	0445	ELU occ	R0441(AM)	
0441	5116	5116G'off'	\$0441. -\$5116. P2239N	
0442	5105	EYG occ	R0442(AS)	
0442	0438	EYG occ	R0442(BM)	
0442	0440	EYG occ	R0442(CM)	
0443	0449	MLM occ	R0443(AM)	
0443	5116	5116G'off'	\$0443. -\$5116. P2239R	
0443	5118	5118G'off'	\$0443. -\$5118	
0444	5105	MYG occ	R0444(AS)	
0444	5111	5111G'off'	\$0444. -\$5111	
0444	5111	R5107(CS)	\$0444. -\$5111	
0444	0438	MYG occ	R0444(BM)	
0444	CLRT	MYH clr	\$0444. -UMYG-BA	
0445	0447	EJ occ	ELV occ	
0446	0442	EYK occ	R0446(AM) + R0446(AW)	
0447	DELS	EJ clr	\$0447	
0448	0446	EYL occ	EYN occ	
0449	DMLS	CR clr	\$0449	
0450	5111	BYA occ	R0450(BS). \$0444	
0450	0444	BYA occ	R0450(BS). -\$0444	
0450	RROM	BYA occ	R0450(AM)	
0452	0448	EYP occ	EYR occ	
0454	0444	MYL occ	R0454(AM)	
0456	0452	EYR occ	EZA occ	
0458	0431	0431G'off'	\$0458. -\$0431	



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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0458	0456	ELE occ	R0458(AM)	
0458	CLRT	ELG clr	\$0458. ELF clr. -UELE-BA	
0458	GFAL	R0431(AS)	\$0458. -\$0431. -\$GFAL	COPY STEP
0458	GFAL	-\$GFAL	R0431(AS). \$0458. -\$0431	COPY STEP
0460	0456	EZC occ	R0460(AM)	
0460	5113	5113G'off'	\$0460. -\$5113	
0460	CLRT	EZD clr	\$0460. EZE occ	
0460	GFAL	R5113(AS)	\$0460. -\$5113. -\$GFAL	COPY STEP
0462	0454	MZA occ	MZB occ	
0462	5121	5121G'off'	\$0462. -\$5121	
0462	CLRT	MZB clr	\$0462	
0464	0458	SLK occ	R0464(BM)	
0464	0460	SLK occ	R0464(AM)	
0466	0437	0437G'off'	\$0466. -\$0437	
0466	0437	5121G'off'	\$0466. -\$0437. \$5121	
0466	0437	\$5121	\$0466. -\$0437. 5121G'off'	
0466	0462	SZD occ	R0466(BM)	
0466	RGP3	SZD occ	R0466(AS). \$0466	
0466	RGP4	SZE occ	R5121(AS). PGP1 R. \$0466	
0466	RGP4	SZE clr	PGP2 R. \$0466. -\$0437. SZD clr. SZF clr	
0468	0431	SLM occ	R0468(BC)	
0468	0458	SLM occ	R0468(BM)	
0468	0460	SLM occ	R0468(AM)	
0468	5113	SLM occ	R0468(AC)	
0470	5125	5125G'off'	\$0470. -\$5125	
0470	0460	EZG occ	R0470(AM) + R0470(AW)	
0472	0462	MZD occ	R0472(AM)	
0474	0470	EZP occ	R0474(BM)	
0474	0472	EZP occ	R0474(AM)	
0476	0470	MZK occ	R0476(BM)	
0476	0472	MZK occ	R0476(AM)	
0478	0474	FH occ	R0478(AM)	
0480	0476	DV occ	R0480(AM)	
0486	R486	\$0486		SPECIAL COPY STEP (Generates DRW)
0488	R488	\$0488		SPECIAL COPY STEP (Generates DRW)
0951	0355	ETE occ	R0951(AM)	
0951	0362	0362 G 'off'	\$0951. -\$0362	
0951	CLRT	ETC clr	ETB occ. ETD clr. \$0951. -UETE-AB	
0953	0359	MTZ occ	R0953(AM)	
0953	0364	0364 G 'off'	\$0953. -\$0364	
0953	CLRT	MTB clr	MTA occ. \$0953. -UMTZ-AB	
5078	0337	SSA occ	R5078(AS). \$0354	
5078	0354	SSA occ	R5078(AS)	
5080	0337	SSA occ	R5080(AS). \$0354	
5080	0354	SSA occ	R5080(AS)	
5082	0337	SSA occ	R5082(AS). \$0354	
5082	0354	SSA occ	R5082(AS)	
5084	0337	SSB occ	R5084(AS). \$0354	
5084	0354	SSB occ	R5084(AS)	
5086	0337	SSB occ	R5086(AS). \$0354	
5086	0354	SSB occ	R5086(AS)	
5087	0347	ETA occ	R5087(BS)	
5087	R366	ETA occ	R5087(AS)	
5088	ICIN	EGF occ	R5088(AS)	
5088	IFAC	L5088comS (s)	\$5088. -\$IFAC	COPY STEP
5088	IFAC	\$5088	L5088comS (s). -\$IFAC	COPY STEP
5096	0411	0411G 'off'	\$5096. -\$0411	
5096	5109	5109 G 'off'	\$5096. -\$5109. -\$0411. EYE occ.P2214N. P2216N. P2217R	

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**STRATFORD IECC B**  
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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
5096	CLRT	MKE clr	\$5096. MKF occ	
5099	5101	SWE occ	R5099(AS). -\$5101	
5099	0416	SWE occ	R5099(AS). \$5101	
5099	RCHS	SWE clr	MWE clr. \$5099	
5100	0409	MKH occ	R5100(DS). \$5104	
5100	0411	MKH occ	R5100(CS). \$5096	
5100	0419	-\$0419	\$5100. -5100G'off'	
5100	0438	MKH occ	R5100(BS). -\$0438	
5100	5096	MKH occ	R5100(CS). -\$5096	
5100	5104	MKH occ	R5100(DS). -\$5104	
5100	5105	MKH occ	R5100(AS)	
5100	5107	MKH occ	R5100(BS). \$0438	
5100	CLRT	MKJ clr	\$5100. -UMKH-CB	
5101	0416	0416G'off'	\$5101. -\$0416	
5102	0409	EKH occ	R5102(DS). \$5104	
5102	0411	EKH occ	R5102(CS). \$5096	
5102	0438	EKH occ	R5102(BS). -\$0438	
5102	0440	EKH occ	R5102(ES)	
5102	5096	EKH occ	R5102(CS). -\$5096	
5102	5104	EKH occ	R5102(DS). -\$5104	
5102	5105	EKH occ	R5102(AS)	
5102	5107	EKH occ	R5102(BS). \$0438	
5104	0409	0409G'off'	\$5104. -\$0409	
5104	5109	5109 G 'off'	\$5104. -\$5109. -\$0409. EYE occ. P2214R. P2216N. P2217R	
5104	CLRT	RKB clr	\$5104. RKC occ	
5105	5107	SYE occ	R5105(AS)	
5105	5107	5107G'off'	\$5105. -\$5107. MYE occ. P2215R	
5105	5109	5109G'off'	\$5105. -\$5109. EYE occ. P2215R. P2216R. P2217R. -\$5107	
5105	5111	5111 G 'off'	\$5105. -\$5111. -\$0444. P2215R. MYH occ	
5105	RRED	SYE clr	MYE clr. \$5105	
5107	0415	MYF occ	R5107(AS)	
5107	5100	MYF occ	R5107(BS). \$0419. -\$5100	
5107	5109	5109 G 'off'	\$5107. -\$5109. EYE occ. P2217R. P2216R. P2215N	
5107	5111	MYF occ	R5107(CS). -\$5111	
5107	0419	MYF occ	R5107(BS). -\$0419	
5107	0444	MYF occ	R5107(CS). \$5111. -\$0444	
5109	0415	EYF occ	R5109(AS)	
5111	0444	0444G'off'	\$5111. -\$0444	
5111	0444	R0450(BS)	\$5111. -\$0444	
5111	UMIN	MYK occ	R5111(AS)	
5111	CLRT	MYH clr	\$5111. -UMYK-AC. -UMYK-BC	
5113	0433	EZE occ	R5113(BS)	
5113	0460	0460G'off'	\$5113. -\$0460	
5113	0460	R0468(AC)	\$5113. -\$0460	
5113	RGPL	EZE occ	R5113(AS)	
5113	CLRT	EZD clr	\$5113. EZC occ. -UEZE-AB	
5113	GFAL	R5113(AS)	\$5113. -\$GFAL	COPY STEP
5113	GFAL	\$5113	R5113(AS). -\$GFAL	COPY STEP
5113	RGP2	EZE occ	R5113(C1S) + R5113(C2S)	
5114	5125	SLR occ	R5114(AS). \$0470	
5114	0470	SLR occ	R5114(AS). -\$0470	
5114	RGP1	SLR clr	ELP clr. P2234R. \$5114	
5116	RGPC	ELR occ	R5116(BS)	
5116	0437	ELR occ	R5116(AS). \$0466	
5116	0466	ELR occ	R5116(AS). -\$0466	

**LIVERPOOL STREET S.C  
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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
5116	GFAC	R5116(BS)	\$5116. -\$GFAC	COPY STEP
5116	GFAC	\$5116	R5116(BS). -\$GFAC	COPY STEP
5118	0437	MLH occ	\$0466. R5118(AS)	
5118	0466	MLH occ	R5118(AS). -\$0466	
5121	0437	MZD occ	R5121(AS). -\$0437. PGP1 N	
5121	0466	MZD occ	R5121(AS). \$0437. PGP1 N	
5121	0466	MZD occ	R5121(AS). PGP1 R	
5121	CLRT	MZB clr	\$5121. -UMZD-AC. -UMZD-BC	
5125	5114	EZJ occ	R5125(AS)	
5125	0470	0470G'off'	\$5125. -\$0470	
5125	0470	R5114(AS)	\$5125. -\$0470	
A366	0358	RFC occ	R0366(AM)	
A366	CLRT	-\$B366	\$A366. RFD clr. RFE clr	
A936	0418	SJB occ	R936(AM)	
A936	CLRT	-\$B936	\$A936. SJC clr	
ALDS	CLRT	-\$X101		
B366	A366	\$B366	0366G'off'. -\$A366	
B366	A366	0366G'off'	-\$A366. \$B366	
B366	CLRT	-\$R366	\$B366. RFD clr. RFE clr	
B936	A936	\$B936	-\$A936. 0936G 'off'	
B936	A936	0936G 'off'	-\$A936. \$B936	
B936	CLRT	-\$R936	\$B936. SJC clr	
GFAC	CLRT	SLR clr	\$GFAC .ELR clr . P2235R	
GFAC	CLRT	-R5116(BS)	\$GFAC	
GFAL	CLRT	SLK clr	\$GFAL. ELK clr. P2224R	
GFAL	CLRT	-R0431(AS)	\$GFAL	
GFAL	CLRT	-R5113(AS)	\$GFAL	
ICIN	RIFC	EGE clr	\$ICIN. P2197R. EGF clr. P2196N	
IFAC	CLRT	L5088comS (xs)	\$IFAC	
IFAC	CLRT	L0392 comS (xs)	\$IFAC	
IFAC	CLRT	-\$0392	\$IFAC. [R0392(BS) + R0392(CS)]	
IFAC	CLRT	-\$5088	\$IFAC. R5088(AS)	
IFAC	CLRT	-R0394(AM)	\$IFAC. -\$0367. -\$0392. L0392comS (s)	
IFAC	CLRT	-R0396(AM)	\$IFAC. -\$0394. -\$0367. -\$0392. L0392comS (s)	
IFAC	CLRT	-R0398(AM)	\$IFAC. -\$0396. -\$0394. -\$0367. -\$0392. L0392comS (s). R0396(AM)	
IFAC	CLRT	-R0400(BM)	\$IFAC. -\$0394. -\$0367. -\$0392. L0392comS (s)	
IFAL	CLRT	L0351 comS (xs)	\$IFAL	
IFAL	CLRT	L0353 comS (xs)	\$IFAL	
IFAL	CLRT	-\$0351	\$IFAL . [R0351(AS) + R0351(BS) + R0351(CS)]	
IFAL	CLRT	-\$0353	\$IFAL. [R0353(AS) + R0353(BS) + R0353(CS)]	
IFAL	CLRT	-R0349(AM)	\$IFAL. -\$0353. -L0351comS (s)	
IFAL	CLRT	-R0341(BM)	\$IFAL. -\$0353. -\$0349. -\$0368. -\$0347. -L0351comS (s)	
IFAL	CLRT	-R0335(AM)	\$IFAL. -\$0353. -\$0349. -\$0368. -\$0347. -\$0341. -L0351comS (s)	
IFAL	CLRT	-R0329(AM)	\$IFAL. -\$0353. -\$0349. -\$0368. -\$0347. -\$0341. -\$0335. -L0351comS (s)	
IFAL	CLRT	-R0343(BM)	\$IFAL. -\$0353. -\$0349. -\$0368. -\$0347. -L0351comS (s)	
IFAL	CLRT	-R0345(AM)	\$IFAL. -\$0351. -L353comS (s)	
IFAL	CLRT	-R0329(BM)	\$IFAL. -\$0351. -\$0345. -L353comS (s)	
NDCN	0361	0361G 'off'	P2196R. -\$0361	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0378	0378G 'off'	P2193R. -\$0378	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0380	0380G 'off'	P2194R. -\$0380	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>



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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
NDCN	0382	0382G 'off'	-\$0382	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0384	0384G 'off'	-\$0384	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0437	R0437(AM) + R0437(BM)	-\$0437 . -\$0466	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0466	R0466(BM)	-\$0466 . -\$0437	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0439	R0439(BM)	-\$0439	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0464	0464G 'off'	P2224R. -\$0464	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	0468	0468G 'off'	-\$0468	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5078	5078G 'off'	-\$5078	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5080	5080G'off'	-\$5080	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5082	5082G'off'	-\$5082	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5084	5084G'off'	-\$5084	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5086	5086G'off'	-\$5086	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5099	R5099(AS)	-\$5099	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5105	R5105(AS)	-\$5105	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
NDCN	5114	R5114(AS)	-\$5114	NOT DESCRIBED DESCRIPTION STEP (Generates NDA). <a href="#">NDCN to replace NICN in IECC Data.</a>
Q361	0361	\$Q361		SPECIAL COPY STEP (Generates DRW)
Q361	CLRT	\$0361	\$Q361	
Q378	0378	\$Q378		SPECIAL COPY STEP (Generates DRW)
Q378	CLRT	\$0378	\$Q378	
Q380	0380	\$Q380		SPECIAL COPY STEP (Generates DRW)
Q380	CLRT	\$0380	\$Q380	
Q382	0382	\$Q382		SPECIAL COPY STEP (Generates DRW)
Q382	CLRT	\$0382	\$Q382	



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TD CONTROL TABLES - SHEET 2 OF 3

FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
Q384	0384	\$Q384		SPECIAL COPY STEP (Generates DRW)
Q384	CLRT	\$0384	\$Q384	
Q431	0431	\$Q431		SPECIAL COPY STEP (Generates DRW)
Q431	CLRT	\$0431	\$Q431	
Q439	0439	\$Q439		SPECIAL COPY STEP (Generates DRW)
Q439	CLRT	\$0439	\$Q439	
Q458	0458	\$Q458		SPECIAL COPY STEP (Generates DRW)
Q458	CLRT	\$0458	\$Q458	
Q464	0464	\$Q464		SPECIAL COPY STEP (Generates DRW)
Q464	CLRT	\$0464	\$Q464	
Q468	0468	\$Q468		SPECIAL COPY STEP (Generates DRW)
Q468	CLRT	\$0468	\$Q0468	
R366	CLRT	RFD clr	RFE clr	
R486	CLRT	-\$0486	\$R486	
R488	CLRT	-\$0488	\$R488	
R936	A936	0936G 'off'	-\$A936. -\$B936. \$R936	
R936	CLRT	SJC clr	\$R936	
ROM1	UMIN	BYC occ	BYA occ . P2219N	
ROM1	XROM	\$ROM1		QUIET COPY STEP
RROM	XROM	\$RROM	-\$ROM1	QUIET COPY STEP
RROM	CLRT	BYA clr	BYC occ . P2219N. \$RROM	
UMIN	0450	P2219N	\$UMIN . -\$0450 . BYC occ	
UMIN	0450	R0450(BS)	\$UMIN . -\$0450 . BYC occ	
UMIN	0450	BYC occ	\$UMIN . -\$0450 . BYA clr	
UMIN	CLRT	BYC clr	BYA occ . \$UMIN	
XROM	CLRT	-\$ROM1	\$XROM	
X101	ALDS	\$X101		COPY STEP
X101	CLRT	-\$0337		QUIET STEP To be ordered after other steps under the same trigger in the IECC data.
X101	CLRT	-\$0354		QUIET STEP To be ordered after other steps under the same trigger in the IECC data.

ACCEPTANCE COPY

VERSION BA1

Source Record Updated		
Version	Produced	Checked
BA1		

ALL NEW WORK

Last Full Correlation	Version	Date

	Initials	Signed	Date
PRODUCED			10/02/2016
CHECKED			10/02/2016
ISSUED			

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TD CONTROL TABLES - SHEET 3 OF 3

BERTH ABBREVIATIONS

ADHM	APPROACH FROM HIGH MEADS JUNCTION
APP3	FOR ONWARD TRANSMISSION TO ORIENTWAY TD ONLY
APP4	FOR ONWARD TRANSMISSION TO ORIENTWAY TD ONLY
APST	APPROACH FROM SOUTH TOTTENHAM
APUT	SPECIAL STEP FOR DRW FROM COPPERMILL JUNCTION
AUHM	APPROACH TO HIGH MEADS JUNCTION
LSBD	LAST SENT TO COPPERMILL JUNCTION
LSDT	FOR ONWARD TRANSMISSION TO ORIENTWAY TD ONLY
LSDU	LAST SENT TO TILBURY/BARKING
LSSJ	FOR ONWARD TRANSMISSION TO ORIENTWAY TD ONLY
LSST	LAST SENT TO SOUTH TOTTENHAM
LUHM	LAST SENT TO HIGH MEADS JUNCTION
QAP3	FOR ONWARD TRANSMISSION, FROM STRATFORD CONTROL AREA (DOWN DIRECTION)
QAP4	FOR ONWARD TRANSMISSION, FROM STRATFORD CONTROL AREA (UP DIRECTION)
RAST	SPECIAL STEP FOR DRW FROM SOUTH TOTTENHAM
RDHM	SPECIAL STEP FOR DRW FROM HIGH MEADS JUNCTION
RDUT	APPROACH FROM COPPERMILL JUNCTION
ROWC	SPECIAL STEP FOR DRW FROM ORIENT WAY CARRIAGE SIDINGS
SSDT	HOLDING BERTH FOR LAST SENT TO STRATFORD, DOWN TEMPLE MILLS
SSSJ	HOLDING BERTH FOR LAST SENT TO STRATFORD, UP TEMPLE MILLS
SUHM	HOLDING BERTH FOR LAST SENT TO HIGH MEADS JUNCTION
UTHB	APPROACH TO SOUTH TOTTENHAM

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**SIGNALLING AND STEPPING DATA REQUIREMENTS**

FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0332	0909	909G 'off'	\$0332 . -\$0909	
0334	0911	911G 'off'	\$0334 . -\$0911	
0604	U604	\$0604		SPECIAL COPY STEP (Generates DRW)
0903	0907	HAI occ	R903A(M)	
0904	ST26	HMG occ	R904A(M)	
0904	UTHB	\$0904		COPY STEP
0906	U906	\$0906		SPECIAL COPY STEP (Generates DRW)
0906	U906	-\$T906	\$0906 . -\$U906	COPY STEP
0906	U906	LTOG4012 Set	\$0906 . \$T906 . -\$U906	COPY STEP LTOG4012 toggles ON/OFF every 2s .
0907	0913	HAL occ	R907A(M)	
0907	0915	HAL occ	R907B(M)	
0909	0913	BAC occ	R909A(M)	
0910	0332	HAP occ	R910A(M)	
0910	0913	913G 'off'	\$0910 . -\$0913	
0911	0915	BAD occ	R911A(M)	
0912	0334	HML occ	R912B(M)	
0912	0904	HML occ	R912A(M)	
0912	0915	915G 'off'	\$0912 . -\$0915	
0912	UTHB	\$0912	R912A(M) . -\$0904	COPY STEP
0912	UTHB	R912A(M)	\$0912 . -\$0904	COPY STEP
0913	0910	910G 'off'	\$0913 . -\$0910	
0913	0921	HAS occ	R913A(M)	
0915	0912	912G 'off'	\$0915 . -\$0912	
0915	0921	HMR occ	R915A(M)	
0918	0910	HAU occ	R918B(M)	
0918	0912	HAU occ	R918A(M)	
0918	UTHB	\$0918	R912A(M) . R918A(M) . -\$0904 . -\$0912	COPY STEP
0918	UTHB	R912A(M)	\$0918 . R918A(M) . -\$0904 . -\$0912	COPY STEP
0918	UTHB	R918A(M)	\$0918 . R912A(M) . -\$0904 . -\$0912	COPY STEP
0920	0910	HMU occ	R920B(M)	
0920	0912	HMU occ	R920A(M)	
0920	UTHB	\$0920	R912A(M) . R920A(M) . -\$0904 . -\$0912	COPY STEP
0920	UTHB	R912A(M)	\$0920 . R920A(M) . -\$0904 . -\$0912	COPY STEP
0920	UTHB	R920A(M)	\$0920 . R912A(M) . -\$0904 . -\$0912	COPY STEP
0921	0918	918G 'off'	\$0921 . -\$0918	
0921	U601	HAY occ	HAX occ	
0924	0920	HMX occ	HMZ occ	
0924	UTHB	\$0924	R912A(M) . R920A(M) . -\$0920 . -\$0904 . -\$0912	COPY STEP
0924	UTHB	R912A(M)	\$0924 . R920A(M) . -\$0920 . -\$0904 . -\$0912	COPY STEP
0924	UTHB	R920A(M)	\$0924 . R912A(M) . -\$0920 . -\$0904 . -\$0912	COPY STEP
APST	RAST	\$APST		SPECIAL COPY STEP (Generates DRW)
ST26	LSST	J62 clr	\$ST26	
U601	LSDU	(UR)CTC occ	(UR)CTB occ	
U604	CLRT	\$0924	\$U604	
U906	CLRT	\$U902	\$U906	
U906	CLRT	LTOG4012 Unset	\$T906 . \$U906	LTOG4012 toggles ON/OFF every 2s .
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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
0032	ROWC	\$0032		SPECIAL COPY STEP (Generates DRW)
0274	S697	S697G 'off'	\$0274 . -\$S697	
0274	SSDT	\$0274		COPY STEP
0276	S901	S901G 'off'	\$0276. -\$S901	
0276	SSSJ	\$0276		COPY STEP
1003	LSBD	NH clr	NG clr . \$1003	
1003	S770	S770G 'off'	\$1003 . -\$S770	
1424	SUHM	\$1424		COPY STEP
ADHM	RDHM	\$ADHM		SPECIAL COPY STEP (Generates DRW)
APP3	CLRT	-\$QAP3	\$APP3	
APP4	CLRT	-\$QAP4	\$APP4	
APUT	CLRT	\$S718	\$APUT	
H704	CLRT	-RS704B(M)	\$H704	
AUHM	CLRT	-\$H704	\$AUHM	
AUHM	CLRT	-\$S706	\$AUHM . -\$S704 . RS706A(M)	
AUHM	CLRT	-RS706A(M)	\$AUHM . -\$S704 . \$S706	
AUHM	CLRT	-\$S708	\$AUHM . -\$S704 . RS708B(M)	
AUHM	CLRT	-RS708B(M)	\$AUHM . -\$S704 . \$S708	
AUHM	CLRT	-\$S712	\$AUHM . -\$S704 . RS712(M)	
AUHM	CLRT	-RS712(M)	\$AUHM . -\$S704 . \$S712	
QAP3	APP3	\$QAP3		COPY STEP
QAP4	APP4	\$QAP4		COPY STEP
RDHM	CLRT	-\$ADHM	\$RDHM	
RDUT	APUT	\$RDUT		SPECIAL COPY STEP (Generates DRW)
ROWC	CLRT	-\$0032	\$ROWC	
S697	S701	TAY occ	RS697A(M)	Data to use Temple Mills RII's copy of TAY
S700	0274	TC occ	RS700B(M)	
S700	0276	TC occ	RS700A(M)	
S701	S705	TO occ	RS701A(M)	
S703	S705	H13 occ	RS703A(M)	
S704	1424	RE occ	RS704B(M)	
S704	H704	\$S704	RS704B(M)	COPY STEP
S704	H704	RS704B(M)	\$S704	COPY STEP
H704	AUHM	\$H704		COPY STEP
S704	S700	RE occ	RS704A(M)	
S705	S707	NC occ	RS705(M)	
S706	AUHM	\$S706	-\$S704 . RS704B(M) . RS706A(M)	COPY STEP
S706	AUHM	RS706A(M)	-\$S704 . RS704B(M) . \$S706	COPY STEP
S706	AUHM	RS704B(M)	-\$S704 . RS706A(M) . \$S706	COPY STEP
S706	CLRT	TLB clr	\$S706 . TLC clr	
S706	CLRT	TLC clr	\$S706 . TLB clr	
S706	CLRT	-\$S715	\$S706 . TLB clr . TLC clr	
S706	S704	TLA occ	RS706A(M)	
S706	S715	RS707B(M)	\$S706 . -\$S715	
S706	S715	RS707B(C)	\$S706 . -\$S715 . [TLB occ + TLC occ]	
S706	S715	S715G 'off'	\$S706 . -\$S715 . [TLB occ + TLC occ]	
S706	S906	TLA occ	RS706B(S)	
S707	CLRT	TDK clr	\$S707.UTDLAB f	
S707	S706	TDL occ	[RS707B(M) + RS707B(C)] . \$S715	

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FROM BERTH	TO BERTH	TRIGGER	CONDITIONS	REMARKS
S707	S708	TDL occ	RS707C(S)	
S707	S713	TDL occ	RS707A(M)	
S707	S715	TDL occ	[RS707B(M) + RS707B(C)] . -\$S706 . -\$S715	
S708	AUHM	\$S708	-\$S704 . RS704B(M) . RS708B(M)	COPY STEP
S708	AUHM	RS708B(M)	-\$S704 . RS704B(M) . \$S708	COPY STEP
S708	AUHM	RS704B(M)	-\$S704 . RS708B(M) . \$S708	COPY STEP
S708	CLRT	TLF clr	\$S708 . [TLA clr + P822N]	
S708	S704	TLF occ	RS708B(M)	
S708	S767	TLF occ	\$S708 . RS708A(S)	(\$S708 in Control to prevent alarm when send without ID)
S708	S906	TLF occ	RS708C(S)	
S712	AUHM	\$S712	-\$S704 . RS704B(M) . RS712(M)	COPY STEP
S712	AUHM	RS712(M)	-\$S704 . RS704B(M) . \$S712	COPY STEP
S712	AUHM	RS704B(M)	-\$S704 . RS712(M) . \$S712	COPY STEP
S712	S704	TUK occ	RS712(M)	
S713	1003	NF occ	RS713(M)	
S713	S906	S906G 'off'	-\$S906 . -\$S707 . \$S713 . TDK occ	Required for long train reversing into Plant Sidings
S715	1003	TLE occ	RS715(M)	
S715	CLRT	TLB clr	\$S715 . TLC clr	
S715	CLRT	TLC clr	\$S715 . TLB clr	
S715	CLRT	-\$S706	\$S715 . TLB clr . TLC clr	
S715	S706	S706G 'off'	\$S715 . -\$S706 . [TLC occ + TLB occ]	
S715	S706	RS716B(M)	\$S715 . -\$S706	
S715	S706	RS716B(C)	\$S715 . -\$S706 . [TLC occ + TLB occ]	
S715	S706	RS770B(S)	\$S715 . -\$S706 . [TLC occ + TLB occ]	
S716	S706	RL occ	[RS716B(M) + RS716B(C)] . -\$S706 . -\$S715	
S716	S712	RL occ	RS716C(M)	
S716	S715	RL occ	[RS716B(M) + RS716B(C)] . \$S706	
S716	S717	RL occ	RS716A(S)	
S717	1003	TLG occ	RS717A(M)	
S717	CLRT	TLG clr	\$S717 . [TLE clr + P829N]	
S717	S772	TLG occ	\$S717 . RS717B(S)	(\$S717 in Control to prevent alarm when send without ID)
S718	S716	RN occ	PAD occ	
S767	S708	TLF occ	\$S767 . RS767(S)	(\$S767 in Control to prevent alarm when send without ID)
S770	1003	-RS770A(S)	\$S770 . -\$1003	
S770	1003	-RS770B(S)	\$S770 . -\$1003	
S770	1003	-RS770C(S)	\$S770 . -\$1003	
S770	S706	NG occ	RS770B(S) . -\$S706	
S770	S712	NG occ	RS770C(S)	
S770	S715	NG occ	RS770B(S) . \$S706	
S770	S717	NG occ	RS770A(S)	
S772	CLRT	TLG clr	\$S772 . [TLE clr + P829N]	
S772	S717	TLG occ	\$S772 . RS772(S)	(\$S772 in Control to prevent alarm when send without ID)
S901	S701	TMY occ	RS901A(M)	Data to use Temple Mills RII's copy of TMY
S906	CLRT	TDK clr	\$S906 . UNCBA f	
S906	S707	S707G 'off'	\$S906 . -\$S707	
SSDT	LSDT	TAU occ	\$SSDT . LTTAU(DN)UK Unset	Data to use Temple Mills RII's copy of TAU
SSSJ	LSSJ	TMU occ	\$SSSJ . LTTMU(DN)UK Unset	Data to use Temple Mills RII's copy of TMU
SUHM	LUHM	WKM clr	\$SUHM	