


Date	Revision	Checked	Approved					Actual Work	Critical Remaining Work	Summary
06-Jul-10	ETN Programme Revision 3A Progress to 9 July 2010	SCS	BSC					Remaining Work	Milestone	

The Gantt chart displays the project timeline across five years (2008-2013) for various activities. Key milestones and events are marked with arrows and diamonds.


- ROAD FINISHING:** Activities include 225mm Base, 60mm Binder Course, 35mm Surface Course - Main Carriageway and Boi. A major event is the start of Road Finishing on 06-May-11.
- COMMISSIONING AND TESTING:** Activities include Installation of traffic light control, Road Signs and Markings, Parapets, Guard rails, Landscaping, Remove temporary traffic management. A major event is the start of Commissioning and Testing on 16-May-11.
- TTM PHASE 7 (CH. ~ 160-450):** Activities include TTM Phase 7 - Road closed (Ch.200-450), Old Ports Road Diversion Available, TTM Phase 7 COMPLETE. A major event is the completion of TTM Phase 7 on 01-Dec-11.
- Lindsay Road Retaining Wall W1A - Phase 2:** Activities include Preliminary works & excavation, Mobilisation, site installation and temporary fencing, Excavation, RW Structure, RW Foundation, RC Wall, Coping. A major event is the completion of RW Structure on 09-Nov-10.
- RW Finishing Works and Backfilling:** Activities include Waterproofing, Drainage, Brickwork, Stone drainage trench, Backfill and compact (ind. demolition of exist. RW), Vehide Parapets, LINDSAY ROAD RW W1A COMPLETE. A major event is the completion of RW Finishing Works and Backfilling on 23-Feb-11.
- TEMPORARY AND PRELIMINARY WORKS:** Activities include Establish temporary traffic management, Site dearance, Investigate services / outfall positions / inlet-outlet po. A major event is the start of Temporary and Preliminary Works on 14-Jul-10.
- TRACK IMPROVEMENT/CARRIAGEWAY/FOOTWAY:** Activities include COMMENCE TRACK/ROAD WORKS (CH. 160-4!, Remove existing footway, Plane out existing surfacing over Trams Footprint ('), Sawcut Separation - Tram Ducts Outer Edge (Ch.~), Carry out inspection and testing of Subgrade, Break Out / Excavate to formation of Tram Footpri, Tram Ducts & Chambers. A major event is the start of Track Improvement/Carrigeway/Footway on 12-May-11.


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


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




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


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


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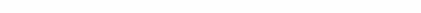
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float																			
						2008			2009			2010			2011			2012		2013		2014		
						I	N	D	J	F	M	A	J	J	S	O	N	D	J	F	M	A	J	
1A-24F-4A-1370	Drainage and Outfalls	6	06-Oct-11	14-Oct-11	271																			
1A-24F-4A-1380	Ducts and Chambers	6	06-Oct-11	14-Oct-11	271																			
1A-24F-4A-1390	Kerbing	3	12-Oct-11	17-Oct-11	245																			
1A-24F-4A-1400	Footpath Works & islands	9	14-Oct-11	27-Oct-11	271																			
<b>SURFACING</b>					4	17-Oct-11	21-Oct-11																	▼ 21-Oct-11, SURFACING
1A-24F-4A-1410	220mm Sub-base	1	17-Oct-11	18-Oct-11	245																			
1A-24F-4A-1420	225mm Base	1	18-Oct-11	19-Oct-11	245																			
1A-24F-4A-1430	60mm Binder Course	1	19-Oct-11	20-Oct-11	245																			
1A-24F-4A-1440	35mm Surface Course - Main Carriageway and Boi	1	20-Oct-11	21-Oct-11	245																			
<b>INBOUND</b>					28	21-Oct-11	01-Dec-11																	▼ 01-Dec-11, INBOUND
1A-24F-4A-1450	Plane Main Carriageway & Footway	2	21-Oct-11	25-Oct-11	245																			
1A-24F-4A-1460	Plane/break/excavate to Formation (incl. access roe	10	25-Oct-11	08-Nov-11	245																			
1A-24F-4A-1470	Capping layer (600mm)	10	26-Oct-11	09-Nov-11	245																			
1A-24F-4A-1480	Drainage and Outfalls	10	27-Oct-11	10-Nov-11	245																			
1A-24F-4A-1490	Ducts and Chambers	10	27-Oct-11	10-Nov-11	245																			
1A-24F-4A-1500	Kerbing	5	08-Nov-11	15-Nov-11	245																			
1A-24F-4A-1510	Footpath Vworks & islands	14	10-Nov-11	01-Dec-11	245																			
<b>SURFACING</b>					4	15-Nov-11	21-Nov-11																	▼ 21-Nov-11, SURFACING
1A-24F-4A-1520	220mm Sub-base	1	15-Nov-11	16-Nov-11	246																			
1A-24F-4A-1530	225mm Base	1	16-Nov-11	17-Nov-11	246																			
1A-24F-4A-1540	60mm Binder Course	1	17-Nov-11	18-Nov-11	246																			
1A-24F-4A-1550	35mm Surface Course - Main Carriageway and Boi	1	18-Nov-11	21-Nov-11	246																			
<b>ROAD FINISHING</b>					18	08-Nov-11	05-Dec-11																	▼ 05-Dec-11, ROAD FINISHING
1A-24F-4A-1560	Parapets, Guard rails	3	08-Nov-11	11-Nov-11	248																			
1A-24F-4A-1580	Installation of traffic light control - Junction 6C (1)	5	21-Nov-11	29-Nov-11	246																			
1A-24F-4A-1590	Grind Rail Joint and Sealing Compound	1	29-Nov-11	30-Nov-11	246																			
1A-24F-4A-1600	Road Signs and Markings	1	30-Nov-11	01-Dec-11	246																			
1A-24F-4A-1570	Landscaping	11	16-Nov-11	02-Dec-11	245																			
1A-24F-4A-1610	Remove temporary traffic management	1	02-Dec-11	05-Dec-11	245																			
<b>COMMISSIONING AND TESTING</b>					5	05-Dec-11	12-Dec-11																	▼ 12-Dec-11, COMMISSIONING AND TESTING
1A-24F-4A-TEST-100	Handover / Acceptance of Roadworks and Trackwo	5	05-Dec-11	12-Dec-11	245																			
1A-24F-4A-TEST-110	Start remaining E&M works along track	0	12-Dec-11		642																			
<b>TTM PHASE 4B (CH. ~ 830-1080)</b>					138	12-Dec-11	05-Jul-12																	▼ 05-Jul-12, TTM PHASE 4B (CH. ~ 830-
1A-24D-TTM-04B-1000	TTM PHASE 4B - Road closed (Ch.830-1080)	0	12-Dec-11		223																			◆ TTM PHASE 4B - Road closed (Ch.830-1080)
1A-24D-TTM-04B-1010	TTM PHASE 4B COMPLETE	0		05-Jul-12	482																			◆ TTM PHASE 4B COMPLETE
<b>TEMPORARY AND PRELIMINARY WORKS</b>					4	12-Dec-11	16-Dec-11																	▼ 16-Dec-11, TEMPORARY AND PRELIMINARY WOR
1A-24D-4B-1000	Establish temporary traffic management	1	12-Dec-11	13-Dec-11	223																			
1A-24D-4B-1010	Site dearance	2	13-Dec-11	15-Dec-11	223																			
1A-24D-4B-1020	Investigate services / outfall positions / inlet-outlet p	1	15-Dec-11	16-Dec-11	230																			
<b>TRACK IMPROVEMENT</b>					71	15-Dec-11	06-Apr-12																	▼ 06-Apr-12, TRACK IMPROVEMENT
1A-24D-4B-1030	COMMENCE TRACK WORKS (CH. 830-1080)	0	15-Dec-11		223																			◆ COMMENCE TRACK WORKS (CH. 830-1080)
1A-24D-4B-1060	Remove existing footway - R'about	2	15-Dec-11	19-Dec-11	229																			
1A-24D-4B-1050	Remove existing footway - Outbound	6	15-Dec-11	23-Dec-11	225																			
1A-24D-4B-1040	Remove existing central reserve & lighting columns	8	15-Dec-11	10-Jan-1																				




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


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


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						2008			2009			2010			2011			2012			2013			
			I	N	D	J	F	M	A	J	J	A	S	N	D	J	F	M	A	J	S	O	D	J
	<b>INBOUND</b>		50	11-May-12	19-Jul-12		151																19-Jul-12, INBOUND	
	<b>Demolition works</b>		22	11-May-12	11-Jun-12		138																11-Jun-12, Demolition works	
1A-3B-S16-1210	Remove existing Parapet Barrier	1	11-May-12	11-May-12		138																		
1A-3B-S16-1220	Remove existing Surfacing+Kerbs (Footway/Cyde	1	14-May-12	14-May-12		138																		
1A-3B-S16-1230	Remove existing Verge and Copes (hydrodemolition)	10	15-May-12	28-May-12		138																		
1A-3B-S16-1240	Hydrodemolition of Service Voids in East/West Abut	10	29-May-12	11-Jun-12		138																		
	<b>Construction</b>		28	12-Jun-12	19-Jul-12		151																19-Jul-12, Construction	
	<b>Bridge Deck</b>		27	12-Jun-12	18-Jul-12		151																18-Jul-12, Bridge Deck	
1A-3B-S16-1250	RC Bridge deck	10	12-Jun-12	25-Jun-12		138																		
1A-3B-S16-1260	New RC parapet	10	26-Jun-12	09-Jul-12		138																		
1A-3B-S16-1270	Install Steel Hangers for Tram Ducts	2	10-Jul-12	11-Jul-12		151																		
1A-3B-S16-1290	Install Parapet barriers	2	10-Jul-12	11-Jul-12		151																		
1A-3B-S16-1280	Lay Tram Ducts	3	12-Jul-12	16-Jul-12		151																		
1A-3B-S16-1300	Paint Parapet barriers???	5	12-Jul-12	18-Jul-12		151																		
	<b>Cycleway / Footway (South)</b>		8	10-Jul-12	19-Jul-12		151															19-Jul-12, Cycleway / Footway (South)		
1A-3B-S16-1310	Waterproofing (South side and Trackway)	1	10-Jul-12	10-Jul-12		151																		
1A-3B-S16-1320	Red sand asphalt	1	11-Jul-12	11-Jul-12		151																		
1A-3B-S16-1330	Kerbings	1	12-Jul-12	12-Jul-12		151																		
1A-3B-S16-1350	Infill concrete layer	1	17-Jul-12	17-Jul-12		151																		
1A-3B-S16-1360	Surfacing	1	18-Jul-12	18-Jul-12		151																		
1A-3B-S16-1340	Permanent services (by others?)	5	13-Jul-12	19-Jul-12		151																		
	<b>ROAD- /TRACKWORKS (Ch. 1200 - 1400)</b>		116	27-Feb-12	06-Aug-12		138															06-Aug-12, ROAD- /TRACKWORKS		
	<b>TEMPORARY AND PRELIMINARY WORKS</b>		5	27-Feb-12	02-Mar-12		180															02-Mar-12, TEMPORARY AND PRELIMINARY		
1A-3B-1000	Site clearance	2	27-Feb-12	28-Feb-12		180																		
1A-3B-1010	Investigate services / outfall positions / inlet-outlet po	3	29-Feb-12	02-Mar-12		180																		
	<b>TRACK IMPROVEMENT</b>		52	29-Feb-12	10-May-12		180															10-May-12, TRACK IMPROVEMENT		
1A-3B-1020	COMMENCE TRACK WORKS (CH. 1200-1400)	0	29-Feb-12			181																◆ COMMENCE TRACK WORKS(CH. 1200-1400)		
1A-3B-1030	Remove existing footway/islands etc.	2	29-Feb-12	01-Mar-12		181																		
1A-3B-1040	Plane out existing surfacing over Trams Footprint (	2	05-Mar-12	06-Mar-12		180																		
1A-3B-1050	Carry out inspection and testing of Subgrade	1	07-Mar-12	07-Mar-12		180																		
1A-3B-1060	Sawcut Separation - Tram Ducts Outer Edge	3	07-Mar-12	09-Mar-12		180																		
1A-3B-1070	Break Out / Excavate to formation of Tram Footpri	7	08-Mar-12	16-Mar-12		180																		
1A-3B-1080	Place Sub-base Type 1	7	08-Mar-12	16-Mar-12		182																		
1A-3B-1100	Tram Ducts & Chambers	8	15-Mar-12	26-Mar-12		181																		
1A-3B-1090	Drainage and Outfalls	8	16-Mar-12	27-Mar-12		180																		
1A-3B-1140	Installation of IMU Drains and Cable Ducting - Outb	5	30-Mar-12	05-Apr-12		203																		
1A-3B-1110	Excavate and Cast OLE Foundations (8 nos)	22	19-Mar-12	17-Apr-12		182																		
1A-3B-1120	Lay SL Duct to OLE	8	06-Apr-12	17-Apr-12		182																		
1A-3B-1130	Prepare and check suitability of Formation	15	28-Mar-12	17-Apr-12		180																		
1A-3B-1150	Track Improvement Layer - Outbound	15	30-Mar-12	19-Apr-12		180																		
1A-3B-1160	Installation of IMU Drains and Cable Ducting - Inbo	5	20-Apr-12	26-Apr-12		190																		
1A-3B-1170	Track Improvement Layer - Inbound	15	20-Apr-12	10-May-12		180																		
	<b>TRACK INSTALLATION</b>		74	25-Apr-12	06-Aug-12		138															06-Aug-12, TRACK INSTALLATION		
1A-3B-1180	TRACK WORKS COMPLETE (CH. 1200-1400)	0		06-Aug-12		138																◆ TRACK WORKS COMPLETE (CH. 1		
	<b>OUTBOUND</b>		20	25-Apr-12	22-May-12		178															22-May-12, OUTBOUND		


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						I	N	D	J	F	M	A	J	J	S	O	N	D	J	F	A	J	S
1A-3B-1190	Access Available for Track Laying	0	25-Apr-12		178																◆ Access Available for Track Laying		
1A-3B-1240	Installation of IMU Boxes and Loops	2	30-Apr-12	01-May-12	183																■		
1A-3B-1210	Welding and grinding	5	27-Apr-12	03-May-12	178																■		
1A-3B-1220	Drainage / Rail Connections	5	27-Apr-12	03-May-12	182																■		
1A-3B-1230	Final Rail Alignment - Check and Approve	1	03-May-12	03-May-12	178																■		
1A-23A-TRCK-90-12	Set Up track (sleepers/rail) - 1 x 200m	8	25-Apr-12	04-May-12	178															■			
1A-3B-1250	185mm Concrete Supporting Layer	12	07-May-12	22-May-12	178															■			
<b>INBOUND</b>		20	10-Jul-12	06-Aug-12	138																▼ 06-Aug-12, INBOUND		
1A-3B-1260	Access Available for Track Laying	0	10-Jul-12		138																◆ Access Available for Track Laying		
1A-3B-1310	Installation of IMU Boxes and Loops	2	13-Jul-12	16-Jul-12	143															■			
1A-3B-1280	Welding and grinding	5	12-Jul-12	18-Jul-12	138															■			
1A-3B-1290	Drainage / Rail Connections	5	12-Jul-12	18-Jul-12	142															■			
1A-3B-1300	Final Rail Alignment - Check and Approve	1	18-Jul-12	18-Jul-12	138															■			
1A-23A-TRCK-70-12	Set Up track (sleepers/rail) - 1 x 200m	8	10-Jul-12	19-Jul-12	138															■			
1A-3B-1320	185mm Concrete Supporting Layer	12	20-Jul-12	06-Aug-12	138															■			
<b>TRACKWORK PAVEMENT (BETWEEN AND OUTWITH RAILS)</b>		3	25-May-12	29-May-12	182															▼ 29-May-12, TRACKWORK PAVEMENT (B			
1A-3B-1330	110mm Roadbase	1	25-May-12	25-May-12	182															■			
1A-3B-1340	55mm Basecourse	1	28-May-12	28-May-12	182															■			
1A-3B-1350	35mm Wearing Course	1	29-May-12	29-May-12	182															■			
<b>CENTRAL RESERVE AND BOUNDARY</b>		10	23-May-12	05-Jun-12	182															▼ 05-Jun-12, CENTRAL RESERVE AND BO			
1A-3B-1360	Kerbing to Central Reserve	2	23-May-12	24-May-12	182															■			
1A-3B-1370	Sub-base to Central Reserve	1	25-May-12	25-May-12	182															■			
1A-3B-1380	Central Reserve Finishes	7	28-May-12	05-Jun-12	182														■				
<b>CARRIAGeway / FOOTway PAVEMENT CONSTRUCTION</b>		101	16-Mar-12	03-Aug-12	139															▼ 03-Aug-12, CARRIAGEWAY / FOOT			
1A-3B-1390	COMMENCE ROAD WORKS (CH. 1650-1880)	0	16-Mar-12		212															◆ COMMENCE ROAD WORKS (CH. 1650-1880)			
1A-3B-1400	ROAD WORKS COMPLETE (CH. 1650-1880)	0		03-Aug-12	139															◆ ROAD WORKS COMPLETE (CH. 16			
<b>INBOUND (West of the Bridge)</b>		52	16-Mar-12	28-May-12	188															▼ 28-May-12, INBOUND (West of the Bridge)			
1A-3B-1410	Plane Main Carriageway & Footway	1	16-Mar-12	16-Mar-12	212															■			
1A-3B-1420	Plane/break/excavate to Formation	5	19-Mar-12	23-Mar-12	212															■			
1A-3B-1430	Capping layer (600mm)	5	20-Mar-12	26-Mar-12	216															■			
1A-3B-1440	Drainage and Outfalls	5	21-Mar-12	27-Mar-12	214															■			
1A-3B-1450	Manholes and Catchpits	5	21-Mar-12	27-Mar-12	214															■			
1A-3B-1460	Ducts and Chambers	7	21-Mar-12	29-Mar-12	212															■			
1A-3B-1470	Kerbing	4	11-May-12	16-May-12	182															■			
1A-3B-1480	Safety barrier	4	11-May-12	16-May-12	196															■			
1A-3B-1490	Footpath Works	2	17-May-12	18-May-12	194															■			
<b>SURFACING</b>		4	23-May-12	28-May-12	178															▼ 28-May-12, SURFACING			
1A-3B-1500	220mm Sub-base	1	23-May-12	23-May-12	178															■			
1A-3B-1510	225mm Base	1	24-May-12	24-May-12	178															■			
1A-3B-1520	60mm Binder Course	1	25-May-12	25-May-12	178															■			
1A-3B-1530	35mm Surface Course - Main Carriageway and Bo	1	28-May-12	28-May-12	178															■			
<b>INBOUND (East of the Bridge)</b>		9	10-Jul-12	20-Jul-12	149															▼ 20-Jul-12, INBOUND (East of the Bridg			
1A-3B-1540	Plane Main Carriageway & Footway	1	10-Jul-12	10-Jul-12	139															■			
1A-3B-1550	Plane/break/excavate to Formation	1	11-Jul-12	11-Jul-12	139															■			


Date	Revision	Checked	Approved																			
06-Jul-10	ETN Programme Revision 3A Progress to 9 July 2010	SCS	BSC	Actual Work	C																	




Date	Revision	Checked	Approved		Actual Work	Critical Remaining Work	Summary
06-Jul-10	ETN Programme Revision 3A Progress to 9 July 2010	SCS	BSC		Remaining Work	Milestone	



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