Appendix C

Cost Estimate

Intervent Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	ARUP	ob No. 1207	88-63 Sheet M	No. 1/1 Re	ev.		
Stockabridge Base Case jet m jet m <th jet="" m<="" th=""><th></th><th colspan="3">Member/Location</th><th></th><th></th></th>	<th></th> <th colspan="3">Member/Location</th> <th></th> <th></th>		Member/Location				
Identify Note Margon Ont. Description 10 Abares (6). 10 0.00 (built black). 10.000 0.000 10.000	Stocksbridge Base Case						
Description Litit Botic OU Litit Description 1.1 Site Clearance n ¹ 1.00 1.000 1.00000 1.00000	M	lade by IRW	Date May20	10 Chd.			
Losis Cherrance pri 1.00 10,0000 10	Description	U		05	Unlice	Tatal	
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Drainage m 6 5.00 200 30% 16.000 Chambers no 500.00 20 39% 15.00 Chambers no 500.00 20 39% 15.00 Execution (Buk) m* 10.00 20 25% 2.500 Disposal off site (con-contaminated) m* 15.00 20 25% 6.20 Disposal off site (con-contaminated) m* 15.00 20 25% 6.20 Disposal off site (con-contaminated) m* 2.500 20% 2.5% 6.20 Disposal off site (con-contaminated) m* 2.500.00 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 2.5% 6.20 0.20 0.20 0.20	High security fencing						15,000
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A Railway: Earthworks m ² 25.00 m ² 15.00 Topsoil Strip m ² 15.00 200 25% 2.500 Dispoal off site (constinuited) m ² 15.000 - - Dispoal off site (contaminated) m ² 5.00 12.000 - Consult finds m ² 5.00 - 25% - - Topsoil grad finishing m ² 5.00 - 25% - - - - - 3.57 So Platform Construction per linear metre (including lighting,furniture, n 5.000 - - - - - 3.50 Fatform Construction per linear metre (including lighting,furniture, PA system, CCTV array 5.000.00 - - - - - - 3.50 - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>31,460</td></td<>							31,460
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Execution (Balk) m ² 1000 200 25% 2.500 Disposal off site (contaminated) m ² 6000 -	4.0 Railway Earthworks						
Disposal off site (contaminated) m ² 1500 - - - Disposal off site (contaminated) m ² 600 200 25% 6.250 Topositing and finishing m ² 500 - 25% 6.250 Cound improvement (stone pilmg) m ² 5000 - 25% 6.250 SD Platform Construction per linear metre (including lighting fumiture, m 2,50000 120 30,000 Platform construction per linear metre (including lighting fumiture, m 500,000 - - - Platform construction per linear metre (including lighting fumiture, m 500,000 -	Topsoil Strip						
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Imported fill m ² 25.00 200 25% 6.250 Topsoiling and finishing m ² 50.00 - 25% - 35.5 50 Platform Construction m ² 50.00 120 300,000 - 35.5 50 Platform Construction per linear metre (including lighting,furniture, m 2.500,00 120 300,000 - 330,0 60 Permanent Way m ² 2.100.00 - - 330,0 60 Permanent Way m 500.00 m 500.00 - - - 330,0 60 Permanent Way m 500.00 m 500.00 - <				-		-	
Topsoiling and finishing m ² 5.00 - 25% - Ground improvement (stone piling) m ² 5.000 - 35.7 SD Platform Construction periadime - 35.0 Platform construction per linear metre (including lighting,furniture, m 2.500.00 - - 330.0 6.0 Permanent Way m ² 2.100.00 - - 330.0 Firsk - CWR on concrete sleepers and ballast (non-possession) m 500.00 - - - 330.0 Removal of existing track m 500.00 - <td>• • •</td> <td></td> <td></td> <td></td> <td>25%</td> <td></td> <td></td>	• • •				25%		
Ground improvement (stone piling) m² 50.00 - 35.3 5.0 Platform Construction Plantom construction per linear metre (including lighting, furniture, m² 2,500.00 120 300,000 300,000 Platform construction per linear metre (including lighting, furniture, PA system, CCTV arm² 500.00 6.0 300,000 - 330,0 6.0 Permanent Way m² 2,100.00 - - 330,0 6.0 Permanent Way m² 500.00 m² - - 330,0 6.0 Permanent Way m² 500.00 m² -						-	
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Platform buildings m² 2,100.00 - - 330,0 60 Permanent Way Track - CVR on concrete sleepers and ballast (non-possession) Track in yards and sidings m 500.00 m - - - 330,0 60 Permanent Way Track - CVR on concrete sleepers and ballast (possession) Track in yards and sidings m 500.00 m 800 30% stopped - -							
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Track - CWR on concrete sleepers and ballast (non-possession) m 500.00 30% 520.000 Track - CWR on concrete sleepers and ballast (possession) m 500.00 800 30% 520.000 Removal of existing track m 500.00 800 10% 44.000 Removal of existing track m 500.00 - - Turnout 20 mph No 50.000.00 - - Turnout 30 mph No 100.000.00 - - Turnout 40 mph No 150.000.00 - - Turnout 50 mph No 190.000.00 - - Turnout 75 mph No 20.000.00 10 200.000 7.0 Electrification m 230.00 - - OHLE Lines (non-possession) m 230.00 - - 9.0 Highway Works m² 125.00 - - - Accease Roads m² 15.00 - - - 10 Signalling Works - - - - - 10.0 Signalling Works							
Track - CWR on concrete sleepers and ballast (possession) m 500.00 800 30% 520,000 Track in yards and sidings m 400.00 - - Removal of existing track m 500.000 - - Removal of redundant turnout and plain line No. 35,000.00 - - Turnout 20 mph No 100,000.00 - - - Turnout 20 mph No 150,000.00 - - - Turnout 30 mph No 150,000.00 - - - Turnout 30 mph No 280,000.00 - - - Turnout 30 mph No 280,000.00 - - - Turnout 30 mph No 20,000.00 - - - 7.0 Electrification m 230.00 - - - - OHLE Lines (non-possession) m 230.00 - - - - - OHLE Masts - single track cantilever no 20,000.00 - - - - - -							
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Removal of existing track m 50.00 800 10% 44,000 Removal of redundant turnout and plain line No. 35,000.00 - - Turnout 20 mph No 50,000.00 - - - Turnout 20 mph No 100,000.00 - - - Turnout 20 mph No 190,000.00 - - - Turnout 40 mph No 190,000.00 - - - Turnout 50 mph No 280,000.00 - - - Turnout 75 mph No 20,000.00 - - - 70 Electrification m 230,00 - - - - OHLE Lines (non-possession) m 230,00 - - - - OHLE Masts - single track cantilever no 20,000.00 - - - - 9.0 Highway Works Access Roads m² 125.00 - - - - Staf road strengthening m² 15.00 - - - -				800	30%	520,000	
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Turnout 30 mph No 100,000,00 - - Turnout 40 mph No 150,000,00 - - Turnout 50 mph No 150,000,00 - - Turnout 50 mph No 280,000,00 - - Turnout 57 mph No 280,000,00 - - Turnout 50 mph No 280,000,00 - - 70 Electrification m 230,00 - - OHLE Masts - single track cantilever no 20,000,00 - - 80 Structures Plaform footbridge 500,000,00 - - - 90 Highway Works m² 125,00 3,000 180,000 - - Car park construction m² 15,00 - - - - - Ipopodi film m² 25,00 - -			· ·	-		-	
Turnout 40 mph No 150,000.00 - - Turnout 50 mph No 190,000.00 - - - Turnout 50 mph No 280,000.00 - - - Turnout 75 mph No 200,000.00 - - - Turnout 50 mph No 20,000.00 - - - 7.0 Electrification m 230.00 - - - OHLE Lines (non-possession) m 230,000.00 - - - OHLE Masts - single track cantilever no 20,000.00 - - - 8.0 Structures Platform footbridge 500,000.00 - - - - 9.0 Highway Works Access Roads m² 125.00 -	*			-		-	
Turnout 75 mph No 280,000.00 - - - Tamping shift No 20,000.00 10 200,000 764,0 70 Electrification OHLE Lines (non-possession) m 230,000 - - - OHLE Masts - single track cantilever no 20,000.00 - - - 8.0 Structures - - - - - - 9.0 Highway Works - - - - - - 9.0 Highway Works - - - - - - 9.0 Highway Works - - - - - - - 9.0 Highway Works -	Turnout 40 mph	No	150,000.00	-		-	
Tamping shift No 20,000 10 200,000 764,0 7.0 Electrification m 230,00 - - - OHLE Lines (non-possession) m 230,000 - - - OHLE Lines (non-possession) m 212,00 - - - - OHLE Lines (non-possession) m ² 500,000 - - - - OBSIG m ³ 15,00 - - - - - - <td>Turnout 50 mph</td> <td>No</td> <td>190,000.00</td> <td>-</td> <td></td> <td>-</td> <td></td>	Turnout 50 mph	No	190,000.00	-		-	
7.0 Electrification m 230.00 OHLE Lines (non-possession) m 230.00 OHLE Masts - single track cantilever no 20,000.00 8.0 Structures 500,000.00 - Platform footbridge 500,000.00 - 9.0 Highway Works m² 125.00 Access Roads m² 125.00 Side road strengthening sum - Car park construction m² 60.00 Excavate m³ 15.00 Disposal m³ 25.00 Imported fill m³ 25.00 Hoo Signalling Works No. 127,000.00 New signalling per seu No. 127,000.00 Modify No. 18,500.00 No. 127,000.00 - No. 127,000.00 - No. 127,000.00 - Resite deconstruct new relay room No. 18,500.00 No. 127,000.00 - - Resite Mercury TAN equipment No - - 10.0 Signalling Vorks -	Turnout 75 mph	No	280,000.00	-		-	
M 230.00 - - OHLE Lines (non-possession) no 20,000.00 - - OHLE Masts - single track cantilever no 20,000.00 - - 8.0 Structures Platform footbridge 500,000.00 - - - 9.0 Highway Works m² 125.00 750 93,750 - Side road strengthening sum - - - - Car park construction m² 60.00 3,000 180,000 - - Disposal m² 15.00 - - - - Imported fill m² 25.00 - - - 273,7 10.0 Signalling Works No. 127,000.00 - - - - - New isignalling per seu No. 127,000.00 - - - - - - - 18,500 - - - - - - - - - - - - - - - - - <t< td=""><td>Tamping shift</td><td>No</td><td>20,000.00</td><td>10</td><td></td><td>200,000</td><td>764,000</td></t<>	Tamping shift	No	20,000.00	10		200,000	764,000
OHLE Masts - single track cantilever no 20,000.00 - - 8.0 Structures Platform footbridge 500,000.00 - - - 9.0 Highway Works m² 125.00 - - - 9.0 Highway Works m² 125.00 - - - 9.0 Highway Works m² 125.00 - - - 2.0 park construction m² 15.00 - - - Disposal m² 15.00 - - - - Inported fill m² 25.00 -	7.0 Electrification		220.00				
8.0 Structures 500,000.00 - - - 9.0 Highway Works m² 125.00 750 93,750 - 9.0 Highway Works sum - - - - - 9.0 Highway Works sum - - - - - 9.0 Highway Works sum - - - - - 9.0 Highway Works sum -				-		-	
Platform footbridge 500,000.00 - - - 9.0 Highway Works Access Roads m² 125.00 750 93,750 - Access Roads m² 125.00 - - - - Car park construction m² 60.00 3,000 180,000 - - - Disposal m² 15.00 -		no	20,000.00				-
Access Roads m² 125.00 750 93,750 Side road strengthening sum - - - Car park construction m² 60.00 3,000 180,000 Excavate m² 15.00 - - - Disposal m³ 15.00 - - - Imported fill m³ 25.00 - - - Topsoilling m³ 25.00 - - - No. 127,000.00 - - - - Modify No. 18,500.00 1 18,500 - - New signalling per seu No. 127,000.00 - - - - Modify No. 18,500.00 - - - - - Demolish and reconstruct new relay room No. -<			500,000.00			-	-
Side road strengthening sum - 180,000 Car park construction m² 60.00 3,000 180,000 Excavate m² 15.00 - - Disposal m² 25.00 - - Imported fill m² 25.00 - - Topsoilling m² 25.00 - - 10.0 Signalling Works - - - New signalling per seu No. 127,00.00 1 18,500 New interlocking No. 18,500.00 - - 11.0 Communications No. - - 18,500 Resite CSR and NRN base stations No - - - 12.0 Services sum 200,000.00 1 200,000 200,00	9.0 Highway Works						
Car park construction m ² 60.00 3,000 180,000 Excavate m ³ 15.00 - - Disposal m ³ 15.00 - - Imported fill m ³ 25.00 - - Topsoilling m ³ 25.00 - - New signalling Vorks no. 127,00.00 - - New signalling per seu No. 127,00.00 1 18,500 New signalling ner seu No. 127,00.00 - - Modify No. 18,500.00 - - New Interlocking No. 18,500.00 - - ILO Communications No. - - - Resite CSR and NRN base stations No - - - Services sum 200,000.00 1 200,000 200,00	Access Roads Side road strengthening		125.00	750		93,750	
Excavate m³ 15.00 - - Disposal m³ 15.00 - - Imported fill m³ 25.00 - - Topsoilling m³ 25.00 - - 10.0 Signalling Works m³ 25.00 - - New signalling per seu No. 127,000.00 - - New interlocking No. 18,500.00 1 18,500 Demolish and reconstruct new relay room No. - - - 11.0 Communications No - - - - Resite CSR and NRN base stations No - - - - 12.0 Services sum 200,000.00 1 200,000 200,00			60.00	- 3 000		180.000	
Disposal m³ 15.00 - - Imported fill m³ 25.00 - - Topsoilling m³ 25.00 - - 10.0 Signalling Works m³ 25.00 - - New signalling per seu No. 127,000.00 1 18,500 Modify No. 18,500.00 - - Demolish and reconstruct new relay room No. 18,500.00 - - 11.0 Communications No. - - - Resite CSR and NRN base stations No - - - 12.0 Services sum 200,000.00 1 200,000 200,0	1			-		-	
Topsoilling m³ 25.00 - 273,7 10.0 Signalling Works New signalling per seu No. 127,00.00 - - 273,7 New signalling per seu No. 127,00.00 - - - - - 273,7 New signalling per seu No. 127,00.00 -<	Disposal			-		-	
10.0 Signalling Works No. 127,000.00 - - Modify No. 127,000.00 1 18,500 New Interlocking No. 1 18,500 - Demolish and reconstruct new relay room No. - - - 11.0 Communications No - - 18,500 Resite CSR and NRN base stations No - - 12.0 Services - - - Services Diversions sum 200,000.00 1 200,000				-		-	272 750
New signalling per seu No. 127,000.00 - - Modify No. 18,500.00 1 18,500 New Interlocking No. 18,500.00 - - Demolish and reconstruct new relay room No. - - - 11.0 Communications Resite CSR and NRN base stations No - - - Resite Mercury TAN equipment No - - - 12.0 Services sum 200,000.00 1 200,000 200,00	Topsonning	111	23.00			-	275,750
Modify New Interlocking No. 18,500.00 1 18,500 Demolish and reconstruct new relay room No. - - - 11.0 Communications Resite CSR and NRN base stations Resite Mercury TAN equipment No - - - 12.0 Services Services Diversions sum 200,000.00 1 200,000 200,00			107 000 00				
New Interlocking No. - - Demolish and reconstruct new relay room No. - - 11.0 Communications Resite CSR and NRN base stations No - Resite Mercury TAN equipment No - - 12.0 Services sum 200,000.00 1 200,000				- 1		- 18 500	
11.0 Communications No - - Resite CSR and NRN base stations No - - Resite Mercury TAN equipment No - - 12.0 Services sum 200,000.00 1 200,000	New Interlocking	No.	10,000.00				
Resite CSR and NRN base stations No	Demolish and reconstruct new relay room	No.		-	I	-	18,500
Resite Mercury TAN equipment No	11.0 Communications		[]				
12.0 Services sum 200,000.00 1 200,000 200,000				-		-	
Services Diversions sum 200,000.00 1 200,00 200,0	Kesite Mercury I AN equipment	No				-	-
		sum	200 000 00	1		200.000	200,000
13.0 Net Construction Costs 1,678,4		Journ	200,000.00		·	200,000	,
	13.0 Net Construction Costs						1,678,460

ARUP	Job No. 120788-63 Sheet No. 1/1 Rev. Member/Location						
Stocksbridge Base Case	Drg. Ref. Made by IRW Date May2			0 Chd.			
Description		Unit	Rates (£) Basic	Qty	Uplift	Total	
14.0 Administration Costs Preliminaries & General Items Design Testing & Commissioning						319,615 151,298 64,848	
Consultancy Charges Training Spares Other						28,899 555 11,502	576,717
15.0 Ancillary Items Environmental Mitigation Landscaping costs Abandonment of Roads and Railway routes		sum sum	2% -			33,569	
Land and Property Acquisition Costs Archaelogical investigation		sum sum	-			-	33,569
16.0 Possessions Supplying protection staff & coordination <30 hours possession >30 hours possession		No. No.	2,500 6,000	10		25,000	25,000
17.0 Total Construction Costs						-	2,313,746
18.0 Network Rail Costs Network Rail Project Management Possession / Isolation Management RIMINI Costs TOC Compensation/Schedule 4 Charges			8% 1% 1%			185,100 23,137 23,137	
TWA Charges Site Supervision			1%			23,137	254,512
19.0 Risk Allowance (50th Percentile Range) 20.0 Total Cost including risk							- 2,568,259
20.0 Fotal Cost including risk 21.0 HM Treasury "Green Book" optimism bias fa	actor		66%				1,695,051
22.0 Escalation costs			2.7%				69,343
23.0 Estimated Total Cost							4,332,652

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