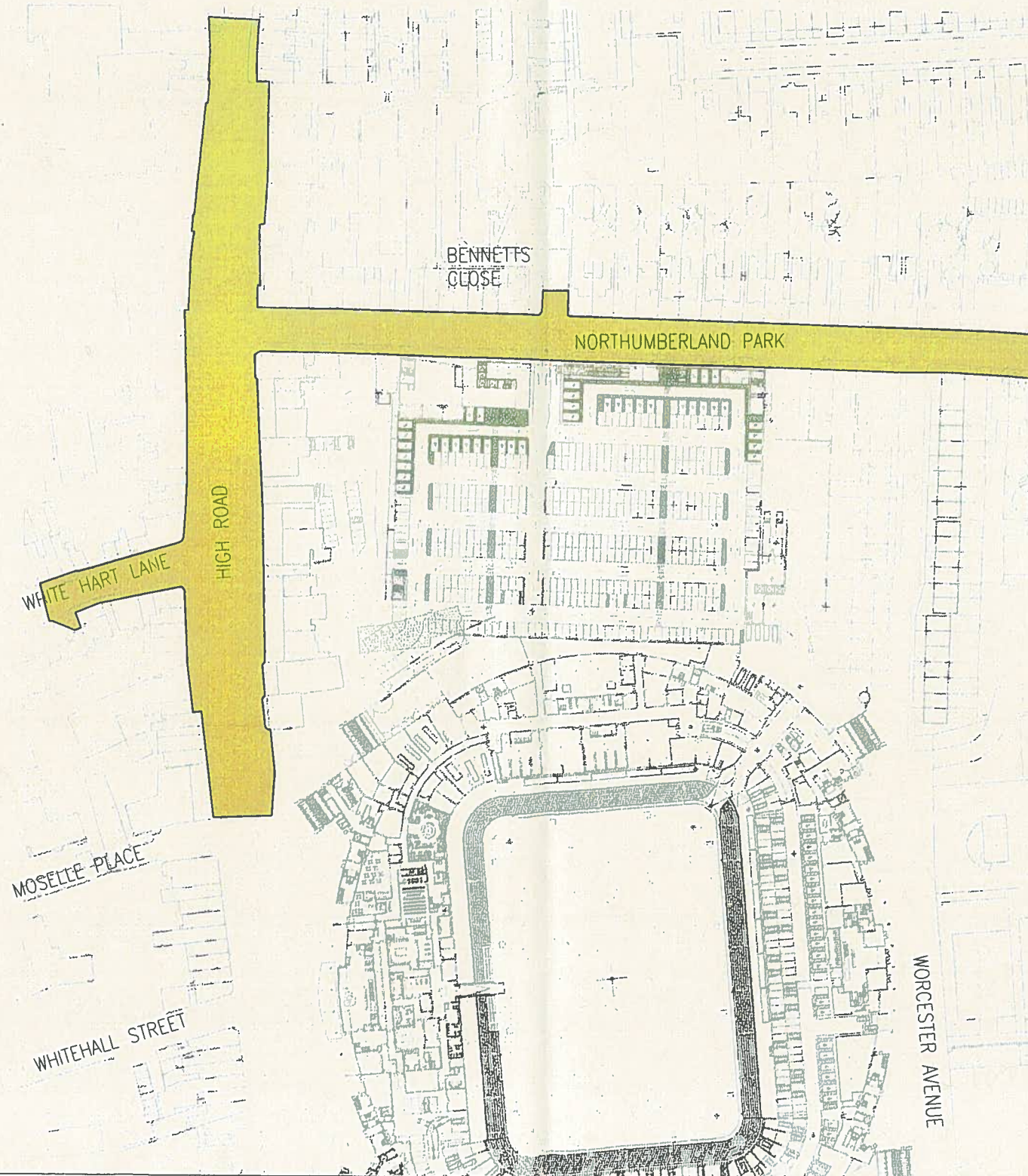



NOTES:



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Rev	Description	Checked	Date
Project: Northumberland Development Project			
Title: Northern Development Highway Works Phase 1			
Author:			
Designed: PM	Drawn: PM	Checked:	
Scale: 1:1000@A1	Date Drawing Created: 21-October-2010		
Fig. No:	Rev:		
1.1.A			
FRONTLINE SERVICES HIGHWAYS ASSET GROUP			
3rd Floor South, River Park House, 221 High Road, West Green, London N22 8YG 020 8448 9200 Fax 020 8448 1251 Head of Asset Management Frontline Services: Paul G. Jay			
			

Project Title: NORTHUMBERLAND DEVELOPMENT - COPY FOR LEGAL (Without Qties & rates)

Proposed Works: PHASE 1 - COST BASED ON DRAWINGS BHC- SERIES RECEIVED ON 01/06/10

CONFIRM Job Number: Not applicable

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	1,338.12
0122102 A	Re-use information board (include for fixing a pair) as Appendix 1/21	NO	286.74
0123104 A	Provision of temporary signals for duration of works or section of works for alternate shuttle working two-way.	NO	286.74
0123105 A	As item 0123104 but shuttle working three way	NO	630.81
0123108 A	Maintenance of temporary traffic signals - two way	DAY	716.85
0123109 A	Maintenance of temporary traffic signals - three way	DAY	2,294.00
0123111 A	Removal of temporary traffic signals. - two way	NO	47.78
0123112 A	Removal of temporary traffic signals. - three way	NO	100.35
0123114 A	Provide barrel and concrete to accommodate existing traffic signal post, move as required and later remove.	NO	908.00
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	3,869.50
0206108 C	Take up or down and remove to store off site granite sett paving (dispose)	M2	526.06
0206110 C	Take up or down and remove to store off site block paving (dispose)	M2	231.31
0208102 C	Take up or down and remove to store off site precast concrete kerbing (dispose)	M	453.79
0208104 C	Take up or down and remove to store off site granite kerbing (dispose)	M	1,646.88
0210113 B	Take up or down and set aside for re-use pedestrian barrier rail	M	283.51
0210114 A	Take up or down and remove to store off site pedestrian barrier rail (dispose)	M	51.04
0213104 B	Take up or down and remove to store off site traffic bollard cast iron (dispose)	NO	636.48
0213109 A	Take up or down and set aside for re-use traffic sign up to 0.5m ²	NO	19.82
0213111 A	Take up or down and set aside for re-use traffic sign including posts up to 0.5m ² .	NO	40.72
0213112 B	Take up or down and remove to store off site traffic sign including posts up to 0.5m ² (dispose)	NO	398.24
SECTION 300: FENCING			
0317114 B	Doric cast iron bollard in black gloss finish with top painted in white gloss finish	NO	3,034.60
SECTION 400: GUARDRAILS, ETC.			
0445101 C	Stratford 75 v2 full height visirail panel 1160mm high	M	17,417.60
0445102 B	Trafford intermediate post only 1160mm high	NO	4,859.20
0445103 C	Trafford end post only 1160mm high	NO	9,528.00
SECTION 500: DRAINAGE & SERVICE DUCTS			
0502103 C	150mm dia. Vitrified clay pipes standard strength in sewer or drain on bed type A in trench depth to invert not exceeding 2m average depth to invert 1m	M	4,838.40
0518103 B	Connection of 150mm dia. Pipe to existing 225mm dia. Drain, sewer or piped culvert, depth to invert not exceeding 2m average depth to invert 1m	NO	1,082.90
0525101 B	Trapped street gully specified design group type 1 precast (depth 1.5m) with Grade A Class 1 (Class D400) grating & frame	NO	4,698.33
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	34,059.96
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	10,909.87

Project Title: NORTHUMBERLAND DEVELOPMENT - COPY FOR LEGAL (Without Qties & rates)

Proposed Works: PHASE 1 - COST BASED ON DRAWINGS BHC- SERIES RECEIVED ON 01/06/10

CONFIRM Job Number: Not applicable

SOR Item	Description	Units	Amount
0609103 C	Disposal of unacceptable material class U1	M3	57,491.28
SECTION 700: PAVEMENTS			
0701101 C	Granular type 1 sub-base in carriageway placed and compacted in layers not exceeding 110mm	M3	42,316.92
0702109 C	AC dense base 40/60 - 200mm thick in carriageway	M2	94,444.10
0705103 C	AC 20 bin 100/150 - 60mm thick in carriageway	M2	98,402.26
0706103 C	AC 14 close surf 100/150 - 40mm thick in carriageway	M2	96,417.42
0708701 C	As item 0708301 but red aggregate	M2	3,160.20
0709201 D	As item 0708301 but green or buff aggregate	M2	35,829.00
0710101 D	Bituminous spray tack coat to cl. 920	M2	1,450.46
0712102 A	AC 20 reg	TO	683.04
0712404 A	Wet lean concrete ST4 regulating course	M3	585.19
0714105 D	As item 0714101 but not exceeding 50mm depth	M2	9,462.88
0714109 D	As item 0714101 but not exceeding 75mm depth	M2	10,911.28
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1102107 C	Granite kerbing to 1100-1 laid straight or curved exceeding 12m radius	M	17,446.00
1102108 B	Granite kerbing to 1100-1 laid to curves not exceeding 12m radius	M	4,498.25
1108113 C	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	6,190.56
1108104	Yorkstone paving flags in footway on granular type 1 sub base 100mm thick	M2	165,288.00
11-A	Supply and lay 80mm, brindle / redish colour, on 30mm sharp sand with fine sand	M	1,068.20
SECTION 1200: TRAFFIC SIGNS AND STREET FURNITURE			
1241109 D	As item 1241105 but 100mm wide	M	923.04
1241117 D	As item 1241105 but 200mm wide	M	109.20
1241121 C	As item 1241105 but 250mm wide	M	122.30
1241137 B	Intermittent lines in white thermoplastic screed with applied ballotini 100mm wide with 600mm line and 300mm gap	M	10.90
1241153 D	As item 1241137 (100mm wide) but with 4000mm line and 2000mm gap	M	408.11
1241161 D	As item 1241137 but with 100mm wide line and 150-615mm gap (markingAs road studs)	M	1,254.42
1241169 B	As item 1241165 but with 1000mm line and 1000mm gap	M	17.66
1241189 B	Intermittent line in white thermoplastic screed with applied ballotini 200mm wide with 600mm line and 300mm gap	M	34.27
1241197 B	Intermittent line in white thermoplastic screed with applied ballotini 300mm wide with 1000mm line and 1000mm gap	M	25.92
1241205 C	Ancillary line in white thermoplastic screed with applied ballotini 100mm wide in hatched areas or in zigzag	M	46.40
1241209 B	Ancillary line in white thermoplastic screed with applied ballotini 150mm wide in hatched areas	M	38.39
1241225 B	Triangle in white thermoplastic screed 750mm width height not exceeding 1850mm to TRSGD diag. Nos. 1060, 1061.1, 1061 or 1061.1	NO	172.50
1241246 B	Arrow in white thermoplastic screed with applied ballotini 4000mm long double headed to TRSGD No. 1038	NO	284.05

Project Title: NORTHUMBERLAND DEVELOPMENT - COPY FOR LEGAL (Without Qties & rates)

Proposed Works: PHASE 1 - COST BASED ON DRAWINGS BHC- SERIES RECEIVED ON 01/06/10

CONFIRM Job Number: Not applicable

SOR Item	Description	Units	Amount
1241265 A	Arrow in white thermoplastic screed with applied ballotini 4500mm long curved to TRSGD No. 1014	NO	18.40
1241309 A	Cycle symbol in white thermoplastic screed with applied ballotini 2750mm x 1700mm to TRSGD dia. No. 1057	NO	172.50
1251137 C	As item 1251133 but 100mm wide with 1000mm line and 1000mm gap	M	45.47
1251149 D	Area of hatched box marking in yellow thermoplastic screed with applied ballotini to TRSGD dia. Nos. 1043 or 1044; ancillary lines 150mm wide, boundary lines 200mm wide	M2	381.80
			754,905.98

Extra Over - Traffic Management

0123101 A	Traffic Safety and Management on Trunk, Priority (Red) Route, Designated Route or Class A Road.	5%	37745.30
0126101	Extra over for works carried out outside normal working hours (0730 hours – 1800 hours) on weekdays and Saturdays	30%	£76,894.99

869,546.27

1d

A	Street lighting as provided by Street Lighting Group	10,200.00
B	Safety Audit Stages 2 & 3, TMO'S, Notices, etc.	8,000.00
ADD THE FOLLOWING PROVISIONAL SUMS FOR THE TRAFFIC SIGNALS		
C	Traffic signals modification - Hgh Road / White Hart Lane	
	Draw pits	
	Ducting in c/way	
	Reinstatement of pavement	
	Modification to existing Equipment, design checking and safety audits by DTO - ***	34,755.00
D	Traffic signals modification - Hgh Road / Northumberland Park	
	Draw pits	
	Ducting in c/way	
	Reinstatement of pavement	
	Ducting in footways	
	Modification to existing Equipment, design checking and safety audits by DTO - ***	43,080.00
E	New Traffic signals - Northumberland Park / Bennetts Close	
	Draw pits	
	Ducting in c/way	
	Reinstatement of pavement	
	Ducting in footways	
	Design checking and safety audits by DTO	
	New Traffic Controller by DTO, including staff costs, provision of stats, commuted maintenance, etc.	110,575.00
F	Sub-total	1,076,156.27
G	Add 10% contingencies	107,615.63
H	Sub-total	1,183,771.89
I	Add 15% fees	177,565.78
J	Sub-total	1,361,337.68
K	OVERALL TOTAL, SAY	1,361,337.68

*** SHOULD THE EXISTING CONTROLLERS BE REPLACED, ALLOW £65,000.00 FOR EACH NEW ONE INSTEAD OF £25,000.00 (it is subject to DTO's requirements)



NOTES:

639

Offices

640 to 656

Government
Offices

636
638

1

1a

3

3a

5

LANSDOWNE ROAD

634

PH

St Mary's
Church

Surgery

Pembury House
Centre

St Mary's

Vicarage

1
to
10

Rev	Description	Checked	Date
Project: NORTHUMBERLAND DEVELOPMENT PROJECT			
Title: LANSDOWNE ROAD OFF-SITE HIGHWAYS WORKS			
Path:			
Designed: PM	Drawn: PM	Checked:	
Scale: 1:500@A1	Date Drawing Created: 27-OCTOBER-2010		
Fig. No: 1.1.A	Rev:		
FRONTLINE SERVICES HIGHWAYS ASSET GROUP			
<small>1st Floor South, 14-16 Park House, 775 High Road, Lutterworth, Leicestershire LE17 4DQ Tel: 01533 4488 000 Fax: 01533 4488 151 Internet Address: Director Frontline Services - Front Copy</small>			

TENTH SCHEDULE

Highways Works

PART 3 – Stadium Development and Southern Development

1. The Developer covenants to pay to the Council prior to Commencement of the Stadium Development:
 - 1.1. the sum of **£1,160,000** in connection with the carrying out, co-ordination, management and supervision of the Pedestrian Routes S278 Works set out in Annexure 2 to this Part 3 of the Tenth Schedule
 - 1.2. the sum of **£161,000** in connection with the carrying out, co-ordination, management and supervision of the Cycling Improvements set out in Annexure 4 to this Part 3 of the Tenth Schedule
 - 1.3. the sum of **£800,000** in connection with the carrying out, co-ordination, management and supervision of the White Hart Lane Station S278 Works set out in Annexure 5 to this Part 3 of the Tenth Schedule
 - 1.4. the sum of **£120,000** in connection with the carrying out, co-ordination management and supervision of the Haringey Cycleway Improvements set out in Annexure 6 to this Part 3 of the Tenth Schedule
 - 1.5. the sum of **£20,000** in connection with the carrying out, co-ordination management and supervision of the Bus Stop Accessibility Measures set out in Annexure 7 to this Part 3 of the Tenth Schedule

and it is agreed that the liability of the Developer and/or the Owner will not exceed the sums stated herein (subject to Clause 18 of this Deed - Indexation).

2. The Developer and Council covenant as follows:
 - 2.1. Upon receipt of the notice of Letting of the Stadium Contract (in accordance with paragraph 3 of this Part 3 of the Tenth Schedule) the Council will confirm in writing the Council's reasonable costs of progressing the detailed design of the Signage Improvements shown in Annexure 3 of this Part 3 of the Tenth Schedule which for the avoidance of doubt shall not exceed £100,000

- 2.2. Subject to the Council complying with its obligations under paragraph 2.1 of this Part 3 of the Tenth Schedule the Developer shall prior to Commencement of the Stadium Development pay to the Council the reasonable costs of progressing the detailed design of the Signage Improvements as notified to it in accordance with paragraph 2.1
- 2.3. Within two years of the Commencement of the Stadium Development the Developer shall pay to the Council the sum of **£300,000** (less any amount paid in accordance with paragraph 2.2) in connection with the carrying out, co-ordination, management and supervision of the Signage Improvements as set out in Annexure 3 to this Part 3 of the Tenth Schedule and the liability of the Developer in respect of the Signage Improvements shall not exceed the total of £300,000 (subject to Clause 18 of this Deed – Indexation)
3. The Developer will give notice in writing to the Council upon the Letting of the Stadium Contract.
4. Upon the Letting of the Stadium Contract the Developer shall pay to the Council :
 - 4.1. the sum of **£140,000** in respect of the Council's reasonable costs of progressing the detailed design of the Stadium Development Highways Works;
 - 4.2. the sum of **£37,000** in respect of the Council's reasonable costs of progressing the detailed design of the Bus Priority and Diversion Measures; and
 - 4.3. the sum of **£20,000** in respect of the Council's reasonable costs of progressing the detailed design of the Northumberland Park S278 Works;

with these sums being 10% of the provisional estimate of the cost of the respective works.

5. Subject to the Developer complying with the obligations in paragraph 4 upon receipt by the Council of the notice under paragraph 3 the Council shall prepare and submit to the Developer for approval :
 - 5.1. a detailed design and specification for :
 - 5.1.1. the Stadium Highways Works ("the Stadium Development Highways Works Detailed Design");
 - 5.1.2. the Bus Priority and Diversion Measures ("the Bus Priority Detailed Design"); and
 - 5.1.3. the Northumberland Park S278 Works ("the Northumberland Park Detailed Design")

5.2. an open book detailed cost estimate for:

5.2.1. the Stadium Highways Works ("the Stadium Development Highways Works Estimate") (it being acknowledged that the estimate for the cost of these works at the date of this Deed is £1,400,000 (inclusive of the design fees payable under paragraph 4.1);

5.2.2. the Bus Priority and Design Measures ("the Bus Priority Estimate") (it being acknowledged that the estimate of the cost of these works at the date of this Deed is £370,000 (inclusive of the design fees payable under paragraph 4.2); and

5.2.3. the Northumberland Park S278 Works ("the Northumberland Park Estimate") (it being acknowledged that the estimate of the cost of these works at the date of this Deed is £200,000 inclusive of any design fees payable under paragraph 4.3)

6. The Developer shall have 28 days to approve the Stadium Development Highways Works Design, the Stadium Development Highways Works Estimate, the Bus Priority Detailed Design, the Bus Priority Estimate, the Northumberland Park Detailed Design and the Northumberland Park Estimate provided pursuant to paragraph 4 and shall be entitled to refer at its cost any dispute to arbitration in accordance with paragraph 9 of Part 1 of this Schedule save where the dispute relates to the Council's highway design and quality standards (including but not limited to the Manual for Streets and the Design Manual for Roads and Bridges).

7. Any arbitration proceedings in accordance with paragraph 6 shall be determined within 3 months of receipt by the Developer of the item provided by the Council in accordance with paragraph 4, failing which the Council's estimate provided pursuant to paragraph 5.2 above shall become binding.

8. The Developer shall pay to the Council upon the later of 28 days following receipt by the Developer of the items listed in paragraph 5 or the conclusion of any arbitration proceedings in accordance with paragraph 6

8.1. the Stadium Development Highways Works Estimate (as approved under paragraph 6 or confirmed by arbitration proceedings) less the design fees paid under paragraph 4.1

8.2. the Bus Priority Estimate (as approved under paragraph 6 or confirmed by arbitration proceedings) less the design fees paid under paragraph 4.2

8.3. the Northumberland Park Estimate (as approved under paragraph 6 or confirmed by arbitration proceedings) up to a maximum of £200,000 less the design fees paid under paragraph 4.3

9. As soon as practicable following the service of the notice under paragraph 3 above the Developer will provide the Council with its construction timetable for the Stadium Development and the Council and the Developer will thereafter use all reasonable endeavours to agree:

9.1. a mutually acceptable date for the commencement of the Bus Priority and Diversion Measures, the Bus Stop Accessibility Measures, the Cycling Improvements, the Northumberland Park S278 Works, the Pedestrian Routes S278 Works, the Signage Improvements, the Stadium Development Highways Works, the Haringey Superhighway Improvements, and the White Hart Lane S278 Works ("the Agreed Start Date") and

9.2. a preliminary timetable for the progression of each of the Bus Priority and Diversion Measures, the Bus Stop Accessibility Measures, the Cycling Improvements, the Northumberland Park S278 Works the Pedestrian Routes S278 Works, the Signage Improvements, the Stadium Development Highways Works, the Haringey Superhighway Improvements, and the White Hart Lane S278 Works ("the Agreed Timetable").

Southern Development Highways Works

10. The Developer will give the Council notice in writing upon the letting of a contract for the construction of either the Residential Development or the Hotel Development whichever is earlier.

11. If, at the time notice is given under paragraph 10, a stopping up order has been made for Worcester Avenue and is not subject to public inquiry then the Worcester Avenue S278 Works will be excluded from the Southern Development Highways Works and any obligations on any party under this Deed in respect of those works will cease.

12. Upon the letting of a contract for the construction of either the Residential Development or Hotel Development (whichever is earlier) the Developer shall pay to the Council the sum of **£158,790.00** in respect of the Council's reasonable costs of progressing the detailed design of the Southern Development Highways Works (including the Worcester Avenue S278 Works if not excluded under paragraph 10).

13. Upon receipt by the Council of the notice pursuant to paragraph 9 the Council shall prepare and submit to the Developer :
 - 13.1. a detailed design and specification for the Southern Development Highways Works ("the Southern Development Highways Works Detailed Design"); and
 - 13.2. an open book detailed cost estimate for the Southern Development Highways Works ("the Southern Development Highways Works Estimate") (it being acknowledged that the estimated cost of these works at the Date of this Deed is £1,587,900.00 (inclusive of the design fees payable under paragraph 12) and includes the Worcester Avenue S278 Works)
14. The Developer shall have 28 days to approve the Southern Development Highways Works Detailed Design and Southern Development Highways Works Estimate and shall be entitled to refer at its cost any dispute to arbitration in accordance with paragraph 9 of Part 1 of this Schedule save where the dispute relates to the Council's highway design and quality standards (including but not limited to the Manual for Streets and the Design Manual for Roads and Bridges).
15. Any arbitration proceedings in accordance with paragraph 14 shall be determined within 3 months of receipt by the Developer of the Southern Development Highways Works Detailed Design and Southern Development Highways Works Estimate failing which the Council's estimate provided pursuant to paragraph 13.2 above shall become binding.
16. The Developer covenants to pay the Council the Southern Development Highways Works Estimate (as approved under paragraph 14 or confirmed by arbitration proceedings) less any design fees paid under paragraph 12 of this Schedule within 28 days of receipt of the Southern Development Highways Works Detailed Design and Southern Development Highways Works Estimate or if later upon the determination of the arbitration proceedings.
17. As soon as practicable following the service of the notice under paragraph 10 above the Developer will provide the Council with its construction timetable for the Southern Development and the Council and the Developer will thereafter use all reasonable endeavours to agree:
 - 17.1. a mutually acceptable date for the commencement of the Southern Development Highways Works ("the Agreed Start Date") and
 - 17.2. a preliminary timetable for the progression of the Southern Development Highways Works ("the Agreed Timetable")

18. For the avoidance of doubt, the contributions referred to in sub-paragraphs 1.1 to 1.5 and paragraph 2 of Part 3 of this Tenth Schedule are fixed sums and shall not be subject to scrutiny or arbitration notwithstanding anything in this Deed.
19. Where the Developer and/or Owner request scrutiny or arbitration in respect of any of the other costs for Highway Works under this Schedule, the Council will not be obliged to commence any of the works to which that scrutiny or arbitration relate until the scrutiny or arbitration procedure has been finally resolved and confirmed as such in writing by the parties and/or arbitrator as the case may be or the arbitration proceedings are determined by the effluxion of time as provided for in paragraphs 7 and 15 and the appropriate Highways Works payments have been made by the Developer and/or the Owner.

TENTH SCHEDULE

Highways Works

PART 3 ANNEXURE – Lists of Drawings, Proposals of Works & Estimates

1. Stadium Development Highways Works

- 1.1. Drawing No. 1.1.A dated 21 October 2010
- 1.2. Detailed Cost Estimate for Phase 2 Costs based on BHC's Drawings, Series received on 01/06/10

2. Pedestrian Routes S278 Works

- 2.1. Drawing No. 2.2.B-CR-06-Northumberland Park June 2010
- 2.2. Detailed Cost Estimate dated 24 August 2010 Northumberland Park (Worcester Avenue-Blaydon Walk) – Footway works, drop kerbs with tactile paving
- 2.3. Drawing No. 2.2.B-CR-02-Brantwood Road June 2010
- 2.4. Detailed Cost Estimate dated 24 August 2010 Brantwood Road – Speed tables, footway works, drop kerbs with tactile paving
- 2.5. Drawing No. 2.2.B-CR-03-West Road June 2010
- 2.6. Detailed Cost Estimate dated 24 August 2010 West Road – Footway works, drop kerbs with tactile paving
- 2.7. Drawing 2.2.B-CR-04-Blaydon Walk June 2010
- 2.8. Detailed Cost Estimate dated 24 August 2010 Blaydon Walk – Willoughby Park Road – Footway works, drop kerbs with tactile paving
- 2.9. Drawing 2.2.B-CR-01-Pretoria Road June 2010
- 2.10. Detailed Cost Estimate dated 24 August 2010 Pretoria Road – Footway works, drop kerbs with tactile paving
- 2.11. Drawing 2.2.B-CR-05-Tariff Road June 2010

- 2.12. Detailed Cost Estimate dated 24 August 2010 Tarrif Road – Footway
- 2.13. Drawing 2.2.B-SR-02-Chesnuds-01
- 2.14. Drawing 2.2.B-SR-02-Chesnuds-02
- 2.15. Detailed Cost Estimate dated 13 September 2010 – Chesnuts Road – Proposed Footway improvements, Entry treatments, Raised table
- 2.16. Drawing 2.1.B-SR-01-Park Lane June 2010
- 2.17. Detailed Cost Estimate dated 24 August 2010 – Park Lane – Footway works, Entry treatments, drop kerbs with tactile paving
- 3. **Signage Improvements**
 - 3.1. Drawing No. 3.1.A dated 27 October 2010 Signage Improvements Area Base Plan
- 4. **Cycling Improvements**
 - 4.1. Drawing 4.1.A dated 27 October 2010 Cycling Improvements
- 5. **White Hart Lane Station S278 Works**
 - 5.1. Drawing 5.1.A dated 27 October 2010 White Hart Lane Station S278 Works Area Base Plan
- 6. **Haringey Cycleway Improvements**
 - 6.1. Drawing 6.1.A dated 27 October 2010 Superhighway Improvements
- 7. **Bus Stop Accessibility Measures**
 - 7.1. Drawing HI/SS/BSA/White Hart – 12 dated November 2010
 - 7.2. Drawing White Hart Lane BSA dated November 2010
- 8. **Bus Stop Priority and Diversion Measures**
 - 8.1. Drawing 8.1.A dated August 2010 Bus Stop Priority – Proposed Bus Stop Extension, Footway Cutback and Resurfacing
 - 8.2. Drawing 8.2.B Bus Stop Priority Measures – Northumberland Park and Lansdowne Road 1.2m footway parking and bus stop reconstruction

8.3. Detailed Cost Estimate for Drawing 8.1.A Bus Stop Priority dated 17/08/10

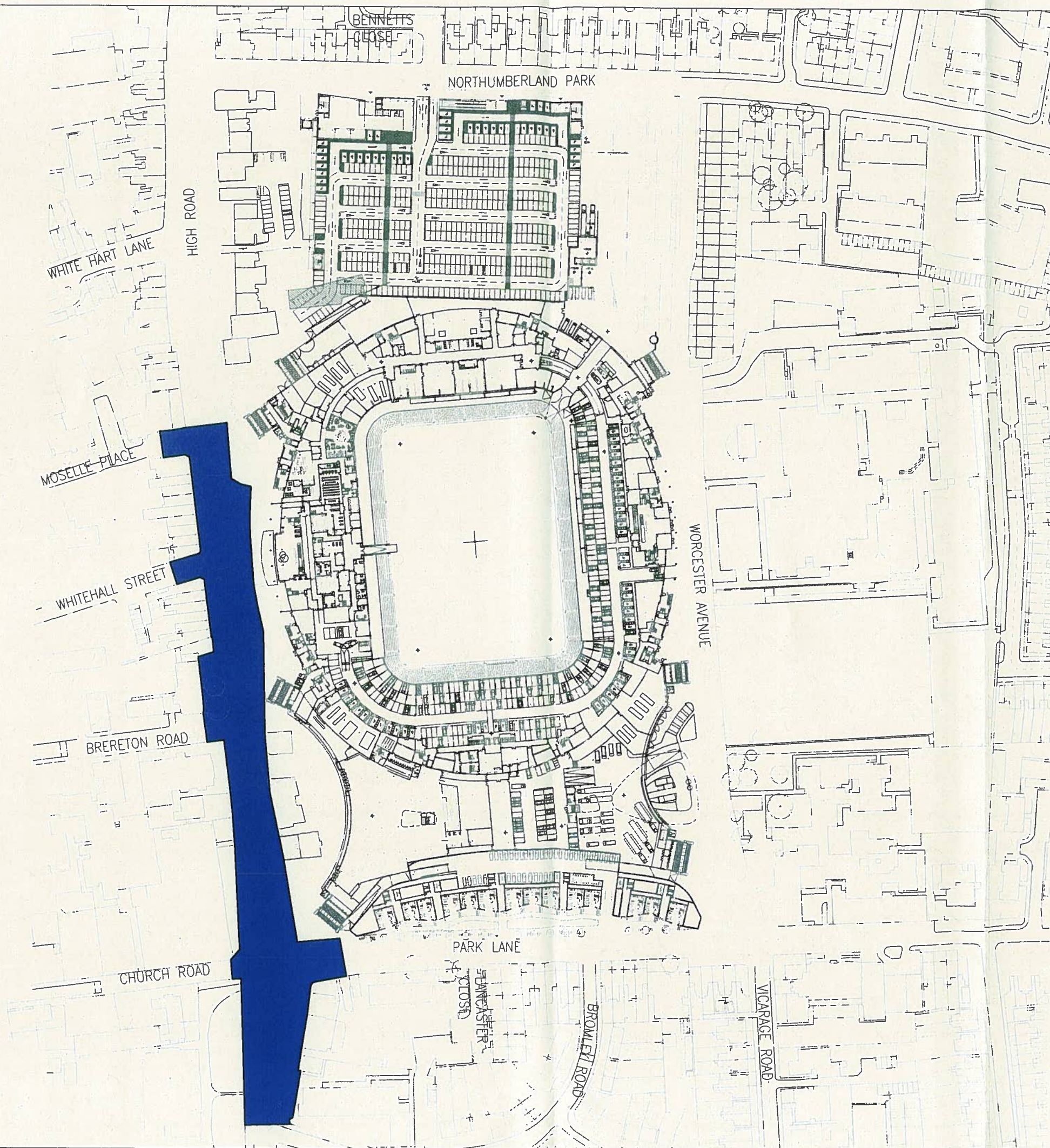
8.4. Detailed Cost Estimate for Drawing 8.2.B Northumberland Park and Lansdowne Road Bus Priority Measures

9. **Southern Development Highways Works**

9.1. Drawing 9.1.A dated 21 October 2010

9.2. Detailed Cost Estimate Phase 3 Cost based on BHC's Drawings, Series received on 01/06/10


9.3. Detailed Cost Estimate Worcester Avenue N17



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NOTES:

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Rev	Description	Checked	Date
Project:			
Northumberland Development Project			
Title:			
STADIUM DEVELOPMENT HIGHWAYS WORKS PHASE 2			
Part:			
Design:			
PM	PM	Checked:	
Scale:			
1:1000@A1	Date Drawing Created:		
	21-October-2010		
Dwg. No:		Rev:	
11.A			
FRONTLINE SERVICES HIGHWAYS ASSET GROUP			
2nd Floor South, River Park House, 222 High Road, Wood Green, London N22 8YQ Tel: 020 8483 0000 Fax: 020 8483 0001 Martin Anderson Director Project Services Frank Gelpy			
			
www.hartney.gov.uk			



Project NORTHUMBERLAND DEVELOPMENT**Proposed Works: PHASES 2 - COST BASED ON BHC's DRAWINGS, SERIES RECEIVED ON 01/06/10****CONFIRM Job Number: Not applicable**

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	1,338.12
0122102 A	Re-use information board (include for fixing a pair) as Appendix 1/21	NO	286.74
0123104 A	Provision of temporary signals for duration of works or section of works for alternate shuttle working two-way.	NO	286.74
0123105 A	As item 0123104 but shuttle working three way	NO	630.81
0123108 A	Maintenance of temporary traffic signals - two way	DAY	2,150.55
0123109 A	Maintenance of temporary traffic signals - three way	DAY	2,007.25
0123111 A	Removal of temporary traffic signals. - two way	NO	47.78
0123112 A	Removal of temporary traffic signals. - three way	NO	100.35
0123114 A	Provide barrel and concrete to accommodate existing traffic signal post, move as required and later remove.	NO	908.00
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	3,871.68
0208204 C	Take up or down and remove to store off site granite kerbing (dispose)	M	2,184.16
0210113 B	Take up or down and set aside for re-use pedestrian barrier rail	M	137.34
0213114 A	Take up or down and remove to store off site traffic sign 0.6m ² to 1.5m ² (dispose)	NO	69.10
SECTION 300: FENCING			
0310105 B	Remove from store and re-erect mild steel Bergo type or similar gate 1.2m high up to 1.0m wide	NO	459.48
0317113 A	Stainless steel bollard 1095mm high	NO	2,052.80
SECTION 400: GUARDRAILS, ETC.			
0445101 B	Stretford 75 v2 full height visirail panel 1160mm high	M	5,375.52
0445102 B	Trafford intermediate post only 1160mm high	NO	3,887.36
SECTION 500: DRAINAGE & SERVICE DUCTS			
0502103 B	150mm dia. Vitrified clay pipes standard strength in sewer or drain on bed type A in trench depth to invert not exceeding 2m average depth to invert 1m	M	2,419.20
0518103 A	Connection of 150mm dia. Pipe to existing 225mm dia. Drain, sewer or piped culvert, depth to invert not exceeding 2m average depth to invert 1m	NO	583.10
0525101 A	Trapped street gully specified design group type 1 precast (depth 1.5m) with Grade A Class 1 (Class D400) grating & frame	NO	2,593.36
SECTION 600: EARTHWORKS			

Project NORTHUMBERLAND DEVELOPMENT**Proposed Works: PHASES 2 - COST BASED ON BHC's DRAWINGS, SERIES RECEIVED ON 01/06/10****CONFIRM Job Number: Not applicable**

SQR Item	Description	Units	Amount
0601101 C	Excavation of acceptable material class 5A	M3	36,510.54
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	12,687.68
0609102 C	Disposal of acceptable material excluding class 5A	M3	61,627.72
0625101 C	Completion of sub-formation on acceptable material	M2	2,280.72
SECTION 700: PAVEMENTS			
0701101 C	Granular type 1 sub-base in carriageway placed and compacted in layers not exceeding 110mm	M3	49,869.94
0702109 C	AC dense base 40/60 - 200mm thick in carriageway	M2	116,828.36
0705103 C	AC 20 bin 100/150 - 60mm thick in carriageway	M2	100,464.66
0706103 C	AC 14 close surf 100/150 - 40mm thick in carriageway	M2	98,438.22
0708701 D	As item 0708301 but red aggregate	M2	20,280.24
0709201 D	As item 0708301 but green or buff aggregate	M2	13,362.89
0710101 D	Bituminous spray tack coat to cl. 920	M2	1,480.86
0712102 A	AC 20 reg	TO	512.28
0714105 D	As item 0714101 but not exceeding 50mm depth	M2	8,463.28
0714109 D	As item 0714101 but not exceeding 75mm depth	M2	9,758.68
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1102107 C	Granite kerbing to 1100-1 laid straight or curved exceeding 12m radius	M	13,203.45
1102108 B	Granite kerbing to 1100-1 laid to curves not exceeding 12m radius	M	1,846.65
1108113 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	1,719.60
1108104 C	Yorkstone paving flags in footway on granular type 1 sub base 100mm thick	M2	186,240.00
SECTION 1200: TRAFFIC SIGNS AND STREET FURNITURE			
1241117 B	As item 1241105 but 200mm wide	M	44.85
1241121 D	As item 1241105 but 250mm wide	M	322.00
1241141 B	As item 1241137 (100mm wide) but with 1000mm line and 1000mm gap	M	34.50
1241153 D	As item 1241137 (100mm wide) but with 4000mm line and 2000mm gap	M	196.88
1241161 D	As item 1241137 but with 100mm wide line and 150-615mm gap (markingAs road studs)	M	506.00

Project NORTHUMBERLAND DEVELOPMENT

Proposed Works: PHASES 2 - COST BASED ON BHC's DRAWINGS, SERIES RECEIVED ON 01/06/10

CONFIRM Job Number: Not applicable

SQR Item	Description	Units	Amount
1241189 B	Intermittent line in white thermoplastic screed with applied ballotini 200mm wide with 600mm line and 300mm gap	M	52.90
1241197 C	Intermittent line in white thermoplastic screed with applied ballotini 300mm wide with 1000mm line and 1000mm gap	M	107.87
1241205 D	Ancillary line in white thermoplastic screed with applied ballotini 100mm wide in hatched areas or in zigzag	M	128.80
1241209 B	Ancillary line in white thermoplastic screed with applied ballotini 150mm wide in hatched areas	M	32.40
1241225 A	Triangle in white thermoplastic screed 750mm width height not exceeding 1850mm to TRSGD diag. Nos. 1060, 1061.1, 1061 or 1061.1	NO	82.80
1241293 B	Numerals in white thermoplastic screed applied ballotini 1600mm high	NO	120.82
1241309 A	Cycle symbol in white thermoplastic screed with applied ballotini 2750mm x 1700mm to TRSGD dia. No. 1057	NO	28.75
1251109 D	As item 1251101 but 100mm wide	M	486.22
1251137 C	As item 1251133 but 100mm wide with 1000mm line and 1000mm gap	M	31.32
			769,141.32

Extra Over - Traffic Management

0123101 A	Traffic Safety and Management on Trunk, Priority (Red) Route, Designated Route or Class A Road.	5%	£38,457.07
0126101 A	Extra over for works carried out outside normal working hours (0730 hours – 1800 hours) on weekdays and Saturdays	30%	£40,275.43

847,873.82

nd

A	Safety Audit Stages 2 & 3, TMO's, Notices, etc. _____	6,000.00
ADD THE FOLLOWING PROVISIONAL SUMS FOR THE TRAFFIC SIGNALS		
B	2 Nos of proposed Puffin Crossings at High Road	
C	Draw pits _____	
D	Ducting in C/way and footways _____	
E	Re-instatement of pavements _____	
F	Traffic Controllers (2 Nos) by DTO Including - Supply and install equipment, staff costs, provision of stats, commuted maintenance, etc. _____	235,840.00
G	Remove existing Traffic Signals at High Road and re-instate, make good	15,000.00
H	Sub-total _____	1,104,713.82
I	Add 10% contingencies _____	110,471.38
J	Sub-total _____	1,215,185.20
K	Add 15% fees _____	182,277.78
L	TOTAL _____	1,397,462.98

Project NORTHUMBERLAND DEVELOPMENT

Proposed Works: PHASES 2 - COST BASED ON BHC's DRAWINGS, SERIES RECEIVED ON 01/06/10

CONFIRM Job Number: Not applicable

SOR Item	Description	Units	Amount
M	OVERALL TOTAL, SAY -----		1,400,000.00

BRIEF NOTES ON THE ABOVE COST

1. The cost includes for re-surfacing of High road, i.e. new surface (wearing course) & binder course (basecourse). There was no information for the condition of existing carriageway, therefore an allowance was made for new surface binder courses.

2. The resin bound gravel proposed by the Landscape Architect was replaced with concrete blocks for footways and carriageway. Resin bound finish is very expensive to be maintained by the Council; it is not recommended for areas used by HGVs.

IMPORTANT NOTE - THE ABOVE GIVEN COST IS VALID ONLY FOR THE CURRENT FINANCIAL YEAR; THIS IS SUBJECT TO FUTURE ADJUSTMENT USING THE BAXTER INDEX (INFLATION RATE)

Project Title: NORTHUMBERLAND DEVELOPMENT - COPY FOR LEGAL (Without Qties & rates)

Proposed Works: PHASE 1 - COST BASED ON DRAWINGS BHC- SERIES RECEIVED ON 01/06/10

CONFIRM Job Number: Not applicable

SOR Item	Description	Units	Amount
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BRIEF NOTES ON THE ABOVE COST AND PROVIDED DESIGN.

POSSIBLE SAVINGS.

1. The cost includes for new re-surfacing, i.e surface (wearing course) & binder course (basecourse). There was no information for the condition of existing carriageway, therefore an allowance was made for new binder course (basecourse). It is suggested that a number of cores (say at intervals of 80 to 100m) be carried out along the High Road for evaluating the structural condition of the road pavement. Similarly, this should be done for the Northumberland Park. The information from the cores can also be used for the widening part of the road.

2. There is a possibility that the existing granite kerbs at the widening area can be re-used because they were installed about 2 / 3 years ago, similarly some of the existing 400x400x65mm Charmwood footway paving slabs could be reused.

EXCLUDED ITEMS FROM ABOVE COSTS

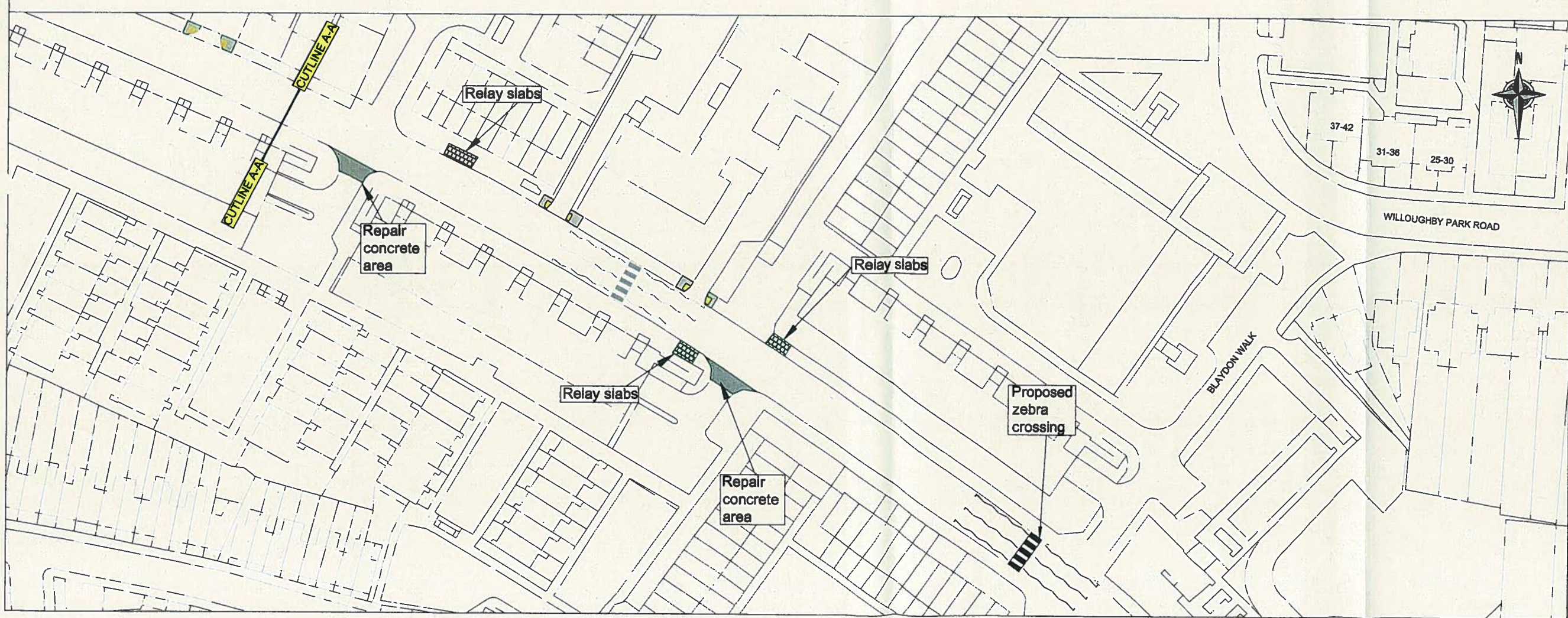
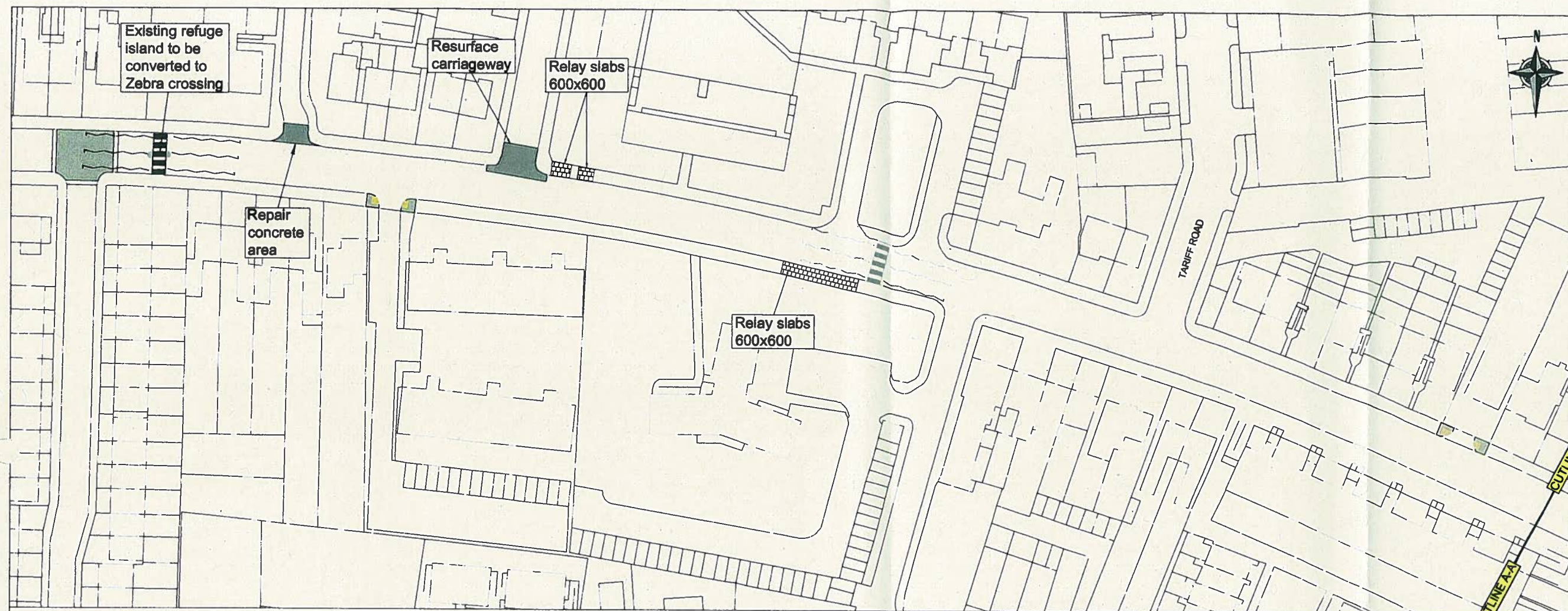
1. Bus shelter removal
2. Tree removal
3. Telephone box removal
4. Bus Transponder to be relocated
5. Miscellaneous street furniture items not on term maintenance contract schedule of rates e.g. cycle stands, litter bins.

PROVIDED DESIGN

1. The provided drawings do not show design levels. It is important that the developer's consultant provide design levels at an early stage to prove that by widening the carriageway there will be no problems with regard to the thresholds of the existing properties. This information will be important for evaluating existing and proposed statutory services.

It is paramount that new longitudinal gradients and crossfalls, for carriageway and footways, meet the highways standards.

2. The proposed number of gullies are not sufficient. An allowance was made in the above costing.



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NOTES:

Proposed drop kerbs with tactile paving

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Rev	Description	Checked	Date

Project: Pedestrian Routes S278 Works
Coach Routes

Client: Northumberland Park
Carriageway Resurfacing, Footway Works
& Drop Kerbs with Tactile Paving

Drawn: PM
Checked: PM

Scale: 1:200
Date Drawing Created: June 2010

Dwg. No: 2.2.B-CR-06-Northumberland Park

FRONTLINE SERVICES
TRANSPORT POLICY & PROJECTS

2nd Floor South, River Park House, 225 High Road, West Green, London H20 9JG
Tel: 020 8461 0200 Fax: 020 8461 0201
Website: www.frontline-services.co.uk

Project Title: Pedestrian Routes-S278 Works-Coach Routes-2.2.B-CR-06-Northumberland Park

24/08/2010

Proposed Works: Northumberland Park-(Worcester Avenue-Blaydon Walk)- Footway works, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 200: SITE CLEARANCE			
0206101 C	Take up or down and set aside for re-use precast 50/63mm concrete slab paving	M2	239.36
0208103 B	Take up or down and set aside for re-use granite kerbing	M	262.56
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	1,217.54
0606101 B	Extra over excavation for excavation in hard material in cutting and other excavation	M3	542.83
0609103 C	Disposal of unacceptable material class U1	M3	2,055.13
0625101 C	Completion of sub-formation on acceptable material	M2	106.64
SECTION 700: PAVEMENTS			
0701101 A	Granular type 1 sub-base in carriageway placed and compacted in layers not exceeding 110mm	M3	497.27
0702105 B	Wet lean concrete ST4 with 40mm aggregate jointed reinforced concrete road base 200mm thick in carriageway	M2	3,676.29
0702109 B	AC dense base 40/60 - 200mm thick in carriageway	M2	2,759.44
0705105 B	HRA 60/20 bin 100/150 - 60mm thick in carriageway	M2	1,277.04
0706103 B	AC 14 close surf 100/150 - 40mm thick in carriageway	M2	886.04
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1104104 B	Remove from store and relay granite kerbing laid to curves not exceeding 12m radius	M	995.04
1108113 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	1,375.68
1111102 C	Remove from store and relay 50mm thick precast concrete slabs in footway	M2	1,501.44
			17,392.29

17,392.29

Zebra crossing works

40,000.00

Grand Total

57,392.29

End

A 10% Contingencies

5,739.23

B Overall Total

63,131.52

Proposed Raised Junction

111
Warehouse

BRANTWOOD ROAD


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Warehouse

Warehouse

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NOTES:

Existing modular/block paving
to be removed and resurfaced
with Tarmac

 Proposed drop kerbs with tactile paving



Warehouse

Warehouse

Warehouse

BRANTWOOD ROAD

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Warehouse

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Proposed Raised Junction

BRANTWOOD ROAD

Factory

Relay existing tactile

Fill level with
footpath with
tarmac

Rev	Description	Checkad	Date
Project:			
Pedestrian Routes S278 Works Coach Routes			
Title:			
Brantwood Road Proposed Raised Junction, Footway Works & Drop Kerbs with Tactile Paving			
P/B:			
Designed:	Drawn:	Checked:	
PM	PM		
Scale:	1:200	Date Drawing Checked:	June 2010
Orig. No:	2.2.B-CR-02-Brantwood Road	Rev:	
FRONTLINE SERVICES TRANSPORT POLICY & PROJECTS 2nd Floor South, River Park House, 228 High Street, West Green, London EC2A 4WJ Tel: 020 4499 0050 Fax: 020 4499 1251 Include Available Street Pavement Services: Road Only			
www.hartings.co.uk			 Hartings

Project Title: Pedestrian Routes-S278 Works-Coach Routes-2.2.B.CR-02-Brantwood Road

24/08/2010

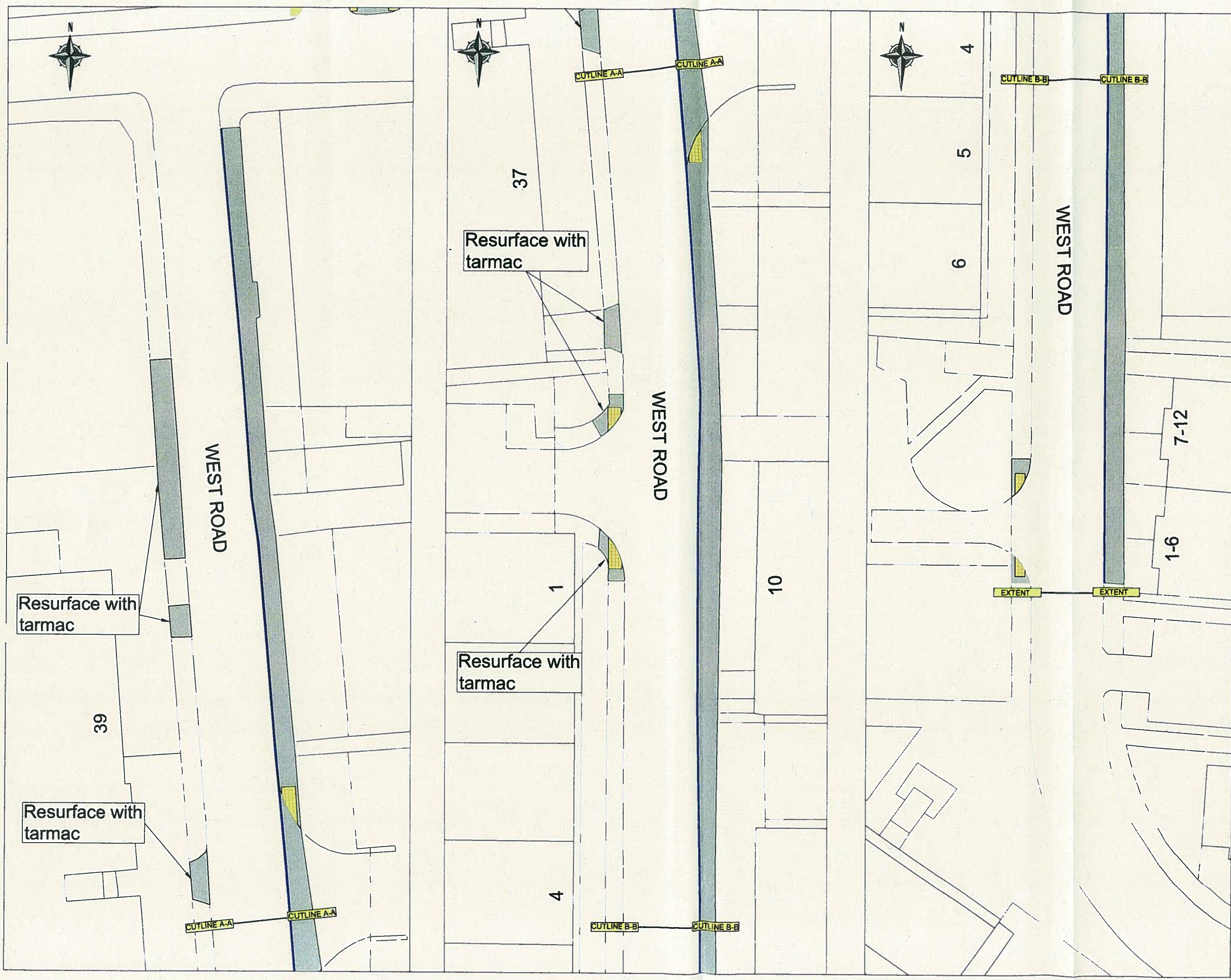
Proposed Works: Speed tables, footway works, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	334.53
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	2,866.70
0208103 C	Take up or down and set aside for re-use granite kerbing	M	466.56
SECTION 300: FENCING			
0317114 B	Doric cast iron bollard in black gloss finish with top painted in white gloss finish	NO	1,820.76
SECTION 500: DRAINAGE & SERVICE DUCTS			
0547109 A	Raising or lowering the level of large cover and frame 0.11 to 0.6 sq m on brick chamber not exceeding 150mm	NO	317.30
0547113 A	As item 0547109 but exceeding 150mm and not exceeding 300mm	NO	548.70
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	4,653.00
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	1,918.50
0609103 C	Disposal of unacceptable material class U1	M3	7,854.00
SECTION 700: PAVEMENTS			
0705104 C	AC 20 bin 100/150 - 75mm thick in carriageway	M2	15,800.00
0706103 C	AC 14 close surf 100/150 - 40mm thick in carriageway	M2	12,630.00
0714129 D	Planing off flexible pavement not exceeding 25mm	M2	1,900.00
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1104102 B	Remove from store and relay precast concrete kerbing laid straight or curved exceeding 12m radius	M	1,667.52
1106101 C	Footway comprising granular material type 1 sub-base 150mm thick, AC 20 bin 100/150 - 40mm thick; AC 6 surf 100/150 - 20mm thick	M2	43,766.80
1108113 C	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	5,158.80
1111113 A	Remove from store and relay 400 x 400mm x 65mm tactile precast concrete slabs in footway on granular type 1 sub base 100mm thick	M2	205.36
			101,908.53
Extra Over - Traffic Management			
0123101 A	Traffic Safety and Management on Trunk, Priority (Red) Route, Designated Route or Class A Road.	5%	5095.43

24/08/2010

End



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NOTES:

- Footway to be resurfaced with tarmac
- Proposed drop kerbs with tactile paving
- Kerbs to be taken up and relaid

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Rev	Description	Checked	Date
1	Project		
1	Pedestrian Routes S278 Works Coach Routes		
1	West Road Proposed Raised Junction, Footway Works & Drop Kerbs with Tactile Paving		
1	Drawn: PM	Checked: PM	
1	Scale: 1:200	Date Drawing Created: June 2010	
1	Orig. No: 2.2.B-CR-03-West Road	Rev: 1	
FRONTLINE SERVICES TRANSPORT POLICY & PROJECTS <small>2nd Floor South, River Park House, 255 High Road, West Green, London N12 8JG Tel: 020 8448 8200 Fax: 020 8448 1251 Mobile: 07946 000000 Email: info@frontlineservices.co.uk</small>			

www.kartegor.com

Project Title: Pedestrian Routes-S278 Works-Coach Routes-2.2.B-CR-03-West Road

24/08/2010

Proposed Works: Footway works, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	334.53
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	196.20
0208103 C	Take up or down and set aside for re-use granite kerbing	M	1,394.82
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	2,314.09
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	1,908.27
0609103 C	Disposal of unacceptable material class U1	M3	3,906.06
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1104102 C	Remove from store and relay precast concrete kerbing laid straight or curved exceeding 12m radius	M	4,359.87
1104104 B	Remove from store and relay granite kerbing laid to curves not exceeding 12m radius	M	746.28
1106101 C	Footway comprising granular material type 1 sub-base 150mm thick, AC 20 bin 100/150 - 40mm thick; AC 6 surf 100/150 - 20mm thick	M2	20,278.16
1108113 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	1,031.76
			36,470.04
Extra Over - Traffic Management			
0123102 A	Traffic Safety and Management on other borough roads.	3%	1094.10

37,564.14

End

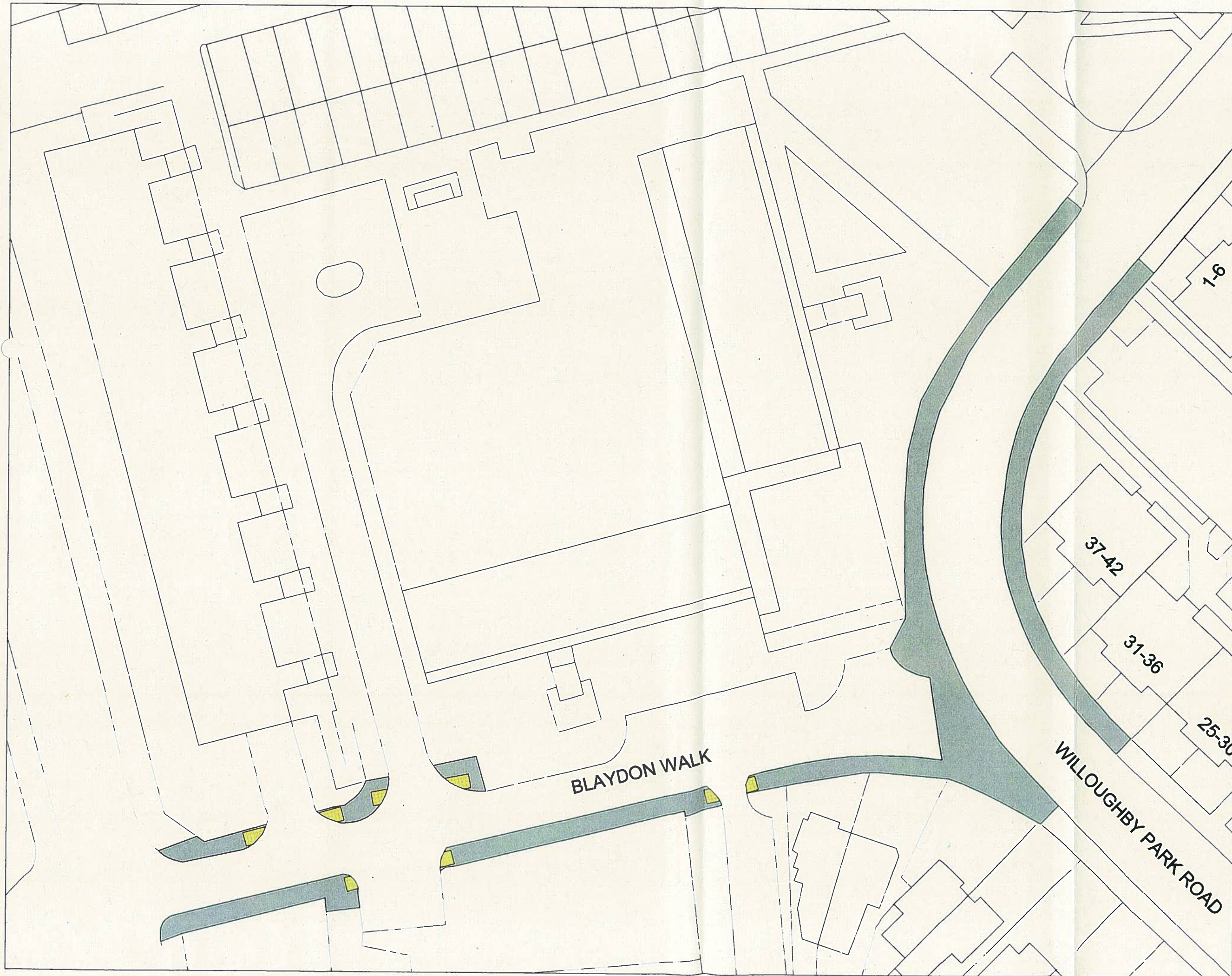
A	10% Contingencies	3,756.41
B	Overall Total	41,320.55
C	Fees	8,264.11
D	<u>Total including fees</u>	49,584.66

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NOTES:

Existing slab/tarmac area to be removed and resurfaced with tarmac

Proposed drop kerbs with tactile paving



BB
14/6/10
KRD
[Signature]
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Rev	Description	Checked	Date
1	Pedestrian Routes S278 Works Coach Routes		
Title: Blaydon Walk Footway Works & Drop Kerbs with Tactile Paving			
Designed: PM	Drawn: PM	Checked:	
Scale: 1:200	Date Drawing Created: June 2010		
Dwg. No.: 2.2.B-CR-04-Blaydon Walk			
FRONTLINE SERVICES TRANSPORT POLICY & PROJECTS			
2nd Floor South, River Park House, 222 High Road, Wood Green, London N22 8YD Tel: 020 88402000 Fax: 020 8840 1231 Website: London Borough of Haringey Frontline Services - Park City			



Project Title: Pedestrian Routes-S278 Works-Coach Routes-2.2.B-04-Blaydon Walk

24/08/2010

Proposed Works: Blaydon Walk-Willoughby Park Road- Footway works, drop kerbs with tactile paving

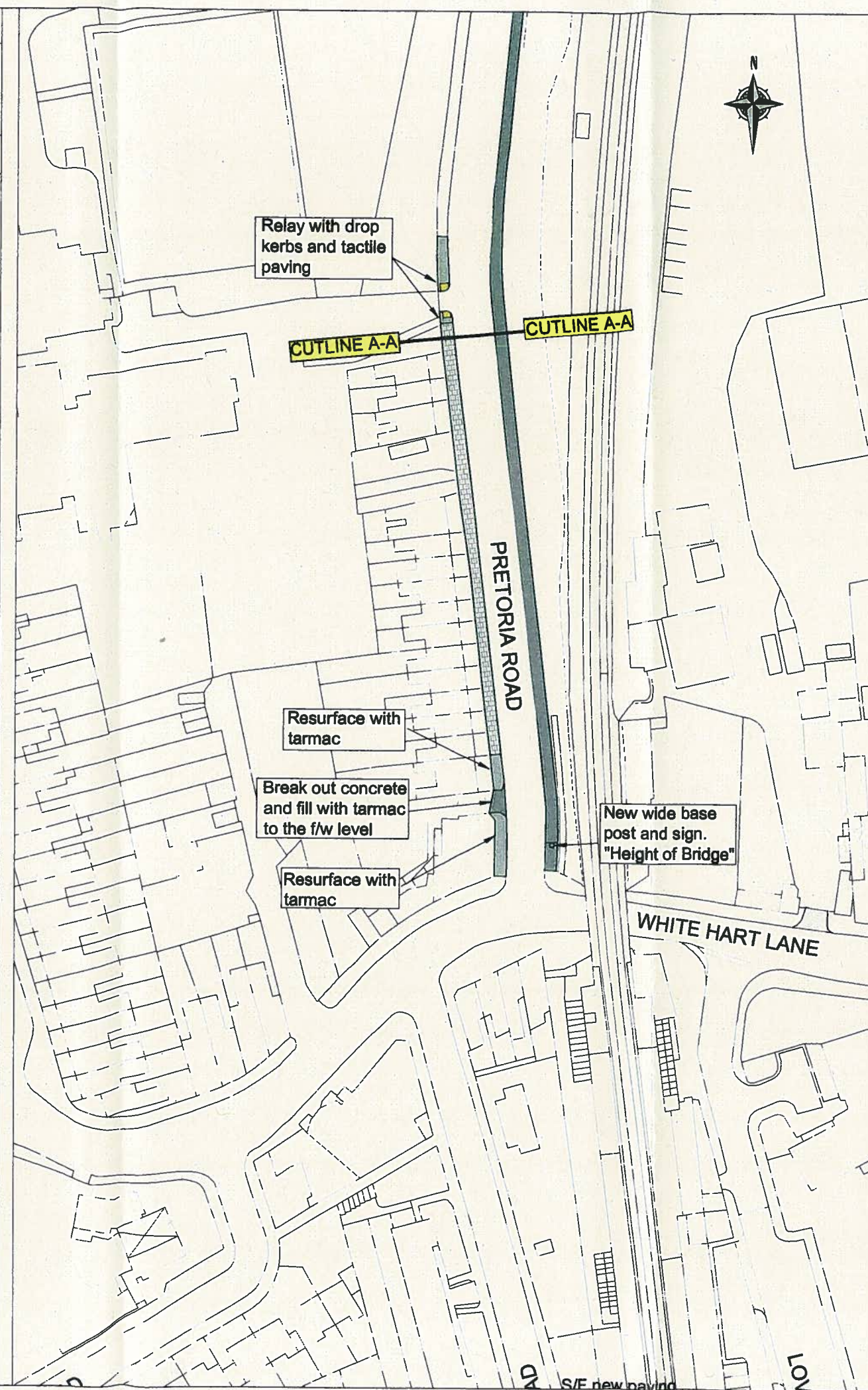
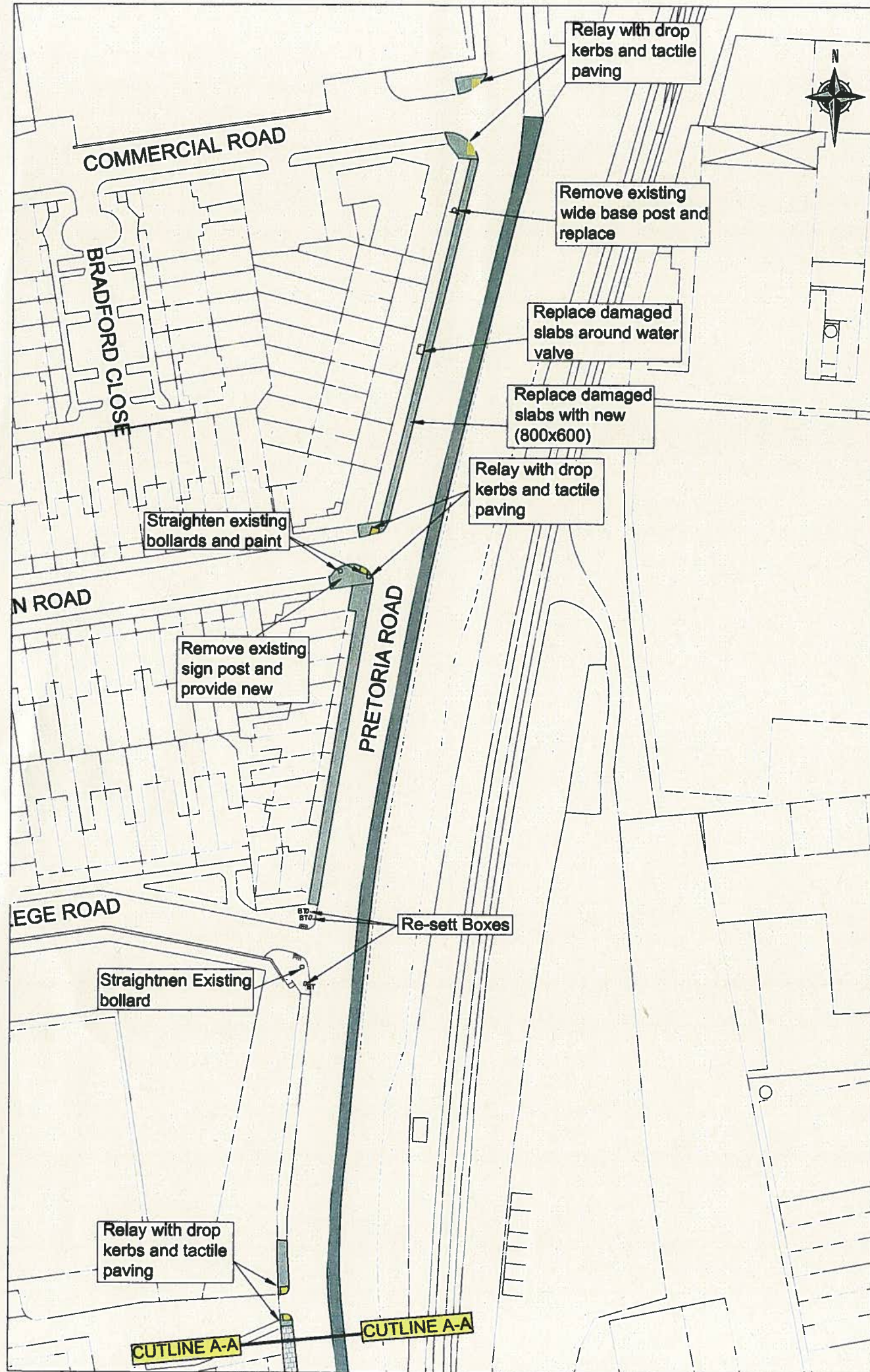
CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	334.53
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	974.46
0208103 B	Take up or down and set aside for re-use granite kerbing	M	262.56
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	2,055.08
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	1,694.68
0609103 C	Disposal of unacceptable material class U1	M3	3,468.85
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1104102 B	Remove from store and relay precast concrete kerbing laid straight or curved exceeding 12m radius	M	833.76
1106101 C	Footway comprising granular material type 1 sub-base 150mm thick, AC 20 bin 100/150 - 40mm thick; AC 6 surf 100/150 - 20mm thick	M2	20,278.16
1108113 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	1,375.68
			31,277.75
Extra Over - Traffic Management			
0123102 A	Traffic Safety and Management on other borough roads.	3%	938.33

32,216.08

End

A	10% Contingencies	3,221.61
B	Overall Total	35,437.69
C	Fees	7,087.54
D	<u>Total Including fees</u>	42,525.23



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NOTES:

- Existing tarmac surfacing to be removed and resurfaced with tarmac
- Proposed drop kerbs with tactile paving
- Kerbs to be taken up and relaid
- Existing modular/block paving to be removed and resurfaced with Tarmac
- Relay slabs 800 x 600 to full width of footway

Handwritten notes and signatures:
SS
ash.
WGT
RR
WGT
VG

Rev	Description	Checked	Date
1	Pedestrian Routes S278 Works Coach Routes		
2	Pretoria Road Footway Works & Drop Kerbs with Tactile Paving		
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Scale: 1:500
 Date Drawing Created: June 2010
 Drawn: PM
 Checked: PM
 Title: 2.2.B-CR-01-Pretoria Road
 Project: FRONTLINE SERVICES
 TRANSPORT POLICY & PROJECTS
 3rd Floor South, River Park House, 225 High Road, West Green, London N22 6BQ
 Tel: 020 8488 0200 Fax: 020 8488 1251
 Website: www.frontline.co.uk
 e-mail: info@frontline.co.uk

Project Title: Pedestrian Routes S278 Works-Coach Routes-2.2.B-CR-01-Pretoria Road

24/08/2010

Proposed Works: Footway works, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 200: SITE CLEARANCE			
0206101 C	Take up or down and set aside for re-use precast 50/63mm concrete slab paving	M2	362.56
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	1,388.66
0208103 B	Take up or down and set aside for re-use granite kerbing	M	196.92
0213103 A	Take up or down and set aside for re-use traffic bollard cast iron	NO	53.61
0213147 A	Take up or down and remove to store off site sign post (dispose).	NO	53.61
SECTION 300: FENCING			
0317104 A	Remove from store and re-erect cast iron or steel bollard	NO	126.75
SECTION 500: DRAINAGE & SERVICE DUCTS			
0547129 A	Raising or lowering BT cover and frame (1bay) not exceeding 150mm –	NO	130.32
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	4,156.68
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	1,713.86
0609103 C	Disposal of unacceptable material class U1	M3	7,016.24
0625101 C	Completion of sub-formation on acceptable material	M2	88.58
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1104104 B	Remove from store and relay granite kerbing laid to curves not exceeding 12m radius	M	746.28
1106101 C	Footway comprising granular material type 1 sub-base 150mm thick, AC 20 bin 100/150 - 40mm thick; AC 6 surf 100/150 - 20mm thick	M2	34,821.36
1108113 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	687.84
1111102 C	Remove from store and relay 50mm thick precast concrete slabs in footway	M2	2,274.24
SECTION 1200: TRAFFIC SIGNS AND STREET FURNITURE			
1202106 A	Remove from store and re-erect retro-reflective traffic sign as non-LIT sign unit appr. Exceeding 0.5m² but not exc. 0.75m² in area on one tubular steel post	NO	72.30
			53,889.81
Extra Over - Traffic Management			
0123102 A	Traffic Safety and Management on other borough roads.	3%	1616.69

55,506.50

End

Project Title: Pedestrian Routes S278 Works-Coach Routes-2.2.B-CR-01-Pretoria Road

24/08/2010

Proposed Works: Footway works, drop kerbs with tactile paving

Footway works, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
A	10% Contingencies		5,550.65
B	Overall Total		61,057.15
C	Fees		12,211.43
D	<u>Total including fees</u>		<u>73,268.59</u>



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- NOTES:
- Existing modular/block paving to be removed and resurfaced with Tarmac
 - Proposed drop kerbs with tactile paving
 - Existing area around drop kerbs to be resurfaced with tarmac

Handwritten signatures and initials: *SS*, *WRS*, *ash*, *1/2*

Rev	Description	Checked	Date
1	Pedestrian Routes S278 Works Coach Routes		
Title: Tariff Road Proposed Raised Junction, Footway Works & Drop Kerbs with Tactile Paving			
Scale: 1:200			
Date Drawing Created: June 2010			
2.2.B-CR-05-Tariff Road			
FRONTLINE SERVICES TRANSPORT POLICY & PROJECTS			
3rd Floor South, River Park House, 225 High Road, Vintry, London EC2A 3EJ Tel: 020 8480 0000 Fax: 020 8480 1231 Internet: www.frontline.co.uk			

Project Title: Pedestrian Routes S278 Works-Coach Routes-2.2.B-CR-05-Tarrif Road

24/08/2010

Proposed Works: Footway works, drop kerbs with tactile paving

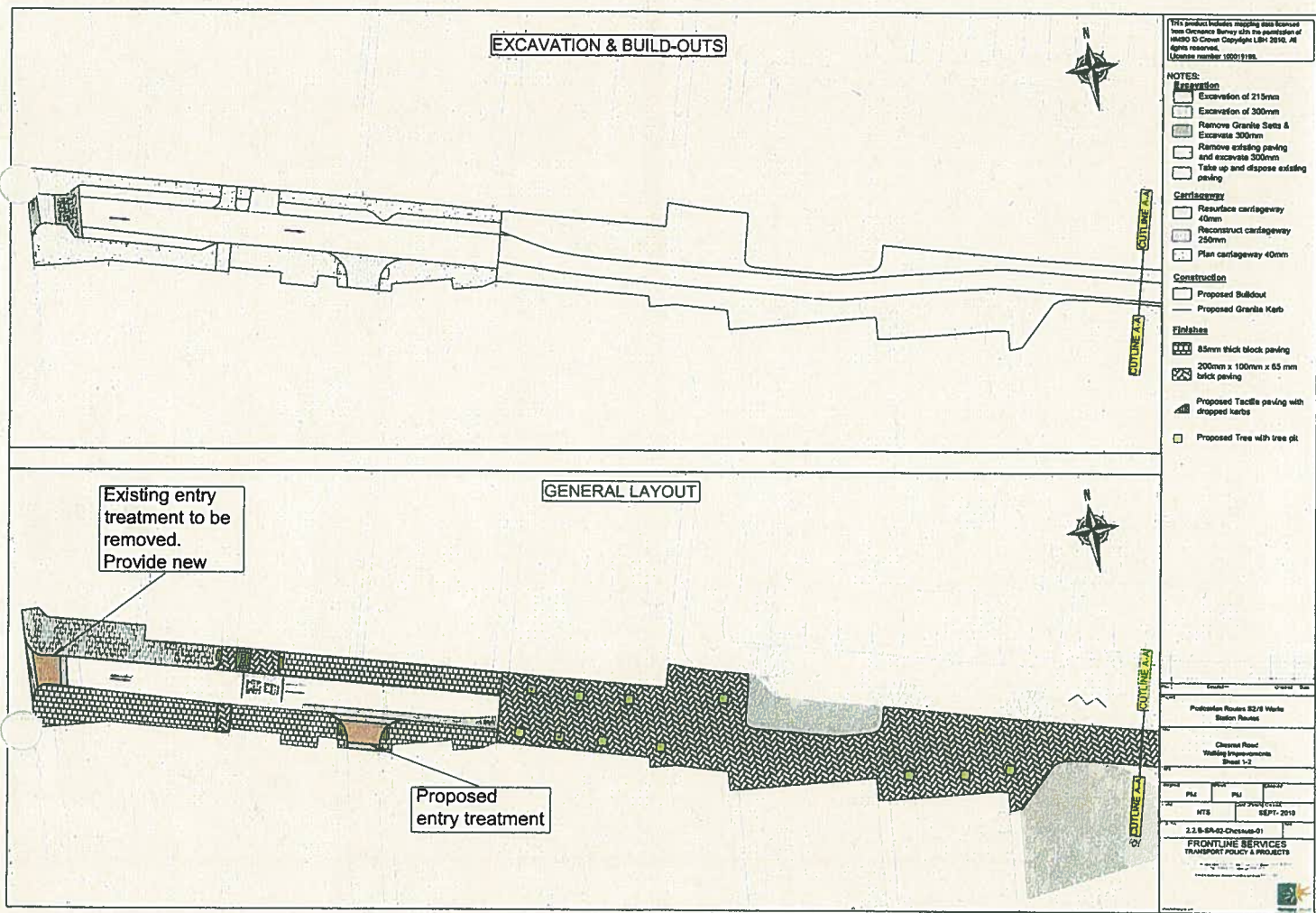
CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	334.53
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	183.12
0206108 B	Take up or down and remove to store off site granite sett paving (dispose)	M2	109.95
0208103 C	Take up or down and set aside for re-use granite kerbing	M	466.56
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	1,147.74
0606101 B	Extra over excavation for excavation in hard material in cutting and other excavation	M3	511.71
0609103 C	Disposal of unacceptable material class U1	M3	1,937.32
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1104102	Remove from store and relay precast concrete kerbing laid straight or curved exceeding 12m radius	M	
1104104 B	Remove from store and relay granite kerbing laid to curves not exceeding 12m radius	M	1,990.08
1106101 C	Footway comprising granular material type 1 sub-base 150mm thick, AC 20 bin 100/150 - 40mm thick; AC 6 surf 100/150 - 20mm thick	M2	5,350.80
1108113 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	2,149.50
			14,181.31
Extra Over - Traffic Management			
0123102 A	Traffic Safety and Management on other borough roads.	3%	425.44

14,606.75

End

A	10% Contingencies	1,460.67
B	Overall Total	16,067.42
C	Fees	3,213.48
D	<u>Total Including fees</u>	19,280.91



see .

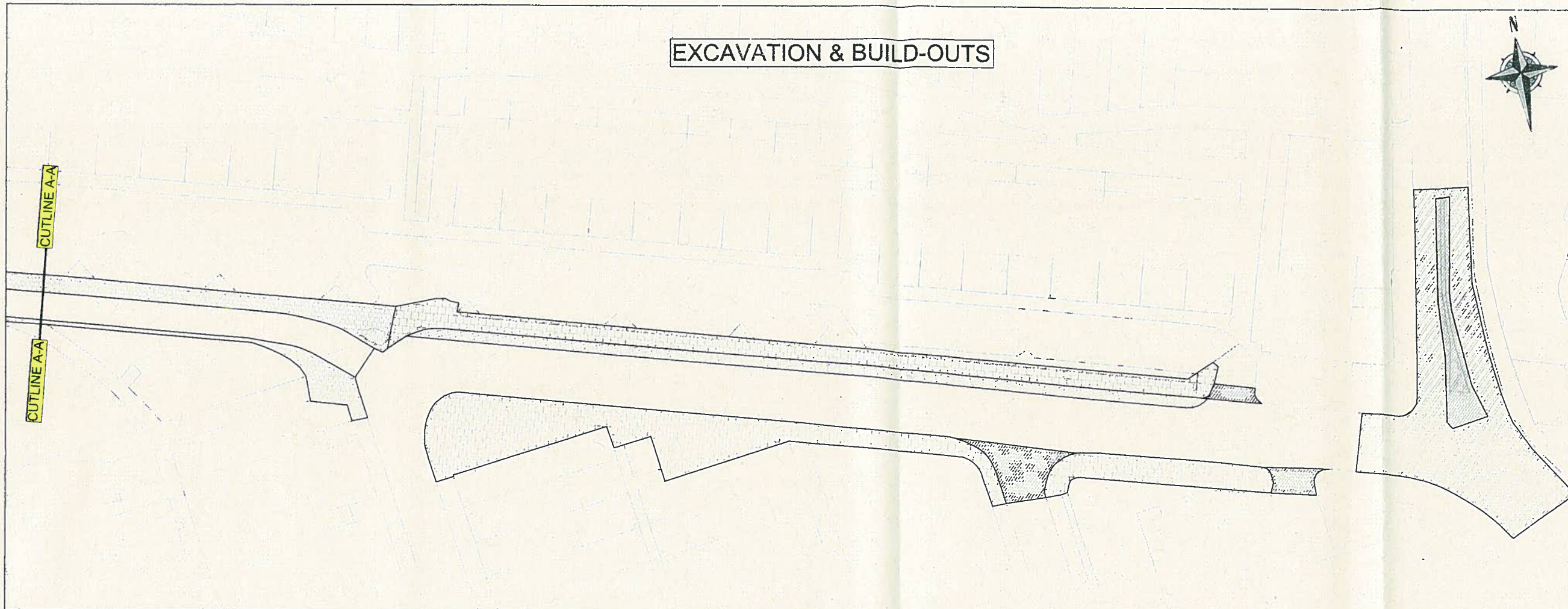
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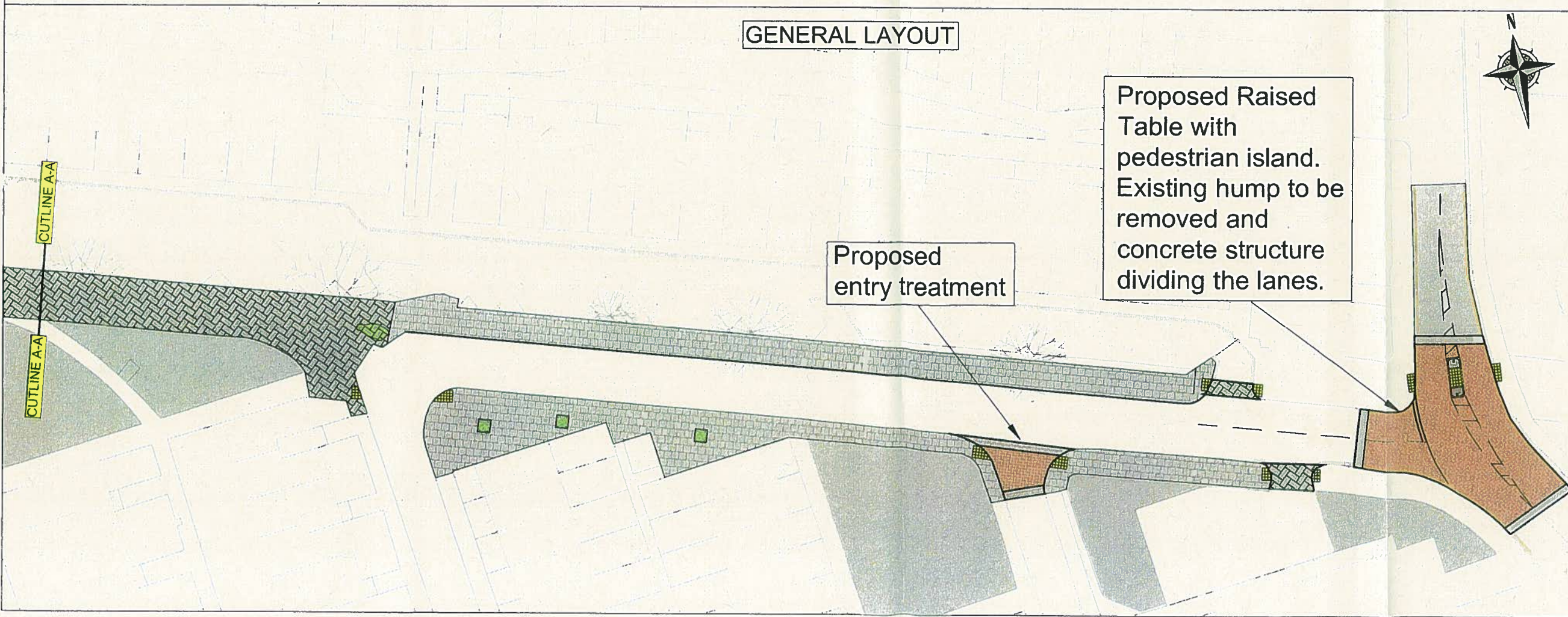
EXCAVATION & BUILD-OUTS



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- NOTES:**
- Excavation**
- Excavation of 215mm
 - Excavation of 300mm
 - Remove Granite Setts & Excavate 300mm
 - Remove existing paving and excavate 300mm
 - Take up and dispose existing paving
- Carriageway**
- Resurface carriageway 40mm
 - Reconstruct carriageway 250mm
 - Plan carriageway 40mm
- Construction**
- Proposed Buildout
 - Proposed Granite Kerb
- Finishes**
- 85mm thick block paving
 - 200mm x 100mm x 65 mm brick paving
 - Proposed Tactile paving with dropped kerbs
 - Proposed Tree with tree pit

GENERAL LAYOUT



Handwritten signatures and notes:

WBS

14/7/10

UG

Proposed Raised Table with pedestrian island. Existing hump to be removed and concrete structure dividing the lanes.

Proposed entry treatment

Rev	Description	Checked	Date
1	Proposed Raised Table with pedestrian island. Existing hump to be removed and concrete structure dividing the lanes.		
2	Proposed entry treatment		
3	Proposed Tree with tree pit		
4	Proposed Tactile paving with dropped kerbs		
5	Proposed Granite Kerb		
6	Proposed Buildout		
7	Proposed Granite Setts & Excavate 300mm		
8	Proposed Granite Setts & Excavate 300mm		
9	Proposed Granite Setts & Excavate 300mm		
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100	Proposed Granite Setts & Excavate 300mm		

FRONTLINE SERVICES
TRANSPORT POLICY & PROJECTS

2nd Floor South, West Park House, 225 High Road, Totton, Southampton SO40 2BQ
Tel: 01703 600000 Fax: 01703 600001

Website: www.frontline-services.co.uk Email: info@frontline-services.co.uk



Project Title: Pedestrian Routes-S278 Works-Station Routes-2.1.A-SR-02-Chestnuts-01&02

13/09/2010

Proposed Works: Proposed Footway improvements, Entry Treatments, Raised Table

CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	669.06
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	5,772.64
0208104 C	Take up or down and remove to store off site granite kerbing (dispose)	M	1,909.68
SECTION 500: DRAINAGE & SERVICE DUCTS			
0502104 B	150mm dia. Vitrified clay pipes standard strength in sewer or drain on bed type A in trench depth to invert not exceeding 2m average depth to invert 2m	M	5,057.50
0518103 B	Connection of 150mm dia. Pipe to existing 225mm dia. Drain, sewer or piped culvert, depth to invert not exceeding 2m average depth to invert 1m	NO	1,332.80
0540102 B	Remove from store and reinstall 0.11m ² to 0.60m ² cover & frame on brick chamber	NO	610.88
0546105 B	As item 0546101 but minimum nominal width 400mm – See BS497: 1976	NO	7,299.60
0547117 A	Raising or lowering the level of cover and frame up to 0.2sq m on precast concrete gully not exceeding 150mm	NO	450.56
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	6,166.78
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	2,501.72
0609103 C	Disposal of unacceptable material class U1	M3	10,409.17
0616101 B	Filling of soft spots and other voids below structural foundations with acceptable material type 1	M3	1,364.93
0625101 C	Completion of sub-formation on acceptable material	M2	1,637.44
SECTION 700: PAVEMENTS			
0702101 C	Wet lean concrete ST4 with 40mm aggregate unreinforced concrete road base 150mm thick carriageway	M2	3,586.66
0705105 C	HRA 60/20 bin 100/150 - 60mm thick in carriageway	M2	2,892.89
0706103 C	AC 14 close surf 100/150 - 40mm thick in carriageway	M2	3,283.80
0710101 C	Bituminous spray tack coat to cl. 920	M2	52.00
0714133 C	Planing off flexible pavement not exceeding 50mm	M2	1,310.00
0715101 A	Reinstatement of 150mm sewer drain or service duct in HRA to Drg. 500 –1 , 2 & 7 pavement and foundation under	M2	843.60
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1102103 A	Precast concrete kerbing quadrant 305 x 305mm	NO	103.92
1102107 B	Granite kerbing to 1100-1 laid straight or curved exceeding 12m radius	M	4,039.00

Project Title: Pedestrian Routes-S278 Works-Station Routes-2.1A-SR-02-Chestnuts-01&02

13/09/2010

Proposed Works: Proposed Footway improvements, Entry Treatments, Raised Table

CONFIRM Job Number:

SOR Item	Description	Units	Amount
1102108 C	Granite kerbing to 1100-1 laid to curves not exceeding 12m radius	M	15,956.20
1107102 C	100mm in situ concrete grade C30	M2	32,177.60
1107103 C	150mm in situ concrete grade C30	M2	8,606.15
1108102 C	50mm thick precast concrete slabs coloured in footway on granular type 1 sub base 100mm thick	M2	45,874.08
1108106 C	200mm x 100mm x 65mm brick paving in footway on granular type 1 sub base 100mm thick	M2	14,117.76
1108110 B	400mm x 400mm x 65mm concrete block paving in footway	M2	808.15
1108111 C	200mm x 100mm x 65mm brick paving in footway	M2	45,681.38
1108113 A	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	306.32
			224,822.27

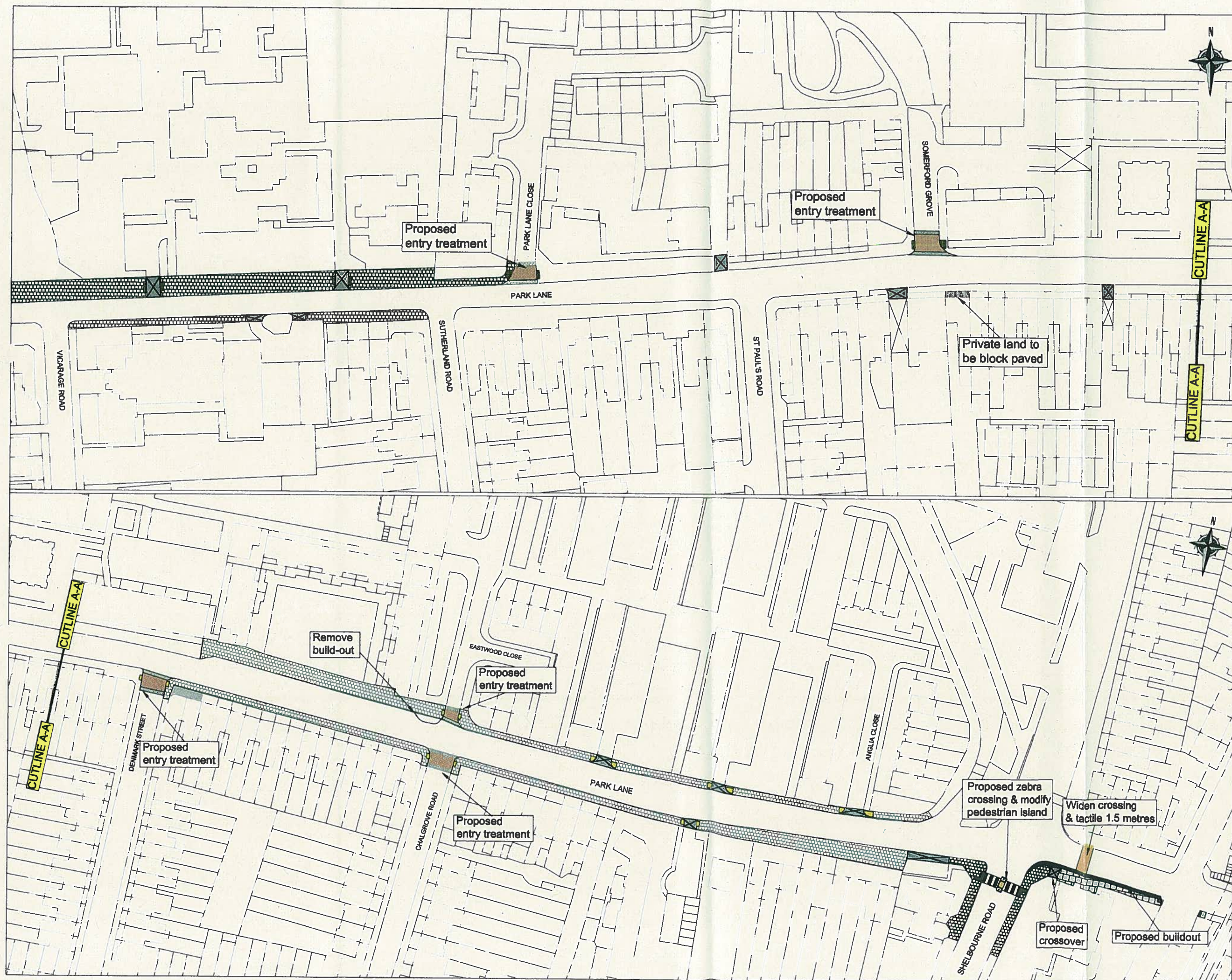
Extra Over - Traffic Management

0123101 A	Traffic Safety and Management on Trunk, Priority (Red) Route, Designated Route or Class A Road.	5%	11241.11
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236,063.39




End


A	10% Contingencies	23,606.34
C	Trees	18,000.00
D	Street Lighting	70,000.00
	Sub Total 2	347,669.72
E	Fees 15%	52,150.46
F	Grand Total	399,820.18



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NOTES:

-  Cross overs to be reconstructed
-  Proposed drop kerbs with tactile paving
-  Resurface footway with modular paving

Rev	Description	Checked	Date
Project:			
Pedestrian Routes S278 Works Station Routes			
Title:			
Park Lane Proposed Entry Treatments, Build-out, Crossover Drop Kerbs with Tactile Paving Footway Works & Zebra Crossing			
Path:			
Designed:		Drawn:	
PM		PM	
Checked:			
Scale:		Date Drawing Created:	
1:500		June 2010	
Dwg. No:			Rev:
2.1.8-SR-01-Park Lane			
FRONTLINE SERVICES TRANSPORT POLICY & PROJECTS 2nd Floor South, River Park House, 233 High Road, Wood Green, London N22 9HQ Tel: 020 9488 8200 Fax: 020 9489 1281 Technical Assistant: Gwenda Pratt-Hill Services: Park City			
www.hilltopgroup.co.uk			 Hilltopgroup



Project Title: Pedestrian Routes-S278 Works-Station Routes-2.1.A-SR-01-Park Lane

24/08/2010

Proposed Works: Footway works, Entry Treatments, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
SECTION 100: PRELIMINARIES			
0122101 A	Information board (Include for supply and fixing a pair) as Appendix 1/21	NO	334.53
SECTION 200: SITE CLEARANCE			
0206102 C	Take up or down and remove to store off site precast 50/63mm concrete slab paving (disposed)	M2	5,979.74
0208103 B	Take up or down and set aside for re-use granite kerbing	M	229.74
0208104 B	Take up or down and remove to store off site granite kerbing (dispose)	M	67.10
0213104 B	Take up or down and remove to store off site traffic bollard cast iron (dispose)	NO	318.24
SECTION 500: DRAINAGE & SERVICE DUCTS			
0502104 C	150mm dia. Vitrified clay pipes standard strength in sewer or drain on bed type A in trench depth to invert not exceeding 2m average depth to invert 2m	M	7,080.50
0518103 B	Connection of 150mm dia. Pipe to existing 225mm dia. Drain, sewer or piped culvert, depth to invert not exceeding 2m average depth to invert 1m	NO	1,666.00
0540102 B	Remove from store and reinstall 0.11m ² to 0.60m ² cover & frame on brick chamber	NO	763.60
0546105 B	As item 0546101 but minimum nominal width 400mm – See BS497: 1976	NO	7,299.60
0547117 B	Raising or lowering the level of cover and frame up to 0.2sq m on precast concrete gully not exceeding 150mm	NO	798.40
SECTION 600: EARTHWORKS			
0604101 C	Excavation of unacceptable material class U1 in cutting and other excavation	M3	12,718.20
0606101 C	Extra over excavation for excavation in hard material in cutting and other excavation	M3	5,243.90
0609103 C	Disposal of unacceptable material class U1	M3	21,467.60
0625101 C	Completion of sub-formation on acceptable material	M2	352.60
SECTION 700: PAVEMENTS			
0701101 B	Granular type 1 sub-base in carriageway placed and compacted in layers not exceeding 110mm	M3	835.27
0702101 C	Wet lean concrete ST4 with 40mm aggregate unreinforced concrete road base 150mm thick carriageway	M2	5,274.50
0702108 B	AC dense base 40/60 - 150mm thick in carriageway	M2	607.00
0705103 B	AC 20 bin 100/150 - 60mm thick in carriageway	M2	488.40
0705105 C	HRA 60/20 bin 100/150 - 60mm thick in carriageway	M2	6,915.09
0706103 C	AC 14 close surf 100/150 - 40mm thick in carriageway	M2	2,298.66
0707101 C	Rolled asphalt wearing course 40mm thick with 20mm coated chippings in the carriageway	M2	4,092.00
0710101 C	Bituminous spray tack coat to cl. 920	M2	57.00

Project Title: Pedestrian Routes-S278 Works-Station Routes-2.1.A-SR-01-Park Lane

24/08/2010

Proposed Works: Footway works, Entry Treatments, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
0714105 C	As item 0714101 but not exceeding 50mm depth	M2	476.84
0714114 B	As item 0714110 but 200mm thick	M2	625.40
0715101 B	Reinstatement of 150mm sewer drain or service duct in HRA to Drg. 500 -1 , 2 & 7 pavement and foundation under	M2	3,261.15
SECTION 1100: KERBS, FOOTWAYS AND PAVED AREAS			
1102103 A	Precast concrete kerbing quadrant 305 x 305mm	NO	207.84
1102107 C	Granite kerbing to 1100-1 laid straight or curved exceeding 12m radius	M	14,274.00
1102108 B	Granite kerbing to 1100-1 laid to curves not exceeding 12m radius	M	710.25
1104102 B	Remove from store and relay precast concrete kerbing laid straight or curved exceeding 12m radius	M	729.54
1106101 C	Footway comprising granular material type 1 sub-base 150mm thick, AC 20 bin 100/150 - 40mm thick; AC 6 surf 100/150 - 20mm thick	M2	7,546.00
1108105 C	400mm x 400mm x 65mm concrete block paving in footway on granular type 1 sub base 100mm thick	M2	77,133.16
1108106 C	200mm x 100mm x 65mm brick paving in footway on granular type 1 sub base 100mm thick	M2	7,568.00
1108108 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway on granular type 1 sub base 100mm thick	M2	1,635.30
1108111 A	200mm x 100mm x 65mm brick paving in footway	M2	98.56
1108113 B	400mm x 400mm x 65mm tactile precast concrete slabs in footway	M2	1,719.60
			200,873.31

Extra Over - Traffic Management

0123101 A	Traffic Safety and Management on Trunk, Priority (Red) Route, Designated Route or Class A Road.	5%	10043.67
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210,916.98

End

	1x Zebra Crossing	20,000.00
	Supply and plant 10 trees	15,000.00
	50 metres of fencing (Private and Highway boundary)	5,000.00
	Street Furniture, etc.	3,000.00

253,916.98

End

A	10% Contingencies	25,391.70
B	Overall Total	279,308.68
C	Fees	55,861.74

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24/08/2010

Proposed Works: Footway works, Entry Treatments, drop kerbs with tactile paving

CONFIRM Job Number:

SOR Item	Description	Units	Amount
D	<u>Total including fees</u>		335,170.41