Appendix E

Option Cost Methodology



Wellington Public Transport Spine Study

Option Evaluation Report



Wellington Public Transport Spine Study

Option Evaluation Report

Prepared for

Greater Wellington Regional Council

Prepared by

Davis Langdon New Zealand Ltd

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12 June 2013

60222076

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Quality Information

Document Wellington Public Transport Spine Study

Ref 60222076

Date 12 June 2013

Prepared by Steuart Ogilvie

Reviewed by Craig Mills

Revision History

| Revision | Revision | Details | Autho | orised |
|----------|-----------------|----------------------------|-----------------------------------|-----------|
| 1101011 | Date | Betans | Name/Position | Signature |
| | 30-May- 2013 | | Craig Mills Technical Director | 20 2 |
| | 12-Jun-2013 | tunnel option confirmation | Craig Mills Technical Director | Mills |
| | | | | |
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Table of Contents

| Executive | Summary | 1 |
|-----------|---------------------------------------|---|
| 1.0 | Indicative Cost Plan | 3 |
| 2.0 | Benchmarking | 4 |
| 3.0 | Sensitivity Analysis | 4 |
| 4.0 | Design and Construction Risk Analysis | 4 |

Executive Summary

This cost report has been prepared for Greater Wellington Regional Council from the Public Transport Spine Study modelling and corridor definition.

The project comprises the estimation of three options of and the following summarises this indicative Cost Estimate:

| Project Component | Total Estimated Cost \$ (plus GST) |
|---|--|
| Light Rail Transit 2 tunnel Option (LRT) | \$938,000,000 (plus GST) |
| Bus Rapid Transit (BRT) | \$207,112,000 (plus GST) |
| Bus Priority (BP) | \$58,568,000 (plus GST) |

Our key assumptions are:

The cost estimates are indicative only and are based on design information available at the time and where available bench mark cost data has been available. We note that while we have benched marked other projects the data varies greatly depending on the individual projects therefore has a significant margin of error.

The Estimates provided should only be used for evaluation of the indicative likely cost outcome of the individual options identified within the report.

We note the following specific Inclusions for the options priced:

- LRT has included scope for:
 - Concrete slab beneath all tracks, this requiring the movement of existing services outside this concrete corridor.
 - 2No 6.5m diameter rail tunnels located adjacent to Mount Victoria Road Tunnels.
 - Upgrading existing power to existing substations, the extent of this has to be confirmed.
 - 22No Light Rail Rolling Stock
 - Altering and extending existing Real Time displays to new route
 - Tram Depot
 - Control Centre
 - Budget allowance for strengthening the State Insurance Tower basement roof on Willis Street, scope still to be defined.
- BRT has included scope for:
 - Assumed as not requiring a concrete slab on the bus route, this therefore does not require the
 alteration of existing services from these routes unless for specific road alterations including alterations
 to junctions.
 - for 40No higher capacity busses
 - altering and extending existing Real Time displays to new route
- BP has included scope for:
 - Assumed as not requiring a concrete slab on the bus route, this therefore does not require the
 alteration of existing services from these routes unless for specific road alterations including alterations
 to junctions.
 - Route extension to Constable street, including carriageway widening

We note the following specific Exclusions for the options priced:

- General Assumptions Exclusion
 - Options are allowed within the existing carriageways unless otherwise noted within the corridor definitions identified.
 - No land acquisition or demolition costs of existing structures have been included
 - Existing Bus Power Lines have been removed by others
 - Alterations to roads, signage, services outside the scope identified which may be indirectly impacted by the options
 - GST
 - Escalation from May 2013
- LRT Excludes the following:
 - Refer General Assumption Exclusions above.
 - Ticketing and Fare collection systems
- BRT Excludes the following:
 - · Refer General Assumption Exclusions above.
 - Ticketing and Fare collection systems
 - Victoria Tunnel, assumed use of existing and new road tunnels by others
 - Concrete Slab below carriageway
 - Relocation of existing services in roads unless required by junction alterations or road widening
 - Power upgrade to existing substations
 - · Bus depots, reuse of existing assumed
 - Control Centre, reuse of existing assumed
- BP Excludes the following:
 - Refer General Assumption Exclusions above.
 - Adelaide Road
 - Ticketing and Fare collection systems
 - Victoria Tunnel, assumed use of existing and new road tunnels by others
 - Concrete Slab below carriageway
 - Relocation of existing services in roads unless required by junction alterations or road widening
 - Power upgrade to existing substations
 - Upgrade to existing bus power lines
 - Bus depots, reuse of existing assumed
 - Control Centre, reuse of existing assumed
 - Bus stock, reuse of existing or new bus stock by others

References:

Refer to other sections in this Report for important detail and information concerning the following:

- Basis of Report Inclusions and Exclusions, Track Schedule, Corridor Width Report
- Risk Analysis comprising market conditions, contingency assessment, sensitivities

1.0 Indicative Cost Plan

The following summary provides a breakdown of the current Indicative Cost Estimate.

| Option: | Name: | Km: | Est Cost | Cost /Km |
|---------|--|---------|---------------|--------------|
| LRT | 2 Tunnel Option | | | |
| | Wellington (Central) PT Spine | 6.9 Km | \$204,811,000 | \$29,683,000 |
| | Wellington (Southern) PT Spine | 1.3 Km | \$52,659,000 | \$40,507,000 |
| | Wellington (Eastern) PT Spine | 2.5 Km | \$37,661,000 | \$15,064,000 |
| | General Allowances | | \$486,536,000 | |
| | Design and Construction Contingencies | 20% | \$156,333,000 | |
| | Total Construction Cost | 10.7 Km | \$938,000,000 | \$87,663,000 |
| | Cost Excluding Victoria Rail Tunnels (incl. Contingency) | 9.9 Km | \$558,391,000 | \$56,400,000 |
| BRT | | | | |
| | Wellington (Central) PT Spine | 5.7 Km | \$79,844,000 | \$14,008,000 |
| | Wellington (Southern) PT Spine | 1.3 Km | \$29,384,000 | \$22,603,000 |
| | Wellington (Eastern) PT Spine | 2.5 Km | \$25,566,000 | \$10,226,000 |
| | General Allowances | | \$37,800,000 | |
| | Design and Construction Contingencies | 20% | \$34,519,000 | |
| | Total Construction Cost | 9.5 Km | \$207,113,000 | \$21,801,000 |
| BP | | | | |
| | Wellington (Central) PT Spine | 5.7 Km | \$16,149,000 | \$2,833,000 |
| | Wellington (Southern) PT Spine | 1.3 Km | \$5,946,000 | \$4,574,000 |
| | Wellington (Southern) PT Spine Constable | 0.8 Km | \$7,650,000 | \$9,562,500 |
| | Wellington (Eastern) PT Spine | 2.5 Km | \$14,062,000 | \$5,625,000 |
| | General Allowances | | \$5,000,000 | |
| | Design and Construction Contingencies | 20% | \$9,761,000 | |
| | Total Construction Cost | 10.3 Km | \$58,568,000 | \$5,686,000 |

2.0 Benchmarking

Benchmarking for the options is available through many sources, where available this has been identified for comparison with the options being reviewed within this report.

The benchmark data available in the main however is unreliable due to the many variances within the benchmark schemes; the location and works required in order to provide the specific service for any particular city or location having a wide variance within these projects.

3.0 Sensitivity Analysis

Benchmarking this projects cost estimate against comparable other projects indicates this project has a high comparable role in some areas.

4.0 Design and Construction Risk Analysis

Project estimates need to be regarded as having a range of accuracies depending on many factors. These include the degree of resolution of design and specification, resolved scope and market conditions and predictability. In this Report Davis Langdon highlights a number of project risks but these are not exhaustive. Our client is advised to discuss project risks with Davis Langdon and with other project parties to form their own view of risk and appropriate mitigation strategies.

A number of key issues however have been identified which carry a significant risk within any particular project, these being:

- Infrastructure upgrades
- Infrastructure alterations/relocation
- Unforseen engineering requirements/complexity
- Unforseen construction requirements/complexity
- Changing economic conditions/escalation
- Changing political requirements local and national
- Changing planning/consent requirements
- Environmental issues
- Procurement route

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | Estimate LRT Centra | Estimate Summary LRT Central Alionment | | | Davis Langdon |
|---------------------------------------|---|---------------------|---|-------|----------------|---------------|
| No. | Description | Quantity | Unit | Rate | Amount | Notes |
| | LRT Central Alignment | | | | | |
| _ | Wellington (Central) PT Spine | | | | 204,811,456.00 | |
| 7 | Newtown (Southern) PT Spine | | | | 52,659,136.00 | |
| က | Kilbirnie (Eastern) PT Spine | | | | 37,660,723.20 | |
| | Sub Total | | | | 295,131,315.20 | |
| 4 | General Allowances | | | | 486,536,000.00 | |
| 2 | Design And Construction Contingencies | | | 20.00 | 156,333,463.04 | |
| | | | | | | |
| | | | | | | |
| DL Ref. 6 | DL Ref. 60222076 | Printed 3 | Printed 30 May 2013 | | | Page 1 of 1 |

| Proj Esti Pric | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date:25/03/2013 | LRT Central Alignment | al Alignme | ıt | | Davis Langdon An AECOM Company |
|----------------------|--|-----------------------|-------------|--------------|---------------|--------------------------------|
| _ | No. Description | Quantity | Unit | Rate | Amount | Notes |
| | Wellington (Central) PT Spine | | | | | |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| | 1 Uplifting Existing Road surfaces, base course, new 450 thick concrete slab, reinforcement 150kg/m3, blinding, bedding slab | 22,092 | m2 | 00.009 | 14,580,720.00 | |
| | 2 Demolish existing concrete tram tracks (33% assumed existing) | 7,290 | m2 | 50.00 | 364,500.00 | |
| | 3 Allowance for strengthening to State Tower Basement roof slab | ~ | Item | 1,000,000.00 | 1,000,000.00 | |
| | Traffic Management, Road Alterations | | | | | |
| | 4 Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed track and changes to traffic and pedestrian control, to Major Road Junction | on . | °Z | 750,000.00 | 6,750,000.00 | |
| | Shlowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed track and changes to traffic and pedestrian control, to Minor Road Junction | 10 | S Z | 600,000.00 | 00.000,000,0 | |
| | 6 Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed track and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | 23 | o Z | 300,000.00 | 00.000,006,0 | |
| | 7 Reallignment of existing reserve between Molesworth St and Bowen St | ~ | Item | 350,000.00 | 350,000.00 | |
| | 8 Alteration of Featherston pavement and road layout | - | Item | 350,000.00 | 350,000.00 | |
| | 9 Allowance for alterations to street signage | 7,871 | E | 100.00 | 787,100.00 | |
| DL R | DL Ref. 60222076 | Printed 30 | 30 May 2013 | | | Page 1 of 10 |

| Project: Estimate Price Dat | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date:25/03/2013 | LRT Central Alignment | Alignmen | | | Davis Langdon An AECOM COMPANY |
|-----------------------------------|---|-----------------------|-------------|------------|---------------|--------------------------------|
| Š. | Description | Quantity | Unit | Rate | Amount | Notes |
| 10 | 10 Allowance for alterations to road markings | 7,871 | E | 125.00 | 983,875.00 | |
| - | Allowance for alterations to street lighting | 7,871 | Ε | 300.00 | 2,361,300.00 | |
| 12 | Allowance for 10% of road/pavement fencing | 736 | Ε | 1,000.00 | 736,000.00 | |
| 13 | Allowance for 10% of road/pavement fencing to depot | 220 | Ε | 1,000.00 | 220,000.00 | |
| | Utility Diversions/new services | | | | | |
| 4 | Alter Existing Services from Conc slab areas, including electricity, gas, water, sewer, surface water, fibre optics | 5,671 | E | 5,200.00 | 29,489,200.00 | |
| 15 | Alter Existing Services from Conc slab areas, including electricity, gas, water, sewer, surface water, fibre optics, for depot route to site only | 1,200 | Ε | 5,200.00 | 6,240,000.00 | |
| 16 | Allowance for new drainage to light rail | 7,364 | E | 315.00 | 2,319,660.00 | |
| 17 | Allowance for new drainage to light rail to depot | 2,200 | Ε | 315.00 | 693,000.00 | |
| | Allowance for alteration to Kent/Cambridge Terrace pumping stations | 2 | Š | 500,000.00 | 1,000,000.00 | |
| | Trackwork/Power Supply/Signalling/Control Centres | | | | | |
| 19 | LRT rails, power reticulation | 7,364 | E | 3,200.00 | 23,564,800.00 | |
| 20 | LRT rails, power reticulation, to and inside depot | 2,200 | E | 3,200.00 | 7,040,000.00 | |
| 21 | Installation of conduits and pits along proposed track allignment to depot | 2,200 | Ε | 1,000.00 | 2,200,000.00 | |
| 22 | Allowance for piers and pads for track side infrastructure | 7,364 | E | 900.00 | 6,627,600.00 | |
| 23 | Allowance for piers and pads for track side infrastructure to depot | 2,200 | Ε | 00.006 | 1,980,000.00 | |
| DL Ref: | DL Ref: 60222076 | Printed 30 | 30 May 2013 | | | Page 2 of 10 |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | LRT Central Alignment | l Alignme | ut . | | Davis Langdon |
|---------------------------------------|--|-----------------------|-------------|---------------|----------------|---------------|
| No. | . Description | Quantity | Unit | Rate | Amount | Notes |
| 24 | Installation of conduits and pits along proposed track allignment | 7,364 | E | 1,000.00 | 7,364,000.00 | |
| | Stations/Ticketing and Fare Collection Systems | | | | | |
| 25 | Interchanges including access ramps, canopies (ticket system excluded) | 7 | Š | 330,000.00 | 00.000.009 | |
| 26 | Line stations including access ramps, canopies (ticket system excluded) | ო | Š | 200,000.00 | 600,000.00 | |
| 27 | 7 Allowance for Bus Stop Alterations | 17 | ž | 30,000.00 | 510,000.00 | |
| *** | Road/Pavements/Landscaping | | | | | |
| 28 | Relay surface to roads adjacent to concrete slab | 28,703 | m2 | 240.00 | 6,888,720.00 | |
| 29 | Allowance for general landscaping to median/reserves | 7,871 | E | 125.00 | 983,875.00 | |
| | General Items | | | | | |
| 30 | Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection | - | Item | 20,464,600.00 | 20,464,600.00 | |
| 31 | Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | | 28.00 | 44,802,506.00 | |
| | | | | | 204,811,456.00 | |
| | Newtown (Southern) PT Spine | | | | | |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| 32 | Uplifting Existing Road surfaces, base course, new 450 thick concrete slab, reinforcement 150kg/m3, blinding, bedding slab | 7,002 | m2 | 00.009 | 4,621,320.00 | |
| DL Ref. | DL. Ref. 60222076 | Printed 30 | 30 May 2013 | | | Page 3 of 10 |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | LRT Central Alignment | Alignmen | | Account of the state of the sta | Davis Langdon An AECOM Company |
|---------------------------------------|--|-----------------------|-------------|------------|--|--------------------------------|
| S | Description | Quantity | Unit | Rate | Amount | Notes |
| 33 | Demolish existing concrete tram tracks (33% assumed existing) | 2,311 | m2 | 50.00 | 115,550.00 | |
| | Traffic Management, Road Alterations | | | | | |
| 34 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed track and changes to traffic and pedestrian control, to Major Road Junction | 4 | °Z | 750,000.00 | 3,000,000.00 | |
| 35 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed track and changes to traffic and pedestrian control, to Minor Road Junction | 7 | °Z | 600,000.00 | 1,200,000.00 | |
| 36 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed track and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | = | °Z | 300,000.00 | 3,300,000.00 | |
| 37 | Widen existing road of Adelaide Rd and Riddford Rd Hospital Entrance | 555 | m2 | 00.009 | 366,300.00 | |
| 38 | Allowance for alterations to street signage | 1,324 | Ε | 100.00 | 132,400.00 | |
| 39 | Allowance for alterations to road markings | 1,324 | E | 125.00 | 165,500.00 | |
| 40 | Allowance for alterations to street lighting | 1,324 | Ε | 300.00 | 397,200.00 | |
| 4 | Allowance for 10% of road/pavement fencing | 233 | E | 1,000.00 | 233,000.00 | |
| | Utility Diversions/new services | | | | | |
| 42 | Alter Existing Services from Conc slab areas, including electricity, gas, water, sewer, surface water, fibre optics | 1,324 | E | 5,200.00 | 6,884,800.00 | |
| 43 | Allowance for new drainage to light rail | 1,324 | Ε | 315.00 | 417,060.00 | |
| DL Ref. | DL Ref. 60222076 | Printed 30 | 30 May 2013 | | | Page 4 of 10 |

| Project : Estimate Price Dat | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | LRT Central Alignment | l Alignme | ŧ | | Davis Langdon |
|------------------------------------|---|-----------------------|---------------------|---|-----------------------|---------------|
| ž | No. Description | Quantity | Unit | Rate | Amount | Notes |
| | Trackwork/Power Supply/Signalling/Control Centres | | | | | |
| 4 | 44 LRT rails, power reticulation | 2,334 | Ε | 3,200.00 | 7,468,800.00 | |
| 4 | 45 Installation of conduits and pits along proposed track allignment | 2,334 | E | 1,000.00 | 2,334,000.00 | |
| 4 | 46 Allowance for piers and pads for track side infrastructure | 2,334 | Ε | 900.00 | 2,100,600.00 | |
| | Stations/Ticketing and Fare Collection Systems | | | | | |
| 4 | htterchanges including access ramps, canopies (ticket system excluded) | _ | °Z | 330,000.00 | 330,000.00 | |
| 4 | Line stations including access ramps, canopies (ticket system excluded) | - | Š | 200,000.00 | 200,000.00 | |
| 4 | 49 Allowance for Bus Stop Alterations | თ | Š | 30,000.00 | 270,000.00 | |
| | Road/Pavements/Landscaping | | | | | |
| | 50 Relay surface to roads adjacent to concrete slab | 16,648 | m2 | 240.00 | 3,995,520.00 | |
| 2 | 51 Allowance for general landscaping to median/reserves | 1,324 | E | 125.00 | 165,500.00 | |
| | General Items | | | | | |
| | Allowance for Temporary Traffic Management during construction works, including pedestrian and roard protection | - | ltem | 3,442,400.00 | 3,442,400.00 | |
| ۍ س | 53 Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | | 28.00 | 11,519,186.00 | |
| | | | | | 52,659,136.00 | |
| | Kilbirnie (Eastern) PT Spine | | | | | |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| DL Re | DL Ref. 60222076 | Printed 30 | Printed 30 May 2013 | a managan diga pingan da managan | e systematics delain. | Page 5 of 10 |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | LRT Central Alignment | l Alignmen | = | | Davis Langdon An AECOM COmpany |
|---------------------------------------|---|-----------------------|-------------|------------|--------------|--------------------------------|
| ΝΘ. | Description | Quantity | Unit | Rate | Amount | Notes |
| 54 | Uplifting Existing Road surfaces, base course, new 450 thick concrete slab, reinforcement 150kg/m3, blinding, bedding slab, Wellington Rd to Evans Bay Parade | 762 | m2 | 00.099 | 502,920.00 | |
| 55 | Uplifting Soft Landscape surfaces, new 450 thick concrete slab, reinforcement 150kg/m3, blinding, bedding slab, Tunnel to Wellington Rd (No demolitions of Existing Buildings Included) | 6,720 | m2 | 645.00 | 4,334,400.00 | |
| 56 | Demolish existing concrete tram tracks (33% assumed existing) | 251 | m2 | 50.00 | 12,550.00 | |
| 22 | Retaining wall to Ruahine St | 993 | E | 1,000.00 | 993,000.00 | |
| | Traffic Management, Road Alterations | | | | | |
| 28 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed track and changes to traffic and pedestrian control, to Major Road Junction | - | o Z | 750,000.00 | 750,000.00 | |
| 29 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed tack and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | 0 | °Z | 300,000.00 | 000'000'009 | |
| 09 | Allowance for alterations to street signage to Kilbirnie Crescent | 451 | Ε | 100.00 | 45,100.00 | |
| 61 | Widen existing road of Kilbirnie Crescent | 06 | m2 | 326.00 | 29,340.00 | |
| 62 | Allowance for alterations to road markings to Kilbirnie Crescent | 451 | E | 125.00 | 56,375.00 | |
| 63 | Allowance for alterations to street lighting | 1,698 | E | 300.00 | 509,400.00 | |
| 64 | Allowance for 10% of road/pavement fencing | 170 | Ε | 1,000.00 | 170,000.00 | |
| DL Ref: | DL Ref: 60222076 | Printed 30 | 30 May 2013 | | | Page 6 of 10 |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date:25/03/2013 | LRT Central Alignment | I Alignmer | ıt | | Davis Langdon An AECOM Company | |
|---------------------------------------|---|---|-------------|------------|--------------|--------------------------------|-------|
| No. | Description | Quantity | Unit | Rate | Amount | Notes | |
| | Utility Diversions/new services | | | | | | |
| 65 | Alter Existing Services from Conc slab areas, including electricity, gas, water, sewer, surface water, fibre optics | 451 | Ε | 5,200.00 | 2,345,200.00 | | |
| 99 | Alter Existing Services from soft landscape areas | 1,247 | E | 2,000.00 | 2,494,000.00 | | |
| 29 | Allowance for new drainage to light rail | 2,691 | Ε | 315.00 | 847,665.00 | | |
| | Trackwork/Power Supply/Signalling/Control Centres | *************************************** | | | | | |
| 89 | LRT rails, power reticulation | 2,691 | Ε | 3,200.00 | 8,611,200.00 | | |
| 69 | Installation of conduits and pits along proposed track allignment | 2,691 | Ε | 1,000.00 | 2,691,000.00 | | |
| 70 | Allowance for piers and pads for track side infrastructure | 2,691 | ٤ | 900.00 | 2,421,900.00 | | |
| | Stations/Ticketing and Fare Collection Systems | | | | | | |
| 71 | Interchanges including access ramps, canopies (ticket system excluded) | - | Š | 330,000.00 | 330,000.00 | | |
| 72 | Line stations including access ramps, canopies (ticket system excluded) | - | °Z | 200,000.00 | 200,000.00 | | |
| 73 | Allowance for Bus Stop Alterations | 7 | Š | 30,000.00 | 00.000,09 | | |
| | Road/Pavements/Landscaping | | | | | | |
| 74 | Relay surface to roads adjacent to concrete slab | 2,526 | m2 | 240.00 | 606,240.00 | | |
| 75 | Allowance for general landscaping to median/reserves | 254 | E | 125.00 | 31,750.00 | | |
| | General Items | | | | | | |
| | | | | | | | |
| DL Ref: (| DL Ref. 60222076 | Printed 30 | 30 May 2013 | | | Page 7 of 10 | of 10 |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | LRT Central Alignment | I Alignme | # | | Davis Langdon An AECDIM COMPANY |
|---------------------------------------|--|-----------------------|-------------|--------------------|----------------|---------------------------------|
| Š. | Description | Quantity | Unit | Rate | Amount | Notes |
| 92 | Allowance for Temporary Traffic Management during construction works, including pedestrian and roard protection | - | ltem | 780,400.00 | 780,400.00 | |
| 77 | Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | | 28.00 | 8,238,283.20 | |
| | | | | | 37,660,723.20 | |
| | General Allowances | | | | | |
| | Power Upgrade | | | | | |
| 78 | Power Upgrade to existing substations | - | ltem | 45,000,000.00 | 45,000,000.00 | |
| | Real Time Alteration/Extension | | | | | |
| 79 | Alteration to existing Real Time installations | _ | Item | 5,000,000.00 | 5,000,000.00 | |
| | Building Structures | | | | | |
| 80 | Tram Depots | ~ | Item | 18,640,000.00 | 18,640,000.00 | |
| 8 | Control Centre allowance for 500m2 building, 250m2 control rooms, 250m2 ancillary space | | Item | 4,000,000.00 | 4,000,000.00 | |
| | Rolling Stock | | 110 2 300 | | | |
| 82 | Light Rail Rolling Stock | 22 | Š | 4,000,000.00 | 88,000,000.00 | |
| | Victoria Tunnel | | | | | |
| 83 | Allowance for road header tunnel, 2no 6.5m OD, 794m long, including contingencies, Fees, rails and necessary services, cross tunnels | | Item | 316,296,000. 00 | 316,296,000.00 | |
| | Design Fees | | | | | |
| 84 | 84 Detail Design and Supervision | - | Item | 9,600,000.00 | 9,600,000.00 | |
| DL Ref. | DL Ref: 60222076 | Printed 3 | 30 May 2013 | | | Page 8 of 10 |

| Davis Langdon | es | | Page 9 of 10 |
|---|-------------|----------------|--|
| Davis | Notes | | |
| | Amount | 486,536,000.00 | |
| # | Rate | | |
| al Alignmer | Unit | | Printed 30 May 2013 |
| LRT Central Alignment | Quantity | | Printed 3 |
| itudy | Description | | The second secon |
| Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | Desci | | 222076 |
| Project : Estimate Price Date | No. | | DL Ref. 60222076 |

| Project : Estimate Price Date | Project: Wellington Public Spine Study Estimate: Version LRT, Revision A Price Date: 25/03/2013 | LRT Centra | LRT Central Alignment | | | Davis Langdon An AECOM Company |
|-------------------------------------|---|------------|-----------------------|------|---|--------------------------------|
| Š. | Description | Quantity | Unit | Rate | Amount | Notes |
| | 부 | Total | | | 781,667,315.20 | |
| DL Ref: 60222076 | 222076 | Printed 3 | 30 May 2013 | | A.A.A. A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A. | Page 10 of 10 |

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| Davis Langdon An AECOM Company | | | Page |
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| Davi | | | |
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| | Amount | 03.20 | |
| The state of the s | An | 614,154,403.20 | |
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| ment | Unit | | 213 |
| al Align | ā | | Printed 30 May 2013 |
| LRT Central Alignment | Quantity | | Printed |
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| | | Total | |
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| tunnel | | | |
| Study - Single | Description | | |
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| on Public RT, Rev 3 | | | |
| Project: Wellington Public Spine Study Estimate: Version LRT, Revision B - Single tunnel Price Date: 25/03/2013 | | | 920 |
| ct: \ late: \ Date:2 | 3 | | DL Ref: 60222076 |
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| Estimate: Price Date | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date:25/03/2013 | Estimate 8 | Estimate Summary | | | Davis Langdon |
|-------------------------|---|---------------------|------------------|-------|----------------|---------------|
| No. | Description | Quantity | Unit | Rate | Amount | Notes |
| | BRT Central Alignment | | | | | |
| | Wellington (Central) PT Spine | | | | 79,843,520.00 | |
| 7 | Newtown (Southern) PT Spine | | | | 29,383,910.40 | |
| က | Kilbirnie (Eastern) PT Spine | | | | 25,566,315.52 | |
| | Sub Total | | | | 134,793,745.92 | |
| 4 | General Allowances | | | | 37,800,000.00 | |
| 5 | Design And Construction Contingencies | | | 20.00 | 34,518,749.18 | |
| | | | | | 707,112,435.10 | |
| | | | | | | |
| L Ref: | DL Ref. 60222076 | Printed 30 May 2013 | May 2013 | | | Page 1 of 1 |

| Project : Estimate Price Dat | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date:25/03/2013 | BRT Central Alignment | al Alignme | ŧ | | Davis Langdon An AECOM Company |
|------------------------------------|--|-----------------------|----------------|--|--------------|--|
| No. | Description | Quantity | Unit | Rate | Amount | Notes |
| | Wellington (Central) PT Spine | | | | | And the second s |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| _ | No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| Maria and a | Traffic Management, Road Alterations | | | | | |
| | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Major Road Junction | თ | S N | 750,000.00 | 6,750,000.00 | |
| · · · | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Minor Road Junction | 10 | S N | 000'000'00 | 6,000,000.00 | |
| | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | 23 | ⁸ Z | 300,000.00 | 00.000,000,0 | |
| ų) | Reallignment of existing reserve between Molesworth St and Bowen St | - | Item | 350,000.00 | 350,000.00 | |
| Ψ | 6 Alteration of Featherston pavement and road layout | | Item | 350,000.00 | 350,000.00 | |
| | 7 Allowance for alterations to street signage | 5,671 | Ε | 100.00 | 567,100.00 | |
| ∞ | Allowance for alterations to road markings | 5,671 | ٤ | 125.00 | 708,875.00 | |
| <u>ი</u> | Allowance for alterations to street lighting | 5,671 | E | 300.00 | 1,701,300.00 | |
| 10 | Allowance for 10% of road/pavement fencing | 267 | ε | 1,000.00 | 567,000.00 | |
| | | 1000 | | | | |
| DL Ref. | DL Ref. 60222076 | Printed 3 | 30 May 2013 | The state of the s | | Page 1 of 8 |

| Proj Esti Pric | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date: 25/03/2013 | BRT Central Alignment | Alignmer | + | | Davis Langdon An AECOM Company | |
|----------------------|---|-----------------------|---------------------|--------------|---------------|--------------------------------|----------|
| | No. Description | Quantity | Unit | Rate | Amount | Notes | |
| | Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specificaly altered by road alterations | | | | | | |
| | Alter Existing Services including electricity, gas, water, sewer, surface water, fibre optics to Courtenay place / Kent Terrace Junction | - | °Z | 1,300,000.00 | 1,300,000.00 | | |
| | Alter Existing Services including electricity, gas, water, sewer, surface water, fibre optics for reallignment of existing reserve between Molesworth St and Bowen St | | Š. | 780,000.00 | 780,000.00 | | |
| | Alter Existing Services including electricity, gas, water, sewer, surface water, fibre optics for reallignment of existing reserve between Fetherston St junction | - | Š. | 780,000.00 | 780,000.00 | | |
| | 14 Allowance for alteration to Kent/Cambridge Terrace pumping stations | ~ | Š | 500,000.00 | 1,000,000.00 | | |
| | Signalling/Controls | | | | | | |
| **** | 15 Telecoms and signaling | 7,364 | E | 1,500.00 | 11,046,000.00 | | |
| | 16 Installation of conduits and pits along proposed road for controls wiring | 7,364 | Ε | 1,000.00 | 7,364,000.00 | | |
| | Stations/Ticketing and Fare Collection Systems | | | | | | |
| | 17 Allowance for Bus Stop Alterations | 17 | No | 30,000.00 | 510,000.00 | | |
| | 18 Allowance for new Bus Stops | လ | S ₀ | 50,000.00 | 250,000.00 | | |
| | Road/Pavements/Landscaping | | | | | | |
| | 19 Allowance for general landscaping to median/reserves | 5,671 | Ε | 125.00 | 708,875.00 | 1 | |
| | General Items | | | | | | |
| DL F | DL Ref. 60222076 | Printed 30 | Printed 30 May 2013 | | | Page 2 of 8 | e 2 of 8 |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date:25/03/2013 | BRT Central Alignment | al Alignme | nt | | Davis Langdon An AECOM Company |
|---------------------------------------|--|-----------------------|--|--|--|--|
| No. | Description | Quantity | Unit | Rate | Amount | Notes |
| 20 | Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection | - | ltem | 14,744,600.00 | 14,744,600.00 | |
| 27 | Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | | 28.00 | 17,465,770.00 | |
| | | | | | 79,843,520.00 | |
| | Newtown (Southern) PT Spine | | S. B. A. P. C. | | | - The second sec |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| 22 | No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| | Traffic Management, Road Alterations | | | | | |
| 23 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Major Road Junction | 4 | Š | 750,000.00 | 3,000,000.00 | |
| 24 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Minor Road Junction | 7 | o Z | 00.000.00 | 1,200,000.00 | |
| 25 | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | £ | S Z | 300,000.00 | 3,300,000.00 | |
| 26 | Widen existing road of Adelaide Rd and Riddford Rd Hospital Entrance | 555 | m2 | 326.00 | 180,930.00 | |
| 27 | Allowance for alterations to street signage | 2,334 | 8 | 100.00 | 233,400.00 | |
| DL Ref. | DL Ref: 60222076 | Printed 30 | 30 May 2013 | The second secon | - Company Comp | Page 3 of 8 |

| Project : Estimate Price Date | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date:25/03/2013 | BRT Central Alignment | I Alignme | ŧ | | Davis Langdon An AECOM Company |
|--|---|-----------------------|-------------|--------------|--------------|--------------------------------|
| Š. | Description | Quantity | Unit | Rate | Amount | Notes |
| 28 | Allowance for alterations to road markings | 2,334 | Ε | 125.00 | 291,750.00 | |
| 29 | Allowance for alterations to street lighting | 2,334 | E | 300.00 | 700,200.00 | |
| 30 | Allowance for 10% of road/pavement fencing | 233 | Ε | 1,000.00 | 233,000.00 | |
| ······································ | Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specificaly altered by road alterations | | | | | |
| 33 | Alter Existing Services for road widening to Adelaide Rd and Hospital Entrance, including electricity, gas, water, sewer, surface water, fibre optics | 770 | ٤ | 5,200.00 | 4,004,000.00 | |
| | Signalling/Controls | | - | | | |
| 32 | Telecoms and signalling | 2,334 | E | 1,500.00 | 3,501,000.00 | |
| 33 | Installation of conduits and pits along proposed road for controls wiring | 2,334 | E | 1,000.00 | 2,334,000.00 | |
| | Stations/Ticketing and Fare Collection Systems | | | | | |
| 34 | Allowance for new Bus Stops | 2 | Š | 50,000.00 | 100,000.00 | |
| 35 | Allowance for Bus Stop Alterations | 6 | S | 30,000.00 | 270,000.00 | |
| | Road/Pavements/Landscaping | | | | | |
| 36 | Allowance for general landscaping to median/reserves | 1,324 | E | 125.00 | 165,500.00 | |
| | General Items | | | | | |
| 37 | Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection | - | Item | 3,442,400.00 | 3,442,400.00 | |
| DL Ref. | DL Ref. 60222076 | Printed 3 | 30 May 2013 | | | Page 4 of 8 |

| Pro Esti Pric | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date:25/03/2013 | BRT Centr | BRT Central Alignment | t. | | Davis Langdon An AECOM Company |
|---------------------|---|-----------|-----------------------|---|---------------|--------------------------------|
| | No. Description | Quantity | Unit | Rate | Amount | Notes |
| | 38 Allowance for General Preliminaries, contractors facilities, on site overheads. | | | 28.00 | 6,427,730.40 | |
| | | | | | 29,383,910.40 | |
| | Kilbirnie (Eastern) PT Spine | | | V-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | |
| | 39 No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| | 40 Uplifting Soft Landscape surfaces, new 450 thick concrete slab, reinforcement 150kg/m3, blinding, bedding slab, from existing Tunnel to Wellington Rd (No demolitions of Existing Buildings Included) | 6,720 | m2 | 645.00 | 4,334,400.00 | |
| | 41 Retaining wall to Ruahine St | 666 | Ε | 1,000.00 | 993,000.00 | |
| | Traffic Management, Road Alterations | | | | | |
| | Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Major Road Junction | - | °Z | 750,000.00 | 750,000.00 | |
| | 43 Allowance for re-configuring existing traffic junctions, strengthening of pavements surrounding the proposed route and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | 7 | o Z | 300,000.00 | 600,000.00 | |
| | 44 Widen existing road of Kilbirnie Crescent | 1,579 | m2 | 326.00 | 514,754.00 | |
| | 45 Allowance for alterations to street signage to Kilbirnie Crescent | 451 | ٤ | 100.00 | 45,100.00 | |
| DL A | DL Ref. 60222076 | Printed 3 | 30 May 2013 | | | Page 5 of 8 |

| Project : Estimate Price Dat | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date: 26/03/2013 | BRT Central Alignment | I Alignmen | | | Davis Langdon An AECOM Company |
|--|---|-----------------------|-------------|-----------|------------------------|--------------------------------|
| Š. | Description | Quantity | Unit | Rate | Amount | Notes |
| 46 | Allowance for alterations to road markings to Kilbirnie Crescent | 451 | E | 125.00 | 56,375.00 | |
| 47 | Allowance for alterations to street lighting | 1,698 | E | 300.00 | 509,400.00 | |
| 48 | Allowance for 10% of road/pavement fencing | 170 | ٤ | 1,000.00 | 170,000.00 | |
| | Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specificaly altered by road alterations | | | | | |
| 49 | Alter Existing Services for road widening to Kilbirnie Crescent, including electricity, gas, water, sewer, surface water, fibre optics | 451 | E | 2,000.00 | 902,000.00 | |
| 20 | Alter Existing Services from soft landscape areas | 1,247 | E | 2,000.00 | 2,494,000.00 | |
| 51 | Allowance for new drainage to new road finish | 1,247 | Ε | 315.00 | 392,805.00 | |
| ······································ | Signalling/Controls | | | | | |
| 52 | Telecoms and signaling | 2,691 | Ε | 1,500.00 | 4,036,500.00 | |
| 53 | Installation of conduits and pits along proposed road for controls wiring | 2,691 | E | 1,000.00 | 2,691,000.00 | |
| | Stations/Ticketing and Fare Collection Systems | | | | | |
| 54 | Allowance for Bus Stop Alterations | Ø | No | 30,000.00 | 60,000.00 | |
| 55 | Allowance for new Bus Stops | 2 | No | 50,000.00 | 100,000.00 | |
| | Road/Pavements/Landscaping | | | | AND THE PARTY SERVICES | |
| 56 | Allowance for general landscaping to median/reserves | 254 | Ε | 125.00 | 31,750.00 | |
| | General Items | | | | | |
| DL Ref: | DL Ref. 60222076 | Printed 3 | 30 May 2013 | | | Page 6 of 8 |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date:25/03/2013 | BRT Central Alignment | al Alignme | nt | | Davis Langdon |
|---------------------------------------|--|-----------------------|--|---|---------------|---------------|
| No. | Description | Quantity | Unit | Rate | Amount | Notes |
| 57 | Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection | | Item | 1,292,600.00 | 1,292,600.00 | |
| 58 | Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | | 28.00 | 5,592,631.52 | |
| | | | | | 25,566,315.52 | |
| | General Allowances | Prince and the con- | The state of the s | *************************************** | | |
| | Power Upgrade | | | | | |
| 29 | Power Upgrade to existing substations, assume battery operated bus, no upgrade included | | Note | | | |
| | Real Time Alteration/Extension | | | | | |
| 09 | Alteration to existing Real Time installations | | ltem | 5,000,000.00 | 5,000,000.00 | |
| | Building Structures | | | | | |
| 61 | Bus Depots not required use of existing | | Note | | | |
| 62 | Control Centre not required use of existing | | Note | | | |
| · Mayor | Rolling Stock | | | | | |
| 63 | Higher Capacity Bus Stock | 40 | Š | 700,000.00 | 28,000,000.00 | |
| | Design Fees | | | | | |
| 64 | Detail Design and Supervision | - | Item | 4,800,000.00 | 4,800,000.00 | |
| | | | | | 37,800,000.00 | |
| | | | | | | |
| DL Ref: | DL Ref. 60222076 | Printed 3 | 30 May 2013 | | | Page 7 of 8 |

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| | ınt | .92 | |
| | Amount | 3,745 | |
| - | | 172,593,745.92 | |
| | Rate | | |
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| BRT Central Alignment | Unit | | Printed 30 May 2013 |
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| Project: Wellington Public Spine Study Estimate: Version BRT, Revision B - 30 May Price Date: 25/03/2013 | | | 920 |
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| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version Bus Priority, Revision B - 30 May Price Date: 25/03/2013 | Estimate Summary | Summary | | | Davis Langdon | |
|---------------------------------------|---|---------------------|----------------|---|--|--|-------------|
| No. | Description | Ous ringing cer | Illai Ailgiiii | Rato | †anom V | Notes | |
| | Bus Priority Central A | G | | | | NOICE | |
| *** | Wellington (Central) PT Spine | | | | 16,148,448.00 | | |
| 2 | Newtown (Southern) PT Spine | | | | 5,945,600.00 | | |
| ო | Constable Street (Sourthern) PT | | | | 7,650,293.76 | | |
| 4 | Kilbirnie (Eastern) PT Spine | | | | 14,062,044.16 | | |
| | Sub Total | | | | 43,806,385.92 | | |
| 2 | General Allowances | | | | 5,000,000.00 | | |
| 9 | Design And Construction Contingencies | | | 20.00 | 9,761,277.18 | | |
| | | | | | 58,567,663.10 | | |
| DL Ref: (| DL Ref. 60222076 | Printed 30 May 2013 | May 2013 | | The state of the s | Page | Page 1 of 1 |
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| 2 - 2 | Wellington (Central) PT Spine Site Preparation Works (Within Existing Carriagway) | | 1111 | 7-7-0 | | |
|-----------|---|----------|------|------------|--------------|-------|
| | Site Preparation Works (Within Existing Carriagway) | Quantity | Out | Kate | Amount | Notes |
| | | | | | | |
| | No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| | Traffic Management, Road Alterations | | | | | |
| | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Major Road Junction | 6 | °Z | 300,000.00 | 2,700,000.00 | |
| <u></u> м | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Minor Road Junction | 10 | °Z | 200,000.00 | 2,000,000.00 | |
| 4 | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | 13 | °Z | 50,000.00 | 650,000.00 | |
| 5 | Allowance for alterations to street signage | 5,671 | ٤ | 100.00 | 567,100.00 | |
| 9 | Allowance for alterations to road markings | 5,671 | ٤ | 125.00 | 708,875.00 | |
| 7 | Allowance for alterations to street lighting, assumed as existing | | Note | | | |
| ω | Road/pavement fencing assumed as existing, no allowance included | | Note | | | |
| | Utility Diversions/new services | | | | | |
| 6 | Assumed no alteration to existing road layout required, all services to be retained in existing positions | | Note | | | |
| | Signalling/Controls | | | | | |

| Project : Estimate : Price Date | Project: Wellington Public Spine Study Estimate: Version Bus Priority, Revision B - 30 May Price Date: 25/03/2013 | Bus Priority Central Alignment | ntral Align | ment | | Davis Langdon An AECOM COMPANY |
|---------------------------------------|--|--------------------------------|-------------|--------------|---------------|--------------------------------|
| Š. | Description | Quantity | Unit | Rate | Amount | Notes |
| 10 | Telecoms, detector loop and signaling, allowances to existing junctions only | 18 | ž | 125,000.00 | 2,250,000.00 | |
| | Stations/Ticketing and Fare Collection Systems | | | | | |
| = | Allowance for Bus Stop Alterations | 17 | Š | 30,000.00 | 510,000.00 | |
| 12 | Allowance for new Bus Stops | 5 | å | 50,000.00 | 250,000.00 | |
| | Road/Pavements/Landscaping | | | | | |
| 5 | No allowance for general landscaping to median/reserves, assumed within existing carriagway with no additional alterations required | | Note | | | |
| | General Items | | | | | |
| 4 | Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings | ~ | Item | 2,980,000.00 | 2,980,000.00 | |
| 15 | Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | | 28.00 | 3,532,473.00 | |
| | | | | | 16,148,448.00 | |
| | Newtown (Southern) PT Spine | | | | | |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| 91 | No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| 17 | No allowance for Adelaide Road | | | | | |
| | Traffic Management, Road Alterations | | | | | |
| DL Ref: | DL Ref. 60222076 | Printed 3 | 30 May 2013 | | | Page 2 of 9 |

| Project : Estimate : Price Date | Wellington Public Spine Study Version Bus Priority, Revision B - 30 May : 25/03/2013 | Bus Priority Central Alignment | ntral Align | ment | | Davis Langdon An AECOM Company |
|---------------------------------------|---|--------------------------------|-------------|------------|------------|--------------------------------|
| No. | . Description | Quantity | Unit | Rate | Amount | Notes |
| 8 | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Major Road Junction | ო | Š | 300,000.00 | 900,000.00 | |
| 6 | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Minor Road Junction | ო | Š | 200,000.00 | 600,000.00 | |
| 20 | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | 4 | Š | 50,000.00 | 200,000.00 | |
| 21 | Allowance for alterations to street signage | 740 | Ε | 100.00 | 74,000.00 | |
| 22 | Allowance for alterations to road markings | 740 | E | 125.00 | 92,500.00 | |
| 23 | Allowance for alterations to street lighting | 740 | E | 300.00 | 222,000.00 | |
| 24 | 4 Allowance for 10% of road/pavement fencing | 74 | ٤ | 1,000.00 | 74,000.00 | |
| | Utility Diversions/new services, Allowances included at junction afterations or road modifications, existing services to be retained unless specificaly aftered by road afterations | | | | | |
| 25 | Alter Existing Services for road widening to Riddiford Street, including electricity, gas, water, sewer, surface water, fibre optics | 220 | E | 2,000.00 | 440,000.00 | |
| | Signalling/Controls | | | | | |
| 26 | Telecoms, detector loop and signaling, allowances to existing junctions only | ဖ | Š | 125,000.00 | 750,000.00 | |
| | Stations/Ticketing and Fare Collection Systems | | | | | |
| 27 | Allowance for Bus Stop Alterations | 7 | Š | 30,000.00 | 210,000.00 | |
| DL Ref. | DL Ref. 60222076 | Printed 30 | 30 May 2013 | | | Page 3 of 9 |

| Project: Estimate Price Dat | Wellington Public Spine Study : Version Bus Priority, Revision B - 30 May e : 25/03/2013 | Bus Priority Central Alignment | ntral Align | ment | | Davis Langdon An AECOM Company |
|-----------------------------------|--|--------------------------------|-------------|------------|--------------|--------------------------------|
| No. | Description | Quantity | Unit | Rate | Amount | Notes |
| 28 | Allowance for new Bus Stops | 2 | ° | 50,000.00 | 100,000.00 | |
| | Road/Pavements/Landscaping | | | | | |
| 29 | Allowance for general landscaping to median/reserves | 740 | E | 125.00 | 92,500.00 | |
| | General Items | | | | | |
| 30 | Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings | ~ | Item | 890,000.00 | 890,000.00 | |
| 31 | Allowance for General Preliminaries, contractors facilities, on site overheads. | | | 28.00 | 1,300,600.00 | |
| | | | | | 5,945,600.00 | |
| | Constable Street (Sourthern) PT | | | | | |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| 32 | No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| | Traffic Management, Road Alterations | | | | | |
| 33 | Allowance for widening and re-configuring existing traffic junctions and changes to traffic and pedestrian control to Constable Street, to Minor Road Junction | 4 | °Z | 00.000,009 | 2,400,000.00 | |
| 34 | Widen existing road of Riddiford st - Constable to Rintoul St | 132 | m2 | 326.00 | 43,032.00 | |
| 35 | 35 Widen existing Carriageway to Constable st | 1,760 | m2 | 326.00 | 573,760.00 | |
| 36 | Allowance for alterations to street signage, road markings | 800 | E | 100.00 | 80,000.00 | |
| DL Ref. | DL Ref. 60222076 | Printed 3 | 30 May 2013 | | | Page 4 of 9 |

| Allowance for alterations to road markings Allowance for alterations to street lighting Allowance for 10% of road/pavement fencing Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specifically altered by road alterations Alter Existing Services for road widening to Constable Street, including electricity, gas, water, sewer, surface water, fibre optics Signalling/Controls Telecoms, detector loop and signaling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | Estimate : Price Date | Version Bus Priority : 25/03/2013 | Bus Priority Central Alignment | ntral Align | ment | | Davis Langdon An AECOM Company | |
|---|--------------------------|---|--------------------------------|-------------|------------|--|--------------------------------|--------|
| Allowance for alterations to road markings Allowance for alterations to street lighting Allowance for 10% of road/pavement fencing Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specifically altered by road alterations Alter Existing Services for road widening to Constable Street, including electricity, gas, water, sewer, surface water, fibre optics Signalling/Controls Telecoms, detector loop and signaling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | No. | Description | Quantity | Unit | Rate | Amount | Notes | |
| Allowance for alterations to street lighting Allowance for 10% of road/pavement fencing Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specifically altered by road alterations Alter Existing Services for road widening to Constable Street, including electricity, gas, water, sewer, surface water, fibre optics Signalling/Controls Telecoms, detector loop and signaling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | 37 | | 800 | ٤ | 125.00 | 100,000.00 | | |
| Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specifically altered by road alterations Alter Existing Services for road widening to Constable Street, including electricity, gas, water, sewer, surface water, fibre optics Signalling/Controls Telecoms, detector loop and signaling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | 38 | | 800 | 8 | 300.00 | 240,000.00 | | |
| Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specifically altered by road alterations Alter Existing Services for road widening to Constable Street, including electricity, gas, water, sewer, surface water, fibre optics Signalling/Controls Telecoms, detector loop and signalling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. | 39 | Allowance for 10% of road/pavement fencing | 80 | 8 | 1,000.00 | 80,000.00 | | |
| Alter Existing Services for road widening to Constable Street, including electricity, gas, water, sewer, surface water, fibre optics Signalling/Controls Telecoms, detector loop and signaling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specificaly altered by road alterations | | | | | | |
| Signalling/Controls Telecoms, detector loop and signaling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | 40 | Alter Existing Services for road widening to Cor Street, including electricity, gas, water, sewer, s water, fibre optics | 550 | E | 2,000.00 | 1,100,000.00 | | |
| Telecoms, detector loop and signaling, allowances to existing junctions only Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | Signalling/Controls | | | | | | |
| Stations/Ticketing and Fare Collection Systems Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | 4 | | 4 | °Z | 125,000.00 | 500,000.00 | | |
| Allowance for Bus Stop Alterations Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | Stations/Ticketing and Fare Collection Systems | | | | | | |
| Road/Pavements/Landscaping Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | 42 | | 2 | Š | 30,000.00 | 60,000.00 | | |
| Allowance for general landscaping to median/reserves General Items Allowance for Temporary Traffic Management during construction works, including pedestrian and road protection at signals and minor allowances for road markings Allowance for General Preliminaries, contractors facilities, on site overheads. off site overheads | | Road/Pavements/Landscaping | | | | | | |
| | 43 | | 800 | Ε | 125.00 | 100,000.00 | | |
| | | General Items | | | | | | |
| | 44 | | - | Item | 700,000.00 | 700,000.00 | | |
| | 45 | | | | 28.00 | 1,673,501.76 | | |
| DL Ref: 60222076 | OL Ref: 6 | 0222076 | Printed 30 | 30 May 2013 | | - Annual Control of the Control of t | Page 5 of | 5 of 9 |

| Project : Estimate : Price Date | Wellington Public Spine Study : Version Bus Priority, Revision B - 30 May te : 25/03/2013 | Bus Priority Central Alignment | ntral Align | ment | | Davis Langdon An AECOM Company |
|---------------------------------------|---|--------------------------------|-------------|--|--------------|--------------------------------|
| Š. | Description | Quantity | Unit | Rate | Amount | Notes |
| | | | | | 7,650,293.76 | |
| | Kilbirnie (Eastern) PT Spine | | | - Contractive of the Contractive | | |
| 46 | No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| | Site Preparation Works (Within Existing Carriagway) | | | | | |
| 47 | No allowance for new concrete slabs below exisiting road finishes, alterations to junctions and medians measured elsewhere | | Note | | | |
| | Traffic Management, Road Alterations | | | | | |
| 48 | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Major Road Junction | ~ | S Z | 300,000.00 | 300,000.00 | |
| 49 | Allowance for re-configuring existing traffic junctions and changes to traffic and pedestrian control, to Minor Road Junction No Traffic Management | 0 | Š | 200,000.00 | 400,000.00 | |
| 20 | Allowance for alterations to street signage, road markings to Kilbirnie St | 451 | Ε | 100.00 | 45,100.00 | |
| 51 | Widen existing road of Kilbirnie Crescent | 722 | m2 | 326.00 | 235,372.00 | |
| 52 | Allowance for alterations to road markings | 1,698 | E | 125.00 | 212,250.00 | |
| 53 | Allowance for alterations to street lighting | 1,698 | ٤ | 300.00 | 509,400.00 | |
| 54 | Allowance for 10% of road/pavement fencing | 170 | Ε | 1,000.00 | 170,000.00 | |
| | | | | | | |
| DL Ref. | DL Ref: 60222076 | Printed 3 | 30 May 2013 | | | Page 6 of 9 |

| Motes Machine Machine Machine Motes Machine Machine Motes Machine Machine Motes Machine Ma | Estimate : Price Date | Version Bus Priority, Revision B - 30 May : 25/03/2013 | Bus Priority Central Alignment | entral Aligr | ment | | Davis Langdon An AECOM Company |
|--|--------------------------|---|--------------------------------|--------------|--------------|--|---------------------------------------|
| Diversions/new services, Allowances included the ston state at 5th and included services, Allowances included by the stone at 5th and including the colors are to be retained understands of site or conditions and signaling services for road widening to Kilbinnie and signaling electricity, gas, water, sewer, surface this including electricity, gas, water, sewer surface this including electricity, gas, water, sewer surface and signaling and fare collection Systems 2.691 m 1,500.00 902,000.00 mrs and signaling and fare Collection Systems 2.691 m 1,000.00 2,691,000.00 ne for new Bus Stops the formations are for new Bus Stops 2 No 30,000.00 60,000.00 Pavements/Landscaping nee for general landscaping to mediant/eservies 254 m 125.00 1,292,600.00 noe for Temporary Traffic Management 1 1 1,292,600.00 1,292,600.00 noe for General Preliminaries, contractors facilities, overheads of site overheads of site overheads of site overheads 1 1,292,600.00 1,292,600.00 | No. | | Quantity | Unit | Rate | Amount | Notes |
| Asking Services for road widening to Kilbirnie and fart and signing electricity, gas, water, sewer, surface line and signal factor optics The optics The optics The optics The optics The including electricity, gas, water, sewer, surface line of conduits electricity, gas, water, sewer, surface The optics The optics The including electricity, gas, water, sewer, surface The including electricity, gas, water, sewer, surface The including electricity, gas, water, sewer, surface The optic | | Utility Diversions/new services, Allowances included at junction alterations or road modifications, existing services to be retained unless specificaly altered by road alterations | | | | | |
| ms and signaling 2,691 m 1,500.00 4,036,500.00 ms and signaling are and signaling switing switing 2,691 m 1,500.00 2,691,000.00 restricteding and Fare Collection Systems 2 No 30,000.00 60,000.00 nee for Bus Stop Alterations 2 No 50,000.00 100,000.00 Pavements/Landscaping 2 No 50,000.00 100,000.00 Pavements/Landscaping to median/reserves 254 m 125.00 31,750.00 nee for general landscaping to median/reserves 254 m 1,292,600.00 3,076,072.16 nee for Temporary Traffic Management 1 Item 1,292,600.00 3,076,072.16 overheads, off site overheads 2 2 2 2 2 Image: Overheads 3 3,076,072.16 3,076,072.16 | \$5 52 | Alter Existing Services for road widening to Kilbirn Crescent, including electricity, gas, water, sewer, water, fibre optics | 451 | E | 2,000.00 | 902,000.00 | |
| ### 1,500.00 ### 1,500.00 ### 1,500.00 ### 1,500.00 ### 1,000.00 ### 1,000.00 #### 1,000.00 #### 1,000.00 ############################### | | Signalling/Controls | | | | | |
| stion of conduits and pits along proposed road for is writing 2,691 m 1,000.00 2,691,000.00 is writing ns/Ticketing and Fare Collection Systems 2 No 30,000.00 60,000.00 nce for Bus Stop Alterations 2 No 50,000.00 100,000.00 Pavements/Landscaping 2 No 50,000.00 100,000.00 nce for general landscaping to median/reserves 254 m 125.00 31,750.00 all terns 1 Item 1,292,600.00 1,292,600.00 nce for Temporary Traffic Management 1 Item 1,292,600.00 3,076,072.16 nce for General Preliminaries, contractors facilities, overheads. off site overheads 28.00 3,076,072.16 all Allowances 14,062,044.16 14,062,044.16 | 99 | | 2,691 | ٤ | 1,500.00 | 4,036,500.00 | |
| ns/Ticketing and Fare Collection Systems 2 No 30,000.00 60,000.00 nce for Bus Stop Alterations 2 No 50,000.00 100,000.00 Pavements/Landscaping 2 No 50,000.00 100,000.00 nce for general landscaping to median/reserves 254 m 125.00 31,750.00 all tems nce for Temporary Traffic Management 1 1 1292,600.00 1,292,600.00 nce for General Preliminaries, contractors facilities, overheads of fisite overheads 28.00 3,076,072.16 14,062,044.16 al Allowances Printed 30 May 2013 14,062,044.16 14,062,044.16 | 22 | | 2,691 | Ε | 1,000.00 | 2,691,000.00 | |
| nce for Bus Stop Alterations 2 No 30,000.00 60,000.00 nce for new Bus Stops 2 No 50,000.00 100,000.00 Pavements/Landscaping 254 m 125.00 31,750.00 al Items nce for general landscaping to median/reserves 254 m 1,292,600.00 31,750.00 nce for Temporary Traffic Management 1 Item 1,292,600.00 1,292,600.00 nce for General Preliminaries, contractors facilities, overheads. off site overheads 28.00 3,076,072.16 al Allowances 14,062,044.16 Ubgrade Printed 30 May 2013 | | Stations/Ticketing and Fare Collection Systems | | | | | |
| Pavements/Landscaping 2 No 50,000.00 100,000.00 Pavements/Landscaping Pavements/Landscaping 125.00 31,750.00 nce for general landscaping to median/reserves 254 m 125.00 31,750.00 al Items nce for Temporary Traffic Management 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 58 | | 7 | Š | 30,000.00 | 60,000.00 | |
| Pavements/Landscaping 254 m 125.00 31,750.00 al Items 1 2 2 6 0 <td>58</td> <td></td> <td>2</td> <td>%</td> <td>50,000.00</td> <td>100,000.00</td> <td></td> | 58 | | 2 | % | 50,000.00 | 100,000.00 | |
| nce for general landscaping to median/reserves 254 m 125.00 31,750.00 al Items 1 <th< td=""><td></td><td>Road/Pavements/Landscaping</td><td></td><td></td><td></td><td></td><td></td></th<> | | Road/Pavements/Landscaping | | | | | |
| al Items 1 Item 1,292,600.00 1,292,600.00 nce for Temporary Traffic Management 1 1 tem 1,292,600.00 1,292,600.00 nce for General Preliminaries, contractors facilities, overheads. off site overheads 3,076,072.16 14,062,044.16 al Allowances 14,062,044.16 14,062,044.16 14,062,044.16 | 09 | | 254 | Ε | 125.00 | 31,750.00 | |
| nce for Temporary Traffic Management 1 Item 1,292,600.00 1,292,600.00 nce for General Preliminaries, contractors facilities, overheads. 28.00 3,076,072.16 al Allowances 14,062,044.16 | | General Items | | | | | |
| nce for General Preliminaries, contractors facilities, overheads. off site overheads al Allowances Upgrade Printed 30 May 2013 | 61 | | ~ | Item | 1,292,600.00 | 1,292,600.00 | |
| al Allowances Upgrade Printed 30 May 2013 | 62 | Allowance for General Preliminaries, contractors on site overheads. off site overheads | | | 28.00 | 3,076,072.16 | |
| al Allowances Upgrade Printed 30 May 2013 | | | | | | 14,062,044.16 | |
| - Upgrade Printed 30 May 2013 | | General Allowances | | | | The state of the s | T T T T T T T T T T T T T T T T T T T |
| Printed 30 May 2013 | | Power Upgrade | | | | | |
| | DL Ref: | 60222076 | Printed 3 | 0 May 2013 | | | Page 7 of 9 |

| Project : Estimate : Price Date | Wellington Public Spine Study : Version Bus Priority, Revision B - 30 May e : 25/03/2013 | Bus Priority Central Alignment | entral Align | ment | | Davis Langdon An AECOM Company |
|---------------------------------------|---|--------------------------------|--------------|--------------|--------------|--------------------------------|
| S S | Description | Quantity | Unit | Rate | Amount | Notes |
| 63 | Power Upgrade to existing substations, no upgrade included | | Note | | | |
| | Real Time Alteration/Extension | | | | | |
| 64 | Alteration to existing Real Time installations, not required as included within existing services | | Note | | | |
| | Building Structures | | | | | |
| 65 | Bus Depots not required use of existing | | Note | | | |
| 99 | Control Centre not required use of existing | | Note | | | |
| | Rolling Stock | | | | | |
| 29 | Higher Capacity Bus Stock, re use of existing bus stock | | Note | | | |
| | Design Fees | | | | | |
| 89 | Detail Design and Supervision | - | Item | 5,000,000.00 | 5,000,000.00 | |
| | | | | | 5,000,000.00 | |
| | | | | | | |
| DL Ref: | DL Ref. 60222076 | Printed : | 30 May 2013 | | | Page 8 of 9 |
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|---------------------------------------|-------------|---------------|--|
| Davis Langdon | Notes | | , management (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) |
| | Amount | 48,806,385.92 | - Paragraphic |
| | Rate | | |
| Bus Priority Central Alignment | Unit | | Printed 30 May 2013 |
| 3us Priority Ce | Quantity | | Printed 30 |
| 30 May | Description | Total | 22076 |
| Project : Estimate : Price Date | So. | | DL Ref: 60222076 |