

BILL OF QUANTITIES

NOVEMBER 2020

## WYEE WEST PAPER SUBDIVISION

LAKE MACQUARIE CITY COUNCIL

**Prepared For**

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## REPORTS ISSUED

| Report | Date       | Title Description  | Released By |
|--------|------------|--------------------|-------------|
| 1      | 02.11.2020 | Bill of Quantities | Director    |

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## Bill of Quantities

**Wye West Paper Subdivision**

Summary

|   |                                | Page         | Cost                |
|---|--------------------------------|--------------|---------------------|
| 1   | GENERAL PRINCIPLES             | 1/10         |                     |
| 2   | DEMOLITION                     | 2/5          | \$668,590           |
| 3   | GROUND WORKS                   | 3/6          | \$4,339,430         |
| 4   | ROADWORKS                      | 4/4          | \$1,981,064         |
| 5   | PROVISIONAL AND MONETARY SUMS  | 5/3          | \$1,096,800         |
| 6   | HYDRAULICS                     | 6/7          | \$5,002,669         |
| 7   | ELECTRICAL INSTALLATIONS       | 7/4          | \$2,567,220         |
| 8   | PRELIMINARIES                  | 8/5          | \$2,243,300         |
| 9   | EXTERNAL WORKS AND LANDSCAPING | 9/5          | \$735,132           |
| <p>This document contains 49 pages plus the Summary and 2 pages of Indices. The Tenderer shall ensure that no page is missing nor in duplicate.</p> |                                |              |                     |
|   |                                | <b>Total</b> | <b>\$18,634,205</b> |

Wyee West Paper Subdivision

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|          |  | Cost |            |
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| Item                          | Unit   | Qty | Rate | Cost          |
|-------------------------------|--|-----|------|---------------|
| <b>GENERALLY</b>              |  |     |      |               |
| <b>Bill of Quantities</b>     |  |     |      |               |
| A                             | These Bills of Quantities do not describe methods of working, planning, programming or ordering procedures or detail resources of labour, material, plant and time required to carry out the works these matters being entirely the Contractor's responsibility and any information required should be obtained by reference to all the contract documents   |     |      |               |
| B                             | The Bills of Quantities are for pricing purposes only and they should not be used for any other purpose including inter alia any functions described above   |     |      |               |
| C                             | The requirements of the Agreement/ Contract, Specification and drawings shall have precedence over the Bill of Quantities, when the Schedule is a Contract Document, including any requirements for the functions described above  |     |      |               |
| <b>Method of Measurement</b>  |  |     |      |               |
| D                             | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works.  |     |      |               |
| E                             | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |     |      |               |
| F                             | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |     |      |               |
| G                             | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |     |      |               |
| H                             | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |     |      |               |
| I                             | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |     |      |               |
| J                             | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |     |      |               |
| <b>Item Coding</b>            |  |     |      |               |
| K                             | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |     |      |               |
| <b>MEASUREMENT AND PRICES</b> |  |     |      |               |
| <b>Measurement</b>            |  |     |      |               |
|                               |  |     |      | To Collection |



| Item                                   | Unit   | Qty | Rate          | Cost |
|--|--|-----|---------------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |  |     |               |      |
| <b>Measurement (Cont'd)</b>            |  |     |               |      |
| A                                      | Where quantities of work contained in these Bills of Quantities are described as Provisional, such quantities will be remeasured during the progress of the works by the Quantity Surveyor. The Contractor shall base his tender upon the quantities contained herein. The Contractor will be paid for the quantity of work satisfactorily completed and valued at the unit prices inserted herein, subject only to subsequent variations authorised by the Architect/Superintendent   |     |               |      |
| <b>Prices</b>                          |  |     |               |      |
| B                                      | <p>Unless otherwise stated, all items shall be deemed to be fully inclusive of all that is necessary to fulfil the liabilities and obligations arising out of the contract and shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>a. Materials and goods and all costs in connection therewith including materials in laps and joints and the like</li> <li>b. All costs in connection therewith such as conveying, delivery, unloading, storing, returning packings, handling, hoisting and lowering</li> <li>c. Square, straight, raking, splay and circular cutting</li> <li>d. Waste of materials</li> <li>e. Protection and removal on completion</li> <li>f. Progressive and final cleaning</li> <li>g. Samples</li> <li>h. Guarantees and warranties</li> <li>i. Labour and all costs including overtime in connection therewith in setting, fitting and fixing of materials and goods in position</li> <li>j. Fixings and consumables required to complete the items of work</li> <li>k. Site and other wage allowances, statutory levies, superannuation, fares, travel, payroll tax, and other statutory loadings on wages</li> <li>l. Shop drawings</li> <li>m. Shop fabrication</li> <li>n. As constructed drawings, completion and operations manuals, etc</li> <li>o. Testing</li> <li>p. Tools, plant and equipment</li> <li>q. Customs duties and the like</li> </ul> |     |               |      |
| C                                      | Notwithstanding the foregoing item, each priced item in the Bill of Quantities shall be deemed to exclude all items listed in the Preliminaries Trade  |     |               |      |
| D                                      | Where described as Fix Only, prices shall include for all of the foregoing except that the purchase price of the material together with customs duties and any other charge payable on imported material and any other tax relating to the purchase of the material and carriage to the site, shall be excluded  |     |               |      |
| <b>General Attendance</b>              |  |     |               |      |
| E                                      | The Contractor shall ascertain from each Specialist Sub-Contractor all particulars relating to the work with regard to the order of its execution and the positions in which chases, holes, mortices and similar items will be required, before the work is put in hand, as no claim will be entertained for extra costs of cutting away work already executed due to failure of the Contractor to ascertain these particulars beforehand  |     |               |      |
|  |  |     | To Collection |      |

| Item  | Unit   | Qty | Rate | Cost |
|---|--|-----|------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b>  |  |     |      |      |
| <b>General Attendance (Cont'd)</b>  |  |     |      |      |
| A   | <p>Where items for general attendance have been given in the Bills, such general attendance by the Contractor shall include for all labour, material and services free of charge to the Specialist Sub-Contractor executing the work. Such attendance shall be deemed to include for:</p> <ul style="list-style-type: none"> <li>· Supervision and co-ordination of the work of Specialist Sub-Contractors</li> <li>· Providing programme information and ensuring that the requirements for their work is carried out in the proper sequence</li> <li>· Providing details of location and setting out</li> <li>· Assistance in taking delivery of materials at the site, checking of contents and signing delivery dockets</li> <li>· Assistance in unloading, getting in, storage and protection of materials and plant</li> <li>· Providing the necessary equipment, plant operators and dogmen for all hoisting, lowering and depositing of materials, plant and equipment at the required levels in locations from which access to final positions is practicable including hoisting specific to the work of the Specialist Sub-Contractor</li> <li>· Transport of materials, plant, etc. around the site</li> <li>· Water and reticulation to suitable positions on the site</li> <li>· Power at the required voltage and phase reticulated to suitable positions on the site including provision of power for starting up, test running and commissioning of mechanical and electrical installations</li> <li>· Use of plant, equipment, scaffolding and access in position for other purposes and for the provision of scaffolding and access specific to the work of the Specialist Sub-contractor</li> <li>· Sanitary and messing accommodation and other facilities</li> <li>· Provision of covered space for plant, storage of materials, etc</li> <li>· Affording all reasonable facilities for carrying out the work</li> <li>· Taking responsibility for setting out all chases, holes, sleeves, conduits, bolts, pipe hangers, brackets, etc., in floors and walls, building in and, where required, making good around the above</li> <li>· Touching up and making good all work disturbed</li> <li>· Protecting finished work</li> </ul> |     |      |      |
| <b>Fix Only</b>   |  |     |      |      |
| B   | <p>Where items are described as FIX ONLY in the Bills, the prices for such items, in addition to the requirements of the various prices clauses contained in this and the other trade Bills, shall be deemed to include for all things necessary to provide the finished item in place including:</p> <ul style="list-style-type: none"> <li>· Taking delivery, unloading, getting in, unpacking and disposal of packaging, checking for discrepancies and faults and co-ordinating necessary replacements</li> <li>· Storing, removing from store, distributing, hoisting, lowering and placing in position</li> <li>· Assembling as necessary and fixing as required</li> <li>· Protecting and insuring goods from receipt to completion of Contract</li> <li>· Taking risk for loss or damage</li> <li>· Safe return of packages, crates, etc</li> </ul>  |     |      |      |
| <b>Measured Items Containing Prime Cost Rates and Equivalent Monetary Rates</b> |  |     |      |      |
| To Collection   |  |     |      |      |

| Item   | Unit  | Qty | Rate          | Cost |
|--|---|-----|---------------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b>   |   |     |               |      |
| <b>Measured Items Containing Prime Cost Rates and Equivalent Monetary Rates (Cont'd)</b> |   |     |               |      |
| A  | Prime Cost (PC) Rates in measured items are for works carried out by Nominated Sub-Contractors or for goods or materials provided by Nominated Suppliers. Such Rates are used when the quantum of the work is known but the exact nature of work or goods and materials cannot be accurately defined or foreseen at the time of issue of the Tender documents   |     |               |      |
| B  | Prime Cost (PC) Rates for supply and fix of goods and materials shall include for all things necessary to provide the finished item in place including purchase and delivery to site, labour installing, handling, waste, storage, fixings, fillets, grounds and the like, glue, templates, cutting, falsework, access and scaffolding and sub-contractor's profit. All other costs including profit and attendance by the Contractor shall be deemed to be included in the measured item and are not subject to adjustment |     |               |      |
| C  | Prime Cost (PC) Rates for the supply only of goods and materials shall include for the purchase and delivery to store or site as applicable. All other costs are deemed to be included in the measured item and are not subject to adjustment, including labour in installing, handling, waste, storage, fillets, grounds and the like, glue, templates, cutting, falsework, access and scaffolding, supplier's profit and Contractor's profit  |     |               |      |
| D  | The quantum of the measured items is not subject to remeasurement unless the items are marked "Provisional"   |     |               |      |
| <b>Location of Site</b>  |   |     |               |      |
| E  | Notwithstanding the requirements of clause 1.10.1 of the Rules for Construction Measurement, the address of the site is not given - the Contractor is referred to the design documentation and the proposed Contract Documents for the site address and other details related to the site   |     |               |      |
| <b>Brief Description of the Works</b>  |   |     |               |      |
| F  | Notwithstanding the requirements of clause 1.11.1 of the Rules for Construction Measurement, a brief description of the works is not given - the Contractor is referred to the design documentation for all such information  |     |               |      |
| G  | Notwithstanding the requirements of clause 1.11.2 of the Rules for Construction Measurement, the gross floor areas, nett commercial areas and the numbers of functional units have not been given - this information can be obtained by reference to the design documents   |     |               |      |
| <b>Documents Used</b>  |   |     |               |      |
|  |   |     | To Collection |      |

| Item                                   | Unit  | Qty | Rate          | Cost |
|--|---|-----|---------------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |     |               |      |
| <b>Documents Used (Cont'd)</b>         |   |     |               |      |
| A                                      | The documents used in the preparation of these Bills of Quantities are defined as the tender Specifications, drawings, details, schedules etc., issued for tendering the works. |     |               |      |
|  | The following documentation has been used to prepare this Bill of Quantities:   |     |               |      |
|  | Infrastructure Works Drawings by ADW Johnson dated 6 August 2020:   |     |               |      |
|  | 239858-ENG-001 - Title Sheet, Drawing Index & Locality Plan - Rev D   |     |               |      |
|  | 239858-ENG-002 - Overall Site Plan, General Notes & Existing Infrastructure - Rev D   |     |               |      |
|  | 239858-ENG-101 - Road & Stormwater Arrangement Plan: Sheet 1 - Rev D  |     |               |      |
|  | 239858-ENG-102 - Road & Stormwater Arrangement Plan: Sheet 2 - Rev D  |     |               |      |
|  | 239858-ENG-103 - Road & Stormwater Arrangement Plan: Sheet 3 - Rev D  |     |               |      |
|  | 239858-ENG-104 - Road & Stormwater Arrangement Plan: Sheet 4 - Rev D  |     |               |      |
|  | 239858-ENG-111 - Road and Stormwater Typical Sections: Sheet 1 - Rev D  |     |               |      |
|  | 239858-ENG-112 - Road and Stormwater Typical Sections: Sheet 2 - Rev D  |     |               |      |
|  | 239858-ENG-113 - Road and Stormwater Typical Sections: Sheet 3 - Rev D  |     |               |      |
|  | 239858-ENG-121 - Road Setout Tables - Rev D   |     |               |      |
|  | 239858-ENG-201 - Road Longitudinal Section: MC01 - Sheet 1 - Rev D  |     |               |      |
|  | 239858-ENG-202 - Road Longitudinal Section: MC01 - Sheet 2 - Rev D  |     |               |      |
|  | 239858-ENG-203 - Road Longitudinal Section: MC01 - Sheet 3 - Rev D  |     |               |      |
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|  | 239858-ENG-205 - Road Longitudinal Sections: Karakunba Road - Rev D   |     |               |      |
|  | 239858-ENG-206 - Road Longitudinal Sections: Tulkaba Road - Rev D   |     |               |      |
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|  | 239858-ENG-208 - Road Longitudinal Section: Waropara Road - Rev D   |     |               |      |
|  | 239858-ENG-209 - Road Longitudinal Section: Tullokan Road - Rev D   |     |               |      |
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|  | 239858-ENG-221 - Road Cross Sections: MC01 - Sheet 1 - Rev D  |     |               |      |
|  | 239858-ENG-222 - Road Cross Sections: MC01 - Sheet 2 - Rev D  |     |               |      |
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|  | 239858-ENG-227 - Road Cross Sections: Lane - Rev D  |     |               |      |
|  | 239858-ENG-228 - Road Cross Sections: Karakunba Road - Sheet 1 - Rev D  |     |               |      |
|  | 239858-ENG-229 - Road Cross Sections: Karakunba Road - Sheet 2 - Rev D  |     |               |      |
|  | 239858-ENG-230 - Road Cross Sections: Karakunba Road - Sheet 3 - Rev D  |     |               |      |
|  | 239858-ENG-231 - Road Cross Sections: Karakunba Road - Sheet 4 - Rev D  |     |               |      |
|  | 239858-ENG-232 - Road Cross Sections: Tulkaba Road - Sheet 1 - Rev D  |     |               |      |
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|  | 239858-ENG-234 - Road Cross Sections: Tulkaba Road - Sheet 3 - Rev D  |     |               |      |
|  | 239858-ENG-235 - Road Cross Sections: Pirama Road - Sheet 1 - Rev D   |     |               |      |
|  | 239858-ENG-236 - Road Cross Sections: Pirama Road - Sheet 2 - Rev D   |     |               |      |
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|  | 239858-ENG-241 - Road Cross Sections: Tullokan Road - Sheet 1 - Rev D   |     |               |      |
|  | 239858-ENG-242 - Road Cross Sections: Tullokan Road - Sheet 2 - Rev D   |     |               |      |
|  | 239858-ENG-243 - Road Cross Sections: Dillabirra Road - Sheet 1 - Rev D   |     |               |      |
|  | 239858-ENG-244 - Road Cross Sections: Dillabirra Road - Sheet 2 - Rev D   |     |               |      |
|  | 239858-ENG-245 - Road Cross Sections: Dillabirra Road - Sheet 3 - Rev D   |     |               |      |
|  |   |     | To Collection |      |

| Item  | Unit | Qty | Rate          | Cost |
|---|------|-----|---------------|------|
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| 239858-ENG-301 - Intersection Detail Plan: Kerb Returns MK01, 02, 35, 36 - Rev D        |      |     |               |      |
| 239858-ENG-302 - Intersection Detail Plan: Kerb Returns MK03, 04, 37, 38 - Rev D        |      |     |               |      |
| 239858-ENG-303 - Intersection Detail Plan: Kerb Returns MK05, 06, 39, 40 - Rev D        |      |     |               |      |
| 239858-ENG-304 - Intersection Detail Plan: Kerb Returns MK07, 08, 41, 42 - Rev D        |      |     |               |      |
| 239858-ENG-305 - Intersection Detail Plan: Kerb Returns MK09, 10 & 43 - Rev D           |      |     |               |      |
| 239858-ENG-306 - Intersection Detail Plan: Kerb Returns MK 11 & 12 - Rev D              |      |     |               |      |
| 239858-ENG-307 - Intersection Detail Plan: Kerb Returns MK13, 14, 15, 16 - Rev D        |      |     |               |      |
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| 239858-ENG-310 - Intersection Detail Plan: Kerb Returns MK20, 21 - Rev D                |      |     |               |      |
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| 239858-ENG-312 - Intersection Detail Plan: Kerb Return MK24 - Rev D                     |      |     |               |      |
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| 239858-ENG-314 - Intersection Detail Plan: Kerb Returns MK44 - Rev D                    |      |     |               |      |
| 239858-ENG-401 - Stormwater Catchment Plan: Sheet 1 - Rev D                             |      |     |               |      |
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| 239858-ENG-416 - Stormwater Calculations: Major Event Sheet 2 - Rev D                   |      |     |               |      |
| 239858-ENG-417 - Stormwater Calculations: Major Event Sheet 3 - Rev D                   |      |     |               |      |
| 239858-ENG-421 - Stormwater Longitudinal Sections: Line 01 - Rev D                      |      |     |               |      |
| 239858-ENG-422 - Stormwater Longitudinal AI Sections: Lines 02, 03, 04, 05 - Rev D      |      |     |               |      |
| 239858-ENG-423 - Stormwater Longitudinal Sections: Lines 06, 07, 08, 09, 10, 11 - Rev D |      |     |               |      |
| 239858-ENG-424 - Stormwater Longitudinal Sections: Lines 12, 13, 14 - Rev D             |      |     |               |      |
| 239858-ENG-425 - Stormwater Longitudinal Sections: Lines 15, 16, 17, 18, 19, 20 - Rev D |      |     |               |      |
| 239858-ENG-426 - Stormwater Longitudinal Sections: Line 21 - Rev D                      |      |     |               |      |
| 239858-ENG-427 - Stormwater Longitudinal Sections: Lines 22, 23 - Rev D                 |      |     |               |      |
| 239858-ENG-428 - Stormwater Longitudinal Sections: Line 24 - Rev D                      |      |     |               |      |
| 239858-ENG-429 - Stormwater Longitudinal Sections: Lines 25, 26, 27 - Rev D             |      |     |               |      |
| 239858-ENG-430 - Stormwater Longitudinal Sections: Line 28 - Rev D                      |      |     |               |      |
| 239858-ENG-431 - Stormwater Longitudinal Sections: Lines 29, 30, 31, 32, 33, 50 - Rev D |      |     |               |      |
| 239858-ENG-432 - Stormwater Longitudinal Sections: Lines 51, 55 - Rev D                 |      |     |               |      |
| 239858-ENG-433 - Stormwater Longitudinal Sections: Lines 56, 60, 61 - Rev D             |      |     |               |      |
| 239858-ENG-434 - Stormwater Longitudinal Sections: Lines 62, 63, 64 - Rev D             |      |     |               |      |
| 239858-ENG-435 - Stormwater Longitudinal Sections: Lines 65, 66, 67, 68, 69 - Rev D     |      |     |               |      |
| 239858-ENG-436 - Stormwater Longitudinal Sections: Lines 71, 72 - Rev D                 |      |     |               |      |
| 239858-ENG-437 - Stormwater Longitudinal Sections: Lines 73, 74, 75 - Rev D             |      |     |               |      |
| 239858-ENG-438 - Stormwater Longitudinal Sections: Lines 76, 77 - Rev D                 |      |     |               |      |
| 239858-ENG-439 - Stormwater Longitudinal Sections: Tank Lines - Rev D                   |      |     |               |      |
| 239858-ENG-461 - Stormwater Details: Detention Tanks - Rev D                            |      |     |               |      |
| 239858-ENG-462 - Stormwater Details: Scour Protection Details - Rev D                   |      |     |               |      |
| 239858-ENG-501 - Site Regrade and Tree Removal Plan: Sheet 1 - Rev D                    |      |     |               |      |
|   |      |     | To Collection |      |

| Item  | Unit | Qty | Rate | Cost |
|---|------|-----|------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b>                                  |      |     |      |      |
| <b>Documents Used (Cont'd)</b>  |      |     |      |      |
| 239858-ENG-502 - Site Regrade and Tree Removal Plan: Sheet 2 - Rev D    |      |     |      |      |
| 239858-ENG-503 - Site Regrade and Tree Removal Plan: Sheet 3 - Rev D    |      |     |      |      |
| 239858-ENG-504 - Site Regrade and Tree Removal Plan: Sheet 4 - Rev D    |      |     |      |      |
| 239858-ENG-801 - Erosion & Sediment Control Plan: Sheet 1 - Rev D       |      |     |      |      |
| 239858-ENG-802 - Erosion & Sediment Control Plan: Sheet 2 - Rev D       |      |     |      |      |
| 239858-ENG-803 - Erosion & Sediment Control Plan: Sheet 3 - Rev D       |      |     |      |      |
| 239858-ENG-804 - Erosion & Sediment Control Plan: Sheet 4 - Rev D       |      |     |      |      |
| 239858-ENG-811 - Erosion & Sediment Control Notes - Rev D               |      |     |      |      |
| 239858-ENG-812 - Erosion & Sediment Control Details - Rev D             |      |     |      |      |
| 239858-ENG-901 - Linemarking & Signage Plan: Sheet 1 - Rev D            |      |     |      |      |
| 239858-ENG-902 - Linemarking & Signage Plan: Sheet 2 - Rev D            |      |     |      |      |
| 239858-ENG-903 - Linemarking & Signage Plan: Sheet 3 - Rev D            |      |     |      |      |
| 239858-ENG-904 - Linemarking & Signage Plan: Sheet 4 - Rev D            |      |     |      |      |
| Sewer Mains Drawings by ADW Johnson dated 7 April 2020:                 |      |     |      |      |
| 239858-SEW-001 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-002 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-003 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-004 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-005 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-006 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-007 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-008 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-009 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-010 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-011 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-012 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-013 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-014 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-015 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-016 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-017 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-018 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-SEW-019 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| Water Mains Drawings by ADW Johnson dated 7 April 2020:                 |      |     |      |      |
| 239858-WAT-001 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-003 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-003 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-004 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-005 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-006 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-007 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-008 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-009 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| 239858-WAT-010 - Proposed Sewer mains Gorokan Road, Wye West - Rev 0A   |      |     |      |      |
| Landscaping Drawings by Terras Landscape Architects dated 9 April 2020: |      |     |      |      |
| 9496.5 - CC - L000 - Cover Page - Rev B                                 |      |     |      |      |
| 12527.5 - CC - L101 - Landscape Plan - Rev B                            |      |     |      |      |
| 12527.5 - CC - L102 - Landscape Plan - Rev B                            |      |     |      |      |
| 12527.5 - CC - L103 - Landscape Plan - Rev B                            |      |     |      |      |
| 12527.5 - CC - L104 - Landscape Plan - Rev B                            |      |     |      |      |
| To Collection   |      |     |      |      |

| Item   | Unit  | Qty | Rate          | Cost |
|--|---|-----|---------------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b>   |   |     |               |      |
| <b>Documents Used (Cont'd)</b>   |   |     |               |      |
| <p>12527.5 - CC - L105 - Landscape Plan - Rev B<br/>           12527.5 - CC - L106 - Landscape Plan - Rev B<br/>           12527.5 - CC - L107 - Landscape Plan - Rev B<br/>           12527.5 - CC - L108 - Landscape Plan - Rev B<br/>           12527.5 - CC - L109 - Landscape Plan - Rev B<br/>           12527.5 - CC - L110 - Landscape Plan - Rev B<br/>           12527.5 - CC - L111 - Landscape Plan - Rev B<br/>           12527.5 - CC - L201 - Plant Schedule / Details<br/>           12527.5 - CC - L202 - Details<br/>           12527.5 - CC - L801 - Specification - Rev B<br/>           12527.5 - CC - L802 - Specification - Rev B<br/>           12527.5 - CC - L803 - Specification - Rev B<br/>           12527.5 - CC - L901 - Schedule 1 - Rev B<br/>           12527.5 - CC - L901 - Schedule 2 - Rev B</p> <p>URD Subdivision Drawings by Power Solutions dated 13 March 2020:<br/>           AN-20031 Sheet 1 of 15 - Legend, Locality Sketch &amp; System Diagram - Rev 0<br/>           AN-20031 Sheet 2 of 15 -Site Plan 'A'<br/>           AN-20031 Sheet 3 of 15 -Site Plan 'B'<br/>           AN-20031 Sheet 4 of 15 - Site Plan 'C'<br/>           AN-20031 Sheet 5 of 15 - Site Plan 'D'<br/>           AN-20031 Sheet 6 of 15 - LV Overhead Service Works<br/>           AN-20031 Sheet 7 of 15 - Kiosk Profile, Earthing, Kiosk Notes &amp; Detail 'B'<br/>           AN-20031 Sheet 8 of 15 - Kiosk Profile, Earthing, Kiosk Notes &amp; Detail 'A'<br/>           AN-20031 Sheet 9 of 15 - O/H Profiles, Earthing Designs &amp; Stringing Chart<br/>           AN-20031 Sheet 10 of 15 - Construction Schedules<br/>           AN-20031 Sheet 11 of 15 - Construction Schedules<br/>           AN-20031 Sheet 12 of 15 - Construction Schedules<br/>           AN-20031 Sheet 13 of 15 - Trench Sections &amp; Substation Schematic<br/>           AN-20031 Sheet 14 of 15 - LV Schematics &amp; Pillar Schematics<br/>           AN-20031 Sheet 15 of 15 - Ausgrid Property Rights</p> <p>Report on Geotechnical Investigation by Douglas Partners dated 8 October 2018</p> |   |     |               |      |
| <b>Abbreviations</b>   |   |     |               |      |
| A  | <p>Throughout these Bills of Quantities, the following measurement unit abbreviations are used:</p> <p>m metre<br/>           m millimetre<br/>           m/r metre rise (for vertical height of staircases)<br/>           m2 square metre<br/>           m3 cubic metre<br/>           t tonne<br/>           No number<br/>           MPa megapascal<br/>           kg kilogram<br/>           wk week</p> |     |               |      |
|  |   |     | To Collection |      |

| Item                                   | Unit  | Qty | Rate          | Cost |
|--|---|-----|---------------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |     |               |      |
| <b>Abbreviations (Cont'd)</b>          |   |     |               |      |
| A                                      | Throughout these Bills of Quantities, the following general abbreviations are used: |     |               |      |
| approx                                 | approximately   |     |               |      |
| AS                                     | Australian Standard   |     |               |      |
| AS/NZS                                 | Australian Standard/New Zealand Standard  |     |               |      |
| ave                                    | average   |     |               |      |
| BS                                     | British Standard  |     |               |      |
| CHS                                    | circular hollow section   |     |               |      |
| c.i.                                   | cast iron   |     |               |      |
| c.p.                                   | chrome plated   |     |               |      |
| c.o.p.                                 | circular-on-plan  |     |               |      |
| c.o.e.                                 | circular-on-elevation   |     |               |      |
| dia                                    | diameter  |     |               |      |
| EA                                     | equal angle   |     |               |      |
| (f)                                    | finished size   |     |               |      |
| f.c.                                   | fibre cement  |     |               |      |
| galv                                   | galvanised  |     |               |      |
| i.d.                                   | internal diameter   |     |               |      |
| max                                    | maximum   |     |               |      |
| MDF                                    | medium density fibreboard   |     |               |      |
| min                                    | minimum   |     |               |      |
| msd sep                                | measured separately   |     |               |      |
| n.b.                                   | nominal bore  |     |               |      |
| n.e.                                   | not exceeding   |     |               |      |
| nom                                    | nominal   |     |               |      |
| o.d.                                   | outside diameter  |     |               |      |
| PFC                                    | parallel flange channel   |     |               |      |
| PVC                                    | poly vinyl chloride   |     |               |      |
| rad                                    | radius  |     |               |      |
| RHS                                    | rectangular hollow section  |     |               |      |
| RL                                     | reduced level   |     |               |      |
| s.c.p.                                 | satin chrome plated   |     |               |      |
| SHS                                    | square hollow section   |     |               |      |
| s.s.                                   | stainless steel   |     |               |      |
| TFB                                    | tapered flange beam   |     |               |      |
| UA                                     | unequal angle   |     |               |      |
| UB                                     | universal beam  |     |               |      |
| UBP                                    | universal bearing pile  |     |               |      |
| UC                                     | universal column  |     |               |      |
| WB                                     | Welded beam   |     |               |      |
| WC                                     | Welded column   |     |               |      |
| %                                      | percent   |     |               |      |
|  |   |     | To Collection |      |



|                        | Page       | Cost |
|------------------------|------------|------|
| <b>COLLECTION</b>      |            |      |
|                        | 1/1        |      |
|                        | 1/2        |      |
|                        | 1/3        |      |
|                        | 1/4        |      |
|                        | 1/5        |      |
|                        | 1/6        |      |
|                        | 1/7        |      |
|                        | 1/8        |      |
|                        | 1/9        |      |
| 1 - GENERAL PRINCIPLES | To Summary |      |

| Item                          | Unit | Qty  | Rate   | Cost |
|-------------------------------|------|------|--|------|
| <b>GENERALLY</b>              |      |      |  |      |
| <b>Method of Measurement</b>  |      |      |  |      |
| A                             |      |      | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |      |
| B                             |      |      | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |      |
| C                             |      |      | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |      |
| D                             |      |      | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |      |
| E                             |      |      | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |      |
| F                             |      |      | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |      |
| G                             |      |      | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |      |
| <b>Item Coding</b>            |      |      |  |      |
| H                             |      |      | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |      |
| <b>MEASUREMENT AND PRICES</b> |      |      |  |      |
| <b>Specification</b>          |      |      |  |      |
| I                             |      | (XX) | The Contractor is referred to the Specification, Drawings and other Contract documents for full descriptions and details of workmanship, materials, etc., related to the work measured in this Bill and shall allow here or in the prices for measured work for all costs incurred therewith   | Nil  |
| <b>Prices</b>                 |      |      |  |      |
|                               |      |      | To Collection  |      |

| Item                                   | Unit  | Qty  | Rate          | Cost             |
|--|---|------|---------------|------------------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |      |               |                  |
| <b>Prices (Cont'd)</b>                 |   |      |               |                  |
| A                                      | Prices for Demolition are deemed to include for:  |      |               |                  |
|  | a. Giving notices, obtaining permits, paying statutory fees and charges applicable to the Demolition works  |      |               |                  |
|  | b. Inspection of the existing premises  |      |               |                  |
|  | c. Protection of existing works or adjacent premises, occupants and the public  |      |               |                  |
|  | d. Breaking up and grubbing out   |      |               |                  |
|  | e. Dismantling  |      |               |                  |
|  | f. Disconnecting and taking out, taking up, taking down and removing and sealing of all services  |      |               |                  |
|  | g. Removal of rubbish and debris arising from demolition  |      |               |                  |
|  | h. Temporary shoring, propping, strutting, scaffolding, protection, etc., as may be necessary except when shoring is designed and detailed on the drawings  |      |               |                  |
|  | i. Making good all work disturbed during demolition   |      |               |                  |
|  | j. Incidental making good to work in alterations including extending finishes, etc., into reveals of new openings in existing and the like  |      |               |                  |
|  | k. Preparation of dilapidation surveys and reports  |      |               |                  |
|  | l. Vibration monitoring   |      |               |                  |
| B                                      | Prices for Demolition of Walls are deemed to include for:   |      |               |                  |
|  | a. Demolishing doors, windows, finishes, attachments, and the like  |      |               |                  |
| C                                      | Prices for Demolition shall also be deemed to include for:  |      |               |                  |
|  | · Protecting retained parts of existing buildings including finishes  |      |               |                  |
|  | · Patching and otherwise making good to surfaces where bolts and other fixings removed in retained parts of existing buildings  |      |               |                  |
|  | · Removing all associated frames, plates, packers, trims, fixings, bedding materials, adhesives, etc  |      |               |                  |
| D                                      | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Bill and shall allow against each clause or item for all costs in connection therewith |      |               |                  |
| E                                      | If any clause, item or quantity is not priced it shall be deemed that the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity                     |      |               |                  |
| <b>ALLOWANCE ITEMS</b>                 |   |      |               |                  |
| F                                      | Allow for temporary dustproof, weatherproof and secure hoardings, screens, coverings, etc   | (XX) | Item          | Nil              |
| G                                      | Allow for complying with all conditions and restrictions imposed by the Specification and/or Authorities in carrying out the works  | (XX) | Item          | 100,000          |
| H                                      | Sundry demolition to affected areas   | (XX) | Item          | 25,000           |
|  |   |      | To Collection | <b>\$125,000</b> |

| Item                               | Unit  | Qty                 | Rate | Cost          |                  |
|------------------------------------|---|---------------------|------|---------------|------------------|
| <b>ALLOWANCE ITEMS (Cont'd)</b>    |   |                     |      |               |                  |
| A                                  | Allowance for coordination with supply authorities for disconnection of electrical services prior to demolition   | (XX) Item           |      | 50,000        |                  |
| B                                  | Allow for temporary services to residential properties during demolition  | (XX) Item           |      | Excl.         |                  |
| C                                  | Allowance to return utility providers property removed from site  | (XX) Item           |      | Incl.         |                  |
| <b>HAZARDOUS MATERIALS REMOVAL</b> |   |                     |      |               |                  |
| D                                  | Allow for the safe removal and disposal of all hazardous materials identified in the Specification or other separate reports including hazardous materials discovered during the course of the demolition works   | (XX) Item           |      | Excl.         |                  |
| <b>DEMOLITION WORKS GENERALLY</b>  |   |                     |      |               |                  |
| E                                  | The Contractor is to carry out the demolition works in accordance with relevant statutory and OH&S requirements, including design of temporary works by appropriately qualified personnel   |                     |      |               |                  |
| F                                  | The impact of all works including demolition, noise, dust and vibration effects on adjoining buildings and properties and their operations are to be submitted and agreed with the Project Manager prior to works commencing  |                     |      |               |                  |
| G                                  | The nature of the works to be demolished are not clearly defined within the tender documents, and consequently, also not clearly defined in this Bill of Quantities. The Contractor should inspect the works to be demolished on site to ensure that the items measured herein are appropriately priced |                     |      |               |                  |
| H                                  | Remove 300mm existing road pavement along Control Line MC01   | (XX) m <sup>2</sup> | 281  | 100           | 28,100           |
| I                                  | Saw cut and removal of existing pavement for services installations under public roadways   | (XX) m <sup>2</sup> | 7    | 300           | 2,100            |
| J                                  | Sawcut existing pavement along Control Line MC01  | (XX) m              | 937  | 20            | 18,740           |
| K                                  | Remove existing overhead LV electrical cable including terminations   | (XX) m              | 956  | 150           | 143,400          |
| L                                  | Remove existing overhead SV electrical cable including terminations   | (XX) m              | 549  | 100           | 54,900           |
| M                                  | Remove existing overhead HV electrical services cable including terminations, stay wires and associated components  | (XX) m              | 907  | 150           | 136,050          |
| N                                  | Remove existing DN100 water mains   | (XX) m              | 3    | 500           | 1,500            |
|                                    |   |                     |      | To Collection | <b>\$434,790</b> |

| Item                                       |  | Unit      | Qty | Rate  | Cost             |
|--|--|-----------|-----|-------|------------------|
| <b>DEMOLITION WORKS GENERALLY (Cont'd)</b> |  |           |     |       |                  |
| A  | Remove existing hydrant point  | (XX) No   | 1   | 1,500 | 1,500            |
| B  | Demolish existing 300 diameter culvert including headwalls                               | (XX) No   | 1   | 500   | 500              |
| C  | Demolish existing twin 600 diameter culvert including associated headwalls and pit       | (XX) No   | 2   | 700   | 1,400            |
| D  | Remove existing timber powerpole and conductors  | (XX) No   | 27  | 1,500 | 40,500           |
| E  | Terminate HV conductors from pole BU-10466   | (XX) No   | 1   | 1,200 | 1,200            |
| F  | Remove conductors from pole 3 (BU-10114) to pole 4 (BU-10128) and terminate connection   | (XX) No   | 1   | 750   | 750              |
| G  | Remove existing distribution pillar  | (XX) No   | 6   | 1,200 | 7,200            |
| H  | Remove conductors from pole 31 (BU-10285) to pole 33 (BU-10467) and terminate connection | (XX) No   | 1   | 750   | 750              |
| I  | Disconnect and remove existing substations   | (XX) Item |     |       | 50,000           |
| J  | Remove existing earth mound  | (XX) Item |     |       | 5,000            |
| To Collection                              |  |           |     |       | <b>\$108,800</b> |

| COLLECTION                | Page | Cost             |
|---------------------------|------|------------------|
|                           | 2/1  |                  |
|                           | 2/2  | \$125,000        |
|                           | 2/3  | \$434,790        |
|                           | 2/4  | \$108,800        |
| 2 - DEMOLITION To Summary |      | <b>\$668,590</b> |

| Item                          | Unit | Qty       | Rate   | Cost  |
|-------------------------------|------|-----------|--|-------|
| <b>GENERALLY</b>              |      |           |  |       |
| <b>Method of Measurement</b>  |      |           |  |       |
| A                             |      |           | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |       |
| B                             |      |           | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |       |
| C                             |      |           | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |       |
| D                             |      |           | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |       |
| E                             |      |           | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |       |
| F                             |      |           | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |       |
| G                             |      |           | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |       |
| <b>Item Coding</b>            |      |           |  |       |
| H                             |      |           | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |       |
| <b>MEASUREMENT AND PRICES</b> |      |           |  |       |
| <b>Specification</b>          |      |           |  |       |
| I                             |      | (SB) Item | The Contractor is referred to the Specification, Drawings and other Contract documents for full descriptions and details of workmanship, materials, etc., related to the work measured in this Bill and shall allow here or in the prices for measured work for all costs incurred therewith   | Incl. |
| <b>Prices</b>                 |      |           |  |       |
|                               |      |           | To Collection  |       |

| Item                                   | Unit  | Qty | Rate          | Cost |
|--|---|-----|---------------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |     |               |      |
| <b>Prices (Cont'd)</b>                 |   |     |               |      |
| A                                      | Prices for Excavation are deemed to include for: <ul style="list-style-type: none"> <li>a. Complying with all requirements, restrictions and recommendations concerning the method of carrying out excavations or backfilling as described by the Specifications and regulations or as required by site conditions</li> <li>b. Engaging services of a Geotechnical Engineer to verify bearing capacities and founding levels</li> <li>c. Excavating in all types of strata except rock as defined in this Section</li> <li>d. Overbreak excavation to footings, etc., and resultant backfilling including formwork</li> <li>e. Levelling bottoms of excavations, grading, trimming, scabbling rock, keeping sides plumb, backfilling, compaction, proof rolling, stockpiling, spoil heaps and multiple handling, disposing of surplus excavated material including any tip charges</li> <li>f. Trimming faces of excavation to receive sprayed concrete retention walls, etc</li> <li>g. Maintaining faces of excavation</li> <li>h. Forming, reforming and removing temporary ramps</li> <li>i. Cleaning out bottoms of bored holes</li> <li>j. Removing and sealing off redundant drainage pipes</li> <li>k. Additional costs of excavating basements in sequences to suit other work (e.g. basement external retaining walls, site retention, etc)</li> <li>l. Provision of samples</li> <li>m. Compaction testing</li> <li>n. Vibration monitoring</li> </ul> |     |               |      |
| B                                      | Prices for Filling are deemed to include for: <ul style="list-style-type: none"> <li>a. Executing in layers</li> <li>b. Rolling, compacting, watering</li> <li>c. Surface and edge treatments of filling and beds</li> <li>d. Testing of samples</li> <li>e. Compaction testing</li> <li>f. Vibration monitoring</li> </ul>   |     |               |      |
| C                                      | Prices for Membranes are deemed to include for: <ul style="list-style-type: none"> <li>a. Lapping, joints and taping</li> <li>b. Wrapping and sealing around service pipes and the like which pass through</li> </ul>   |     |               |      |
| D                                      | Prices for Excavation and Filling shall also be deemed to include for: <ul style="list-style-type: none"> <li>· Breaking out boulders, concrete slabs, footings, foundations, buried tanks, and other such buried structures encountered</li> <li>· Cleaning out excavation prior to further construction work therein</li> <li>· Scarifying surfaces prior to compaction</li> <li>· Providing certified records of measurement</li> <li>· Site restoration</li> <li>· Erosion control measures</li> <li>· Bearing pressure and spoon testing under footings, etc</li> </ul>  |     |               |      |
|  |   |     | To Collection |      |



| Item                                   | Unit  | Qty                 | Rate  | Cost          |                  |
|--|---|---------------------|-------|---------------|------------------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |                     |       |               |                  |
| <b>Prices (Cont'd)</b>                 |   |                     |       |               |                  |
| A                                      | Prices for Underpinning shall be deemed to include for:   |                     |       |               |                  |
|  | a. All matters covered under the 'Prices' clauses as itemised in all other Trade Sections herein  |                     |       |               |                  |
|  | b. All necessary temporary support  |                     |       |               |                  |
| B                                      | Prices for Site Retention shall be deemed to include for:   |                     |       |               |                  |
|  | a. All matters covered under the 'Prices' clauses as itemised in all other Trade Sections herein  |                     |       |               |                  |
|  | b. Additional overpour concrete and reinforcement at tops of bored pier soldiers  |                     |       |               |                  |
|  | c. Washing off and cleaning down exposed surfaces on completion   |                     |       |               |                  |
| C                                      | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Bill and shall allow against each clause or item for all costs in connection therewith |                     |       |               |                  |
| D                                      | If any clause, item or quantity is not priced it shall be deemed that the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity                     |                     |       |               |                  |
| <b>Work in Other Trades</b>            |   |                     |       |               |                  |
| E                                      | The Contractor is referred to the External Works and Landscaping trade for excavation associated with external works  |                     |       |               |                  |
| <b>ALLOWANCE ITEMS</b>                 |   |                     |       |               |                  |
| F                                      | Allow for removal and grubbing of existing trees, subject to future detail  | (XP) No             | 419   | 200           | 83,800           |
| G                                      | Allowance for additional removal of trees in area as required   | (XP) m <sup>2</sup> | 6,816 | 25            | 170,400          |
| H                                      | Allow for any dilapidation surveys of adjacent buildings and properties that may become affected by site works, all as may be required by the Specification, drawings or other contract documentation     | (SB) Item           |       |               | 75,000           |
| I                                      | Allow for excavation for blinding concrete both to seal bottoms of excavation and to achieve founding levels  | (SB) Item           |       |               | Excl.            |
| J                                      | Allow for protecting trees and shrubs to be retained  | (XP) Item           |       |               | 50,000           |
| K                                      | Allow for additional cost of excavating in contaminated ground  | (XP) Item           |       |               | Excl.            |
|  |   |                     |       | To Collection | <b>\$379,200</b> |

| Item                       |  | Unit                | Qty   | Rate | Cost               |
|----------------------------|--|---------------------|-------|------|--------------------|
| <b>SITE PREPARATION</b>    |  |                     |       |      |                    |
| A                          | Strip topsoil from roads, footpaths, pathways & batters and regrade areas (where applicable) 200mm thick to stockpile, quantity as advised by LMCC via email correspondence on 03.09.2020  | (XP) m <sup>3</sup> | 5,550 | 4    | 22,200             |
| B                          | Site clearance including removal of vegetation, undergrowth, bushes, hedges and rubbish, etc. (In 58,765m <sup>2</sup> )   | (XP) Item           |       |      | 50,000             |
| <b>BULK EXCAVATION</b>     |  |                     |       |      |                    |
| C                          | Cut to subgrade level or base of select subgrade layer to fill, place, trim and compact, quantity as advised by LMCC via email correspondence on 03.09.2020  | (XP) m <sup>3</sup> | 2,730 | 12   | 32,760             |
| D                          | Cut to subgrade level or base of select subgrade layer off-site disposal as directed by superintendent, quantity as advised by LMCC via email correspondence on 03.09.2020   | (XP) m <sup>3</sup> | 8,215 | 190  | 1,560,850          |
| E                          | Extra over cut to subgrade level or base of select subgrade layer off-site disposal for off-site disposal of GSW allowed 20%   | (XP) m <sup>3</sup> | 1,643 | 500  | 821,500            |
| F                          | Load, cart, place, trim and compact trench spoil as per superintendent instruction, quantity as advised by LMCC via email correspondence on 03.09.2020   | (XP) m <sup>3</sup> | 4,421 | 30   | 132,630            |
| G                          | Allow for the additional cost of excavating in rock (for the purposes of this item rock is defined as any non-rippable natural or artificial material encountered in excavations which cannot be removed until broken up by mechanical means such as jack-hammers or percussion drills - it excludes rippable rock which can be removed by a single tine "D9" ripper or similar equipment) | (XP) m <sup>3</sup> | 1,095 | 100  | 109,500            |
| <b>DETAILED EXCAVATION</b> |  |                     |       |      |                    |
| H                          | Excavation to trenches for services installations as per superintendent instruction, quantity as advised by LMCC via email correspondence on 03.09.2020  | (XP) m <sup>3</sup> | 4,421 | 120  | 530,520            |
| I                          | Allow for the additional cost of excavating in rock (for the purposes of this item rock is defined as any non-rippable natural or artificial material encountered in excavations which cannot be removed until broken up by mechanical means such as jack-hammers or percussion drills - it excludes rippable rock which can be removed by a single tine "D9" ripper or similar equipment) | (XP) m <sup>3</sup> | 443   | 180  | 79,740             |
| To Collection              |  |                     |       |      | <b>\$3,339,700</b> |

| Item             |  | Unit                | Qty    | Rate | Cost             |
|------------------|--|---------------------|--------|------|------------------|
| <b>FILLING</b>   |  |                     |        |      |                  |
| A                | Place, spread, trim and compact topsoil from stockpile - 250mm thick to footpaths, batters and regrade areas, parks, etc, quantity as advised by LMCC via email correspondence on 03.09.2020 | (XP) m <sup>3</sup> | 5,550  | 7    | 38,850           |
| B                | Place, spread, trim and compact topsoil to turfed areas  | (XP) Item           |        |      | Incl.            |
| <b>SUB-BASES</b> |  |                     |        |      |                  |
| C                | Subbase course, 280mm thick including compaction   | (XR) m <sup>2</sup> | 14,791 | 30   | 443,730          |
| D                | Subbase course, 405mm thick including compaction   | (XR) m <sup>2</sup> | 3,091  | 40   | 123,640          |
| E                | 50mm sand blinding layer to footpaths  | (XR) m <sup>2</sup> | 2,862  | 5    | 14,310           |
| To Collection    |  |                     |        |      | <b>\$620,530</b> |

| COLLECTION                  | Page | Cost               |
|-----------------------------|------|--------------------|
|                             | 3/1  |                    |
|                             | 3/2  |                    |
|                             | 3/3  | \$379,200          |
|                             | 3/4  | \$3,339,700        |
|                             | 3/5  | \$620,530          |
| 3 - GROUND WORKS To Summary |      | <b>\$4,339,430</b> |

| Item                          | Unit | Qty  | Rate   | Cost |
|-------------------------------|------|------|--|------|
| <b>GENERALLY</b>              |      |      |  |      |
| <b>Method of Measurement</b>  |      |      |  |      |
| A                             |      |      | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |      |
| B                             |      |      | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |      |
| C                             |      |      | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |      |
| D                             |      |      | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |      |
| E                             |      |      | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |      |
| F                             |      |      | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |      |
| G                             |      |      | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |      |
| <b>Item Coding</b>            |      |      |  |      |
| H                             |      |      | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |      |
| <b>MEASUREMENT AND PRICES</b> |      |      |  |      |
| <b>Specification</b>          |      |      |  |      |
| I                             |      | (XR) | The Contractor is referred to the Specification, Drawings and other Contract documents for full descriptions and details of workmanship, materials, etc., related to the work measured in this Bill and shall allow here or in the prices for measured work for all costs incurred therewith   | Nil  |
| <b>Prices</b>                 |      |      |  |      |
|                               |      |      | To Collection  |      |

| Item                                   | Unit  | Qty                 | Rate   | Cost          |                  |
|--|---|---------------------|--------|---------------|------------------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |                     |        |               |                  |
| <b>Prices (Cont'd)</b>                 |   |                     |        |               |                  |
| A                                      | Prices for Roadworks generally are deemed to include for:   |                     |        |               |                  |
|  | a. Complying with all 'Prices Shall Include For' clauses contained in this document   |                     |        |               |                  |
|  | b. Engaging services of Geotechnical\ Engineer to verify bearing capacities\ and founding levels  |                     |        |               |                  |
|  | c. Design and shop drawings   |                     |        |               |                  |
|  | d. Testing, curing and protection of concrete and finished surfaces   |                     |        |               |                  |
|  | e. Provision of samples and prototypes  |                     |        |               |                  |
| B                                      | Prices for Paving are deemed to include for:  |                     |        |               |                  |
|  | a. Grading, rolling and compacting to required falls, crossfalls cambers and other profiles   |                     |        |               |                  |
| C                                      | Prices for Kerbs, Channels, Spoon Drains, etc. are deemed to include for:   |                     |        |               |                  |
|  | a. Kerbs, channels, spoon drains, etc. being both in straight or curved runs  |                     |        |               |                  |
|  | b. Transitions, junctions, joints and the like  |                     |        |               |                  |
| D                                      | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Schedule and shall allow against each clause or item for all costs in connection therewith |                     |        |               |                  |
| E                                      | If any clause, item or quantity is not priced it shall be deemed that the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity                         |                     |        |               |                  |
| <b>ALLOWANCE ITEMS</b>                 |   |                     |        |               |                  |
| F                                      | Allowance to match new surface to existing  | (XR) m              | 937    | 50            | 46,850           |
| G                                      | Allow for keeping excavations free from water   | (XR) Item           |        |               | 25,000           |
| H                                      | Allow for protecting trees and shrubs to be retained  | (XR) Item           |        |               | 50,000           |
| I                                      | Allow for excavation and filling to soft spots  | (XR) Item           |        |               | 100,000          |
| J                                      | Allow for blinding concrete and its excavation both to seal bottoms of excavation and to achieve founding levels  | (XR) Item           |        |               | Excl.            |
| <b>ROAD PAVING</b>                     |   |                     |        |               |                  |
| K                                      | Basecourse, 150mm thick including compaction  | (XR) m <sup>2</sup> | 16,330 | 20            | 326,600          |
| L                                      | Wearing course 45mm thick asphaltic concrete  | (XR) m <sup>2</sup> | 3,098  | 35            | 108,430          |
| M                                      | Wearing course 30mm thick asphaltic concrete  | (XR) m <sup>2</sup> | 13,239 | 25            | 330,975          |
|  |   |                     |        | To Collection | <b>\$987,855</b> |

| Item                                      |  | Unit                | Qty    | Rate  | Cost             |
|---|--|---------------------|--------|-------|------------------|
| <b>ROAD PAVING (Cont'd)</b>               |  |                     |        |       |                  |
| A   | Primeseal, assume 7mm  | (XR) m <sup>2</sup> | 16,330 | 7     | 114,310          |
| B   | N32 concrete slab 200mm thick, SL82 mesh top and bottom  | (XR) m <sup>2</sup> | 77     | 140   | 10,780           |
| C   | Selected subgrade, 200mm thick as advised by Douglas Partners Report on Geotechnical Investigation dated 8/10/2018 | (XR) m <sup>2</sup> | 21,504 | 14    | 301,056          |
| <b>KERBS, CHANNELS, SPOON DRAINS, ETC</b> |  |                     |        |       |                  |
| D   | RT kerb, as per LMCC Drawing EGSD-101 Version 4 dated 29.07.2016   | (XR) m              | 2,830  | 100   | 283,000          |
| E   | SA kerb, as per LMCC Drawing EGSD-101 Version 4 dated 29.07.2016   | (XR) m              | 1,528  | 120   | 183,360          |
| F   | SB dish drain  | (XR) m              | 73     | 300   | 21,900           |
| G   | Driveway layback, allowed to SA kerb only  | (XR) No             | 77     | 1,000 | 77,000           |
| <b>LINEMARKING AND SIGNAGE</b>            |  |                     |        |       |                  |
| H   | Linemarking TB, Give Way line  | (XR) m              | 83     | 16    | 1,328            |
| I   | Linemarking BB, Barrier line   | (XR) m              | 47     | 5     | 235              |
| J   | Linemarking TB1, Give Way line   | (XR) m              | 15     | 16    | 240              |
| To Collection                             |  |                     |        |       | <b>\$993,209</b> |

| COLLECTION               | Page | Cost               |
|--------------------------|------|--------------------|
|                          | 4/1  |                    |
|                          | 4/2  | \$987,855          |
|                          | 4/3  | \$993,209          |
| 4 - ROADWORKS To Summary |      | <b>\$1,981,064</b> |



| Item                          | Unit   | Qty | Rate          | Cost |
|-------------------------------|--|-----|---------------|------|
| <b>GENERALLY</b>              |  |     |               |      |
| <b>Method of Measurement</b>  |  |     |               |      |
| A                             | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |     |               |      |
| B                             | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |     |               |      |
| C                             | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |     |               |      |
| D                             | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |     |               |      |
| E                             | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |     |               |      |
| F                             | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |     |               |      |
| G                             | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |     |               |      |
| <b>Item Coding</b>            |  |     |               |      |
| H                             | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |     |               |      |
| <b>MEASUREMENT AND PRICES</b> |  |     |               |      |
| <b>Prices</b>                 |  |     |               |      |
| I                             | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Schedule and shall allow against each clause or item for all costs in connection therewith  |     |               |      |
| J                             | If any clause, item or quantity is not priced it shall be deemed that the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity  |     |               |      |
| K                             | The Contractor is referred to the relevant trades for the measurement of items having Prime Cost Rates and Equivalent Monetary Rates   |     |               |      |
|                               |  |     | To Collection |      |

| Item  | Unit  | Qty  | Rate | Cost               |
|---|---|------|------|--------------------|
| <b>PROVISIONAL SUMS AND EQUIVALENT MONETARY SUMS</b>  |   |      |      |                    |
| A   | Provisional and Equivalent Monetary Sums are defined as sums provided for works or costs, the extent of which cannot be accurately defined or foreseen at the time of issue of the Tender documents. Such Sums are deemed to include labour and materials and all things required to produce the finished item or works in place but excluding Contractor's profit and attendance |      |      |                    |
| B   | (XC)  | Item |      | 110,400            |
| Provisional sum allowance for connection of NBN services to lots; \$600 per lot as advised by LMCC via email 28/08/2020   |   |      |      |                    |
| C   | (PL)  | Item |      | 55,200             |
| Provisional sum allowance for works as executed plans; \$300 per lot as advised by LMCC via email 28/08/2020  |   |      |      |                    |
| D   | (HS)  | Item |      | 13,800             |
| Provisional sum allowance for Hunter Water Corporation inspections; \$75 per lot as advised by LMCC via email dated 28/08/2020  |   |      |      |                    |
| E   | (PR)  | Item |      | 804,400            |
| Provisional sum allowance for additional works resulting from design development not otherwise included in the trade sections   |   |      |      |                    |
| F   | (PL)  | Item |      | 5,000              |
| Provisional sum allowance for Ecologist during tree clearance; as advised by LMCC via email 28/08/2020  |   |      |      |                    |
| G   | (XG)  | Item |      | 100,000            |
| Provisional sum allowance for Jemena Lands Coordinator and Jemena Representative; as advised by LMCC via email 28/08/2020 based on 10 month programme at \$10,000 per month |   |      |      |                    |
| H   | (XE)  | Item |      | 8,000              |
| Provisional sum allowance for Ausgrid fees prior to commencement; as advised by LMCC 23/10/2020   |   |      |      |                    |
| To Collection   |   |      |      | <b>\$1,096,800</b> |

|                                   | Page       | Cost               |
|-----------------------------------|------------|--------------------|
| <b>COLLECTION</b>                 |            |                    |
|                                   | 5/1        |                    |
|                                   | 5/2        | \$1,096,800        |
| 5 - PROVISIONAL AND MONETARY SUMS | To Summary | <b>\$1,096,800</b> |

| Item                          | Unit | Qty       | Rate   | Cost |
|-------------------------------|------|-----------|--|------|
| <b>GENERALLY</b>              |      |           |  |      |
| <b>Method of Measurement</b>  |      |           |  |      |
| A                             |      |           | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |      |
| B                             |      |           | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |      |
| C                             |      |           | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |      |
| D                             |      |           | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |      |
| E                             |      |           | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |      |
| F                             |      |           | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |      |
| G                             |      |           | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |      |
| <b>Item Coding</b>            |      |           |  |      |
| H                             |      |           | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |      |
| <b>MEASUREMENT AND PRICES</b> |      |           |  |      |
| <b>Specification</b>          |      |           |  |      |
| I                             |      | (PD) Item | The Contractor is referred to the Specification, Drawings and other Contract documents for full descriptions and details of workmanship, materials, etc., related to the work measured in this Bill and shall allow here or in the prices for measured work for all costs incurred therewith   | Nil  |
| <b>Prices</b>                 |      |           |  |      |
| J                             |      |           | Prices for Plant, Appliances and Equipment shall be deemed to include for: <ul style="list-style-type: none"> <li>a. Vibration mounts</li> <li>b. Flexible connections</li> <li>c. Accessories</li> <li>d. Fixings and supports</li> </ul>   |      |
|                               |      |           | To Collection  |      |

| Item                                   | Unit  | Qty | Rate          | Cost |
|--|---|-----|---------------|------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |     |               |      |
| <b>Prices (Cont'd)</b>                 |   |     |               |      |
| A                                      | Prices for Sanitary Fixtures and Taps shall be deemed to include for: <ul style="list-style-type: none"> <li>a. Connectors, brackets, jointing materials, fixings and supports</li> <li>b. Short pipework connections including fittings</li> <li>c. Traps</li> </ul>   |     |               |      |
| B                                      | Prices for Pipework shall be deemed to include for: <ul style="list-style-type: none"> <li>a. Fittings on pipe up to and including 50mm</li> <li>b. Excavation for in ground services</li> <li>c. Maintaining faces of excavation including additional excavation required for same, keeping excavations free from water, bedding and backfilling with materials as specified, consolidating, disposal of surplus excavated material and protective wrapping, for pipework in trenches</li> <li>d. Pipe joints including flanges, sockets, running joints, cutting and waste for fittings on pipes and for extra joints</li> <li>e. Back nuts, nipples</li> <li>f. Inspection openings to pipe fittings</li> <li>g. Expansion loops and expansion joints</li> <li>h. Joints between pipework of differing materials and to fittings and appliances</li> <li>i. Fixing to all backgrounds including incidental fittings, clips, saddles, brackets, straps, hangers, screws, nails, power fastenings, anchors, bolts and the like</li> <li>j. Sleeves, wall flanges, etc</li> <li>k. Cutting and forming holes and penetrations including sealing and caulking for required fire and acoustic ratings</li> <li>l. Chasing into structure where required</li> <li>m. Provision of all hoggings, etc., for fixtures, etc</li> <li>n. Pipeline identification</li> </ul> |     |               |      |
| C                                      | Prices for Pipework shall also be deemed to include for: <ul style="list-style-type: none"> <li>· Bends and junctions of all sizes on flexible pipes</li> <li>· Junctions with branches at the required angle to suit pipe branch lines or for bends adjacent to junctions to give the required angle, (bends have not been measured immediately adjacent to junction branches)</li> <li>· Concrete anchor blocks, thrust blocks, and the like and holding down bolts</li> <li>· Concrete bases to standpipes, traps, gullies, upturn bends and the like</li> <li>· Concrete surrounds to vertical pipes in the ground</li> <li>· Fire collars and the like</li> <li>· Cover plates</li> <li>· Gauges, thermostats, thermometers, etc</li> </ul>  |     |               |      |
| D                                      | Prices for Pits, Sumps and the like shall be deemed to include for: <ul style="list-style-type: none"> <li>· Openings in pit walls to suit pipes and building in pipe ends</li> <li>· Benching to base of pits</li> <li>· Step irons</li> </ul>   |     |               |      |
|  |   |     | To Collection |      |

| Item                                   | Unit  | Qty  | Rate          | Cost             |
|--|---|------|---------------|------------------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |      |               |                  |
| <b>Prices (Cont'd)</b>                 |   |      |               |                  |
| A                                      | Prices for Hydraulic Services shall also be deemed to include for all things listed in the Prices clauses contained in the following trades:  |      |               |                  |
|  | <ul style="list-style-type: none"> <li>· Groundworks</li> <li>· Concrete</li> <li>· Formwork</li> <li>· Reinforcement</li> </ul>  |      |               |                  |
| B                                      | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Bill and shall allow against each clause or item for all costs in connection therewith |      |               |                  |
| C                                      | If any clause, item or quantity is not priced it shall be deemed that the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity                     |      |               |                  |
| <b>Work in Other Trades</b>            |   |      |               |                  |
| D                                      | The Contractor is referred to the External Works and Landscaping trade for Irrigation Installations associated with landscaping works   |      |               |                  |
| E                                      | The Contractor is referred to the Demolition trade for Demolition associated with Hydraulics  |      |               |                  |
| <b>ALLOWANCE ITEMS</b>                 |   |      |               |                  |
| F                                      | Allow for design and shop drawings  | (HS) | Item          | Incl.            |
| G                                      | Allow for engineering   | (HS) | Item          | Incl.            |
| H                                      | Allow for as-built drawings and manuals   | (HS) | Item          | Incl.            |
| I                                      | Allow for provision of prototypes and samples   | (HS) | Item          | Incl.            |
| J                                      | Allow for giving notices, obtaining permits and completion certificates, paying fees and charges  | (HS) | Item          | 20,000           |
| K                                      | Allow for painting and other protective and decorative treatments   | (HS) | Item          | Incl.            |
| L                                      | Allow for testing and commissioning   | (HS) | Item          | 231,700          |
| M                                      | Allow for preventative maintenance  | (HS) | Item          | Incl.            |
| N                                      | Allow for spares  | (HS) | Item          | Incl.            |
| O                                      | Allow for sterilising   | (HS) | Item          | Incl.            |
| P                                      | Allow for providing guarantees  | (HS) | Item          | Incl.            |
|  |   |      | To Collection | <b>\$251,700</b> |

| Item                                | Unit   | Qty       | Rate  | Cost             |         |
|-------------------------------------|--|-----------|-------|------------------|---------|
| <b>ALLOWANCE ITEMS (Cont'd)</b>     |  |           |       |                  |         |
| A                                   | Allow for builders work in connection with hydraulic services  | (HS) Item |       | Excl.            |         |
| B                                   | Allow for detailed excavation, trenching, backfilling etc to stormwater drainage items as necessary  | (HS) Item |       | Incl.            |         |
| C                                   | Connection to existing water main  | (HS) Lot  | 1     | 7,500            | 7,500   |
| <b>HYDRAULICS SERVICES</b>          |  |           |       |                  |         |
| D                                   | Allow for the supply, installation, testing and operational maintenance of the hydraulic services together with all associated minor works, to cover the whole of the works described in the Hydraulic Services Specification and related drawings including any P.C. / Provisional Sums listed therein and all sanitary fixtures and tapware scheduled by the Architect | (HS) Item |       | Incl.            |         |
| E                                   | Allow for Contractor's allowance and profit on the foregoing   | (HS) Item |       | Incl.            |         |
| F                                   | Allow for general attendance on Specialist executing the above works, all as listed in the General Principles trade  | (HS) Item |       | Excl.            |         |
| G                                   | Allow for all other attendance and Contractor's work items required to be executed in connection with the Specialist executing the above works, all as described in the Hydraulic Services Specification and as shown on the Hydraulic Services drawings   | (HS) Item |       | Incl.            |         |
| <b>EXTERNAL WATER SUPPLY</b>        |  |           |       |                  |         |
| H                                   | Water mains; DN150 including bends and connections   | (HS) m    | 2,492 | 80               | 199,360 |
| I                                   | Water mains; DN100 including bends and connections   | (HS) m    | 1,089 | 70               | 76,230  |
| J                                   | Single service connection pipework   | (HS) m    | 140   | 80               | 11,200  |
| K                                   | Split service connection pipework  | (HS) m    | 583   | 80               | 46,640  |
| L                                   | Hydrant point  | (HS) No   | 39    | 1,500            | 58,500  |
| M                                   | Valve complete   | (HS) No   | 28    | 1,500            | 42,000  |
| <b>EXTERNAL STORMWATER DRAINAGE</b> |  |           |       |                  |         |
| N                                   | Stormwater pipe, assumed 150mm uPVC pipework installed in trench   | (HS) m    | 249   | 100              | 24,900  |
| To Collection                       |  |           |       | <b>\$466,330</b> |         |

| Item   |  | Unit    | Qty   | Rate   | Cost               |
|--|--|---------|-------|--------|--------------------|
| <b>EXTERNAL STORMWATER DRAINAGE (Cont'd)</b> |  |         |       |        |                    |
| A  | Stormwater pipe, assumed 225mm uPVC pipework installed in trench | (HS) m  | 630   | 135    | 85,050             |
| B  | Stormwater pipe, assumed 300mm uPVC pipework installed in trench | (HS) m  | 459   | 215    | 98,685             |
| C  | Stormwater pipe, assumed 375mm uPVC pipework installed in trench | (HS) m  | 1,588 | 255    | 404,940            |
| D  | Stormwater pipe, assumed 450mm RCP pipework installed in trench  | (HS) m  | 250   | 385    | 96,250             |
| E  | Stormwater pipe, assumed 525mm RCP pipework installed in trench  | (HS) m  | 317   | 420    | 133,140            |
| F  | Stormwater pipe, assumed 600mm RCP pipework installed in trench  | (HS) m  | 255   | 480    | 122,400            |
| G  | Stormwater pipe, assumed 675mm RCP pipework installed in trench  | (HS) m  | 12    | 585    | 7,020              |
| H  | Box culvert, 1,200mm x 600mm                                     | (HS) m  | 19    | 1,050  | 19,950             |
| I  | Box culvert, 1,500mm x 600mm                                     | (HS) m  | 55    | 1,500  | 82,500             |
| J  | Box culvert, 1,800mm x 600mm                                     | (HS) m  | 11    | 1,874  | 20,614             |
| K  | Stormwater pit, 600mm x 600mm grated surface inlet pit           | (HS) No | 26    | 3,000  | 78,000             |
| L  | Stormwater pit, 600mm x 900mm grated surface inlet pit           | (HS) No | 50    | 4,000  | 200,000            |
| M  | Stormwater pit, 900mm x 900mm grated surface inlet pit           | (HS) No | 24    | 4,200  | 100,800            |
| N  | Stormwater pit, 900mm x 900mm junction pit                       | (HS) No | 3     | 3,200  | 9,600              |
| O  | Stormwater pit, 1,500mm x 1,500mm grated surface inlet pit       | (HS) No | 2     | 10,000 | 20,000             |
| P  | Concrete headwall including outlet scour protection              | (HS) No | 5     | 15,000 | 75,000             |
| Q  | Inlet pit, 2.4m precast lintel                                   | (HS) No | 84    | 5,500  | 462,000            |
| R  | Inlet pit, 3.0m precast lintel                                   | (HS) No | 13    | 6,000  | 78,000             |
| S  | Ecosol GPT 4450, gross pollutant trap                            | (HS) No | 3     | 49,000 | 147,000            |
| T  | Ecosol GPT 4300, gross pollutant trap                            | (HS) No | 1     | 25,000 | 25,000             |
| U  | Ecosol GPT 4600, gross pollutant trap                            | (HS) No | 1     | 53,000 | 53,000             |
| To Collection                                |  |         |       |        | <b>\$2,318,949</b> |



| Item   |  | Unit      | Qty   | Rate    | Cost               |
|--|--|-----------|-------|---------|--------------------|
| <b>EXTERNAL STORMWATER DRAINAGE (Cont'd)</b> |  |           |       |         |                    |
| A  | OSD tank 01; 45m x 5.5m x 2m deep  | (HS) Lot  | 1     | 180,000 | 180,000            |
| B  | OSD tank 02; 35m x 5.5m x 1.7m deep  | (HS) Lot  | 1     | 140,000 | 140,000            |
| C  | OSD tank 03; 25m x 5.5m x 0.8m deep  | (HS) Lot  | 1     | 90,000  | 90,000             |
| D  | OSD tank 04; 25m x 8m x 1.35m deep   | (HS) Lot  | 1     | 130,000 | 130,000            |
| E  | Allowance to form North and South swales; no details   | (HS) Item |       |         | 20,000             |
| <b>Work in Other Trades</b>                  |  |           |       |         |                    |
| F  | The Contractor is referred to the Ground Works trade for details regarding excavation to trenches for services installations |           |       |         | Nil                |
| <b>EXTERNAL SEWER DRAINAGE</b>               |  |           |       |         |                    |
| G  | Sewer mains; DN225 uPVC  | (XD) m    | 4,472 | 230     | 1,028,560          |
| H  | Sewer mains; DN150 uPVC  | (XD) m    | 462   | 165     | 76,230             |
| I  | Precast maintenance chamber  | (XD) No   | 24    | 2,500   | 60,000             |
| J  | Maintenance holes  | (XD) No   | 28    | 3,500   | 98,000             |
| K  | Terminal maintenance shaft   | (XD) No   | 19    | 2,500   | 47,500             |
| L  | Connection to lots   | (XD) No   | 159   | 600     | 95,400             |
| To Collection                                |  |           |       |         | <b>\$1,965,690</b> |

| COLLECTION                | Page | Cost               |
|---------------------------|------|--------------------|
|                           | 6/1  |                    |
|                           | 6/2  |                    |
|                           | 6/3  | \$251,700          |
|                           | 6/4  | \$466,330          |
|                           | 6/5  | \$2,318,949        |
|                           | 6/6  | \$1,965,690        |
| 6 - HYDRAULICS To Summary |      | <b>\$5,002,669</b> |

| Item                          | Unit   | Qty  | Rate          | Cost |
|-------------------------------|--|--|---------------|------|
| <b>GENERALLY</b>              |  |  |               |      |
| <b>Method of Measurement</b>  |  |  |               |      |
| A                             | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |  |               |      |
| B                             | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |  |               |      |
| C                             | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |  |               |      |
| D                             | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |  |               |      |
| E                             | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |  |               |      |
| F                             | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |  |               |      |
| G                             | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |  |               |      |
| <b>Item Coding</b>            |  |  |               |      |
| H                             | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |  |               |      |
| <b>MEASUREMENT AND PRICES</b> |  |  |               |      |
| <b>Specification</b>          |  |  |               |      |
| I                             | (LP) Item  | The Contractor is referred to the Specification, Drawings and other Contract documents for full descriptions and details of workmanship, materials, etc., related to the work measured in this Bill and shall allow here or in the prices for measured work for all costs incurred therewith |               |      |
| <b>Prices</b>                 |  |  |               |      |
| J                             | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Bill and shall allow against each clause or item for all costs in connection therewith  |  |               |      |
| K                             | If any clause, item or quantity is not priced it shall be deemed that either the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity   |  |               |      |
|                               |  |  | To Collection |      |

| Item                                   | Unit  | Qty       | Rate | Cost               |           |
|--|---|-----------|------|--------------------|-----------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |           |      |                    |           |
| <b>Work in Other Trades</b>            |   |           |      |                    |           |
| A                                      | The Contractor is referred to the Groundworks trade for Excavation associated with Electrical Installations   |           |      |                    |           |
| B                                      | The Contractor is referred to the Demolition trade for Demolition associated with Electrical Installations  |           |      |                    |           |
| <b>ALLOWANCE ITEMS</b>                 |   |           |      |                    |           |
| C                                      | Allow for design and shop drawings  | (XE) Item |      | Incl.              |           |
| D                                      | Allow for engineering   | (XE) Item |      | Incl.              |           |
| E                                      | Allow for as-built drawings and manuals   | (XE) Item |      | Incl.              |           |
| F                                      | Allow for provision of prototypes and samples   | (XE) Item |      | Incl.              |           |
| G                                      | Allow for giving notices, obtaining permits and completion certificates, paying fees and charges  | (XE) Item |      | 50,000             |           |
| H                                      | Allow for painting and other protective and decorative treatments   | (XE) Item |      | 100,000            |           |
| I                                      | Allow for testing and commissioning   | (XE) Item |      | 234,200            |           |
| J                                      | Allow for spares  | (XE) Item |      | Incl.              |           |
| K                                      | Allow for builders work in connection with electrical installations   | (XE) Item |      | Excl.              |           |
| <b>ELECTRICAL INSTALLATIONS</b>        |   |           |      |                    |           |
| L                                      | Allow for the supply, installation, testing and operational maintenance of the electrical services together with all associated minor works, to cover the whole of the works described in the Electrical Services Specification and related drawings including any P.C./Provisional Sums listed therein | (XE) Item |      | Incl.              |           |
| M                                      | Allow for Contractor's allowance and profit on the foregoing  | (XE) Item |      | Incl.              |           |
| N                                      | Allow for general attendance on Specialist executing the above works, all as listed in the General Principles trade   | (XE) Item |      | Incl.              |           |
| O                                      | Allow for all other attendance and Contractor's work items required to be executed in connection with the Specialist executing the above works  | (XE) Item |      | Incl.              |           |
| P                                      | Kiosk substation, 800kVA  | (XE) Lot  | 2    | 500,000            | 1,000,000 |
| To Collection                          |   |           |      | <b>\$1,384,200</b> |           |

| Item                                     |   | Unit    | Qty   | Rate   | Cost               |
|--|---|---------|-------|--------|--------------------|
| <b>ELECTRICAL INSTALLATIONS (Cont'd)</b> |   |         |       |        |                    |
| A  | Relocate conductors from pole 2 (BU-17034) to pole 1 (BU-10466)   | (XE) No | 1     | 10,000 | 10,000             |
| B  | Underground high voltage cable; 11kV 400mm <sup>2</sup> AL3 TRXQ 35 CU(WS) HV cabling including joints, terminations and conduit installed in trench        | (XE) m  | 1,308 | 230    | 300,840            |
| C  | Underground low voltage cable; 415v 240mm <sup>2</sup> AL4 XQ Z / SAC LV cabling including joints, terminations and conduit installed in trench             | (XE) m  | 4,457 | 60     | 267,420            |
| D  | Underground low voltage cable; 4 x 415v 185mm <sup>2</sup> CU1 XQ Z LV cabling including joints, terminations and conduit installed in trench               | (XE) m  | 644   | 220    | 141,680            |
| E  | Underground street light cable; assumed 16mm <sup>2</sup> Cu XLPE cable including joints, terminations and conduit installed in trench as per Ausgrid NS119 | (XE) m  | 715   | 40     | 28,600             |
| F  | Underground service cable; assumed 25mm <sup>2</sup> Cu XLPE cable including conduit installed in trench  | (XE) m  | 1,117 | 40     | 44,680             |
| G  | Underground to overhead connection  | (XE) No | 4     | 10,000 | 40,000             |
| H  | Allowance for termination of service cable to residential lots  | (XE) No | 183   | 200    | 36,600             |
| I  | Street lighting, including pole, footings and luminaire; no details   | (XE) No | 42    | 4,100  | 172,200            |
| J  | Timber power pole including connections and footings  | (XE) No | 3     | 15,000 | 45,000             |
| K  | Distribution pillar   | (XE) No | 96    | 1,000  | 96,000             |
| To Collection                            |   |         |       |        | <b>\$1,183,020</b> |

|   | Page | Cost               |
|---|------|--------------------|
| <b>COLLECTION</b>                       |      |                    |
|   | 7/1  |                    |
|   | 7/2  | \$1,384,200        |
|   | 7/3  | \$1,183,020        |
| 7 - ELECTRICAL INSTALLATIONS To Summary |      | <b>\$2,567,220</b> |

| Item                          | Unit | Qty | Rate   | Cost |
|-------------------------------|------|-----|--|------|
| <b>GENERALLY</b>              |      |     |  |      |
| <b>Method of Measurement</b>  |      |     |  |      |
| A                             |      |     | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |      |
| B                             |      |     | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |      |
| C                             |      |     | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |      |
| D                             |      |     | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |      |
| E                             |      |     | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |      |
| F                             |      |     | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |      |
| G                             |      |     | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |      |
| <b>Item Coding</b>            |      |     |  |      |
| H                             |      |     | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |      |
| <b>MEASUREMENT AND PRICES</b> |      |     |  |      |
| <b>Prices</b>                 |      |     |  |      |
| I                             |      |     | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Bill and shall allow against each clause or item for all costs in connection therewith  |      |
| J                             |      |     | If any clause, item or quantity is not priced it shall be deemed that the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity  |      |
| <b>GENERAL PRELIMINARIES</b>  |      |     |  |      |
| <b>Specification</b>          |      |     |  |      |
|                               |      |     | To Collection  |      |

| Item   | Unit   | Qty  | Rate          | Cost               |
|--|--|------|---------------|--------------------|
| <b>GENERAL PRELIMINARIES (Cont'd)</b>                        |  |      |               |                    |
| <b>Specification (Cont'd)</b>                                |  |      |               |                    |
| A  | The Contractor is referred to the Specification, Drawings and other Contract documents for full descriptions and details of workmanship, materials, etc., related to the work measured in this Bill and shall allow here or in the prices for measured work for all costs incurred therewith | (PR) | Item          | Nil                |
| <b>Names of Parties</b>                                      |  |      |               |                    |
| B  | Notwithstanding the requirements of clause 2.1.1 of the Rules for Construction Measurement, the names of parties is not given - the Contractor is referred to the proposed Contract Documents for such information   |      |               |                    |
| <b>PRELIMINARIES, CONDITIONS OF CONTRACT, TENDERING, ETC</b> |  |      |               |                    |
| <b>Preliminaries</b>   |  |      |               |                    |
| C  | For full particulars of Preliminaries, the Contractor is referred to the Specification and shall allow here for all costs in connection therewith  | (PR) | Item          | 1,351,300          |
| D  | Allowance for staging of works   | (PR) | Item          | Excl.              |
| E  | Allowance for traffic control  | (PR) | Item          | 500,000            |
| F  | Allowance for accomodation of residents for duration of works  | (PR) | Item          | Excl.              |
| G  | Allowance for COVID preliminaries  | (PR) | Item          | 26,600             |
| H  | Where any of the clauses are time related the Contractor shall break down the item cost into appropriate sub-divisions such as establishment, running and removal costs, etc   |      |               |                    |
| <b>General Conditions of Contract</b>                        |  |      |               |                    |
| I  | For full particulars of General Conditions of Contract, the Contractor is referred to the proposed Contract Documents and shall allow here for all costs in connection therewith   | (PR) | Item          | Excl.              |
| J  | Where any of the clauses are time related the Contractor shall break down the item cost into appropriate sub-divisions such as establishment, running and removal costs, etc   |      |               |                    |
| <b>Contract Conditions of Particular Application</b>         |  |      |               |                    |
| K  | For full particulars of Contract Conditions of Particular Application, the Contractor is referred to the proposed Contract Documents and shall allow here for all costs in connection therewith  | (PR) | Item          | Incl.              |
|  |  |      | To Collection | <b>\$1,877,900</b> |



| Item  | Unit  | Qty  | Rate          | Cost  |
|---|---|------|---------------|-------|
| <b>PRELIMINARIES, CONDITIONS OF CONTRACT, TENDERING, ETC (Cont'd)</b> |   |      |               |       |
| <b>Contract Conditions of Particular Application (Cont'd)</b>         |   |      |               |       |
| A   | Where any of the clauses are time related the Contractor shall break down the item cost into appropriate sub-divisions such as establishment, running and removal costs, etc  |      |               |       |
| <b>Conditions of Tendering</b>  |   |      |               |       |
| B   | For full particulars of Conditions of Tendering, the Contractor is referred to the proposed Contract Documents and shall allow here for all costs in connection therewith   | (PR) | Item          | Incl. |
| C   | Where any of the clauses are time related the Contractor shall break down the item cost into appropriate sub-divisions such as establishment, running and removal costs, etc  |      |               |       |
| <b>General Conditions of Tendering and Form of Tender</b>             |   |      |               |       |
| D   | For full particulars of General Conditions of Tendering and Form of Tendering, the Contractor is referred to the proposed Contract Documents and shall allow here, or in his prices for measured work in later Bills for all costs in connection therewith  | (PR) | Item          | Excl. |
| E   | Where any of the clauses are time related the Contractor shall break down the item cost into appropriate sub-divisions such as establishment, running and removal costs, etc  |      |               |       |
| <b>DESIGN AND CONSTRUCT</b>   |   |      |               |       |
| F   | Where the proposed Conditions of Contract require the Contractor to assume a Design and Construct responsibility the Contractor shall ascertain the nature and extent of his responsibilities (e.g. payment of design consultant's fees where applicable, management of design development including holding meetings, administration, etc.) and shall allow here for all costs in connection therewith | (PR) | Item          | Incl. |
| G   | Where any of the costs are time related the Contractor shall break down the item cost into appropriate sub-divisions such as establishment, running and removal costs, etc  |      |               |       |
| <b>DESIGN DEVELOPMENT</b>   |   |      |               |       |
| H   | While every care has been taken to measure all works normally associated with the trade sections, additional works resulting from design development are likely to occur. The Contractor should examine the Tender documentation and assess the extent of any development still required to complete the design   |      |               |       |
|   |   |      | To Collection |       |

| Item                                    | Unit   | Qty  | Rate | Cost             |
|---|--|------|------|------------------|
| <b>SEPARATE CONTRACTORS</b>             |  |      |      |                  |
| A                                       | Where the proposed Contract Documents envisages that Separate Contractors will be employed directly by the Proprietor and/or Tenants to carry out works at the Site during the currency of the Works, Tenderers are to ascertain the circumstances and requirements of all of these Separate Contracts |      |      |                  |
| B                                       | Allow for all requirements and costs associated with Separate Contractors  | (PR) | Item | Incl.            |
| <b>CONTRACTOR'S OVERHEAD AND PROFIT</b> |  |      |      |                  |
| C                                       | Allow for Contractor's overhead and profit   | (PR) | Item | 365,400          |
| <b>ESCALATION</b>                       |  |      |      |                  |
| D                                       | Allow for escalation in costs between the Tender Date and the Project Completion Date where so required by the proposed Contract Documents   | (PR) | Item | Excl.            |
| <b>GOODS AND SERVICES TAX</b>           |  |      |      |                  |
| E                                       | Allow for Goods and Services Tax (if applicable on this Project)   | (PR) | Item | Excl.            |
| To Collection                           |  |      |      | <b>\$365,400</b> |

|                              | Page | Cost               |
|------------------------------|------|--------------------|
| <b>COLLECTION</b>            |      |                    |
|                              | 8/1  |                    |
|                              | 8/2  | \$1,877,900        |
|                              | 8/3  |                    |
|                              | 8/4  | \$365,400          |
| 8 - PRELIMINARIES To Summary |      | <b>\$2,243,300</b> |

| Item                          | Unit   | Qty       | Rate          | Cost |
|-------------------------------|--|-----------|---------------|------|
| <b>GENERALLY</b>              |  |           |               |      |
| <b>Method of Measurement</b>  |  |           |               |      |
| A                             | The Contractor is advised that this is an abbreviated form of measurement that does not require measurement to the same extent of detail required by the Australian Standard Method of Measurement. It is imperative that the Contractor fully comprehends the system and prices the following items with careful attention to the Drawings and Specification to appreciate the exact nature and intent of the Works |           |               |      |
| B                             | This Bill of Quantities has NOT been measured in accordance with the Australian Standard Method of Measurement of Building Works   |           |               |      |
| C                             | It shall be the Contractor's responsibility to obtain any further information during the tender period that the Contractor deems necessary to assist in pricing  |           |               |      |
| D                             | The quantities prepared using these Rules for Construction Measurement are not guaranteed and are provided for guidance only   |           |               |      |
| E                             | This Bill of Quantities has been measured in accordance with the Rider Levett Bucknall Rules for Construction Measurement - Third Edition - May 2010   |           |               |      |
| F                             | Where, in this Bill of Quantities, additional information is provided to assist in pricing, this shall not prejudice any other items in this document where the additional information is not provided   |           |               |      |
| G                             | Notwithstanding the above, any deviations from the system of measurement will be noted preceding the quantities or by adaption of the "prices to include" clauses  |           |               |      |
| <b>Item Coding</b>            |  |           |               |      |
| H                             | The two letter code references that appear in parenthesis at the end of each item description are for the purpose of elemental cost analysis and are to be disregarded by the Contractor   |           |               |      |
| <b>MEASUREMENT AND PRICES</b> |  |           |               |      |
| <b>Specification</b>          |  |           |               |      |
| I                             | The Contractor is referred to the Specification, Drawings and other Contract documents for full descriptions and details of workmanship, materials, etc., related to the work measured in this Bill and shall allow here or in the prices for measured work for all costs incurred therewith   | (XR) Item |               | Nil  |
| <b>Prices</b>                 |  |           |               |      |
|                               |  |           | To Collection |      |

| Item                                   | Unit  | Qty  | Rate          | Cost            |
|--|---|------|---------------|-----------------|
| <b>MEASUREMENT AND PRICES (Cont'd)</b> |   |      |               |                 |
| <b>Prices (Cont'd)</b>                 |   |      |               |                 |
| A                                      | Prices for External Works and Landscaping generally are deemed to include for :   |      |               |                 |
|  | a. Complying with all 'Prices Shall Include For' clauses contained in this document   |      |               |                 |
|  | b. Engaging services of Geotechnical\ Engineer to verify bearing capacities\ and founding levels  |      |               |                 |
|  | c. Design and shop drawings   |      |               |                 |
|  | d. Testing, curing and protection of concrete and finished surfaces   |      |               |                 |
|  | e. Provision of samples and prototypes  |      |               |                 |
| B                                      | Prices for Paving are deemed to include for:  |      |               |                 |
|  | a. Grading, rolling and compacting to required falls, crossfalls cambers and other profiles   |      |               |                 |
| C                                      | Prices for Kerbs, Channels, Spoon Drains, etc. are deemed to include for:   |      |               |                 |
|  | a. Kerbs, channels, spoon drains, etc. being both in straight or curved runs  |      |               |                 |
|  | b. Transitions, junctions, joints and the like  |      |               |                 |
| D                                      | Prices for Fences and Gates are deemed to include for:  |      |               |                 |
|  | a. Excavating post holes  |      |               |                 |
|  | b. Filling excavations with cement stabilized backfilling or concrete as specified and temporary supports   |      |               |                 |
| E                                      | Prices for Topsoil are deemed to include for:   |      |               |                 |
|  | a. Preparatory treatment (e.g. harrowing, rotary hoeing, etc., of the ground surface)   |      |               |                 |
|  | b. Grading, screening, spreading and raking to even tilth   |      |               |                 |
| F                                      | Prices for Grassing and Planting are deemed to include for:   |      |               |                 |
|  | a. Mixing, sowing, raking, fertilizing and watering   |      |               |                 |
|  | b. Digging holes for plants   |      |               |                 |
|  | c. Supports, protection, maintenance  |      |               |                 |
| G                                      | Prices for Grassing and Planting shall also be deemed to include for:   |      |               |                 |
|  | · Binding, rolling, scarifying  |      |               |                 |
|  | · Labelling   |      |               |                 |
| H                                      | The Contractor shall be deemed to have satisfied himself as to nature, type and extent of work represented in this Bill and shall allow against each clause or item for all costs in connection therewith |      |               |                 |
| I                                      | If any clause, item or quantity is not priced it shall be deemed that the cost has been included elsewhere or no remuneration is required in respect of that clause, item or quantity                     |      |               |                 |
| <b>ALLOWANCE ITEMS</b>                 |   |      |               |                 |
| J                                      | Allow for keeping excavations free from water   | (XL) | Item          | 10,000          |
|  |   |      | To Collection | <b>\$10,000</b> |

| Item                                   | Unit  | Qty                 | Rate   | Cost          |                  |
|--|---|---------------------|--------|---------------|------------------|
| <b>ALLOWANCE ITEMS (Cont'd)</b>        |   |                     |        |               |                  |
| A                                      | Allow for additional cost of excavating in contaminated ground - EXCLUDED   | (XL) Item           |        | Excl.         |                  |
| B                                      | Allow for blinding concrete and its excavation both to seal bottoms of excavation and to achieve founding levels  | (XL) Item           |        | Excl.         |                  |
| C                                      | Allow for protecting trees and shrubs to be retained  | (XL) Item           |        | 10,000        |                  |
| D                                      | Allow for maintenance of grass, trees and shrubs  | (XL) Item           |        | Excl.         |                  |
| E                                      | Allow for compliance with authority requirements requested by Department of Transport or other authorities relating to interface with or proximity to utilities | (XL) Item           |        | Excl.         |                  |
| <b>Work in Other Trades</b>            |   |                     |        |               |                  |
| F                                      | Allow for detailed excavation and backfilling including trimming, compacting soil etc, as necessary. Included in Ground Works trade                             | (XL) Item           |        | Incl.         |                  |
| <b>FOOTPATH PAVING</b>                 |   |                     |        |               |                  |
| G                                      | Basecourse to footpath, assume 150mm DGB20  | (XR) m <sup>2</sup> | 2,862  | 20            | 57,240           |
| H                                      | Allowance for 1.2m wide concrete footpath   | (XR) m <sup>2</sup> | 2,862  | 100           | 286,200          |
| I                                      | Pram ramp to SA kerb  | (XR) No             | 12     | 1,500         | 18,000           |
| J                                      | Pram ramp to RT kerb  | (XR) No             | 3      | 1,500         | 4,500            |
| <b>STREET SIGNAGE</b>                  |   |                     |        |               |                  |
| K                                      | Signage type R1-2, Give Way including pole and footing  | (XR) No             | 7      | 350           | 2,450            |
| L                                      | Signage type R5-4-2, No Parking including post and footing  | (XR) No             | 4      | 330           | 1,320            |
| <b>SOFT LANDSCAPING AND IRRIGATION</b> |   |                     |        |               |                  |
| M                                      | T1: Buffalo turf installed on imported topsoil  | (XL) m <sup>2</sup> | 20,431 | 12            | 245,172          |
| N                                      | Timber edge and tree guard  | (XL) m              | 1,386  | 15            | 20,790           |
| O                                      | Tree GF; Glochidion Ferdinandi 100lt installed as per Terras Landscape Architects drawing L201  | (XL) No             | 75     | 340           | 25,500           |
| P                                      | Tree CE; Corymbia Exima "Nana" 100lt installed as per Terras Landscape Architects drawing L201  | (XL) No             | 47     | 340           | 15,980           |
|  |   |                     |        | To Collection | <b>\$687,152</b> |

| Item  |  | Unit      | Qty | Rate | Cost            |
|---|--|-----------|-----|------|-----------------|
| <b>SOFT LANDSCAPING AND IRRIGATION (Cont'd)</b> |  |           |     |      |                 |
| A   | Tree CF; Corymbia Ficifolia 100lt installed as per Terras Landscape Architects drawing L201        | (XL) No   | 37  | 340  | 12,580          |
| B   | Tree TL; Tristaniopsis Laurina 100lt installed as per Terras Landscape Architects drawing L201     | (XL) No   | 23  | 380  | 8,740           |
| C   | Tree CA; Cupaniopsis Anacardioides 100lt installed as per Terras Landscape Architects drawing L201 | (XL) No   | 31  | 340  | 10,540          |
| D   | Tree AH; Angophora Hispida 100lt installed as per Terras Landscape Architects drawing L201         | (XL) No   | 18  | 340  | 6,120           |
| E   | Allowance for irrigation to soft landscaping   | (XL) Item |     |      | Excl.           |
| To Collection                                   |  |           |     |      | <b>\$37,980</b> |

|   | Page | Cost             |
|---|------|------------------|
| <b>COLLECTION</b>                             |      |                  |
|   | 9/1  |                  |
|   | 9/2  | \$10,000         |
|   | 9/3  | \$687,152        |
|   | 9/4  | \$37,980         |
| 9 - EXTERNAL WORKS AND LANDSCAPING To Summary |      | <b>\$735,132</b> |



## Query Report

# Wye West Paper Subdivision

## Bill of Quantities

### Query Report

| No. | Query   | Answer   | Answered | Comments   |
|-----|---|--|----------|--|
| 1   | By: Kai Barbosa On: 21 September 20<br>Drawing(s): Various<br>Road material composition not specified         | By: Rachel Parker On: 21 September 20<br>Geotechnical Report provided by LMCC via email correspondence on 15.09.2020 | Yes      | Measured as per recommendations in Geotechnical Pavement and Stormwater Investigation Report.                    |
| 2   | By: Laura Chen On: 21 September 20<br>Drawing(s): 501, 502, 503, 504<br>Bulk earthworks quantities requested. | By: Rachel Parker On: 21 September 20<br>Provided by ADW Johnson c/o LMCC via email correspondence on 03.09.2020     | Yes      | Earthworks quantities used as per advice provided by ADW Johnson c/o LMCC via email correspondence on 03.09.2020 |

## Wye West Paper Subdivision

### Bill of Quantities

#### Query Report

| No. | Query   | Answer  | Answered | Comments |
|-----|---|---|----------|----------|
| 3   | <p>By: Nicholas Helmers On: 28 October 20<br/>Drawing(s): N/A<br/>Requirement for the following allowances; Staging, resident accommodation during the works and authority fees</p> | <p>By: Rachel Parker On: 28 October 20<br/>Clarification received from LMCC via email correspondence on 23.10.2020<br/>By: Rachel Parker On: 28 October 20<br/>Authority fees: In addition to the information provided previously from ADW, we are also aware of a further approx. \$8,000 fee to Ausgrid prior to the commencement of works, please allow for this.<br/>By: Rachel Parker On: 28 October 20<br/>Staging: Assume the works are to be completed in a single stage, in speaking with Kai, the BOQ has been priced to reflect the nature of the existing site and the additional cost of working around the existing residences.<br/>By: Rachel Parker On: 28 October 20<br/>Resident accommodation: Please exclude this from the BOQ, the approach to this issue will be decided on further into the project and we believe it is too variable at this stage to place a figure against.<br/>please exclude this from the BOQ, the approach to this issue will be decided on further into the project and we believe it is too variable at this stage to place a figure against.</p> | Yes      |          |

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