

# **VALUATION REPORT**



CHRISTCHURCH INTERNATIONAL AIRPORT DISCLOSURE LAND REPORT

REGISTERED VALUERS . PROPERTY CONSULTANTS

30 JUNE 2013

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### **Executive Summary**

Our Reference CS: 09138444

Property Address Land Comprised within the Disclosure Land at Christchurch International Airport,

Christchurch

Effective Date of Valuation 30 June 2013

Report To Christchurch International Airport Limited

PO Box 14 001 Christchurch

**Attention: Andrew Souness** 



Purpose of Valuation Information disclosure having regard to the Commerce Commission Input Methodologies

Determination applicable to Airport Services pursuant to Part IV of the Commerce Act 1986.

of land necessary to accommodate activities for the provision of 'Airport Services'. Collectively, these areas of land are referred to as the 'Disclosure Land'. These areas include the airfield land, runways, taxiways and aprons together with adjoining land

supporting airport related services.

Market Value Alternative Use \$142,000,000 (One Hundred and Forty Two Million Dollars)

This valuation is plus GST (if any) and is to be read in conjunction with the report attached.

Valuer

C N Seagar, FNZIV FPINZ

Registered Valuer

Director



CS: 09138444

30 September 2013

Christchurch International Airport Limited PO Box 14 001

Christchurch

Attention: Mr Andrew Souness

Dear Sir

# Valuation of Land Comprised within the Disclosure Land Schedule at Christchurch International Airport, Christchurch

### 1.0 Instructions

In accordance with your instructions we have undertaken a valuation of the land identified within the Disclosure Land Schedule at Christchurch International Airport for the purposes of information disclosure and having regard to the Commerce Commission Input Methodologies Determination applicable to Airport Services pursuant to Part IV of the Commerce Act 1986.

This report has been prepared for the specific purpose stated and any party that relies upon it for an alternative purpose without specific reference to Seagar & Partners, does so at its own risk. This report and the conclusions contained herein can only be relied upon by Christchurch International Airport Limited (CIAL), its advisers and stakeholders, and Seagar & Partners shall not have any responsibility to any other party.

The effective date of valuation is 30 June 2013.

### 2.0 Nature of the Land

The land in question comprises some 613 hectares in total which encompasses those activities applicable to airport services as defined by Part IV of the Commerce Act 1986. These areas include the airfield land including runways, taxiways and aprons together with adjoining land supporting airport related services together referred to as the Disclosure Land.

The compilation of the Disclosure Land schedule has been undertaken in consultation with CIAL as set out in this report. Should there be any amendments to this asset base, we would reserve the right to review our valuation calculations in this light.

### 3.0 Basis of Valuation

The assessed value represents the sum of the owner's estate or interest in the land(and said improvements) if unencumbered by any mortgage or other charge at the date of valuation.

This valuation is carried out in accordance with those Practice Standards, Guidance Notes and relevant Code of Ethics set out in Valuation and Property Standards 2009 (Property Institute of New Zealand and Australian Property Institute). In Valuation and Property Standards 2009, the definition of market value is taken from the general concepts and principles of IVSC's International Valuation Standards where,

"Market Value is the estimated amount for which a property should exchange on the date of valuation between a willing buyer and a willing seller in an arms length transaction after proper marketing wherein the parties had each acted knowledgeably, prudently and without compulsion".

We would point out that our assessment of value is based on market evidence as at the date of valuation; however real estate values can vary from time to time in response to changing market circumstances and no warranty can therefore be given as to the maintenance of this value into the future.

### 4.0 Composition of Disclosure Land

In the table below we detail each of the land areas that have been identified as comprising the Disclosure Land for valuation purposes. We refer the reader to **Appendix I** for a breakdown of the individual parcels making up this Disclosure Land as advised by CIAL.

| Asset Category        | Land Area<br>(2013) |
|-----------------------|---------------------|
|                       |                     |
| Aircraft and Freight  | 28.8632 ha          |
| Fire Service          | 0.8441 ha           |
| Airfield              | 565.4376 ha         |
| Allocated Land        | 17.6239 ha          |
|                       |                     |
| Total Discolsure Land | 612.7688 ha         |

### 5.0 Airport Land Valuation Methodology

The valuation of land utilised for airport services has been the subject of a valuation Input Methodologies Determination issued by the Commerce Commission dated 22 September 2010 together with supporting Reasons Paper.

The directions under this valuation methodology require a market value in alternative highest and best use for the airfield land, based upon the initial Regulated Asset Base (RAB) which is defined to mean the land and non-land assets included in the 2009 disclosed assets of CIAL.

'Initial RAB' means the land and non-land assets included in the 2009 disclosed assets (refer 3.1).

Initial (unallocated) RAB values for assets is the value of the land determined as on the last day of the disclosure year 2009 in accordance with Schedule A (refer 3.2).

Schedule A A2 requires the land to be valued in its highest and best alternative use which is equal to the likely market price paid for the land by a developer or investor[A2(1)]. This is referred to as the Market Value in Alternative Highest and Best Use (MVAU) and assumes that Airport operations on the land have ceased.

Highest and best alternative use is the most probable use of the land other than for supplying specified airport services (or use to the extent that it is influenced by specified airport services) which is physically possible, appropriately justified, legally permissible, financially feasible and results in the highest valuation of the land[A2(3)].

'MVAU' must exclude the value of land conversion costs to the extent that the costs are required specifically to convert the land into that suitable for the supply of specified airport services and must also exclude remediation expenditure [A2(7)]. In making these valuations the value must comply with relevant New Zealand and International Valuation Standards (A3 – A5).

The assessment of MVAU must, where reasonably practicable, be determined by the application of more than one valuation method and the Commission has recommended the use of the direct sale comparison approach (either on an area or zonal basis) and notional subdivision/residual value approaches (A8 – Applicable MVAU valuation methods). These approaches are to be used wherever this is reasonably practicable and in addition a Discounted Cash Flow analysis of the land in alternative use can be undertaken as a further approach to value.

The land is to be valued as an aggregated parcel which may be made up of multiple titles and the Valuer is to assume an orderly sale of the aggregated land in economically manageable parcels over such time as would likely be needed to achieve the highest and best alternative use of the land [A9 (2) Practical Valuation Requirements].

Where the land is designated or zoned for various aeronautical activities, in considering the likely alternative uses for the land the valuer should also consider the likelihood of the designation being uplifted or the land rezoned and the costs (if any) likely to be involved in this [A9 (4)]

In undertaking an MVAU valuation the Valuer must:

- Compile a schedule of land parcels to be included in the value
- Confirm ownership, tenure and land area
- Determine the likely zoning for highest and best alternative use
- Consider Resource Management requirements
- For notional subdivision/residual approaches, prepare a land development plan.
- Undertake market research and comparable sales information including block sales and developed land sales (A10) MVAU Valuation Steps.

In summary therefore, whilst Schedule A opens with an emphasis upon the development value of the land using hypothetical development approaches, the methodologies that the valuer must employ includes as a first approach the consideration of block land sales evidence with this evidence being related to the open market sale of land in economically manageable parcels.

The term 'economically manageable parcels' is not defined anywhere in the Commission's methodology but can be interpreted to mean as determined by land sales activity, i.e. having regard to the sale of blocks of land which more typically trade in the open market and which would need to be aggregated to form a parcel equivalent to the size of the airport land holding.

If there is robust sales evidence of block land in economically manageable parcels for the valuer to apply, then there would be less need to rely upon the hypothetical/residual development value approaches. Valuation precedents support the view that block land sales are ultimately the more reliable and robust test of market value. Airports however employ large tracts of land which when combined in area offer few direct market comparisons and hence the need to consider alternative approaches.

### 6.0 Highest and Best Alternative Land Use

### 6.1 Statutory Context

In order to form a view on the notional highest and best alternative use of the land should the airport operations cease, we have sought expert opinion of Planit Associates, Consultant Specialists in Urban, Rural, Regional and Environmental Planning and Research based in Christchurch who are familiar with the Airport land and its surroundings.

Planit were initially requested to report on a review of 'plausible alternative uses for Christchurch International Airport' and submitted a report dated June 3, 2011 based upon the information available at that time.

More recently the same Planning Consultancy now known as Planz Consultants Limited has supplied a supplementary report updating that advice dated 24 May 2013.

The summary of the essential points contained in these advices including the most recent May 2013 advice is as follows:

- The land is currently zoned Special Airport Zone (SPAZ) and is a well-established urban zone with a wide range of airport related activities including offices and industrial activities which lie adjacent to the airfield land on its eastern side. To the west and south the Airport is bounded by rural land uses with much of the land to the west held by the Canterbury Regional Council for catchment management purposes. To the north the Airport is bounded by various activities including quarries, farmland and a Business 7 zone that provides for dry industries. The surrounding land uses include two golf courses in the Russley Golf Course and the Harewood Golf Course to the east and west of the Airport respectively.
- The airport land is already connected to a reticulated sewer network, the expansion of which should be readily possible although future business uses would need to be 'dry' industries where water-intensive processing and those industries using larger quantities of hazardous substances would be likely to be excluded. A potable water supply would be able to be provided and stormwater is generally able to be disposed of directly to the ground at source subject to filtering of any contaminants. An existing roading network is available to the land including several perimeter roads.
- The airport land is located within the Metropolitan Urban Limit (MUL) in recognition of its existing urban zoning. At the date of writing Plan Change 1 was made operative on 14 October 2011 under direction from the Minister for

Earthquake Recovery pursuant to the Canterbury Earthquake Recovery Act (CER Act). By using the CER Act the usual Environment Court appeal process under the Resource Management Act was able to be avoided with the practical effect being that outstanding appeals on Plan Change 1 were negated. This outcome was appealed through the High Court and Court of Appeal with the net result being that the decision to make Plan Change 1 operative was set aside, and the previous appeals to Plan Change 1 were referred back to the Environment Court for consideration.

- The Minister then directed that the Canterbury Regional Council produce a Land Use Recovery Plan ('LURP') under the CER Act to direct recovery and the coordination of development and infrastructure in greater Christchurch. Environment Court Appeals on Plan Change 1 have been placed on hold while the LURP is developed and it is generally accepted that the LURP will supersede Plan Change 1, at which point Plan Change 1 will be withdrawn and the associated appeals dismissed.
- As at the date of the Planz report the LURP was in the process of being developed with a preliminary draft version having been released for public comment in March of this year. After input from the Regional and Local Councils an Operative LURP is anticipated in the final quarter of this year.
- Planz advise that of particular significance, Appendix 2 to the draft LURP includes amendments to the Canterbury Regional Policy Statement (RPS) by adding the missing Chapter 6, the approach to which is broadly similar to that articulated in Plan Change 1. Chapter 6 identified four new Business Priority Areas located immediately east of the airport between Russley Road and the current urban edge. These four areas have arisen out of the Change 1 Hearing Commissioners identifying a need for a further 100 hectares of business land in the north-west of the city over and above the greenfield land previously identified in Plan Change 1. In terms of urban form the four Priority Areas effectively join the airport precinct to the urban edge of Christchurch and remove the current strip of Rural Zoned land that separates the two. The proposed Chapter 6 is explicit that greenfield Priority Business Areas are to be used for industrial activities rather than for office or retail.
- Planz advise the new business areas reinforce their earlier advice that redevelopment of the eastern side of the airport for large industry and distribution activities is plausible and is consistent with the direction in which strategic planning is moving regarding urban growth in the wider vicinity of the airport. It is also explicit that rural residential activity should not occur within the existing urban area where the policy direction is for intensification to occur.

Planz note that since the Canterbury earthquakes significant urban growth is anticipated within reasonable proximity to the airport with residential growth just outside the air noise contours, and business growth within these contours. There is little material change with regard to controls on hazardous substances and 'wet industry' remain restricted given the airport's location over the unconfined aquifer. Otherwise however the caution from a planning perspective of locating urban growth over the aquifer has now been balanced by recognition that the ground conditions in the western parts of the city are able to support cost-effective building.

Based on the foregoing and given that the current SPAZ provisions are predicated on airport activities, were the airport to cease operations it would be necessary for a plan change to occur to facilitate alternative activities. However, given the size of the land, it's location over ground that is not subject to liquefaction and the fact that it is already serviced, Planz believe it is very plausible that re-zoning to enable the site to be used for a mix of industrial, commercial and residential purposes would be progressed under the CER Act rather than the RMA. In that event they believe that a plan change to rezone the airport precinct could be made within a period of 12 months as compared to as much as three and a half years to promulgate the same plan change under the RMA.

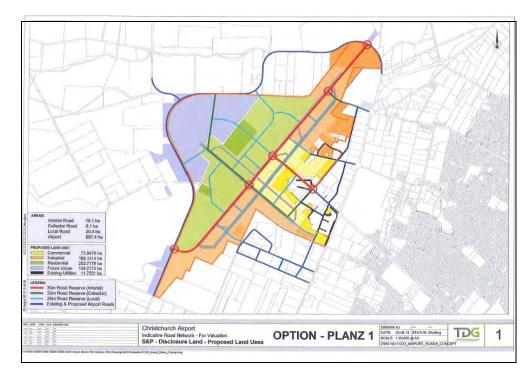
A copy of the Planz Consultants Limited report of 24 May 2013 is attached as **Appendix II**.

### 6.2 Alternative Land Use Proposals

Following on from their report of 24 May 2013 Planz Consultants Limited considered the likely form of an alternative land use plan over the disclosure land taking into account its location, surroundings and the existing built up environment including roading and other infrastructure surrounding the existing airport. Planz and the Airport Company have also consulted with Traffic Design Group (TDG) to produce a proposed roading network through the land, both to assist with land use planning and also to estimate road construction costs based upon expected transportation requirements. In combination this has enabled the development of a land use allocation plan incorporating main arterial and local feeder roads based upon the size and configuration of the disclosure land.

The resulting alternative land use development plan is shown at **Appendix III** to this report. The plan incorporates four land use categories with the area of each category of land being calculated to exclude future roading requirements. The roading requirements are made up of three categories of internal roads, arterial, collector and local roads with provision for six roundabouts. The layout of this roading together with existing roads is illustrated on the land use plan in the appendix. A summary of the resulting areas is contained in the following table:

| Disclosure Land | Land Use                      | % of Land | Legal Area (ha's) |
|-----------------|-------------------------------|-----------|-------------------|
| Block 1         | Retail/Office                 | 12        | 66.8198           |
| Block 2         | Light Industrial/Distribution | 31        | 173.46            |
| Block 3         | Residential                   | 34        | 186.8379          |
| Block 4.1       | (Outside MUL)                 | 22        | 123.0961          |
| Total           |                               | 100       | 551.2137          |
| Block 5         | Existing roading/utilities    |           | 11.7551           |
| Block 6         | Future roading requirements   |           | 42,8000           |
| Block 7         | Reserves/Infrastructure       |           | 7.0000            |
| Total           |                               |           | 612.7688          |



### 6.3 Timing to Achieve Statutory Land Use Changes

Planz have advised that under the hypothetical scenario of airport operations ceasing, the process to pursue alternative highest and best land uses as outlined would involve a change to the City Plan to remove the existing airport related Special Purpose zone, designation and associated rule package including noise contours. The same plan change would seek to facilitate the approximate mix of new zones for redevelopment of the airport land.

Planz original advice was that if such rezoning were to follow standard RMA processes they anticipated that a plan change for the entire airport site would take approximately two years to progress through Council processes with Environment Court appeals likely to take a further 1 - 1.5 years. They would therefore anticipate up the 3.5 years in total if there are appeals.

They have also added however that if the powers under the CER Act are available for land use then a much shorter time frame could be anticipated without recourse to the Environment Court. This time frame could be as little as nine months.

### 6.4 Infrastructure Cost Estimates

Traffic Design Group have undertaken an assessment of the costs to undertake the infrastructure associated with the proposed land use plan. The estimated cost to construct all roads including services and professional fees is \$97,581,096 as per their assessment date of 26 August 2013.

A summary of the TDG costings is contained at **Appendix IV** to this report (see Schedule of Prices – Summary Sheet).

Contributions to this total cost are made up as follows:

| Туре             | Distance | Cost         |
|------------------|----------|--------------|
| Arterial Roads   | 5.2 km   | \$32,008,553 |
| Collector Roads  | 3.7 km   | \$17,920,908 |
| Local Roads      | 10.2 km  | \$42,342,818 |
| New Roundabouts  | (x6)     | \$5,308,817  |
| Total (excl GST) |          | \$97,581,096 |

The costings include an allowance for Preliminary &General, and Contingencies with earthworks being adjusted to reflect the existing levelled nature of much of the land.

TDG estimated that infrastructure costs would reduce to around \$90,000,000 if the roads west of the existing alignment of Pound Road are excluded.

### 7.0 Valuation Considerations

The foregoing options relating to alternative uses of the airport land assume that airport operations were to cease. These alternative use plans enable us to consider the basis upon which the value of this land can be assessed in accordance with the concept of *market value alternative use (MVAU)*.

The concept of MVAU as referred to in the input methodology for airport land is essentially the market buying price for the land insitu in the same or similar status as blocks which provide the comparable sales evidence and is able to include such improvements made to the land as would add value in its highest and best alternative use other than for the provision of airport services. For example, where the land has been levelled, and that levelling is to a higher state than would be required for the highest and best alternative use of the land, then to that extent the additional land conversion costs must be treated as a non-land asset for valuation purposes.

We consider that the principal land valuation approach should be comparable block sales of typical block sized lots in the location and this is the primary approach expected by the Input Methodology.

Whilst other approaches such as notional subdivision/residual value approaches are to be employed wherever reasonable and practical, such approaches over what is a very large tract of land would have to be predicated on a wide range of assumptions and variables as development would almost certainly be staged over a number of years. A block sales valuation based on land use zones in our view has greater relevance to the valuation of what would be termed 'economically manageable parcels' whereby the outcomes can be reconciled with actual market activity. Ultimately, it is the analysis and application of that market activity which offers the most reliable test of market value.

We have examined this assignment using three approaches all of which assume that the purchaser of the subject land would pursue a Plan Change to permit alternative highest and best use of the land whilst a phased exit from airport operations was achieved. The first of these approaches takes a block land sales approach based on alternative land use precincts adjusted for the risks of achieving the plan change and attendant costs.

The further approaches examine the same opportunity using hypothetical subdivision and discounted cash flow approaches. Both these approaches have been taken over a fifteen year development/investment period making reasoned assumptions regarding the phasing of land sales following zoning and applying either a profit and risk allowance or a discounting of projected cashflows.

As support for these approaches we have investigated a wide range of land sales activity relating to larger block sales of various classes of land in Christchurch and other urban centres around New Zealand at or around the valuation date. Based upon this evidence we have arrived at serviced block land values to be applied in each of the zoning precincts outlined in the Planz Consultants land use plan.

### 8.0 Sales Evidence

Since the destructive Canterbury earthquakes experienced in September 2010 and February 2011 we have reported on these asset portfolios twice (June 2011 & 2012). The unprecedented property destruction inflicted upon the Christchurch CBD has seen it cordoned off for a number of months while progressive demolitions have been carried out and since this time extensive planning for the upcoming reconstruction has provided a framework for the regeneration of the city centre in the months and years ahead. The form of this reconstruction is to be centred around a smaller, low intensity CBD than that which existed prior to the earthquakes with a green frame border and surrounded by twelve activity precincts compartmentalised into twelve distinct areas.

In the meantime, the business suburbs west of the City Centre have continued to a large degree to remain unaffected by these earthquakes and the subsequent ongoing earthquake activity experienced by parts of Christchurch. These suburbs have experienced minimal damage and very little, if any, disruption including Christchurch International Airport and its immediate surroundings.

In the two and half years since the February 2011 earthquake there has been limited transactional activity in the Christchurch property investment market as a result of uncertainty, but this has now subsided somewhat as the aftershocks have tapered, awareness of engineering requirements has increased and the low interest rate environment has continued. This notwithstanding, the demand for investment property has been strongest in the western suburbs where little, if any, damage occurred to land and buildings.

Anecdotal evidence suggests that there is now an imbalance between growing investment demand and limited supply of investment grade properties. Demand for investment property is predominantly from South Island based private investors, some of whom hold extensive capital following earthquake insurance pay-outs in central Christchurch. As a consequence of this demand and prevailing low interest rates, investment yields remain firm, particularly for modern well-leased investment property in the western industrial and commercial markets of Christchurch.

Local commercial real estate agents report that private investor demand is being experienced in a price range up to \$10.0M and in some cases higher where appropriate investment opportunities are available. As at the date of writing this report, a greater proportion of transactions have been observed in excess of \$5.0M than in the months following the earthquakes.

### 8.1 Industrial Land Sales Evidence

We have divided our industrial land sales evidence into two categories, the first being those sales within the inner suburbs of Christchurch and the second in the outer south-west and north-west suburbs. Since the series of major earthquakes struck central Christchurch there has been a paucity of land sales evidence within the inner suburbs of Christchurch with most transactions occurring up to the end of 2010 when the first earthquake occurred. We have reiterated a table of these sales for reference purposes only, dated between 2008 and 2010. Market activity since that time has been focussed on the outer Christchurch suburbs where there has been a number of sales relating to smaller serviced blocks of land as well as larger partly serviced or un-serviced land zoned for industrial purposes. These sales have been summarised in the tables which follow.

### Industrial Land Sales Evidence - Inner Suburbs

| Address  |  | Sale<br>Price  | Sale<br>Date                              | Area  | Land<br>Rate                                    |
|--|--|--|---|---|---|
| 32 Montreal Street   | Sydenham   | \$5,836,500  | Sep-10                                    | 23,346m²  | \$250/m²  |
| Large 2.3346 hectare site<br>block bounded by Montre<br>2,529 square metres loca<br>confidential however we u<br>covered by old industrial b | al Street, Burke<br>ated on the westenderstand the sal | Street, Orbell Street, or Street, Orbell Street, or Str | reet and B<br>real Street<br>valent to al | rougham Street. The details of bout <b>\$235/m²</b> . The | together with<br>the sale are<br>is property is |
| 47 Montreal Street   | Sydenham   | \$425,000  | Jan-10                                    | 1,093m²   | \$389/m²  |
| This property sold in Jan<br>Walker Rudkin property a<br>the site was sealed for car   | nd is situated on                                      | the corner of Mo   | ntreal Stre                               | et and Burke Str  |   |
| 120 Montreal Street  | Sydenham   | \$3,250,000  | May-09                                    | 7,926m²   | \$410/m²  |
| The former CRC Salvage<br>South Island Main Trunk I<br>with dual street frontage at  | Railway and zone                                       | d Business 3 cor   |   |   |   |
| 15-17 Raycroft Street  | Waltham  | \$400,000  | Apr-09                                    | 1,259m²   | \$318/m²  |
| This property sold in Apr<br>combined area of 1,259 s<br>Waltham.  |  |  |   | , ,   |   |
| 17 Bernard Street  | Addington  | \$2,800,000  | Mar-09                                    | 8,348m²   | \$335/m²  |
| Large site comprising 8,34 large site contained variou   | •  |  |   | •   | In Road. This                                   |
| 350 Colombo Street   | Sydenham   | \$4,000,000  | Aug-08                                    | 9,084m²   | \$440/m²  |
| The substantial Sydenhan with frontages also to Bro Council.   |  |  |   |   |   |

The above outlined sales evidence lie between \$235/m² – \$440/m². At the lower end of this range is the recent sale at 32 Montreal Street, Sydenham in September 2010 which is also the largest industrial land sale in our table and equated to a rate of \$235/m² over the 2.33 hectares. Meanwhile at the upper end is the August 2008 sale at 350 Colombo Street, Sydenham which calculated to a rate of \$440/m² for a 9,084m² development site with multiple frontages and benefits from a degree of retail influence.

### Industrial Land Sales Evidence - Outer Suburbs

| Address   |                      | Sale<br>Price    | Sale<br>Date  | Area              | Land<br>Rate   |  |  |
|---|----------------------|------------------|---------------|-------------------|----------------|--|--|
| 10 Midas Place  | Middleton            | \$386,400        | Jul-12        | 1,288m²           | \$300/m²       |  |  |
| A small, square shaped lot located in Midas Place which is a cul-de-sac road leading off the northern side of Annex Road. |                      |                  |               |                   |                |  |  |
| 2 Ballarat Way  | Sockburn             | \$820,000        | Jul-12        | 2,567m²           | \$319/m²       |  |  |
| A flat corner site situated at t  | he intersection of B | sallarat Way and | d Hayton Roa  | ad.               |                |  |  |
| 20 Pilkington Way   | Sockburn             | \$1,225,000      | Jul-12        | 4,028m²           | \$304/m²       |  |  |
| A large inside lot that is flat, v  | acant and regular i  | n shape.         |               |                   |                |  |  |
| 14 Nga Mahi Rd  | Sockburn             | \$830,000        | Mar-12        | 2,457m²           | \$338/m²       |  |  |
| A regular shaped lot zoned Road but access only from the  |                      |                  | ire to the ma | ain arterial road | of Blenheim    |  |  |
| 17 Sir Gil Simpson Dr   | Russley              | \$1,200,000      | Jan-12        | 3,831m²           | \$313/m²       |  |  |
| A regular shaped rear site v approximately 303m² in the fois \$340/m².  |                      |                  |               |                   |                |  |  |
| 483-485 Blenheim Rd   | Middleton            | \$1,355,000      | Dec-11        | 4,285m²           | \$316/m²       |  |  |
| An 'L' shaped lot contained was Blenheim Road while all four 4 and sold with damaged bui                                  | titles have rear fro | ontage to Cable  | Street. The   | property is zon   | ed Business    |  |  |
| 41 Waterloo Rd  | Hornby               | \$1,406,945      | Aug-11        | 5,987m²           | \$235/m²       |  |  |
| A pan-handle shaped site the road running alongside its ea  |                      |                  |               | asier access fr   | om a private   |  |  |
| 11 Sir Gil Simpson Dr   | Russley              | \$1,150,000      | May-11        | 3,879m²           | \$296/m²       |  |  |
| A regular shaped rear site v approximately 675m² in the fois \$340/m².  |                      |                  |               |                   |                |  |  |
| 46 Acheron Drive  | Middleton            | \$957,270        | Aug-10        | 3,754m²           | \$255/m²       |  |  |
| Formerly comprising part of Business 4 zoned site is in a   |                      |                  |               |                   | on Drive, this |  |  |
| 515 Halswell Junction Rd  | Hornby               | \$2,481,000      | Jun-10        | 12,407m²          | \$200/m²       |  |  |
| A sightly irregular shaped lot<br>just to te west of the Springs<br>with the price likely reflecting                      | Road intersection    | n. The property  |               |                   |                |  |  |
| 15 Wigram Cl & 27 Sonter R  | d, Sockburn          | \$1,400,000      | Jun-10        | 8,638m²           | \$162/m²       |  |  |
| Large predominantly rear 8,6  | 38 square metre si   | ite zoned Busin  | ess 5 sold in | June 2010.        |                |  |  |
| 21 Foundry Dr & 38 Curries I  | Rd, Woolston         | \$10,500,000     | Jun-10        | 73,453m²          | \$143/m²       |  |  |
| Substantial 7.3453 hectare be<br>Port Company. The sale prontamination issues.  | •                    |                  | -             |                   | •              |  |  |

The above industrial land sales evidence in Christchurch's outer suburbs demonstrate a range between  $$143/m^2 - $338/m^2$$  depending upon site size and location.

A largest of these sales is the June 2010 transaction at 21 Foundry Drive & 3 Curries Road, Woolston comprising a large, predominantly rear site of 7.34 hectares located to the south-west of Christchurch city. The sale price equates to a gross land rate of \$143/m² before any deduction for demolition or remediation.

Another earlier sale in 2010 is the land at 15 Wigram Close & 27 Sonter Road, Sockburn which comprises a large 8,638m² site zoned Business 5 and sold for \$162/m². This compares to a slightly larger site of 12,354m² at 2 Parkhouse Road, Sockburn which sold in February 2009 at a land rate of \$284/m². Both properties are located within very close proximity to each other however the difference in land value rate achieved can be explained by the fact that the larger site enjoys a prominent corner position adjacent to Wigram Airport.

### Wigram Business Park

In addition to these sales, we are aware that a number of transactions have been confirmed for larger serviced sites within the Wigram Business Park development being carried out by Ngai Tahu Property Limited in Hayton Road, Sockburn. This is a two stage subdivision within which the following 8 lots have been sold in the first stage:

| Land<br>Area | Sale<br>Price | Land<br>Rate         |
|--------------|---------------|----------------------|
| 16,557m²     | \$3,890,895   | \$235/m <sup>2</sup> |
| 4,040m²      | \$1,070,600   | \$265/m²             |
| 3,209m²      | \$850,385     | \$265/m²             |
| 7,967m²      | \$1,912,080   | \$240/m²             |
| 7,662m²      | \$1,974,470   | \$258/m²             |
| 2,880m²      | \$806,400     | \$280/m²             |
| 3,952m²      | \$1,027,520   | \$260/m²             |
| 6,600m²      | \$1,815,000   | \$275/m²             |

These sales confirm that the market for serviced industrial lots ranging in size between 3,000m² and 8,000m² within the Wigram Business Park has been established at rates ranging between \$240/m² - \$280/m² based on the most recent transactions and we understand that current asking prices have firmed slightly above these levels. The Wigram location is more central relative to the airport and would warrant a premium on this account.

Having regard to the range of evidence in the foregoing tables we have concluded that serviced industrial sites in the Harewood area would command prices ranging between \$200/m<sup>2</sup> - \$250/m<sup>2</sup> depending upon specific site size and location.

### 8.2 Block Land Sales Evidence

We have examined sales of block land in the Canterbury market where land having either rural / residential zoning has been acquired for its rezoning potential to allow business use. These sales are summarised in the following table.

### Residential / Rural Block Land with Rezoning Potential

| 11001  | deritiar / Itarar  | Diodic Laria W  |   | ing i otential   | 1  |
|--|--|---|---|--|--|
| Address  |  | Sale<br>Price   | Sale<br>Date  | Area   | Land<br>Rate   |
| 19 Racecourse Road   | Sockburn   | \$14,500,000  | Sep-12  | 13.8148ha  | \$1,139,000/ha   |
| This site is situated on the Waterloo Road. The Butestimated demolition cost demolition the vacant land  | usiness 5 zoned p<br>t of which is \$1.24  | oroperty includes<br>4M. Analysis of t  | significant r<br>ne sale pric   | meat processing  | improvements, the  |
| 32, 52 & 62 Stanleys Roa   | d Harewood   | \$1,650,000   | Feb-12  | 4.2934ha   | \$384,000/ha   |
| A block of Rural 5 zoned rezoned for business act purchased by an adjoining  | ivities. The land is   | close to the exis   |   | ,  |  |
| 245 Wooldridge Road  | Harewood   | \$3,050,000   | Aug-11  | 4.0775ha   | \$748,000/ha   |
| A block of Rural 5 zoned rezoned for business act and was purchased by an  | tivities. The land in  | mmediately adjoins  |   |  |  |
| 206 Shands Road  | Hornby   | \$22,540,000  | Dec-10  | 13.0220ha  | \$1,731,000/ha   |
| A large rural zoned site development. Sold to ar services and roading bein   | n adjoining owner  | (Foodstuffs) to ca  | ater for their  |  |  |
| 475 Memorial Ave   | Harewood   | \$22,222,222  | Dec-08  | 18.9686ha  | \$1,172,000/ha   |
| A substantial property loc<br>Avenue Investments Ltd.<br>MUL although the new lan<br>Change to rezone the lar<br>this land as suitable for re<br>the sale price was \$25.01<br>which may include adjustr | The land is zoned downer made submod for business ac ezoning from rural M including GST. | Rural 5 and in P<br>missions to the PC<br>tivities. The Com<br>to business and it<br>We suspect there | lan Change<br>C1 Commiss<br>missioners'<br>is now inclu<br>are conditio | 1 was not initially sioners and has lo Recommendation uded within the M ns in this sale an | vincluded within the odged a Private Plans on PC1 identifier UL. We understand |
| 207 Johns Road   | Rangiora   | \$4,400,000   | Dec-07  | 3.8188ha   | \$1,152,000/ha   |
| A regular shaped block of  | level land zoned Li  | ving 1. Purchased   | l by Suburba  | an Estates Limited   | i.   |
| 140 Hussey Road  | Harewood   | \$3,000,000   | Sep-07  | 2.4059ha   | \$1,247,000/ha   |
| A triangular shaped block<br>the rear (southern) bound<br>was achieved shortly after   | lary. The purchase   |   |   |  |  |

The benchmark sale for rural land with rezoning potential to business activities is 475 Memorial Drive, Harewood located directly east of Christchurch Airport on the opposite side of Russley Road which was acquired in December 2008 at a figure of \$25.0M inclusive of GST for an area of 18.96 hectares. Excluding GST the sale equated to \$1,172,000/ha (\$117/m²) for land which was zoned Rural 5 but acquired for its business use potential. We suspect there may have been rezoning conditions attaching to the sale price however the property was subsequently included within the Metropolitan Urban Limit (MUL) and has been identified by planning Commissioners as being suitable for business activities.

The foregoing sale has been supported by the more recent sale of business zoned block land at 19 Racecourse Road in Sockburn where 13.1481 hectares was acquired in September 2012 at an effective price including demolition of existing improvements equating to \$1,139,000/ha (\$113/m²). Based upon the Wigram Business Park sales, smaller serviced lots on this land could be expected to command prices ranging between \$250/m²-\$300/m².

Another key sale is the transaction in December 2010 comprising a large rural zoned site located in Hornby that is irregular in shape. The site had a land use consent in place for an industrial development and was sold to an adjoining owner for \$1,731,000/ha (\$173/m²). The sale was subject to services and roading being provided to the boundary of the site.

An historic land sale within close proximity to the airport occurred in September 2007 at 140 Hussey Drive, Harewood. This is a triangular parcel of land that sold for \$1,247,000/ha (\$125/m²) but was conditional upon a rezoning from Rural 3 to Living 1 in order to allow a higher density of residential development on the site. The rezoning was achieved shortly after the date of agreement.

The sales in Harewood at Stanleys Road and Wooldridge Road are both of 4 hectare sites where rural zoned land with potential to be rezoned for business activities have sold at prices ranging between \$384,000/ha - \$748,000/ha depending upon proximity in relation to the existing business zone.

### 8.3 Residential Block Land Sales Evidence

We have examined sales of residential zoned block land throughout the wider Canterbury market where land has been acquired for subdivision development. These sales are summarised in the following table.

| Address  |   | Sale<br>Price      | Sale<br>Date             | Area                   | Land<br>Rate                               |
|--|---|--------------------|--------------------------|------------------------|--|
| 88B Philpotts Road   | Mairehau  | \$7,000,000        | Nov-09                   | 11.1856ha              | \$551,700/ha                               |
| The land was purchase effective rate per hectare of 450 square metres in standards. The property Road. | e is approximately <b>\$5</b> in terms of the devel | 51,700/ha. The la  | nd is zoned<br>and 420 s | Living 1 with a min    | nimum net site area<br>erms of the critica |
| Racecourse Road  | Ashburton   | \$4,600,000        | Mar-09                   | 14.3787ha              | \$320,000/ha                               |
| The land is accessed by township. The land is zo   | •   | Road and Hanrah    | an Street o              | n the northern edo     | ge of the Ashburto                         |
| 518 Hills Road   | Mairehau  | \$750,000          | Feb-10                   | 1.3165ha               | \$570,000/ha                               |
| The property is situated   | in Mairehau and is z                                | oned Living 1B. Th | ne site has a            | ccess from Hills F     | Road.                                      |
| 116 Levi Road  | Rolleston   | \$5,600,000        | Oct-12                   | 19.0000ha              | \$278,316/ha                               |
| The land was purchased the effective rate being a  | •   |                    |                          |                        | artially deferred with                     |
| 185 Awatea Road  | Halswell  | \$1,551,793        | Jul-12                   | 2.8553ha               | \$543,000/ha                               |
| The land is zoned Living   | G which allows mixe                                 | ed density develop | ment in line             | with an Outline De     | evelopment Plan.                           |
| 141 Awatea Road  | Halswell  | \$1,197,554        | Jul-12                   | 2.2035ha               | \$543,000/ha                               |
| The land is zoned Living<br>Outline Development Pla  | •   | ed Living G which  | allows mixe              | ed density develop     | ment in line with ar                       |
| 135 Claridges Road   | Harewood  | \$3,100,000        | Apr-12                   | 6.7051ha               | \$462,000/ha                               |
| The property zoned Rur<br>The purchaser is faced v   | •   | •                  | •                        | ezone the land Liv     | ing G (Upper Styx)                         |
| 278 West Belt  | Rangiora  | \$5,255,000        | Jun-12                   | 8.8753ha               | \$592,000/ha                               |
| The land was zoned resi  | idential.   |                    |                          |                        |  |
| 306 Wigram Road  | Wigram  | \$6,000,000        | Mar-13                   | 10.7992ha              | \$556,000/ha                               |
| We understand there wa   | as a deferred terms p                               | payment arrangem   | ent which w              | rill discount this pri | ce to a lower level.                       |
|  |   |                    |                          |                        |  |

As can be seen there is a high degree of uniformity in the sales with block land of between 1.0 and 10.0 hectares having sold in a relatively tight band of \$500,000/ha - \$600,000/ha depending upon zoning and timing of development.

The closest of the more recent sales at 135 Claridges Road in Harewood is dated April 2012 for 6.7 hectares at a rate of \$462,000/ha. This land carried a proposed rezoning to Living G (residential) with the purchaser faced with the cost in achieving the rezoning and a time delay until development could be undertaken. The sales elsewhere of already zoned residential land would have indicated an uplift of between \$550,000/ha - \$600,000/ha when rezoning occurred. By comparison, the value of residential block land with levelling works already in place has been assessed at between \$650,000 and \$750,000/ha depending upon block size and the level of infrastructure in place.

### 9.0 Conclusion on Land Sales Evidence

The foregoing sales evidence has been drawn from sales of larger development blocks zoned for a mixture of urban and semi-urban activities within the Christchurch metropolitan urban limits comparable to uses proposed within the land use plan.

All of these sales relate to land which has frontage or access to roading and services with contours either level or near level and ready for development. In this regard the sales are comparable to the subject land which is already levelled and is assumed to be zoned with roading and services available to the extent identified on the land use plan.

On a comparable basis, we have concluded that similar development blocks located on the airport land would warrant values in the following range:

| Land Use Precinct    | Site Size      | Indicated Block Land Value Range |
|----------------------|----------------|----------------------------------|
| Commercial           | 1.0 - 2.0 ha   | \$2,500,000/ha - \$3,000,000/ha  |
| Industrial           | 1.0 - 10.0 ha  | \$1,250,000/ha - \$1,750,000/ha  |
| Residential          | 4.0 – 10.0 ha  | \$600,000/ha - \$750,000/ha      |
| Rural (Future Urban) | 10.0 – 20.0 ha | \$125,000/ha - \$150,000/ha      |

All this land would be transacted on a plus GST if any basis and in accordance with the surrounding pattern of land ownership we would see the sale of economically manageable development parcels ranging between 1.0 hectare up to 20 hectares in size depending upon the type of land use.

### 10.0 MVAU Valuation Approaches

In the following section of the report we have followed the MVAU Input Methodology determined by the Commerce Commission by considering the value of the land based upon the following approaches.

- · Block sales / zonal approach
- · Hypothetical block subdivision / residual approach
- Discounted cashflow / hypothetical block subdivision approach

The foregoing analysis of sales evidence and the adopted value parameters have been applied in determining our valuation of the airport land in its highest and best alternative use. As these block land values would be an outcome of a plan change process following the decision to cease Airport operations and would be undertaken within the statutory framework existing at or around the date of valuation, there are a number of adjustments which would need to be made in determining the price that an informed purchaser would pay for the land.

### 10.1 Block Sales / Zonal Approach

In this approach we have taken into account the following in assessing our MVAU value:

- i) Out of the total land area of 613 hectares TDG have estimated the amount of development land that would be available and therefore saleable in its rezoned state after deducting land required for internal roading reserves and infrastructure would be in the order of 551 hectares. The remainder of the land, some 61.5 hectares is required for either existing internal roads or the proposed future network roads through the Land Use Plan including land required for reserves and infrastructure.
- ii) The recommended allocation of land uses under the Land Use Plan has been applied to the net useable, rather than the gross land area to calculate the areas of productive land and the estimated cost of providing the required roading and services to support the allocated land uses adopted.

- iii) The resulting zonal approach to the valuation of the various land use precincts has been based upon the sales of block land outlined in this report adjusted for the amount of land in each of the precincts and assuming a notional sale in one line for each.
- iv) As referred to in our earlier advice from Planz, it has been estimated that under current RMA processes, time required in order to achieve an operative alternative land use plan would be in the order of 3 3½ years in order for the various regulatory processes to be completed. However, they have also pointed out that given the size of the site, its location over ground that is not subject to liquefaction and the fact that it is already serviced, then it is very plausible that rezoning to enable to the site to be used for a mix of industrial, commercial and residential purposes would be progressed under the CER Act. In the event that the powers available under this Act were to be used, then a plan change to rezone the Airport Precinct could be made operative within nine months according to the Planz advice.

For the purpose of this valuation we have adopted a two year planning period to achieve the necessary rezoning under the land use plan.

- v) Whilst there are some 35 currently available freehold titles accompanying the disclosure land which would be available for sale at the outset, much of the remaining land would be reliant upon achieving a rezoning before being offered to the market. The risks in the planning process are considered to be manageable, as are the estimated planning costs during the two year rezoning process. Whilst allowance for such risks will always be a matter of opinion however after consideration of the Planz advice we have adopted an allowance of 12.5% across all the proposed land uses. This allowance has been applied to the block value with land use zoning in place.
- vi) The final adjustment we have made relates the effect on price of a land transaction of this size as at the date. A purchaser for such a large parcel of land could expect to receive some form of price discounting or deferred settlement terms which would have the same effect. Based on our experience of similar circumstances where large trances of land have been purchased we have made an allowance of 10% for the expected terms of a cash settlement at the date.

The application of this rationale and the various allowances adopted have been captured within the following calculations.

### **Block Sales / Zonal Approach**

| Zoning Precinct   | % of Gross Area      | Net Area    | Rate (\$/ha)    | Value                     |  |
|---|----------------------|-------------|-----------------|---------------------------|--|
| Net Block Values subject to Plan Change                                 |                      |             |                 |                           |  |
| 1 Retail / Office   | 12%                  | 67.8198 ha  | \$1,000,000 /ha | \$67,819,759              |  |
| 2 Light Industrial / Distribution                                       | 31%                  | 173.4600 ha | \$600,000 /ha   | \$104,076,009             |  |
| 3 Residential   | 34%                  | 186.8379 ha | \$650,000 /ha   | \$121,444,616             |  |
| 4 Future Urban (outside MUL)  | 22%                  | 123.0961 ha | \$120,000 /ha   | \$14,771,526              |  |
|   | 100%                 | 551.2137 ha | \$558,970 /ha   | \$308,111,910             |  |
| 5 Existing Roading / Utilities  |                      | 11.7551 ha  |                 |                           |  |
| 6 Future Roading  |                      | 42.8000 ha  |                 |                           |  |
| 7 Reserves / Infrastructure   |                      | 7.0000 ha   |                 |                           |  |
|   | -                    | 612.7688 ha | \$502,820 /ha   | \$308,111,910             |  |
| Deduct Allow ance for Future Connecting Road Network including Services |                      |             |                 |                           |  |
|   | · ·                  |             | _               | \$210,530,814             |  |
| Defer for 2yrs to allow for Plan Change to become                       | e effective @ 8.0%pa |             |                 | \$180,496,240             |  |
| Indicated Block Values with Land Use Plan C                             | Change in Place      |             | \$294,600 /ha   | \$180,496,240             |  |
| Less Allowances for:  |                      |             |                 |                           |  |
| (i) Risk associated with achieving Plan C                               | Change               | @ 12.5%     |                 | (\$22,562,030)            |  |
|   |                      |             |                 |                           |  |
|   |                      |             | \$257,700 /ha   | \$157,934,210             |  |
| (ii) The effect of 'Rulk Purchasa' in the                               |                      |             |                 | ψ137,33 <del>4</del> ,210 |  |
| (ii) The effect of 'Bulk Purchase' in the market as at June 2013        |                      | @ 10.0%     |                 | . , ,                     |  |
| (ii) The effect of 'Bulk Purchase' in the market as at June 2013        |                      | @ 10.0%     |                 | (\$15,793,421)            |  |
| ( )   |                      | @ 10.0%     | \$232,000 /ha   |                           |  |

# 10.2 Hypothetical Subdivision / Residual Valuation Approaches

The Commerce Commission Input Methodology requires as one of the principal land valuation approaches notional subdivision / residual valuation approaches. These approaches can utilise discounted cashflow techniques which take into account the size of the land holding and assumptions surrounding a staged sell down of land to developers and/or end users.

The Planz land use plan provides a high level view of the development potential under alternative highest and best use. We have therefore approached a hypothetical subdivision value on the basis that a staged sell down plan would be promulgated post Plan Change and in advance of this a purchaser would gauge value based upon applying average per hectare rates to each of the proposed land use precincts. This is similar to the approach taken in the earlier zonal approach with the difference that the average land values are higher and take into account both the availability of internal roads and services based on the land use plan and the expected time to create and sell subdivided block land parcels.

We have adopted the position that a 3 year lead-in planning period would allow the bulk, if not all, of the existing title development land to be sold down with the balance land being offered as zoned future development blocks over the next12 year period. In this manner we gauge the total development period required to achieve an operative Plan Change and sell down the resulting development land including the future urban land to be 15 years (2028).

We have examined these approaches as follows:

### 10.2.1 Hypothetical Block Subdivision / Residual Approach

This approach proceeds on the basis that the purchaser would be an investor / land developer prepared to take a 15 year position to rezone, develop and sell down the majority of the land based on the proposed land use plan.

The capital costs incurred initially in addition to the land purchase would be holdings costs associated with the land purchase together with resource consent costs arising from the Plan Change. We have adopted an 7.5% holding cost of capital and an estimated planning cost of \$2.50M spread over 2-3 years.

Interest on capital outlay has been applied to 40% of the total outlay to reflect the expectation that capital outlaid over the initial 5-10 years of the project would be balanced in part by revenue from land sales.

In order to achieve block land sales from the various precincts TDG have estimated the cost of future roading network and services at some \$97.581M. These estimates include contingencies and professional fees and have been based upon TDG's summary calculations dated 26 August 2013.

Expected costs of sales have been taken at 2.5% of gross sales to provide for agents' commissions and legal fees on sale.

The Profit & Risk allowance has been taken at 27.5% of outlay which is a slightly lower profit margin than for subdivisions under a conventional more intensive staged development and reflects the strategy of selling larger development blocks over a shorter time frame.

We would anticipate that the first stage would be to find uses for the existing airport related land around the terminal buildings and industrial/warehousing uses in and around the existing hangar and maintenance buildings. Stage 2 development would be likely to expand in a westerly direction to include industrial and commercial developments centred on the expanding roading infrastructure with Stage 3 industrial extending into what are currently the northern and southern extremities of the runway.

Residential development would be likely to take place in tandem with Stages 1 and 2 with the main arterial roads through the development acting as a buffer between residential and industrial activities. This is similar to other larger greenfield developments such as Wigram where business and residential areas are developed concurrently, but marketed as separate propositions as part of an overall coherent master plan.

The estimate of revenue from block land sales has adopted similar precinct values to those contained in the block sales / zonal approach applied to the net useable land after deducting internal roading, reserves and utilities. We note that of the projected future commercial land area of 88.37 hectares some 42.5 hectares lies between Orchard Road and the eastern side of the runway with immediate access to an internal roading network and services. Furthermore, the availability of separate titles to much of this land would provide an ability to sell down serviced lots during the planning period.

The annual take up of existing zoned Business land over the first three years if 10.0 hectares annually. Thereafter the annual take up increases as residential block land is rezoned following the Plan Change with the expectation being that an equivalent sell down of 20 hectares annually would be achieved during Years 6 – 12 of the development as the residential precinct benefits from the developing business infrastructure.

As these are larger block land sales we would expect the full development of the land to extend beyond the 15 year investment period.

We have proceeded on the basis that the land with future urban potential west of Pound Road would be held back pending rezoning expected in 2028. The sale of this land is budgeted to take place in Years 13 and 14 of the project when rezoning is imminent.

Our valuation calculations under this approach are as follows.

### Value Based on Hypothetical Block Subdivision / Residual Approach

|  | % of Gross Area | Net Area    | Rate (\$/ha)     | Value           |
|--|-----------------|-------------|------------------|-----------------|
| Net Block Values subject to Plan Change  |                 |             |                  |                 |
| 1 Retail / Office                        | 12%             | 67.8198 ha  | \$2,600,000 /ha  | \$176,331,374   |
| 2 Light Industrial / Distribution        | 31%             | 173.4600 ha | \$1,400,000 /ha  | \$242,844,020   |
| 3 Residential                            | 34%             | 186.8379 ha | \$750,000 /ha    | \$140,128,403   |
| 4 Future Urban (outside MUL)             | 22%             | 123.0961 ha | \$150,000 /ha    | \$18,464,408    |
|  | 100%            | 551.2137 ha | *\$1,048,170 /ha | \$577,768,205   |
| 5 Existing Roading / Utilities           |                 | 11.7551 ha  |                  |                 |
| 6 Future Roading                         |                 | 42.8000 ha  |                  |                 |
| 7 Reserves / Infrastructure              |                 | 7.0000 ha   |                  |                 |
|  | -               | 612.7688 ha | \$942,880 /ha    |                 |
| Gross Realisation                        |                 |             |                  | \$577,768,205   |
| Less Selling Costs at 3%                 |                 |             |                  | (\$17,333,046)  |
| Net Realisation                          |                 |             | \$914,590 /ha    | \$560,435,159   |
| Profit and Risk @ 27.5% of Outlay        |                 |             |                  | (\$120,878,172) |
| Outlay                                   |                 |             |                  | \$439,556,987   |
| Less Development Costs:                  |                 |             |                  |                 |
| Future Connecting Road Network includ    | ing Sarvicas    |             | (\$97,581,096)   |                 |
|  | iilig Selvices  |             |                  |                 |
| Survey and Legal on Title                |                 |             | (\$500,000)      |                 |
| Planning and Consent Costs               |                 |             | (\$2,500,000)    |                 |
| Holding Costs: 15yrs @ 7.5%pa on 40%     | or Outlay       | ,           | (\$197,800,644)  |                 |
|  |                 |             | •                | (\$298,381,740) |
| Indicated Value of Block Disclosure Land |                 |             | \$230,390 /ha    | \$141,175,247   |

This approach results in an indicated block land value of circa \$141M which equates to some 25% of the expected revenue from zoned block land sales over a 15 year period. The ratio is lower than is often applied to the analysis of subdivisible block land relative to expected revenue from the subdivision. This is due to the fact that the realisation period is in this instance longer than normal as a result of the size of the block, and the effect that this has on holding costs. In this instance the holding costs amount to 35% of expected gross sales from the development but are spread over the 15 year development period.

In order to test these outcomes further we have undertaken a more detailed discounted cashflow approach incorporating explicit assumptions with regard to expected land take up.

### 10.2.2 Discounted Cashflow / Hypothetical Block Subdivision Approach

Using the serviced block land inputs a further approach to assist in the development value of the disclosure land has been to apply discounted cashflow over a 15 year investment period during which the bulk of the land would be sold down. This approach follows the same development rationale whereby larger serviced development blocks ranging in size between 1.0 and 4.0 hectares would be sold down based upon the roading layout illustrated in the land use plan. This approach requires a number of explicit assumptions relating to the timing of projected land sales and development costs with the adopted discount rate incorporating the margin on profit and risk required from the investment.

The assumptions adopted in this approach are as follows:

- During the 2-3 year period estimated to achieve an operative plan change, a phased cessation of airport activities would take place.
- During the planning phase the owner of the land would proceed to sell-down titled freehold land located within the airport zone which is serviced by its existing roading network. This would include the land in the vicinity of the current airport terminal and along the western periphery of the existing runway, much of which is proposed to be rezoned commercial under the land use plan.
- This sales programme could commence in year 1 and take place over the initial 3-5 years of the development.
- Planning costs would be incurred over a 2-3 year period associated with promulgating the plan change and engaging in any submissions, appeals and subsequent variations to the land use plan.
- Following the plan change taking effect the landowner would then commence construction of the internal roading network servicing the commercial and light industrial land lying to the east of the main north south arterial road.
- Following completion of this roading the resulting light industrial and retail / office land could be sold down in parcels ranging in size from 1 4 hectares over an 8 10 year period with expected buyers being bulk retailers, warehousing and logistics companies.

- We would expect the sale of land in the residential zone situated opposite
  the Harewood Golf Course to take place progressively from year 3
  onwards given the existing Pound Road frontage to much of this land. It
  could also be earlier if the airport operations were to cease. We have
  anticipated development parcels of 10 20 hectares being sold to housing
  companies in manageable parcels as roading works are completed.
- The rural zoned future urban land including the Harewood Golf Course land has been treated as being held for future urban potential and as an amenity for the residential area over the next 10-15 years. We anticipate that this land would be rezoned for urban use by 2028 given the expected expansion within the metropolitan urban area over the next 15 years.
- We have adopted land values which reflect the size of the blocks created by the land use plan and the proposed roading network. More intensive subdivision could be expected to achieve higher site values over time but with the prospect of higher development costs and a more extended take up of smaller serviced sites.
- Our valuation proceeds on the assumption that all the land is sold over a 15 year time frame including any undeveloped or future urban zoned land.
- An average growth rate of 3% per annum has been assumed for the purpose of escalating land values over the 15 year investment period.
- Development costings in accordance with the TDG estimates have been taken at \$97.581M with these costs being escalated at 2% per annum and the majority spread over years 4 - 8 of the development. In addition planning and consent costs of \$2.5M have been allocated over the first 2-3 years.
- We have discounted cashflows at an annual rate of 20.0% which takes into
  account the size and nature of the investment, the flexibility offered by the
  existing roading infrastructure and the availability of 35 current freehold
  titles accompanying the Disclosure Land.

The calculations incorporating these assumptions are contained within the Discounted Cashflow analysis at **Appendix V** to this report. A summary of this analysis is contained in the following table.

| Discount | Total         | On Gross     | On Useable   |
|----------|---------------|--------------|--------------|
| Rate     | NPV           | Land Area    | Land Area    |
| 17.50%   | \$163,860,000 | \$267,409/ha | \$297,271/ha |
| 20.00%   | \$143,255,000 | \$233,783/ha | \$259,890/ha |
| 22.50%   | \$126,444,000 | \$206,349/ha | \$229,392/ha |
| Adopt    | \$143,255,000 | \$233,783/ha | \$259,890/ha |

### 10.3 Reconciliation of Valuation Approaches

The foregoing valuation approaches are as at the effective date of 30 June 2013 and proceed on the basis of what was known at that date. The approaches provide a relatively close correlation in value.

The zonal approach based upon proposed land use precincts indicates a value of \$142.1M after allowing for Plan Change deferment, zoning risk and the bulk nature of the transaction.

The hypothetical subdivision / discounted cashflow approaches based upon a sell down of future development precincts indicate values in a range between \$141M and \$143M.

These approaches are summarised in the following table.

| Valuation Approach                      | Indicated Value |
|---|-----------------|
| Block Sales / Zonal Approach            | \$142,141,000   |
| Hypothetical Block Subdivision Approach | \$141,175,247   |
| DCF Block Subdivision Approach          | \$143,255,000   |

Given the close correlation of these valuation approaches we have concluded our valuation of land at the figure of:

# \$142,000,000 (ONE HUNDRED AND FORTY TWO MILLION DOLLARS)

Over the total disclosure land area of 612.7688 hectares this equates to an average rate of \$231,647 per hectare.

The foregoing value is plus GST if applicable.

### 11.0 Concluding Remarks

In accordance with the foregoing findings

We refer readers to our Statement of General Valuation Policies, a copy of which has been attached to this report.

We confirm that:

- As signing valuer, I have made a personal inspection of the property;
- The statements of fact presented in the report are correct to the best of our knowledge and the analyses and conclusions are limited only by the reported assumptions and conditions;
- We have no interest in the subject property;
- Our fee is not contingent upon any aspect of the report;
- As the signing Registered Valuer, I have satisfied the Professional Education Requirements and further, I have experience in this location and category of the property being valued;
- This valuation was carried out in accordance with the appropriate Code of Ethics, Code of Conduct and Performance Standards outlined in Valuation and Property Standards 2009; and
- No-one, except those specified in the report (if any) has provided professional assistance in preparing the report.

We trust this report has been of assistance to you and take this opportunity to thank you for your instructions. Should you require any additional information or if we can assist further please do not hesitate to contact the writer.

Yours faithfully

SEAGAD & DARTNERS

C N Seagar, FNZIV FPINZ Registered Valuer Director

The inspection of the property for this report was made for the purposes of valuation only and the report should not in any way be regarded as a structural survey

### **Statement of General Valuation Policies**

### **Publication**

Neither the whole nor any part of this valuation report or any reference to it may be included in any published document, circular or statement without the written approval of Seagar & Partners Limited as to the form and context in which it may appear.

### **Statutory Information**

Information has generally been obtained from a search of records and examination of documents or by enquiry of Government department or statutory authorities. Where it is stated in the valuation report that information has been supplied to us by another party, this information is believed to be reliable but we can accept no responsibility if this should prove to be not so. Unless otherwise noted, our assumption is that all structures and any fitout has all appropriate consents and certifications.

### Confidentiality

Our responsibility in connection with this valuation report is limited to the client to whom it is addressed; we disclaim all responsibility and accept no liability to any other party.

### **Purpose of Valuation**

This report has been prepared for the specific purpose stated and any party that relies upon it for an alternative purpose without specific reference to Seagar & Partners, does so at its own risk. This report and the conclusions contained herein can only be relied upon by the addressee and client, and Seagar & Partners shall not have any responsibility to any other party.

### Structural/Building Survey

- While in the course of inspection, due care is taken to note obvious building defects, no structural survey has been made. As a consequence, this report has been prepared on the assumption that, except where noted in this report, the building has been competently designed and built, is structurally sound and watertight. No undertaking is given about the absence of mould, fungi, mildew, rot, decay, gradual deterioration, micro-organisms, bacteria, protozoa or like forms, termite or pest infestation, deleterious substances such as asbestos or calcium chloride, or other hidden defects which could result in:
- The building ceasing to be watertight
- Gradual decay of the building including its structure.
- We can give no guarantee as to outstanding requisitions in respect of the subject building.

### **Site Survey**

We have made no survey of the property and assume no responsibility in connection with such matters. Unless otherwise stated it is assumed that all improvements lie within the title boundaries, the land is stable, and free of undue flood risk.

### **Plant & Machinery**

The valuation is conditional upon any lifts, hot and cold water systems, drainage systems, electrical systems, air-conditioning or ventilating systems and other installations being in proper working order and functioning for the purpose for which they were designed.

### Site or Environmental Contamination

Our valuation and report is conditional upon the land being free of any contamination or industrial waste problems unless otherwise noted.

### Compliance with Legislation

The Building Act 2004 and associated Codes and Regulations, the Health & Safety in Employment Act 1992, the Evacuation of Buildings Regulations 2006, and the Disabled Persons' Community Welfare Act 1975.

Unless otherwise stated in our report our valuation is on the basis that the property complies with the above legislation or that the legislation has no significant impact on the value of the property. We can give no undertakings and disclaim responsibility for the failure of any building or structure to comply with or to conform with the requirements of the above legislation, or to meet the level of performance, quality, fitness or durability of their intended purpose.

## **APPENDICES**

APPENDIX I Disclosure Land Breakdown

APPENDIX II Planz Consultants Report

APPENDIX III Future Development Land Use Plan

APPENDIX IV TDG Infrastructure Costings

APPENDIX V Discounted Cashflow

# DISCLOSURE LAND BREAKDOWN

# APPENDIX I D

|              |         |        |   | Land Aves      |
|--------------|---------|--------|---|----------------|
| Asset Ref    | Land ID | Title  | Description                                     | Land Area 2013 |
| Aircraft and |         | Title  | Description                                     | 20.0           |
| 112          | 14      | 93657  | NZ Post - Air Cargo Building 3                  | 1.1571 ha      |
| 116          | 13      | 93656  | Parceline Express                               | 0.5597 ha      |
| 117          | 3       | 93646  | Air NZ Hangar 1                                 | 8.2752 ha      |
| 117          | 3       | 93646  | Air NZ Hangar 1                                 | 0.6184 ha      |
| 281          | 39      | 544123 | Air NZ Hangar 4 - Paint Hangar                  | 1.0638 ha      |
| 119          | 12      | 93655  | Air NZ Hangar 3                                 | 1.6088 ha      |
| 120          | 10      | 93653  | Air NZ Hangar 5                                 | 0.6866 ha      |
| 135          | 17      | 93660  | ASA Antarctic Programme (Raytheon)              | 2.8941 ha      |
| 152          | 42      | 93685  | Private Hangar 1                                | 0.0120 ha      |
| 153          | 42      | 93685  | Private Hangar 2                                | 0.0120 ha      |
| 154          | 42      | 93685  | Private Hangar 3                                | 0.0120 Ha      |
|              |         |        |   |                |
| 155          | 42      | 93685  | Private Hangar 4                                | 0.0121 ha      |
| 155          | 42      | 93685  | Private Hangar 5                                | 0.0134 ha      |
| 156          | 42      | 93685  | Private Hangar 6                                | 0.0153 ha      |
| 157          | 42      | 93685  | Private Hangar 10                               | 0.0146 ha      |
| 158          | 42      | 93685  | Private Hangar 11                               | 0.0149 ha      |
| 159          | 42      | 93685  | Private Hangar 12                               | 0.0148 ha      |
| 160          | 42      | 93685  | Private Hangar 13                               | 0.0145 ha      |
| 161          | 42      | 93685  | Private Hangar 14                               | 0.0154 ha      |
| 162          | 42      | 93685  | Private Hangar 15                               | 0.0260 ha      |
| 174          | 6       | 93649  | BP Oil NZ - Fuel depot 1                        | 0.3919 ha      |
| 175          | 6       | 93649  | Mobil Oil - Fuel depot 2                        | 0.7224 ha      |
| 176          | 6       | 93649  | Greenstone Energy Ltd - Fuel depot 3            | 0.8275 ha      |
| 181          | 16      | 93659  | CanterburyAero Club & Hangar - Airfield Western | 0.7245 ha      |
| 182          | 16      | 93659  | Canterbury Aviation Ltd / Drake Aviation        | 0.0231 ha      |
| 165          | 30      | 93673  | Garden City Helicopters                         | 0.6402 ha      |
| 191          | 21      | 544125 | Hangar 5 - Eskimo Group                         | 0.4949 ha      |
| 215          | 16      | 93659  | Private Hangar PHW1                             | 0.0372 ha      |
| 217          | 16      | 93659  | Private Hangar PHW2                             | 0.0303 ha      |
| 218          | 16      | 93659  | Private Hangar PHW3                             | 0.0318 ha      |
| 219          | 42      | 93685  | Garden City Helicopters Hangar                  | 0.1198 ha      |
| 221          | 16      | 93659  | Private Hangar PHW4                             | 0.0326 ha      |
| 222          | 16      | 93659  | Allison Avionics                                | 0.0367 ha      |
| 225          | 16      | 93659  | Private Hangar PHW5                             | 0.0327 ha      |
| 232          | 16      | 93659  | Metservice Auto Weather Station                 | 0.2560 ha      |
| 233          | 16      | 93659  | Heliprop  | 0.0871 ha      |
| 234          | 16      | 93659  | Private Hangar PHW6                             | 0.0374 ha      |
| 249          | 16      | 93659  | Walkington Aviation Ltd                         | 0.0867 ha      |
| 258          | 35      | 93678  | NZ Customs container examination                | 0.3393 ha      |
| 273          | 16      | 93659  | BP New Zealand Ltd                              | 0.1017 ha      |
| 905          | 16      | 93659  | Vacant  | 6.1388 ha      |
| 905          | 16      | 93659  | Vacant  | 0.2799 ha      |
| 262          | 16      | 93659  | Hanlin Johnstone                                | 0.1000 ha      |
| 262          | 16      | 93659  | SkySales Aviation                               | 0.2500 ha      |
|              |         |        | Total Aircraft and Freight:                     | 28.8632        |
|              |         |        |   |                |
| Fireservice  |         |        |   |                |
| 178          | 1       | 544120 | CIAL - Air Fire Service - Building              | 0.8441 ha      |
|              |         |        | Total Fire Service:                             | 0.8441 ha      |

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|           |         |          |  | Land Avec         |
|-----------|---------|----------|--|-------------------|
| Asset Ref | Land ID | Title    | Description  | Land Area<br>2013 |
| Airfield  |         | 1100     |  |                   |
| 183       | 86      | 29B/501  | Harewood   | 0.0942 ha         |
| 183       | 87      | 8A/1257  | Harewood   | 51.3973 ha        |
| 183       | 87      | 8A/1257  | Harewood   | 0.0439 ha         |
| 183       | 89      | 250613   | Golf Course  | 46.4311 ha        |
| 183       | 89      | 11A/813  | Golf Course  | 0.8094 ha         |
| 194       | 1       | 544120   | Airways Corporation of New Zealand - Airfield Sites        | 32.3776 ha        |
| 205       | 1       | 544120   | Ex Radar Site Building                                     | 0.0001 ha         |
| 212       | 1       | 544120   | Meteorological Service of New Zealand Ltd - Airfield Sites | 0.0001 ha         |
| 973       | 1       | 544120   | Airfield Land  | 282.5928 ha       |
| 973       | 44      | 93687    | Operational Airfield - Airfield Land (Aprons)              | 5.1962 ha         |
| 973       | 21      | 544125   | Operational Airfield - Airfield Land                       | 0.0044 ha         |
| 973       | 2       | 93645    | Operational Airfield - Airfield Land                       | 4.4413 ha         |
| 973       | 10      | 194503   | Operational Airfield - Airfield Land                       | 0.1281 ha         |
| 973       | 13      | 93656    | Operational Airfield - Airfield Land                       | 0.1145 ha         |
| 973       | 16      | 93659    | Operational Airfield - Airfield Land                       | 6.7424 ha         |
| 973       | 16      | 93659    | Operational Airfield - Airfield Land                       | 0.0334 ha         |
| 973       | 30      | 93673    | Operational Airfield - Airfield Land                       | 2.2072 ha         |
| 973       | 32      | 93675    | Operational Airfield - Airfield Land                       | 6.3718 ha         |
| 973       | 38      | 93681    | Operational Airfield - Airfield Land                       | 0.9624 ha         |
| 973       | 39      | 544123   | Operational Airfield - Airfield Land                       | 0.1224 ha         |
| 973       | 39      | 544123   | Operational Airfield - Airfield Land                       | 0.0004 ha         |
| 973       | 42      | 93685    | Operational Airfield - Airfield Land                       | 1.5552 ha         |
| 973       | 45      | 544122   | Airways Tower  | 0.0179 ha         |
| 973       | 46      | 93689    | Operational Airfield - Airfield Land                       | 22.3245 ha        |
| 973       | 47      | 596575   | Operational Airfield - Airfield Land                       | 3.8995 ha         |
| 973       | 84      | 31K/157  | Operational Airfield - Airfield Land                       | 1.6608 ha         |
| 973       | 100     | 481/128  | Operational Airfield - Airfield Land                       | 1.3169 ha         |
| 980       | 1       | 93644    | Land Held for Development                                  | 53.8949 ha        |
| 980       | 42      | 93685    | Land Held for Development                                  | 0.9958 ha         |
| 980       | 69      | 37C/11   | Land Held for Development                                  | 0.0001 ha         |
| 980       | 85      | 33B/110  | Land Held for Development                                  | 4.3163 ha         |
| 980       | 90      | 36B/102  | Land Held for Development                                  | 5.8791 ha         |
| 980       | 92      | 36C/114  | Land Held for Development                                  | 6.8106 ha         |
| 980       | 93      | 40A/494  | Land Held for Development                                  | 9.6077 ha         |
| 980       | 99      | 481/129  | Land Held for Development                                  | 1.3160 ha         |
| 980       | 102     | 7C/61    | Land Held for Development                                  | 4.8149 ha         |
| 980       | 104     | 7C/60    | Land Held for Development                                  | 4.2644 ha         |
| 980       | 105     | 35B/852  | Land Held for Development                                  | 1.5946 ha         |
| 980       | 98      | 13K/1146 | N/A  | 0.8093 ha         |
| 231       | 13      | 93656    | Aviation Security  | 0.2879 ha         |
|           |         |          | Total Airfield:  | 565.4376          |

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|               |          |                |   | Land Area                   |
|---------------|----------|----------------|---|-----------------------------|
| Asset Ref     | Land ID  | Title          | Description   | 2013                        |
| Allocated Lai | nd       |                | ·   |                             |
| 104           | 44       | 544121         | International Terminal                                  | 1.4514 ha                   |
| 106           | 44       | 544121         | Regional Lounge   | 0.3764 ha                   |
| 105           | 44       | 544121         | International Building                                  | 1.4875 ha                   |
| 905           | 44       | 544121         | Northern end next to Coach Park                         | 0.2310 ha                   |
| 905           | 44       | 544121         | Northern end in front of Terminal                       | 0.2470 ha                   |
| 905           | 44       | 544121         | Southern end in front of Terminal                       | 0.1444 ha                   |
| 905           | 44       | 544121         | Southern end adjacent to Regional Lounge                | 0.1211 ha                   |
| 203           | 19       | 93662          | C.I.A.L. Maintenance Workshop / Yard                    | 1.2664 ha                   |
| 900           | 1        | 544120         | Farm  | 0.0001 ha                   |
| 936           | 1        | 544120         | Maintenance Yard - Other Buildings                      | 0.0001 ha                   |
| 970           | 5        | 93648          | Wairakei Road   | 1.0033 ha                   |
| 970           | 5        | 93648          | Ivan Crescent   | 1.0474 ha                   |
| 970           | 6        | 93649          | Kiosk   | 0.0010 ha                   |
| 970           | 6        | 93649          | Ivan Crescent   | 0.0005 ha                   |
| 970           | 6        | 93649          | Ivan Crescent   | 0.0003 ha                   |
| 970           | 7        | 93650          | Orchard Road  | 1.8952 ha                   |
| 970           | 13       | 93656          | Airside Access AVSEC                                    | 0.1576 ha                   |
| 970           | 14       | 93657          | Road Side   | 0.0865 ha                   |
| 970           | 16       | 93659          | Airways Power Centre No.2                               | 0.0726 ha                   |
| 970           | 16       | 93659          | Airways Power Centre No.2                               | 0.0204 ha                   |
| 970           | 18       | 93661          | Peter Leeming Road                                      | 0.0001 ha                   |
| 970           | 18       | 93661          | Peter Leeming Road                                      | 0.0002 ha                   |
| 970           | 19       | 93662          | Orchard Road  | 0.0002 ha                   |
| 970           | 22       | 93665          | Kiosk   | 0.0015 ha                   |
| 970           | 22       | 93665          | Access Way  | 0.0245 ha                   |
| 970           | 24       | 93667          | Peter Leeming Road                                      | 1.3855 ha                   |
| 970           | 30       | 93673          | Kiosk - Ivan Jamieson Road                              | 0.0012 ha                   |
| 970           | 30       | 93673          | Road Side - Robin Mann Place                            | 0.1276 ha                   |
| 970           | 30       | 93673          | Road Side - Ron Guthrey Road                            | 0.0009 ha                   |
| 970           | 30       | 93673          | Road Side - Russley Road                                | 1.7055 ha                   |
| 970           | 31       | 93674          | Roadway - Ivan Jamieson Place                           | 0.2530 ha                   |
| 970           | 31       | 93674          | Roadway - Bolt Place                                    | 0.2292 ha                   |
| 970           | 31       | 93674          | Roadway - Robin Mann Place                              | 0.2806 ha                   |
|               |          |                | · · · · · · · · · · · · · · · · · · ·                   |                             |
| 970<br>970    | 31<br>31 | 93674<br>93674 | Roadway - Richard Pearce Road  Roadway - Perimeter Road | 0.1469 ha<br>0.3263 ha      |
| 970           | 31       | 93674          | Roadway - Ron Guthrey Road                              | 0.3263 na<br>0.9610 ha      |
| 970           |          | 93674          | Rights of Way   | 0.9610 ha                   |
| 970           | 32<br>32 | 93675          | Rights of Way   | 0.0490 ha                   |
| 970           |          | 93675          | Rights of Way   | 0.0001 ha                   |
| 970           | 34       | 544124         | Perimeter Road  | 0.0470 ha                   |
|               | 37       |                |   |                             |
| 970           | 37       | 544124         | Orchard Road  | 0.3689 ha                   |
| 970           | 37<br>45 | 544124         | Ecolab  Readway Duroy Read (North)                      | 0.0087 ha                   |
| 970           | 45<br>45 | 544122         | Roadway - Durey Road (North)                            | 0.3796 ha                   |
| 970           | 45       | 544122         | Roadway - Durey Road (South)                            | 0.6457 ha                   |
| 970           | 45       | 544122         | Landscaping - Cnr Durey & Orchard                       | 0.2179 ha                   |
| 970           | 45       | 544122         | Landscaping - Btwn Rental Cars & Terminal               | 0.2062 ha                   |
| 990           | 1        | 544120         | Private Works  Total Allocated Land:                    | 0.0001 ha<br><b>17.6239</b> |
|               |          |                | i otal Allocateu Laliu.                                 | 17.0239                     |
|               |          |                | Total areas related to Disclosure Land                  | 612.7688                    |

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# PLANZ CONSULTANTS REPORT

## **APPENDIX II**

Chris Seagar Seagar & Partners Level 8, 52 Swanson Street AUCKLAND 1010

Dear Chris

Re: Review of plausible alternative uses for Christchurch International Airport

## Background

In 2011, Planit Associates were asked to provide a view on the plausible land uses that could eventuate were airport operations to cease at Christchurch International Airport. This advice was subsequently incorporated into a report prepared by yourself entitled "Christchurch International Airport Regulatory Asset Base as at 30 June 2009" and dated November 2011.

Planz Consultants Limited<sup>1</sup> have been requested to update our previous advice in order to inform a new valuation of the Airport assets as at 30<sup>th</sup> June 2013. In updating our advice I will focus in particular on changes to the statutory planning framework, following the 2010-11 Canterbury earthquake sequence. The geographic area under consideration is as per our previous advice. Rather than repeating the advice and land use assumptions set out in our 2011 correspondence, I will only comment where mattes have changed.

## **Statutory Context**

Since the time of my previous advice dated 18<sup>th</sup> October 2011, the second generation Canterbury Regional Policy Statement ('RPS') has been notified, hearings held, and the RPS made operative. The operative RPS has a 'missing' Chapter 6 that will address urban growth within the Change 1 Greater Christchurch portion of the Region. It was intended that Change 1 would form Chapter 6.

<sup>&</sup>lt;sup>1</sup> Planit RW Batty & Associates was rebranded as 'Planz Consultants Ltd' in 2012

At the time of our last advice, Change 1 had just been made operative on 14<sup>th</sup> October 2011 under direction from the Minister for Earthquake Recovery under the Canterbury Earthquake Recovery Act ('CER Act'). By using the CER Act, the usual Environment Court appeal process under the Resource Management Act was able to be avoided, with the practical affect that outstanding appeals on Change 1 were negated.

Several of these Environment Court appellants subsequently appealed the CER Act decision of the Minister to the High Court, with the High Court decision in turn appealed to the Court of Appeal. The net result of these proceedings can be summarized as:

- The Minister exceeded his authority under the CER Act and therefore the decision to make Change 1 operative was set aside;
- Change 1 and associated appeals were referred back to the Environment Court for consideration;
- The Minister then directed the Canterbury Regional Council to produce a Land Use Recovery Plan ('LURP') under the CER Act to direct recovery and the coordination of development and infrastructure in Greater Christchurch;
- The Environment Court appeals on Change 1 have been placed on hold while the LURP is developed, with it generally accepted that the LURP will supercede Change 1, at which point Change 1 will be withdrawn and associated appeals dismissed.

The LURP is currently being developed, with a 'preliminary draft' version released for public comment in March 2013. At the time of writing, these comments are being considered by the Regional Council (with input from the City and District Councils), with a final draft to be presented to the Minister in the first week in July. The Minister then has the option of making this revised draft available for further public comment, before finalizing the LURP. An operative LURP is anticipated in the final quarter of this year. It is important to note that the draft LURP (as amended by public feedback) will be forwarded to the Minister one week after the 30th June 2013 date for valuation. As such the current preliminary draft version is what I will rely on, acknowledging that it is still subject to amendment.

The preliminary draft LURP consists of a Plan that identifies broad priority issues and the necessary responses for addressing these priorities. The LURP also contains a number of appendices that direct amendments to the RPS and the various district plans. Of particular significance, Appendix 2 to the LURP includes amendments to the RPS by adding the missing Chapter 6. When the LURP is made operative, the

amendments to the RPS and the various District Plans will also be made operative, with no rights of appeal under the RMA.

The approach set out in proposed Chapter 6 to the RPS is broadly similar to that articulated in Change 1. The RPS will continue to identify an urban limit (now termed the 'existing urban area'), along with greenfield growth areas, referred to as 'priority areas'. I have attached as 'Appendix 1' a copy of Map A which shows the existing urban limits and the proposed greenfield priority areas. No urban growth beyond the existing urban area and greenfield priority areas is contemplated until 2028. Growth is to be accommodated through both greenfield expansion into the priority areas, and more intensive use and redevelopment of land within the existing urban area. For CIAL, the airport continues to be identified as being within the existing urban area. There is therefore ongoing strategic policy support for intensive urban use of the airport site, in the event that airport operations were to cease.

Chapter 6 identifies four new Business Priority Areas (shown on Attachment 1 as B4, B5, B6, and B7) located immediately east of the Airport between Russley Road and the current urban edge. These four areas have arisen out of the Change 1 hearing commissioners identifying the need for a further 100 hectares of business land in the north west of the City over and above the greenfield land previously identified in Change 1. In terms of urban form, the four priority areas effectively join the airport precinct to the urban edge of Christchurch and remove the current strip of rural zoned land that currently separates the two. Proposed Chapter 6 is explicit that greenfield priority business areas are to be used for industrial activities rather than office or retail.

The new business areas reinforce my earlier advice that redevelopment of the eastern side of the airport for light industry and distribution activities is plausible and is consistent with the direction in which strategic planning is moving regarding urban growth in the wider vicinity of the airport.

The redevelopment of existing business areas for higher value and more intensive forms of development is supported at a policy level, especially where such development is able to be serviced, and where the scale and nature of it is such that it does not detract from the City Centre or 'Key Activity Centres' that are based primarily around the larger suburban malls.

Proposed Chapter 6 is also explicit that rural residential activity (average of 1-2 households per hectare) should not occur within the existing urban area (Policy 6.3.8). This limitation of rural residential forms of development is combined with policy direction for intensification to occur within the existing urban area.

In the wider northwestern portion of Greater Christchurch, residential greenfield growth has been confirmed around the Belfast and Upper Styx areas, with the latter also subject to a rezoning change to the Christchurch City Plan promoted as an appendix to the LURP. Within Selwyn District, residential growth around West Melton

and Rolleston is also significant. In short, since the earthquakes there is significant urban growth anticipated within reasonable proximity to the airport, with residential growth just outside the air noise contours and business growth within these contours.

## Special Purpose (Airport) Zone plan change

As a separate process to the LURP, I am aware that CIAL and the Christchurch City Council are in discussions regarding progressing a plan change to amend the SPAZ provisions. It is my understanding that the purpose of this plan change is to provide greater clarity regarding the range of activities that can be undertaken within the Zone. Given that the formulation of this plan change is at an early stage, and that a draft plan change has yet to be released for public comment, I have relied upon the existing SPAZ provisions.

## Land & Water Regional Plan

The land and water chapters of the Canterbury Natural Resources Regional Plan ('NRRP') are in the process of being reviewed as a new Land and Water Regional Plan. This Plan is currently at the hearings stage in the plan development process. As a generalization, the Land and Water Regional Plan looks to simplify the complex provisions of the NRRP, and to provide a more succinct and directive policy framework. In terms of CIAL there is little material change, with controls on hazardous substances and 'wet industry' remaining restrictive given the airport's location over the unconfined aquifer. Whilst this Plan is yet to be finalized, it is considered to be extremely unlikely that it will be amended to liberalize the storage and use of large quantities of hazardous substances above the unconfined aquifer.

## Plausible alternative uses

I do not consider that the changes in the strategic planning framework outlined above have significantly affected my earlier advice in terms of plausible alternative uses. If anything, the continuing strategic emphasis on intensification within the existing urban area, promotion of business growth where it can make efficient use of existing network infrastructure, and the proposed development of light industrial areas immediately east of the airport precinct, support and lend weight to my earlier advice. Seagar & Partners will be able to provide detailed advice regarding property sales post-earthquake, however from a planning perspective I am aware of considerable growth in resource consents and rezoning occurring in western Christchurch (and further west within Selwyn District). The caution from a planning perspective of locating urban growth over the aquifer has now been balanced by recognition that the western parts of the City are above TC1 ground conditions that are able to support cost-effective building.

The only substantive change to my earlier advice is that I no longer consider the rural residential element to be likely, given the specific direction within the LURP that this form of housing should not occur within the existing urban area. The area previously

apportioned to rural residential in my previous advice could be equally reallocated to residential and light industrial, with the final mix dependant on the market at the time of release. I do consider that the interface between light industry and residential activities would need to be carefully designed, however such sensitive interface treatment is reasonably common and typically involves separation via an internal road, generous landscaped building setbacks, and where possible locating stormwater swales and linear open space linkages along the interface to increase separation and to provide adequate levels of amenity.

## Timeframes and rezoning process

Under the hypothetical scenario of airport operations ceasing immediately and permanently as at 30th June 2013, then I would anticipate that a change to the City Plan would be necessary to remove the existing airport-related special purpose zone, designation, and associated rule package including noise contours. Such a Plan Change would also facilitate an appropriate mix of new zones for the redevelopment of the airport land. As per my previous advice, were such rezoning to follow the standard RMA process then I would anticipate that a plan change for the entire airport site would take approximately 2 years to get through Council process, with Environment Court appeals (reasonably likely for a change of this scale) likely to take another 1-1.5 years so up to 3.5 years in total if there are appeals.

Given the size of the site, its location over ground that is not subject to liquefaction, and the fact that it is already serviced, then I believe it is very plausible that rezoning to enable the site to be used for a mix of industrial, commercial, and residential purposes would be progressed under the CER Act rather than the RMA. The Minister for Earthquake Recovery has wide ranging powers to direct changes to the City Plan. The LURP process is an example of plan changes to rezone land (Upper Styx in Christchurch and western Rangiora in Waimakariri District) being progressed outside of the usual RMA process. The RPS and associated Regional Land and Water Plan have likewise been progressed via non-RMA legislation that has facilitated their progression through the planning process, whilst still providing limited opportunity for public feedback. In the event that the powers available under the CER Act were used, then a plan change to rezone the airport precinct could be made operative within approximately 9 months, comprised of 5 months to develop the plan change, design Outline Development Plans, formulate zone provisions and the like, and 4 months to move through an abbreviated public process with no recourse to the **Environment Court.** 

Please do not hesitate to contact me on 964-4630 if you would like to discuss any of the above matters in more detail.

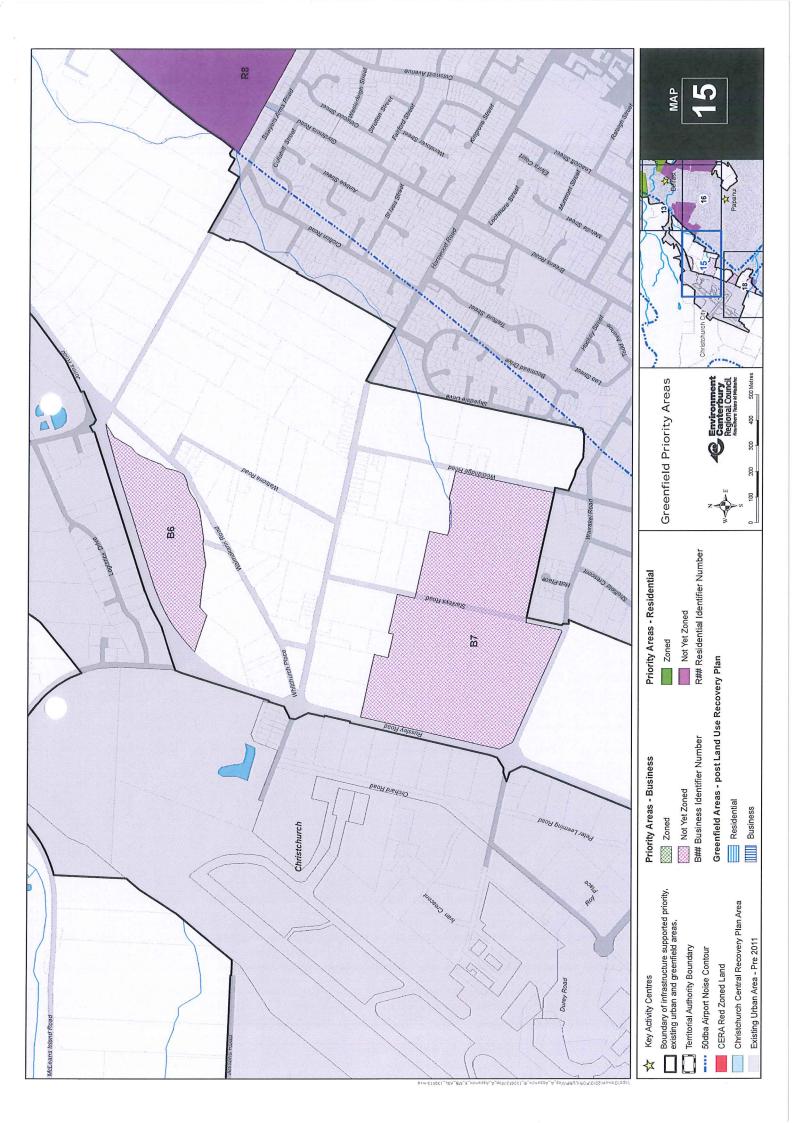
## Yours faithfully

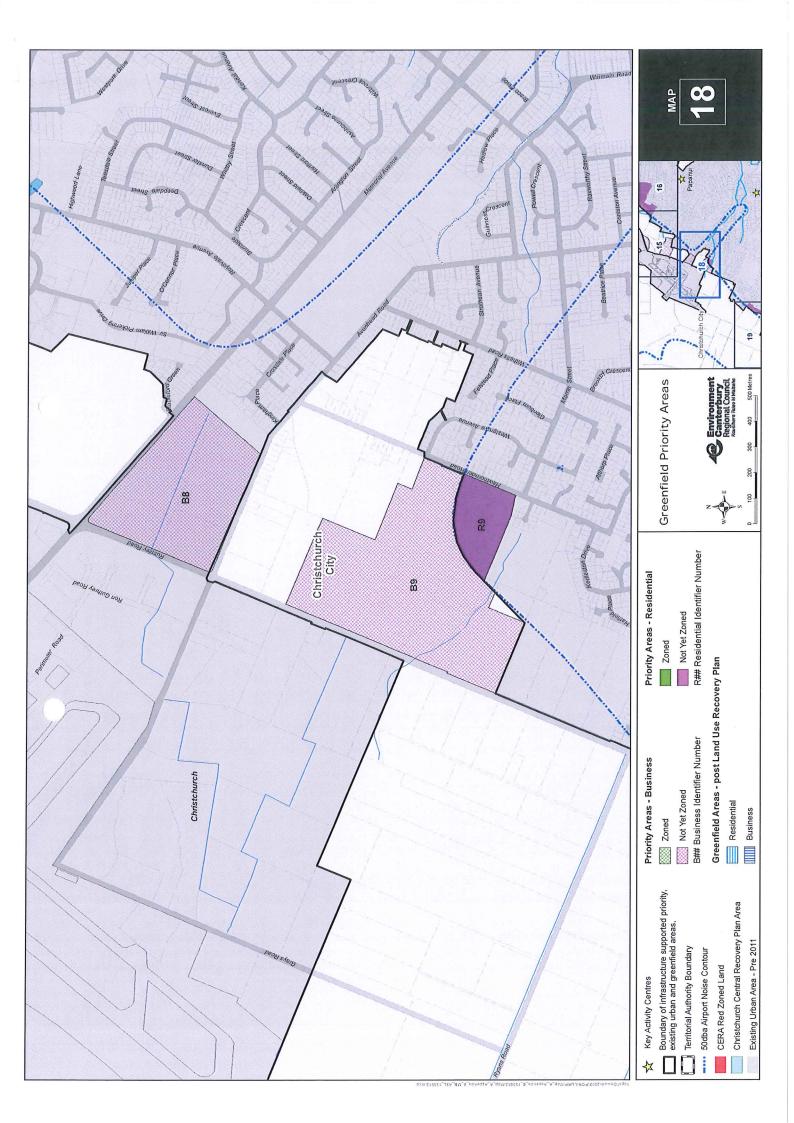
## Jonathan Clease

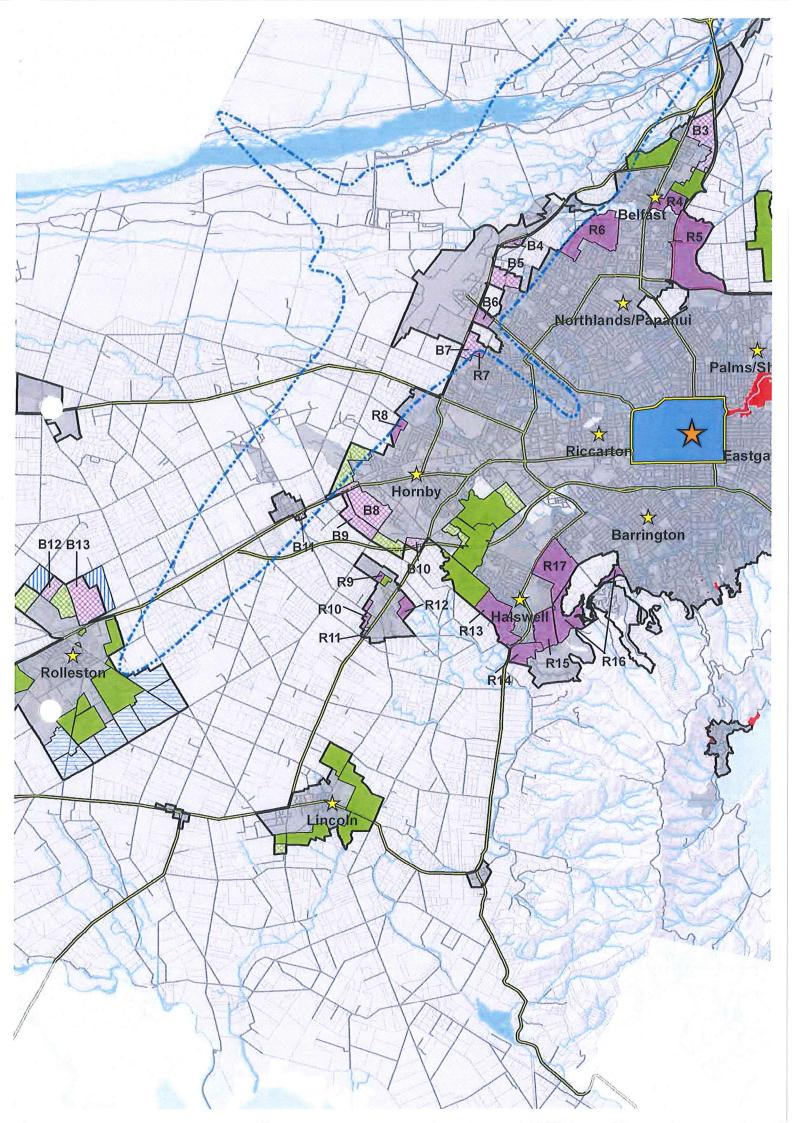
Senior Planner & Urban Designer

Planz Consultants Limited

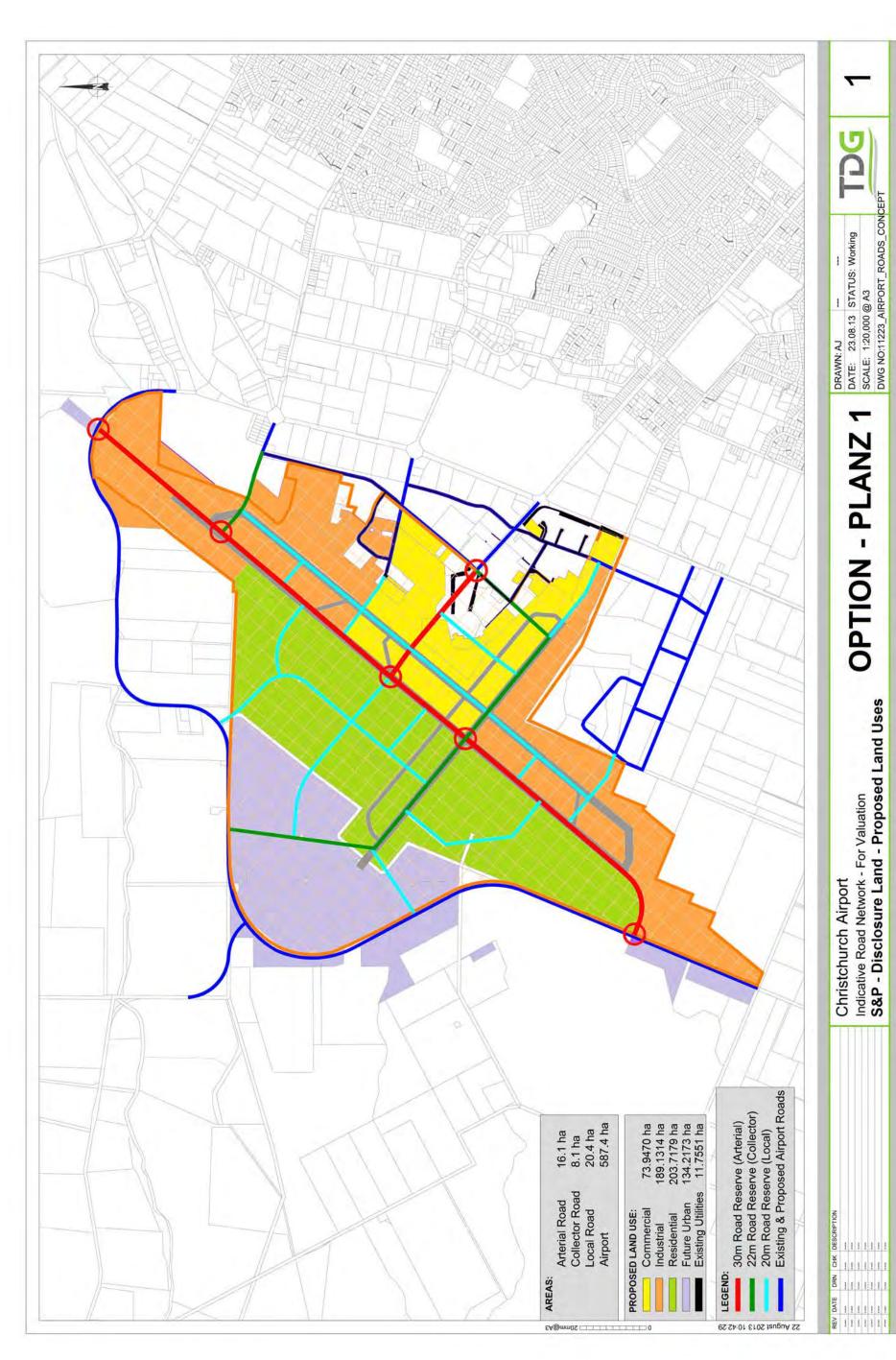
Attachment 1. LURP Map A to RPS Chapter 6 showing greenfield priority areas and the existing urban limits







## FUTURE LAND USE PLAN



99112000-12099112006 ChCh Airport Master Plan Update, CIAL\Drawings\ACAD\Valuation\11223\_Airport\_Roads\_Concept.dw

## **Filenote**



Job:

12006

To:

**George Eivers** 

From:

Chris Rossiter

Date:

28 August 2013

Subject:

Land valuation

Three road types are proposed for the valuation exercise: major arterial, collector and local. The cross-sections would be broadly as follows to be consistent with the City Plan infrastructure guidelines and cycle facility guidelines.

| Cross-section Cross-section | Arterial | Collector | Local |
|-----------------------------|----------|-----------|-------|
| Service Strip               | 1.0      | 0.5       | 0.5   |
| Footpath                    | 1.5      | 1.5       | 1.5   |
| Berm                        | 1.7      | 1.7       | 2.5   |
| Parking                     |          | 2.0       | 2.0   |
| Cycle lane                  | 1.8      | 1.8       |       |
| Traffic lane 1              | 3.5      | 3.5       | 3.5   |
| Traffic lane 2              | 3.5      |           |       |
| Median                      | 4.0      |           |       |
| Traffic lane 2              | 3.5      |           |       |
| Traffic lane 1              | 3.5      | 3.5       | 3.5   |
| Cycle lane                  | 1.8      | 1.8       |       |
| Parking                     |          | 2.0       | 2.0   |
| Berm                        | 1.7      | 1.7       | 2.5   |
| Footpath                    | 1.5      | 1.5       | 1.5   |
| Services                    | 1.0      | 0.5       | 0.5   |
| Total                       | 30.0     | 22.0      | 20.0  |

Table 1: Outline road cross-sections

The total road reserve required to service any development has been estimated using the road alignments shown in the attached drawing. The road reserve areas allow for the roads on the 105ha of land between the existing alignment of Pound Road and the proposed new alignment of Pound Road.

| Road type | East of Pound Rd | West of Pound Rd | Total |
|-----------|------------------|------------------|-------|
| Arterial  | 5.2              | 0.0              | 5.2   |
| Collector | 2.8              | 0.9              | 3.7   |
| Local     | 9.4              | 0.8              | 10.2  |
| Total     | 17.4             | 1.7              | 19.1  |

Table 2: Estimated road lengths (km)

| Road type | East of Pound Rd | West of Pound Rd | Total |
|-----------|------------------|------------------|-------|
| Arterial  | 15.6             | 0.0              | 15.6  |
| Collector | 6.2              | 2.0              | 8.2   |
| Local     | 18.8             | 0.2              | 19.0  |
| Total     | 40.6             | 2.2              | 42.8  |

Table 3: Estimated road reserve areas (ha)

For the purposes of the valuation, roundabouts are envisaged at the major intersections along the major arterial route. These would have a minimum island diameter of 24m and circulating carriageway widths of 11m.

The estimated construction cost for all roads is about \$98M. This reduces to about \$90M if the roads west of the existing alignment of Pound Road are excluded.

# TDG INFRASTRUCTURE COSTS

## Summary

|       |                               | SCHEDULE OF PRICES - SUMMARY SHEET   |                                 |               |
|-------|-------------------------------|--|---------------------------------|---------------|
| Proje | ct Number :                   | 12006.3  |                                 |               |
| Proje | ct Description:               | Christchurh Airport Network Valuation - Summary of all prices                |                                 |               |
| Draw  | ing Reference Number :        | 11223  | TDG                             |               |
| Date  | Prepared:                     | 26th August 2013   |                                 |               |
| Prepa | red By:                       | JO   | -                               |               |
| Chec  | ked By:                       | RG   |                                 |               |
| ITEN  |                               | DESCRIPTION  |                                 | TOTAL         |
| 1     | ARTERIAL ROADS (5.2km)        |  | \$                              | 32,008,552.80 |
| 2     | COLLECTOR ROADS (3.7k         | m)   | \$                              | 17,920,908.60 |
| 3     | LOCAL ROADS (10.2km)          |  | \$                              | 42,342,818.00 |
| 4     | NEW ROUNDABOUTS (x6           |  | \$                              | 5,308,816.8   |
|       |                               |  | COMBINED TOTAL \$ (EXCL GST) \$ | 97,581,096.20 |
|       |                               |  | Arterial roads price per M \$   | 6,155.4       |
|       |                               |  | Collector roads price per M \$  | 4,843.4       |
|       |                               |  | Local roads price per M \$      | 4,151.2       |
|       |                               | DESCRIPTION OF COSTING APPROACH  |                                 |               |
|       | All major intersections have  | been assumed as new roundabouts using dimensions as provided                 |                                 |               |
|       | All quantities have been calc | culated from areas on plan provided and dimensions on cross section provided |                                 |               |
|       | A contingency for each secti  | ion has been allowed for.  |                                 |               |
|       | Professional Fees for each s  | section have been allowed for.   |                                 |               |
|       | All items based on greenfield | ds site  |                                 |               |
|       | Fencing works have not bee    | n allowed for  |                                 |               |
|       | Topographical survey costs    | have not been allowed for.   |                                 |               |
|       | Pavement sampling and tes     | ting costs have not been allowed for.  |                                 |               |
|       | Consents have not been allo   | owed for   |                                 |               |
|       | Street Furniture has not bee  | n allowed for  |                                 |               |
|       | Traffic signals have not been | n allowed for  |                                 |               |

|                            | SCHEDULE OF PRICES - SUMMARY SHEET                 |
|----------------------------|--|
| Project Number :           | 12006.3  |
| Project Description:       | Christchurh Airport Network Valuation - Local Road |
| Drawing Reference Number : | 11223  |
| Date Prepared :            | 26th August 2013                                   |
| Prepared By:               | JO   |
| Checked By:                | RG   |



| n .  | ct description: Crinistenum Airport Network Valuation - Local Hoad  |    |              |
|------|---|----|--------------|
| _    | ing Reference Number: 11223   | 9  |              |
| _    | Prepared: 26th August 2013  |    |              |
| repa | red By: JO  |    |              |
| heck | ked By: RG  |    |              |
| ITEM | DESCRIPTION   |    | TOTAL        |
| 1    | PRELIMINARY AND GENERAL   | \$ | 81,000.      |
| 2    | EARTHWORKS  | \$ | 1,412,700.   |
| 3    | STORMWATER CONSTRUCTION   | \$ | 3,687,420.   |
| 4    | PAVEMENT WORKS  | \$ | 4,347,750.   |
| 5    | KERBING CONSTRUCTION  | \$ | 1,632,000.   |
| 6    | FIRST COAT SEALING  | \$ | 5,161,200.   |
| 7    | FOOTPATH AND BERM CONSTRUCTION  | \$ | 2,386,800.   |
| 8    | ROAD MARKING, SIGNS AND STREETLIGHTS  | \$ | 702,000.     |
| 9    | UTILITIES   | s  | 10,834,000.  |
| 10   | PROJECT SPECIFIC ITEMS  | S  | -            |
|      | SUB TOTAL \$ (EXCL GST)   | \$ | 30,244,870.0 |
| 11   | CONTINGENCY   | \$ | 7,561,217.   |
| 12   | PROFESSIONAL FEES   | \$ | 4,536,730.   |
| 12   | TOTAL \$ (EXCL GST)   | -  | 42,342,818.  |
|      | (Cont. 1)   | ¥  | 12,012,010   |
|      | Stormwater Construction item based on 300mm SW main running length of road with sumps / manholes every 90m  "Pavement Works" based on 250mm subbase and 150mm basecourse and 20% allowance for stabilisation & 30% allowance for undercutting |    |              |
| -    | *Kerbing Construction" based on non mountable kerb  |    |              |
| -    | *First Coat Sealing* based on 40mm thick asphalt concrete surfacing   |    |              |
|      | "Footpath Construction" based on rooss section provided   |    |              |
| -    |   |    |              |
|      | Berm Construction* based on cross section provided  |    |              |
|      | Fencing works have not been allowed for   |    |              |
|      | Road Marking based on cross section provided  |    |              |
|      | Signs works based on typical signage requirements   |    |              |
|      | Street lighting works based on typical lighting requirements  |    |              |
|      | Utilities: Telecom - 2 ducts + cable have been allowed for. Laterals have not been allowed for  |    |              |
|      | Utilities: Power - 2 ducts + cable have been allowed for. Laterals have not been allowed for  |    |              |
|      | Utilities: 2x spare ducts have been allowed for   |    |              |
|      | Utilities: 100mm gas main only has been allowed for.  |    |              |
|      | Utilities: 150mm watermain and 25mm laterals have been allowed for  |    |              |
|      | Utilities: 150mm sewer main and 100mm laterals have been allowed for  |    |              |
|      | A contingency has been allowed for.   |    |              |
|      | Water valves & meters have not been allowed for   |    |              |
|      | Topographical survey costs have not been allowed for.   |    |              |
|      |   |    |              |
| _    | Pavement sampling and testing costs have not been allowed for.  |    |              |
| _    | Professional Fees have been allowed for.  |    |              |
| _    | Professional Fees have been allowed for. All measurments and areas based on cross section and plan provided   |    |              |
| _    | Professional Fees have been allowed for.  All measurments and areas based on cross section and plan provided  Consents have not been allowed for  |    |              |
|      | Professional Fees have been allowed for.  All measurments and areas based on cross section and plan provided  Consents have not been allowed for  Street Furniture has not been allowed for   |    |              |
|      | Professional Fees have been allowed for.  All measurments and areas based on cross section and plan provided  Consents have not been allowed for  Street Furniture has not been allowed for  Fibre optic has not been allowed for             |    |              |
|      | Professional Fees have been allowed for.  All measurments and areas based on cross section and plan provided  Consents have not been allowed for  Street Furniture has not been allowed for   |    |              |

|                            | DETAILED SCHEDULE OF PRICES                       |  |  |
|----------------------------|---|--|--|
| Project Number :           | 12006.3   |  |  |
| Project Description:       | Christchurh Airport Network Valuation -Local Road |  |  |
| Drawing Reference Number : | 11223   |  |  |
| Date Prepared :            | 26th August 2013                                  |  |  |
| Prepared By:               | JO  |  |  |
| Checked By:                | BG  |  |  |



| Date Prepared: 26th August 2013   |      |         |                  |     |               |
|---|------|---------|------------------|-----|---------------|
| Prepared By: JO   |      | -       |                  |     |               |
| Checked By: RG  |      |         |                  |     |               |
| ITEM DESCRIPTION  | UNIT | QTY     | RATE             |     | TOTAL         |
| 1 PRELIMINARY AND GENERAL   |      |         |                  |     |               |
| 1.1 Establishment and Disestablishment                                  | L.S  | 1       | \$ 15,000.00     | \$  | 15,000.00     |
| 1.2 Traffic Management Plan   | L.S  | 1       | \$ 1,000.00      | \$  | 1,000.00      |
| 1.3 Site Safety Plan  | L.S  | 1       |                  | \$  |               |
| 1.4 Environmental Plan  | L.S  | 1       |                  | \$  |               |
| 1.5 On Site Traffic Control   | L.S  | 1       | \$ 50,000.00     |     | 50,000.00     |
| 1.6 Survey Control and Setting Out                                      | L.S  | 1       | \$ 5,000.00      | -   | 5,000.00      |
| 1.7 Quality Control Testing by Contractor                               | L.S  | 1       | 77 77 77 77      | \$  | 1.000.00      |
| 1.8 Supply as built information 2 EARTHWORKS                            | L,S  | 1       | \$ 10,000.00     | \$  | 10,000.00     |
| 2 EARTHWORKS 2.1 Topsoiling stripping 150mm thick                       | cu.m | 30600   | \$ 10.00         | \$  | 306,000,00    |
| 2.2 Cut to waste carraigeway  | cu.m | 38148   |                  |     | 953,700,00    |
| 2.3 Cut to waste footpaths  | cu.m | 6120    |                  | -   | 153,000.00    |
| 3 STORMWATER CONSTRUCTION   |      |         |                  |     |               |
| 3.1 Supply and construct 600mm dia, sump                                | each | 226     | \$ 1,200.00      | \$  | 271,200.00    |
| 3.2 Supply and construct 1050mm dia. stormwater manhole                 | each | 113     | \$ 3,000.00      | \$  | 339,000.00    |
| 3,3 Supply and construct 90mm dia, uPVC domestic stormwater conenctions | m    | 2550    |                  | \$  | 229,500.00    |
| 3.4 Supply and construct 225mm dia, stormwater pipe                     | m    | 1654    | \$ 180.00        | \$  | 297,720.00    |
| 3.5 Supply and construct 300mm dia. stormwater pipe                     | m    | 10200   | \$ 200,00        | \$  | 2,040,000.00  |
| 3.6 Supply and construct subsoil drainage                               | m    | 20400   | \$ 25.00         | \$  | 510,000.00    |
| 4 PAVEMENT WORKS  |      |         |                  |     |               |
| 4.1 Localised undercutting  | cu.m | 10098   | \$ 30.00         | I s | 302,940.00    |
| 4.2 Supply and place make up metal                                      | cu.m | 10098   |                  | \$  | 454,410.00    |
| 4.3 Sub-base construction with cement stabilisation 250mm thick         | sq.m | 22440   |                  | \$  | 561,000.00    |
| 4.4 Sub-base construction with AP65 250mm thick                         | sq.m | 89760   | \$ 15.00         | \$  | 1,346,400.00  |
| 4.5 Supply and construct basecourse 150mm thick                         | sq.m | 112200  | V 10.00          | \$  | 1,683,000.00  |
| 5 KERBING CONSTRUCTION  |      |         |                  |     |               |
| 5.1 Construct non mountable concrete kerb & channel                     | m    | 20400   | \$ 80,00         | \$  | 1,632,000.00  |
| 6 FIRST COAT SEALING  |      |         |                  |     |               |
| 6.1 Preparation of surface  | sq.m | 112200  | \$ 3.00          | \$  | 336,600.00    |
| 6.2 Supply and place grade 5 sealing chip                               | sq.m | 112200  | \$ 3.00          | \$  | 336,600.00    |
| 6.3 Asphaltic Concrete paving 50mm thick                                | sq.m | 112200  | \$ 40.00         | \$  | 4,488,000.00  |
| 7 FOOTPATH AND BERM CONSTRUCTION  |      |         |                  |     |               |
| 7.1 Construct concrete footpath / vehicle crossing 100mm thick          | sq.m | 27540   | \$ 60.00         | \$  | 1,652,400.00  |
| 7.2 Construct reinforced concrete vehicle crossing 150mm thick          | sq.m | 3060    | \$ 80.00         | \$  | 244,800.00    |
| 7.3 Construct grass berm areas  | sq.m | 61200   | \$ 8.00          | \$  | 489,600.00    |
| 8 ROAD MARKING, SIGNS AND STREETLIGHTS                                  |      |         |                  |     |               |
| 8.1 Install Roadmarking & RRPM's  | L.S  | 1       | \$ 50,000.00     | \$  | 50,000.00     |
| 8.2 Supply & Install new signs  | each | 100     | \$ 400,00        | \$  | 40,000.00     |
| 8.3 Supply and Install new streetlights                                 | each | 204     | \$ 3,000.00      | \$  | 612,000.00    |
| 9 UTILITIES   |      |         |                  |     |               |
| 9,1 Offset/Protect Survey Marks   | each | 20      | \$ 2,000.00      | \$  | 40,000.00     |
| 9.2 New 150mm SN16 uPVC sewer main                                      | m    | 10200   | \$ 100.00        | \$  | 1,020,000.00  |
| 9.3 New 1050mm dia sewer manhole  | each | 113     | \$ 3,000.00      | \$  | 339,000.00    |
| 9.4 New 100mm uPVC sewer laterals                                       | m    | 5100    | \$ 75.00         | \$  | 382,500.00    |
| 9.5 New 25mm PE water laterals  | m    | 5100    | \$ 15,00         | \$  | 76,500.00     |
| 9.6 New 150mm dia PVC water main  | m    | 10200   | \$ 250.00        | \$  | 2,550,000.00  |
| 9.7 New power cable & ducting   | m    | 20400   | 100.00           | \$  | 2,040,000.00  |
| 9.8 New telecom cable & ducting   | m    | 20400   | 65.00            | \$  | 1,326,000.00  |
| 9.9 New spare ducting   | m    | 20400   | 50.00            | \$  | 1,020,000.00  |
| 9.10 New gas main   | m    | 10200   | 200,00           | \$  | 2,040,000.00  |
| 10 PROJECT SPECIFIC ITEMS   |      |         |                  |     |               |
| 10.1 To be added as required  |      |         |                  | \$  |               |
| 10.2 To be added as required  |      |         |                  | \$  |               |
| 10,3 To be added as required  |      |         |                  | \$  |               |
| 10.4 To be added as required  |      |         |                  | \$  | 4.7           |
| 10.5 To be added as required  |      |         |                  | \$  |               |
|   |      | SUB TOT | AL \$ (EXCL GST) | _   | 30,244,870,00 |
| 11 CONTINGENCY  |      |         |                  |     |               |
| I1.1 Contingency  | L,S  | 25%     | \$ 30,244,870.00 | \$  | 7,561,217.50  |
| 12 PROFESSIONAL FEES  |      |         |                  |     |               |
| 12.1 Fees   | L.S  | 15%     | \$ 30,244,870.00 | \$  | 4,536,730.50  |

Schedule

TOTAL \$ (EXCL GST) \$ 42,342,818.00

## Summary

|       |                               | SCHEDULE OF PRICES - SUMMARY SHEET   |                                 |               |
|-------|-------------------------------|--|---------------------------------|---------------|
| Proje | ct Number :                   | 12006.3  |                                 |               |
| Proje | ct Description:               | Christchurh Airport Network Valuation - Summary of all prices                |                                 |               |
| Draw  | ing Reference Number :        | 11223  | TDG                             |               |
| Date  | Prepared:                     | 26th August 2013   |                                 |               |
| Prepa | red By:                       | JO   | -                               |               |
| Chec  | ked By:                       | RG   |                                 |               |
| ITEN  |                               | DESCRIPTION  |                                 | TOTAL         |
| 1     | ARTERIAL ROADS (5.2km)        |  | \$                              | 32,008,552.80 |
| 2     | COLLECTOR ROADS (3.7k         | m)   | \$                              | 17,920,908.60 |
| 3     | LOCAL ROADS (10.2km)          |  | \$                              | 42,342,818.00 |
| 4     | NEW ROUNDABOUTS (x6           |  | \$                              | 5,308,816.8   |
|       |                               |  | COMBINED TOTAL \$ (EXCL GST) \$ | 97,581,096.20 |
|       |                               |  | Arterial roads price per M \$   | 6,155.4       |
|       |                               |  | Collector roads price per M \$  | 4,843.4       |
|       |                               |  | Local roads price per M \$      | 4,151.2       |
|       |                               | DESCRIPTION OF COSTING APPROACH  |                                 |               |
|       | All major intersections have  | been assumed as new roundabouts using dimensions as provided                 |                                 |               |
|       | All quantities have been calc | culated from areas on plan provided and dimensions on cross section provided |                                 |               |
|       | A contingency for each secti  | ion has been allowed for.  |                                 |               |
|       | Professional Fees for each s  | section have been allowed for.   |                                 |               |
|       | All items based on greenfield | ds site  |                                 |               |
|       | Fencing works have not bee    | n allowed for  |                                 |               |
|       | Topographical survey costs    | have not been allowed for.   |                                 |               |
|       | Pavement sampling and tes     | ting costs have not been allowed for.  |                                 |               |
|       | Consents have not been allo   | owed for   |                                 |               |
|       | Street Furniture has not bee  | n allowed for  |                                 |               |
|       | Traffic signals have not been | n allowed for  |                                 |               |

|                            |                      | SCHEDULE OF PRICES - SUMMARY SHEE                            | T |
|----------------------------|----------------------|--|---|
| Proje                      | ect Number :         | 12006.3  | T |
| Proje                      | ect Description:     | Christchurch Airport Road Network Valuation - Arterial Roads |   |
| Drawing Reference Number : |                      | 11223  |   |
| Date                       | Prepared :           | 26 August 2013   |   |
| Prepa                      | ared By:             | JO   | 1 |
| Chec                       | ked By:              | RG   | 1 |
| ITEN                       | A.                   | DESCRIPTION  |   |
| 1                          | PRELIMINARY AND GENE | RAL  |   |
| 2                          | EARTHWORKS           |  |   |



| Check | ed By: RG  |                     |
|-------|--|---------------------|
| ITEM  | DESCRIPTION  | TOTAL               |
| 1     | PRELIMINARY AND GENERAL  | \$<br>86,000.00     |
| 2     | EARTHWORKS   | \$<br>1,185,650.00  |
| 3     | STORMWATER CONSTRUCTION  | \$<br>1,934,955.00  |
| 4     | PAVEMENT WORKS   | \$<br>4,341,170.00  |
| 5     | KERBING CONSTRUCTION   | \$<br>2,529,840.00  |
| 6     | FIRST COAT SEALING   | \$<br>4,929,408.00  |
| 7     | FOOTPATH AND BERM CONSTRUCTION   | \$<br>1,048,744.00  |
| 8     | ROAD MARKING, SIGNS AND STREETLIGHTS   | \$<br>429,000.00    |
| 9     | UTILITIES  | \$<br>6,378,485.00  |
| 10    | PROJECT SPECIFIC ITEMS   | \$<br>              |
|       | SUB TOTAL \$ (EXCL GST)  | \$<br>22,863,252.00 |
| 11    | CONTINGENCY  | \$<br>5,715,813.00  |
| 12    | PROFESSIONAL FEES  | \$<br>3,429,487.80  |
|       | TOTAL \$ (EXCL GST)  | \$<br>32,008,552.80 |
|       | DESCRIPTION OF COSTING APPROACH  |                     |
|       | General item includes: Establishment/Disestablishment, Traffic Management Plan, On Site Traffic Control, Survey Control and Setting Out, and As-builts |                     |
|       | Called the bank of the dealer dealer species   |                     |

| DES   | CRIPTION OF COSTING APPROACH   |
|---|--|
| General item includes: Establishment/Disestablishment, Traffic Manageme   | ent Plan, On Site Traffic Control, Survey Control and Setting Out, and As-builts |
| Earthworks item based on flat land and no clearing required   |  |
| Stormwater Construction item based on 300mm SW main running length of   | of road with sumps / manholes every 90m  |
| "Pavement Works" based on 150mm basecourse and 250mm thick subba  | se   |
| Kerbing Construction based on non mountable kerb and channel, and mou   | untable nib for median   |
| First Coat Sealing based on 40mm asphalt concrete surfacing   |  |
| Footpath Construction based on cross section provided   |  |
| Berm Construction based oncross section supplied, formation of grass top  | soling and regrassing  |
| Fencing works have not been allowed for   |  |
| Road Marking based on cross section provided  |  |
| Signs works based on typical signage requirements   |  |
| Street lighting works based on typical streetlight requirements   |  |
| Utilities: Telecom - 3 ducts + cable have been allowed for. Laterals have r                                       | not been allowed for   |
| Utilities: Power - 3 ducts + cable have been allowed for, Laterals have not                                       | been allowed for   |
| Utilities: 2x spare ducts have been allowed for   |  |
| Utilities: 100mm gas main only has been allowed for   |  |
| Utilities: 150mm watermain and 25mm laterals have been allowed for  |  |
| Utilities: 150mm sewer main and 100mm laterals have been allowed for  |  |
| A contingency has been allowed for.   |  |
| Water valves & meters have not been allowed for   |  |
| Topographical survey costs have not been allowed for.   |  |
| Pavement sampling and testing costs have not been allowed for.  |  |
| Professional Fees have been allowed for.  |  |
| All measurments and areas based on cross section and plan provided  |  |
| Fibre optic has not been allowed for  |  |
| Power transformers have not been allowed fror   |  |
| Consents have not been allowed for  |  |
| Street Furniture has not been allowed for   |  |
| Traffic signals have not been allowed for  Utility pits / manholes(Power / Telecom etc) have not been allowed for |  |

| Destant | Nok  | DETAILED SCHEDULE O  | FRICES       |               |              |           |               |
|---------|--|--|--------------|---------------|--------------|-----------|---------------|
| _       | Number :<br>Description:                                   | 12006.3  Christchurch Airport Road Network Valuation - Arteria | Boads        | 100           |              |           |               |
|         | g Reference Number :                                       | 11223  | Tioudo       |               | D            |           |               |
|         | epared :   | 26 August 2013   |              | 1             |              | -         |               |
| Prepare | ed By:   | JO   |              |               |              |           |               |
| Checke  | d By:  | RG   |              |               |              |           |               |
| ITEM    |  | DESCRIPTION  | UNIT         | QTY           | RATE         |           | TOTAL         |
| 1       | PRELIMINARY AND GENE                                       |  | li c         |               | 6 20.0       | 00.00 \$  | 20,000,00     |
| 1.1     | Establishment and Disestabl<br>Traffic Management Plan     | Isnment  | L.S<br>L.S   | 1             |              | 00.00 \$  |               |
| 1.3     | Site Safety Plan   |  | L.S          | ·             | V 110        | \$        |               |
| 1.4     | Environmental Plan   |  | L.S          |               |              | \$        |               |
| 1.5     | On Site Traffic Control                                    |  | L.S          | 1             | \$ 50,0      | 00.00 \$  | 50,000.00     |
| 1.6     | Survey Control and Setting C                               | Dut  | L.S          | 1             | \$ 10,0      | 00.00 \$  | 10,000.00     |
| 1.7     | Quality Control Testing by Co                              | ontractor  | L.S          |               |              | \$        |               |
| 1.7     | Supply as built information                                |  | L.S          | 1             | \$ 5,0       | 00.00 \$  | 5,000.00      |
| 2.2     | EARTHWORKS Topsoiling stripping 150mm                      |  | cu,m         | 15560         | \$           | 10.00 \$  | 155,600,00    |
| 2.4     | Cut to waste carraigeway                                   |  | cu.m         | 38090         |              | 25.00 \$  |               |
| 2.4     | Cut to waste footpaths                                     |  | cu.m         | 3112          | \$           | 25.00 \$  | 77,800.00     |
| 3       | STORMWATER CONSTRU   | 201200   |              |               |              |           |               |
| 3.1     | Supply and construct 600mm                                 |  | each         | 115           |              | 00.00 \$  |               |
| 3.2     | Supply and construct 1050m                                 |  | each         | 58            |              | 00.00 \$  |               |
| 3.3     |  | dia, uPVC domestic stormwater conenctions                      | m            | 1945<br>841   |              | 90.00 \$  | 17553.54      |
| 3.4     | Supply and construct 225mm<br>Supply and construct 300mm   |  | m            | 5186          |              | 00.00 \$  |               |
|         | Supply and construct subsoil                               |  | m            | 10373         | 2            | 25.00 \$  |               |
|         | PAVEMENT WORKS   |  |              |               |              |           |               |
| 4.1     | Localised undercutting                                     |  | cu.m         | 10082         | \$           | 30.00 \$  | 302,460.00    |
| 4.2     | Supply and place make up m                                 | netal  | cu,m         | 10082         | \$           | 45.00 \$  | 453,690,00    |
| 4.3     | Sub-base construction with c                               | ement stabilisation 250mm thick                                | sq.m         | 22406         | -            | 25.00 \$  |               |
|         | Sub-base construction with A                               |  | sq.m         | 89626         |              | 15.00 \$  |               |
| -       | Supply and construct baseco                                |  | sq.m         | 112032        | \$           | 15.00 \$  | 1,680,480.00  |
|         | KERBING CONSTRUCTION                                       |  | m            | 10000         | \$           | 70.00 \$  | 700,000.00    |
| 5.1     | Construct mountable concret<br>Construct non mountable cor |  | m            | 10373         |              | 80.00 \$  |               |
| -       | Median concrete infill                                     | NOTE A STATE OF  | sq.m         | 20000         |              | 50.00 \$  |               |
|         | FIRST COAT SEALING   |  |              |               |              |           |               |
| 6.1     | Preparation of surface                                     |  | sq.m         | 112032        | \$           | 1.00 \$   | 112,032.00    |
| 6.4     | Supply and place grade 5 me                                | embrane seal   | sq.m         | 112032        | \$           | 3.00 \$   | 336,096.00    |
|         | Asphaltic Concrete paving 40                               |  | sq.m         | 112032        | \$           | 40.00 \$  | 4,481,280.00  |
|         | FOOTPATH AND BERM CO                                       |  |              | 44004         | ^            | ro oo l o | 700 000 00    |
| _       |  | vehicle crossing 100mm thick e vehicle crossing 150mm thick    | sq.m<br>sq.m | 14004<br>1556 |              | 50.00 \$  |               |
| _       | Construct grass berm areas                                 | e vericle crossing footini tilick                              | sq.m         | 28008         |              | 8.00 \$   |               |
|         | ROAD MARKING, SIGNS A                                      | ND STREETLIGHTS  |              |               |              |           |               |
|         | Install Roadmarking & RRPM                                 |  | L.S          | 1             | \$ 100,0     | 00.00 \$  | 100,000.00    |
| 8.2     | Supply & Install new signs                                 |  | each         | 50            | \$ 4         | 00.00 \$  | 20,000.00     |
| 8.3     | Supply and Install new street                              | lights   | each         | 103           | \$ 3,0       | 00.00 \$  | 309,000.00    |
|         | UTILITIES  |  |              |               |              |           | 00.000.00     |
|         | Offset/Protect Survey Marks                                | do stati   | each         | 16            |              | 00.00 \$  |               |
|         | New 150mm SN16 uPVC se<br>New 1050mm dia sewer man         |  | m<br>each    | 5187<br>58    |              | 00.00 \$  |               |
|         | New 100mm uPVC sewer late                                  |  | m            | 2593          |              | 75.00 \$  |               |
| _       | New 25mm PE water laterals                                 |  | m            | 2593          |              | 15.00 \$  |               |
| 7.27    | New 150mm dia PVC water r                                  |  | m            | 5187          | \$ 2         | 50.00 \$  | 1,296,750.00  |
| 9.7     | New power cable & ducting                                  |  | m            | 15561         |              | 00.00 \$  | 1,556,100.00  |
| 9,8     | New telecom cable & ducting                                |  | m            | 15561         |              | 65,00 \$  |               |
|         | New spare ducting  |  | m            | 10374         |              | 50.00 \$  |               |
|         | New 100mm gas main   |  | m            | 5187          |              | 200.00 \$ | 1,037,400.00  |
| -       | PROJECT SPECIFIC ITEMS  To be added as required            |  |              |               |              | \$        |               |
|         | To be added as required                                    |  |              |               |              | \$        |               |
| -       | To be added as required                                    |  |              |               |              | \$        |               |
| _       | To be added as required                                    |  |              |               |              | \$        |               |
| 10.5    | To be added as required                                    |  |              | CUD 70        | TAL C/EVAL   | GST\ S    |               |
| 11      | CONTINGENCY  |  |              | SUB IC        | TAL \$ (EXCL | 331) \$   | 22,863,252.00 |
| -       | Contingency  |  | L,S          | 25%           | \$ 22,863,2  | 52.00 \$  | 5,715,813.00  |
|         | PROFESSIONAL FEES  |  |              |               |              |           |               |
| 12.1    | Fees   |  | L.S          | 15%           | \$ 22,863,2  | 52.00 \$  | 3,429,487.80  |

| Schedule |  |  |  |
|----------|--|--|--|
|          |  |  |  |

TOTAL \$ (EXCL GST) \$

32,008,552.80

|                            | SCHEDULE OF PRICES - SUMMARY SHEET                     |
|----------------------------|--|
| Project Number :           | 12006.3  |
| Project Description:       | Christchurh Airport Network Valuation - Collector Road |
| Drawing Reference Number : | 11223  |
| Date Prepared :            | 26th August 2013                                       |
| Prepared By:               | JO   |
| Checked By:                | RG   |



| red: 26th August 2013 y: JO y: RG  DESCRIPTION  LIMINARY AND GENERAL THWORKS RMWATER CONSTRUCTION EMENT WORKS BING CONSTRUCTION T COAT SEALING TPATH AND BERM CONSTRUCTION D MARKING, SIGNS AND STREETLIGHTS ITIES JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TINGENCY) FESSIONAL FEES  DESCRIPTION OF COSTING APPROACH rral item includes: Establishment/Disestablishment/  | \$  | TOTAL 60,000.0 644,875.0 1,340,625.0 2,082,970.0 589,120.0 2,472,684.0 814,380.0 259,000.0 4,536,995.0 - 12,800,649.0 3,200,162.2 1,920,097.3 17,920,908.6   |
|--|---|--|
| DESCRIPTION  LIMINARY AND GENERAL  THWORKS  RAWATER CONSTRUCTION  EMENT WORKS  BING CONSTRUCTION  T COAT SEALING  TPATH AND BERM CONSTRUCTION  D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST        | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 60,000.0<br>644,875.0<br>1,340,625.0<br>2,082,970.0<br>589,120.0<br>2,472,684.0<br>814,380.0<br>259,000.0<br>4,536,995.0<br>-<br>12,800,649.0<br>3,200,162.2<br>1,920,097.3  |
| DESCRIPTION  LIMINARY AND GENERAL  THWORKS  RMWATER CONSTRUCTION  EMENT WORKS  BING CONSTRUCTION  T COAT SEALING  TPATH AND BERM CONSTRUCTION  D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST        | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 60,000.0<br>644,875.0<br>1,340,625.0<br>2,082,970.0<br>589,120.0<br>2,472,684.0<br>814,380.0<br>259,000.0<br>4,536,995.0<br>   |
| DESCRIPTION  LIMINARY AND GENERAL  THWORKS  RAMWATER CONSTRUCTION  EMENT WORKS  BING CONSTRUCTION  IT COAT SEALING  TPATH AND BERM CONSTRUCTION  D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TINGENCY)  FESSIONAL FEES  TOTAL \$ (EXCL GST TOTAL \$        | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 60,000. 644,875. 1,340,625. 2,082,970. 589,120. 2,472,684. 814,380. 259,000. 4,536,995. 12,800,649. 3,200,162.: 1,920,097.   |
| LIMINARY AND GENERAL THWORKS RAMWATER CONSTRUCTION EMENT WORKS BING CONSTRUCTION T COAT SEALING TPATH AND BERM CONSTRUCTION D MARKING, SIGNS AND STREETLIGHTS ITIES JECT SPECIFIC ITEMS SUB TOTAL \$ (EXCL GST TINGENCY) FESSIONAL FEES TOTAL \$ (EXCL GST TOTAL \$ (EXCL G       | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 60,000. 644,875. 1,340,625. 2,082,970. 589,120. 2,472,684. 814,380. 259,000. 4,536,995. 12,800,649. 3,200,162. 1,920,097.  |
| THWORKS  RAMWATER CONSTRUCTION  EMENT WORKS BING CONSTRUCTION  IT COAT SEALING  TPATH AND BERM CONSTRUCTION  D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TINGENCY)  FESSIONAL FEES  TOTAL \$ (EXCL GST TOTAL \$      | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 644,875. 1,340,625. 2,082,970. 589,120. 2,472,684. 814,380. 259,000. 4,536,995 12,800,649. 3,200,162. 1,920,097.   |
| RMWATER CONSTRUCTION  EMENT WORKS BING CONSTRUCTION  IT COAT SEALING  TPATH AND BERM CONSTRUCTION  D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TOTAL \$     | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 1,340,625<br>2,082,970<br>589,120<br>2,472,684<br>814,380<br>259,000<br>4,536,995<br>12,800,649<br>3,200,162<br>1,920,097  |
| EMENT WORKS BING CONSTRUCTION T COAT SEALING TPATH AND BERM CONSTRUCTION D MARKING, SIGNS AND STREETLIGHTS ITIES JECT SPECIFIC ITEMS SUB TOTAL \$ (EXCL GST T   | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 2,082,970. 589,120. 2,472,684. 814,380. 259,000. 4,536,995 12,800,649. 3,200,162.  |
| BING CONSTRUCTION T COAT SEALING TPATH AND BERM CONSTRUCTION D MARKING, SIGNS AND STREETLIGHTS ITIES JECT SPECIFIC ITEMS SUB TOTAL \$ (EXCL GST) TINGENCY FESSIONAL FEES TOTAL \$ (EXCL GST)   | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 589,120. 2,472,684. 814,380. 259,000. 4,536,995 12,800,649. 3,200,162.   |
| T COAT SEALING TPATH AND BERM CONSTRUCTION  D MARKING, SIGNS AND STREETLIGHTS ITIES JECT SPECIFIC ITEMS SUB TOTAL \$ (EXCL GST) TINGENCY FESSIONAL FEES TOTAL \$ (EXCL GST)  | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 2,472,684.<br>814,380.<br>259,000.<br>4,536,995.<br>-<br>12,800,649.<br>3,200,162.<br>1,920,097.   |
| TPATH AND BERM CONSTRUCTION  D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TINGENCY)  FESSIONAL FEES  TOTAL \$ (EXCL GST TOTAL \$ (EXCL G  | \$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$  | 814,380.<br>259,000.<br>4,536,995.<br>-<br>12,800,649.<br>3,200,162.<br>1,920,097.   |
| D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TINGENCY)  FESSIONAL FEES  TOTAL \$ (EXCL GST TOTAL \$ | \$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$  | 814,380.<br>259,000.<br>4,536,995.<br>-<br>12,800,649.<br>3,200,162.<br>1,920,097.   |
| D MARKING, SIGNS AND STREETLIGHTS  ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TINGENCY)  FESSIONAL FEES  TOTAL \$ (EXCL GST TOTAL \$ | \$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$  | 259,000.<br>4,536,995.<br>-<br>12,800,649.<br>3,200,162.<br>1,920,097.   |
| ITIES  JECT SPECIFIC ITEMS  SUB TOTAL \$ (EXCL GST TINGENCY)  FESSIONAL FEES  TOTAL \$ (EXCL GST DESCRIPTION OF COSTING APPROACH)  | \$<br>\$<br>0 \$<br>\$<br>\$  | 4,536,995.<br>12,800,649.<br>3,200,162.<br>1,920,097.  |
| SUB TOTAL \$ (EXCL GST TINGENCY FESSIONAL FEES  TOTAL \$ (EXCL GST  DESCRIPTION OF COSTING APPROACH  | \$<br>) \$<br>\$<br>\$  | 12,800,649.<br>3,200,162.<br>1,920,097.  |
| SUB TOTAL \$ (EXCL GST TINGENCY FESSIONAL FEES  TOTAL \$ (EXCL GST)  DESCRIPTION OF COSTING APPROACH   | \$<br>\$<br>\$  | 3,200,162<br>1,920,097   |
| TINGENCY FESSIONAL FEES  TOTAL \$ (EXCL GST)  DESCRIPTION OF COSTING APPROACH  | \$  | 3,200,162.<br>1,920,097.   |
| FESSIONAL FEES  TOTAL \$ (EXCL GST)  DESCRIPTION OF COSTING APPROACH   | \$  | 1,920,097.   |
| TOTAL \$ (EXCL GST)  DESCRIPTION OF COSTING APPROACH   | -   |  |
| DESCRIPTION OF COSTING APPROACH  | \$  | 17,920,908.0   |
|  |   |  |
|  |   |  |
| ral item includes: Establishment/Disestablishment, Traffic Management Plan, On Site Traffic Control, Survey Control and Setting Out, and As-builts   |   |  |
|  |   |  |
| works item based on flat land and no clearing required   |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| path Construction" based on cross section provided   |   |  |
| Construction" based on cross section provided  |   |  |
| ng works have not been allowed for   |   |  |
| Marking based on cross section provided  |   |  |
| works based on typical signage requirements  |   |  |
| t lighting works based on typical lighting requirements  |   |  |
| es: Telecom - 3 ducts + cable have been allowed for, Laterals have not been allowed for  |   |  |
| es: Power - 3 ducts + cable have been allowed for Laterals have not been allowed for   |   |  |
|  | _   |  |
|  |   |  |
|  |   |  |
| CONTROL OF  |   |  |
|  |   |  |
| 27- 37- 100-100-100-100-100-100-100-100-100-10   |   |  |
|  |   |  |
| graphical survey costs have not been allowed for.  |   |  |
|  |   |  |
|  |   |  |
| The state of the s   |   |  |
|  |   |  |
| Furniture has not been allowed for   |   |  |
| optic has not been allowed for   |   |  |
| r transformers have not been allowed fror  |   |  |
|  |   |  |
| nv pp ( nn N N N N N N N N N N N N N N N N N   | water Construction item based on 300mm SW main running length of road with sumps / manholes every 90m ment Works' based on 250mm subbase & 150mm basecourse and 20% allowance for stabilisation & 30% allowance for undercutting ng Construction' based on non mountable kerb Coat Sealing' based on 40mm thick asphalt concrete surfacing ath Construction' based on cross section provided Construction' based on cross section provided g works have not been allowed for Marking based on typical signage requirements lighting works based on typical lighting requirements s: Telecom - 3 ducts + cable have been allowed for. Laterals have not been allowed for s: Power - 3 ducts + cable have been allowed for. Laterals have not been allowed for s: 2x spare ducts have been allowed for s: 150mm gas main only has been allowed for s: 150mm watermain and 25mm laterals have been allowed for s: 150mm swerr main and 100mm laterals have been allowed for s: 150mm swerr main and 100mm laterals have been allowed for s: 150mm swerr main and 100mm laterals have been allowed for s: 150mm swerr main and 150mm laterals have been allowed for seaphical survey costs have not been allowed for. sephical survey costs have not been allowed for. sephical array and testing costs have not been allowed for. sephical array and areas based on cross section and plan provided this have not been allowed for Furniture has not been allowed for furniture has not been allowed for | water Construction item based on 300mm SW main running length of road with sumps / manholes every 90m ment Works' based on 250mm subbase & 150mm basecourse and 20% allowance for stabilisation & 30% allowance for undercutting ng Construction' based on non mountable kerb Coat Sealing' based on 40mm thick asphalt concrete surfacing alth Construction' based on cross section provided Construction' based on cross section provided gg works have not been allowed for Marking based on the provided works based on typical signage requirements lighting works based on typical signage requirements signating and under the cable have been allowed for Laterals have not been allowed for signature of the stable have been allowed for Laterals have not been allowed for signature of the stable have been allowed for the stable have been allowed for signature of the stable have been allowed for the stable have been allowed for signature of the stable have been allowed for the stable have not been allowed for the stable has not been allowed for transformers have not been allowe |

|  | DETAILED SCHEDULE OF P                                 | RICES |   |    |                |    |              |
|--|--|-------|---|----|----------------|----|--------------|
| Project Number :                                       | 12006.3  |       |   |    |                |    |              |
| Project Description:                                   | Christchurh Airport Network Valuation - Collector Road |       |   | 1  |                |    |              |
| Drawing Reference Number :                             | 11223  |       |   |    | D              |    |              |
| Date Prepared :  | 26th August 2013                                       |       |   |    |                |    |              |
| Prepared By:   | JO   |       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |    |                |    |              |
| Checked By:  | RG   | 11607 | OTM                                     | -  | DATE           |    | TOTAL        |
| ITEM   | DESCRIPTION  | UNIT  | QTY                                     | _  | RATE           | -  | TOTAL        |
| 1 PRELIMINARY AND GENE                                 |  | L.S   | 1                                       | \$ | 20,000.00      | s  | 20,000.00    |
| 1.1 Establishment and Disestabl                        | nishment   | L.S   | 1                                       | \$ | 1,000.00       | S  | 1,000.00     |
| 1.2 Traffic Management Plan                            |  | L.S   | 1                                       | 3  | 1,000.00       | S  | - 1,000.00   |
| 1.3 Site Safety Plan  1.4 Environmental Plan           |  | L.S   | 1                                       |    |                | S  |              |
| 1.5 On Site Traffic Control                            |  | L.S   | 1                                       | s  | 30,000.00      | S  | 30,000.00    |
| 1.6 Survey Control and Setting (                       | Out  | L.S   | 1                                       | \$ | 5,000.00       | \$ | 5,000.00     |
| 1.7 Quality Control Testing by C                       |  | L.S   | 1                                       |    |                | \$ |              |
| 1.8 Supply as built information                        |  | L.S   | 1                                       | \$ | 4,000.00       | \$ | 4,000.00     |
| 2 EARTHWORKS   |  |       |   |    |                |    |              |
| 2.1 Topsoiling stripping 150mm                         | thick  | cu.m  | 12150                                   | \$ | 10.00          | _  | 121,500.00   |
| 2.2 Cut to waste carraigeway                           |  | cu.m  | 18726                                   | -  | 25.00          | \$ | 468,150.00   |
| 2.3 Cut to waste footpaths                             |  | cu.m  | 2209                                    | \$ | 25.00          | \$ | 55,225.00    |
| 3 STORMWATER CONSTRU                                   |  |       |   |    |                |    |              |
| 3.1 Supply and construct 600mn                         | m dia. sump  | each  | 82                                      |    | 1,200.00       | \$ | 98,400.00    |
| 3.2 Supply and construct 1050m                         |  | each  | 41                                      | -  | 3,000.00       | \$ | 123,000.00   |
|  | dia. uPVC domestic stormwater conenctions              | m     | 1012.5                                  |    | 90.00          | \$ | 91,125.00    |
| 3.4 Supply and construct 225mn                         |  | m     | 600                                     | -  | 180.00         | \$ | 108,000.00   |
| 3.5 Supply and construct 300mn                         |  | m     | 3680                                    |    | 200.00         | \$ | 736,000.00   |
| 3.6 Supply and construct subsoi                        | il drainage  | m     | 7364                                    | \$ | 25.00          | \$ | 184,100.00   |
| 4 PAVEMENT WORKS                                       |  |       | 4020                                    |    | 20.00          | s  | 145,140.00   |
| 4.1 Localised undercutting                             | 2.11   | cu,m  | 4838                                    |    | 30.00          | \$ | 217,710.00   |
| 4.2 Supply and place make up n                         |  | cu.m  | 4838                                    |    | 45.00<br>25.00 | \$ | 268,750.00   |
|  | cement stabilisation 250mm thick                       | sq.m  | 10750<br>43004                          | -  | 15.00          | S  | 645,060.00   |
| 4.4 Sub-base construction with A                       |  | sq.m  | 53754                                   |    | 15.00          | S  | 806,310.00   |
| 4.5 Supply and construct baseco                        |  | sq.m  | 33734                                   | 9  | 15.00          | ٦  | 000,510.00   |
|  |  | lm    | 7364                                    | c  | 80.00          | \$ | 589,120.00   |
| 5.1 Construct non mountable co<br>6 FIRST COAT SEALING | niciele verb a channel                                 |       | 7301                                    | ,  | 00.00          | ,  | 000,120.00   |
| 6.1 Preparation of surface                             |  | sq.m  | 53754                                   | s  | 3.00           | s  | 161,262.00   |
| 6.2 Supply and place grade 5 se                        | ealing chin  | sq.m  | 53754                                   | -  | 3.00           | s  | 161,262.00   |
| 6.3 Asphaltic Concrete paving 5                        |  | sq.m  | 53754                                   |    | 40.00          | \$ | 2,150,160.00 |
| 7 FOOTPATH AND BERM CO                                 |  |       |   | -  |                |    |              |
|  | / vehicle crossing 100mm thick                         | sq.m  | 9941                                    | s  | 60.00          | \$ | 596,460.00   |
|  | te vehicle crossing 150mm thick                        | sq.m  | 1104                                    |    | 80.00          | \$ | 88,320.00    |
| 7.3 Construct grass berm areas                         |  | sq.m  | 16200                                   | \$ | 8.00           | \$ | 129,600.00   |
| 8 ROAD MARKING, SIGNS A                                |  |       |   |    |                |    |              |
| 8.1 Install Roadmarking & RRPM                         |  | L.S   | 1                                       | \$ | 25,000.00      | \$ | 25,000.00    |
| 8.2 Supply & Install new signs                         |  | each  | 30                                      | \$ | 400.00         | \$ | 12,000.00    |
| 8.3 Supply and Install new street                      | tlights  | each  | 74                                      | \$ | 3,000.00       | \$ | 222,000.00   |
| 9 UTILITIES  |  |       |   |    |                |    |              |
| 9.1 Offset/Protect Survey Marks                        |  | each  | 10                                      | \$ | 2,000.00       | \$ | 20,000.00    |
| 9.2 New 150mm SN16 uPVC se                             | ewer main  | m     | 3681                                    | \$ | 100.00         | \$ | 368,100.00   |
| 9.3 New 150mm pvc water main                           | 1  | m     | 3681                                    | \$ | 250.00         | \$ | 920,250.00   |
| 9.4 New 1050mm dia sewer mar                           | nhole  | each  | 40                                      |    | 3000.00        | \$ | 120,000.00   |
| 9.5 New 100mm SN16 uPVC se                             | ewer laterals  | m     | 2025                                    |    | 75.00          | \$ | 151,875.00   |
| 9.6 New 25mm PE water laterals                         | s  | m     | 2025                                    |    | 15.00          | \$ | 30,375.00    |
| 9.7 New telecom cable & ducting                        | 9  | m     | 11043                                   |    | 65.00          |    | 717,795.00   |
| 9,8 New power cable & ducting                          |  | m     | 11043                                   |    | 100.00         | \$ | 1,104,300.00 |
| 9.9 New spare ducting                                  |  | m     | 7362                                    |    | 50.00          |    | 368,100.00   |
| 9.10 New 100mm gas main                                |  | m     | 3681                                    |    | 200.00         | \$ | 736,200.00   |
| 10 PROJECT SPECIFIC ITEMS                              |  |       |   |    |                | _  |              |
| 10.1 To be added as required                           |  |       |   |    |                | \$ | •            |
| 10.2 To be added as required                           |  |       |   | _  |                | \$ | •            |
| 10.3 To be added as required                           |  |       |   |    |                | \$ | •            |
| 10.4 To be added as required                           |  |       |   |    |                | \$ | •            |
| 10.5 To be added as required                           |  |       |   |    |                | \$ |              |

|      |                   | SUB TOTAL \$ (EXCL GST) \$  | 12,800,649.00 |
|------|-------------------|-----------------------------|---------------|
| 11   | CONTINGENCY       |                             |               |
| 11.1 | Contingency       | L.S 25% \$ 12,800,649.00 \$ | 3,200,162.25  |
| 12   | PROFESSIONAL FEES |                             |               |
| 12.1 | Fees              | L.S 15% \$ 12,800,649.00 \$ | 1,920,097.35  |
|      |                   |                             |               |
|      |                   | TOTAL \$ (EXCL GST) \$      | 17,920,908.60 |

|        |                               | SCHEDULE OF PRICES - SUMMARY SHEET   |    |              |
|--------|-------------------------------|--|----|--------------|
| Projec | t Number :                    | 12006.3  |    |              |
| Projec | t Description:                | Christchurch Airport Road Network Valuation - Roundabouts  |    |              |
| Drawii | ng Reference Number :         | 11223<br>26 August 2013  | 9  |              |
| Date F | Prepared:                     | 26 August 2013   |    |              |
| Prepa  | red By:                       | JO   |    |              |
| Check  | ed By:                        | RG ·   |    |              |
| ITEM   |                               | DESCRIPTION  |    | TOTAL        |
| 1      | PRELIMINARY AND GENER         | RAL  | \$ | 86,000.0     |
| 2      | EARTHWORKS                    |  | \$ | 35,950.0     |
| 3      | STORMWATER CONSTRU            | CTION  | \$ | 53,025.0     |
| 4      | PAVEMENT WORKS                |  | \$ | 99,975.0     |
| 5      | KERBING CONSTRUCTION          |  | \$ | 50,300.00    |
| 6      | FIRST COAT SEALING            |  | \$ | 122,268.00   |
| 7      | FOOTPATH AND BERM CO          | NSTRUCTION   | \$ | 36,504.00    |
| 8      | ROAD MARKING, SIGNS AI        | ND STREETLIGHTS  | \$ | 54,000.0     |
| 9      | UTILITIES                     |  | \$ | 93,980.0     |
| 10     | PROJECT SPECIFIC ITEMS        |  | \$ | 4-           |
|        |                               | SUB TOTAL \$ (EXCL GST)  | \$ | 632,002.00   |
| 11     | CONTINGENCY                   |  | \$ | 158,000.50   |
| 12     | PROFESSIONAL FEES             |  | \$ | 94,800.3     |
|        |                               | TOTAL \$ (EXCL GST)  | \$ | 884,802.80   |
|        |                               | TOTAL \$ (EXCL GST) FOR 6 NewROUNDABOUTS   | \$ | 5,308,816.80 |
|        |                               | DESCRIPTION OF COSTING APPROACH  |    |              |
|        | General item includes: Estab  | lishment/Disestablishment, Traffic Management Plan, On Site Traffic Control, Survey Control and Setting Out, and As-builts |    |              |
|        | Earthworks item based on fla  | t land and no clearing required  |    |              |
|        | Stormwater Construction iten  | n based on typical SW reticulation for roundabouts   |    |              |
|        | "Pavement Works" based on     | 250mm subbase and 150mm basecourse plus possible undercut of 30% total area and metal replacement                          |    |              |
|        | "Kerbing Construction" based  | on non mountable kerbs to approach to roundabout and mountable splitter islands  |    |              |
|        | "First Coat Sealing" based or | 40mm thick asphalt concrete surfacing  |    |              |
|        | "Footpath Construction" base  | d on 1.5m wide 100mm thick concrete footpath both sides of road / roundabout   |    |              |
|        | Berm Construction" based or   | formation of grass berms, topsoiling and regrassing  |    |              |
|        | Fencing works have not been   | allowed for  |    |              |
|        | Road Marking based on typic   | al roadmarking for roundabouts   |    |              |
|        | Signs works based on typical  | signage for roundabouts  |    |              |
|        | Street lighting works based o | n typical requirement for roundabouts  |    |              |

Utilities: The installation costs for potential utilities and underground services within the extent of works, have been allowed for.

A contingency has been allowed for.

Professional Fees have been allowed for.

Consents have not been allowed for

Street furniture has not been allowed for

Topographical survey costs have not been allowed for.

Pavement sampling and testing costs have not been allowed for.

|            | DETAILED SCHEDULE OF PRICES  |               |            |  |          |            |
|------------|--|---------------|------------|--|----------|------------|
| Project No | ımber: 12006.3   |               |            |  |          |            |
| Project De | escription: Christchurch Airport Indicative Road Network - Roundabouts   |               | Blog       |  |          |            |
| Drawing F  | teference Number: 11223  |               |            | D  | 5        |            |
| Date Prep  | ared: 26th August 2013   |               | -          |  |          |            |
| Prepared   | By: JO   |               |            |  | Oranie - |            |
| Checked I  | By: RG   |               |            |  |          |            |
| ITEM       | DESCRIPTION  | UNIT          | QTY        | RATE   |          | TOTAL      |
| 1          | PRELIMINARY AND GENERAL  |               |            |  |          |            |
| 1.1        | Establishment and Disestablishment   | L.S           | 1          | \$ 40,000.00   | \$       | 40,000.00  |
| 1.2        | Traffic Management Plan  | L.S           | 1          | \$ 10,000.00   | \$       | 10,000.00  |
| 1.3        | On Site Traffic Control  | L.S           |            | \$ 30,000.00   | \$       | 30,000.00  |
| 1.4        | Survey Control and Setting Out   | L.S           | 1          | \$ 3,000.00  |          | 3,000.00   |
| 1.5        | Supply as built information  | L.S           |            | \$ 3,000.00  | s        | 3,000.00   |
| 2          | EARTHWORKS   |               |            | *  |          |            |
| 2.1        | Topsoiling stripping   | cu.m          | 400        | \$ 10.00   | \$       | 4,000.00   |
| 2.2        | Cut to waste carraigeway   | cu.m          | 1170       |  | -        | 29,250.00  |
| 2.3        | Cut to waste footpaths   | cu.m          | 108        | \$ 25.00   | \$       | 2,700.00   |
| 3          | STORMWATER CONSTRUCTION  |               |            |  |          |            |
| 3.1        | Supply and construct 600mm dia. sump   | each          | 8          | \$ 1,200.00  | s        | 9,600.00   |
| 3.2        | Supply and construct 1050mm dia, stormwater manhole  | each          |            | \$ 3,000.00  | _        | 6,000.00   |
| 3.3        | Supply and construct 225mm dia. stormwater pipe  | -             | 70         | A. Control of the con |          | 12,600.00  |
| 0.0        | 23. • Control of the  | m             |            |  | -        | 17,200.00  |
| 3.4        | Supply and construct 300mm dia. stormwater pipe  | m             |            | \$ 200.00  |          |            |
| 3.5        | Supply and construct subsoil drainage  | m             | 305        | \$ 25.00   | 12       | 7,625.00   |
| 4          | PAVEMENT WORKS   | -             |            |  |          |            |
| 4.1        | Localised undercutting   | cu.m          | 245        |  | -        | 7,350.00   |
| 4.2        | Supply and place make up metal   | cu.m          | 245        | \$ 45.00   | \$       | 11,025.00  |
| 4.3        | Sub-base construction with AP65 250mm thick  | sq.m          | 2720       | \$ 15.00   | \$       | 40,800.00  |
| 4.4        | Supply and construct basecourse 150mm thick  | sq.m          | 2720       | \$ 15.00   | \$       | 40,800.00  |
| 5          | KERBING CONSTRUCTION   |               |            |  |          |            |
| 5.1        | Construct mountable concrete nib   | m             | 210        | \$ 70.00   | \$       | 14,700.00  |
| 5.2        | Construct non mountable concrete kerb & channel  | m             | 305        | \$ 80.00   | \$       | 24,400.00  |
| 5.3        | Construct reinforced 150mm thick concrete apron  | sq.m          | 140        |  | -        | 11,200.00  |
| 6          | FIRST COAT SEALING   | 1-1           |            | *  |          |            |
| 6.1        | Preparation of surface   | sq.m          | 2658       | \$ 3.00  | s        | 7,974.00   |
| 6.2        | Supply and place grade 5 membrane seal   | -             | 2658       |  |          | 7,974.00   |
|            |  | sq.m          |            |  | -        | 106.320.00 |
| 6.3        | Asphaltic Concrete paving 40mm thick   | sq.m          | 2658       | \$ 40.00   | \$       | 100,320.00 |
| 7          | FOOTPATH AND BERM CONSTRUCTION   | T T           |            |  |          | 07.000.00  |
| 7.1        | Construct concrete footpath / vehicle crossing 100mm thick   | sq.m          | 540        |  | \$       | 27,000.00  |
| 7.2        | Construct grass berm areas   | sq.m          | 1188       | \$ 8.00  | \$       | 9,504.00   |
| 8          | ROAD MARKING, SIGNS AND STREETLIGHTS   |               |            |  |          |            |
| 8.1        | Install Roadmarking & RRPM's   | L.S           | 1          | \$ 10,000.00   | \$       | 10,000.00  |
| 8.2        | Supply & Install new signs   | each          | 20         | \$ 400.00  | \$       | 8,000.00   |
| 8.3        | Supply and Install new streetlights  | each          | 12         | \$ 3,000.00  | \$       | 36,000.00  |
| 9          | UTILITIES  |               |            |  |          |            |
| 9.1        | Offset/Protect Survey Marks  | each          | 2          | \$ 2,000.00  | \$       | 4,000.00   |
| 9.2        | New 150mm SN16 uPVC sewer main   | m             | 86         |  | _        | 8,600.00   |
| 9.3        | New 1050mm dia sewer manhole   | each          |            | \$ 3,000.00  |          | 3,000.00   |
| 9.4        | New 100mm uPVC sewer laterals  | m             | 30         |  | \$       | 2,250.00   |
| 9.5        | New 25mm PE water laterals   | m             | 30         |  | s        | 450.00     |
| 9.6        | New 150mm dia PVC water main   | m             |            | \$ 250.00  | \$       | 21,500.00  |
|            | The state of the s |               |            |  |          | 17,200.00  |
| 9.7        | New power cable & ducting  | m             | 172        | 100.00   |          |            |
| 9.8        | New telecom cable & ducting  | m             | 172        | 65.00  |          | 11,180.00  |
| 9.9        | New spare ducting  | m             | 172        | 50.00  |          | 8,600.00   |
| 9.10       | New gas main   | m             | 86         | 200.00   | \$       | 17,200.00  |
| 10         | PROJECT SPECIFIC ITEMS   | 1             |            |  |          |            |
| 10.1       | To be added as required  | -             |            |  | \$       | -          |
| 10.2       | To be added as required  |               |            |  | \$       |            |
| 10.3       | To be added as required  |               |            |  | \$       | •          |
| 10.4       | To be added as required  |               |            |  | \$       | •          |
| 10.5       | To be added as required  | $\perp \perp$ | SIID TOTAL | L \$ (EXCL GST)  | \$       | 632,002,00 |
| 44         | CONTINGENCY  |               | SUD TUTAL  | L \$ (EAGL GOI)  | 3        | 632,002.00 |
| 11         | 2000 N. 100 N. 1 | lie I         | 25%        | \$ 632,002.00  | e        | 158,000.50 |
| 11.1       | Contingency PROFESSIONAL FEES  | L.S           | 25%        | y 032,002.00   | 3        | 130,000.30 |
| 12.1       | Fees   | L.S           | 15%        | \$ 632,002.00  | s        | 94,800.30  |
| 12.1       | 1 444  | 10            | 10 /0      | + 002,002.00   | Ÿ        | 05,000,00  |

TOTAL \$ (EXCL GST) \$

884,802.80

|                            | SCHEDULE OF PRICES - SUMMARY SHE                       | ET |
|----------------------------|--|----|
| Project Number :           | 12006.3  |    |
| Project Description:       | Christchurh Airport Network Valuation - Collector Road |    |
| Drawing Reference Number : | 11223  |    |
| Date Prepared :            | 26th August 2013                                       |    |
| Prepared By:               | JO   |    |
| Checked By:                | RG   |    |

Utility pits / manholes(Power / Telecom etc) have not been allowed for Traffic signals have not been allowed for



| Proje  | ct Description:                  | Christchurh Airport Network Valuation - Collector Road  |    |               |
|--------|----------------------------------|---|----|---------------|
| Drawi  | ng Reference Number :            | 11223   |    |               |
| Date I | Prepared :                       | 26th August 2013  |    |               |
| Prepa  | red By:                          | JO  |    |               |
| Check  | red By:                          | RG  |    |               |
| ITEM   |                                  | DESCRIPTION   |    | TOTAL         |
| 1      | PRELIMINARY AND GENER            | IAL   | s  | 60,000.00     |
| 2      | EARTHWORKS                       |   | \$ | 644,875.00    |
| 3      | STORMWATER CONSTRUC              | CTION   | s  | 1,340,625.00  |
| 4      | PAVEMENT WORKS                   |   | \$ | 2,082,970.00  |
| 5      | KERBING CONSTRUCTION             |   | \$ | 589,120.00    |
| 6      | FIRST COAT SEALING               |   | \$ | 2,472,684.00  |
| 7      | FOOTPATH AND BERM COI            | NICTOLICTION  | _  |               |
| _      |                                  |   | \$ | 814,380.00    |
| 8      | ROAD MARKING, SIGNS AN           | ID STREETLIGHTS   | \$ | 259,000.00    |
| 9      | UTILITIES                        |   | \$ | 4,536,995.00  |
| 10     | PROJECT SPECIFIC ITEMS           |   | \$ |               |
|        |                                  | SUB TOTAL \$ (EXCL GST)   | \$ | 12,800,649.00 |
| 11     | CONTINGENCY                      |   | \$ | 3,200,162.25  |
| 12     | PROFESSIONAL FEES                |   | \$ | 1,920,097.35  |
|        |                                  | TOTAL \$ (EXCL GST)   | \$ | 17,920,908.60 |
|        |                                  |   |    |               |
|        |                                  | DESCRIPTION OF COSTING APPROACH   |    |               |
|        | General item includes: Establi   | ishment/Disestablishment, Traffic Management Plan, On Site Traffic Control, Survey Control and Setting Out, and As-builts |    |               |
|        | Earthworks item based on flat    | t land and no clearing required   |    |               |
|        | Stormwater Construction item     | based on 300mm SW main running length of road with sumps / manholes every 90m   |    |               |
|        |                                  | 250mm subbase & 150mm basecourse and 20% allowance for stabilisation & 30% allowance for undercutting                     |    |               |
|        | "Kerbing Construction" based     | •   |    |               |
|        |                                  | 40mm thick asphalt concrete surfacing   |    |               |
| _      | "Footpath Construction" based    |   |    |               |
|        | Berm Construction" based on      |   |    |               |
|        |                                  |   |    |               |
|        | Fencing works have not been      |   |    |               |
|        | Road Marking based on cross      |   |    |               |
|        | Signs works based on typical     |   |    |               |
|        | Street lighting works based on   |   |    |               |
|        | Utilities: Telecom - 3 ducts +   | cable have been allowed for. Laterals have not been allowed for   |    |               |
|        | Utilities: Power - 3 ducts + cab | ole have been allowed for. Laterals have not been allowed for   |    |               |
|        | Utilities: 100mm gas main only   | y has been allowed for  |    |               |
|        | Utilities: 2x spare ducts have t | peen allowed for  |    |               |
|        | Utilities: 150mm watermain an    | d 25mm laterals have been allowed for   |    |               |
|        | Utilities: 150mm sewer main a    | nd 100mm laterals have been allowed for   |    |               |
|        | A contingency has been allow     | ed for.   |    |               |
|        | Water valves & meters have n     | ot been allowed for   |    |               |
|        | Topographical survey costs ha    | sve not been allowed for.   |    |               |
|        | Pavement sampling and testin     | g costs have not been allowed for.  |    |               |
|        | Professional Fees have been a    | allowed for.  |    |               |
|        | All measurments and areas ba     | ased on cross section and plan provided   |    |               |
|        | Consents have not been allow     | ed for  |    |               |
|        | Street Furniture has not been    | allowed for   |    |               |
|        | Fibre optic has not been allow   | ed for  |    |               |
|        | Power transformers have not be   | peen allowed from   |    |               |
|        | Hillis alta I manhala (Danna I   | Tologom etal hour not bean allowed for  |    |               |

|          |   | DETAILED SCHEDU  | LE OF PRICES |             |          |           |    |                       |
|----------|---|--|--------------|-------------|----------|-----------|----|-----------------------|
| Projec   | t Number :  | 12006.3  |              |             |          |           |    |                       |
| Projec   | t Description:  | Christchurh Airport Network Valuation - Collector  | Road         | la la       |          |           |    | 1                     |
| Drawi    | ng Reference Number :                                   | 11223  |              |             |          | D         |    |                       |
| Date F   | repared :   | 26th August 2013   |              |             |          |           |    |                       |
| Prepa    | red By:   | JO   |              |             |          |           |    |                       |
| Name and | ed By:  | RG   |              |             |          |           |    |                       |
| ITEM     |   | DESCRIPTION  | UNIT         | QTY         | =        | RATE      | _  | TOTAL                 |
| 1        | PRELIMINARY AND GENERA                                  |  | li o         |             |          | 00.000.00 |    | 20,000,00             |
| 1.1      | Establishment and Disestablis                           | hment  | L.S          | 1           | \$       | 1,000.00  | \$ | 20,000.00<br>1,000.00 |
| 1.2      | Traffic Management Plan                                 |  | L.S<br>L.S   | 1           | 2        | 1,000.00  | \$ | 1,000.00              |
| 1.3      | Site Safety Plan  |  | L.S          | 1           |          |           | S  |                       |
| 1.4      | Environmental Plan On Site Traffic Control              |  | L.S          | 1           | \$       | 30,000.00 | \$ | 30,000.00             |
| 1.5      | Survey Control and Setting Ou                           | ıt   | L.S          | 1           | \$       | 5,000.00  | \$ | 5,000.00              |
| 1.7      | Quality Control Testing by Cor                          | The same of the sa | L.S          | 1           | <u> </u> | 0,000.00  | \$ | -                     |
| 1.8      | Supply as built information                             |  | L.S          | 1           | \$       | 4,000.00  | \$ | 4,000.00              |
| 2        | EARTHWORKS  |  |              |             |          |           |    |                       |
| 2.1      | Topsoiling stripping 150mm th                           | ick  | cu.m         | 12150       | \$       | 10.00     | \$ | 121,500.00            |
| 2.2      | Cut to waste carraigeway                                |  | cu.m         | 18726       |          | 25.00     | \$ | 468,150.00            |
| 2.3      | Cut to waste footpaths                                  |  | cu.m         | 2209        | \$       | 25.00     | \$ | 55,225.00             |
| 3        | STORMWATER CONSTRUC                                     |  |              |             |          |           |    | 00.000.00             |
| 3.1      | Supply and construct 600mm                              |  | each         |             | -        | 1,200.00  | \$ | 98,400.00             |
| 3.2      | Supply and construct 1050mm                             |  | each         | 41          | \$       | 3,000.00  | \$ | 123,000.00            |
| 3.3      |   | a. uPVC domestic stormwater conenctions  | m            | 1012.5      | \$       | 90.00     | \$ | 91,125.00             |
| 3.4      | Supply and construct 225mm                              |  | m            | 600<br>3680 | \$       | 180.00    | \$ | 736,000.00            |
| 3.5      | Supply and construct 300mm                              |  | m<br>m       | 7364        | S        | 25.00     | \$ | 184,100.00            |
| 3.6      | Supply and construct subsoil d PAVEMENT WORKS           | irainage   |              | 7304        | ş        | 23.00     | 3  | 104,100.00            |
| 4.1      | Localised undercutting                                  |  | cu.m         | 4838        | \$       | 30.00     | s  | 145,140.00            |
| 4.1      | Supply and place make up me                             | tal  | cu.m         | 4838        | \$       | 45.00     | \$ | 217,710.00            |
| 4.3      |   | ment stabilisation 250mm thick   | sq.m         | 10750       |          | 25.00     | \$ | 268,750.00            |
| 4.4      | Sub-base construction with AF                           |  | sq.m         | 43004       | \$       | 15.00     | \$ | 645,060.00            |
| 4.5      | Supply and construct basecou                            |  | sq.m         | 53754       | \$       | 15.00     | \$ | 806,310.00            |
| 5        | KERBING CONSTRUCTION                                    |  |              |             |          |           |    |                       |
| 5.1      | Construct non mountable cond                            | rete kerb & channel  | m            | 7364        | \$       | 80.00     | \$ | 589,120.00            |
| 6        | FIRST COAT SEALING                                      |  |              |             |          |           |    |                       |
| 6.1      | Preparation of surface                                  |  | sq.m         | 53754       | \$       | 3.00      | \$ | 161,262.00            |
| 6.2      | Supply and place grade 5 seal                           | ing chip   | sq.m         | 53754       | \$       | 3.00      | \$ | 161,262.00            |
| 6.3      | Asphaltic Concrete paving 50n                           | nm thick   | sq.m         | 53754       | \$       | 40.00     | \$ | 2,150,160.00          |
| 7        | FOOTPATH AND BERM CON                                   | ISTRUCTION   |              |             |          |           |    |                       |
| 7.1      | Construct concrete footpath / v                         | vehicle crossing 100mm thick   | sq.m         | 9941        | \$       | 60.00     |    | 596,460.00            |
| 7.2      | Construct reinforced concrete                           | vehicle crossing 150mm thick   | sq.m         | 1104        | -        | 80.00     | \$ | 88,320.00             |
| 7.3      | Construct grass berm areas                              |  | sq.m         | 16200       | \$       | 8.00      | \$ | 129,600.00            |
| 8        | ROAD MARKING, SIGNS AN                                  | A STATE OF THE STA |              |             |          |           |    |                       |
| 8.1      | Install Roadmarking & RRPM's                            |  | L.S          |             | \$       | 25,000.00 | \$ | 25,000.00             |
| 8.2      | Supply & Install new signs                              | -Sc  | each         | 30          |          | 400.00    | \$ | 12,000.00             |
| 8.3      | Supply and Install new streetlig                        | gnts   | each         | 74          | ٥        | 3,000.00  | \$ | 222,000.00            |
| 9        | Officet/Destant Suprey Marks                            |  | land         | 10          | c        | 2,000.00  | s  | 20,000.00             |
| 9.1      | Offset/Protect Survey Marks<br>New 150mm SN16 uPVC sewe | or main  | each<br>m    | 3681        | \$       | 100.00    | \$ | 368,100.00            |
| 9.2      | New 150mm pvc water main                                | or mon   | m            | 3681        | \$       | 250.00    | \$ | 920,250.00            |
| 9.4      | New 1050mm dia sewer manh                               | ole  | each         | 40          | _        | 3000.00   |    | 120,000.00            |
| 9.5      | New 100mm SN16 uPVC sewe                                |  | m            | 2025        |          | 75.00     |    | 151,875.00            |
| 9.6      | New 25mm PE water laterals                              |  | m            | 2025        |          | 15.00     | -  | 30,375.00             |
| 9.7      | New telecom cable & ducting                             |  | m            | 11043       |          | 65.00     | \$ | 717,795.00            |
| 9.8      | New power cable & ducting                               |  | m            | 11043       |          | 100.00    | \$ | 1,104,300.00          |
| 9.9      | New spare ducting                                       |  | m            | 7362        |          | 50.00     | \$ | 368,100.00            |
| 9.10     | New 100mm gas main                                      |  | m            | 3681        |          | 200.00    | \$ | 736,200.00            |
| 10       | PROJECT SPECIFIC ITEMS                                  |  |              |             |          |           |    |                       |
| 10.1     | To be added as required                                 |  |              |             |          |           | \$ | 14                    |
| 10.2     | To be added as required                                 |  |              |             |          |           | \$ | 74                    |
| 10.3     | To be added as required                                 |  |              |             |          |           | \$ |                       |
| 10.4     | To be added as required                                 |  |              |             |          |           | \$ | •                     |
| 10.5     | To be added as required                                 |  |              |             |          |           | \$ |                       |

|      |                   | SUB TOTAL \$ (EXCL GST) \$  | 12,800,649.00 |
|------|-------------------|-----------------------------|---------------|
| 11   | CONTINGENCY       |                             |               |
| 11.1 | Contingency       | L.S 25% \$ 12,800,649.00 \$ | 3,200,162.25  |
| 12   | PROFESSIONAL FEES |                             |               |
| 12.1 | Fees              | L.S 15% \$ 12,800,649.00 \$ | 1,920,097.35  |
|      |                   |                             |               |
|      |                   | TOTAL \$ (EXCL GST) \$      | 17,920,908.60 |

## DISCOUNTED CASHFLOW

## **APPENDIX V**

## CIAL DISCLOSURE LAND VALUATION as at 30 June 2013 Scenario: Sell-Down of Land

|                                  |                    |              |                 |            | 1   |              |                | 2      |              |              |        | 3            |               |        | 4            |                | 5      |              |                |        | 6            |                |        | 7            |                |        |              |               |
|----------------------------------|--------------------|--------------|-----------------|------------|-----|--------------|----------------|--------|--------------|--------------|--------|--------------|---------------|--------|--------------|----------------|--------|--------------|----------------|--------|--------------|----------------|--------|--------------|----------------|--------|--------------|---------------|
| Alternative Land Use             | Lega               |              |                 | Gross      |     | Sep 13 : Aug |                |        | Sep 14 : Aug |              |        | Sep 15 : Au  |               |        | Sep 16 : Aug |                |        | Sep 17 : Aug |                |        | Sep 18 : Aug |                |        | Sep 19 : Aug |                |        | Sep 20 : Au  |               |
|                                  | Area (h            | a) Fi        | HLV Real        | alisation  |     | Land Area    | Gross Real.    | % Sold | Land Area    | Gross Real.  | % Sold |              | Gross Real.   | % Sold | Land Area    | Gross Real.    | % Sold |              |                | % Sold |              |                | % Sold | Land Area    | Gross Real.    | % Sold | Land Area    | Gross Real.   |
|                                  |                    |              |                 |            |     | Rev. Growth: | 0.0%           |        | Rev. Growth: | 3.0%         |        | Rev. Growth: | 3.0%          |        | Rev. Growth: | 3.0%           |        | Rev. Growth: | 3.0%           |        | Rev. Growth: | 3.0%           |        | Rev. Growth: | 3.0%           |        | Rev. Growth: | 3.0%          |
| 1 Retail / Office                | 12% 67.81          | 98 ha \$2.60 | 00.000/ha \$176 | 76.331.374 | 15% | 10.1730 ha   | \$26,449,706   | 15%    | 10.1730 ha   | \$27,243,197 | 15%    | 10.1730 ha   | \$28.060.493  | 7.5%   | 5.0865 ha    | \$14.451.154   | 7.5%   | 5.0865 ha    | \$14.884.689   | 7.5%   | 5.0865 ha    | \$15,331,229   | 7.5%   | 5.0865 ha    | \$15,791,166   | 7.5%   | 5.0865 ha    | \$16,264,901  |
| 2 Light Industrial / Distribu    | 31% 173.46         |              | 00.000/ha \$242 |            |     |              | <b>4</b> 20, , |        |              | 4            |        |              | 420,000,000   | 10%    | 17.3460 ha   | \$26,536,222   |        | 17.3460 ha   | \$27,332,308   |        | 17.3460 ha   | \$28,152,278   |        | 17.3460 ha   | \$28,996,846   |        | 17.3460 ha   | \$29.866.751  |
| 3 Residential                    | 34% 186.83         |              | 50.000/ha \$140 |            |     |              |                |        |              |              |        |              |               | 1070   | 17.0400 Hu   | ψL0,000,LLL    | 1070   | 17.0400110   | QL7,002,000    | 10%    | 18.6838 ha   | \$16,244,722   |        | 18.6838 ha   | \$16,732,064   |        | 18.6838 ha   |               |
| 4.1 Future Urban (outside M      | 22% 123.09         |              |                 | 18.464.408 |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                | 1070   | 10.0000 114  | ψ10,E-11,7EE   | 1070   | 10.0000 114  | \$10,70E,004   | 1070   | 10.0000 114  | ψ17,E04,0E0   |
| 4.1 I didie Orban (odiside w     | 100% 551.21        |              | 30,000/11a \$10 | 10,404,400 |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
|                                  | 100/6 331.21       | ,, 11a       |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| 5 Existing Roading / Utilities   | 11.75              | Ed bo        |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| 6 Future Roading                 | 42.80              |              |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| 7 Reserves / Infrastructure      | 7.00               |              |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| / Reserves / Infrastructure      | 7.00               | JU na        |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| Gross Realisation                | 612.768            | ha           | \$577           | 77,768,205 |     | 10.1730ha    | \$26,449,706   |        | 10.1730ha    | \$27,243,197 |        | 10.1730ha    | \$28,060,493  |        | 22.4325ha    | \$40,987,376   |        | 22.4325ha    | \$42,216,997   |        | 41.1163ha    | \$59,728,229   |        | 41.1163ha    | \$61,520,076   |        | 41.1163ha    | \$63,365,679  |
|                                  |                    |              |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| Less: Selling Expenses           |                    |              |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| Sales Commissions                | 2.5%               |              | \$14            | 14,444,205 |     |              | \$661,243      | 1      |              | \$681,080    |        |              | \$701,512     |        |              | \$1,024,684    |        |              | \$1,055,425    |        |              | \$1,493,206    |        |              | \$1,538,002    |        |              | \$1,584,142   |
| Promotion                        | 0.5%               |              | \$2             | 2,888,841  |     |              | \$132,249      | ,      |              | \$136,216    |        |              | \$140,302     |        |              | \$204.937      |        |              | \$211,085      |        |              | \$298,641      |        |              | \$307,600      |        |              | \$316,828     |
|                                  |                    |              |                 | , , , .    |     |              |                |        |              |              |        |              |               |        |              |                |        |              | . ,            |        |              |                |        |              |                |        |              |               |
| Net Realisation                  |                    |              | \$560           | 60,435,159 |     |              | \$25,656,215   |        |              | \$26,425,901 |        |              | \$27,218,678  |        |              | \$39,757,755   |        |              | \$40,950,487   |        |              | \$57,936,382   |        |              | \$59,674,474   |        |              | \$61,464,708  |
|                                  |                    |              |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| Less: Development Costs          |                    |              |                 |            |     |              |                |        |              |              |        |              |               |        |              |                |        |              |                |        |              |                |        |              |                |        |              |               |
| Planning / Consent Costs         |                    |              | (\$3            | 3,500,000) | 20% |              | (\$700,000)    | 25%    |              | (\$901,250)  | 30%    |              | (\$1.113.945) | 20%    |              | (\$764,909)    | 5%     |              | (\$196,964)    |        |              |                |        |              |                |        |              |               |
| Future Connecting Road Network i | including Services |              |                 | 7,581,096) |     |              | (4:,,          |        |              | (4001,200)   |        |              | (0.,,)        | 25%    |              | (\$26,657,375) |        |              | (\$38,439,934) | 20%    |              | (\$22,624,647) | 15%    |              | (\$17,477,540) | 5%     |              | (\$6,000,622) |
| Total Development Costs          |                    |              | (φυ)            | .,,000)    |     | -            | (\$700,000)    | 1      | -            | (\$901,250)  | 1      |              | (\$1,113,945) |        | -            | (\$27,422,283) |        |              | (\$38,636,898) |        | -            | (\$22,624,647) | .570   | -            | (\$17,477,540) |        |              | (\$6,000,622) |
| Total Bereiopinoni Gusta         |                    |              |                 |            |     |              | (4.00,000)     | 1      |              | (\$301,230)  |        |              | (\$1,713,543) |        |              | (42., 422,203) | 1      |              | (400,000,000)  |        |              | (422,024,047)  |        |              | (\$1.,477,540) |        |              | (40,000,022)  |
| Net Cashflow (Annual in Arrears) |                    |              | \$459           | 59.354.063 |     |              | \$24,956,215   |        |              | \$25,524,651 |        |              | \$26,104,733  |        |              | \$12,335,471   |        |              | \$2,313,589    |        |              | \$35,311,736   |        |              | \$42,196,934   |        |              | \$55,464,086  |

|  |                    |                                       |  |        |                                       |  | 11 12  |                                |                                 |                |                              |                                 |                   | - 40                                   |  |                             |                          |                               |                                     |              |                               |
|--|--------------------|---------------------------------------|--|--------|---------------------------------------|--|--------|--------------------------------|---------------------------------|----------------|------------------------------|---------------------------------|-------------------|--|--|-----------------------------|--------------------------|-------------------------------|-------------------------------------|--------------|-------------------------------|
|  |                    | Sep 21 : Aug                          | 22   |        | Sep 22 : Aug                          | 1 23   |        | Sep 23 : Aug                   | 24                              |                | Sep 24 : Aug 25              |                                 |                   | 13<br>Sep 25 : Aug                     | 26   | Sep 26 : Aug 27             |                          |                               | 15<br>Sep 27 : Aug 28               |              |                               |
|  | % Sold             | % Sold Land Area Gross Real. % S      |  | % Sold | % Sold Land Area Gross Real. 9        |  | % Sold | % Sold Land Area Gross Real. % |                                 | % Sold         | % Sold Land Area Gross Real. |                                 | % Sold            | 6 Sold Land Area Gross Real.           |  | % Sold Land Area Gross Real |                          | Gross Real.                   | % Sold <u>Land Area</u> Gross Real. |              | Gross Real.                   |
|  |                    | Rev. Growth:                          | 3.0%   |        | Rev. Growth:                          | 3.0%   |        | Rev. Growth:                   | 3.0%                            |                | Rev. Growth:                 | 3.0%                            |                   | Rev. Growth:                           | 3.0%   |                             | Rev. Growth:             | 3.0%                          |                                     | Rev. Growth: | 3.0%                          |
| Discount   Total   On Gross   On Useable | 7.5%<br>10%<br>10% | 5.0865 ha<br>17.3460 ha<br>18.6838 ha | \$16,752,848<br>\$30,762,754<br>\$17,751,047 | 10%    | 6.7820 ha<br>17.3460 ha<br>18.6838 ha | \$23,007,245<br>\$31,685,637<br>\$18,283,578 | 10%    | 17.3460 ha<br>18.6838 ha       | \$32,636,206<br>\$18,832,086    | i 10%<br>i 10% | 17.3460 ha<br>18.6838 ha     | \$33,615,292<br>\$19,397,048    | 10%<br>10%<br>50% | 17.3460 ha<br>18.6838 ha<br>61.5480 ha | \$34,623,751<br>\$19,978,960<br>\$13,162,915 |                             | 18.6838 ha<br>61.5480 ha | \$20,578,328<br>\$13,557,803  |                                     | 18.6838 ha   | \$21,195,678                  |
|  |                    | 41.1163ha                             | \$65,266,649                                 |        | 42.8118ha                             | \$72,976,460                                 |        | 36.0298ha                      | \$51,468,291                    |                | 36.0298ha                    | \$53,012,340                    |                   | 97.5778ha                              | \$67,765,625                                 |                             | 80.2318ha                | \$34,136,131                  |                                     | 18.6838ha    | \$21,195,678                  |
|  |                    |                                       | \$1,631,666<br>\$326,333<br>\$0              |        |                                       | \$1,824,411<br>\$364,882<br>\$0              |        |                                | \$1,286,707<br>\$257,341<br>\$0 | 1              |                              | \$1,325,308<br>\$265,062<br>\$0 |                   |  | \$1,694,141<br>\$338,828<br>\$0              |                             |                          | \$853,403<br>\$170,681<br>\$0 |                                     |              | \$529,892<br>\$105,978<br>\$0 |
|  |                    |                                       | \$63,308,649                                 |        |                                       | \$70,787,166                                 |        |                                | \$49,924,242                    |                |                              | \$51,421,970                    |                   |  | \$65,732,657                                 |                             |                          | \$33,112,047                  |                                     |              | \$20,559,808                  |
|  |                    | -                                     | \$0  |        | -                                     | \$0  |        | =                              | \$0                             | <u> </u>       | =                            | \$0                             |                   | =                                      | \$0  |                             | -                        | \$0                           |                                     | =            | \$0                           |
| Net Cashflow (Annual in Arrears)         |                    |                                       | \$63,308,649                                 |        |                                       | \$70,787,166                                 |        |                                | \$49,924,242                    |                |                              | \$51,421,970                    |                   |  | \$65,732,657                                 |                             |                          | \$33,112,047                  |                                     |              | \$20,559,808                  |