

Infrastructure Costings

PMP Printing Precinct Strategic Site

Cardno Project Reference: V170605



Prepared for
Victorian Planning Authority

16 July 2019

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Disclaimer

Cardno have made a number of assumptions for the extraction and use of the underlying data as outlined within this document. Cardno as far as practicable have included sufficient units and rates to provide budget-costing data only, Cardno assumes no liability for losses incurred through changes to quantities or increases in construction costs or overheads. The values and quantities included within this document are not intended for use in construction pricing and do not constitute a Bill of Quantities.

Functional layouts provided for all civil components are for information only and shall not be used for space proofing / boundary extents. The final arrangement of all civil components is subject to detailed design by qualified people or organisations, after appropriate due diligence investigations relevant to specific sites and project scope.

Table of Contents

| | | |
|----------|--|----------|
| 1 | Introduction | 5 |
| 2 | Assumptions and Results | 5 |
| 2.1 | Kionga Street/ Moriah Street Road Humps | 5 |
| 2.2 | Browns Road Pedestrian Operated Signals | 5 |
| 2.3 | Browns Road – Flat top Road Hump | 5 |
| 2.4 | Centre Road/ Carinish Road Linemarking upgrades | 5 |
| 2.5 | Browns Road/ Carinish Road Signalised intersection | 6 |

Appendices

- Appendix A** Reference Material
Appendix B Detailed Cost Sheets

1 Introduction

The PMP Printing precinct located on the corner of Carinish Road and Browns Road in Clayton has witnessed a large decrease in manufacturing over the recent decades. The Victorian Planning Authority (VPA), in consultation with Monash City Council are in the process of preparing concepts to guide the renewal of the site. Through this process the industrial land zone will be configured to be largely suitable for residential purposes with a mix of businesses.

Cardno has been engaged to provide high level costings advice over 6 key locations where improvements to transport infrastructure has been proposed. The following sections of the report outline the key assumptions adopted and the results of the costings exercise.

2 Assumptions and Results

The costing exercise was conducted based on the scope and quantities derived from the concept designs prepared by Cardno for the PSP. Due to the project scopes being relatively minor and isolated from each other, the majority of Benchmark rates were deemed not suitable. Benchmark P90 signal rates have however been recommended for the Browns Road/ Carinish Road signalisation project. Additionally, a percentage-based approach for the calculation of delivery costs has not been used where overall project costs are minor. For such projects the delivery estimates have been provided in the form of itemised costs.

2.1 Kionga Street/ Moriah Street Road Humps

- > 12(No.) Watt Profile road humps are proposed along Kionga Street and Moriah Street (6 humps per street – drawing reference V170605-TR-SK-0017/18);
- > Size 10, Type N asphalt has been adopted for the road hump;
- > Profiling the existing pavement to a depth of 15mm has been adopted to provide a key in joint;
- > Project estimated cost for the construction of 12(No.) Watt Profiles is \$82,085 (including delivery, excluding GST).

2.2 Browns Road Pedestrian Operated Signals

- > Infrastructure upgrade involves providing pedestrian operated signals on Browns Road and minor linemarking changes on Francis Street (drawing reference V170605-TR-SK-0019);
- > Minor changes to the existing kerb layout and adjacent pits have been accommodated within the works;
- > Project estimated cost is \$286,723 (including delivery, excluding GST).

2.3 Browns Road – Flat top Road Hump

- > Infrastructure upgrade involves providing a speed hump on Browns Road (drawing reference V170605-TR-SK-0023);
- > Size 10, Type N asphalt has been adopted for the road hump;
- > Project estimated cost is \$18,546 (including delivery, excluding GST).

2.4 Centre Road/ Carinish Road Linemarking upgrades

- > Infrastructure upgrade involves providing new linemarking and minor changes to the kerb alignment (drawing reference V170605-TR-SK-0015);
- > Existing Electricity pole at the corner of Rayhur Street and Centre Road assumed to be required to be relocated

-
- > Project estimated cost is \$55,485 (including delivery, excluding GST).

2.5 Browns Road/ Carinish Road Signalised intersection

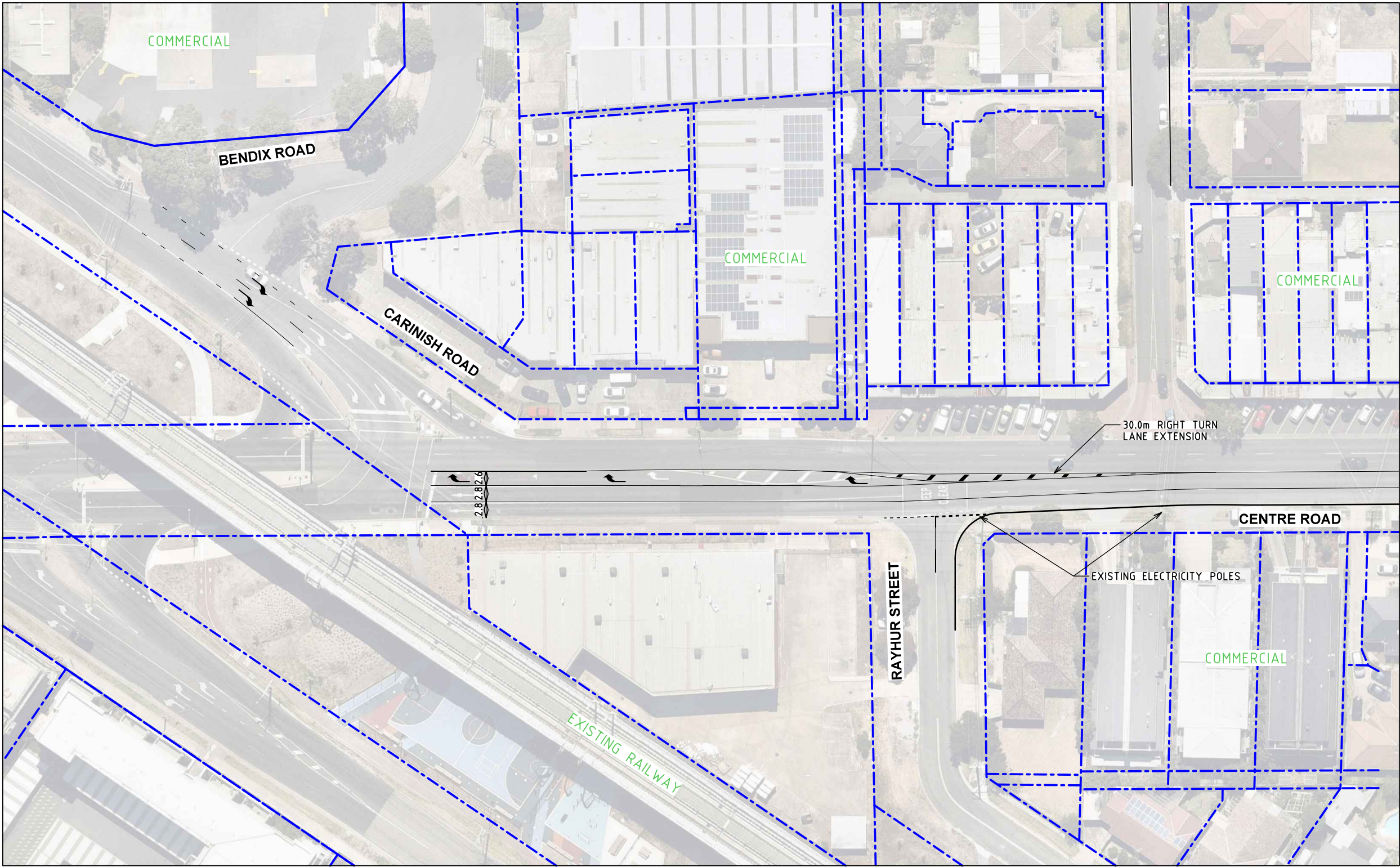
- > Signalisation of T-intersection and providing suitable linemarking has been proposed (drawing reference V170605-TR-SK-0020);
- > Demolition of existing central island median, relocation of existing electricity pole and reconfiguration of kerb alignments have been captured within the works;
- > Benchmark project rates have been used to inform intersection traffic signal costs;
- > Project estimated cost is \$660,303 (including delivery, excluding GST).

PMP Printing Precinct Strategic Site

APPENDIX

A

REFERENCE MATERIAL



MELWAY MAP REF 79 E3

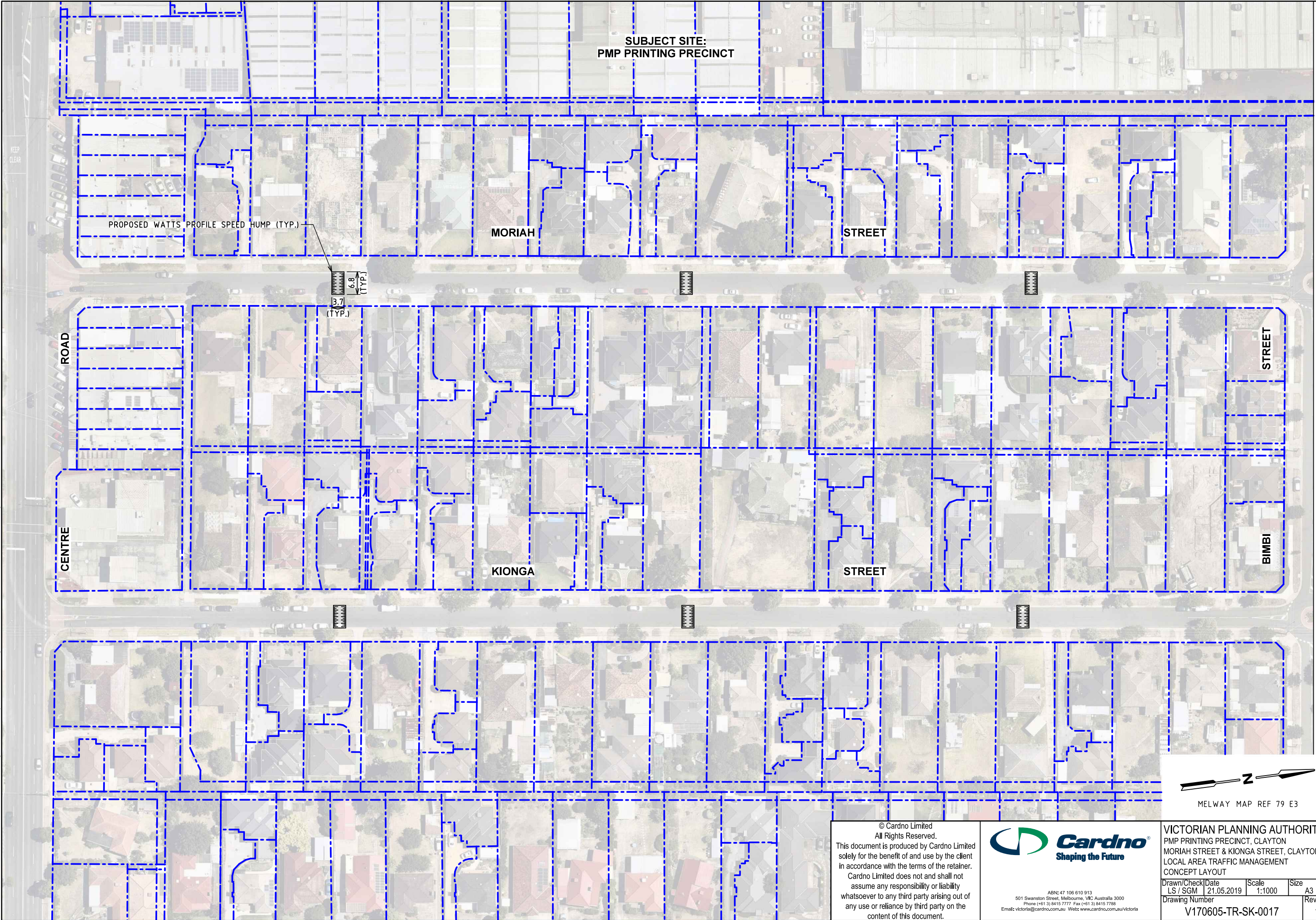
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VICTORIA PLANNING AUTHORITY
PMP PRINTING PRECINCT, CLAYTON
CARNISH ROAD AND PRECINCT, CLAYTON
CONCEPT LAYOUT PLAN

| | | |
|---------------------|----------|------|
| Drawn/Check/Date | Scale | Size |
| NB / COB 12.04.2019 | 1:750 | A3 |
| Drawing Number | Revision | |
| V170605-TR-SK-0015 | 3 | |



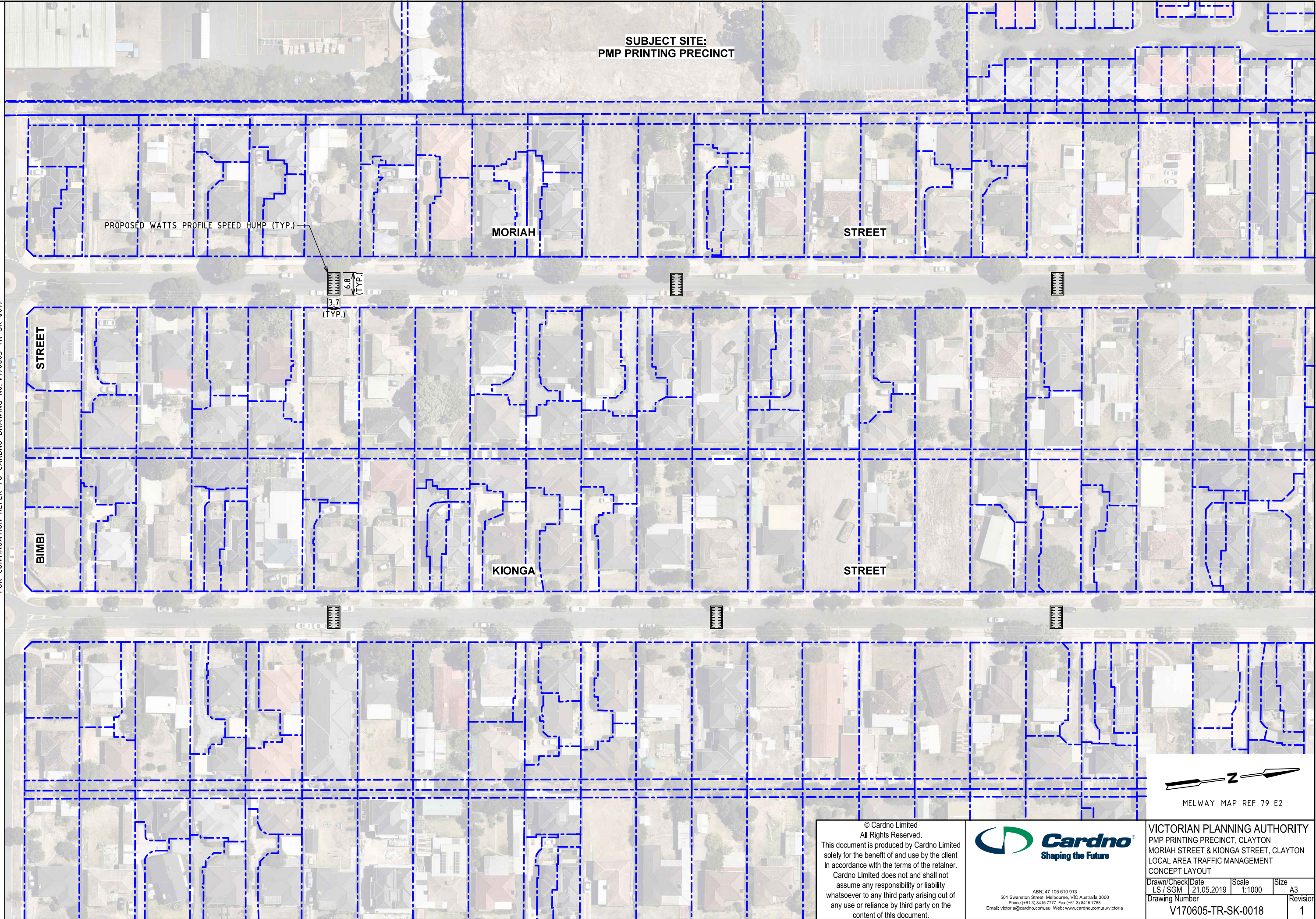
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| VICTORIAN PLANNING AUTHORITY | | | |
| PMP PRINTING PRECINCT, CLAYTON | | | |
| MORIAH STREET & KIONGA STREET, CLAYTON | | | |
| LOCAL AREA TRAFFIC MANAGEMENT | | | |
| CONCEPT LAYOUT | | | |
| Drawn/Check/Date | Scale | Size | |
| LS / SGM 21.05.2019 | 1:1000 | A3 | |
| Drawing Number | | | Revision |
| V170605-TR-SK-0017 | | | 1 |



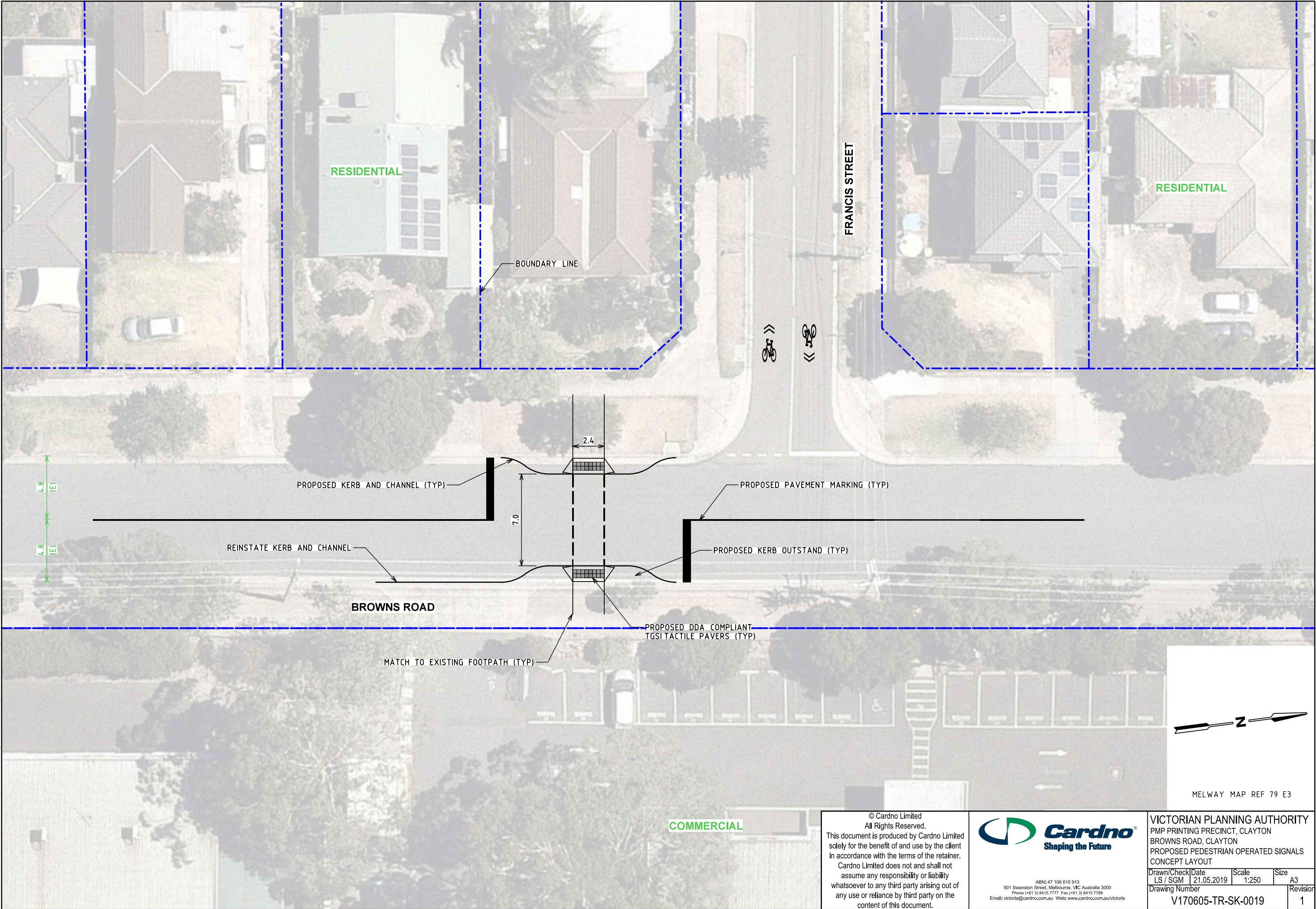
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|---|------------|-----------------|---------------|
| VICTORIAN PLANNING AUTHORITY PMP PRINTING PRECINCT, CLAYTON MORIAH STREET & KIONGA STREET, CLAYTON LOCAL AREA TRAFFIC MANAGEMENT CONCEPT LAYOUT | | | |
| Drawn/Check/Date LS / SGM | 21.05.2019 | Scale 1:1000 | Size A3 |
| Drawing Number V170605-TR-SK-0018 | | | Revision 1 |



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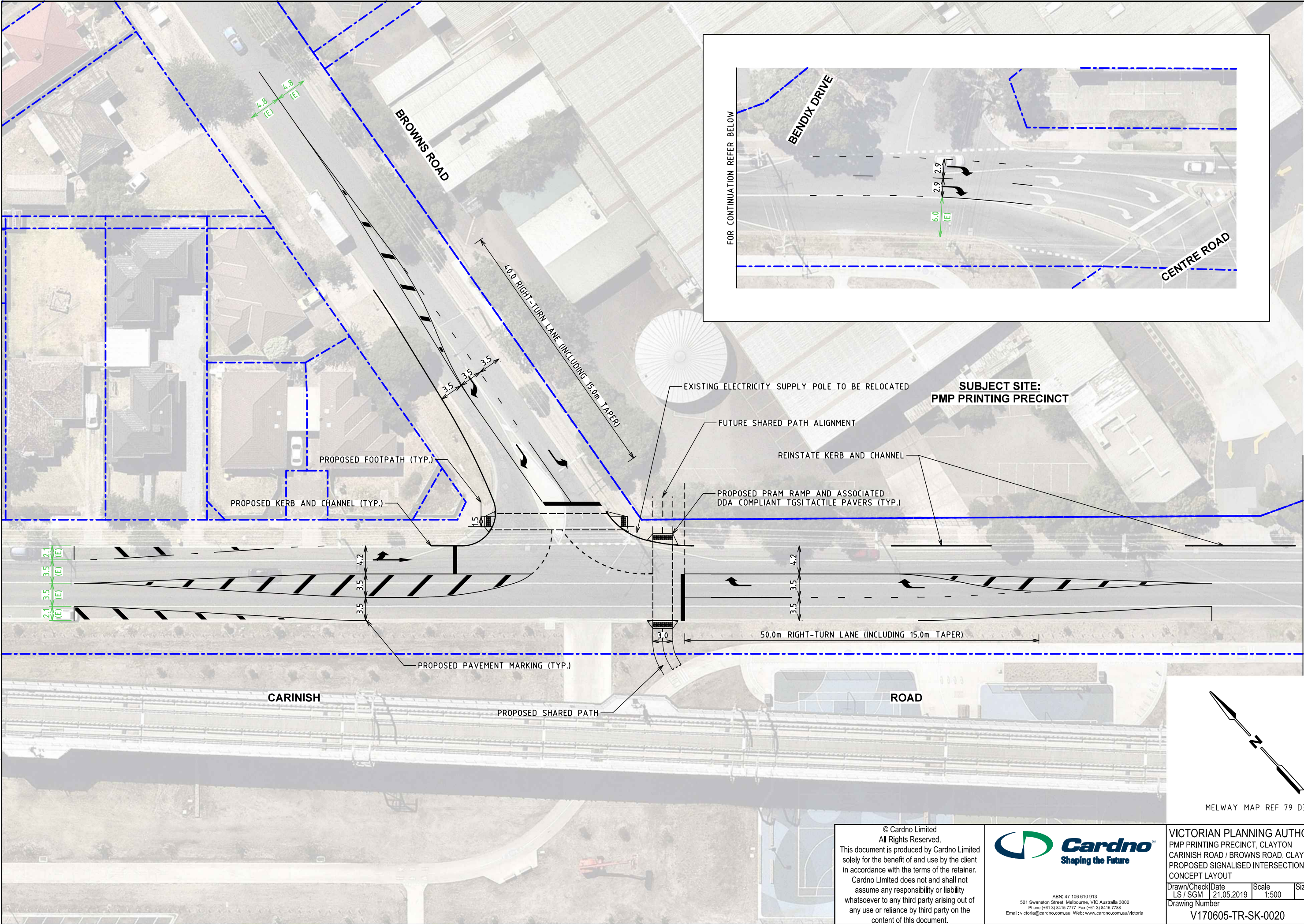


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|--|------------|----------------|---------------|
| VICTORIAN PLANNING AUTHORITY PMP PRINTING PRECINCT, CLAYTON BROWNS ROAD, CLAYTON PROPOSED PEDESTRIAN OPERATED SIGNALS CONCEPT LAYOUT | | | |
| Drawn/Check/Date LS / SGM | 21.05.2019 | Scale 1:250 | Size A3 |
| Drawing Number V170605-TR-SK-0019 | | | Revision 1 |

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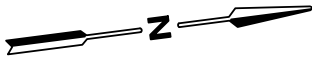
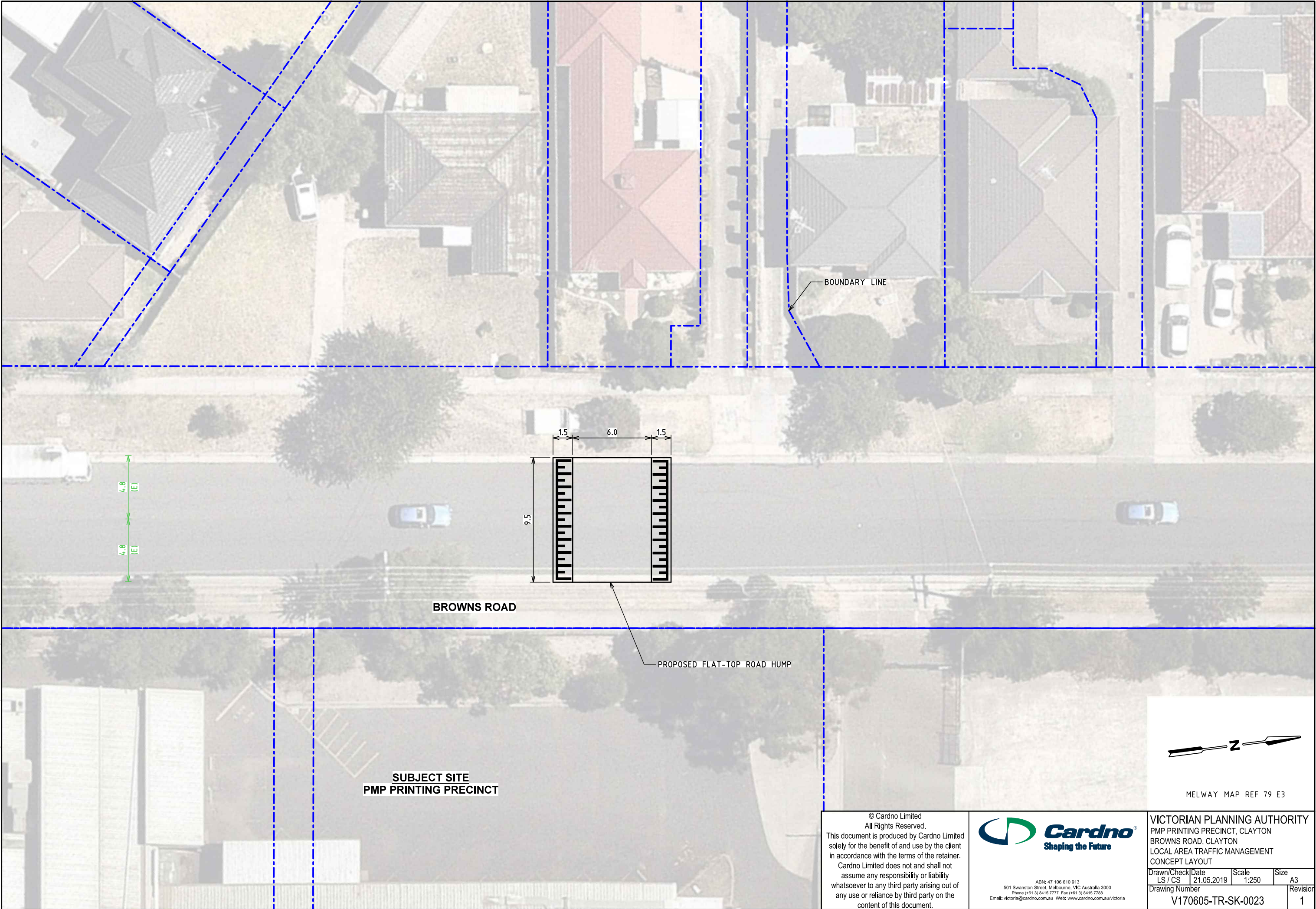
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|--------------------------------------|-------|------|----------|
| VICTORIAN PLANNING AUTHORITY | | | |
| PMP PRINTING PRECINCT, CLAYTON | | | |
| CARINISH ROAD / BROWNS ROAD, CLAYTON | | | |
| PROPOSED SIGNALISED INTERSECTION | | | |
| CONCEPT LAYOUT | | | |
| Drawn/Check/Date | Scale | Size | |
| LS / SGM 21.05.2019 | 1:500 | A3 | |
| Drawing Number | | | Revision |
| V170605-TR-SK-0020 | | | 1 |

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MELWAY MAP REF 79 E3

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| | | | |
|---|----------------|------------|---------------|
| VICTORIAN PLANNING AUTHORITY PMP PRINTING PRECINCT, CLAYTON BROWNS ROAD, CLAYTON LOCAL AREA TRAFFIC MANAGEMENT CONCEPT LAYOUT | | | |
| Drawn/Check/Date LS / CS 21.05.2019 | Scale 1:250 | Size A3 | Revision 1 |
| Drawing Number V170605-TR-SK-0023 | | | |

APPENDIX

B

DETAILED COST SHEETS

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS
V170605
PMP PRINTING PRECINCT, CLAYTON
KIONGA STREET/ MORIAH STREET
ESTIMATE FOR PROJECT IMPLEMENTATION COSTS DETAIL
12(No.) WATT PROFILE SPEED HUMPS - ITEM 2.1

| ITEM | DESCRIPTION OF WORK | QUANTITY | UNIT | RATE | AMOUNT | SUBTOTAL |
|----------|---|----------|------|--------------|--------------|------------------|
| A | ROADWORKS | | | | | \$ 47,900 |
| 1.1 | Profile ex. Asphalt to provide a key in joint | 1 | item | \$ 8,000.00 | \$ 8,000.00 | |
| 1.2 | Construct Hump (Asphalt Size 10 Type N) | 1 | item | \$ 18,000.00 | \$ 18,000.00 | |
| 1.3 | Linemarking | 1 | item | \$ 9,000.00 | \$ 9,000.00 | |
| 1.4 | Signs | 24 | No. | \$ 350.00 | \$ 8,400.00 | |
| 1.5 | Asphalt disposal fee (incl Transport) | 1 | item | \$ 4,500.00 | \$ 4,500.00 | |
| B | DELIVERY | | | | | \$ 34,185 |
| 2.1 | Council Fees | 1 | item | \$ 1,500.00 | \$ 1,500.00 | |
| 2.2 | Traffic Management | 1 | item | \$ 11,000.00 | \$ 11,000.00 | |
| 2.3 | Environmental Management | 1 | item | \$ 1,500.00 | \$ 1,500.00 | |
| 2.4 | Surveying and Design | 1 | item | \$ 2,000.00 | \$ 2,000.00 | |
| 2.5 | Supervision and Project Management | 1 | item | \$ 6,000.00 | \$ 6,000.00 | |
| 2.6 | Site establishment | 1 | item | \$ 5,000.00 | \$ 5,000.00 | |
| 2.7 | Contingency | 1 | % | 15.00% | \$ 7,185.00 | |
| C | PROJECT BUDGET | | | | | |
| | Total Estimate | | | | | \$ 82,085 |

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS
V170605
PMP PRINTING PRECINCT, CLAYTON
BROWNS RD-FRANCIS ST POS
ESTIMATE FOR PROJECT IMPLEMENTATION COSTS DETAIL
PEDESTRIAN OPERATED SIGNALS - ITEM 2.2

| ITEM | DESCRIPTION OF WORK | QUANTITY | UNIT | RATE | AMOUNT | SUBTOTAL |
|----------|---|----------|----------------|---------------|---------------|-------------------|
| A | ROADWORKS | | | | | \$ 188,000 |
| 1.1 | Supply and installation of pedestrian signals | 1 | item | \$ 100,000.00 | \$ 100,000.00 | |
| 1.2 | Signal maintenance | 1 | item | \$ 65,000.00 | \$ 65,000.00 | |
| 1.3 | Reinstate pavement strip | 1 | item | \$ 5,000.00 | \$ 5,000.00 | |
| 1.4 | Modify existing Drainage pit | 1 | item | \$ 3,000.00 | \$ 3,000.00 | |
| 1.5 | Drainage pipe | 1 | item | \$ 15,000.00 | \$ 15,000.00 | |
| B | CONCRETE WORKS | | | | | \$ 7,990 |
| 2.1 | Pedestrian footpaths | 24 | m ² | \$ 73.00 | \$ 1,752.00 | |
| 2.2 | Reconstruct kerb | 37 | m | \$ 74.00 | \$ 2,738.00 | |
| 2.3 | Remove existing kerb | 1 | item | \$ 1,800.00 | \$ 1,800.00 | |
| 2.4 | Laybacks and tactile pavers | 2 | No | \$ 850.00 | \$ 1,700.00 | |
| C | DELINEATION | | | | | \$ 7,000 |
| 3.1 | Signing | 1 | item | \$ 5,000.00 | \$ 5,000.00 | |
| 3.2 | Linemarking | 1 | item | \$ 2,000.00 | \$ 2,000.00 | |
| D | DELIVERY | | | | | \$ 83,733 |
| 4.1 | Council Fees | 1 | % | 3.25% | \$ 6,597.18 | |
| 4.2 | VicRoads Fees | 1 | % | 1.00% | \$ 2,029.90 | |
| 4.3 | Traffic Management | 1 | % | 5.00% | \$ 10,149.50 | |
| 4.4 | Environmental Management | 1 | % | 0.50% | \$ 1,014.95 | |
| 4.5 | Surveying and Design | 1 | % | 5.00% | \$ 10,149.50 | |
| 4.6 | Supervision and Project Management | 1 | % | 9.00% | \$ 18,269.10 | |
| 4.7 | Site establishment | 1 | % | 2.50% | \$ 5,074.75 | |
| 4.8 | Contingency | 1 | % | 15.00% | \$ 30,448.50 | |
| E | PROJECT BUDGET | | | | | |
| | Total Estimate | | | | | \$ 286,723 |

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS
V170605
PMP PRINTING PRECINCT, CLAYTON
BROWNS ROAD - ROAD HUMP
ESTIMATE FOR PROJECT IMPLEMENTATION COSTS DETAIL
1(No.) ROAD HUMP - ITEM 2.3

| ITEM | DESCRIPTION OF WORK | QUANTITY | UNIT | RATE | AMOUNT | SUBTOTAL |
|----------|---|----------|------|-------------|-------------|------------------|
| A | ROADWORKS | | | | | \$ 10,040 |
| 1.1 | Profile ex. Asphalt to provide a key in joint | 1 | item | \$ 3,000.00 | \$ 3,000.00 | |
| 1.2 | Construct Hump (Asphalt Size 10 Type N) | 1 | item | \$ 3,200.00 | \$ 3,200.00 | |
| 1.3 | Linemarking | 1 | item | \$ 1,800.00 | \$ 1,800.00 | |
| 1.4 | Signs | 2 | No. | \$ 270.00 | \$ 540.00 | |
| 1.5 | Asphalt disposal fee (incl Transport) | 1 | item | \$ 1,500.00 | \$ 1,500.00 | |
| | | | | | | |
| B | DELIVERY | | | | | \$ 8,506 |
| 2.1 | Council Fees | 1 | item | \$ 500.00 | \$ 500.00 | |
| 2.2 | VicRoads Fees | 1 | % | 0.00% | \$ - | |
| 2.3 | Traffic Management | 1 | item | \$ 2,000.00 | \$ 2,000.00 | |
| 2.4 | Environmental Management | 1 | item | \$ 500.00 | \$ 500.00 | |
| 2.5 | Surveying and Design | 1 | item | \$ 1,000.00 | \$ 1,000.00 | |
| 2.6 | Supervision and Project Management | 1 | item | \$ 1,000.00 | \$ 1,000.00 | |
| 2.7 | Site establishment | 1 | item | \$ 2,000.00 | \$ 2,000.00 | |
| 2.8 | Contingency | 1 | % | 15.00% | \$ 1,506.00 | |
| | | | | | | |
| C | PROJECT BUDGET | | | | | |
| | Total Estimate | | | | | \$ 18,546 |

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS
V170605
PMP PRINTING PRECINCT, CLAYTON
CENTRE ROAD - CARINISH ROAD
ESTIMATE FOR PROJECT IMPLEMENTATION COSTS DETAIL
LINEMARKING AND ROADWORKS - ITEM 2.4

| ITEM | DESCRIPTION OF WORK | QUANTITY | UNIT | RATE | AMOUNT | SUBTOTAL |
|----------|------------------------------------|----------|----------------|-------------|-------------|------------------|
| A | ROADWORKS | | | | | \$ 32,744 |
| 1.1 | Linemarking | 1 | item | \$ 3,000 | \$ 3,000 | |
| 1.2 | Relay kerb | 32 | m | \$ 74.00 | \$ 2,368 | |
| 1.3 | Install new Sub surface drainage | 32 | m | \$ 43.00 | \$ 1,376 | |
| 1.4 | Remove existing kerb | 1 | Item | \$ 1,200.00 | \$ 1,200 | |
| 1.5 | New pavement (390mm depth) | 40 | m ² | \$ 270 | \$ 10,800 | |
| 1.6 | Relocate power pole | 1 | Item | \$ 11,000 | \$ 11,000 | |
| 1.6 | Relocate SEP | 1 | Item | \$ 3,000 | \$ 3,000 | |
| B | DELIVERY | | | | | \$ 22,741 |
| 2.1 | Council Fees | 1 | % | 3.25% | \$ 1,064.18 | |
| 2.2 | VicRoads Fees | 1 | % | 0.00% | \$ - | |
| 2.3 | Traffic Management | 1 | Item | \$ 7,500.00 | \$ 7,500.00 | |
| 2.4 | Environmental Management | 1 | Item | \$ 500.00 | \$ 500.00 | |
| 2.5 | Surveying and Design | 1 | Item | \$ 5,000.00 | \$ 5,000.00 | |
| 2.6 | Supervision and Project Management | 1 | % | 9.00% | \$ 2,946.96 | |
| 2.7 | Site establishment | 1 | % | 2.50% | \$ 818.60 | |
| 2.8 | Contingency | 1 | % | 15.00% | \$ 4,911.60 | |
| C | PROJECT BUDGET | | | | | |
| | Total Estimate | | | | | \$ 55,485 |

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS
V170605
PMP PRINTING PRECINCT, CLAYTON
BROWNS RD CARINISH SIGNALS
ESTIMATE FOR PROJECT IMPLEMENTATION COSTS DETAIL
SIGNALISED INTERSECTION - ITEM 2.5

| ITEM | DESCRIPTION OF WORK | QUANTITY | UNIT | RATE | AMOUNT | SUBTOTAL |
|----------|--|----------|------|---------------|---------------|-------------------|
| A | ROADWORKS | | | | | \$ 438,000 |
| 1.1 | Traffic signals (all inclusive) | 1 | item | \$ 386,400.00 | \$ 386,400.00 | |
| 1.2 | New pavement | 80 | m² | \$ 270.00 | \$ 21,600.00 | |
| 1.3 | Relocate power pole | 1 | item | \$ 11,000.00 | \$ 11,000.00 | |
| 1.4 | Pavement Strip for kerb | 1 | item | \$ 2,000.00 | \$ 2,000.00 | |
| 1.5 | Remove pavement surface intersection leg | 1 | item | \$ 7,000.00 | \$ 7,000.00 | |
| 1.6 | Pavement resheet intersection leg | 1 | item | \$ 10,000.00 | \$ 10,000.00 | |
| | | | | | | |
| B | CONCRETE & ROAD WORKS | | | | | \$ 13,071 |
| 2.1 | Pedestrian footpaths | 27 | m² | \$ 73.00 | \$ 1,971.00 | |
| 2.2 | Reconstruct kerb | 100 | m | \$ 74.00 | \$ 7,400.00 | |
| 2.3 | Remove existing kerb | 1 | item | \$ 1,200.00 | \$ 1,200.00 | |
| 2.4 | Remove existing median | 1 | item | \$ 2,500.00 | \$ 2,500.00 | |
| | | | | | | |
| C | DELINEATION | | | | | \$ 16,400 |
| 3.1 | Signing | 1 | item | \$ 5,000.00 | \$ 5,000.00 | |
| 3.2 | Linemarking | 1 | item | \$ 8,000.00 | \$ 8,000.00 | |
| 3.4 | Laybacks and tactile pavers | 4 | No | \$ 850.00 | \$ 3,400.00 | |
| | | | | | | |
| C | DELIVERY | | | | | \$ 192,832 |
| 4.1 | Council Fees | 1 | % | 3.25% | \$ 15,192.81 | |
| 4.2 | VicRoads Fees | 1 | % | 1.00% | \$ 4,674.71 | |
| 4.3 | Traffic Management | 1 | % | 5.00% | \$ 23,373.55 | |
| 4.4 | Environmental Management | 1 | % | 0.50% | \$ 2,337.36 | |
| 4.5 | Surveying and Design | 1 | % | 5.00% | \$ 23,373.55 | |
| 4.6 | Supervision and Project Management | 1 | % | 9.00% | \$ 42,072.39 | |
| 4.7 | Site establishment | 1 | % | 2.50% | \$ 11,686.78 | |
| 4.8 | Contingency | 1 | % | 15.00% | \$ 70,120.65 | |
| | | | | | | |
| F | PROJECT BUDGET | | | | | |
| | Total Estimate | | | | | \$ 660,303 |