1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

RATIO CONSULTANTS PTY LTD
ABN 005 422 104
8 GWYNNE STREET
CREMORNE, VICTORIA 3121
TELEPHONE (03)9429 3111
FACSIMILE (03)9429 3011

NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h


<table>
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Proposed Mixed Use Development
445-467 Blackburn Road, Mount Waverley
Ground Level - Swept Path Assessment

RATIO REFERENCE 16439T-SK09/LI 1 of 15
SCALE 1:250@A4
DATE 01/11/2019
Proposed Mixed Use Development
445-467 Blackburn Road, Mount Waverley
Ground Level - Ambulance

Ambulance Victoria - Typical

Vehicle Envelope (Forward)
300mm Clearance (Forward)

Vehicle Envelope (Reverse)
300mm Clearance (Reverse)

Overall Length 6.115m
Overall Width 3.665m
Overall Body Height 2.900m
Min. Body Ground Clearance 0.150m
Track Width 1.700m
Lock to Lock Time 4.00 sec
Curb to Curb Turning Radius 6.800m

NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Ground Level – Loading


Vehicle Envelope (Forward)
500mm CLEARANCE (Forward)

Vehicle Envelope (Reverse)
500mm CLEARANCE (Reverse)

Ratio Consultants Pty Ltd
ABN 005 422 104
8 Gwynne Street
Cremorne, Victoria 3121
Telephone (03)9429 3111
Facsimile (03)9429 3011

Ratio Reference 16439T-SK09/LI
Sheet No. 3 of 15
Scale 1:250@A4
Date 01/11/2019
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

NOTE:
300mm CLEARANCE (FORWARD)
300mm CLEARANCE (REVERSE)

Overall Length 6.345m
Body Width 3.400m
Overall Body Height 2.080m
Min. Body Ground Clearance 0.205m
Track Width 1.670m
Lock to Lock Time 4.50 sec
Curb to Curb Turning Radius 8.40m

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 – Swept Path Assessment

RATIO REFERENCE 16439T–SK09/LI
SHEET No. 4 of 15
SCALE 1:500@A4
DATE 01/11/2019
Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 – Swept Path Assessment

RATIO REFERENCE
16439T–SK09/LI

SHEET No. 5 of 15
SCALE 1:500@A4
DATE 01/11/2019
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

B85 Vehicle (AS/NZS2890.1:2004)

Vehicle Envelope (Forward)
- Overall Length: 4.910m
- Overall Width: 2.28m
- Overall Body Height: 1.870m
- Min Body Ground Clearance: 0.159m
- Track Width: 1.770m
- Lock to Lock Time: 4.00 sec
- Curb to Curb Turning Radius: 5.80m

Vehicle Envelope (Reverse)
- Overall Length: 4.910m
- Overall Width: 2.28m
- Overall Body Height: 1.870m
- Min Body Ground Clearance: 0.159m
- Track Width: 1.770m
- Lock to Lock Time: 4.00 sec
- Curb to Curb Turning Radius: 5.80m

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 – Swept Path Assessment

RATIO CONSULTANTS PTY LTD
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CREMORNE, VICTORIA 3121
TELEPHONE (03)9429 3111
FACSIMILE (03)9429 3011

ABN 006 422 104

SHEET No. 6 of 15
SCALE 1:200@A4
DATE 01/11/2019
Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 – Swept Path Assessment

B85 Vehicle (AS/NZS2890.1:2004)

- Overall Length: 4.91m
- Overall Width: 2.88m
- Overall Height: 2.27m
- Min Body Ground Clearance: 0.16m
- Track Width: 1.70m
- Lock to Lock Time: 4.00 sec
- Curb to Curb Turning Radius: 5.80m

NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

ratio:
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ABN 005 422 104
8 Gwyne Street
Cremorne, Victoria 3121
Telephone (03)9429 3111
Facsimile (03)9429 3011

RATIO REFERENCE 16439T-SK09/L1
SHEET No. 7 of 15
SCALE 1:200@A4
DATE 01/11/2019

D19-542318
Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 – Swept Path Assessment

RATIO REFERENCE 16439T-SK09/L1
SHEET No. 8 of 15
SCALE 1:200@A4
DATE 01/11/2019

NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 — Swept Path Assessment

RATIO REFERENCES
16439T-SK09/L1

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ABN 005 422 104
8 GWINNE STREET
CREMORNE, VICTORIA 3121
TELEPHONE (03)9429 3011
FACSIMILE (03)9429 3111

D19-542318
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

1.1 B85 Vehicle (AS/NZS2890.1:2004)

2.8 300mm CLEARANCE (REVERSE)

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 – Swept Path Assessment

RATIO REFERENCE 16439T-SK09/L1
SHEET No. 10 of 15
SCALE 1:200@A4
DATE 01/11/2019
Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 1 – Swept Path Assessment

B35 Vehicle (Typical Small Car)

- Overall Length: 4.45m
- Overall Width: 2.65m
- Min. Body Ground Clearance: 0.248m
- Track Width: 1.700m
- Lock to Lock Time: 4.00 sec
- Curb to Curb Turning Radius: 5.50m

NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

NOTE:
- Clearance (Forward): 300mm
- Clearance (Reverse): 300mm

RATIO: RATIO CONSULTANTS PTY LTD
ABN 005 422 104
8 GYNE STREET
CREMORNE, VICTORIA 3121
TELEPHONE (03)9429 3111
FACSIMILE (03)9429 3011

RATIO REFERENCE: 164.39-T-SK09/L1
SHEET No.: 11 of 15
SCALE: 1:200@A4
DATE: 01/11/2019

D19-542318
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h


VEHICLE ENVELOPE (FORWARD)

VEHICLE ENVELOPE (REVERSE)

Overall Length 5.200m
Overall Width 2.200m
Overall Track Width 1.840m
Curb to Curb Turning Radius 6.30m

Min Body Ground Clearance 0.312m
Curb to Lock Time 4.00 sec
Locked to Lock Time 4.60 sec

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 2 – Swept Path Assessment
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

B85 Vehicle (AS/NZS2890.1:2004)

VEHICLE ENVELOPE (FORWARD)

300mm CLEARANCE (FORWARD)

300mm CLEARANCE (REVERSE)

VEHICLE ENVELOPE (REVERSE)

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Basement 2 – Swept Path Assessment

RATIO REFEREECE 16439T-SK09/L1
SHEET No. 13 of 15
SCALE 1:200@A4
DATE 01/11/2019
NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Vertical Clearance Assessment


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RATIO REFERENCE: 16439T-SK09/LI
SHEET No.: 14 of 15
SCALE: 1:200@A4
DATE: 01/11/2019
Proposed Mixed Use Development
445–467 Blackburn Road, Mount Waverley
Vertical Clearance Assessment

NOTE:
1) Base Plan Supplied by Metaxas Architects
2) Maximum Design Speed 10km/h

NOTE:
300mm CLEARANCE (FORWARD)
300mm CLEARANCE (REVERSE)

VEHICLE ENVELOPE (FORWARD)
VEHICLE ENVELOPE (REVERSE)

Mini—Rear Loader Waste Collection Vehicle

Ground to Basement 1 Ramp

B1 to B2 Inside Kerb

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ABN 005 422 104
8 GYNNE STREET
CREMORNE, VICTORIA 3121
TELEPHONE (03)9429 3111
FACSIMILE (03)9429 3011

RATIO REFERENCE 16439T–SK09/L1
SHEET No. 15 of 15
SCALE 1:200@A4
DATE 01/11/2019
Appendix C Bicycle Parking Specifications
**Arc de Triomphe™**

**Features**

- Each rail supports two adult bikes in an upright position
- Can be either bolted to a concrete slab or concreted in situ
- Available in stainless steel or galvanised steel
- Provides the ability to lock both wheels and frame
- Suitable for foyers and entry areas

**Dimensions**

- Welded base plate: 1000mm
- Concrete footing: 850mm
- Height: 200mm

**Specifications**

**Material options**
- Galvanised (Duragal)
- 316 Marine grade stainless steel

**Fixing options**
- Welded flange - Bolt on
- In situ

**Recommended fasteners**
- Galvanised Dynabolts (M10 x 65mm)
- Stainless Dynabolts (M10 x 65mm)
- Shear Nut security fasteners

**Dimensions**

1000mm [w] x 850mm [h]

**Locking Points**

Galvanised finish / Stainless Steel finish

DESIGN. SUPPLY. INSTALL.

BIKE PARKING

BIKE NETWORK®

DESIGN NETWORK ABN 41 026 835 903

p. 1300 727 563 e. parking@bicyclenetwork.com.au bikeparking.com.au

VIC Level 4, 246 Bourke Street, Melbourne VIC 3000 NSW 234 Crown Street, Darlington NSW 2010

TAS 210 Collins Street, Hobart TAS 7000 NT Suite 5, 18-20 Cavendish Street, Darwin 0800

V4.1 - 1/05/2017 Specification may be subject to change without notice. ©Bicycle Network.

D19-542318
Fixing options

In situ (Concrete footing)

200mm

100mm

120mm

Welded flange (Bolt on) using 4 (total) x fasteners

Shown with M10 x 65mm fastener

Welded flange (Security heads) using 4 (total) x fasteners

Shown with M10 x 65mm Shear Nuts

Layout guidelines

Option 1:
Footing Width 1700mm
Angle 0°

Option 2:
Footing Width 1200mm
Angle 45°

Typical Bicycle Length

1700mm
The Cradle.

Spec Sheet
No more struggling to lift your bike onto a hook... easy on both you and your bike.
**Wall Mounted.**

**Material**
- Mild Steel
- Powder coated finish (custom colours available, minimum order 20)

**Specification**

**(X) Centre Spacing**
- AUS Standard (2890.3) 500mm (1'8")
- Manufacturer Recommended 400mm (1'4")
- Portland (OR) Standard 600mm (2') or 450mm (1'6") with approval
- San Francisco (CA) Standard 400mm (1'4")

*Note – Single Level Option (No Stagger) – requires minimum ceiling of 1900mm

**AUS Standard (2890.3) 700mm (2'4")**
- Manufacturer Recommended 600mm (2')

**(Z) Bike & Rack**
- AUS Standard (2890.3) 1200mm (3'11")
- Manufacturer Recommended 1100mm (3'7")

**TOP VIEW**

**SIDE VIEW**

**FRONT VIEW**

1.500mm (4'11") (Aisle Clearance)

350mm (1'2")

1100mm (3'7")

1200mm (3'11")

350mm (1'2")

500mm (1'8")

400mm (1'4")

600mm (2') or 450mm (1'6") with approval

400mm (1'4")

500mm (1'8")

600mm (2')

700mm (2'4")

819x284
**Standard Steel Frame.**

**Material**
- Mild Steel
- Powder coated finish (custom colours available, minimum order 20)
- Steel frame implemented for area with no existing walls (Custom colours available for horizontal and vertical members)
- *Note brackets and fixings not colour treated*

**Floor Substrate**
- 100mm Concrete (3 15/16") thick and in good condition

**Specification (X) Centre Spacing**
- **AUS Standard (2890.3)**: 500mm (1'8")
- **Manufacturer Recommended**: 400mm (1'4")
- **Portland (OR)**: 600mm (2") or 450mm (1'6") with approval
- **San Francisco (CA)**: 400mm (1'4")
- *Note – Single Level Option (No Stagger) – requires minimum ceiling of 1900mm*
- **AUS Standard (2890.3)**: 700mm (2'4")
- **Manufacturer Recommended**: 600mm (2")

**Dimensions**
- **TOP VIEW**
  - Aisle Clearance: 1500mm (4'11")
  - Bike & Rack Clearance: 2250mm (7'5")
  - Aisle Clearance: 1500mm (4'11")

- **SIDE VIEW**
  - Aisle Clearance: 350mm (1'2")

- **FRONT VIEW**
  - Aisle Clearance: 350mm (1'2")
Silver Bullet.

**Material**
Mild Steel
Powder coated finish (custom colours available, minimum order 20)

**Floor Substrate**
100mm Concrete (3 15/16") thick and in good condition

**TOP VIEW**
- 1500mm (4'11") (AISLE CLEARANCE)
- 1700mm (5'7") (BIKE & RACK CLEARANCE)
- 1500mm (4'11") (AISLE CLEARANCE)

**SIDE VIEW**
- 2250mm (7'5")
- 500mm (1'8")
- 350mm (1'2")

**FRONT VIEW**
- 500mm (1'8")
- 350mm (1'2")
Cradle Warranty and Technical Data

Warranty Information

Five At Heart products come with a standard 2 year warranty, effective from the handover date.

For the warranty period, we warrant that the equipment (and any materials) we supply will comply with the relevant standards at the date of installation.

This warranty is limited and may be excluded in part or in full in light of user damage or failure to install to Five At Heart specification.

We recommend a monthly visual inspection for signs of damage or need for cleaning.

Contact Five At Heart in the event of product damage.

Fixing options / and details

Fig 1 / Concrete Wall— M10/50mm (1 15/16") galvanised sleeve anchor
Fig 2 / Masonry Block work— Bugle screw and ram plug
Fig 3 / Into Timber Nogging— Bugle screw
Fig 4 / Into Steel Framing— 22mm (7/8") 14 gauge metal tek screw

Product Weight

4kg

Substrate Requirements

- Concrete—100mm (3 15/16") thick and in good condition
- Cinder block
- Timber nogging
- Steel framing
- Timber floor— Mounting into a timber floor requires solid 70mm (2 3/4") timber for anything with an 150mm (5 7/8") base.

(any other surface must be approved by Five At Heart design team)

Maintenance Requirements

If any moving parts appear to be malfunctioning, discontinue use and contact Five At Heart.

Cleaning

Cleaning should start at the time the products are installed, ensuring that construction materials such as concrete, plaster and paint splashes are removed before they have a chance to dry. Failure to remove these materials will require aggressive cleaning in the future, that may be harmful to the products.

Wipe with a damp cloth for surface cleaning. Regular cleaning may be done with a solution of warm water and a non-abrasive, pH neutral detergent solution. Surfaces should be thoroughly rinsed after cleaning to remove all residues.

WARNING: DO NOT UNDER ANY CIRCUMSTANCES USE STRONG SOLVENTS SUCH AS THINNERS OR SOLUTIONS CONTAINING CHLORINATED HYDROCARBONS, ESTERS OR KETONES. ABRASIVE
Horizontal Member Chart

- **I** - 150MM FROM TOP OF FENCE
- **H** - 150MM FROM TOP OF FENCE UNLESS 'I' IS USED.
  IF SO, MOUNT 'H' AT THE CENTRE POINT OF 'G' & 'I'

**TABLE:**

- **BIKES ONLY = B,C,D,E,F,G**
- **TIMBER ONLY @ OR UNDER 2300H = A,D,G**
- **BIKES + TIMBER UP TO 2300H = A,B,C,D,E,F,G**
- **TIMBER ONLY @ OR ABOVE 2300H = A,D,G,I**
- **BIKES + TIMBER BETWEEN 2300H - 3200H = A,B,C,D,E,F,G,H**
- **BIKES + TIMBER OVER 3200H = A,B,C,D,E,F,G,H,I**
AM Peak Hour Future Conditions Movement Summaries

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**Movement Performance - Vehicles**

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<th>Arrival Flow</th>
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All Vehicles: 5039, 4.0, 1969, 4.0, 0.35, 9.9, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 57.9

PM Peak Hour Future Conditions Movement Summaries

<table>
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<tr>
<th>MOVEMENT SUMMARY</th>
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<tr>
<td>New Site</td>
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<tr>
<td>Site Category: (None)</td>
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<tr>
<td>Giveway / Yield (Two-Way)</td>
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**Movement Performance - Vehicles**

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<th>Flow</th>
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<th>Demand Flows</th>
<th>Arrival Flow</th>
<th>Total Flow</th>
<th>Delay</th>
<th>Average Delay</th>
<th>Level of Service</th>
<th>95% Back of Queue</th>
<th>Vehicles Distance</th>
<th>Prop. Queued</th>
<th>Effective Stop Rate</th>
<th>Avg. No. Cycles</th>
<th>Avg. Speed km/h</th>
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All Vehicles: 2684, 4.0, 2684, 4.0, 0.45, 5.6, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 57.8
## Movement Summary

**Site:** 102 (FU PM Blackburn Southbound)

**New Site Category:** (None)

**Giveway / Yield (Two-Way)**

### Movement Performance - Vehicles

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<th>Traffic</th>
<th>Demand Flow</th>
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<th>Initial Flow</th>
<th>Delay</th>
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<th>Level of Service</th>
<th>% Delay</th>
<th>Exiting Queue</th>
<th>Distance</th>
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