

# Workplace Assessment 4 – Observation Form

*(This form is for the assessor's use only)*

## Purpose

This *Observation Form* lists the practical skills that the candidate must demonstrate/perform while completing **Workplace Assessment 4**.

This form is to be completed by the candidate's assessor to document their observations on the candidate's performance in Workplace Assessment 4.

## Task Overview

For this task, the candidate is required to discuss the details of their Material Quantity Takeoff Form submission with relevant construction personnel during the planning phase of the construction project, while being observed by the assessor.

In this task, the candidate will be assessed in their:

- Practical knowledge of two-dimensional and three-dimensional drawings
- Practical skills relevant to interpreting two-dimensional and three-dimensional drawings and applying to planning

## Instructions to the Assessor

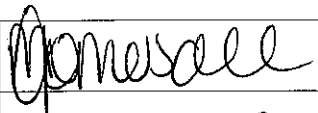
Before the assessment

- Provide the candidate with copies of the construction plans and detail drawings, for their reference.
- Organise workplace resources required for the candidate to complete this assessment.
- Contextualise the criteria in this form to ensure they reflect the actual project the candidate is undertaking as part of the assessment.
- Discuss this assessment task with the candidate, including the practical skills they need to demonstrate during this task and the criteria for satisfactorily demonstrating each skill.
- Review this form with the candidate and address any queries or concerns they may have about it.

### Candidate Assessment Briefing

|                             |         |
|-----------------------------|---------|
| Date of assessment briefing | 4/11/22 |
|-----------------------------|---------|

| The assessor confirms:                                                                                                                                       | YES/NO                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1. They have discussed with the candidate the workplace task they are required to complete for this assessment.                                              | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. The candidate understands they will be assessed while completing this workplace task, as well as any document(s) they will complete as part of this task. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. They have discussed with the candidate instructions how they are to undertake the workplace task.                                                         | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. They have provided the candidate guidance on how they can satisfactorily complete the task.                                                               | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. They have discussed with the candidate the practical skills (listed below) they are required to demonstrate while completing this task.                   | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 6. They have addressed the candidate's questions or concerns about the workplace task and the assessment process.                                            | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |

|                                                                                                                                                                                                                        |                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Assessor Declaration</b>                                                                                                                                                                                            |                                                                                   |
| By signing here, I confirm that I have observed the candidate, whose name appears above, discuss the details of their Material Quantity Takeoff Form submission during the planning phase of the construction project. |                                                                                   |
| I confirm that the information recorded on this <i>Observation Form</i> is true and accurately reflects the candidate's performance during their completion of the workplace task.                                     |                                                                                   |
| Assessor's signature                                                                                                                                                                                                   |  |
| Assessor's name                                                                                                                                                                                                        | Michelle Comerall                                                                 |
| Date signed                                                                                                                                                                                                            | 4/11/22                                                                           |

End of Workplace Assessment – Observation Form

Material Quantity Takeoff Form

INSTRUCTIONS TO THE ASSESSOR:

The details listed below are not specific to any building and construction project. Before the actual assessment, access and review the detail drawings for the building and construction project the candidate is undertaking as part of this assessment. Update/adapt/revise the form below to ensure they reflect these drawings.

|                |              |
|----------------|--------------|
| Completed by   | Anya English |
| Date completed | 04/11/2022   |

| Items                               | Size        |            | Thickness<br>(mm) | Quantity (pcs) |
|-------------------------------------|-------------|------------|-------------------|----------------|
|                                     | Height (mm) | Width (mm) |                   |                |
| Hinged Door and Gate                |             |            |                   |                |
| HD-A: External Hinged Door          | 2040        | 920        | 40mm              | 8              |
| HD-B: Internal Bathroom Hinged Door | 2040        | 920        | 35mm              | 1              |
| HG-01: Hinged Gate Type 01          | 2100        | 1125       | 75SHS             | 1              |
| HG-02: Hinged Gate Type 02          | 2100        | 1125       | 75SHS             | 1              |

## 0453 DOORS AND ACCESS PANELS

**1 GENERAL****1.1 RESPONSIBILITIES****General**

Requirement: Provide doors, frames, doorsets, security screen doors and fire-resisting doorsets, as documented.

**1.2 CROSS REFERENCES****General**

Requirement: Conform to the following:

- 0171 General requirements.
- 0455 Door hardware.

**1.3 STANDARDS****General**

Timber and composite doors: To AS 2688.

**1.4 INTERPRETATION****1.5 SUBMISSIONS****Operation and maintenance manuals**

Recommendations: Submit the manufacturer's published recommendations for service use.

**1.6 INSPECTION****Notice**

Inspection: Give notice so that inspection may be made of the following:

- Door frames in place before building in to masonry.
- Door frames installed before fixing trim.

**2 PRODUCTS****2.1 FRAMES****Steel frames**

Construction: Continuously welded from metallic-coated steel sheet sections, including accessories such as buffers, strike plates, spreaders, mortar guards, switch boxes, fixing ties or brackets, and cavity flashing with provision for fixing documented hardware and electronic security assemblies, and prefinished with a protective coating.

Base metal thickness (minimum):

- General: 1.1 mm.
- Fire-resisting doorsets: 1.5 mm.
- Security doorsets: 1.6 mm.

Metallic-coating class to AS 1397 interior: ZF100.

Metallic-coating class to AS 1397 exterior: ZF100

Finish: Grind the welds smooth, cold galvanize the welded joints and shop prime.

Hardware and accessories: Provide 4 mm backplates and lugs for fixing hardware including hinges and closers. Screw fix the hinges into tapped holes in the backplates.

**2.2 DOORS****General**

Doors: Proprietary products manufactured for interior or exterior applications and for the finish required.

**Materials**

Standards: Conform to the following:

SWIFT STORAGE, FARM STREET  
Project No.: 2256

Rev. No.: T1  
Rev. Date: 18/08/2022

Section 0453 Page 1 of 4  
Tony Madden Architects

- Decorative laminated sheets: To AS/NZS 2924.1.
- Wet process fibreboard (including hardboard): To AS/NZS 1859.4.
- Dry process fibreboard (including medium density fibreboard): To AS/NZS 1859.2.
- Particleboard: To AS/NZS 1859.1.
- Plywood and blockboard for interior use: To AS/NZS 2270.
- Plywood and blockboard for exterior use: To AS/NZS 2271.
- Seasoned cypress pine: To AS 1810.
- Timber – hardwood: To AS 2796.1.
- Timber – softwood: To AS 4785.1.

#### **Flush panel doors**

General: Provide flush panel doors of balanced construction, as documented.

Medium density fibreboard doors: Single thickness of moisture resistant general purpose medium density fibreboard with the same surface finish to both sides, for internal use.

#### **Construction**

Adhesives:

- Internal: To AS/NZS 2270.
- External: To AS/NZS 2271.

Door thickness:

- General: 35 mm.
- External doors and doors over 900 mm wide: 40 mm.

Cut-outs: If openings are required in flush panel doors (e.g. for louvres or glazing), do not make cut-outs closer than the width of the stiles at the edges of the doors.

Edge strips: Minimum thickness 10 mm. Increase overall thickness to greater than 15 mm to accommodate the full depth of the rebate in rebated doors. Apply to the external edges of door after the facings are bonded to the door framing/core and finish flush with outside surface of the facings.

Edge strip location: Fix all round

#### **Double doors**

Square edged doors: Bevel as necessary to prevent binding between the leaves.

Rebated meeting stiles: If not double acting doors, provide rebated meeting stiles or fix equivalent metal T stop to one leaf. Form rebates to suit standard rebated hardware.

#### **Tolerances**

Standard: To AS 2688 clauses 4.1 and 5.3.

### **2.3 ANCILLARY MATERIALS**

#### **Extruded gaskets and seals**

Materials: Non-cellular (solid) elastopressive seals as follows:

- Flexible polyvinyl chloride (PVC): To BS 2571, 100% solids with high consistency, ultraviolet stabilised.
- Rubber products (neoprene, ethylene propylene diene monomer (EPDM) or silicone rubber): To BS 4255-1.

#### **Flashings**

General: Corrosion resistant, compatible with the other materials in the installation, and coated with a non-staining compound where necessary.

Standard: To AS/NZS 2904.

#### **Jointing materials**

General: Compatible with each other and with the contact surfaces and non-staining to finished surfaces. Do not provide bituminous materials on absorbent surfaces.

#### **Nylon brush seals**

General: Dense nylon bristles locked into galvanized steel strips and fixed in a groove in the edge of the door or in purpose-made anodised aluminium holders fixed to the door with double sided PVC foam tape.

#### **Pile weather strips**

General: Polypropylene or equivalent pile and backing, low friction silicone treated, ultraviolet stabilised.

Standard: To AAMA 701/702.

#### **Weather bars**

General: Provide a weather bar under hinged external doors, locate under the centres of closed doors.

### **3 EXECUTION**

#### **3.1 FRAMES**

##### **General**

Frames: Install the frames as follows:

- Plumb, level, straight and true.
- Fixed or anchored to the building structure.
- Isolated from any building loads, including loads caused by structural deflection or shortening.

##### **Frame fixing**

Brackets: Metallic-coated steel:

- Width: Minimum 25 mm.
- Thickness: Minimum 1.5 mm.

Depth of fixing for building into masonry:

- Brackets: Minimum 200 mm.
- Expansion anchors: Minimum 50 mm.
- Plugs: Minimum 50 mm.
- Rods: Minimum 60 mm.

Jamb fixing centres: Maximum 600 mm.

##### **Joints**

General: Make accurately fitted joints where fasteners, pins, screws, adhesives and pressure indentations are not visible on exposed surfaces.

##### **Steel frames**

Building into masonry: Attach galvanized steel rods to jambs, build in and grout up.

Fixing to masonry openings: Build in hairpin anchors and install locking bars, or use proprietary expansion anchors and screw twice through jambs at each fixing.

Fixing to stud frame openings: Attach galvanized steel brackets to jambs and screw twice to studs at each fixing.

##### **Finishing**

Trim: Provide mouldings, architraves, reveal linings, and other internal trim using materials and finishes matching the door frames to make neat and clean junctions between the frame and the adjoining building surfaces.

##### **Seals**

General: Provide the fixings, rebates, grooves, and clearances required for installation and operation of the seals. Allow seals unwound from coils to settle before use.

##### **Weatherproofing**

Flashings and weatherings: Install flashings, weather bars, drips, storm moulds, caulking and pointing to prevent water from penetrating the building between the door frame and the building structure under the prevailing service conditions, including normal structural movement of the building.

#### **3.2 DOORS**

##### **Priming**

General: Prime timber door leaves on top and bottom edges before installation.

#### **3.3 COMPLETION**

##### **Operation**

General: Make sure moving parts operate freely and smoothly, without binding or sticking, at correct tensions or operating forces and that they are lubricated where appropriate.

**Protection**

Temporary coating: On or before the date for practical completion, or before joining up to other surfaces, remove all traces of temporary coatings used as a means of protection.

**4 SELECTIONS**

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Refer to Architectural Drawings (701)

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**0454 OVERHEAD DOORS****1 GENERAL****1.1 RESPONSIBILITIES****General**

Requirement: Provide overhead doors, as documented.

**1.2 CROSS REFERENCES****General**

Requirement: Conform to the following:

- 0171 General requirements.

**1.3 STANDARDS****General**

Garage doors and other large access doors: To AS/NZS 4505.

**1.4 SUBMISSIONS****Operation and maintenance manual**

General: Submit the manufacturer's published instructions for operation, care and maintenance.

**Shop drawings**

General: Submit shop drawings showing details of each assembly, component and connection, and information relevant to fabrication, surface treatment and installation.

**Subcontractors**

General: Submit names and contact details for proposed suppliers and installers.

**1.5 INSPECTION****Notice**

Inspection: Give notice so that inspection may be made of the following:

- Framing or structure to receive tracks and motor.
- Tracks and guides installed before doors or shutters are hung.

**2 PRODUCTS****2.1 GENERAL****Door assembly**

Requirement: Proprietary system complete with the manufacturer's standard operating system, hardware, and accessories.

**Marking and labelling**

General: To AS/NZS 4505 Section 8.

**2.2 ROLLING CURTAIN AND ROLLING SHUTTER DOORS****General**

Requirement: Materials and finishes, as documented.

**Curtain**

Rolling curtain: Continuous roll formed profiled steel.

Rolling shutter: Individual horizontal interlocking slats with interlocking hinges.

Rolling grille: Articulated curtain formed of horizontal members spaced apart and connected by vertical links.

**Bottom rail**

Requirement: Provide a stiffening member as follows:

- Interlocking with the bottom edge or lowest part of the curtain.
- Extending between the inner faces of the vertical guides.
- Formed or adapted as required for sloping floors or threshold.

- Adapted to house a locking device, if required.

#### **Wind locks**

General: Provide wind lock end clips and guides to retain the curtain in wide openings or under extreme wind conditions.

#### **Drum**

Maximum drum deflection: 1/360th of the span.

Springs: Helical torsion springs housed in the drum and arranged to counterbalance the curtain weight without exceeding the safe working stress of the spring material.

#### **Operation method**

General: Method of opening and closing the door:

- Manual:
  - . D Handle to bottom rail, pull chord with ball suspended to 2m

### **2.3 OPERATION**

#### **Manual operation**

General: Install so that the force required to operate the door manually does not exceed 220 N.

## **3 EXECUTION**

---

### **3.1 INSTALLATION**

#### **General**

Requirement: Install overhead doors in conformance with the manufacturer's recommendations and as documented.

#### **Preparation**

Substrate: Before start of installation, check the alignment of substrates or framing and adjust if required.

#### **Frames, guides and tracks**

Requirement: Install frames, guides and tracks as follows:

- Plumb, level, straight, true, and within tolerances and clearances recommended by the manufacturer.
- Fixed or anchored to the building structure using mechanical fixings suitable for the substrate and the imposed loads.
- Isolated from any building loads, including loads caused by structural deflection or shortening.

### **3.2 COMPLETION**

#### **Operation**

General: Make sure moving parts operate freely and smoothly, without binding or sticking, at correct tensions or operating forces and that they are lubricated where appropriate.

Safety: Make sure all safety features are operating.

Remote control devices: Make sure devices are programmed and operating.

#### **Protection**

Temporary coating: On or before the date for practical completion of the works, or before joining up to other surfaces, remove all traces of temporary coatings used for protection.

#### **Warranties**

General: Submit the manufacturer's published product warranties.

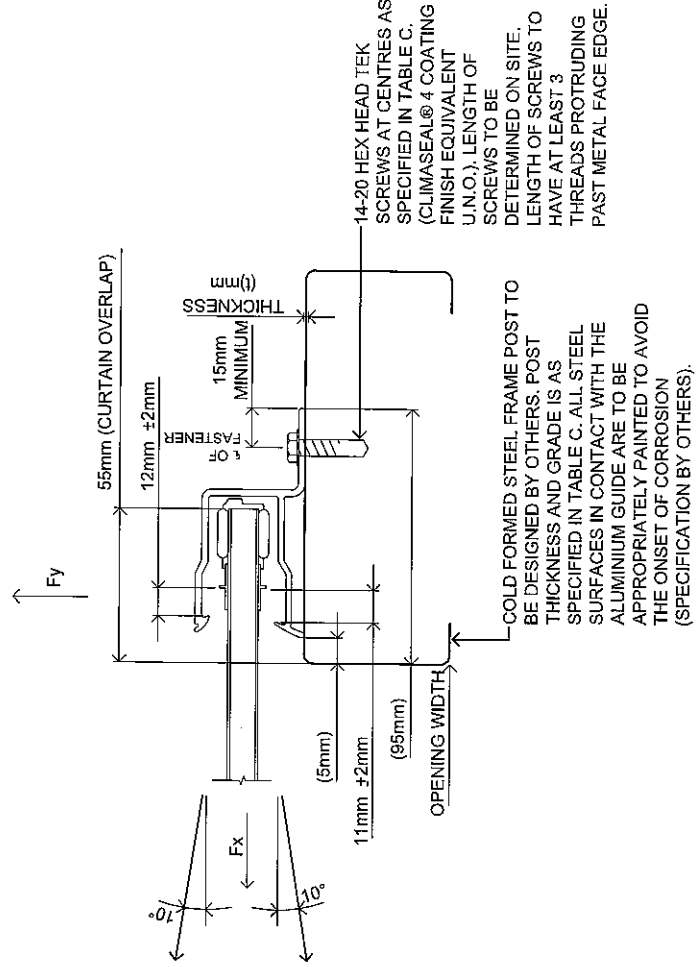
## **4 SELECTIONS**

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Refer Architectural Drawings (701)

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## SECTION 2 PLAN

SCALE = 1:2

GUIDE SUPPORTED BY COLD FORMED STEEL FRAME FOR A MAXIMUM DOOR SPAN (L) OF 3150mm IN REGION C TC2 AND UP TO A MAXIMUM ULTIMATE DESIGN WIND PRESSURE OF 3.26 KPa.

NOTE:

- THE ABOVE FIXING DETAIL HAS BEEN BASED ON A MAXIMUM DESIGN SPAN OF 3150mm.
- FIXINGS INTO COLD FORMED STEEL ABUTMENTS HAVE BEEN DESIGNED USING TECHNICAL DATA PROVIDED BY BUILD EX FASTENERS.
- STAINLESS STEEL TEK SCREWS IN LIEU OF CLIMASEAL® 4 COATED TEK SCREWS ARE TO BE USED IN HIGHLY CORROSIVE ENVIRONMENTS.
- THE FOLLOWING CODES OF PRACTICE WERE ALSO CONSIDERED IN THE DESIGN OF THE ABOVE FIXING DETAIL: AS/NZS 4600:2018 COLD FORMED STEEL STRUCTURES AS/NZS 1664.1:1997 ALUMINIUM STRUCTURES PART 1:LIMIT STATE DESIGN.

TABLE C

FASTENING SPECIFICATIONS INTO COLD FORMED STEEL ABUTMENT SUPPORTS COMPLYING WITH AS 1397-2011

| THICKNESS (t)mm | GRADE | YIELD STRENGTH | TENSILE STRENGTH | SPACING (mm) |
|-----------------|-------|----------------|------------------|--------------|
| 1mm             | G550  | 550 MPa        | 550 MPa          | 100mm        |
| 1.2mm           | G500  | 500 MPa        | 520 MPa          | 125mm        |
| 1.5mm           | G450  | 450 MPa        | 480 MPa          | 150mm        |
| 1.9mm           | G450  | 450 MPa        | 480 MPa          | 150mm        |

| ISSUE | DATE     | AMENDMENTS              |
|-------|----------|-------------------------|
| A     | 14.10.13 | ISSUED FOR CONSTRUCTION |
| H     | 01.11.13 | GENERAL REVISION        |
| J     | 02.09.14 | GENERAL REVISION        |
| K     | 24.12.14 | GENERAL REVISION        |
| L     | 14.10.21 | GENERAL REVISION        |

CLIENT  
B&D AUSTRALIA PTY LTD

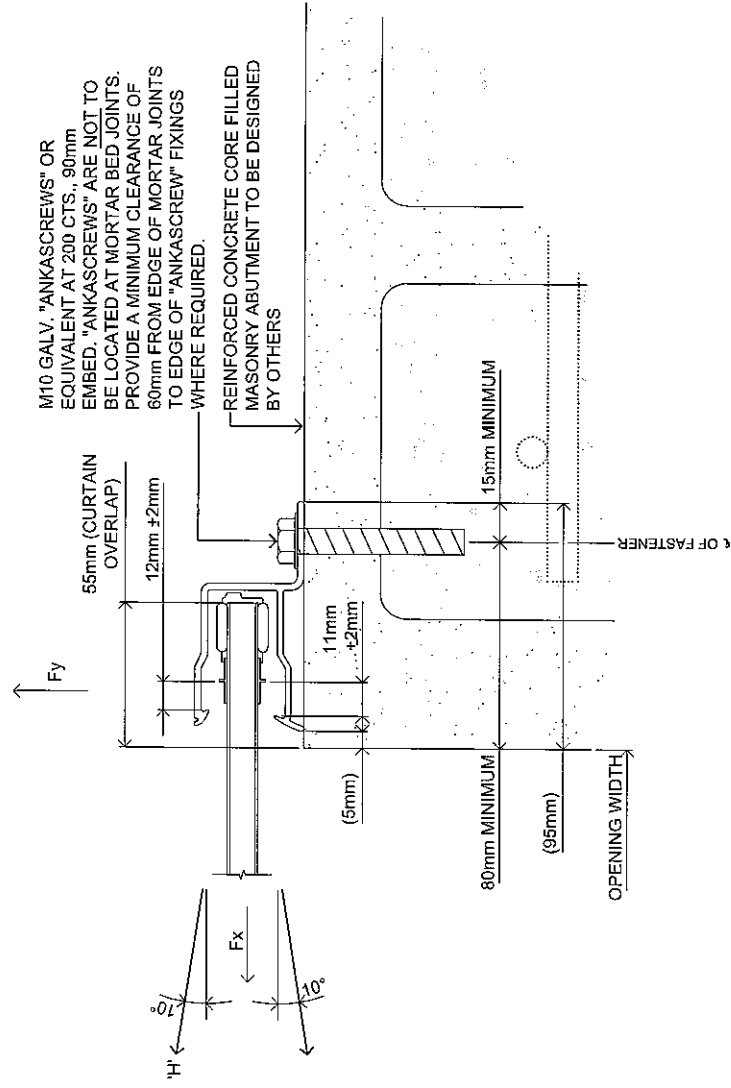
PROJECT  
B&D SERIES 1 ROLL-A-DOOR (WINDLOCKED)  
FOR USE IN WIND REGION C, TC2

| DRAWING                                                                         | SCALE | DESIGNED | CHECKED | DATE |
|---------------------------------------------------------------------------------|-------|----------|---------|------|
| SERIES 1 ROLL-A-DOOR<br>SUPPORT SECTION DETAIL                                  |       |          |         |      |
| JAMES ELLIS<br>& ASSOCIATES PTY LTD<br>Consulting Structural Engineers          |       |          |         |      |
| www.jamesellisengineers.com.au<br>PO Box 251, Padstow NSW 2211<br>Ph: 8764 1035 |       |          |         |      |

DRAWING No.  
S04 L

PROJECT No.  
2212

| DESIGNED | CHECKED | DATE |
|----------|---------|------|
|          |         |      |



## SECTION 2 PLAN

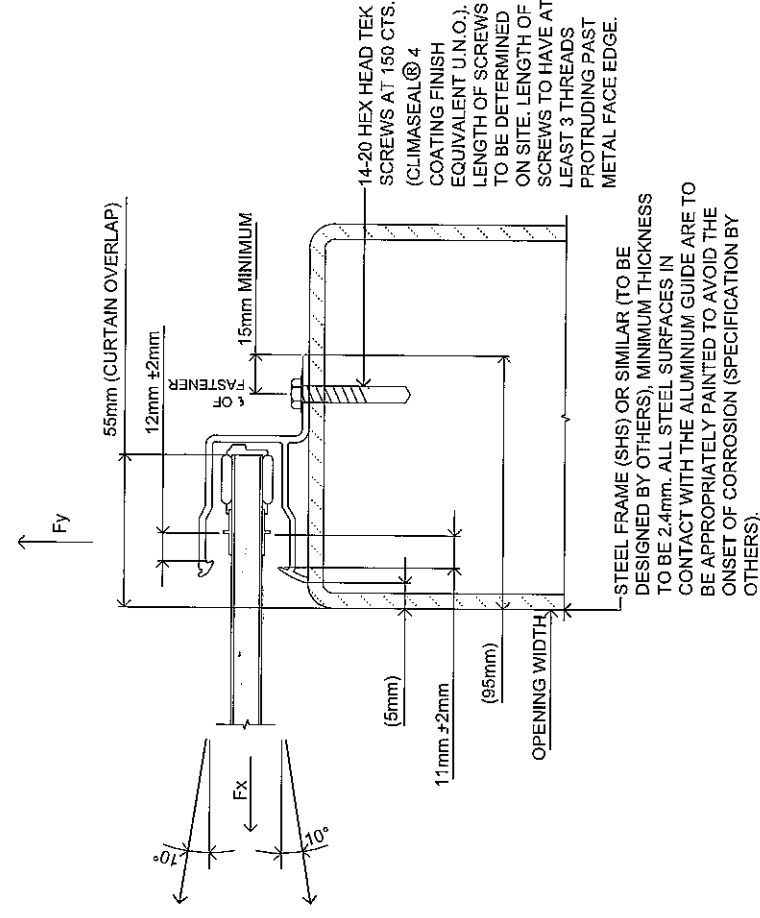
SCALE = 1:2

S01

GUIDE SUPPORTED BY REINFORCED CONCRETE CORE FILLED MASONRY UNITS FOR A MAXIMUM DOOR SPAN (L) OF 3150mm IN REGION C TC2 AND UP TO A MAXIMUM ULTIMATE DESIGN WIND PRESSURE OF 3.26 kPa.

### NOTE:

- THE ABOVE FIXING DETAIL HAS BEEN BASED ON A MAXIMUM DESIGN SPAN (L) OF 3150mm.
- FIXINGS INTO REINFORCED CONCRETE CORE FILLED BLOCK WALL ABUTMENTS HAVE BEEN DESIGNED USING THE RAMSET-SPECIFIERS RESOURCE BOOK.
- THE FOLLOWING CODES OF PRACTICE WERE ALSO CONSIDERED IN THE DESIGN OF THE ABOVE FIXING DETAIL:  
AS/NZS 1664.1:1997 ALUMINIUM STRUCTURES PART 1: LIMIT STATE DESIGN.  
AS 3700-2018 MASONRY STRUCTURES



## SECTION 2 PLAN

SCALE = 1:2

S01

GUIDE SUPPORTED BY MILD STEEL FRAME FOR A MAXIMUM DOOR SPAN (L) OF 3150mm IN REGION C TC2 AND UP TO A MAXIMUM ULTIMATE DESIGN WIND PRESSURE OF 3.26 kPa.

### NOTE:

- THE ABOVE FIXING DETAIL HAS BEEN BASED ON A MAXIMUM DESIGN SPAN (L) OF 3150mm.
- FIXINGS INTO STRUCTURAL STEEL ABUTMENTS HAVE BEEN DESIGNED USING TECHNICAL DATA PROVIDED BY BULDEX FASTENERS.
- STAINLESS STEEL TEK SCREWS IN LIEU OF CLIMASEAL® 4 COATED TEK SCREWS ARE TO BE USED IN HIGHLY CORROSIVE ENVIRONMENTS.
- THE FOLLOWING CODES OF PRACTICE WERE ALSO CONSIDERED IN THE DESIGN OF THE ABOVE FIXING DETAIL:  
AS 4100:1998 STEEL STRUCTURES.  
AS/NZS 4600:2018 COLD FORMED STEEL STRUCTURES PART 1: LIMIT STATE DESIGN.  
AS/NZS 1664.1:1997 ALUMINIUM STRUCTURES PART 1: LIMIT STATE DESIGN.

| ISSUE | DATE     | AMENDMENTS       |
|-------|----------|------------------|
| G     | 09.07.13 | GENERAL REVISION |
| H     | 01.11.13 | GENERAL REVISION |
| J     | 02.06.14 | GENERAL REVISION |
| K     | 24.12.14 | GENERAL REVISION |
| L     | 14.10.21 | GENERAL REVISION |

CLIENT  
B&D AUSTRALIA PTY LTD

PROJECT  
B&D SERIES 1 ROLL-A-DOOR (WINDLOCKED)  
FOR USE IN WIND REGION C, TC2

DRAWING  
SERIES 1 ROLL-A-DOOR  
SUPPORT SECTION

JAMES ELLIS  
& ASSOCIATES PTY LTD  
Consulting Structural Engineers

www.jamesellisengineers.com.au  
PO Box 251, Paddislow NSW 2211  
Ph: 8764 1035

| SCALE    | DESIGNED | J.E      |
|----------|----------|----------|
| DRAWN    | AAS      |          |
| CHECKED  |          |          |
| APPROVED |          |          |
| DATE     |          | Oct 2021 |

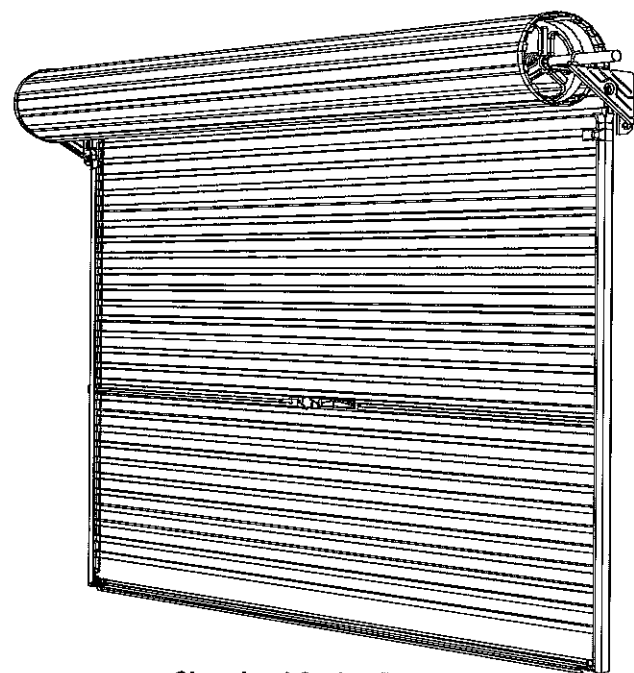
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S02 L

PROJECT No.  
2212

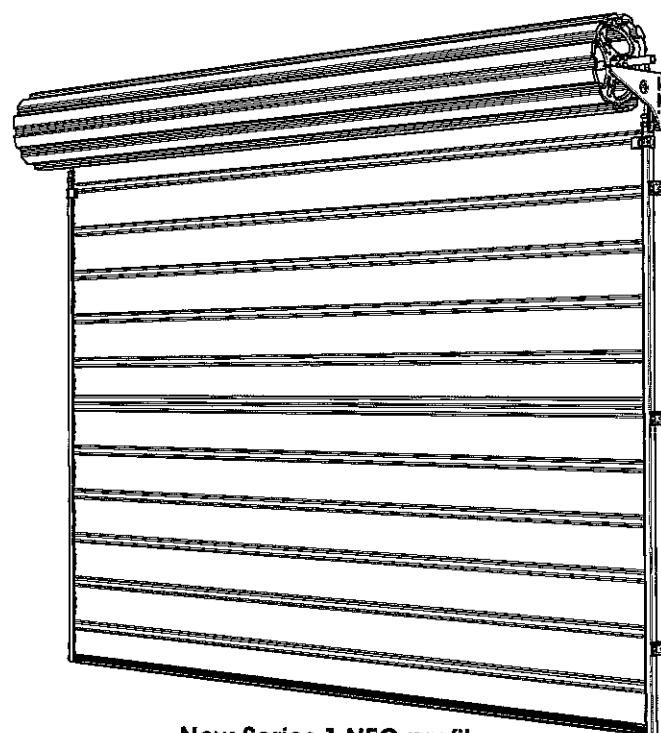
**b&d**

# Roll-A-Door®

**Series 1** - Installation instructions  
(including Windlock option)



**Standard Series 1 profile**  
(R1D, R1M, R1P)



**New Series 1 NEO profile**  
(R1N)

These instructions are intended for professional garage door installers. All references are taken from inside looking out.

DOC# 165100\_13  
PART NO# 007488  
RELEASED: 29/03/22

**b&d**

## contents

|                                               |           |
|-----------------------------------------------|-----------|
| <b>1.0 before you begin</b>                   | <b>3</b>  |
| 1.1 installation safety warnings              | 3         |
| 1.2 substrate fastener recommendations        | 4         |
| 1.3 requirements before installation          | 5         |
| 1.3.1 measurements                            | 5         |
| 1.3.2 measurements continued                  | 6         |
| 1.4 tools                                     | 7         |
| 1.5 parts checklist                           | 7         |
| 1.6 initial calculations                      | 7         |
| <b>2.0 installation</b>                       | <b>8</b>  |
| 2.1 install first bracket                     | 8         |
| 2.2 install second bracket                    | 8         |
| 2.3 place door on brackets                    | 9         |
| 2.4 position door                             | 9         |
| 2.5 tension the springs                       | 10        |
| 2.6 bottom stop hole positions                | 10        |
| 2.7 attaching stop                            | 10        |
| 2.8 guides                                    | 11        |
| 2.9 troubleshooting                           | 13        |
| 2.10 centralise the axle when door is mounted | 13        |
| 2.11 to adjust spring tension                 | 14        |
| <b>3.0 appendix</b>                           | <b>15</b> |
| 3.1 fixing alternatives                       | 15        |
| 3.2 centre lift handle                        | 15        |
| 3.3 fitting plastic lift handle (R1D only)    | 16        |
| 3.4 fitting metal lift handle (R1M only)      | 16        |
| 3.5 centre lift lock                          | 17        |
| 3.6 additional locks (R1M)                    | 18        |
| 3.7 after installation care                   | 19        |

## 1.0 before you begin

### 1.1 installation safety warnings

This B&D Roll-A-Door is designed and tested to provide security, attractive appearance and smooth, low effort operation provided it is installed and operated in strict accordance with the following safety warnings. Failure to comply with the following instructions may result in death, serious personal injury or property damage.

**NOTE:** No guarantee will be given or responsibility accepted by the manufacturers if the door is not installed as instructed.



#### WARNING!

Crush injury from unsecured door

Tension Springs



#### ELECTROCUTION!



#### LACERATION:



#### CAUTION:

Muscular strain

Fall from ladder

Hand Tools

Entanglement



#### TWO PERSON LIFT:

- Place a 2 metre exclusion zone around area under the garage opening while installing door. If sufficient area is not available DO NOT install door.
- Do not move under a door while it is on the door support (or lifting device).
- Follow the installation instructions.
- Fit door support (or lifting device) snugly under door before lifting.
- Ensure door support (or lifting device) is on flat ground.
- Ensure the door is immediately fastened to the bracket with the "U" Bolt.
- Ensure no-one walks under a door sitting on brackets.
- Ensure door is correctly secured at all times when making adjustments.
- Ensure the correct length pipe wrench is utilised.
- Ensure that pipe wrench is fitted correctly to the axle and if it is gripped onto the axle do not underestimate the tension in the spring when undoing the clamps.
- Ensure correct bolts are tightened or loosened to ensure there is no release or controlled release of energy from the spring through the pipe wrench.
- Keep head clear of the pipe wrench at all times.
- Check risk assessment for any highlighted electrical power concerns.
- Ensure power source is isolated prior to commencement of job.
- Turn off electricity to site when necessary.
- Wear rubber soled footwear.
- Wear appropriate PPE (Dyneema cut off gloves) and keep hands well clear of pinch points.
- Follow instructions explicitly, particularly for the installation of some parts of the doors, as the unrolled cut out edges presents a very sharp edge.
- Practice correct lifting techniques when required to lift the door.
- Use mechanical aids such as lifting devices, forklift and cranes where possible.
- Avoid twisting.
- Use correct technique of knotted rope installation aids.
- Ensure ladder is the correct type for job.
- Ensure ladder is on flat firm ground that will take the weight without the legs sinking.
- Ensure user has 3 points of contact while on ladder.
- Wear appropriate PPE and utilise operators manual of all tools.
- Use appropriate noise/hearing protection in the form of ear plugs or ear muffs.
- Ensure appropriate fire protection available and housekeeping to ensure that flammable liquids or materials are removed from the area of work.
- Keep hands and loose clothing clear of moving door and guides at all times.
- When a mechanical aid is not used this product requires a two person lift to raise onto the brackets. Use proper techniques and equipment to lift the door from the trailer and up onto brackets.

1.2 substrate fastener recommendations

**WARNING!** Coach bolts/screws are NOT suitable for windrated doors. Refer to High Wind drawings on the B&D Website for Region A&B or Region C.

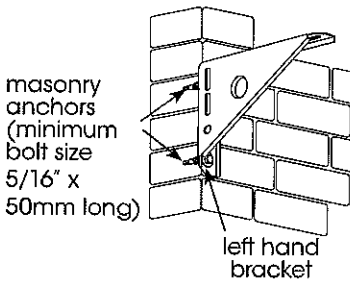
**WARNING!** The installer must select and use fasteners appropriate to the material into which they are being fixed.

important notes

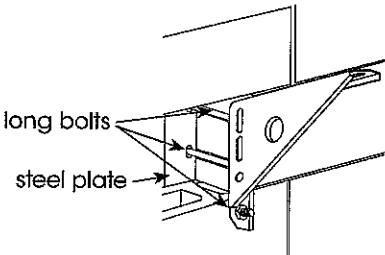
- a) For installation to materials not covered in the chart, the installer should seek expert advice from a qualified builder.
- b) Minimum length of fastener does not exclude use of longer lengths. Decision must be made by fitter to ensure adequate strength.
- c) Recommendations for old materials or materials not in good condition are not included. If in doubt about the strength of the material seek specialist advice.
- d) Fasteners for brackets in masonry should be at least 5/16" x 2.5" long or metric equivalent.
- e) Use the washers supplied in the parts bag to all fixings.

| material                                                    | fastener type(s)                                                         | diameter or type | length of fastener (see note) | BKT | GUIDE |
|-------------------------------------------------------------|--------------------------------------------------------------------------|------------------|-------------------------------|-----|-------|
| New Solid Brick                                             | Coach Bolts (Hex Lag Screw) and washers - combined with wall plugs       | 5/16" x          | 1½"                           |     | •     |
|                                                             |                                                                          | 3/8" x           | 2"                            | •   | •     |
|                                                             | Macplugs (wall plugs) to suit above                                      | 5/16" x          | 50mm                          |     | •     |
|                                                             |                                                                          | 3/8" x           | 60mm                          | •   | •     |
|                                                             | HLC Sleeve Anchors (Dyna Bolts) with washers                             | 12mm x           | 55mm                          | •   |       |
| New Hollow Brick                                            | HRD-VGK or HGK-VGS (Hex Head) Frame Anchors with washers                 | 10mm x           | 60mm                          | •   | •     |
| New Solid Concrete                                          | Coach Bolts (Hex Lag Screw) and washers - combined with wall plugs       | 5/16" x          | 1½"                           |     | •     |
|                                                             |                                                                          | 3/8" x           | 2"                            | •   | •     |
|                                                             | Macplugs (wall plugs) to suit above                                      | 5/16" x          | 50mm                          |     | •     |
|                                                             |                                                                          | 3/8" x           | 60mm                          | •   | •     |
|                                                             | HLC Sleeve Anchors (Dyna Bolts) with washers                             | 12mm x           | 55mm                          | •   |       |
| Steel Framing e.g. BHP Framing (with rear access)           | Hex Head Bolt Zinc Plated, Hexagon Nuts Zinc Plated, Washers Zinc Plated | 5/16" x          | 1"                            |     | •     |
|                                                             |                                                                          | 3/8" x           | 1"                            | •   | •     |
|                                                             |                                                                          | 10mm x           | 25mm                          | •   | •     |
|                                                             |                                                                          | 12mm x           | 25mm                          | •   |       |
| Heavy Gauge Steel                                           | Hex Head Tek and washers                                                 | 14-20 x          | 22mm                          | •   | •     |
| Light Steel Framing e.g. BHP House Framing (no rear access) | Heavy Duty Kap Toggle                                                    | 10mm x           | 100mm                         | •   | •     |
|                                                             |                                                                          | 12mm x           | 100mm                         | •   |       |
|                                                             | Hex Head Tek and washers                                                 | 6-10 x           | 20mm                          |     | •     |
| New Timber                                                  | Coach Bolts (Hex Lag Screw) and washers                                  | 5/16" x          | 1½"                           |     | •     |
|                                                             |                                                                          | 3/8" x           | 2"                            | •   | •     |
|                                                             | Hex Head Tek and washers                                                 | 14-10 x          | 50mm                          | •   | •     |

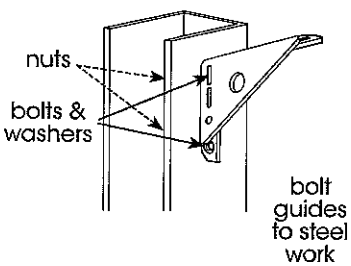
BRICK CONSTRUCTION



MASONARY BLOCK CONSTRUCTION



STEEL CONSTRUCTION



**WARNING!** Masonary blockwork should be properly filled and reinforced if brackets are to be mounted directly to blockwork with masonry anchors. Where the blockwork is not solidly filled but structurally sound, long bolts should be passed through the blockwork using suitable steel plates under bolt heads. Special consideration should be given to brick type and construction of wall, to ensure satisfactory fixing.

1.3 requirements before installation

- 
- WARNING!** If you need to remove an old door prior to installing a B&D door ensure to:

  - Roll the door up and place a secure tie around the middle
  - Place door support on flat ground
  - Fit door support snugly under door before loosening the brackets or locating U bolts.
  - Slowly undo bolts to release the spring tension and the door from the brackets.
  - Slowly lift the door from the brackets keeping it balanced as it is lowered to the ground.

**mounting** - The door is designed to be mounted behind the opening.

**obstructions** - Ensure that the surface where the door will be fitted is flush and smooth, and the area behind the opening is free from any protrusions.

**structural suitability** - Ensure the opening is strong enough to support the door. If unsure, consult a builder.

**level and plumb** - The door must be installed in an absolutely level position, if opening is not level and square, appearance and/or sideroom requirements will be affected. The floor should be level or recessed across the opening to avoid gaps.

1.3.1 measurements

**opening width** - As the standard door overlaps each side by 30mm or more, the door should be 60mm wider than the opening. A wider door like NEO R1N (40mm each side overlap, 80mm wider than opening) can be fitted as long as additional sideroom and fixing is available. **(Fig 1.3.1a)** Max drive through heights for each door height are listed in **Fig 1.3.1b**. Wind-Locked doors require additional overlap dependent on the substrate, consult the B&D High Wind Certification Drawings for more detail.

**opening height** - The door opening height (or drive through clearance) indicates the distance between the ground and rubber seal at the bottom of the door, with door fully open. For doors with a handle, the bottom rail is recommended to hang a minimum of **80mm below** the lintel. **(Fig 1.3.2)**

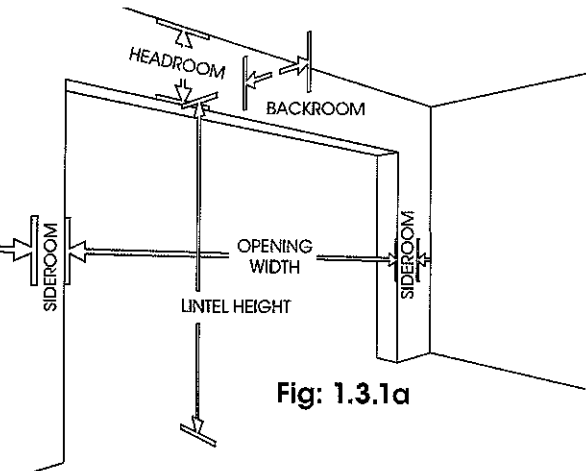


Fig: 1.3.1a

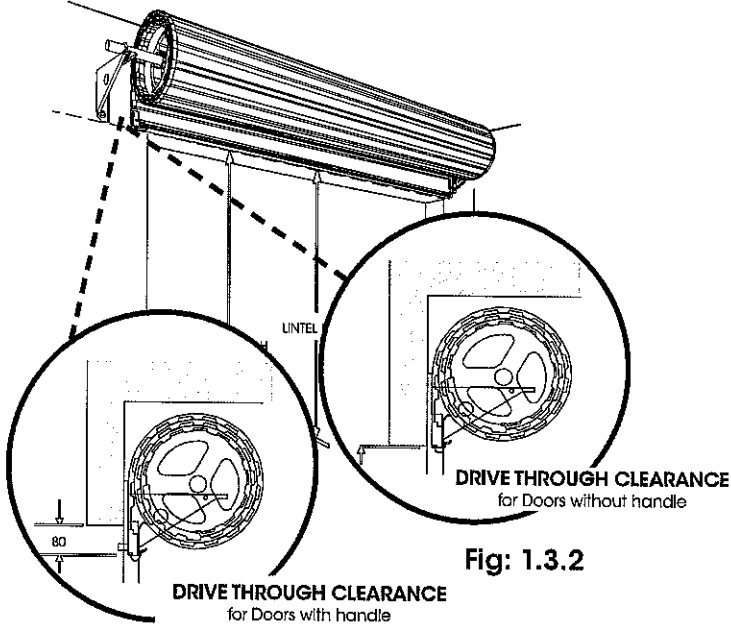


Fig: 1.3.2

Fig: 1.3.1b

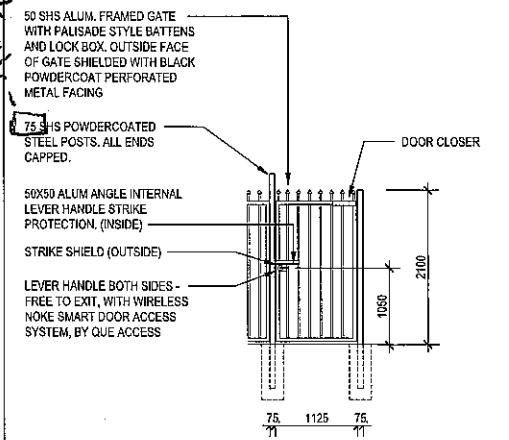
| Description                           | Neo         |                  | Standard Drive |                  | Locking Drive |                  | Wind Warehouse |                  |
|---------------------------------------|-------------|------------------|----------------|------------------|---------------|------------------|----------------|------------------|
| Model code                            | R1N         |                  | R1D            |                  | R1P           |                  | R1M            |                  |
| Door & Max Drive Through Heights (mm) | Door Height | Max Drive Height | Door Height    | Max Drive Height | Door Height   | Max Drive Height | Door Height    | Max Drive Height |
|                                       | -           | -                | 1250           | 1250             | 1250          | 1250             | 1250           | 1250             |
|                                       | 2100        | 2100             | 2100           | 2100             | 2100          | 2100             | 2100           | 2100             |
|                                       | 2400        | 2400             | 2400           | 2400             | 2400          | 2400             | 2400           | 2400             |
|                                       | 2700        | 2700             | 2700           | 2700             | 2700          | 2700             | 2700           | 2700             |
|                                       | 3000        | 3000             | 3000           | 3000             | 3000          | 3000             | 3000           | 3000             |
| Max Door Width (including overlap)    | 3150mm      |                  | 3150mm         |                  | 3150mm        |                  | 3150mm         |                  |

| HINGED DOOR - DOOR SCHEDULE |                                                 |     |                                             |                                                            |                                                 |                  |                          |                                                              |                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------|-----|---------------------------------------------|------------------------------------------------------------|-------------------------------------------------|------------------|--------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE                        | DESCRIPTION                                     | QTY | DOOR TYPE                                   | DOOR FINISH - EXTERNAL                                     | DOOR FINISH - INTERNAL                          | FRAME            | FRAME FINISH             | SEALS                                                        | LOCK                                                                                                                                                                                                         | HARDWARE                                                                                                                                                                                                                                                                      |
| HD-A                        | HINGED DOOR TYPE A - 2040 x 920 HIGH - EXTERNAL | 8   | METAL CLAD - HINGED SOLID CORE DOUBLE DOOR  | PREFINISHED COLORBOND BASALT METAL FACING AND EDGE CAPPING | STANDARD ZINC METAL FACING - PAINT - COLOUR RED | STEEL DOOR FRAME | PAINT - COLORBOND BASALT | RAVEN RP99SI DOOR BOTTOM SEAL, RAVEN RP37 MEETING STILE SEAL | ELECTRONIC LOCK WITH WIRED "NOKE VOLT" ELECTRONIC DOOR CONTROL BY QUE ACCESS, LEVER HANDLE BOTH SIDES. ALWAYS FREE TO EXIT, PROVIDE A REQUEST TO EXIT PUSH BUTTON (MIN. 500mm CLEAR FROM AN INTERNAL CORNER) | 2x DOOR CLOSERS, primary leaf- STRIKE SHIELD, WIRED SMART ACCESS "NOKE VOLT" ELECTRONIC DOOR CONTROL WITH CABLE TRANSFER DEVICE AND A SMART ACCESS ELECTRONIC MAGNETIC DOOR HOLD OPEN DEVICE, secondary leaf 1x DOOR STOP, TOP BOLT AND BOTTOM BOLT WITH FLOOR FERRULE TUBES. |
| HD-B                        | HINGED DOOR TYPE B - 2040 x 920 - INTERNAL      | 1   | FLUSH PANEL - HINGED SOLID CORE SINGLE DOOR | PAINT - COLORBOND BASALT                                   | PAINT - COLORBOND BASALT                        | STEEL DOOR FRAME | PAINT - COLORBOND BASALT | NONE                                                         | LEVER HANDLE, PRIVACY LATCH WITH INDICATOR BOLT                                                                                                                                                              | DOOR CLOSER, DOOR STOP, (BRAILLE & TACTILE SIGNAGE REFER TO SPEC.)                                                                                                                                                                                                            |

| HINGED GATE SCHEDULE |                                   |     |                                                                                                                                        |                  |                                                   |                  |       |                                                                                                    |                            |
|----------------------|-----------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------|------------------|-------|----------------------------------------------------------------------------------------------------|----------------------------|
| TYPE                 | DESCRIPTION                       | QTY | DOOR TYPE                                                                                                                              | DOOR FINISH      | FRAME                                             | FRAME FINISH     | SEALS | LOCK                                                                                               | HARDWARE                   |
| HG-01                | HINGED GATE 01 - FARM STREET      | 1   | 50 SHS ALUM. FRAMED GATE WITH PALISADE STYLE BATTENS, LOCK BOX AND INTERNAL LEVER HANDLE STRIKE PROTECTION. REFER TO ELEVATION DETAIL. | BLACK POWDERCOAT | 75 SHS POWDERCOATED STEEL POSTS, ALL ENDS CAPPED. | BLACK POWDERCOAT | NONE  | LEVER HANDLE BOTH SIDES - FREE TO EXIT, WITH WIRELESS NOKE SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | DOOR CLOSER, STRIKE SHIELD |
| HG-02                | HINGED GATE 02 - ALEXANDRA STREET | 1   | 50 SHS ALUM. FRAMED GATE WITH PALISADE STYLE BATTENS, LOCK BOX AND INTERNAL LEVER HANDLE STRIKE PROTECTION. REFER TO ELEVATION DETAIL. | BLACK POWDERCOAT | 75 SHS POWDERCOATED STEEL POSTS, ALL ENDS CAPPED. | BLACK POWDERCOAT | NONE  | LEVER HANDLE BOTH SIDES - FREE TO EXIT, WITH WIRELESS NOKE SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | DOOR CLOSER, STRIKE SHIELD |

| ROLLER DOOR SCHEDULE |                                                       |     |                                                                      |                  |                                         |                                                                                |                                                                 |  |  |
|----------------------|-------------------------------------------------------|-----|----------------------------------------------------------------------|------------------|-----------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|--|--|
| TYPE                 | DESCRIPTION                                           | QTY | ROLLER DOOR TYPE                                                     | DOOR FINISH      | SEALS                                   | LOCK                                                                           | HARDWARE                                                        |  |  |
| RD-A                 | ROLLER DOOR TYPE A - 2500 WIDE X 2400 HIGH - EXTERNAL | 63  | B&D ROLL-A-DOOR SERIES 1 HIGH WIND DOOR WITH REGION C WINDLOCK GUIDE | COLORBOND BASALT | ALUMINIUM BOTTOM RAIL WITH WEATHER SEAL | ELECTRONIC LOCK WITH WIRED "NOKE VOLT" SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | "D" HANDLE TO BOTTOM RAIL, PULL CHORD WITH BALL SUSPENDED TO 2m |  |  |
| RD-B                 | ROLLER DOOR TYPE B - 3000 WIDE X 2700 HIGH - EXTERNAL | 17  | B&D ROLL-A-DOOR SERIES 1 HIGH WIND DOOR WITH REGION C WINDLOCK GUIDE | COLORBOND BASALT | ALUMINIUM BOTTOM RAIL WITH WEATHER SEAL | ELECTRONIC LOCK WITH WIRED "NOKE VOLT" SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | "D" HANDLE TO BOTTOM RAIL, PULL CHORD WITH BALL SUSPENDED TO 2m |  |  |
| RD-C                 | ROLLER DOOR TYPE C - 1000 WIDE X 2400 HIGH - INTERNAL | 26  | B&D ROLL-A-DOOR SERIES 1 WITH STANDARD GUIDE (INTERNAL ROLLER DOOR)  | COLORBOND BASALT | ALUMINIUM BOTTOM RAIL WITH WEATHER SEAL | ELECTRONIC LOCK WITH WIRED "NOKE VOLT" SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | "D" HANDLE TO BOTTOM RAIL, PULL CHORD WITH BALL SUSPENDED TO 2m |  |  |
| RD-D                 | ROLLER DOOR TYPE D - 2500 WIDE X 2400 HIGH - INTERNAL | 7   | B&D ROLL-A-DOOR SERIES 1 WITH STANDARD GUIDE (INTERNAL ROLLER DOOR)  | COLORBOND BASALT | ALUMINIUM BOTTOM RAIL WITH WEATHER SEAL | ELECTRONIC LOCK WITH WIRED "NOKE VOLT" SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | "D" HANDLE TO BOTTOM RAIL, PULL CHORD WITH BALL SUSPENDED TO 2m |  |  |
| RD-E                 | ROLLER DOOR TYPE E - 2500 WIDE X 2400 HIGH - EXTERNAL | 5   | B&D ROLL-A-DOOR SERIES 1 HIGH WIND DOOR WITH REGION C WINDLOCK GUIDE | COLORBOND BASALT | ALUMINIUM BOTTOM RAIL WITH WEATHER SEAL | ELECTRONIC LOCK WITH WIRED "NOKE VOLT" SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | "D" HANDLE TO BOTTOM RAIL, PULL CHORD WITH BALL SUSPENDED TO 2m |  |  |
| RD-F                 | ROLLER DOOR TYPE F - 2500 WIDE X 2400 HIGH - EXTERNAL | 1   | B&D ROLL-A-DOOR SERIES 1 HIGH WIND DOOR WITH REGION C WINDLOCK GUIDE | COLORBOND BASALT | ALUMINIUM BOTTOM RAIL WITH WEATHER SEAL | ELECTRONIC LOCK WITH WIRED "NOKE VOLT" SMART DOOR ACCESS SYSTEM, BY QUE ACCESS | "D" HANDLE TO BOTTOM RAIL, PULL CHORD WITH BALL SUSPENDED TO 2m |  |  |

NOTE:  
 • SCHEDULED ROLLER DOOR WIDTHS EQUALS OPENING WIDTH.  
 • SCHEDULED ROLLER DOOR HEIGHTS ARE MEASURED FROM FLOOR LEVEL AND DOES NOT INCLUDE THE ADDITIONAL EXTERNAL DOOR THRESHOLD SETDOWN HEIGHT.

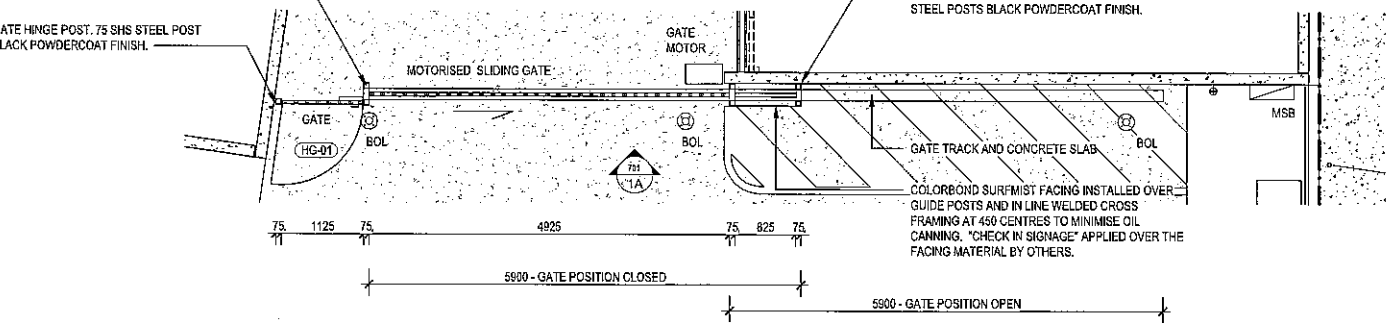


3 (HG) HINGED GATE ELEVATION  
1:50 @ A1

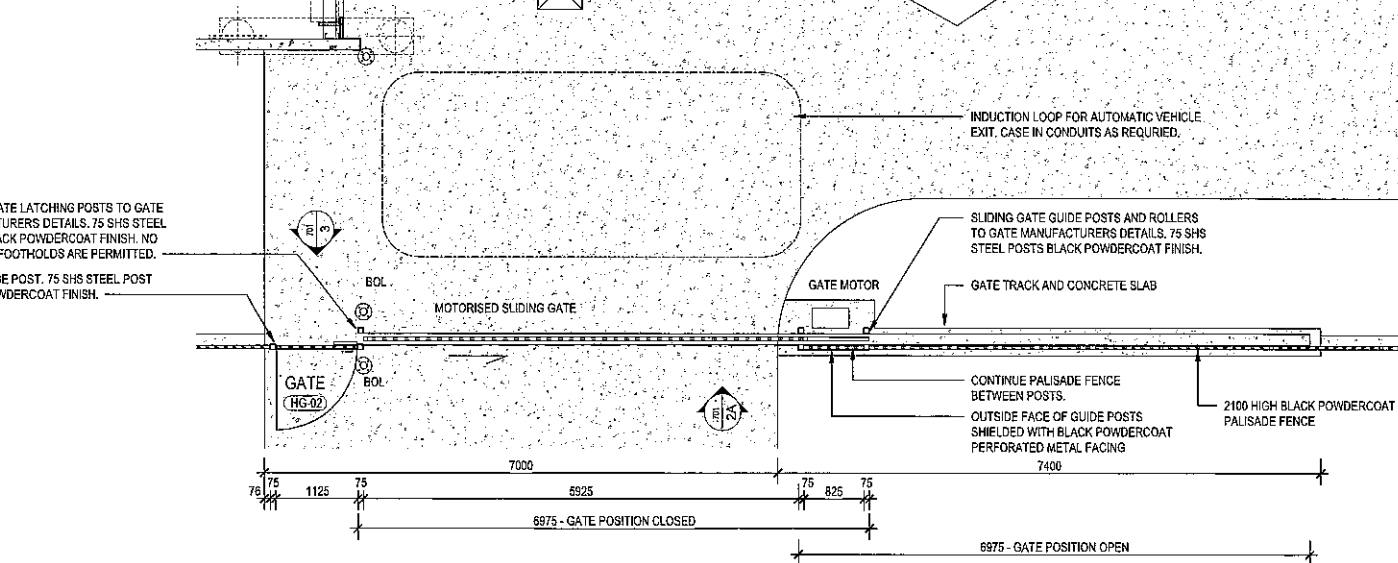
These are all the items

specific sizes of each item  
 standard door thickness applies - in specifications  
 0453 doors and access panels

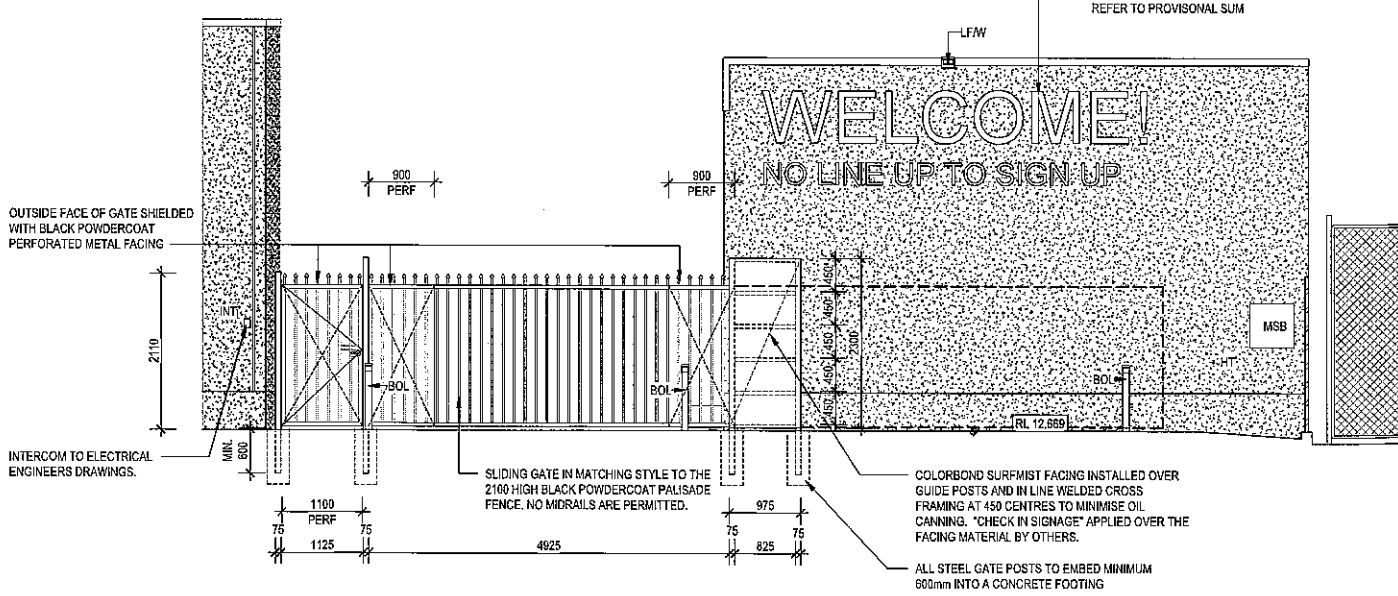
1 GATE DETAIL PLAN - FARM STREET  
1:50 @ A1



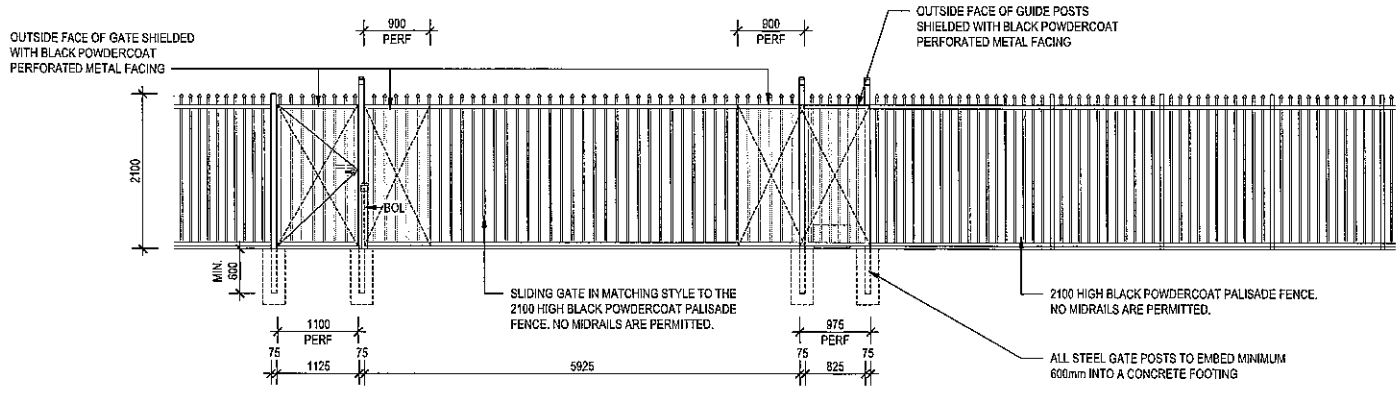
2 GATE DETAIL PLAN - ALEXANDRA STREET  
1:50 @ A1



1A GATE ELEVATION - FARM STREET  
1:50 @ A1



2A GATE ELEVATION - ALEXANDRA STREET  
1:50 @ A1



- GENERAL NOTES**
- CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK.
  - ALL WORKS TO BE CARRIED OUT TO LOCAL AUTHORITY REQUIREMENTS.
  - THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH SPECIFICATION AND ASSOCIATED NOTES.
  - DO NOT SCALE THIS DRAWING. IF IN DOUBT, ASK.

- LEGEND**
- (E) DENOTES EXISTING
  - BOL BOLLARD, REFER 0181 SUNDRY ITEMS.
  - HT HOSE TAP
  - INT INTERCOM
  - LFW LIGHT FITTING/WALL MOUNTED, REFER ELEC DWGS
  - MSB MAIN SWITCHBOARD, REFER ELEC DWGS

- DOOR NOTES:**
- REFER TO PLANS FOR DOOR SWING DIRECTION
  - ALL LEVER HANDLE DOOR FURNITURE TO BE 1050mm AFL
- HINGES:**
- ALL HINGED DOORS TO HAVE 4 No. 100mm HINGES.

scale @A1  
1:50  
0 1m 2m 1.50

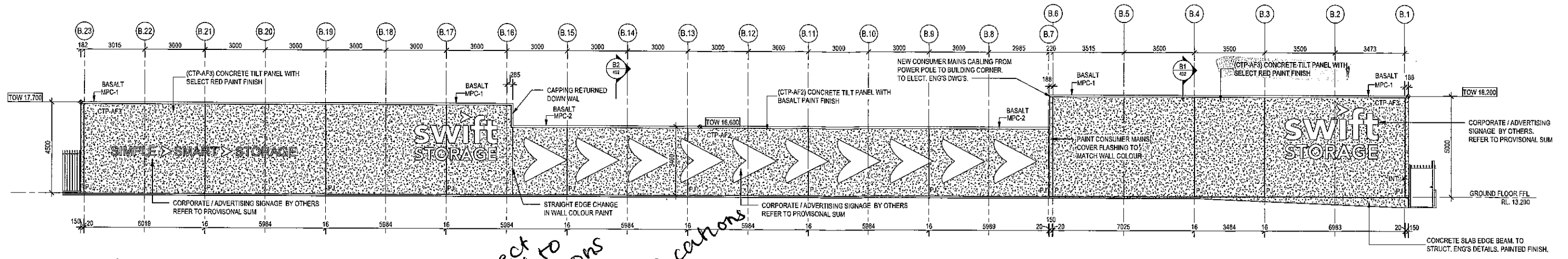
scale @A3  
1:100

**TENDER ISSUE**

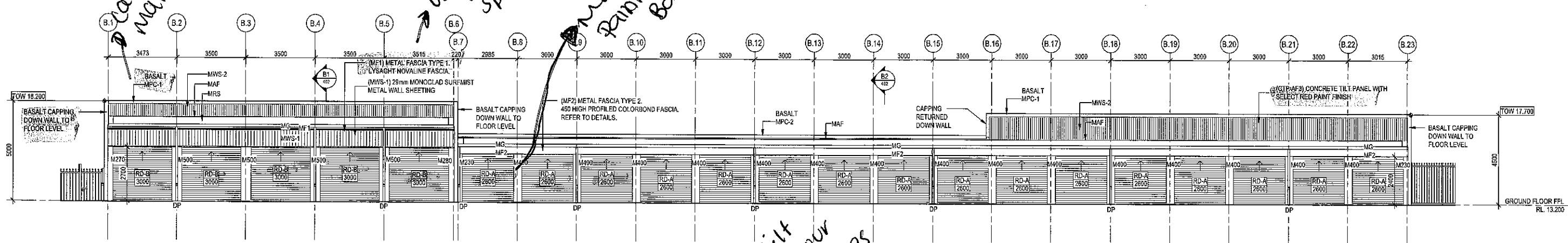
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|------|-------------------|-----------|------------|
| P1   | PRELIMINARY ISSUE | SR        | 28/05/2022 |
| P2   | PRELIMINARY ISSUE | SR        | 21/07/2022 |
| P3   | PRELIMINARY ISSUE | SR        | 08/08/2022 |
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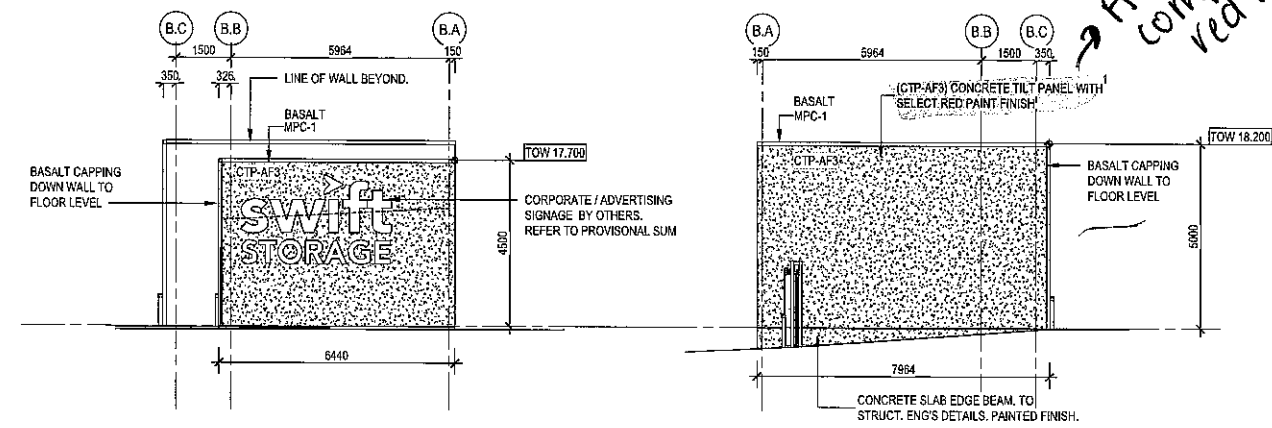
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|----------------------------------------------------|------------------------------------------------------------|
| client:<br>SS PROPERTY TRUST                       | project:<br>SWIFT STORAGE - FARM STREET KAWANA ROCKHAMPTON |
| location:<br>146 - 152 FARM STREET KAWANA QLD 4701 | drawing title:<br>DOOR & GATE SCHEDULE                     |
| job no:<br>2256                                    | drawing no:<br>701                                         |
| rev:<br>T1                                         |                                                            |



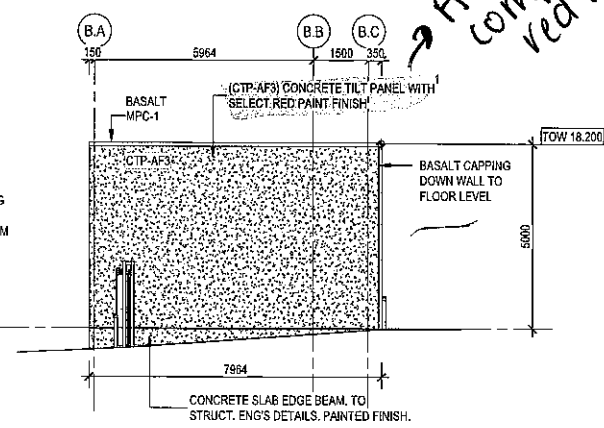
1 BUILDING B - NORTH ELEVATION  
1:100 @ A1



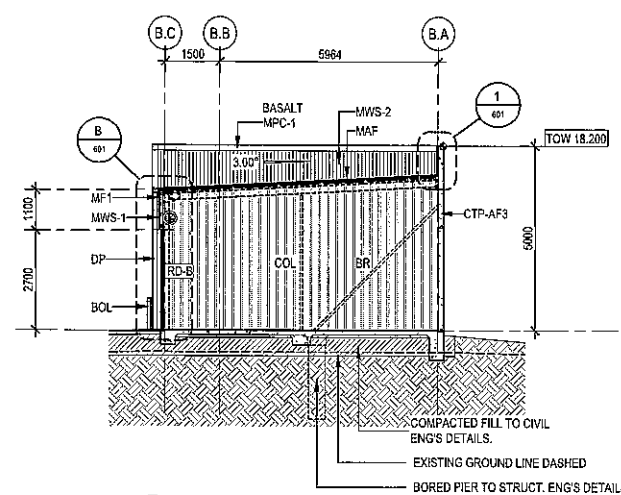
2 BUILDING B - SOUTH ELEVATION  
1:100 @ A1



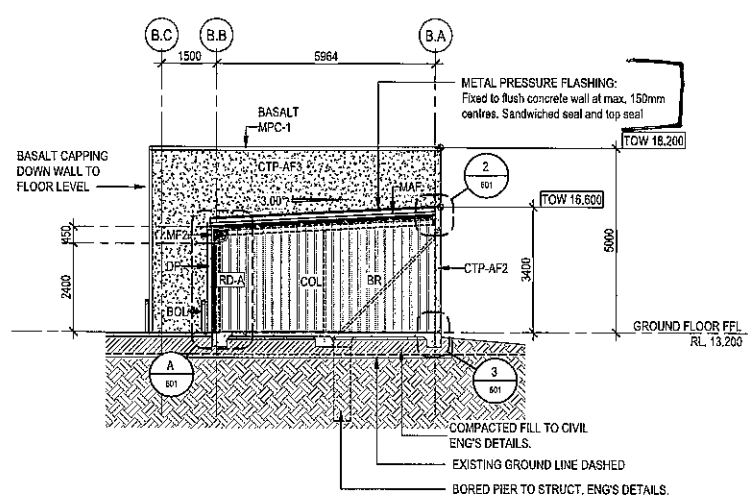
3 BUILDING B - EAST ELEVATION  
1:100 @ A1



4 BUILDING B - WEST ELEVATION  
1:100 @ A1



B1 BUILDING B SECTION B1  
1:100 @ A1



B2 BUILDING B SECTION B2  
1:100 @ A1

**GENERAL NOTES**

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18/08/2022 1:50 PM PJA  
Autodesk Revit (2256) - Swift Storage (2256) - Swift Storage - Farm Street

| LEGEND  |                                                                          |       |                                                      |
|---------|--------------------------------------------------------------------------|-------|------------------------------------------------------|
| (E)     | DENOTES EXISTING                                                         |       |                                                      |
| BOL     | BOLLARD, REFER 0191 SUNDRY ITEMS.                                        | M500  | 500 MILLION- TO ENGINEERS DWG'S                      |
| BR      | STEEL BRACING, TO STRUCT. ENG'S DETAILS                                  | MAF   | METAL APRON FLASHING, REFER 0421 ROOFING             |
| COL     | COLUMN- TO ENGINEERS DWG'S                                               | MF1   | METAL FASCIA TYPE 1- LYSAGHT NOVALINE                |
| CTP-AF2 | CONCRETE TILT-UP PANEL- TO ENGINEERS DWG'S, APPLIED BASALT PAINT FINISH. | MF2   | METAL FASCIA TYPE 2- 450 HIGH PROFILED COLORBOND     |
| CTP-AF3 | CONCRETE TILT-UP PANEL- TO ENGINEERS DWG'S, APPLIED RED PAINT FINISH.    | MG    | METAL GUTTER- SLOTTED LYSAGHT EMLINE                 |
| DP      | DOWNPIPE, REFER HYDRA DRAWINGS.                                          | MPC-1 | METAL PARAPET CAPPING-TYPE 1, REFER 0421 ROOFING     |
| INT     | INTERCOM                                                                 | MPC-2 | METAL PARAPET CAPPING-TYPE 2, REFER 0421 ROOFING     |
| M230    | 230 MILLION- TO ENGINEERS DWG'S                                          | MRS   | METAL ROOF SHEETING- MONOCLAD                        |
| M270    | 270 MILLION- TO ENGINEERS DWG'S                                          | MWS-1 | METAL WALL SHEETING- TYPE 1-29mm MONOCLAD SURFMIST   |
| M280    | 280 MILLION- TO ENGINEERS DWG'S                                          | MWS-2 | METAL WALL SHEETING- TYPE 2-16mm CORRUGATED SURFMIST |
| M400    | 400 MILLION- TO ENGINEERS DWG'S                                          | PJ    | TILT PANEL JOINT- TO ENGINEERS DWG'S                 |

| TENDER ISSUE |                   |           |            |
|--------------|-------------------|-----------|------------|
| REV.         | DESCRIPTION       | ISSUED BY | DATE       |
| P4           | PRELIMINARY ISSUE | NR        | 28/05/2022 |
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| client:<br>SS PROPERTY TRUST                          |                    | project:<br>SWIFT STORAGE - FARM STREET<br>KAWANA ROCKHAMPTON |  |
| location:<br>146 - 152 FARM STREET<br>KAWANA QLD 4701 |                    | drawing title:<br>ELEVATIONS & SECTIONS -<br>BUILDING B       |  |
| job no:<br>2256                                       | drawing no:<br>402 | rev:<br>T1                                                    |  |