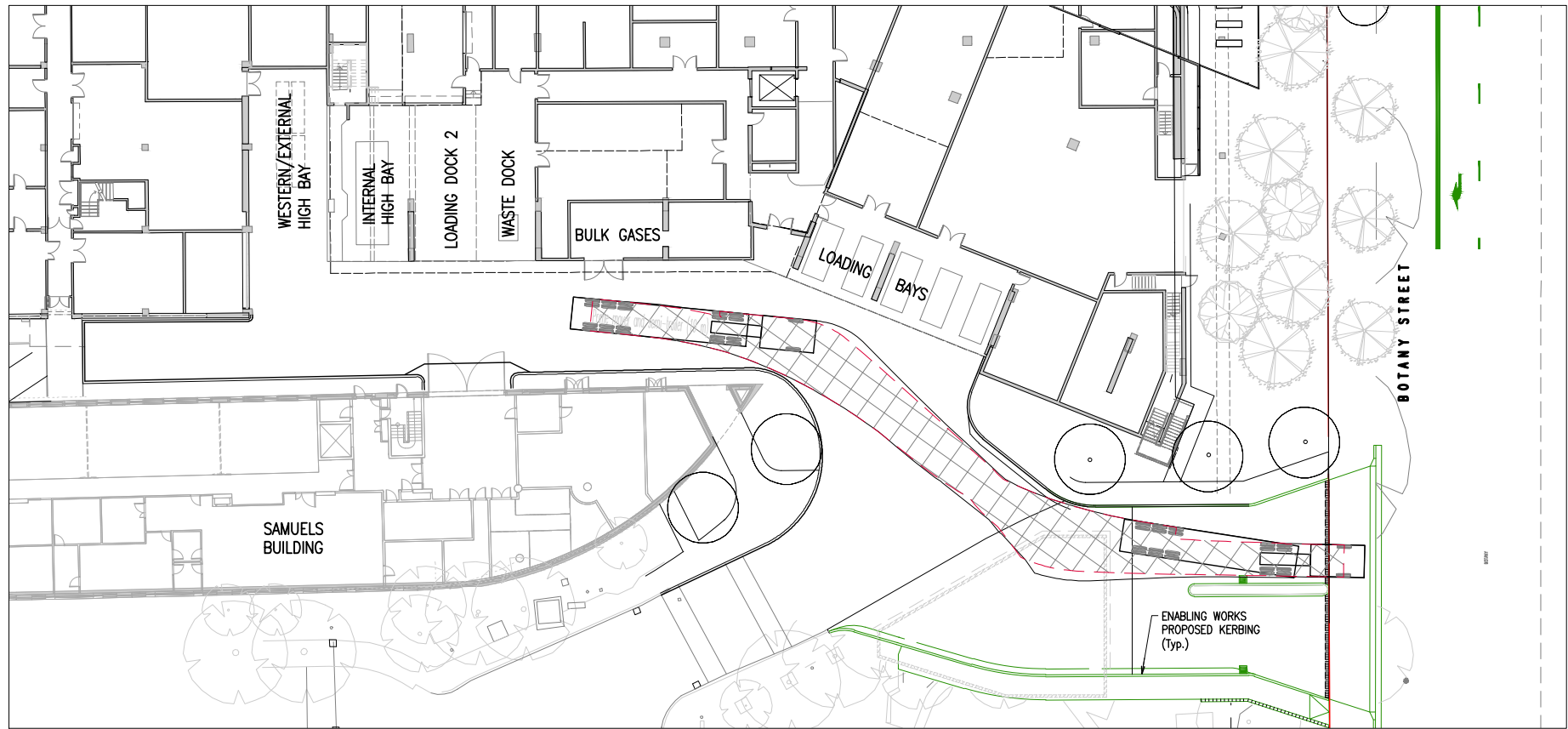




GAS STORAGE – 19m ARTICULATED VEHICLE – ACCESS MANOEUVRE



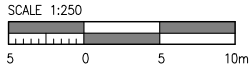
GAS STORAGE – 19m ARTICULATED VEHICLE – EGRESS MANOEUVRE

- NOTE:
1. THE TURNING PATH DRAWING SET IS TO BE READ IN CONJUNCTION WITH THE CURRENT ROBERT BIRD GROUP MEMORANDUM TITLED "VEHICLE TURNING MOVEMENT INVESTIGATION SUMMARY".
  2. VEHICLE START POSITION NOTED FROM CURRENT UNSW PROCEDURE OF VEHICLE ENTERING GATE 11 AND TURNING AROUND ADJACENT TO LIBRARY WALK.



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| Rev | Revision Description   | By | App. | Date     | Rev | Revision Description | By | App. | Date |
|-----|------------------------|----|------|----------|-----|----------------------|----|------|------|
| 1   | ISSUED FOR INFORMATION | RC | CW   | 25.08.14 |     |                      |    |      |      |
| 2   | ISSUED FOR INFORMATION | RC | CW   | 18.09.14 |     |                      |    |      |      |
| 3   | ISSUED FOR INFORMATION | RC | CW   | 08.10.14 |     |                      |    |      |      |
| 4   | ISSUED FOR REVIEW      | RC | CW   | 21.10.14 |     |                      |    |      |      |
| 5   | ISSUED FOR REVIEW      | RC | CW   | 27.11.14 |     |                      |    |      |      |
| 6   | ISSUED FOR REVIEW      | RC | CW   | 05.12.14 |     |                      |    |      |      |

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Client  
**BROOKFIELD MULTIPLEX  
CONSTRUCTIONS PTY LTD**

Title  
**VEHICLE TURNING  
MOVEMENTS SKETCH 4 OF  
11**

Project  
**BIOLOGICAL SCIENCES PROJECT**

**NOT FOR CONSTRUCTION**

|                             |                                |                                     |
|-----------------------------|--------------------------------|-------------------------------------|
| Date<br>20.01.15            | Designer<br>C. WAITE           | Design Checker<br>L.MELVILLE        |
| Scale at A1<br>AS SHOWN     | Drawn<br>S. MANANDHAR          | Principal/Project Leader<br>R.LUCAS |
| Job Number<br><b>14500C</b> | Drawing Number<br><b>C4-53</b> | Revision<br><b>6</b>                |

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NOTE:

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| Rev | Revision Description   | By | App. | Date     | Rev | Revision Description | By | App. | Date |
|-----|------------------------|----|------|----------|-----|----------------------|----|------|------|
| 1   | ISSUED FOR INFORMATION | RC | CW   | 25.08.14 |     |                      |    |      |      |
| 2   | ISSUED FOR INFORMATION | RC | CW   | 18.09.14 |     |                      |    |      |      |
| 3   | ISSUED FOR INFORMATION | RC | CW   | 08.10.14 |     |                      |    |      |      |
| 4   | ISSUED FOR REVIEW      | RC | CW   | 21.10.14 |     |                      |    |      |      |
| 5   | ISSUED FOR REVIEW      | RC | CW   | 27.11.14 |     |                      |    |      |      |
| 6   | ISSUED FOR REVIEW      | RC | CW   | 05.12.14 |     |                      |    |      |      |
| 7   | ISSUED FOR REVIEW      | RC | CW   | 16.12.14 |     |                      |    |      |      |

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Client  
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Title  
**VEHICLE TURNING  
MOVEMENTS SKETCH 5 OF  
11**  
Project  
**BIOLOGICAL SCIENCES PROJECT**

**NOT FOR CONSTRUCTION**

|                             |                                |                                     |
|-----------------------------|--------------------------------|-------------------------------------|
| Date<br>20.01.15            | Designer<br>C. WAITE           | Design Checker<br>L.MELVILLE        |
| Scale at A1<br>AS SHOWN     | Drawn<br>S. MANANDHAR          | Principal/Project Leader<br>R.LUCAS |
| Job Number<br><b>14500C</b> | Drawing Number<br><b>C4-54</b> | Revision<br><b>6</b>                |

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NOTES:

1. THE TURNING PATH DRAWING SET IS TO BE READ IN CONJUNCTION WITH THE CURRENT ROBERT BIRD GROUP MEMORANDUM TITLED "VEHICLE TURNING MOVEMENT INVESTIGATION SUMMARY".
2. ATTEMPTED ACCESS MANOEUVRE TO EXTERNAL HIGH BAY REMOVED FROM ASSESSMENT. ACCESS MAY BE TECHNICALLY POSSIBLE TO THIS AREA WITH A SIGNIFICANTLY LARGE NUMBER MOVEMENTS.



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| Rev | Revision Description   | By | App. | Date     | Rev | Revision Description | By | App. | Date |
|-----|------------------------|----|------|----------|-----|----------------------|----|------|------|
| 1   | ISSUED FOR INFORMATION | RC | CW   | 18.09.14 |     |                      |    |      |      |
| 2   | ISSUED FOR INFORMATION | RC | CW   | 08.10.14 |     |                      |    |      |      |
| 3   | ISSUED FOR REVIEW      | RC | CW   | 21.10.14 |     |                      |    |      |      |
| 4   | ISSUED FOR REVIEW      | RC | CW   | 27.11.14 |     |                      |    |      |      |
| 5   | ISSUED FOR REVIEW      | RC | CW   | 05.12.14 |     |                      |    |      |      |
| 6   | ISSUED FOR REVIEW      | RC | RL   | 20.01.15 |     |                      |    |      |      |

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Client  
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Title  
**VEHICLE TURNING  
MOVEMENTS SKETCH 6 OF  
11**

Project  
**BIOLOGICAL SCIENCES PROJECT**

NOT FOR CONSTRUCTION

|                         |                         |                                     |
|-------------------------|-------------------------|-------------------------------------|
| Date<br>20.01.15        | Designer<br>C. WAITE    | Design Checker<br>L.MELVILLE        |
| Scale at A1<br>1:200@A1 | Drawn<br>S. MANANDHAR   | Principal/Project Leader<br>R.LUCAS |
| Job Number<br>14500C    | Drawing Number<br>C4-55 | Revision<br>6                       |



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SCALE 1:250

5 0 5 10m

| Rev | Revision Description   | By | App | Date     | Rev | Revision Description | By | App | Date |
|-----|------------------------|----|-----|----------|-----|----------------------|----|-----|------|
| 1   | ISSUED FOR INFORMATION | RC | CW  | 08.10.14 |     |                      |    |     |      |
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| 4   | ISSUED FOR REVIEW      | RC | CW  | 05.12.14 |     |                      |    |     |      |
| 5   | ISSUED FOR REVIEW      | RC | RL  | 20.01.15 |     |                      |    |     |      |

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Title

**VEHICLE TURNING  
MOVEMENTS SKETCH 7 OF  
11**

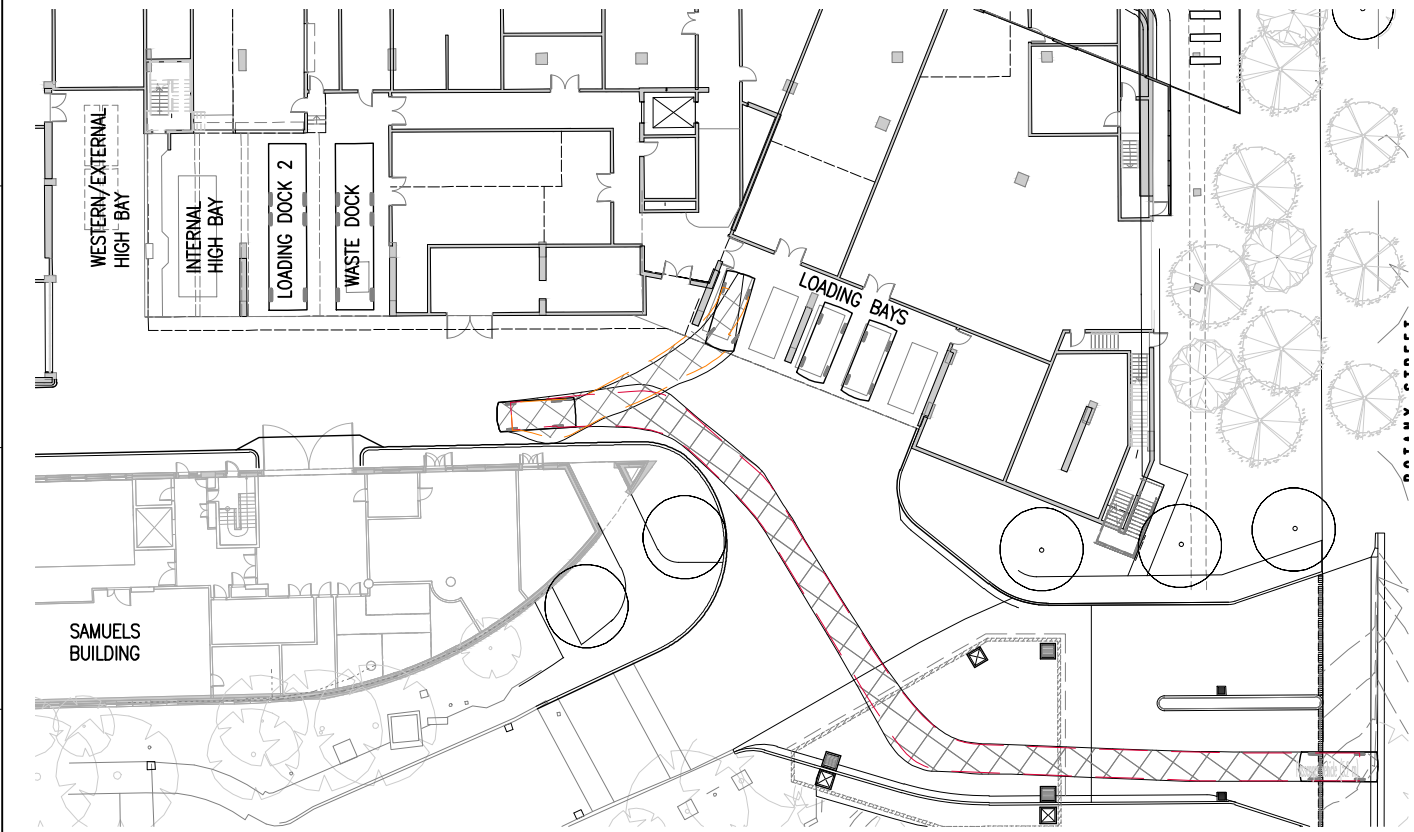
Project

**BIOLOGICAL SCIENCES PROJECT**

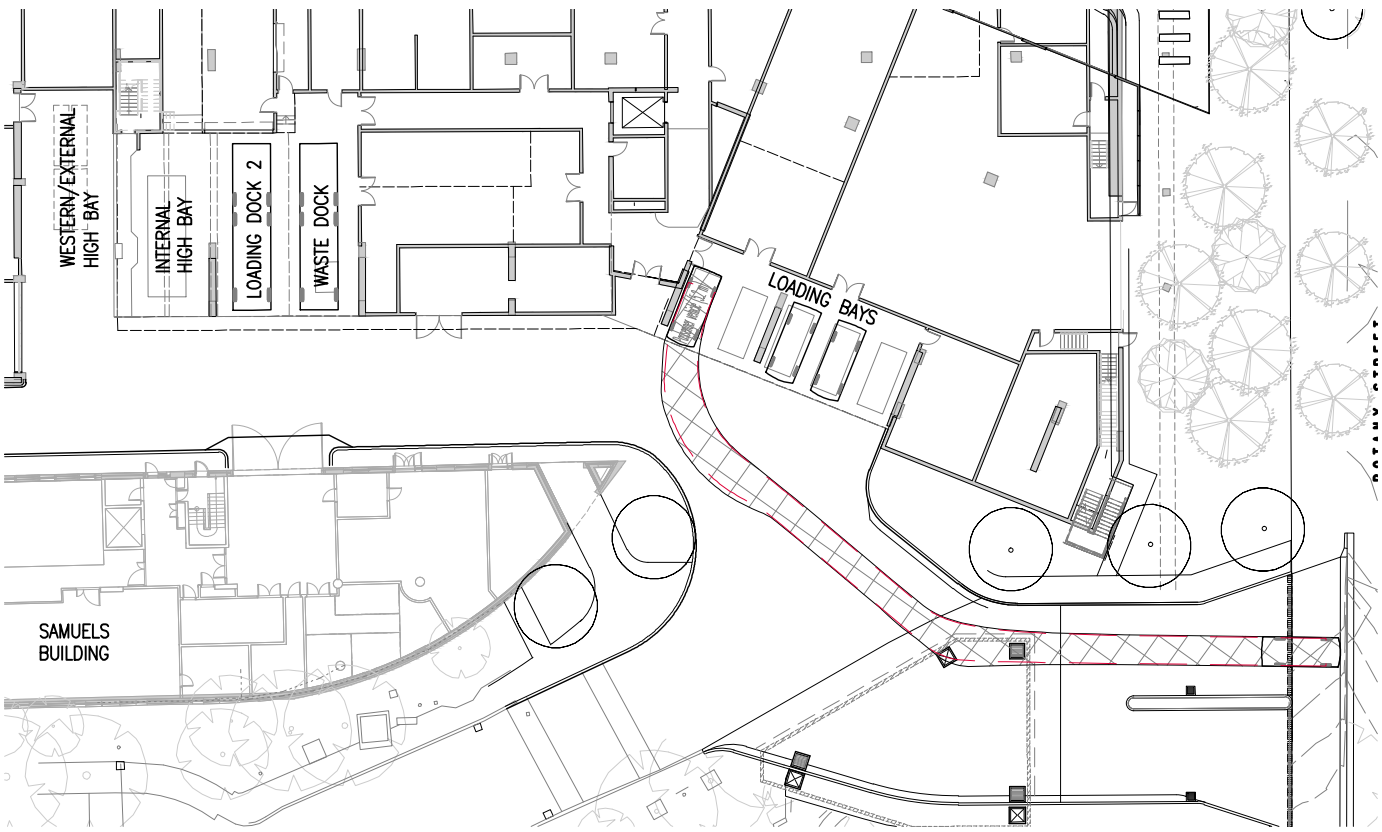
**NOT FOR CONSTRUCTION**

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|-----------------------------|--------------------------------|-------------------------------------|
| Date<br>20.01.15            | Designer<br>C. WAITE           | Design Checker<br>L.MELVILLE        |
| Scale at A1<br>AS SHOWN     | Drawn<br>S. MANANDHAR          | Principal/Project Leader<br>R.LUCAS |
| Job Number<br><b>14500C</b> | Drawing Number<br><b>C4-56</b> | Revision<br><b>5</b>                |

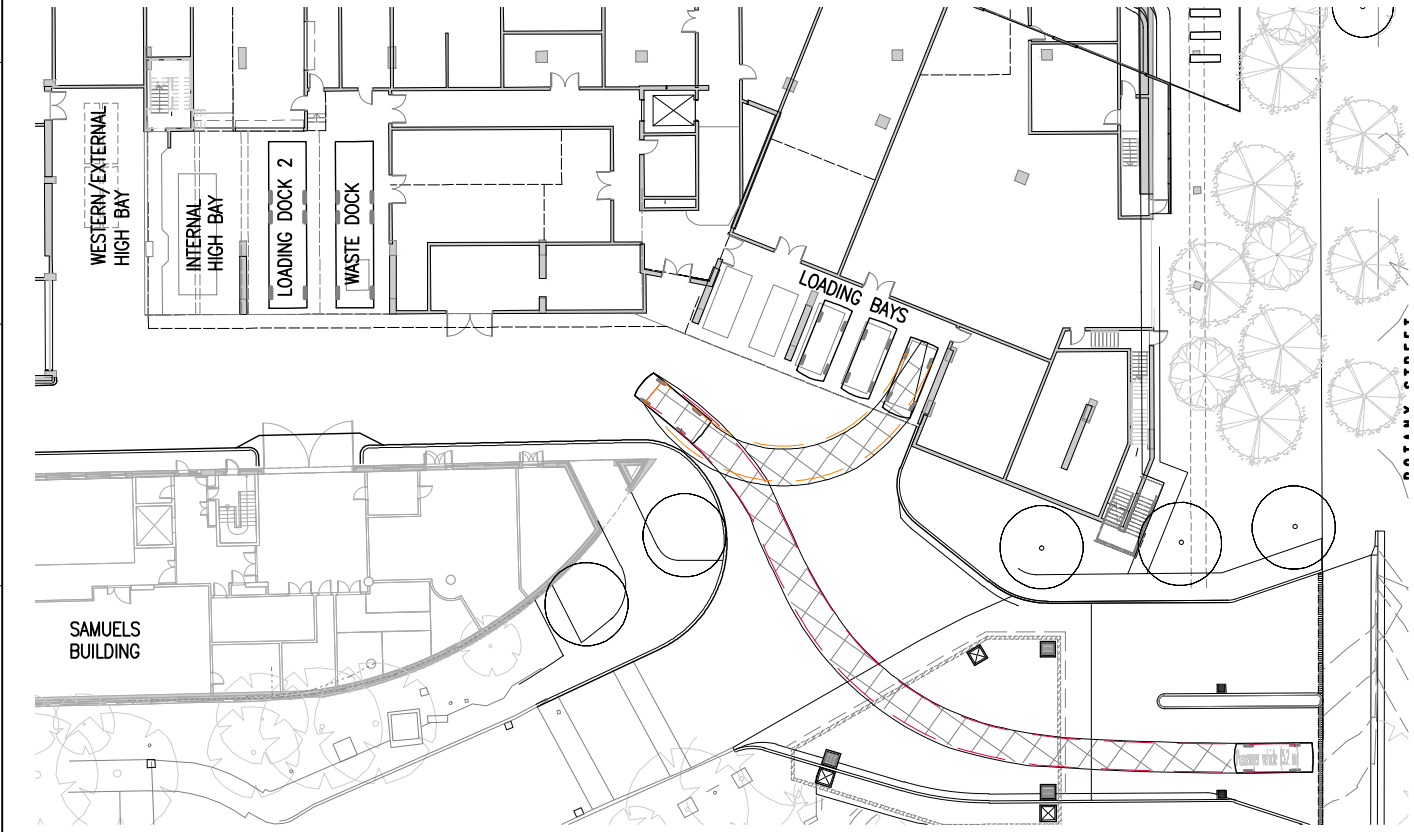
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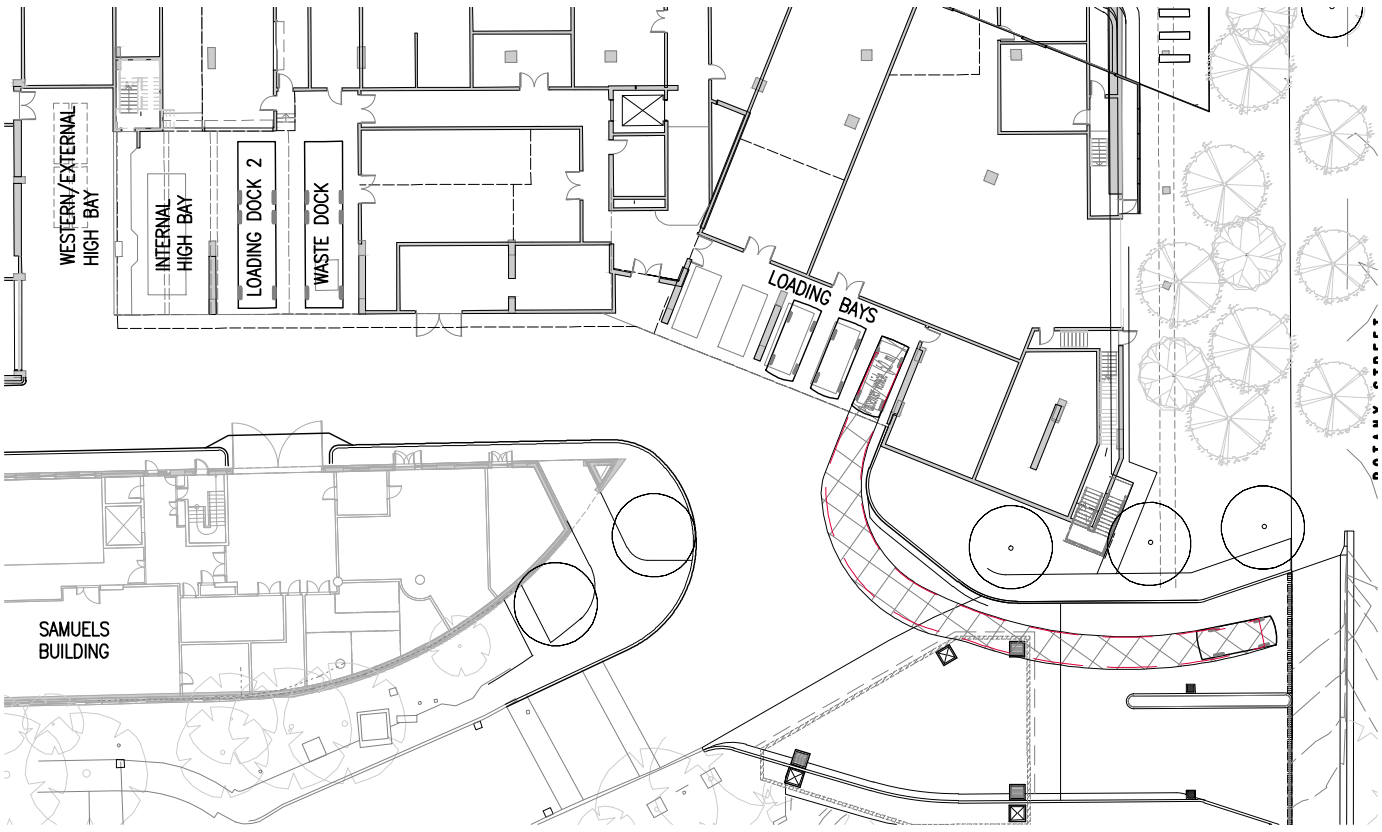
LOADING BAYS - SMALL RIGID VEHICLE (SRV) - ACCESS MANOEUVRE 1



LOADING BAYS - SMALL RIGID VEHICLE (SRV) - EGRESS MANOEUVRE 1



LOADING BAYS - SMALL RIGID VEHICLE (SRV) - ACCESS MANOEUVRE 2



LOADING BAYS - SMALL RIGID VEHICLE (SRV) - EGRESS MANOEUVRE 2



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Scale 1:250



NOTE:  
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| Rev | Revision Description   | By | App | Date     | Rev | Revision Description | By | App | Date |
|-----|------------------------|----|-----|----------|-----|----------------------|----|-----|------|
| 1   | ISSUED FOR INFORMATION | RC | CW  | 08.10.14 |     |                      |    |     |      |
| 2   | ISSUED FOR REVIEW      | RC | CW  | 21.10.14 |     |                      |    |     |      |
| 3   | ISSUED FOR REVIEW      | RC | CW  | 27.11.14 |     |                      |    |     |      |
| 4   | ISSUED FOR REVIEW      | RC | CW  | 05.12.14 |     |                      |    |     |      |
| 5   | ISSUED FOR REVIEW      | RC | RL  | 20.01.15 |     |                      |    |     |      |

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**BROOKFIELD MULTIPLEX  
CONSTRUCTIONS PTY LTD**

Title

**VEHICLE TURNING  
MOVEMENTS SKETCH 8 OF  
11**

Project

**BIOLOGICAL SCIENCES PROJECT**

| NOT FOR CONSTRUCTION |                |                          |  |
|----------------------|----------------|--------------------------|--|
| Date                 | Designer       | Design Checker           |  |
| 20.01.15             | C. WAITE       | LIMELVILLE               |  |
| Scale at A1          | Drawn          | Principal/Project Leader |  |
| AS SHOWN             | S. MANANDHAR   | RLUCAS                   |  |
| Job Number           | Drawing Number | Revision                 |  |
| 14500C               | C4-57          | 5                        |  |



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**NOTE:**

1. THE TURNING PATH DRAWING SET IS TO BE READ IN CONJUNCTION WITH THE CURRENT ROBERT BIRD GROUP MEMORANDUM TITLED "VEHICLE TURNING MOVEMENT INVESTIGATION SUMMARY".
2. EGRESS MANOEUVRE HAS BEEN MODELED AND IS ACHIEVABLE. THIS PATH HAS NOT BEEN SHOWN ON THIS PLAN FOR CLARITY.

**EXTERNAL DOCK REGION – 10.4m GENERAL GARBAGE VEHICLE – REVERSE IN ACCESS MANOEUVRE**

| Rev | Revision Description   | By | App. | Date     | Rev | Revision Description | By | App. | Date |
|-----|------------------------|----|------|----------|-----|----------------------|----|------|------|
| 1   | ISSUED FOR INFORMATION | CW | CW   | 21.10.14 |     |                      |    |      |      |
| 2   | ISSUED FOR INFORMATION | CW | CW   | 27.11.14 |     |                      |    |      |      |
| 3   | ISSUED FOR INFORMATION | CW | CW   | 05.12.14 |     |                      |    |      |      |
| 4   | ISSUED FOR INFORMATION | RC | RL   | 20.01.15 |     |                      |    |      |      |
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Client

**BROOKFIELD MULTIPLEX  
CONSTRUCTIONS PTY LTD**

Title  
**VEHICLE TURNING  
MOVEMENTS SKETCH 9 OF  
11**

Project  
**BIOLOGICAL SCIENCES PROJECT**

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|                  |                      |                              |
|------------------|----------------------|------------------------------|
| Date<br>20.01.15 | Designer<br>C. WAITE | Design Checker<br>L.MELVILLE |
|------------------|----------------------|------------------------------|

|                         |                       |                                     |
|-------------------------|-----------------------|-------------------------------------|
| Scale at A1<br>AS SHOWN | Drawn<br>S. MANANDHAR | Principal/Project Leader<br>R.LUCAS |
|-------------------------|-----------------------|-------------------------------------|

|                             |                                |                      |
|-----------------------------|--------------------------------|----------------------|
| Job Number<br><b>14500C</b> | Drawing Number<br><b>C4-58</b> | Revision<br><b>4</b> |
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**NOTE:**

1. THE TURNING PATH DRAWING SET IS TO BE READ IN CONJUNCTION WITH THE CURRENT ROBERT BIRD GROUP MEMORANDUM TITLED "VEHICLE TURNING MOVEMENT INVESTIGATION SUMMARY".
2. EGRESS MANOEUVRE HAS BEEN MODELED AND IS ACHIEVABLE. THIS PATH HAS NOT BEEN SHOWN ON THIS PLAN FOR CLARITY. REFER TO PLAN C4-54 FOR PRECISE ACCESS AND EGRESS MOVEMENTS THROUGH DOCK AREA.

| Rev | Revision Description   | By | App. | Date     | Rev | Revision Description | By | App. | Date |
|-----|------------------------|----|------|----------|-----|----------------------|----|------|------|
| 1   | ISSUED FOR INFORMATION | RC | CW   | 16.12.14 |     |                      |    |      |      |
| 2   | ISSUED FOR INFORMATION | RC | RL   | 20.01.15 |     |                      |    |      |      |
| 3   | ISSUED FOR INFORMATION | RC | RL   | 27.01.15 |     |                      |    |      |      |
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ACR: 010 580 246



Client

**BROOKFIELD MULTIPLEX  
CONSTRUCTIONS PTY LTD**

Title

**VEHICLE TURNING  
MOVEMENTS SKETCH  
10 OF 11**

Project

**BIOLOGICAL SCIENCES PROJECT**

**NOT FOR CONSTRUCTION**

Date

27.01.15

Designer

C. WAITE

Design Checker

LAMELVILLE

Scale at A1

AS SHOWN

Drawn

S. MANANDHAR

Principal/Project Leader

R. LUCAS

Job Number

14500C

Drawing Number

C4-59

Revision

3

**EXTERNAL DOCK REGION - 8.5m SKIP TRUCK - REVERSE IN ACCESS MANOEUVRE**

SCALE 1:250





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**NOTE:**

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2. EGRESS MANOEUVRE HAS BEEN MODELED AND IS ACHIEVABLE. THIS PATH HAS NOT BEEN SHOWN ON THIS PLAN FOR CLARITY. REFER TO PLAN C4-54 FOR PRECISE ACCESS AND EGRESS MOVEMENTS THROUGH DOCK AREA.

**WASTE DOCK REGION – 10.52m FRONT LIFT GARBAGE TRUCK – REVERSE IN ACCESS MANOEUVRE**

| Rev. | Revision Description   | By | App. | Date     | Rev. | Revision Description | By | App. | Date |
|------|------------------------|----|------|----------|------|----------------------|----|------|------|
| 1    | ISSUED FOR INFORMATION | RC | RL   | 20.01.15 |      |                      |    |      |      |
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CONSTRUCTIONS PTY LTD**

Title

**VEHICLE TURNING  
MOVEMENTS SKETCH  
11 OF 11**

Project

**BIOLOGICAL SCIENCES PROJECT**

**NOT FOR CONSTRUCTION**

Date  
20.01.15

Designer  
C. WAITE

Design Checker  
LIMEVILLE

Scale at A1  
AS SHOWN

Drawn  
S. MANANDHAR

Principal/Project Leader  
R. LUCAS

Job Number

**14500C**

Drawing Number

**C4-60**

Revision

**1**

SCALE 1:250





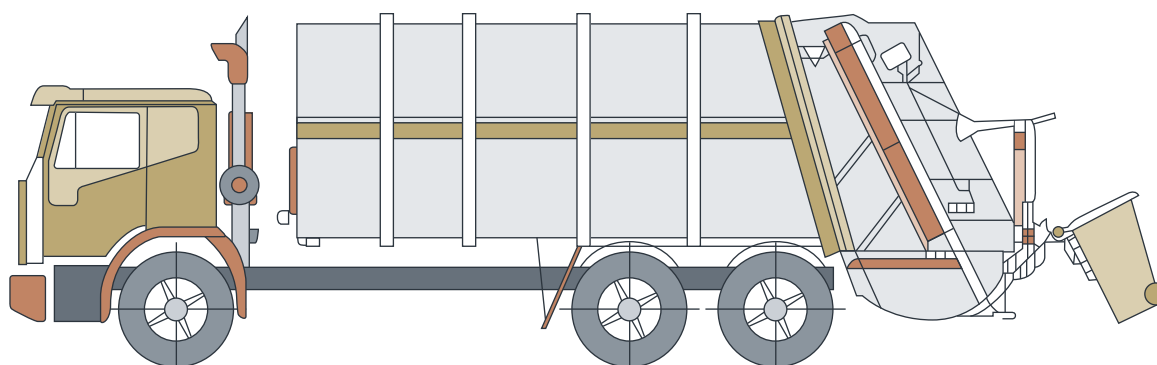
## Appendix C

### Collection vehicles

Waste collection vehicles may be side loading, rear-end loading, front-end loading or crane trucks. The size of vehicle varies according to the collection service. Thus it is impossible to specify what constitutes the definitive garbage vehicle. Developers should consult the local council and/or relevant contractors regarding the type of vehicle used in that area.

The following characteristics represent the typical collection vehicle, however, these are only for guidance.

It may be possible to engage a collection service provider to use smaller collection vehicles to service developments with narrow roadways and laneways, or for on-site collections. However, as the availability of smaller vehicles to make services varies between councils and private contractors, wherever possible the development should be designed to accommodate vehicles of a similar size to that reported below.



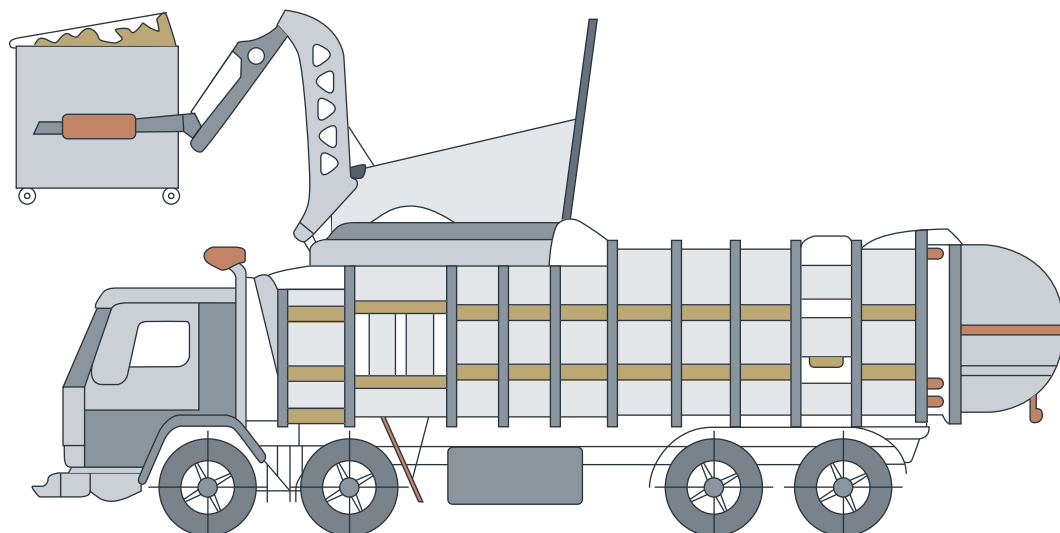
#### Rear loading collection vehicle

| Rear loading collection vehicle |             |
|---------------------------------|-------------|
| Length overall                  | 10.24m      |
| Width overall                   | 2.5m        |
| Operational height              | 3.5m        |
| Travel height                   | 3.5m        |
| Weight (vehicle only)           | 12.4 tonnes |
| Weight (payload)                | 9.5 tonnes  |
| Turning circle                  | 18.0m       |

This is commonly used for domestic garbage and recycling collections from MUDs. It can be used to collect waste stored in MGBs or bulk bins, particularly where bins are not presented on the kerbside.



## Front-lift loading collection vehicle



| Front-lift loading collection vehicle |        |
|---------------------------------------|--------|
| Length overall                        | 10.52m |
| Front overhang                        | 1.51m  |
| Wheelbase                             | 5.84m  |
| Rear overhang                         | 3.17m  |
| Turning circle kerb to kerb           | 22.10m |
| Turning circle wall to wall           | 23.66m |
| Travel height                         | 3.82m  |
| Clearance height for loading          | 6.1m   |

This is mainly used for collecting commercial and industrial waste, and is only suitable for bulk bins with front lift pockets (not MGBs).