

Chung, Jenny

From: Trickett, Sam
Sent: Tuesday, 24 November 2020 3:08 PM
To: Chung, Jenny
Subject: FW: [EXT]:RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)
Attachments: RE: [EXT]:FW: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Sam Trickett

Construction Manager, One Sydney Harbour
Level 14, Tower Three, International Towers Sydney
Exchange Place, 300 Barangaroo Avenue, Barangaroo NSW 2000
M +61 416 156 181

sam.trickett@lendlease.com | www.lendlease.com

lendlease



From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Thursday, 5 November 2020 9:21 AM
To: Kunal Rudra <kunal.rudra@cardno.com.au>
Cc: Rick Andrew <richard.andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Trickett, Sam <Sam.Trickett@lendlease.com>
Subject: [EXT]:RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kunal

Thank you for providing TfNSW with the Construction Traffic Management Plan (CTMP) Barangaroo South.

Several construction projects are likely to occur at the same time as this development within the CBD. The cumulative increase in construction vehicle movements from these projects could have the potential to impact on general traffic and bus operations in the CBD, and the safety of pedestrians and cyclists within the CBD particularly during commuter peak periods.

TfNSW has endorsed the attached CTMP. Please ensure this CTMP is shared and adhered to by all contractors. If the CTMP changes, please forward a copy to TfNSW for further review and endorsement.

TfNSW welcomes ongoing discussions on any issues that may arise during the development relating to traffic and transport.

From: Kunal Rudra [<mailto:kunal.rudra@cardno.com.au>]
Sent: Tuesday, 20 October 2020 5:02 PM
To: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Trickett, Sam <Sam.Trickett@lendlease.com>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kaye,

Lendlease have confirmed that Gate H3 will remain open and traffic control present to manage vehicles entering site. (refer attached email)

Any queries please do not hesitate to let us know.

Regards,

Kunal Rudra
ASSISTANT PROJECT MANAGER
CARDNO



Phone +61 2 9496 7700 Direct +61 2 9024 7156
Address Level 9, The Forum, 203 Pacific Highway, St Leonards, New South Wales 2065 Australia

Email kunal.rudra@cardno.com.au Web <https://clicktime.symantec.com/38qftPnJYJQ8CF9BciNFaV7Vc?u=www.cardno.com>

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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Tuesday, 20 October 2020 1:53 PM
To: Kunal Rudra <kunal.rudra@cardno.com.au>
Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Trickett, Sam <Sam.Trickett@lendlease.com>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kunal

I have reviewed the change and the only comment I would like clarified is when a vehicle is to enter the gate will they need to wait till for the gate to be opened? If so it needs to be ensured that it does not queue in the lane.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination, Greater Sydney
Transport for NSW

M 0435 961 672
Level 44 680 George Street Sydney NSW 2000



**Transport
for NSW**

From: Kunal Rudra [<mailto:kunal.rudra@cardno.com.au>]
Sent: Tuesday, 20 October 2020 1:44 PM
To: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Trickett, Sam <Sam.Trickett@lendlease.com>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kaye,

Tried to give you a call this morning but couldn't get through.

Lendlease are proposing to relocate an existing entry gate for their Barangaroo South Construction compound on Hickson Rd 10m south of its existing location, refer markup attached.
Cardno are currently preparing a CTMP to reflect this change.

Given that Lendlease are proposing to reposition an existing gate, could you please advise if the CTMP will need to be reviewed and approved by TfNSW prior to relocating the gate?

Any queries please let me know.

Regards,

Kunal Rudra
ASSISTANT PROJECT MANAGER
CARDNO



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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Thursday, 15 October 2020 1:38 PM
To: Kunal Rudra <kunal.rudra@cardno.com.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>
Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Phoebe, Bonnie-Rae <Bonnie-Rae.Phoebe@lendlease.com>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kunal

Thank you for providing TfNSW with the Construction Pedestrian Traffic Management Plan (CPTMP) for Barangaroo South.

Several construction projects are likely to occur at the same time as this development within the CBD. The cumulative increase in construction vehicle movements from these projects could have the potential to impact on general traffic and bus operations in the CBD, and the safety of pedestrians and cyclists within the CBD particularly during commuter peak periods.

TfNSW has endorsed the attached CPTMP. Please ensure this CPTMP is shared and adhered to by all contractors. If the CPTMP changes, please forward a copy to TfNSW for further review and endorsement.

TfNSW welcomes ongoing discussions on any issues that may arise during the development relating to traffic and transport.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination, Greater Sydney
Transport for NSW

M 0435 961 672



From: Kunal Rudra [<mailto:kunal.rudra@cardno.com.au>]
Sent: Thursday, 15 October 2020 1:14 PM
To: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>
Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Phoebe, Bonnie-Rae <Bonnie-Rae.Phoebe@lendlease.com>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kaye,

Hope you are well.
Just following up on the CTMP, could you please provide an update on TfNSW's assessment.

If you have any queries please do not hesitate to let me know.

Regards,

Kunal Rudra
ASSISTANT PROJECT MANAGER
CARDNO



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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Friday, 2 October 2020 3:19 PM
To: Kunal Rudra <kunal.rudra@cardno.com.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>
Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Phoebe,

Bonnie-Rae <Bonnie-Rae.Phoebe@lendlease.com>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kunal

I have circulated the documents to internal stakeholders for comment and I should have a response to you next week.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination, Greater Sydney
Transport for NSW

M 0435 961 672
Level 44 680 George Street Sydney NSW 2000



From: Kunal Rudra [<mailto:kunal.rudra@cardno.com.au>]

Sent: Friday, 2 October 2020 3:09 PM

To: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>

Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Phoebe, Bonnie-Rae <Bonnie-Rae.Phoebe@lendlease.com>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kaye,

Hope you are well.

Just following up on the below, could you please advise if you have had a chance to review.

If you have any queries please do not hesitate to let us know.

Regards,

Kunal Rudra

ASSISTANT PROJECT MANAGER
CARDNO



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From: Kunal Rudra

Sent: Monday, 28 September 2020 9:57 AM

To: 'Kaye Russell' <Kaye.Russell@transport.nsw.gov.au>; 'Alex.Karki@transport.nsw.gov.au' <Alex.Karki@transport.nsw.gov.au>

Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; 'Phoebe, Bonnie-Rae' <Bonnie-Rae.Phoebe@lendlease.com>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP) [Filed 28 Sep 2020 09:56]

Hi Kaye,

Hope you had a nice weekend.

Just following up on the below, apologies to follow up so soon after only submitting the CTMP on Friday morning however Lendlease intend to install the gate H1 off Barton St this evening.

Any queries please do not hesitate to let me know.

Regards,

Kunal Rudra

ASSISTANT PROJECT MANAGER
CARDNO



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Address Level 9, The Forum, 203 Pacific Highway, St Leonards, New South Wales 2065 Australia

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From: Kunal Rudra

Sent: Friday, 25 September 2020 11:00 AM

To: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>; Alex.Karki@transport.nsw.gov.au

Cc: Rick Andrew <Richard.Andrew@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Phoebe, Bonnie-Rae <Bonnie-Rae.Phoebe@lendlease.com>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP) [Filed 25 Sep 2020 11:00]

Hi Kaye,

Please be advised that Adrian Lu no longer works at Cardno, by way of introduction I am the new contact for Cardno.

There has been a minor amendment to the previously endorsed CTMP, please see attached.

The proposed v18 CTMP introduces:

- A new exit only Gate H1 to the south of Barton St
- A new entry movement for an 11m rigid truck reversing into Gate H6

We have maintained the same traffic volumes as the previously endorsed CTMP.

Could you please review the attached and let me know if there are any queries. Happy to call and discuss.

Regards,

Kunal Rudra

ASSISTANT PROJECT MANAGER
CARDNO



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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>

Sent: Monday, 6 July 2020 9:50 AM

To: Adrian Lu <Adrian.Lu@cardno.com.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>

Cc: alex.campbell@lendlease.com; Garry Neville <Garry.Neville@cardno.com.au>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Adrian

Thank you for providing TfNSW with the Construction Pedestrian Traffic Management Plan (CPTMP) for Barangaroo South.

Several construction projects are likely to occur at the same time as this development within the CBD. The cumulative increase in construction vehicle movements from these projects could have the potential to impact on general traffic and bus operations in the CBD, and the safety of pedestrians and cyclists within the CBD particularly during commuter peak periods.

TfNSW has endorsed the attached CPTMP. Please ensure this CPTMP is shared and adhered to by all contractors. If the CPTMP changes, please forward a copy to TfNSW for further review and endorsement.

TfNSW welcomes ongoing discussions on any issues that may arise during the development relating to traffic and transport.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination, Greater Sydney
Transport for NSW

M 0435 961 672
Level 44 680 George Street Sydney NSW 2000



From: Adrian Lu [<mailto:Adrian.Lu@cardno.com.au>]

Sent: Thursday, 25 June 2020 5:51 PM

To: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>

Cc: alex.campbell@lendlease.com; Garry Neville <Garry.Neville@cardno.com.au>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kaye and Alex,

There has been a minor amendment to the previously endorsed CTMP.

The proposed v17 CTMP introduces a Gate H7 which functions as an exit only gate in close proximity to existing H5. The proposed traffic volumes between Gates H5 and H7 will remain consistent with previously endorsed H5 traffic volume (30% of total traffic).

Please see attached.

Let me know if there are any issues. Happy to call and discuss.
Regards,

Adrian Lu
CIVIL ENGINEER
CARDNO



Phone +61 2 9496 7700 Fax +61 2 9439 5170 Direct +61 2 9024 7046 Mobile +61 425 981 993
Address Level 9, The Forum, 203 Pacific Highway, St Leonards, New South Wales 2065 Australia
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Email adrian.lu@cardno.com.au Web <https://clicktime.symantec.com/37CvQyLAsYQJfTBZmJ5geKw7Vc?u=www.cardno.com>

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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Monday, 27 April 2020 11:40 AM
To: Adrian Lu <Adrian.Lu@cardno.com.au>
Subject: FW: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CTMP)

Hi Adrian

That's fine. The below endorsement is still provided.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination, Greater Sydney
Transport for NSW

T 02 8265 6722 M 0435 961 672
Level 44 680 George Street Sydney NSW 2000

From: Adrian Lu [<mailto:Adrian.Lu@cardno.com.au>]
Sent: Friday, 24 April 2020 4:43 PM
To: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Cc: Brandon Morson <Brandon.MORSON@tmc.transport.nsw.gov.au>; Mark Carruthers <Mark.J.CARRUTHERS@transport.nsw.gov.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>; Christopher Smith <Christopher.SMITH@tmc.transport.nsw.gov.au>; Osgood, Miranda <Miranda.Osgood@lendlease.com>; Trickett, Sam <Sam.Trickett@lendlease.com>; Garry Neville <Garry.Neville@cardno.com.au>; Isaac Kassis <isaac.kassis@cardno.com.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Hi Kaye,

Thanks for that. There has been a minor amendment to the endorsed CTMP (v15).
The proposed v16 CTMP changes Gate H5 function from an 'exit only gate' to an 'entry and exit gate'. There has been no change in proposed construction traffic volumes using Gate H5 and the proposed traffic control measures is generally the same as what is currently endorsed.

Please see attached.

Let me know if there are any issues. Happy to call and discuss.
Regards,

Adrian Lu
CIVIL ENGINEER
CARDNO



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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Thursday, 8 August 2019 10:55 AM

To: Adrian Lu <Adrian.Lu@cardno.com.au>
Cc: Brandon Morson <Brandon.MORSON@tmc.transport.nsw.gov.au>; Mark Carruthers <Mark.J.CARRUTHERS@rms.nsw.gov.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>; Isaac Kassis <isaac.kassis@cardno.com.au>; Christopher Smith <Christopher.SMITH@tmc.transport.nsw.gov.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan (CPTMP)

Adrian

Thank you for providing TfNSW with the Construction Traffic Management Plan (CTMP) for Watermans Quay and Barangaroo Ave Access Gates.

Several construction projects, including the Sydney Light Rail Project are likely to occur at the same time as this development within the CBD. The cumulative increase in construction vehicle movements from these projects could have the potential to impact on general traffic and bus operations in the CBD, and the safety of pedestrians and cyclists within the CBD particularly during commuter peak periods.

TfNSW has endorsed the attached CTMP. Please ensure this CTMP is shared and adhered to by all contractors. If the CTMP changes, please forward a copy to TfNSW for further review and endorsement.

TfNSW welcomes ongoing discussions on any issues that may arise during the development relating to traffic and transport.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination, Greater Sydney
Transport for NSW

T 02 8265 6722 M 0435 961 672
Level 44 680 George Street Sydney NSW 2000



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From: Adrian Lu [<mailto:Adrian.Lu@cardno.com.au>]
Sent: Friday, 2 August 2019 4:35 PM
To: Kaye Russell
Cc: Brandon Morson; Mark Carruthers; Alex Karki; Isaac Kassis
Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Hi Kaye,

Thanks for the comments. Hope you're feeling better.
Please see attached for the revised CPTMP and below for comments.

Let me know if there are any issues.
Regards,

Adrian Lu
CIVIL ENGINEER
CARDNO



Phone +61 2 9496 7700 Fax +61 2 9439 5170 Direct +61 2 9024 7046
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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Monday, 29 July 2019 9:46 AM
To: Adrian Lu <Adrian.Lu@cardno.com.au>
Cc: Brandon Morson <Brandon.MORSON@tmc.transport.nsw.gov.au>; Mark Carruthers <Mark.J.CARRUTHERS@rms.nsw.gov.au>; Alex Karki <Alex.Karki@transport.nsw.gov.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Adrian

Sorry for the delay in response. I was sick last week.

TfNSW would like the following points addressed –

- The details within the report state that gate 3 is for exit only but the plan on page 14 indicates that it will be entry as well. SCO would not support access via this driveway due to queueing it would cause into Hickson Rd. There was a typing error with Figure 6-4. The update to the CPTMP is proposed to include an additional gate (Gate 3) to facilitate exit only movements onto Watermans Quay. Please see the updated report for revised reference to the exit only gate.
- The exit movement from the driveway shows that vehicles will need use both lanes. This too may cause delays on Hickson Rd. Can you please clarify how this will be managed to minimise impacts. The gate usage frequency is once an hour as noted on Table 4-1. These truck manoeuvres require 15-30 seconds of local traffic management as it only involves 1-forward movement. During this time, there is capacity for 2 cars to queue on Watermans Quay (westbound) and an additional 10 cars on the left turn lane on Hickson Road (northbound). As discussed with and endorsed by our internal traffic engineering team, there is a low frequency and duration of trucks causing local delays while they use the proposed gate 3. Given this and the existing nearby queuing capacity, the probability of delays and overall traffic impact of this gate is very low.
- Section 4.4 refers to heavy vehicles staging outside of the city. Please provide details on where the staging will be held. In the event of delays and congestions in the Stage 1b site, truck deliveries will be suspended and vehicles will be instructed to layover at their relevant supplier's depot. Load out and removal vehicles will also be instructed to layover at their relevant contractor's stabling area. These supply depots and stabling areas are located across greater Sydney. No specific layover area has been nominated for all construction vehicles as there would be associated local traffic issues.

If you have any questions please contact me on the detail below.

Regards

Kaye Russell
Transport Planning Project Manager

Sydney Coordination Office
Transport Coordination, Greater Sydney
Transport for NSW

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Level 44 680 George Street Sydney NSW 2000



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From: Adrian Lu [<mailto:Adrian.Lu@cardno.com.au>]
Sent: Monday, 29 July 2019 9:32 AM
To: Kaye Russell
Cc: Trickett, Sam
Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Hi Kaye,

I tried calling a few times last week. Is there any update on the report below?

Regards,

Adrian Lu
CIVIL ENGINEER
CARDNO



Phone +61 2 9496 7700 Fax +61 2 9439 5170 Direct +61 2 9024 7046
Address Level 9, The Forum, 203 Pacific Highway, St Leonards, New South Wales 2065 Australia
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From: Adrian Lu
Sent: Tuesday, 23 July 2019 11:26 AM
To: 'Kaye Russell' <Kaye.Russell@transport.nsw.gov.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Hi Kaye,

Is there any update?

Regards,

Adrian Lu
CIVIL ENGINEER
CARDNO



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From: Adrian Lu
Sent: Friday, 5 July 2019 9:43 AM
To: 'Kaye Russell' <Kaye.Russell@transport.nsw.gov.au>
Cc: 'Mobayed, George' <George.Mobayed@transport.nsw.gov.au>; 'Davis, Ryan' <RyanN.Davis@lendlease.com>; 'Malik, Nayab' <Nayab.Malik@lendlease.com>; 'Trickett, Sam' <Sam.Trickett@lendlease.com>; Garry Neville <Garry.Neville@cardno.com.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Hi Kaye,

We have been requested to update the CPTMP to include another gate (Gate 3) to allow construction traffic to exit onto Watermans Quay eastbound.
We assessed this additional gate and updated the report including the swept paths and required traffic control measures to put in place.

No other changes were made to the previously endorsed report. Could you please review and endorse the updated report?

Let me know if there are any questions. Happy to call and discuss.
Regards,

Adrian Lu
CIVIL ENGINEER
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From: Hamid Tashkhisi
Sent: Friday, 31 May 2019 11:31 AM
To: 'Kaye Russell' <Kaye.Russell@transport.nsw.gov.au>
Cc: Mobayed, George <George.Mobayed@transport.nsw.gov.au>; Davis, Ryan <RyanN.Davis@lendlease.com>; Malik, Nayab <Nayab.Malik@lendlease.com>; Trickett, Sam <Sam.Trickett@lendlease.com>; Garry Neville <Garry.Neville@cardno.com.au>; Adrian Lu <Adrian.Lu@cardno.com.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Hi Kaye,

Thanks for your endorsement email. We ensure the CPTMP is shared and adhered to by all contractors.

Do we need to have TfNSW endorsement as well? Could you please provide us with the best contact at TfNSW for further review and endorsement?

Cheers,
Hamid

Hamid Tashkhisi
CIVIL ENGINEER
CARDNO



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From: Kaye Russell <Kaye.Russell@transport.nsw.gov.au>
Sent: Friday, 31 May 2019 10:48 AM
To: Hamid Tashkhisi <hamid.tashkhisi@cardno.com.au>
Cc: Mobayed, George <George.Mobayed@transport.nsw.gov.au>; Davis, Ryan <RyanN.Davis@lendlease.com>; Malik, Nayab <Nayab.Malik@lendlease.com>; Trickett, Sam <Sam.Trickett@lendlease.com>; Garry Neville <Garry.Neville@cardno.com.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Hi Hamid

Thank you for providing TfNSW with the Construction Pedestrian Traffic Management Plan (CPTMP) for Lendlease Project, Barangaroo South.

Several construction projects, including the Sydney Light Rail Project are likely to occur at the same time as this development within the CBD. The cumulative increase in construction vehicle movements from these projects could have the potential to impact on general traffic and bus operations in the CBD, and the safety of pedestrians and cyclists within the CBD particularly during commuter peak periods.

TfNSW has endorsed the attached CPTMP. However please note that the Cockle Bay Development may impact on construction vehicle access via Wheat Road.

Please ensure this CPTMP is shared and adhered to by all contractors. If the CPTMP changes, please forward a copy to TfNSW for further review and endorsement.

TfNSW welcomes ongoing discussions on any issues that may arise during the development relating to traffic and transport.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination
Transport for NSW

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Level 44 680 George Street Sydney NSW 2000



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From: Hamid Tashkhisi [<mailto:hamid.tashkhisi@cardno.com.au>]

Sent: Wednesday, 15 May 2019 3:37 PM

To: Kaye Russell

Cc: Mobayed, George; Davis, Ryan; Malik, Nayab; Trickett, Sam; Garry Neville

Subject: RE: Lendlease Project - Barangaroo South - Construction Pedestrian Traffic Management Plan (CPTMP)

Hi Kaye,

There has been a request to update the CPTMP to allow Gate 1 to have construction traffic exiting the site as well (previously the Gate 1 was entry only). We assess this and updated the report including the required traffic control measures to put in place.

Could you please review and endorse the updated report?

Please let me know if you have any questions.

Cheers,
Hamid

Hamid Tashkhisi
CIVIL ENGINEER
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From: Russell, Kaye <Kaye.Russell@transport.nsw.gov.au>
Sent: Wednesday, 19 December 2018 1:51 PM
To: Hamid Tashkhisi <hamid.tashkhisi@cardno.com.au>
Cc: Mobayed, George <George.Mobayed@transport.nsw.gov.au>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan

Hamid

Thank you for providing TfNSW with the Construction Pedestrian Traffic Management Plan (CPTMP) for Stage 1B, Watermans Quay and Barangaroo Avenue Access Gates, Barangaroo.

Several construction projects, including the Sydney Light Rail Project are likely to occur at the same time as this development within the CBD. The cumulative increase in construction vehicle movements from these projects could have the potential to impact on general traffic and bus operations in the CBD, and the safety of pedestrians and cyclists within the CBD particularly during commuter peak periods.

TfNSW has endorsed the CPTMP for the Watermans Quay and Barangaroo Ave access gates. Please ensure this CPTMP is shared and adhered to by all contractors. If the CPTMP changes, please forward a copy to TfNSW for further review and endorsement.

TfNSW welcomes ongoing discussions on any issues that may arise during the development relating to traffic and transport.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination
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From: Hamid Tashkhisi [<mailto:hamid.tashkhisi@cardno.com.au>]
Sent: Wednesday, 19 December 2018 11:06 AM
To: Russell, Kaye

Cc: Mobayed, George
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan
Importance: High

Hi Kaye,

Thanks for the feedback.

To clarify, please note the future Public Domain works (highlighted in yellow below) is not the subject of this CTMP or relevant CC condition. This will be done in a future CC.

This CTMP is to only cover the Watermans Quay and Barangaroo Ave gate and the Watermans cove and pier works.

Please call me should we discuss.

Cheers,
Hamid

Hamid Tashkhisi
CIVIL ENGINEER
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We wish you all the best for the festive season and continued success in 2019.

Cardno's offices across Australia and New Zealand will close at 5pm Friday, 21 December 2018 and reopen on Monday, 7 January, 2019.

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From: Russell, Kaye <Kaye.Russell@transport.nsw.gov.au>
Sent: Wednesday, 19 December 2018 10:26 AM
To: Hamid Tashkhisi <hamid.tashkhisi@cardno.com.au>
Cc: Mobayed, George <George.Mobayed@transport.nsw.gov.au>
Subject: FW: Lendlease Project - Barangaroo South - Construction Traffic Management Plan

Hamid

Our understanding of the content of the Public Domain works includes “ *the construction of Waterman’s Cove and public pier along the foreshore, public domain works associated with Hickson Park (including a proposed public amenities building), the completion of the Barangaroo South street system, as well as all typical public domain feature such as trees and other landscape features, walkways street paving, street furniture, lighting and wayfinding signage. Various services and infrastructure such as power and water will also be include in the public domain to enable it to be used for a range of different activities (Barangaroo Public Domain – SSD Request for SEARs – 7*

September 2016)". We have no documentation outlining the management of construction associated with these works. Our records show a CPTMP for –

- One Sydney Harbour Basement and Remediation works
- Block 4 Remediation Works
- Block 5 Remediation Works
- Watermans Quay and Barangaroo Avenue Access Gates

The Watermans Quay CPTMP only covers the installation and use of the temporary gates.

As per Condition 14 of the Development Consent the following points should be addressed in a document and forwarded to Sydney Coordination Office for review and endorsement before works can commence.

- Location of the proposed work zone;
- Haulage routes;
- Construction vehicle access arrangements;
- Proposed construction hours;
- Estimated number of construction vehicle movements;
- Construction program;
- Consultation strategy for liaison with surrounding stakeholders;
- Any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the construction of the proposed works;
- Cumulative construction impacts of projects including Sydney Light Rail Project;
- Existing CPTMPs for developments within or around the development site should be referenced in the CPTMP to ensure that coordination of work activities are managed to minimise impacts on the CBD road network; and
- Should any impacts be identified, the duration of the impacts and measures proposed to mitigate any associated general traffic, public transport, pedestrian and cyclist impacts should be clearly identified and included in the CPTMP.

In previous correspondence you have stated that the CPTMP for the domain works has already been endorsed by SCO however we are not able to find this endorsement. If you have a copy of the CPTMP and the endorsement please forward to me.

If you would like to discuss this further please call me.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office
Transport Coordination
Transport for NSW

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Level 44 680 George Street Sydney NSW 2000



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From: Hamid Tashkhisi [<mailto:hamid.tashkhisi@cardno.com.au>]
Sent: Friday, 14 December 2018 9:41 AM

To: Russell, Kaye; Mobayed, George
Cc: Tim Michel; Garry Neville; Choong, Chien; Lewis, Laura
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan

Hi Kaye,

Thanks for your time on the phone just now.

I hope our conversation has helped to clarify the issue.

As I mentioned, I am happy to come over to your office for a clarification meeting if required.

Cheers,
Hamid

Hamid Tashkhisi
CIVIL ENGINEER
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From: Russell, Kaye <Kaye.Russell@transport.nsw.gov.au>
Sent: Thursday, 13 December 2018 3:57 PM
To: Hamid Tashkhisi <hamid.tashkhisi@cardno.com.au>; Mobayed, George <George.Mobayed@transport.nsw.gov.au>
Cc: Tim Michel <Tim.Michel@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Choong, Chien <Chien.Choong@lendlease.com>; Lewis, Laura <laura.lewis@lendlease.com>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan

Hi Hamid

We are currently reviewing the CPTMP for the Watermans Quay and Barangaroo Avenue Access Gates and will endeavour to have a response to you by Wednesday next week.

Just to clarify your statement below that the CPTMP for the Public Domain works associated with the water front structures has already been assessed and endorsed by TfNSW and this current document is for the two temporary gates off Watermans Quay and Barangaroo Ave. If this is the case can you please forward us a copy of the CPTMP associated with the water front structures.

Regards

Kaye Russell
Transport Planning Project Manager
Sydney Coordination Office



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From: Hamid Tashkhisi [<mailto:hamid.tashkhisi@cardno.com.au>]
Sent: Thursday, 13 December 2018 1:02 PM
To: Mobayed, George
Cc: Russell, Kaye; Tim Michel; Garry Neville; Choong, Chien; Lewis, Laura
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan

Hi George,

Thanks for the response.

The CPTMP we have prepared and sent for endorsement is the one intended to address the condition of consent for the Public Domain works. The matters have been addressed in the previously reviewed CPTMPs and been updated in the amendment to address new gates (for Public Domain works).

Please advise If we need to rename the document or add to/amend the content.

Please call me should you require any information or have any questions.

Cheers,
Hamid

Hamid Tashkhisi
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From: Mobayed, George <George.Mobayed@transport.nsw.gov.au>
Sent: Wednesday, 12 December 2018 4:24 PM
To: Hamid Tashkhisi <hamid.tashkhisi@cardno.com.au>

Cc: Russell, Kaye <Kaye.Russell@transport.nsw.gov.au>; Tim Michel <Tim.Michel@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Choong, Chien <Chien.Choong@lendlease.com>; Lewis, Laura <laura.lewis@lendlease.com>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan

Hi Hamid,

Thanks. The SCO has previously reviewed the CPTMPs for:

- Stage 1B site are SSD 5897 – Block 4 Remediation Works
- SSD 6960 - Stage 1B Basement

From my discussions with you and Tim, the attached CPTMP for the access gates is a supplementary CPTMP to the those mentioned above. We will review this and provide feedback/endorsement.

For the Public Domain Works – SSD 7944, we would require a CPTMP for review and endorsement. Condition from the consent is below:

Construction Pedestrian and Traffic Management Sub-Plan

14. Prior to the commencement of works, a **Construction Pedestrian and Traffic Management Sub-Plan** (CPTMP) prepared by a suitably qualified person, shall be submitted to the PCA. The Plan must be prepared in consultation with RMS, TNSW and the CBD Coordination Office.

The Sub-Plan must include a Green Travel Plan for workers and detailed measures that would be implemented to minimise the impact of the development on the safety and capacity of the surrounding road network, minimise truck movements to and from the site as far as practicable during the peak periods of this consent. In addition, the CPTMP shall address, but not be limited to, the following matters:

- a) location of the proposed work zone;
- b) haulage routes;
- c) construction vehicle access arrangements;
- d) proposed construction hours;
- e) estimated number of construction vehicle movements;
- f) details of construction activities and timing of these activities;
- g) consultation strategy for liaison with surrounding stakeholders;
- h) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the construction works;
- i) cumulative construction impacts of projects including Sydney Light Rail Project and Sydney Metro. Existing CPTMPs for developments within or around the development site should be referenced in the CPTMP to ensure coordination of work activities are managed to minimise impacts on the road network; and
- j) should any impacts be identified, the duration of the impacts and measures proposed to mitigate any associated general traffic, public transport, pedestrian and cyclist impacts must be clearly identified and included in the CPTMP.

A copy of the CPTMP, endorsed by the CBD Coordination Office, is to be provided to the Secretary and the BDA.

Regards,
George

George Mobayed
Principal Transport Planner
Sydney Coordination Office
Transport Coordination
Transport for NSW

M 0466 495 135
Level 44 680 George Street Sydney NSW 2000

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From: Hamid Tashkhisi [<mailto:hamid.tashkhisi@cardno.com.au>]
Sent: Wednesday, 12 December 2018 11:20 AM
To: Mobayed, George
Cc: Russell, Kaye; Tim Michel; Garry Neville; Choong, Chien; Lewis, Laura
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan
Importance: High

Hi George,

Following our last conversation, please note there are no more stages planned for the Barangaroo project.

Please also note the previous DAs that cover the Stage 1B site are SSD 5897 – Block 4 Remediation Works http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=5897. The DA conditions don't mention the Coordination office specifically, probably because it didn't exist when the DA was approved. SSD 6960 - Stage 1B Basement - also accessible on the NSW Planning website.

Please provide us with an expecting date for receiving the endorsement. Please let me know if you require further information.

Cheers,
Hamid

Hamid Tashkhisi
CIVIL ENGINEER
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From: Hamid Tashkhisi
Sent: Wednesday, 5 December 2018 8:51 AM
To: Mobayed, George <George.Mobayed@transport.nsw.gov.au>
Cc: Russell, Kaye <Kaye.Russell@transport.nsw.gov.au>; Tim Michel <Tim.Michel@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Choong, Chien <Chien.Choong@lendlease.com>; Lewis, Laura <laura.lewis@lendlease.com>

Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan [Filed 05 Dec 2018 08:51]
Importance: High

Hi George,

I failed to talk to you over the phone last few days and left messages. Could you please send me an update/status on the CTMP review process?

I really appreciate your assistance. Please call me should you require any further information.

Cheers,
Hamid

Hamid Tashkhisi
CIVIL ENGINEER
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From: Hamid Tashkhisi
Sent: Friday, 30 November 2018 2:50 PM
To: Mobayed, George <George.Mobayed@transport.nsw.gov.au>
Cc: Russell, Kaye <Kaye.Russell@transport.nsw.gov.au>; Tim Michel <Tim.Michel@cardno.com.au>; Garry Neville <Garry.Neville@cardno.com.au>; Choong, Chien <Chien.Choong@lendlease.com>; Lewis, Laura <laura.lewis@lendlease.com>
Subject: RE: Lendlease Project - Barangaroo South - Construction Traffic Management Plan [Filed 30 Nov 2018 14:50]

Hi George,

Please find attached Transport Assessment and Construction Traffic Management Strategy for your information and consideration. Regarding your points below, CTMP for the access gates is related to SSD 7944 and is supplementary to the attached CTMP covering the Stage 1B.

Please call me should you have any questions or require further information.

Cheers,
Hamid

Hamid Tashkhisi
CIVIL ENGINEER
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From: Mobayed, George <George.Mobayed@transport.nsw.gov.au>
Sent: Thursday, 29 November 2018 12:06 PM
To: Hamid Tashkhisi <hamid.tashkhisi@cardno.com.au>
Cc: Russell, Kaye <Kaye.Russell@transport.nsw.gov.au>
Subject: FW: Lendlease Project - Barangaroo South - Construction Traffic Management Plan
Importance: High

Hi Hamid,

Thanks for your time today. I've searched our database for a CPTMP for the subject Barangaroo Public Domain Works SSD 7944 and cannot find one. Condition 14 of the project approval requests that a CPTMP be prepared for the works in consultation with the Sydney Coordination Office (formerly CBD Coordination Office) and endorsed by the Sydney Coordination Office.

I assume the attached CPTMP for the access gates is related to the subject SSD but also to the other SSD developments which fall within the Stage 1B site extent. Is the purpose of the attached CPTMP to alter the construction traffic arrangements endorsed in the CPTMPs for the SSD developments within the Stage 1B site extent?

Regards,
George

George Mobayed
Principal Transport Planner
Sydney Coordination Office
Transport Coordination
Transport for NSW

M 0466 495 135
Level 44 680 George Street Sydney NSW 2000



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for NSW**

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From: Mobayed, George
Sent: Tuesday, 27 November 2018 1:45 PM

To: Russell, Kaye
Cc: McGill, Lisa
Subject: FW: Lendlease Project - Barangaroo South - Construction Traffic Management Plan
Importance: High

Hi Kaye,

This just came through. The CPTMP would need to be for the full public domain works development. It sounds like the CPTMP has been prepared for just the access gates, from the below email.

Regards,
George

George Mobayed
Principal Transport Planner
Sydney Coordination Office
Transport Coordination
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From: CBD Coordination
Sent: Tuesday, 27 November 2018 1:22 PM
To: Mobayed, George
Subject: FW: Lendlease Project - Barangaroo South - Construction Traffic Management Plan
Importance: High

Hi George,

Another one for you.

Ta
Dave

From: Hamid Tashkhisi [<mailto:hamid.tashkhisi@cardno.com.au>]
Sent: Tuesday, 27 November 2018 12:39 PM
To: CBD Coordination
Cc: Tim Michel; Garry Neville
Subject: Lendlease Project - Barangaroo South - Construction Traffic Management Plan
Importance: High

Dear Marg,

I failed to contact you via phone as could not find the right number. We are an engineering firm undertaking design for Lendlease in Barangaroo South project.

As part of the project's scope, we have prepared a Construction Traffic Management Plan (CTMP) for two temporary construction access gates. The report is attached for your kind review and advice. We have been advised to prepare/finalise this report "in consultation with CBD Coordination Office" as part of conditions of consent for the Public Domain development (also attached – refer page 20). Below is the snapshot for your quick reference.

Construction Pedestrian and Traffic Management Sub-Plan

14. Prior to the commencement of works, a **Construction Pedestrian and Traffic Management Sub-Plan** (CPTMP) prepared by a suitably qualified person, shall be submitted to the PCA. The Plan must be prepared in consultation with RMS, TNSW and the CBD Coordination Office.

The Sub-Plan must include a Green Travel Plan for workers and detailed measures that would be implemented to minimise the impact of the development on the safety and capacity of the surrounding road network, minimise truck movements to and from the site as far as practicable during the peak periods of this consent. In addition, the CPTMP shall address, but not be limited to, the following matters:

- a) location of the proposed work zone;
- b) haulage routes;
- c) construction vehicle access arrangements;
- d) proposed construction hours;
- e) estimated number of construction vehicle movements;
- f) details of construction activities and timing of these activities;

Could you please review the report and let us know what would be the consultation/acceptance process?

Please do not hesitate to call me should you have any questions or require further information.

Regards,
Hamid

Hamid Tashkhisi

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One Sydney Harbour Construction Traffic Management Plan

Barangaroo South

NA50613044

Prepared for
Lendlease Building

02 November 2020



Contact Information

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Date Approved: 06 December 2019

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01	27/09/2017	Draft for Client Review	TIM	
02	11/10/2017	Minor Amendments	TIM	
03	13/10/2017	Minor Amendments	TIM	
04	16/11/2017	Minor Amendments	MKH	Michael Hodges
05	21/12/2017	Minor Amendments	TIM	Michael Hodges
06	05/03/2018	Amendments as requested by BDA	MKH	Michael Hodges
07	09/03/2018	Revised turning path sketches	TIM	Michael Hodges
08	16/04/2018	Section 8 Updated	MKH	Michael Hodges
09	26/11/2018	Additional gate and compound for Waterfront Structures included	TIM	Garry Neville
10	15/05/2019	Gate 1 allows construction vehicles entering and exiting the Stage 1B site	Nabil Rahman	Hamid Tashkhisi
11	01/07/2019	Report amended to include Gate 3	Adrian Lu	Garry Neville
12	31/07/2019	Gate 3 notation amendment	Adrian Lu	Garry Neville
13	13/11/2019	Gate 3 and Hickson Rd staging amendment	Adrian Lu	
14	06/12/2019	Rename gates and Hickson Rd gates H2 and H3 included	Adrian Lu	
15	1/04/2020	Updated to reflect the current project name One Sydney Harbour, latest Gate arrangements and Towers	Adrian Lu	
16	24/04/2020	Update Gate H5 to suit entry and exit functions	Adrian Lu	
17	25/06/2020	Introduce Gate H7	Adrian Lu	
18	25/09/2020	Introduce Gate H1 and H6 Reverse Entry	Monica Laut	Rick Andrew
19	21/10/2020	Shift Gate H3 South by 10m	Monica Laut	Rick Andrew

20	30/10/2020	Introduce Pedestrian Gate H8	Rick Andrew	Rick Andrew
21	02/11/2020	Introduce Gate H10, H11 and H12	Rick Andrew	Rick Andrew

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1 Introduction

This report outlines a Construction Traffic Management Plan (CTMP) in support of eight (8) proposed temporary access gates off Hickson Road, Watermans Quay and Barangaroo Avenue, adjacent to the north-western corner of Tower One International Towers Sydney.

The proposed temporary access gates would be utilised as alternative points of access for construction vehicles during the completion of basement construction works, demolition and construction of waterfront structures and construction of public domain works within the Barangaroo South One Sydney Harbour (OSH) site.

1.1 Site Overview

The Barangaroo South OSH site is generally bound by the future Central Barangaroo development to the north, Hickson Road to the east, Watermans Quay to the south and Darling Harbour to the west. An overview of the site including three proposed gates is presented overleaf in **Figure 1-1**.

1.2 Report Objective

This CTMP has been prepared to document traffic management requirements for the proposed temporary access gate, including:

- > Construction vehicle routes;
- > Construction vehicle traffic generation;
- > Operating hours;
- > Access arrangements;
- > Likely impacts of the proposed access gates on the existing road network and pedestrian routes; and
- > Proposed mitigation measures to address any traffic impacts identified.

1.3 Reference Documentation

- > Arup, *Barangaroo Stage 1B Public Domain, Transport Assessment and Construction Traffic Management Strategy (Rev. B)*, 1 May 2017;
- > Arup, One Sydney Harbour – State Significant Development 6964 Building R4A – Transport Management and Accessibility Plan (TMAP), 28 July 2016;
- > Arup, One Sydney Harbour – State Significant Development 6964 Building R4B – Transport Management and Accessibility Plan (TMAP), 29 July 2016;
- > Arup, *Crown Sydney Hotel Resort, Construction Traffic Management Report*, Revision B, June 2015;
- > Lend lease, *Environmental Health and Safety (EHS) Requirements*;
- > Lendlease, *Global Minimum Requirements (GMR)*, February 2016 (GMRs 4.3 and 4.14);
- > *Work Health and Safety Act 2011*;
- > *Work Health and Safety Regulation 2017*; and
- > Australian Standard AS1742 *Manual of uniform traffic devices*.

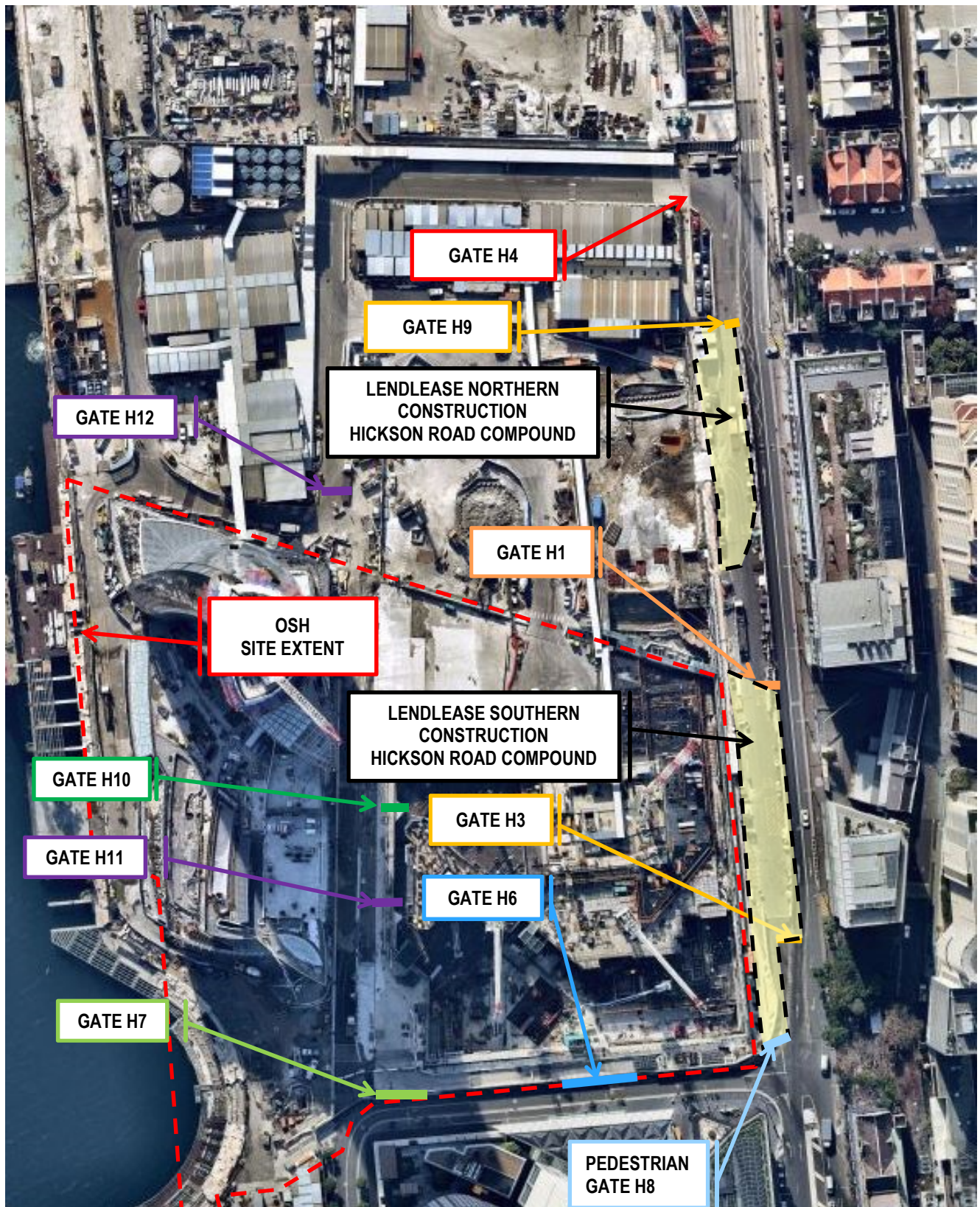


Figure 1-1 Barangaroo South OSH Site Overview

Source: nearmap (image dated 23/10/2018)

2 Site Conditions

2.1 Access

The main construction access to the OSH site is via the H4 gate off Hickson Road, approximately 260 metres north of Watermans Quay. The majority of construction traffic generated by the works on the OSH site will enter and exit the site via H4 gate.

2.1.1 Gate H7

The proposed Gate H7 is located at the corner of Watermans Quay and Barangaroo Ave and is intended to be utilised as a tertiary exit point for construction vehicles accessing the OSH site via Gates H10 and H11.

2.1.2 Gate H6

The proposed Gate H6 is located in the middle of Watermans Quay. The primary strategy is to utilise Gate H4 in-conjunction with Gate H6 as entry and/or egress access points respectively for construction traffic within the OSH site and parallel to Watermans Quay.

2.1.3 Gate H1, H9 and H3

The proposed Gates H1, H9 and H3 are located on Hickson Road and within close proximity of the Hickson Road/ Watermans Quay intersection, Gate H4 and the future Barton Street. The gates are intended to be utilised as a tertiary entry (Gate H3 and H9) and egress points (Gates H1 and H9) for construction vehicles travelling northbound along Hickson Road. Gate H9 is intended to also be used as entry for construction vehicles travelling southbound along Hickson Road.

2.1.4 Pedestrian Gate H8

The proposed Pedestrian Gate H8 is located on Watermans Quay at the intersection of Hickson Road. This gate is intended to provide pedestrian access to the Lendlease Construction Compound Site Office for construction workers.

2.1.5 Gate H10 and H11

The proposed Gates H10 and H11 are located off Barangaroo Avenue and is intended to be utilised as a tertiary entry point for construction vehicles accessing the OSH site, using Gate H7 as the exit point onto Watermans Quay.

2.1.6 Gate H12

The proposed Gates H10 and H11 are located off Barangaroo Avenue and is intended to be utilised as a tertiary entry/exit point for construction vehicles accessing the OSH site. Due to weight restrictions along Barton Street, Gate H12 provides access for construction vehicles to perform a U-turn movement to enter Gate H11 in a forward movement southbound along Barangaroo Avenue.

2.2 Road Network

Classifications for the existing roads near the OSH site are described in the following sections.

2.2.1 Hickson Road

Hickson Road is a local road and the principal access road for the Barangaroo South precinct. It spans the length of the Barangaroo Precinct, starting at Napoleon Street and extending through to Millers Point and The Rocks as far as the Overseas Passenger Terminal, a distance of approximately 2 kilometres. Hickson Road is a two-way two-lane carriageway (one lane in each direction). Hickson Road provides direct access to a number of commercial premises including the Sydney Theatre Company and the Pier One Sydney Harbour Hotel, as well as a number of cafés and restaurants. Pedestrian facilities are provided along the length of Hickson Road with the carriageway width also allowing sufficient space for on-street parking. A posted speed limit of 40 km/h applies to Hickson Road, due to current roadworks.

Hickson Road is currently subject to temporary lane realignments due to OSH construction zones currently underway. Two lanes of traffic will be maintained at all times during these works.

2.2.2 Watermans Quay

Watermans Quay is a local road that runs east-west through the Barangaroo South precinct, perpendicular to Hickson Road. It connects to Barangaroo Avenue, which becomes Lime Street to the south, providing pedestrian access to International Towers Sydney Tower One and vehicular access to the basement that services the Barangaroo South commercial precinct. Watermans Quay is a two-way street with one lane in each direction. A footpath is present on the south side only. A concrete barrier wall extends along with the majority of the northern side of Watermans Quay. A posted speed limit of 40 km/h applies to Watermans Quay.

Due to the road and lane widths at the intersection of Watermans Quay and Barangaroo Avenue, no left turn for vehicles over 12.5 metres are permitted from Hickson Road onto Watermans Quay. This limit will need to be amended to permit vehicles up to a 19m articulated truck to turn left from Hickson Road onto Watermans Quay and onwards to the proposed Watermans Quay access.

The Watermans Quay road pavement has been designed for T44 traffic loadings and there are no specific weight limits applicable to the road.

2.2.3 Barangaroo Avenue

Barangaroo Avenue is a local road that runs north-south through the Barangaroo South precinct. It extends between proposed Barton Street and Lime Street, providing access to commercial premises within the Barangaroo South precinct and vehicular access to the basement that services the two residential apartment buildings adjacent to Wulugul Walk / Darling Harbour. Barangaroo Avenue is a two-way street with one lane in each direction. Footpaths are present on both sides of the road. A posted speed limit of 40 km/h applies to Barangaroo Avenue.

3 Proposed Works

3.1 General

There are various phases of works for which the proposed Gate H4 will be in place:

- > Construction of a four-level basement (up to 18 metres below existing ground level), for which approval was granted under SSD 6960;
- > Construction of Towers R1 & R2 within the OSH site. These works are undertaken in accordance with SSD 6964 and 6965; and
- > Construction of public domain works within the OSH site, including (among other works) widening of Watermans Quay, extension of Barangaroo Avenue, and construction of Hickson Park above the OSH basement. These works undertaken in accordance with SSD 7944.

Gate H1, H3, H6, H7, H9, H10, H11 and H12 will be used during the following phases of works:

- > Excavation and construction of the four-level basement (up to 18 metres below existing ground level);
- > Construction of Towers R1 and R2 within the OSH site; and
- > Construction of public domain works within the OSH site.

3.2 Concurrent Works

A number of other projects that are being or will be undertaken concurrently to the works on the OSH site. These include:

- > OSH basement and tower construction;
- > Crown Sydney Hotel;
- > Hickson Road / Sussex Street upgrade works; and
- > Sydney Metro works between Barangaroo Reserve and Central Barangaroo.

The loading dock/basement entry driveway for International Towers Sydney (ITS) is located off Watermans Quay and will remain operational throughout the duration of the proposed works. All construction traffic entering Watermans Quay would need to avoid queueing across the driveway to minimise the impact on traffic that utilises the basement. This could be achieved by 'Keep Clear' linemarking on Watermans Quay adjacent to the driveway, signage or traffic management.

3.3 Program

An indicative program for the proposed works on the OSH site is outlined below:

Table 3-1 Indicative Program for OSH works

Scope	Indicative Timing ¹
OSH Basement Works	June 2019 to December 2020 (17 months total)
OSH Public Domain Works	June 2019 to February 2021 (19 months total)
OSH R1 Tower	May 2020 to October 2023
OSH R2 Tower	December 2020 to April 2024
Crown Sydney Hotel Resort	June 2017 to February 2021 (32 months total)
Waterfront Structures (CC1 under SSD 7944)	November 2018 to November 2019
Public Domain (CC2 under SSD 7944)	December 2019 to December 2020

¹ The above dates are indicative only and subject to change

4 Construction Vehicles

4.1 Principles

The following overall construction traffic management principles would apply to the proposed access gates:

- > When in use, the access gate would be managed and controlled by site personnel at all times;
- > The safety of the public in the vicinity of the gate (vehicular, cyclist and pedestrian traffic) is to be maintained at all times; and
- > A safe and convenient environment is established and maintained at all times for pedestrians along the southern side of Watermans Quay opposite the proposed access gate. No pedestrian access currently exists on the north side of Watermans Quay.

The following specific principles will apply to the gates:

- > Gate H10, H11 and H12 will be used as an access and egress point only for 'clean' (uncontaminated) vehicles. The gate will be used under the following conditions:

1. For staging of works and associated deliveries; and
2. For structure works including concrete pumps and concrete deliveries.

Gate H10, H11 and H12 is designed to allow trucks (up to 19m articulated vehicles) travel in a forward direction to enter from and exit onto Watermans Quay without significantly affecting the Watermans Quay/ Hickson Road intersection. Gate H7 is designed to allow trucks (up to 19m articulated vehicles) travel in a forward direction to exit onto Watermans Quay without significantly affecting the Watermans Quay/ Hickson Road intersection. Refer to **Section 6** of this Report for traffic impact and mitigation measures. All usage of Gate H10, H11, H12 and H7 will be subject to the loading constraints on the public road network.

- > The primary strategy is to utilise Gate H6 as entry and egress points for construction traffic travelling parallel to Waterman Quay. Gate H6 is designed to allow trucks (up to 19m articulated vehicles) to exit in a forward direction onto Watermans Quay before the intersection of Watermans Quay and Hickson Road. 11m rigid trucks will also be able to reverse into Gate H6 from travelling eastbound along Watermans Quay. The 19m semi-trailer can adequately manoeuvre through Gate H6 without significantly affecting the Watermans Quay/ Hickson Road intersection, however the reverse entry movement by an 11m rigid vehicle will require traffic control. Refer to **Section 6** of this Report for traffic impact and mitigation measures. All usage of Gate H6 will be subject to the loading constraints of the Western Deck, the adjacent access sliver above the shoring pile and the public road network.

Gate H6 can also operate as a tertiary entry point for construction traffic during non-peak hours if concurrent construction works dictate the requirement. Refer to **Section 4.3** for construction operation hours. Gate H6 allows for light vehicles (up to a 10m concrete truck) to enter westbound from Watermans Quay.

- > Gates H1, H9, H3 are designed for trucks (up to 19m articulated vehicles) travelling northbound along Hickson Road. Gates H1, H9 and H3 are mainly used as a points of access once the ground plane slab within the western portion of the OSH Basement is complete. All relevant construction vehicles, up to and including 19m articulated vehicles, can adequately manoeuvre through Gate H3 without requiring local traffic control, affecting Hickson Road traffic and the Watermans Quay/ Hickson Road intersection. Similarly, these construction vehicles will have the same impact when turning out of Gate H1 and H9 and into Gate H4. In order to avoid vehicles from queuing across the intersection of Hickson Road and Watermans Quay, Gate H3 will be open when vehicles are entering the construction compound. Refer to **Section 6** of this report for traffic impact and mitigation measures. Traffic control is to be used to stop traffic in both north bound and southbound direction to allow northbound construction vehicles to perform a U-turn to enter Gate H9. Traffic control will be utilised to control southbound entry into Gate H1 and northbound exit from Gate H9 onto Hickson Road.
- > Pedestrian Gate H8 is designed for construction pedestrian access to the site offices, in accordance with AS1742.10-2009. The Lendlease site offices are to be located in the southern construction compound,

bordered by Watermans Quay to the South, Barton Street to the North and Hickson Road to the East. A zebra crossing on Watermans Quay and pedestrian access gate H8 have been designed to provide safe access to the site offices for pedestrians. Access to this gate via is delineated using pedestrian barrier fencing to create a corridor leading up to the pedestrian crossing from the southern side of Hickson Road, including Stop Linemarking and “NO PUBLIC ACCESS” Pavement Text. “NO PUBLIC ACCESS” and “RESTRICTED PUBLIC ACCESS: PEDESTRIAN CROSSING FOR CONSTRUCTION ACCESS ONLY” signage is also provided at the entrance to the pedestrian corridor that leads to the Watermans Quay crossing to prevent public access. Additional to these measures, retractable pedestrian tape will be implemented to prevent pedestrian access during out of hours. Gate H8 is set back 1.5m from the northern end of the pedestrian crossing to allow safe refuge from passing vehicles for pedestrians in the occurrence that the gate is closed and the pedestrian has crossed Watermans Quay. Gate H8 will be open during office hours.

4.2 Access and Egress

Throughout the duration of the works within OSH, construction vehicles will enter and egress the site primarily through the H4 gate off Hickson Road. The intent of Gate H10, H11, H12, H7 and Gate H6 is to provide secondary points of entry and/or exit to the site while maintaining the total forecast truck movements to the site. The H4 gate would remain the main point of entry and exit to the site.

The following daily two-way vehicle volumes are expected during the construction works:

- > OSH Basement Works ¹
 - Vehicle movements per hour: between 23 and 50
- > OSH Tower Works ²
 - Vehicle movements per hour: between 23 and 50
- > OSH Public Domain Works ³
 - Vehicle movements per hour: up to 8
- > Crown Sydney Hotel Resort
 - Vehicle movements per hour: between 6 and 10⁴
- > Waterfront Structure
 - Vehicle movements per hour: approximately 1 to 2

A breakdown of the forecast hourly two-way traffic volumes towards the existing H4 gate off Hickson Road, as well as the forecast movements apportioned between the H4 gate and proposed gates, are presented below in **Table 4-1**.

Table 4-1 Forecast Two-Way Hourly Traffic Volumes

Timeframe	Total Forecast Hourly Traffic Volume (H4 Gate) Lendlease and Crown	Apportioned Forecast Hourly Traffic Volume									
		H4 Gate Lendlease and Crown	Gate H12 Lendlease Traffic Only ²	Gate H10 Lendlease Traffic Only	Gate H6 Lendlease Traffic Only	Gate H7 Lendlease Traffic Only	Gate H9 Lendlease Traffic Only	Gate H11 Lendlease Traffic Only ³	Gate H12 Lendlease Traffic Only ³	Gate H3 Lendlease Traffic Only	Gate H1 Lendlease Traffic Only
January 2020 – Decemb er 2020	68	51	16	<1	1	1	<1	<1	<1	<1	<1

² Arup, *One Sydney Harbour SSD 6960, Stage 1B Basement Transport Management and Accessibility Plan*, Revision E, February 2016

³ Arup, *Barangaroo Stage 1B Public Domain, Transport Assessment and Construction Traffic Management Strategy*, Revision B, May 2017

⁴ Arup, *Crown Sydney Hotel Resort, Construction Traffic Management Report*, Revision B, June 2015

Vehicle movements via the proposed Gate H10, H11, H12 and H7 are expected to include (but may not be limited to):

- > Mobilisation/demobilisation deliveries;
- > Delivery of equipment and materials (in particular concrete and steel);
- > Waste collection; and
- > Empty vehicles that will be loaded with contaminated material to be exported off-site.

It is anticipated that approximately 30% of construction traffic entering and exiting the Lendlease site (excluding Crown movements) will utilise the Gates H10, H11, H12 and H7.

Vehicle movements via Gates H1, H9 and H3 are expected to include the following:

- > Mobilisation/demobilisation deliveries;
- > Delivery of equipment and materials (in particular concrete, steel and timber); and
- > Waste collection

Vehicle movements via the proposed Gate H6 are expected to include the following:

- > Mobilisation/demobilisation deliveries;
- > Delivery of equipment and materials (in particular concrete, steel and timber);
- > Secondary excavation spoil load out and removal; and
- > Waste collection.

Access routes to and from the site will be consistent with the CTMP for the OSH Works. In general, access and exit routes for the OSH site will be along the following routes:

- > Access from the north via York Street, Erskine Street and Sussex Street / Hickson Road;
- > Exit towards the north along Hickson Road and Kent Street, then onto the Bradfield Highway;
- > Access from the south and east via the Cross City Tunnel, Harbour Street, Wheat Road, Shelley Street, Erskine Street and Sussex Street;
- > Exit towards the south via Sussex Street, Bathurst Street, Elizabeth Street and towards Anzac Parade;
- > Access from the west via the Western Distributor, Wheat Road, Shelley Street, Erskine Street and Sussex Street; and
- > Exit towards the west via Hickson Road, Kent Street, Erskine Street, Sussex Street, Market Street and onto the Western Distributor.

4.3 Hours of Construction

The construction hours proposed, during which the proposed gates may be in use, will be as follows:

- > Monday to Friday: 7 am to 6 pm;
- > Saturday: 7 am to 5 pm;
- > Sunday / Public Holidays: Closed (no construction work).

In addition, the following restrictions during the hours of construction should apply:

- > No Stop / Slow signage during peak traffic periods Monday to Friday (7 am to 9 am and 4 pm to 7 pm);
- > No truck movements via York Street during heavy traffic periods Monday to Friday (6 am to 10 am and 2 pm to 8 pm); and
- > No use of Gate H6 for site entry purposes during peak traffic periods Monday to Friday (7 am to 9 am and 4 pm to 7 pm);

4.4 Parking and Layover

If there are delays and congestion within the OSH site and the site is unable to continue accepting construction vehicles, an area within the site should be identified where heavy vehicles may park. When the OSH site cannot accommodate additional construction vehicles, layover areas such as relevant supplier's depots or contractor's stabling areas outside the city centre are identified where trucks can wait until called to the site.

4.5 Traffic Generation

- > Heavy Vehicles
 - Daily truck movements would be timed to avoid morning and evening peak periods when vehicular and pedestrian traffic along Watermans Quay is greatest.
 - All exit movement will be via the H4 gate off Hickson Road and via Gate H7 off Watermans Quay.
- > Light Vehicles
 - There will be minimal impact associated with light vehicles. Generally, light vehicles will enter the site before the morning peak and exit the site before the evening peak.
- > Parking
 - As there is no parking on Watermans Quay, there will be no impact associated with loss of parking as a result of the proposed access gate.
- > Cyclists
 - There will be a negligible impact on cyclists, as Barangaroo Avenue and Watermans Quay is not a major cycling route. The majority of cyclists utilise Hickson Road.
- > Pedestrians
 - As there is no pedestrian path on the northern side of Watermans Quay, there will no impacts associated with pedestrian movements.
 - Pedestrians will continue to utilise the existing footpath on the southern side of Watermans Quay. Wayfinding signage will be installed on the hoarding adjacent to the northern end of Wulugul Walk to direct pedestrians across Barangaroo Avenue at Shipwright Walk and north towards Watermans Quay.
 - Construction pedestrian access to the site offices will be provided via pedestrian gate H8. Access to this gate via Hickson Road is delineated using pedestrian barrier fencing, including Stop Linemarking and "NO PUBLIC ACCESS" Pavement Text. "NO PUBLIC ACCESS" and "RESTRICTED PUBLIC ACCESS: PEDESTRIAN CROSSING FOR CONSTRUCTION ACCESS ONLY" signage is also provided at the entrance to the pedestrian corridor that leads to the Watermans Quay crossing to prevent public access.

Additional to these measures, retractable pedestrian tape will be implemented to prevent pedestrian access during out of hours”.

5 Drivers Code of Conduct

Management of vehicular access to and from the site is essential to maintain the safety of the general public as well as the labour force within the OSH site. The following code is recommended as a preliminary measure to inform safety standards:

- > Utilisation of only the designated transport routes into and out of the OSH site;
- > Haulage/construction vehicle movements are to abide by the requirements of the development consents for the various work packages, as well as requirements of BDA/ iNSW / Council and RMS.;
- > Lendlease will have specific site access requirements including truck access induction.

Specific requirements for vehicles entering the Watermans Quay access gate are outlined below:

- > Noise Minimisation
 - Compression braking should be avoided in the vicinity of the OSH site;
 - Given the existing signposted speeds on Hickson Road, Watermans Quay and Barangaroo Avenue, no further reduction in speed limit is proposed.
- > Delivery Standards
 - While no overflow is anticipated, vehicles arriving at the site are not permitted to park/queue on Watermans Quay, Barangaroo Avenue or Hickson Road at any time.;
 - All trucks delivering to the site are required to have an effective load covering;
 - All trucks are to utilise the shakedown or wash areas before leaving the site.
- > Transporting Materials
 - All materials transported to the site need to be managed relevant to what is being transported. If there is potential for an object to fall while being transported then this object must be appropriately secured;
 - Requirements for vehicles exiting the site will not apply, as the access gate will be for entries only.

In the case that a breach of conduct needs to be reported (e.g. a truck exceeding the speed limit, a spilt load), the following person should be contacted:

Murray Graham

Senior Site Manager

Lendlease

0438 839 444

Murray.Graham@lendlease.com

6 Mitigation of Traffic Impacts

This CTMP proposes to mitigate potential traffic impacts in the following ways:

- > Provision of signage recommendations to guide and warn motorists, cyclists and pedestrians of vehicles entering the proposed access gate. This would be incorporated into a Traffic Control Plan (TCP) that would be prepared by an appropriately qualified Traffic Controller;
- > Provision of traffic control on Barangaroo Avenue and Watermans Quay where applicable; and
- > Prohibit queuing on Hickson Road. Lendlease to provide adequate on-site layover area within the development site to ensure no construction vehicles queue on high traffic flow areas. Also, refer to Section 4.4 for additional parking and layover information.

6.1 Sight Distances

The line of sight to Watermans Quay for northbound vehicles on Barangaroo Avenue is restricted by the façade of the Tower One podium building which has impacts on some vehicle moves entering and exiting various gates nearby. In order to reduce the risk of potential collision with trucks utilising Gate with limited sight lines, traffic control will be required on the Barangaroo Avenue to warn northbound traffic and on Watermans Quay to warn traffic in both directions of turning movements in and out of the OSH site.

This includes:

- Vehicles exiting Gate H7 as demonstrated in **Figure 6-1**.
- Vehicles entering and exiting Gate H6 as demonstrated in **Figure 6-2 and Figure 6-3** (including reverse in movements).

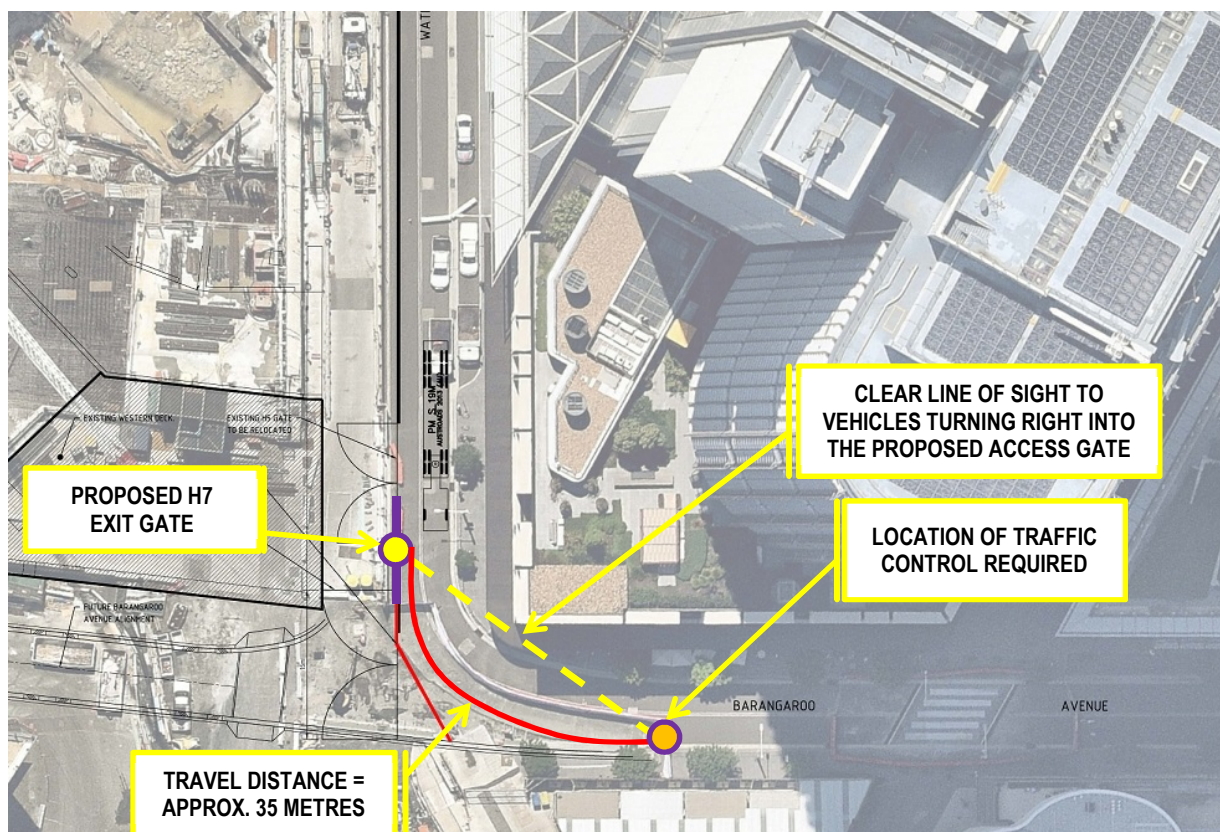


Figure 6-1 Gate H7 - Sightline for vehicles exiting the proposed access point

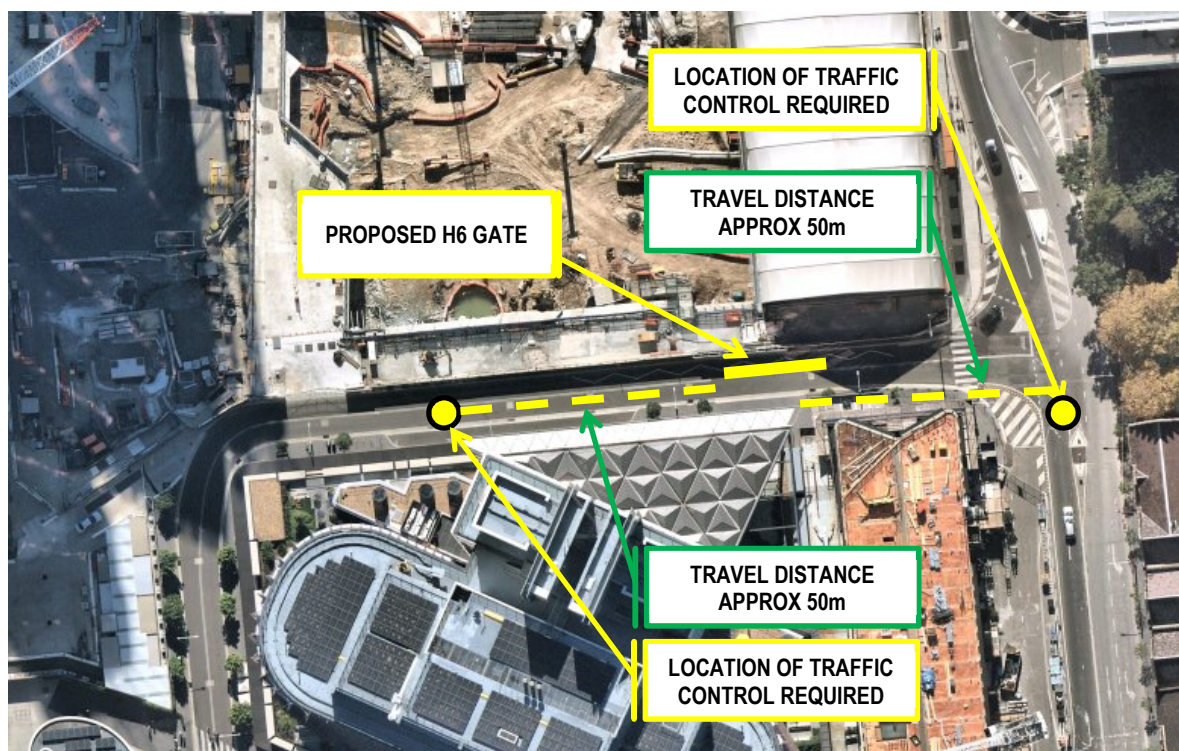


Figure 6-2 Gate H6 - Sightline for vehicles using the proposed access point with forward movement

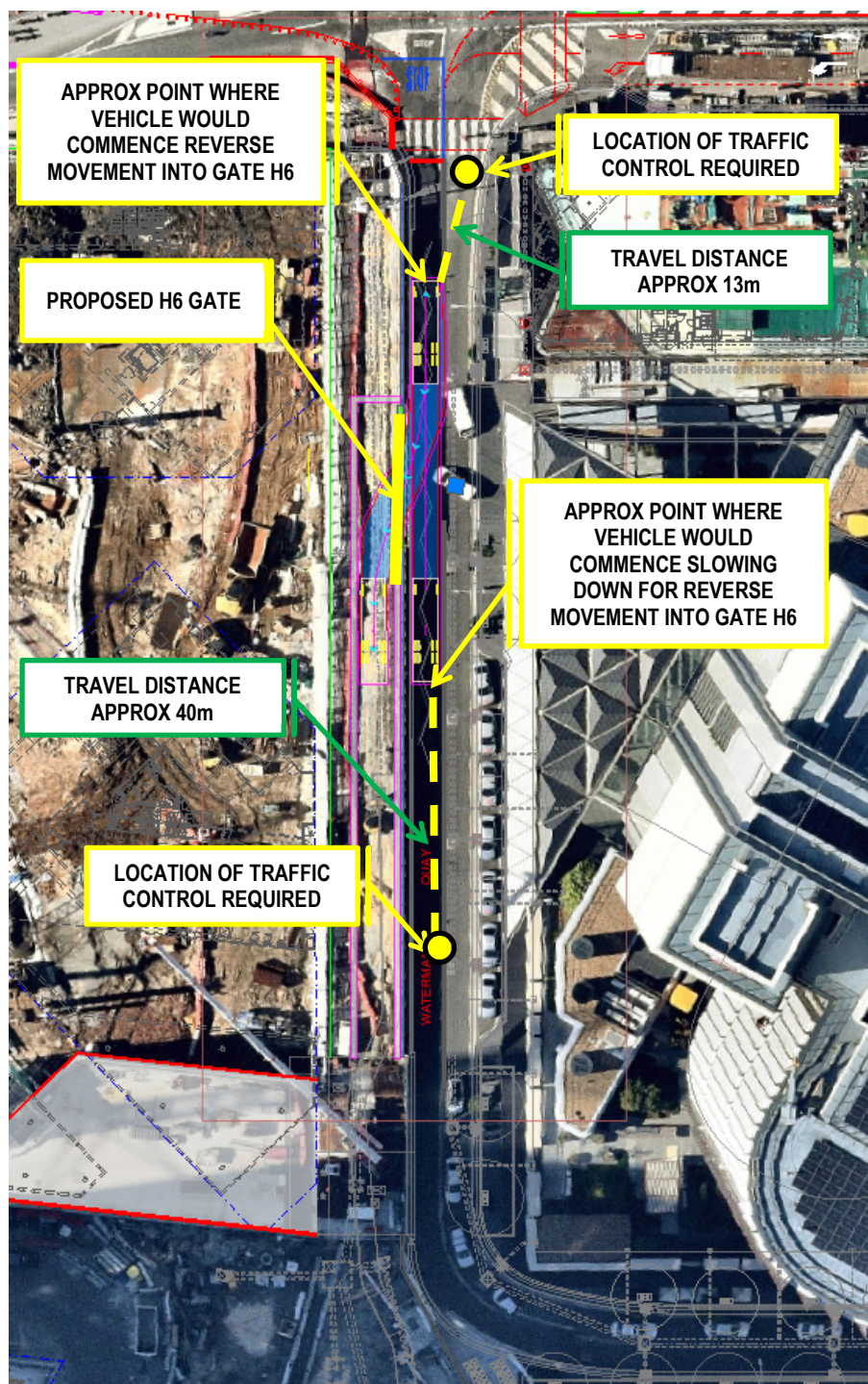


Figure 6-3 Gate H6 - Sightline for vehicles using the proposed access point with reverse movement

The line of sight to Hickson Road for northbound vehicles existing Gate H1 is restricted by the construction compound. In order to reduce the risk of potential collision with trucks utilising Gate H1 with limited sight lines, traffic control will be required on Hickson Road to warn northbound traffic of turning movements out of the OSH site for vehicle existing Gate H1 (as demonstrated in **Figure 6-4**).



Figure 6-4 Gate H1 - Sightline for vehicles exiting the proposed access point

The line of sight to Gate H10 and H11 on Barangaroo Avenue is unrestricted from the intersection of Watermans Quay/Barangaroo Avenue and Barton Street/Barangaroo Avenue. Northbound vehicles along Barangaroo Avenue entering Gate H10 are required to cross the southbound lane. In order to reduce the risk of potential collision with trucks utilising Gates H10 and H11, traffic control will be required on the Barangaroo Avenue to warn traffic in both directions on Barangaroo Avenue of turning movements into the OSH site (as demonstrated in **Figure 6-5**).

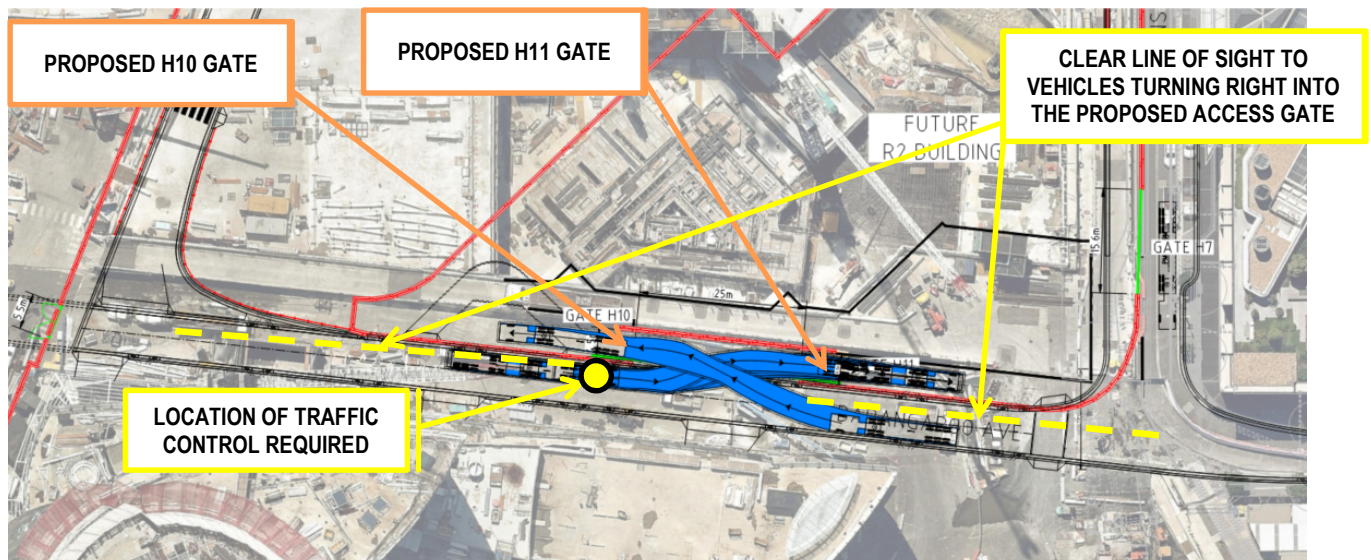


Figure 6-5 Gate H10 and H11 - Sightline for vehicles entering the proposed access point

Vehicles exiting and entering Gate H12 achieve site distances are greater than the minimum site distance as determined in Austroads Guide to Road Design Part 3: Geometric Design (2016). Traffic control is not required for this situation on the basis of sightlines, as demonstrated in **Figure 6-6**.

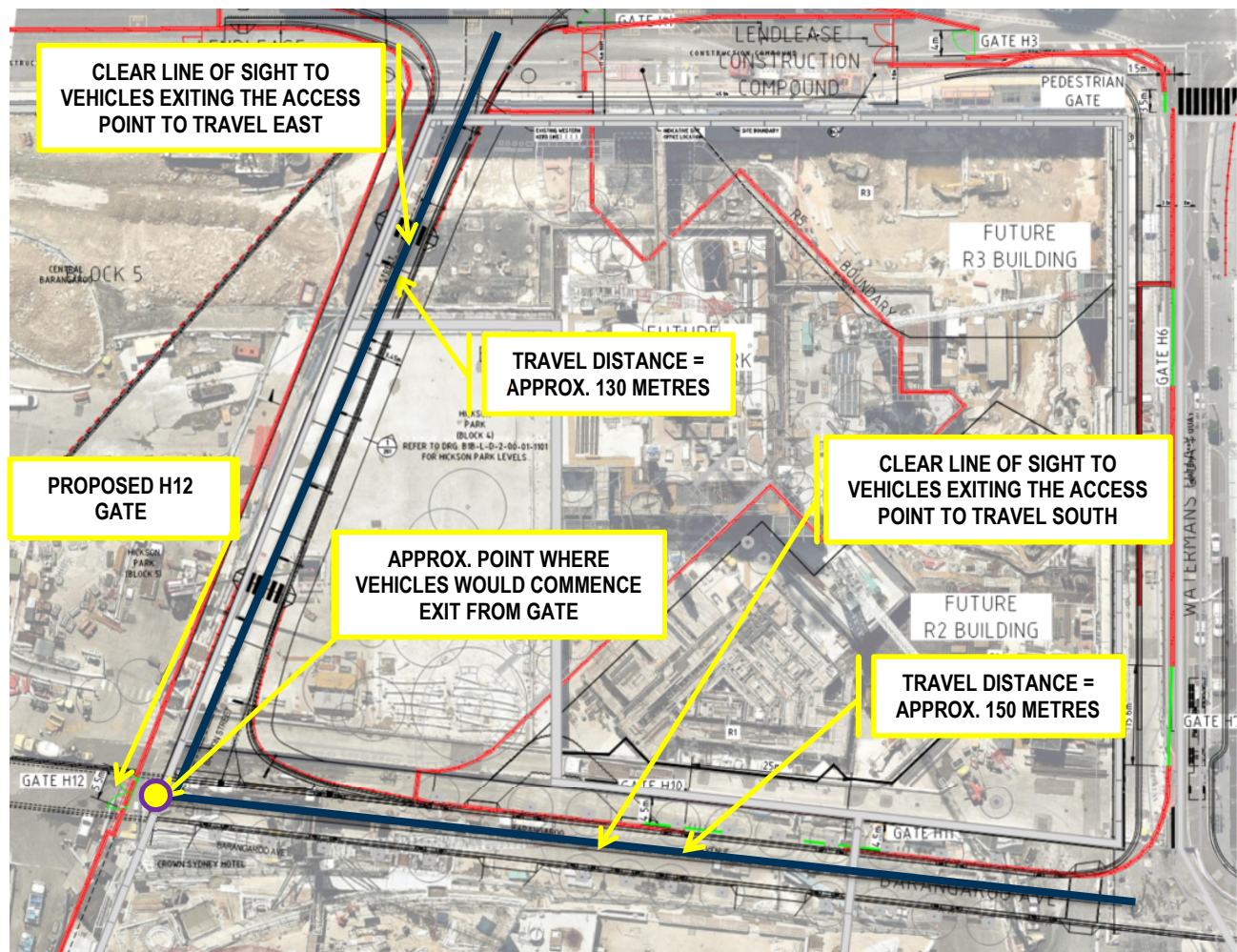


Figure 6-6 Gate H12 - Sightline for vehicles entering and exiting the proposed access point

6.2 Turning Paths

The swept path of a 19m Articulated Vehicle (AV) turning to enter into the Gate H10, H11 and H12 from Barangaroo Avenue are presented on drawings CTMP-SKC032 and CTMP-SKC033, refer to **Appendix C**.

The swept path of a 19m Articulated Vehicle (AV) turning left onto Watermans Quay and exiting out of Gate H7 is presented on drawing CTMP-SCK031, refer to **Appendix A**. This drawing shows the width of gate required to accommodate 19m AV.

The swept path of a 19m Articulated Vehicle (AV) and a 12.5m rigid vehicle turning left from Hickson Road into Watermans Quay are presented on drawings CTMP-SKC400 and CTMP-SKC401, refer to **Appendix B**. These drawings demonstrate a 12.5m vehicle can turn left without crossing the centrelines of Hickson Road and Watermans Quay.

The swept path of various design vehicles using Gate H6 is shown on drawing CTMP-SKC403 and CTMP-SKC463, refer to **Appendix D**. These drawings show the width and location of the gate required to accommodate the various vehicles in a forward direction, such as a 19m AV, and the reverse entry movement of an 11m rigid vehicle. The gate also accommodates the various Hickson Road temporary lane realignments and intersection arrangements. These drawings show the vehicles crossing the centreline of Watermans Quay. These movements will require local traffic control for the low frequency tertiary usage of Gate H6.

The swept path of a 19m AV travelling northbound along Hickson Road into Gate H3 and out of Gate H1 is presented on drawings 50613044-801 and the swept path of a 19m AV travelling northbound and southbound along Hickson Road in and out of Gate H9 is shown on 50613044-465 refer to **Appendix E**. These drawings demonstrate that a 19m rigid vehicle can enter the Lendlease Hickson Road southern construction compound

through Gate H3 and exit the Lendlease Hickson Road southern construction compound from Gate H1 Gate H1 in a forward direction, requiring local traffic control for vehicles exiting Gate H1 in a forward direction. These drawings demonstrate a 19m rigid vehicle can enter the Lendlease Hickson Road northern compound through Gate H9 upon entry from both northbound and southbound direction. These drawings also demonstrate a 19m rigid vehicle can exit Gate H9 in a forward direction travelling northbound along Hickson Road. Traffic control is required for all entry and exit movements.

6.3 Traffic Control Plan – Watermans Quay and Hickson Road access

TCP 01, 03, 04, 06, 09 AND 10 have been prepared to facilitate safe movement for construction vehicles to/from the site, using the proposed gates on Watermans Quay, Barangaroo Avenue and Hickson Road. Where vehicles are utilising the proposed access point, it is recommended that TCP be implemented to ensure safety is maintained. Two controllers will be required to control pedestrian movements around the site during the manoeuvring. Details of each TCP plan can be found in **Appendix G**.

7 Recommendations

There are a number of recommendations that should be implemented in order to effectively manage potential impacts associated with the proposed access gates:

- > Ensure appropriate traffic management procedures are in place at the gates and along Barangaroo Avenue while the gate is in operation;
- > Ensure signage is put in place to inform vehicles and pedestrians of the gate while it is in place;
- > No special provisions will be required for cyclists or buses; and
- > A Traffic Control Plan (TCP) will need to be prepared by an appropriately qualified Traffic Controller and will need to include a Traffic Control Diagram (TCD).

8 Lendlease Commitments

Lendlease is committed to providing a safe environment for all road users including cyclists, pedestrians, motorists and construction workers. To minimise disruption to the surrounding road network, existing basement access to Barangaroo South Stage 1A, existing taxi zones located on Watermans Quay, Lendlease commits to:

1. Minimise the use of Gate H10, H11 and H7 to an agreed apportionment of vehicular movements only;
2. Prohibit the use of Gate H6 as a site entry point during peak traffic hours Monday to Friday (7 am to 9 am and 4 pm to 7 pm);
3. Provide operational controls at the gates to ensure no vehicles queue on Watermans Quay;
4. Where the number of vehicles dictates and there is potential traffic congestion on Watermans Quay, operational controls will be provided at the Hickson Rd & Watermans Quay intersection. These will be coordinated with C1 (when in construction);
5. Utilise construction traffic counts at the gates to allow assessment of forecast truck movements and entry times against actual; and
6. Updating this Traffic Management Plan and any Traffic Control Plans as required to maintain and improve the management of vehicles and pedestrian movements.

9 Conclusion

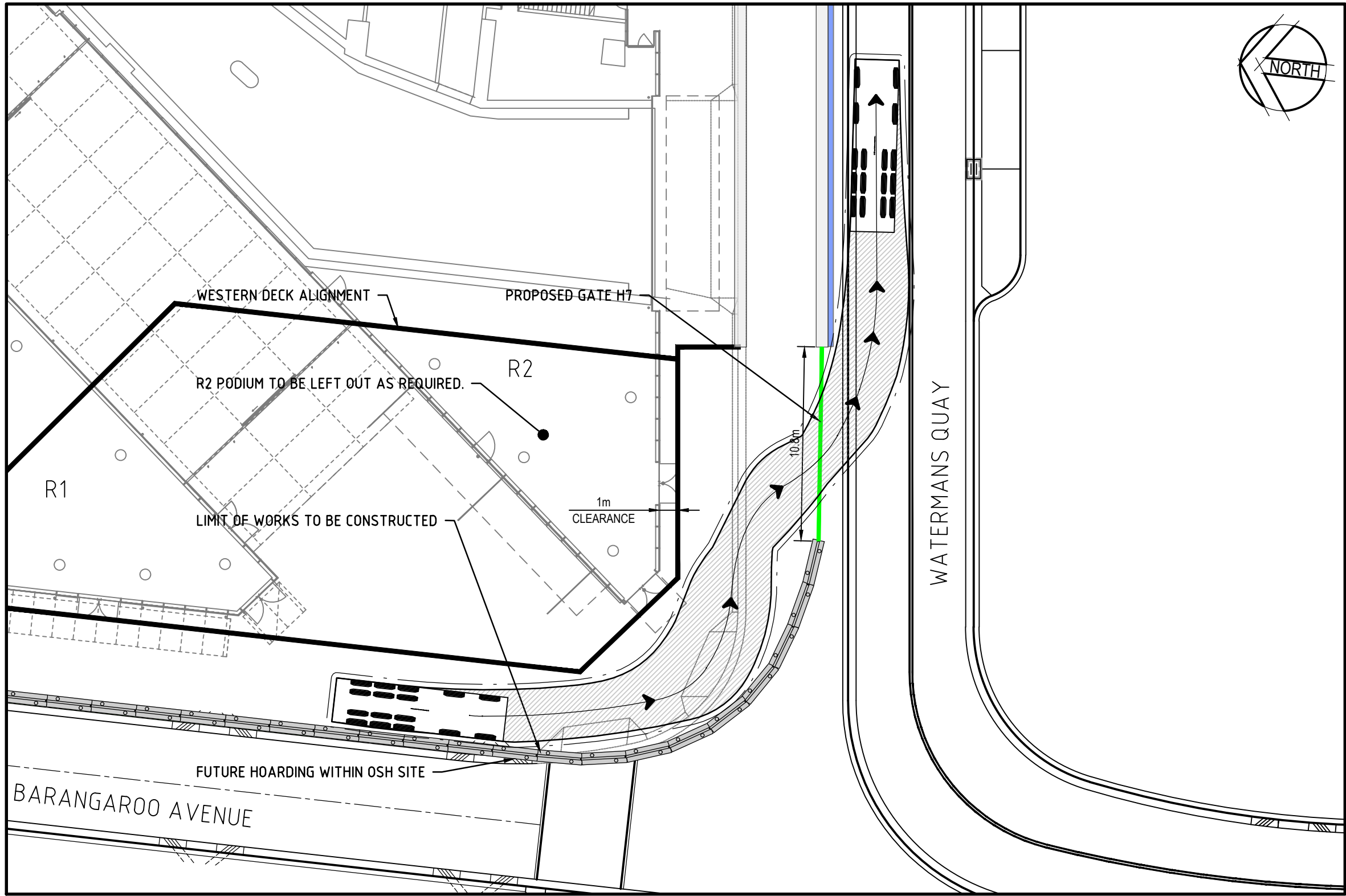
This CTMP provides guidance to ensure effective management of vehicles, pedestrians and other road users during operation of the proposed access gates to the OSH site off Watermans Quay.

The remainder of the proposed works within the OSH site is currently scheduled to be undertaken until December 2020 and will include completion of basement construction works and public domain works, and Tower construction.

Proposed Gates H1, H3, H6, H7, H8, H9, H10, H11 and H12 can be installed and operated as an alternate point of access to the OSH site, pending implementation of measures to mitigate potential risks to vehicle and pedestrian safety at Hickson Road, Watermans Quay and Barangaroo Avenue.

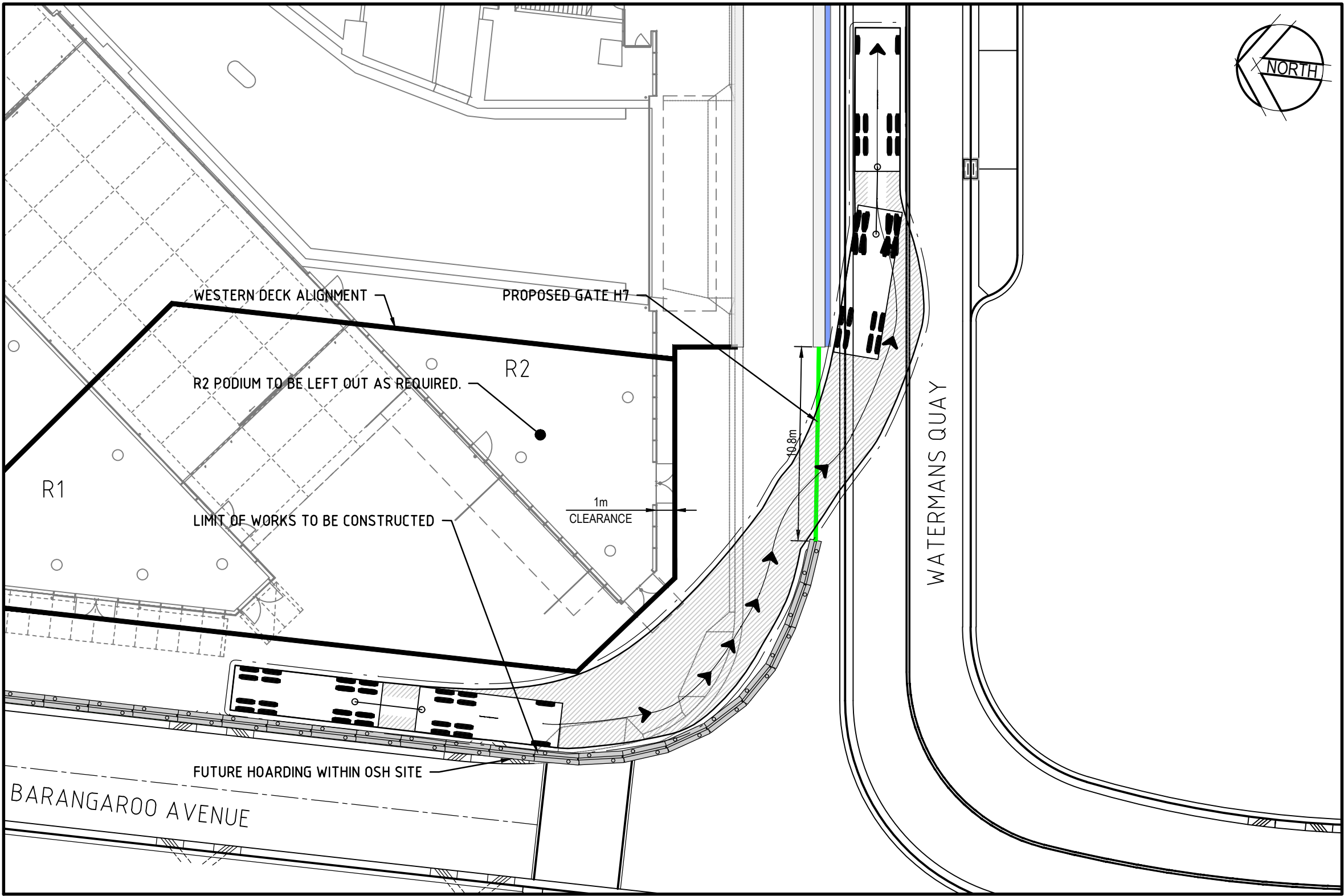
APPENDIX A

WATERMANS QUAY H7 ACCESS SKETCH PLAN AND TURNING PATH DIAGRAMS



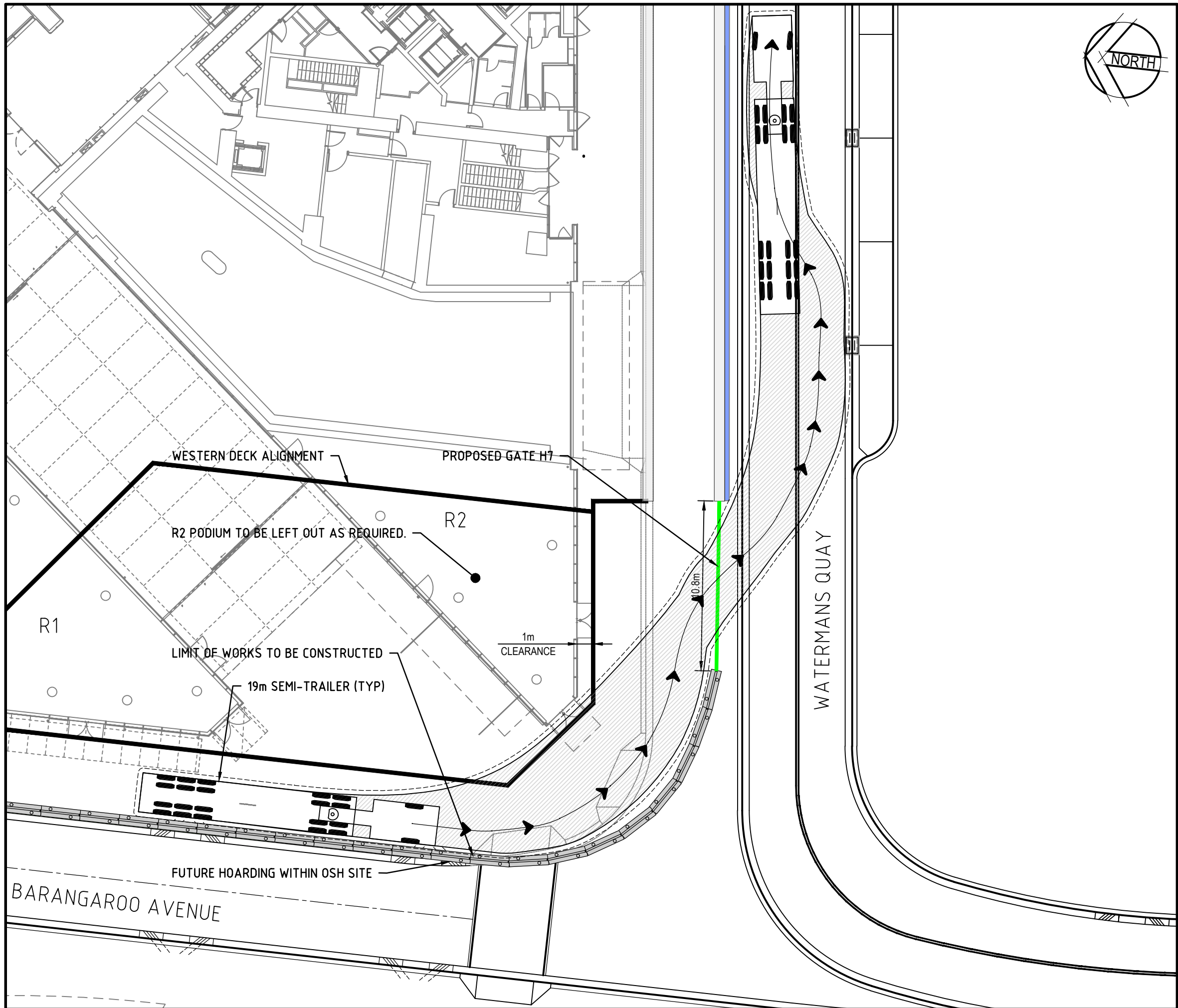
TWIN STEER CONCRETE AGITATOR EXIT FROM BARANGAROO AVENUE

SCALE 1:200



TRUCK AND SUPERDOG EXIT FROM BARANGAROO AVENUE

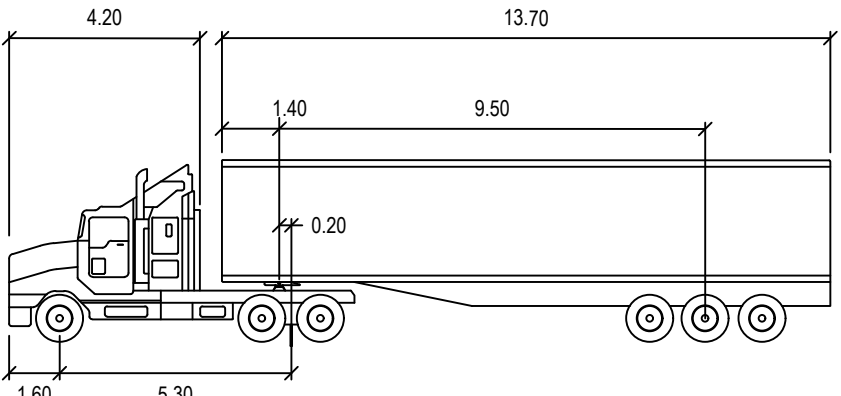
SCALE 1:200



19m SEMI-TRAILER GATE FROM BARANGAROO AVENUE

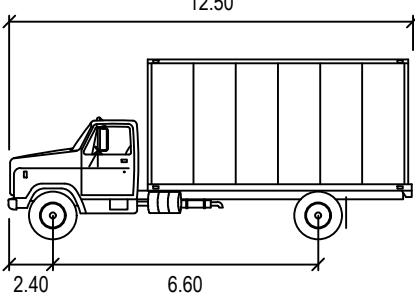
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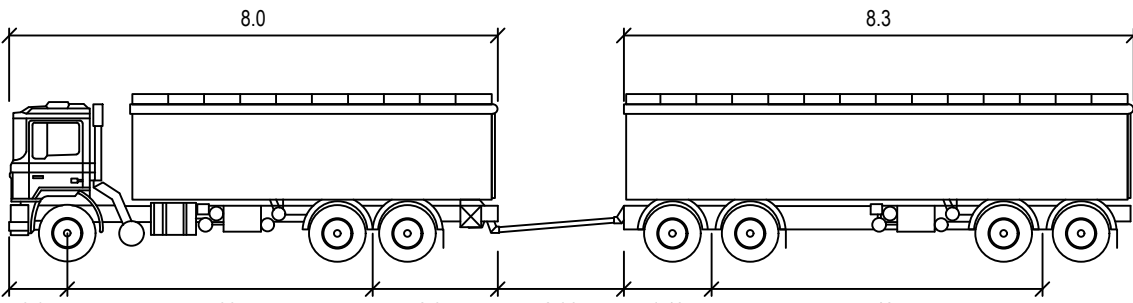
PM S 19M

TRACTOR WIDTH	: 2.50	LOCK TO LOCK TIME	: 6.0
TRAILER WIDTH	: 2.50	STEERING ANGLE	: 27.8
TRACTOR TRACK	: 2.50	ARTICULATING ANGLE	: 70.0
TRAILER TRACK	: 2.50		



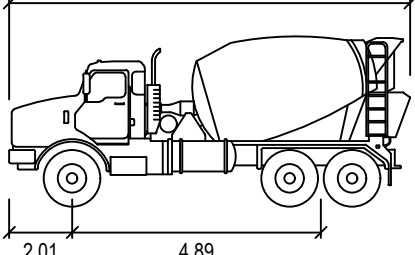
12.5m MEDIUM TRUCK

WIDTH	: 2.50
TRACK	: 2.50
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 35.2



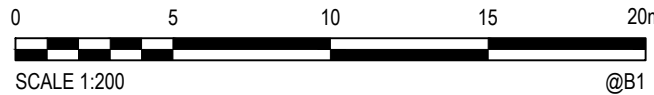
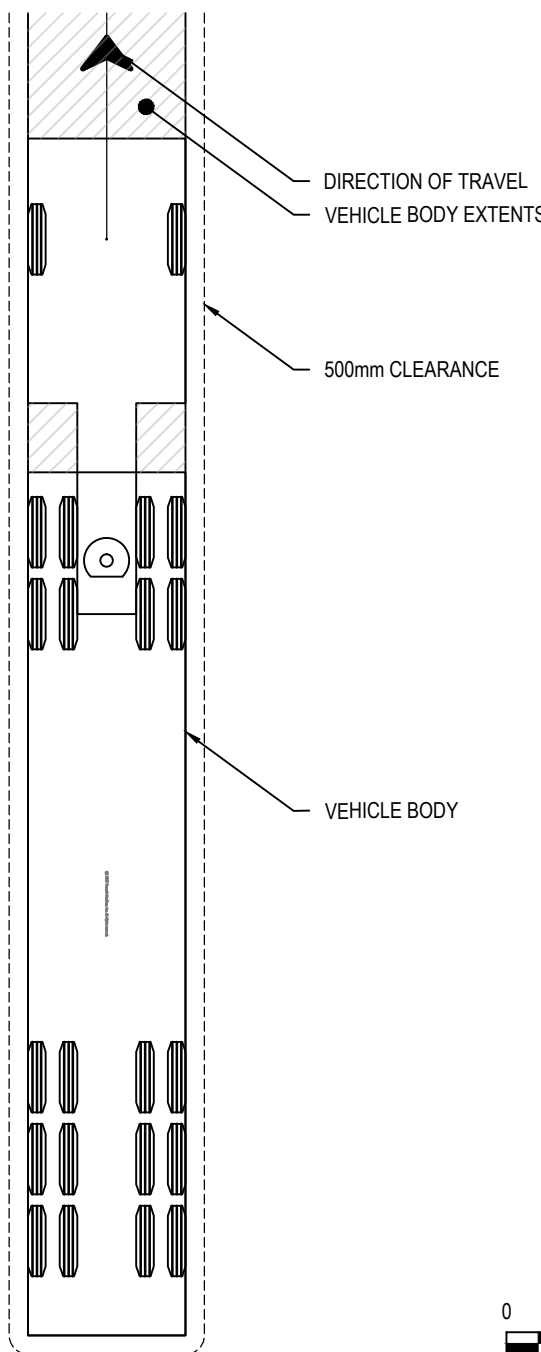
TRUCK AND SUPERDOG

TRACTOR WIDTH	: 2.50	LOCK TO LOCK TIME	: 6.0
TRAILER WIDTH	: 2.50	STEERING ANGLE	: 40.0
TRACTOR TRACK	: 2.25	ARTICULATING ANGLE	: 90.0
TRAILER TRACK	: 2.25		

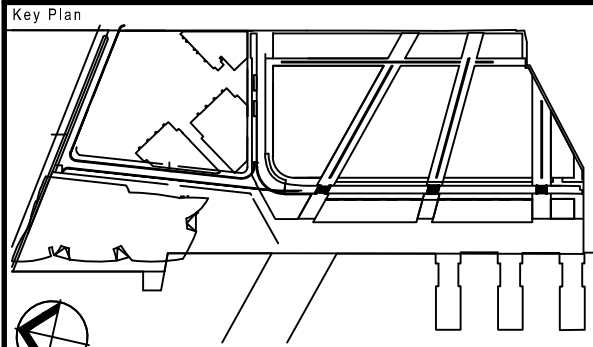


CONCRETE AGITATOR TWIN STEER 10W

WIDTH	: 2.45
TRACK	: 2.45
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 36.4



NOT TO BE USED FOR CONSTRUCTION PURPOSES



Rev.	Item	Revision Description	Date	Rev.	Item	Revision Description	Date
2		REMOVED GATE HS	02.11.20				
1		ISSUE FOR INFORMATION	25.06.20				

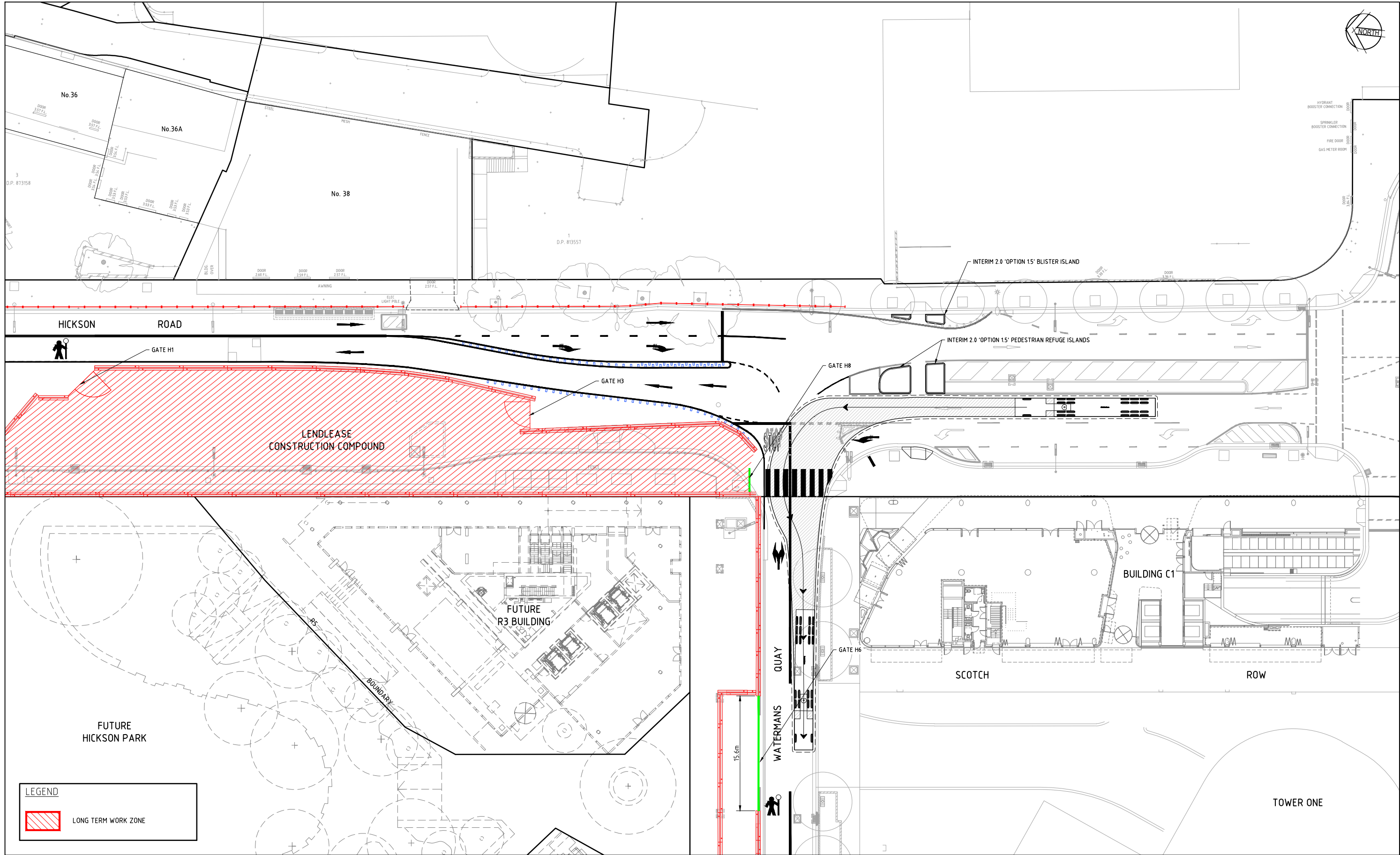
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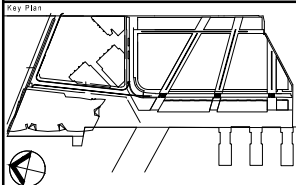
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Collaborating Architects	Lend Lease Graham W Jones Principal Architect FIRMA NSW ARB 4005 Sydney NSW 2000	Developer	Lend Lease			Drawn by	GJI
		Project Management & Construction	Lend Lease			Designed	AGL
		Design	Lend Lease			Checked	AGL
Consultant						Approved by	AGL
						Date	01.05.2020
						Scale	1:200
						Project No.	161804
						Site No.	CTMP-SKC031
						Ordering No.	
						Revision	2

APPENDIX B

WATERMANS QUAY AND HICKSON ROAD INTERSECTION TURNING PATH DIAGRAMS



NOT TO BE USED FOR CONSTRUCTION PURPOSES



Rev.	Item	Revision Description	Date
5	RE-ISSUED FOR INFORMATION		30.10.20
4	RE-ISSUED FOR INFORMATION		17.09.20
3	RE-ISSUED FOR INFORMATION		06.12.19
2	ISSUED FOR INFORMATION		13.11.19
1	ISSUED FOR INFORMATION		09.03.19

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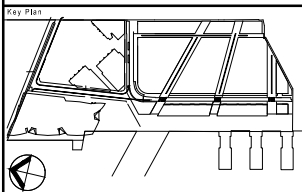
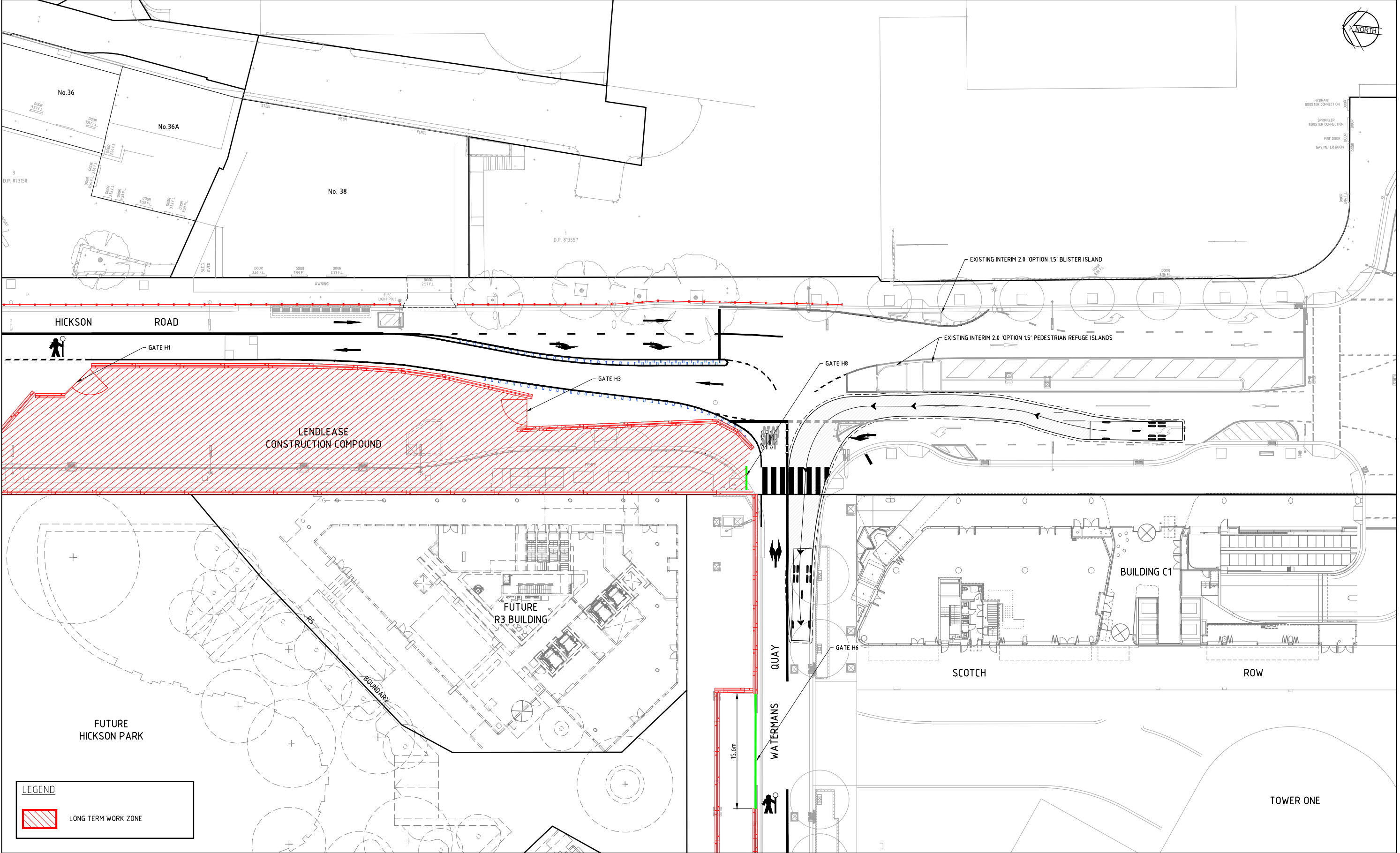


Lead Architects	RSHP Australia Pty Ltd Ben Harbour (Principal Architect) RAIA NSW ARB 8484 Sydney NSW 2000
Collaborating Architects	Lend Lease Graham Le Jones (Principal Architect) FPAIA NSW ARB 6405 ABN 97 030 088 162
Consultant	

Principal	
Developer	Lend Lease
Project Management & Construction	Lend Lease
Design	Lend Lease

Project	BARANGAROO SOUTH
MP	

Title	BARANGAROO COORDINATED CONSTRUCTION CTMP HICKSON ROAD INTERIM 2.0 (OPTION 15) 19m SEMI-TRAILER VEHICLE TURNING PATH
Drawn By	MDH
Designed	MDH
Checked	PFA
Approved By	
Date	
Scale	1:200
Project No.	161804
Site No.	CTMP-SK401
Revision	5

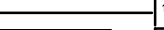


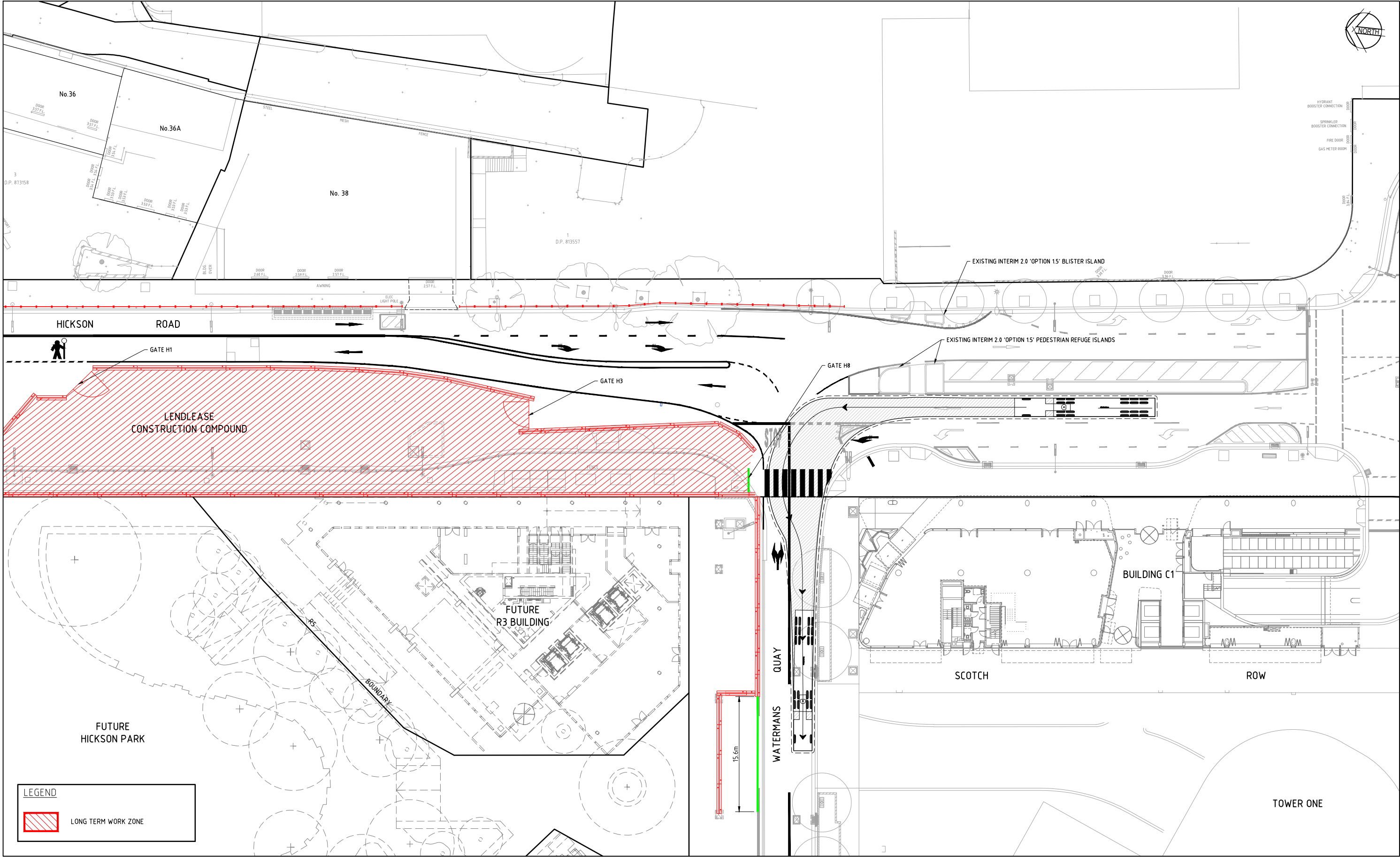
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4		RE-ISSUED FOR INFORMATION	30.09.20
3		RE-ISSUED FOR INFORMATION	17.09.20
2		RE-ISSUED FOR INFORMATION	06.12.19
1		ISSUED FOR INFORMATION	03.11.19

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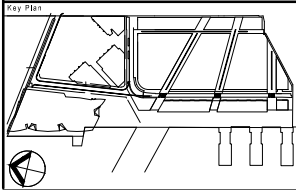
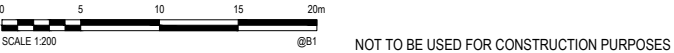
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Level 9, The Forum, 203 Pacific Highway
St Leonards, NSW 2065
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

Lead Architects	RSHP Australia Pty Ltd Ben Harbour Principal Architect RAIA NSW ARB 8484 Sydney NSW 2000	Principal		Project		Title	BARANGAROO COORDINATED CONSTRUCTION CTMP HICKSON ROAD INTERIM 2.0 12.5m HEAVY RIGID VEHICLE TURNING PATH					
Collaborating Architects	Lend Lease Graham W Jones Principal Architect FPAIA NSW ARB 6405 ABN 97 030 088 162	Developer	Lend Lease	Project Management & Construction	Lend Lease	Design	Lend Lease	Drawn By	Designed	Checked	Approved By	State
								MDH	MDH	RFA		
Consultant		30 The Bond 30 Hickson Road Millers Point NSW 2000 www.lendlease.com				Scale	1:200					
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Project No.							Site No.		Drawing No.		Revision	
161804							CTMP-SK4.06				4	



LEGEND

LONG TERM WORK ZONE



Rev.	Item	Revision Description	Date
5	RE-ISSUED FOR INFORMATION		30.10.20
4	RE-ISSUED FOR INFORMATION		17.09.20
3	RE-ISSUED FOR INFORMATION		06.12.19
2	ISSUED FOR INFORMATION		13.11.19
1	ISSUED FOR INFORMATION		09.03.19

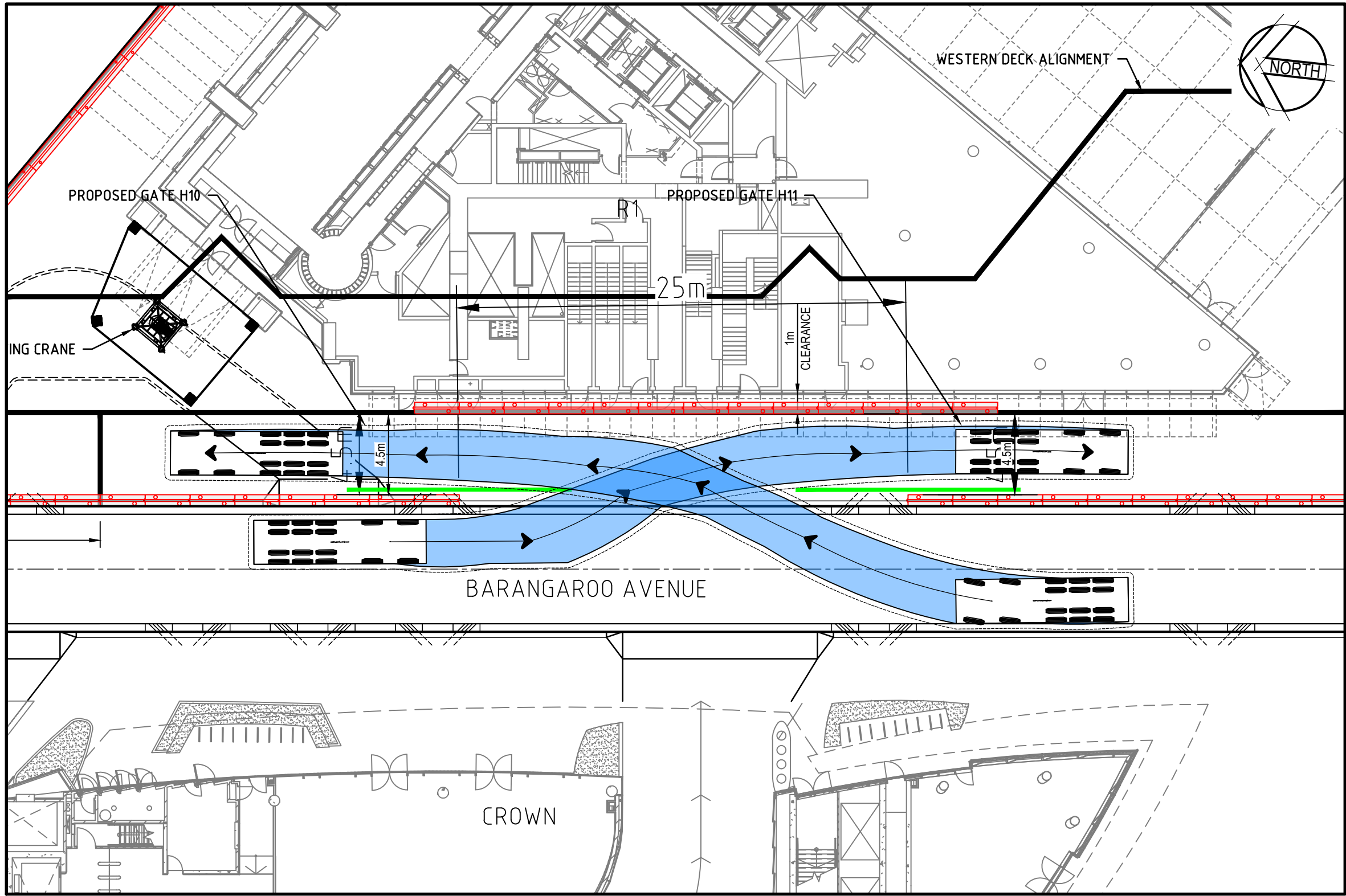
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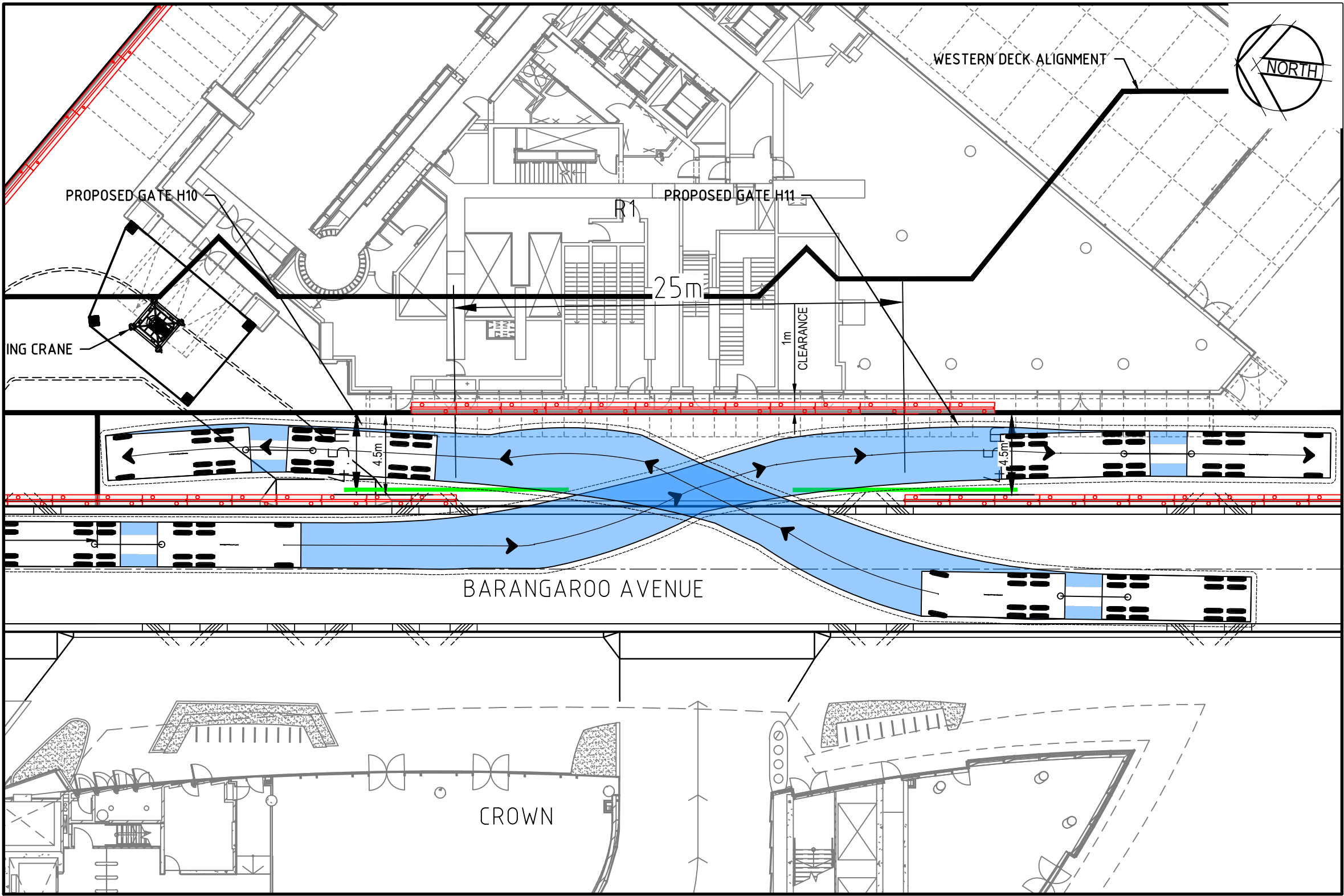
Lead Architects		Principal		Project		Title	
RSHP Australia Pty Ltd Ben Harbour Principal Architect RAIA NSW ARB 8484 Sydney NSW 2000				BARANGAROO SOUTH		BARANGAROO COORDINATED CONSTRUCTION CTMP HICKSON ROAD INTERIM 2.0 19m SEMI-TRAILER VEHICLE TURNING PATH	
Collaborating Architects		Developer		Lend Lease		Drawn By	
Lend Lease Graham W Jones Principal Architect FPAIA NSW ARB 6405 ABN 97 030 088 162		Project Management & Construction		Lend Lease		MDH MDH RFA	
		Design		Lend Lease		Approved By	
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Consultant						Project No.	
						161804	
						Title No.	
						CTMP-SK407	
						Revision	
						5	

APPENDIX C

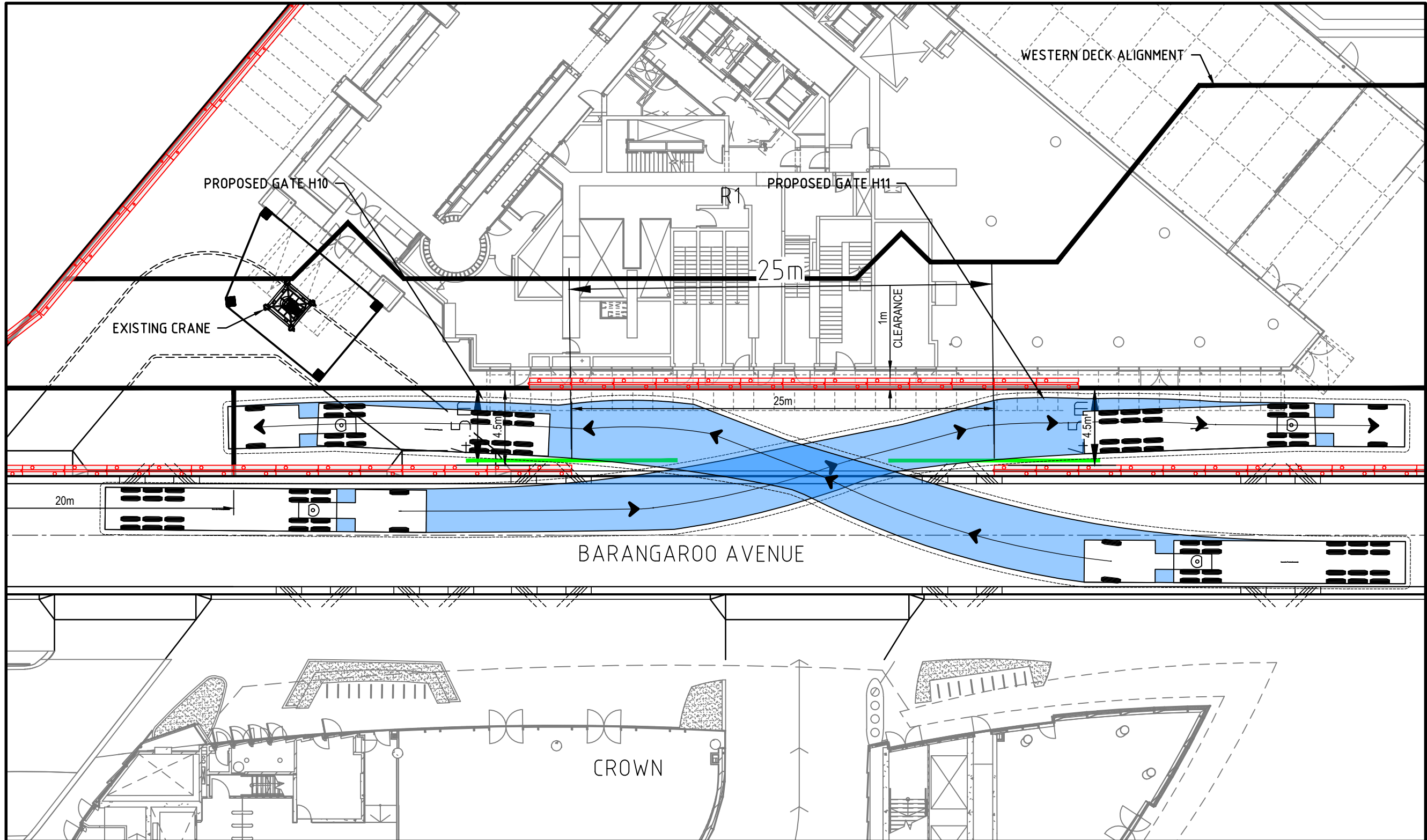
BARANGAROO AVENUE GATE H10, H11 AND H12 ACCESS SKETCH PLAN



TWIN STEER CONCRETE AGITATOR EXIT FROM BARANGAROO AVENUE
SCALE 1:200

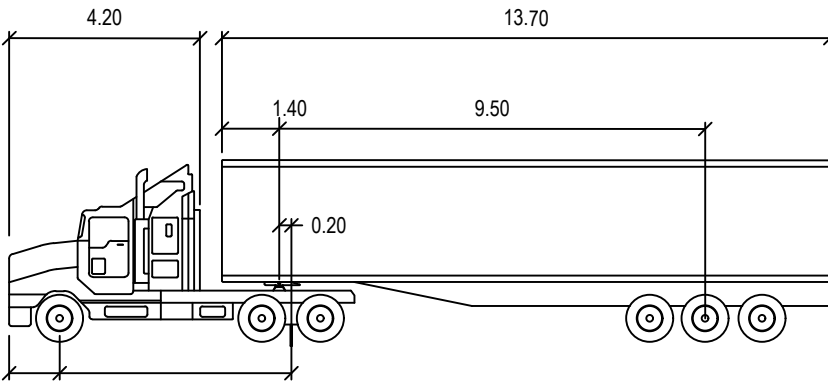


TRUCK AND SUPERDOG EXIT FROM BARANGAROO AVENUE
SCALE 1:200



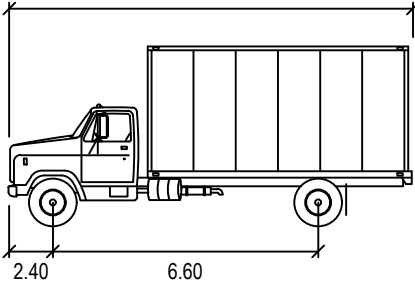
19m SEMI-TRAILER GATE FROM BARANGAROO AVENUE
SCALE 1:200

LEGEND



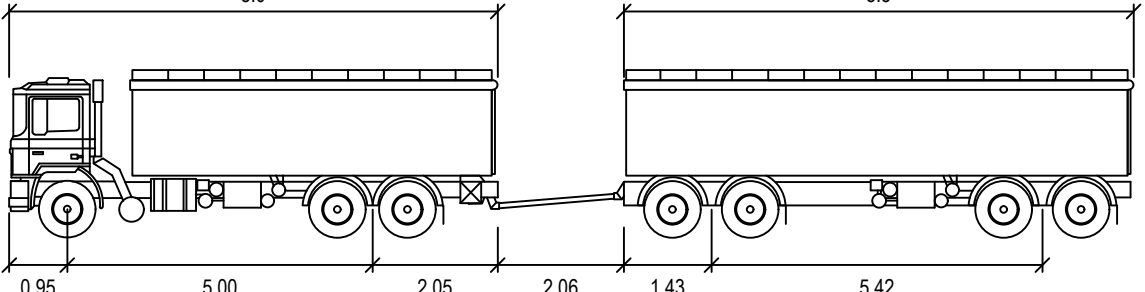
PM S 19M

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TRAILER WIDTH	: 2.50	STEERING ANGLE	: 27.8
TRACTOR TRACK	: 2.50	ARTICULATING ANGLE	: 70.0
TRAILER TRACK	: 2.50		



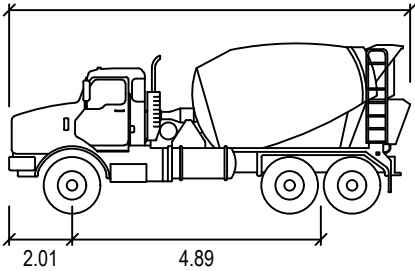
12.5m MEDIUM TRUCK

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TRACK	: 2.50
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 35.2



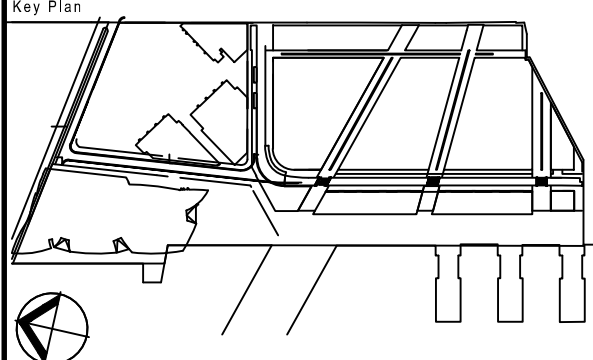
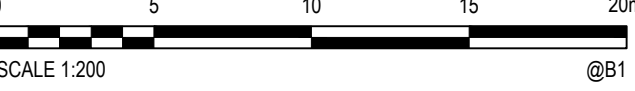
TRUCK AND SUPERDOG

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TRAILER WIDTH	: 2.50	STEERING ANGLE	: 40.0
TRACTOR TRACK	: 2.25	ARTICULATING ANGLE	: 90.0
TRAILER TRACK	: 2.25		



CONCRETE AGITATOR TWIN STEER 10W

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TRACK	: 2.45
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 36.4

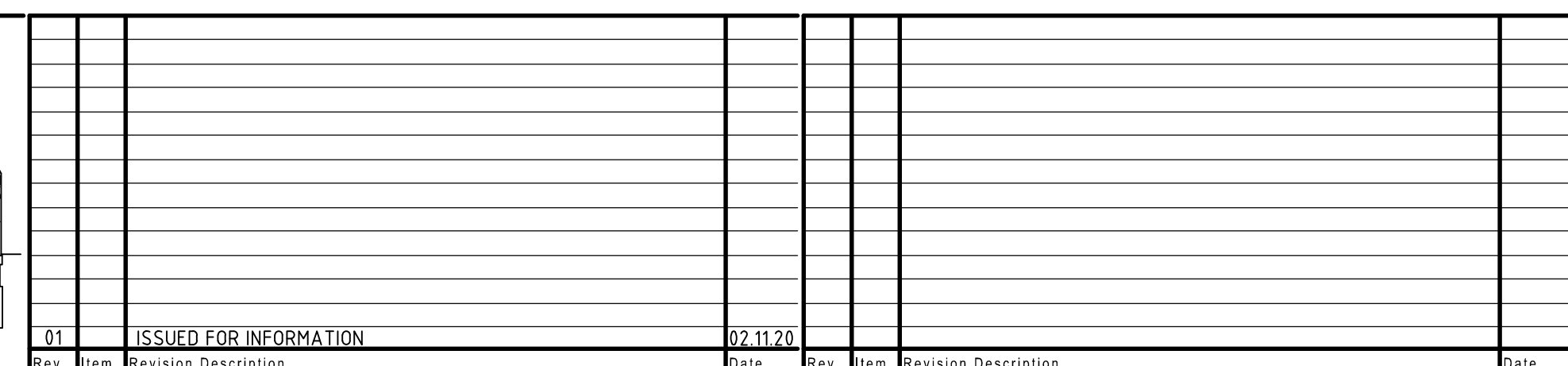
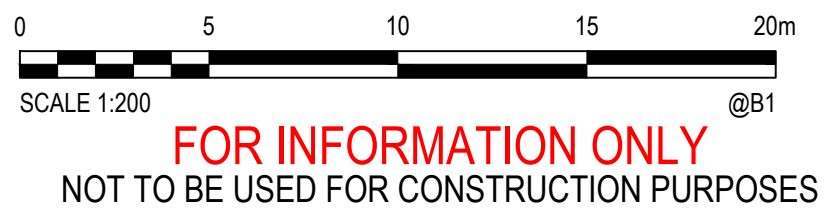


Rev.	Item	Revision Description	Date	Rev.	Item	Revision Description	Date
1		ISSUE FOR INFORMATION	02/11/20				

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Collaborating Architects	Lend Lease Graham W Jones Principal Architect FRAIA NSW ARB 4005 ABN 97 000 088 162	Developer	Lend Lease	Design	Lend Lease	Drawn By	JBC
Consultant		Project Management & Construction	Lend Lease	Checked	RFA	Approved By	AGL
		Design	Lend Lease	Scale	1:200	Date	NOV'20
						Project No.	161804
						Site No.	CTMP-SKC032
						Revision	1



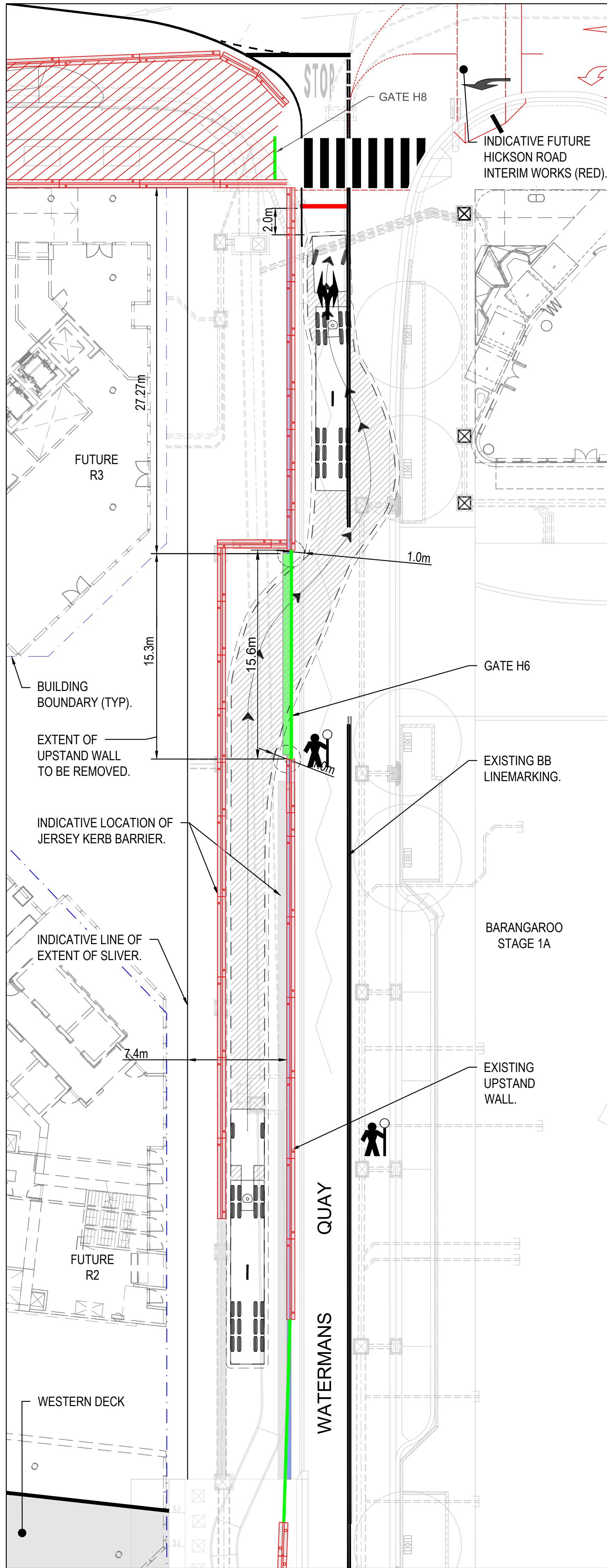
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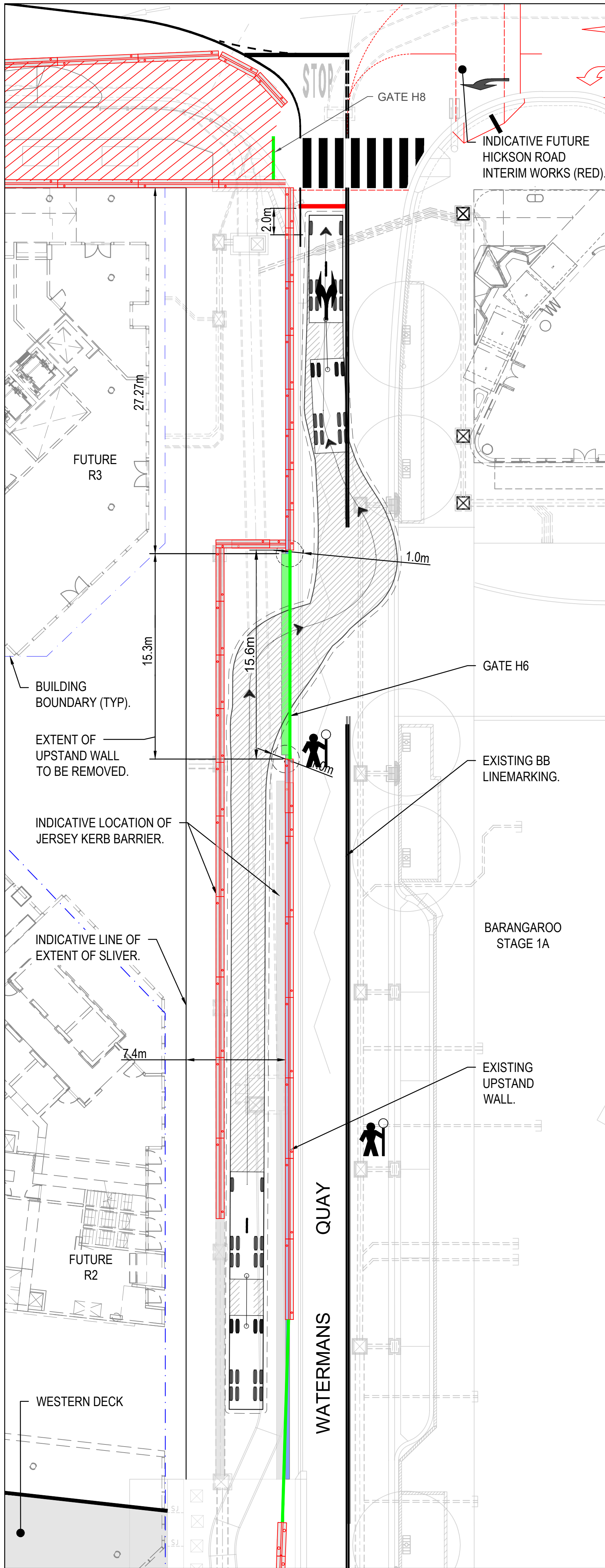
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				BARANGAROO COORDINATED GATE 12 BLOCK 5 TURNING AREA TRUCK CIRCULATION	
Collaborating Architects	Developer	Lend Lease		Drawn By	Designed
	Project Management & Construction	Lend Lease		JBC	AL
	Design	Lend Lease		Checked	Approved By
Consultant	30 The Bond 30 Hickson Road Mifflin Point NSW 2200			Scale	Date
	www.lendlease.com			1:200	NOV'20
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			16804	BST	CTMP-SKC033
					01

APPENDIX D

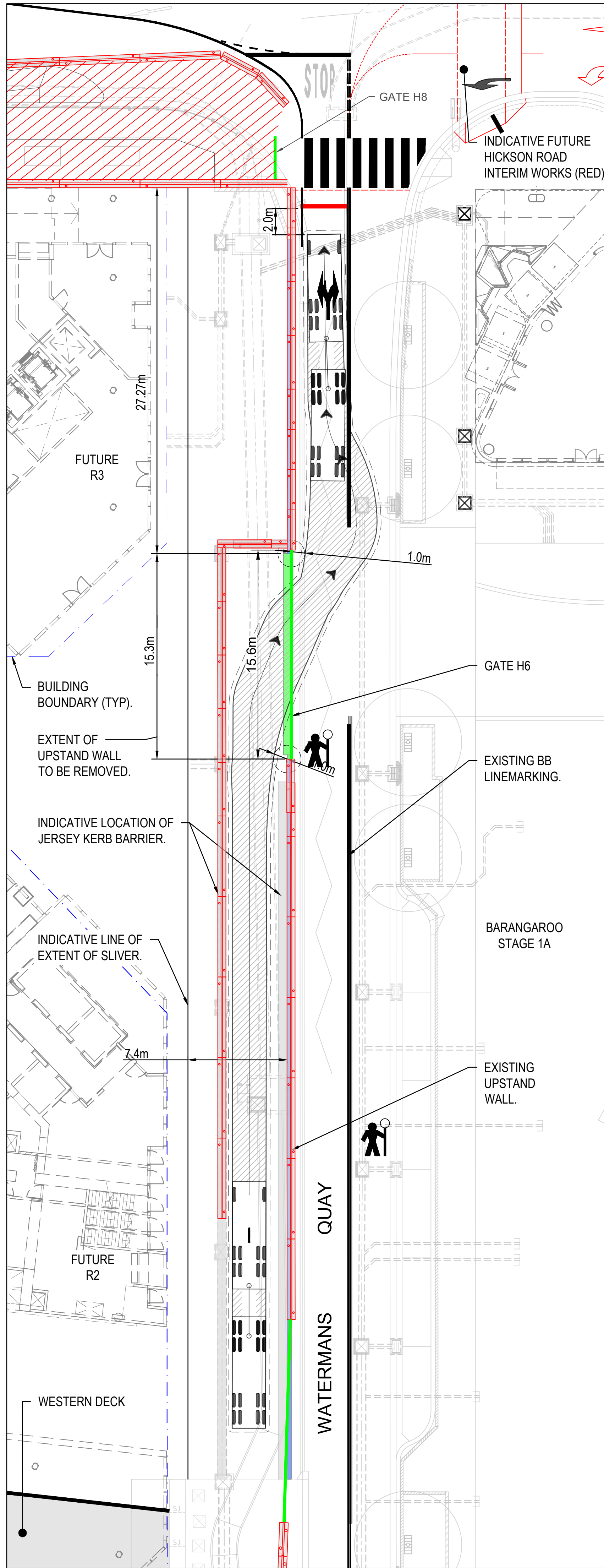
WATERMANS QUAY GATE H6 ACCESS SKETCH PLAN AND TURNING PATH DIAGRAM



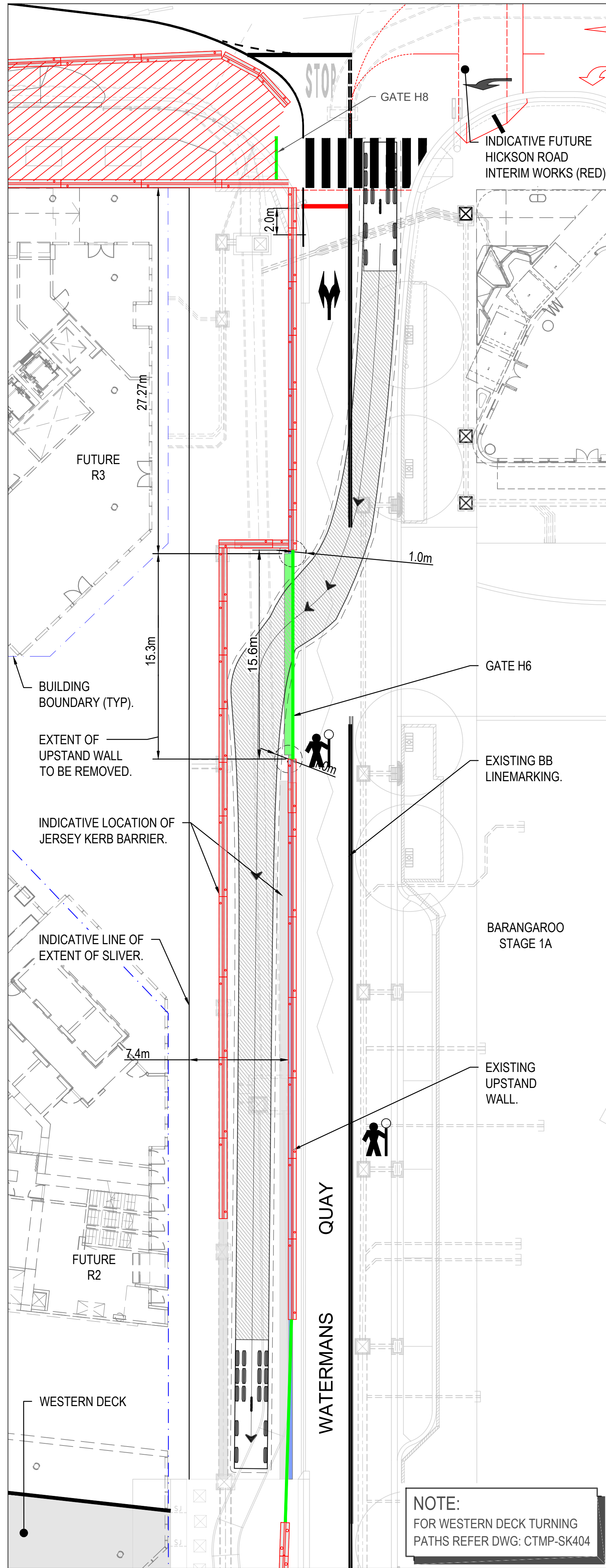
19m SEMI-TRAILER EXITING GATE ON TO WATERMANS QUAY



TRUCK AND DOG EXITING GATE ON TO WATERMANS QUAY

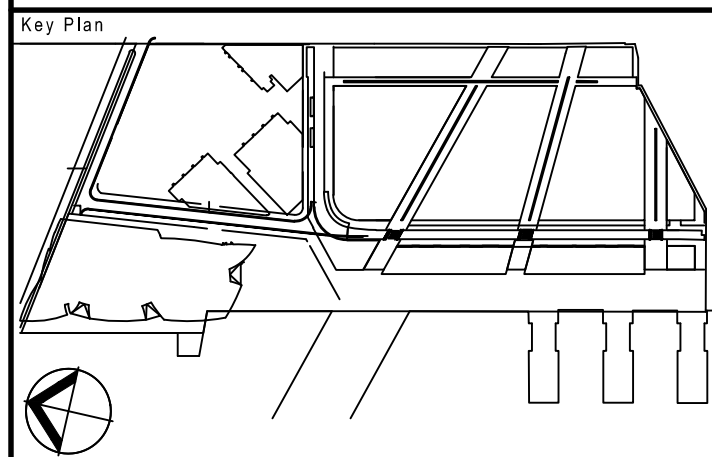


TRUCK AND SUPERDOG EXITING GATE ON TO WATERMANS QUAY



9.6m TWIN-STEER CONCRETE MIXER
ENTERING GATE FROM WATERMANS QUAY

0 5 10 15 20m
SCALE 1:200 @B1



Rev.	Item	Revision Description	Date	Rev.	Item	Revision Description	Date
1	RE-ISSUED FOR INFORMATION		30.10.20				
2	RE-ISSUED FOR INFORMATION		01.04.20				
3	RE-ISSUED FOR INFORMATION		06.12.19				
4	ISSUED FOR INFORMATION		13.11.19				
5	ISSUED FOR INFORMATION		25.06.19				

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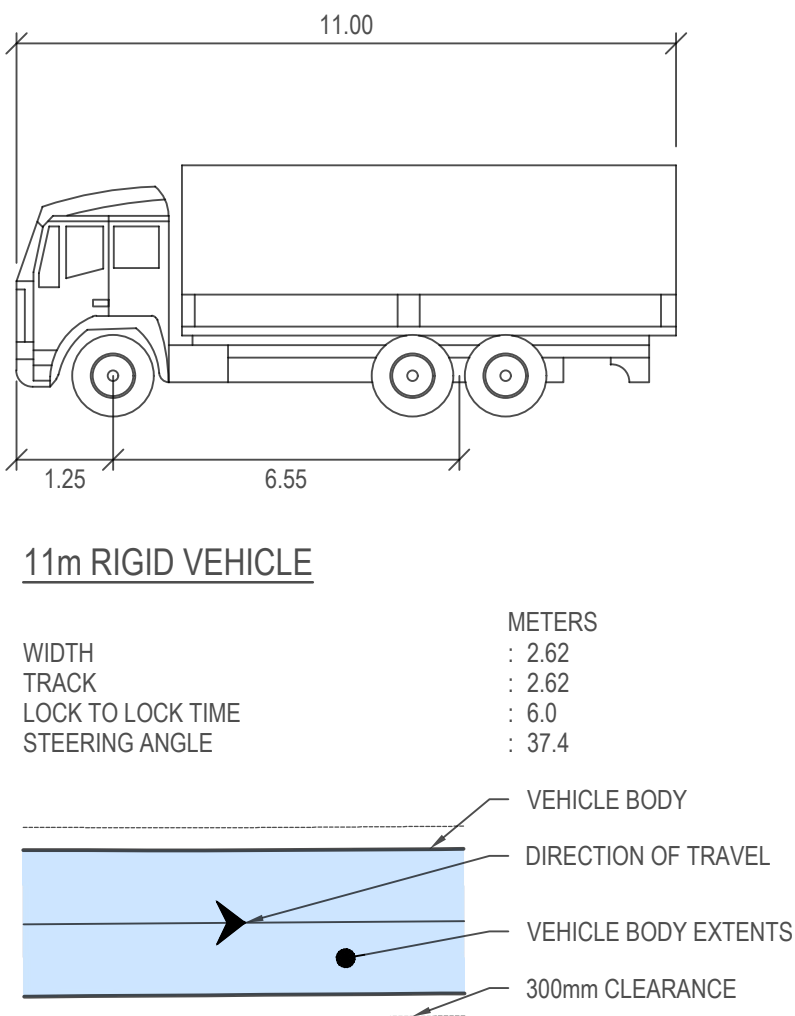
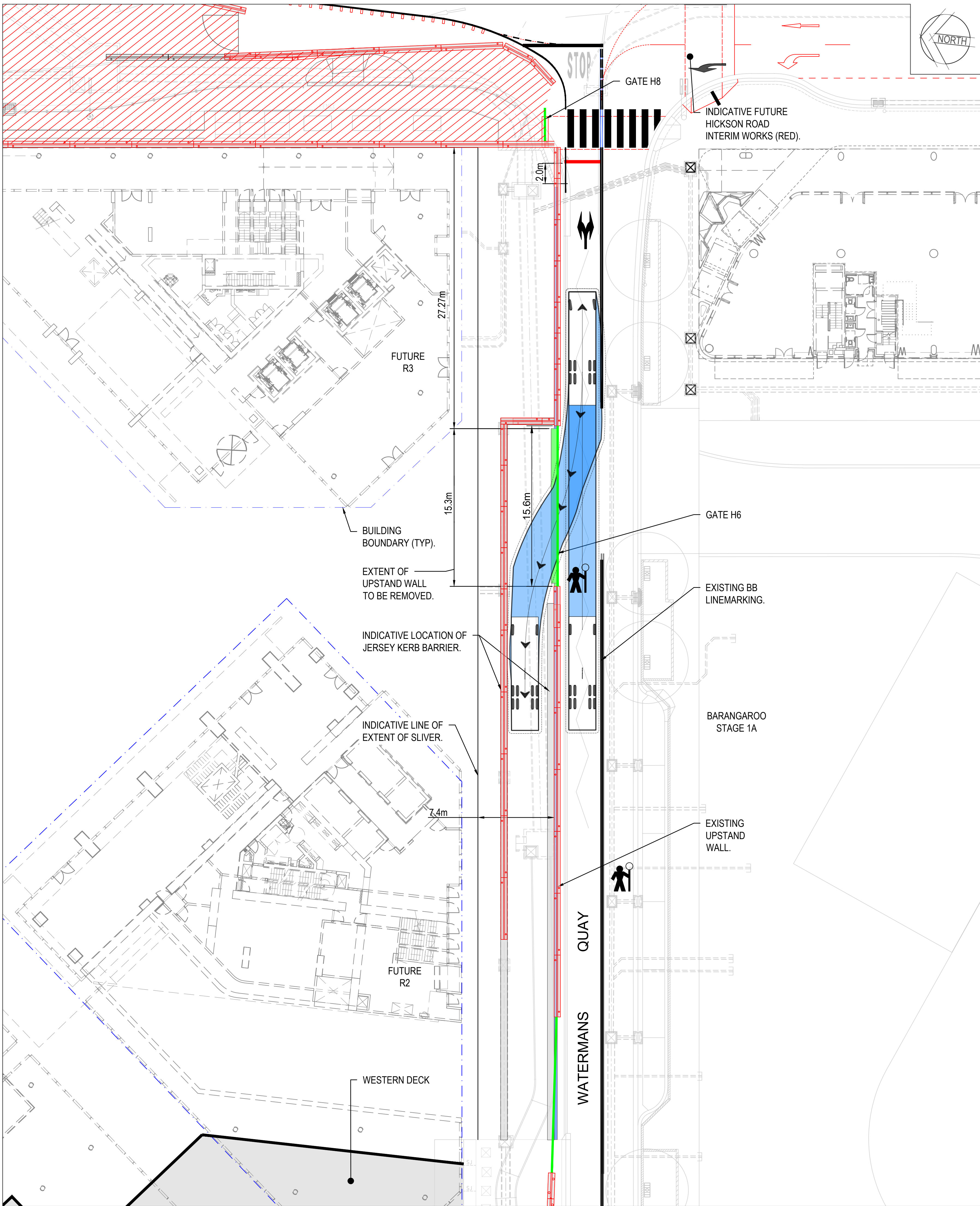


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Collaborating Architects	Lend Lease Graham W Jones Principal Architect FRAIA NSW ARB 4005 ABN 87 000 088 162
Consultant	

Principal	
Developer	Lend Lease
Project Management & Construction	Lend Lease
Design	Lend Lease
30 The Bond 30 Hickson Road Mills Point NSW 2000	www.lendlease.com

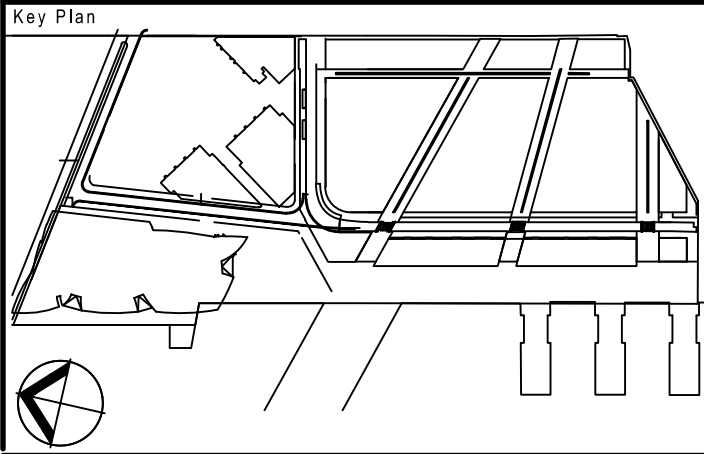
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Drawn By	MDH	Designed	MDH
Checked	RFA	Approved By	
Date		Date	
Scale	1:200	Project No.	161804
Site No.	CTMP-SK403	Drawing No.	5



11m RIGID VEHICLE ENTERING GATE FROM WATERMANS QUAY
SCALE 1:200

NOTE:
FOR WESTERN DECK TURNING
PATHS REFER DWG: CTMP-SK404

0 5 10 15 20m
SCALE 1:200 @B1



Rev.	Item	Revision Description	Date	Rev.	Item	Revision Description	Date
2	1	RE-ISSUE FOR INFORMATION	20.10.20				
1	1	ISSUE FOR INFORMATION	23.02.20				

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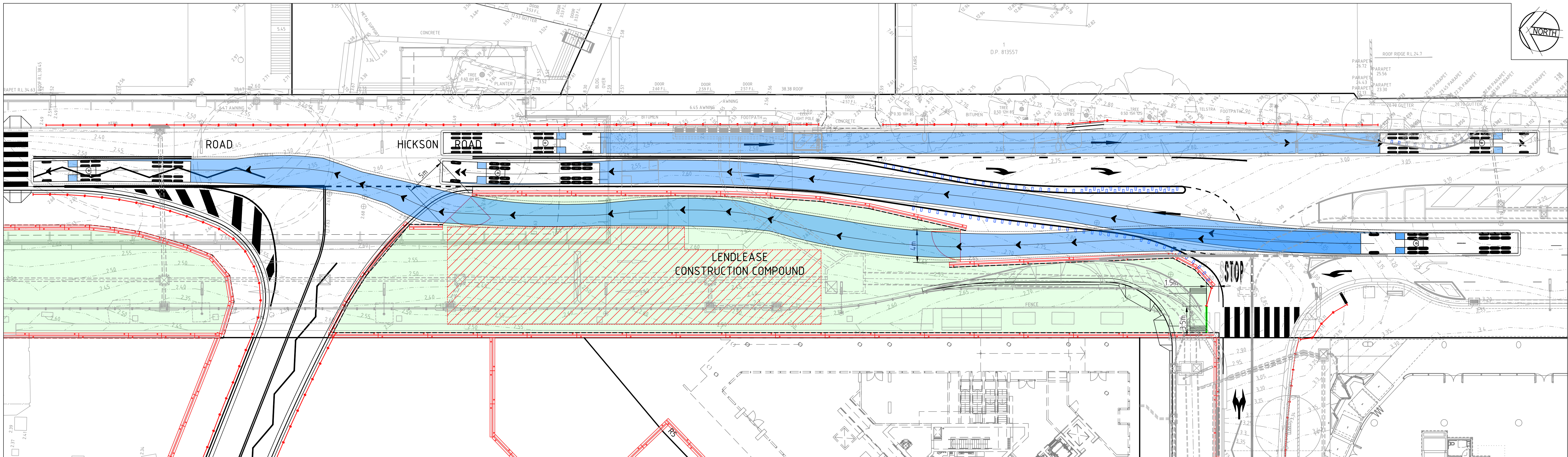
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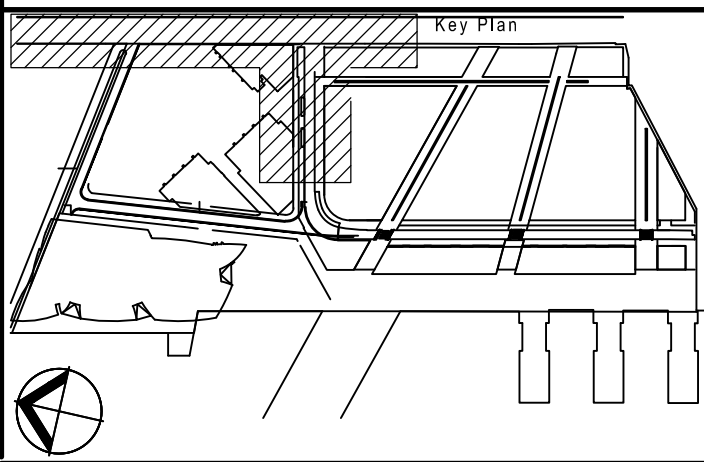
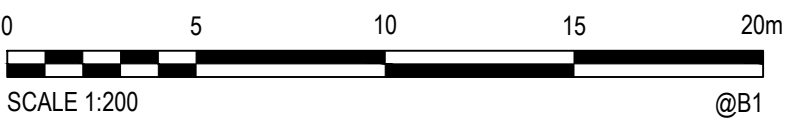
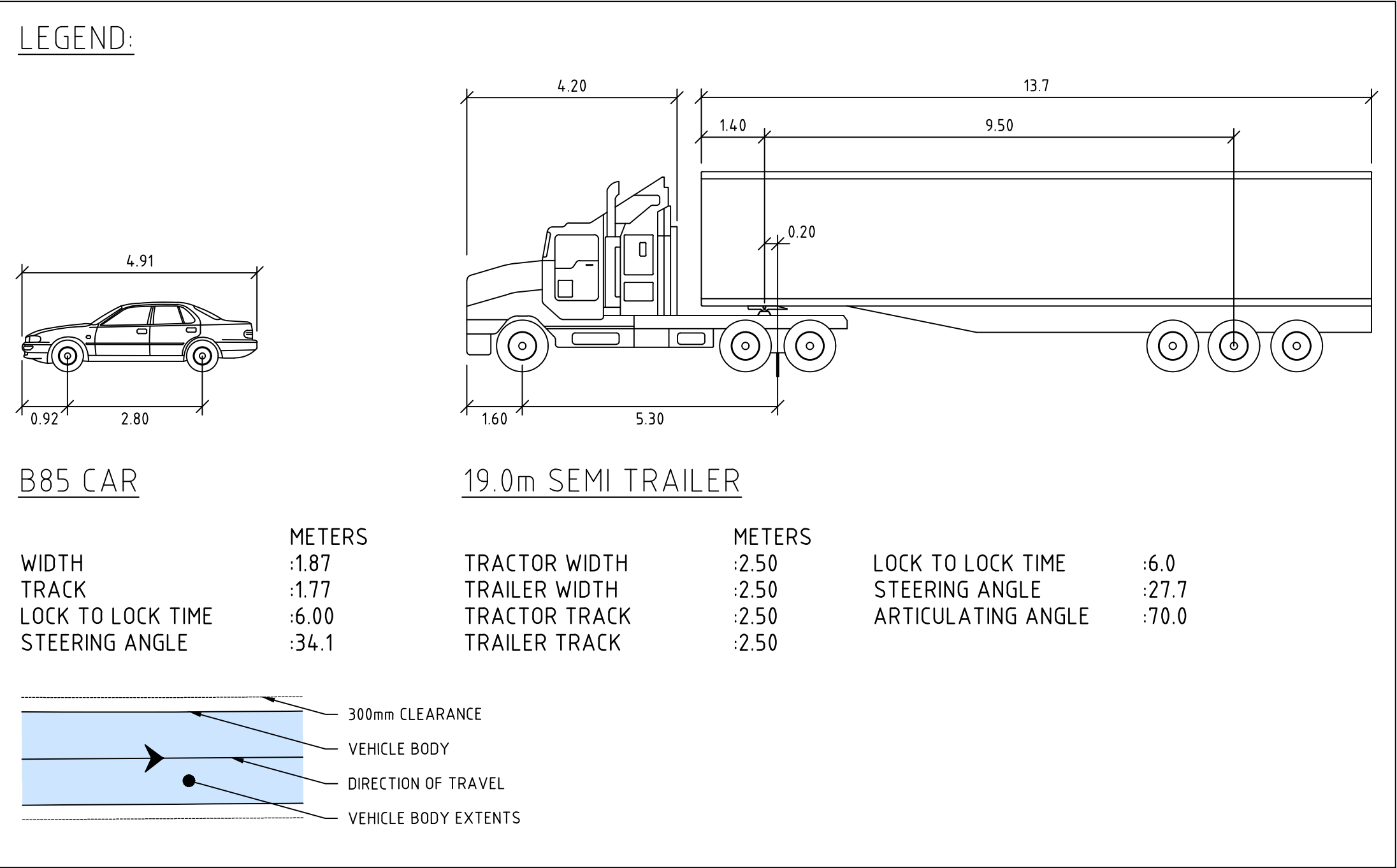
Lead Architects	RSHP Australia Pty Ltd Ivan Harbison Principal Architect RAIA NSW ARB 9484 Sydney NSW 2000	Principal		Project	BARANGAROO SOUTH WATERMANS QUAY - GATE H6 TURNING PATH
Collaborating Architects	Lend Lease Graham W Jones Principal Architect FRAIA NSW ARB 4005 ABN 87 000 098 162	Developer	Lend Lease	Design	Lend Lease
Consultant		30 The Bond 30 Hickson Road Mills Point NSW 2000 www.lendlease.com			
				Title BARANGAROO SOUTH STAGE 1B WATERMANS QUAY - GATE H6 TURNING PATH	
				MP	
				Scale 1:200	
				Project No. 161804 Site No. CTMP-SK463 Revision 2	

APPENDIX E

HICKSON ROAD CONSTRUCTION ZONE GATE H1, H3 AND H9 SKETCH PLAN AND TURNING PATH DIAGRAM



19m SEMI-TRAILER TRAVELLING NORTH ALONG HICKSON ROAD
AND
19m SEMI-TRAILER TRAVELLING SOUTH ALONG HICKSON ROAD



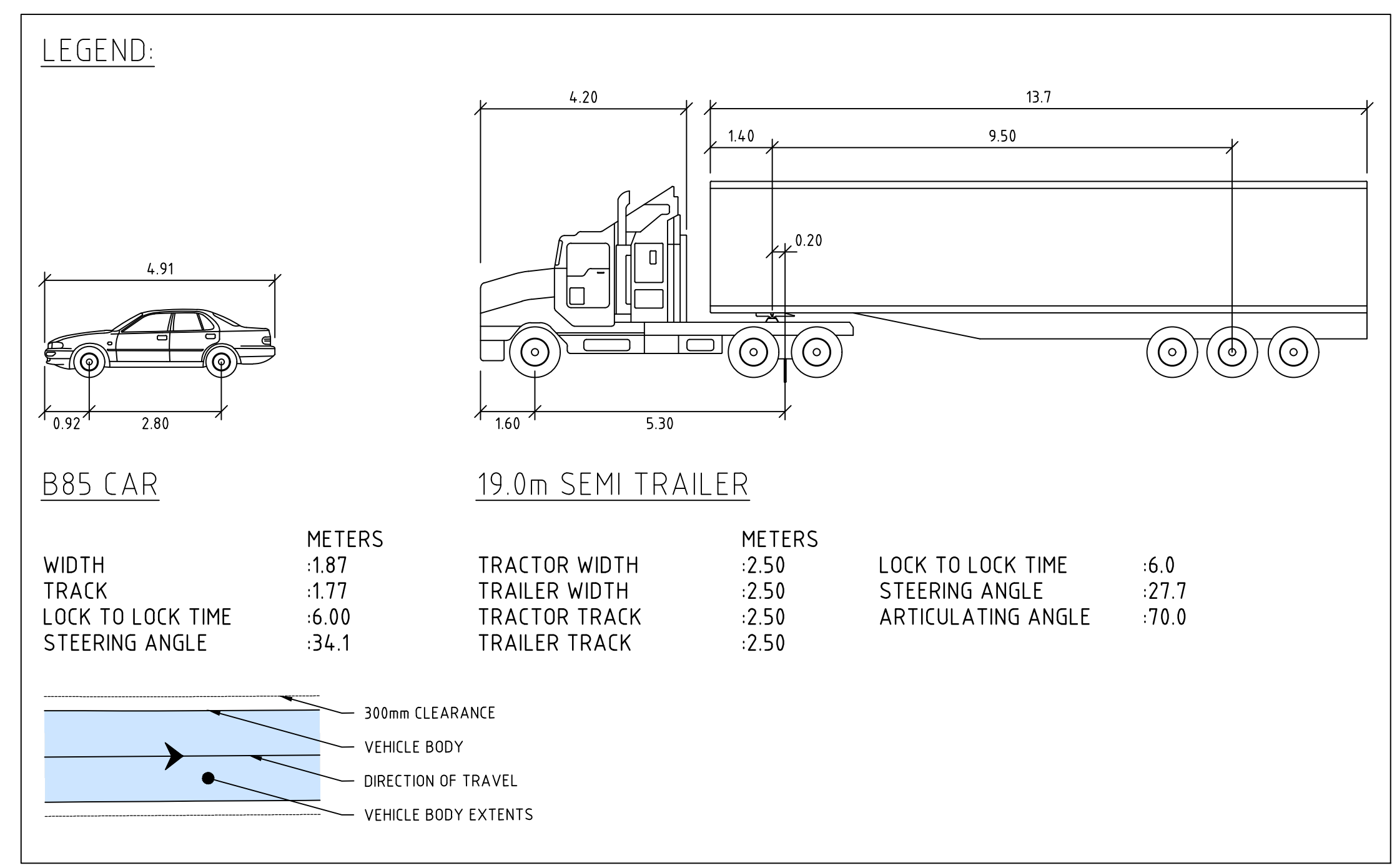
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07		ISSUED FOR REVIEW					
06		ISSUED FOR REVIEW					
05		ISSUED FOR REVIEW	12.10.20				
04		ISSUED FOR REVIEW	09.10.20				
03		ISSUED FOR REVIEW	07.10.20				
02		ISSUED FOR INFORMATION	24.08.20				
01		ISSUED FOR INFORMATION	07.08.20				

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Lead Architects	Principal 	Project BARANGAROO SOUTH
Collaborating Architects	Developer Project Management & Construction Design	Lend Lease Lend Lease Lend Lease
Consultant	30 The Bond 30 Hickson Road Millsers Point NSW 2000 www.lendlease.com	
NOT TO BE USED FOR CONSTRUCTION PURPOSES		
HICKSON ROAD INTERIM ALIGNMENT THREE TURNING PATH PLAN SHEET 2		
Drawn By GJI	Designed GJI	Checked RFA
Approved By	Date AUG 20	
Scale 1:200	Project No. 161804	Site No. HR13
	Drawing No. 50613044-801	Revision 07



The detailed site plan illustrates the layout of the Lend Lease Construction Compound. Key features include:

- NORTHERN CONSTRUCTION SITE:** A pink-shaded area on the left side of the plan.
- LENLEASE CONSTRUCTION COMPOUND:** A large green-shaded area occupying the central and right portions of the plan.
- GATE H9:** A blue-shaded area indicating a specific gate or entrance within the compound.
- HICKSON ROAD:** A road running horizontally across the top of the plan.
- Annotations:** Numerous technical notes and elevations are present, such as "TOP OF OLD STONE KERB 160mm HIGH", "TOP OF S. STONE KERB 160mm HIGH", "LEVEL 8 PARAPET R/L 34.63", and "HICKSON ROAD".
- North Arrow:** Located in the top right corner, pointing towards the upper right.

A key plan showing the site location within a larger area. The site is highlighted with a hatched pattern. A north arrow is located in the bottom left corner.

[illegible]

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Lead Architects		Principal 		Project Title BARANGAROO SOUTH		NOT TO BE USED FOR CONSTRUCTION PURPOSES HICKSON ROAD INTERIM ALIGNMENT THREE GATE H9 TURNING PATH PLAN				
Collaborating Architects		Developer Lend Lease				Drawn By	Designed	Checked	Approved By	Date
		Project Management & Construction Lend Lease				RFA	RFA	RFA		OCT'20
Consultant		Design Lend Lease				Scale 1:200				
		30 The Bond 30 Hickson Road Millers Point NSW 2000 www.lendlease.com				Project No. 161804 Site No. HR13 Drawing No. 50613044-465 Revision 01				
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APPENDIX F

CONSTRUCTION GREEN TRAVEL PLAN



One Sydney Harbour Construction Green Travel Plan



Contents

- 1.0 Executive Summary
- 2.0 Definition and Objectives
- 3.0 Action Plan
- 4.0 Ongoing monitoring

1.0 Executive Summary

One Sydney Harbour aims to be a world leading example of sustainability in a mixed use development. The project aspires to achieve carbon neutral, zero waste and water positive outcomes, collectively known as the climate positive strategy.

The purpose of this Construction Green Travel Plan is to outline the steps taken to achieve a more sustainable outcome in relation to transportation of workers to and from the site during construction. The target for the Construction Green Travel Plan is that no workers will access the site with a private vehicle and that all access to the site will be by safe, sustainable transport modes.

A Green Travel plan will also be developed for the ongoing occupation and management of the site prior to operation. In addition, the travel of goods and materials to the site will be subject to further sustainability planning that will be conducted as part of each works package.

2.0 Definition and Objectives

One Sydney Harbour will be a world leading example of sustainability in an urban renewal project. The central location of the site affords numerous green travel options that may not be available on a typical construction site.

What is a Green Travel Plan?

A Green Travel Plan is a long-term management strategy which helps organisations to reach sustainable transport objectives. These objectives are achieved by identifying and implementing measures aimed at promoting sustainable travel, with an emphasis on reducing single-occupancy car journeys and increasing the proportion of trips made by walking, cycling and public transport. The various measures are co-ordinated through a clearly set out and regularly reviewed Travel Plan.

Sustainable Transport Hierarchy



Travel Related Carbon Emissions Comparison

As part of the Lend Lease bid proposal for Barangaroo, a detailed carbon footprint calculation was undertaken. As shown in the table below, walking and cycling have the lowest carbon footprint, public transport has a moderate carbon footprint while private car has the highest carbon footprint.

Australian Average Emission Factors for Transportation Options

Walk	0 g CO ₂ /pass.km
Bicycle	0 g CO ₂ /pass.km
Ferry	47 g CO ₂ /pass.km
Bus	93 g CO ₂ /pass.km
Motorcycle	117 g CO ₂ /pass.km
Train	139 g CO ₂ /pass.km
Car	230 g CO ₂ /pass.km

Notes: The Australian average emission factors come from table 4-11 from "Analysis of Recent Trends and Greenhouse Indicators 1990 to 2005"

Australian Greenhouse Office, Department of the Environment and Water Resources, 2007 <http://www.climatechange.gov.au/inventory/2005/trends.html> apart from emission factors for ferry

Emissions from ferries have been estimated using fuel consumption, speed and capacity data from the Sydney Ferries website (<http://www.sydneyferries.info/about-us/7-15-Fleet-Facts.htm>) and diesel conversion factor from <http://www.climatechange.gov.au/workbook/pubs/workbook-oct2008.pdf>. The figure above is based on a load factor of 0.75 and can be altered according to the following equation: Emissions Factor (g CO₂e/ passenger km) = 35.4/ Load Factor

Objective of the One Sydney Harbour Construction Green Travel Plan

The objective of this travel plan is to encourage the use of safe and sustainable transport for travel to and from work and within work time. Initiatives will be implemented to:

- to reduce our carbon footprint
- to relieve congestion, reduce pollution and limit impact on neighbours
- to reduce the demand for access to limited on street parking
- to improve staff fitness levels through encouraging the use of more active forms of transport
- to enable construction workers to access public travel information and fare details
- to provide onsite parking for visitors and workers with a mobility disability, and
- reduce local congestion, air pollution, greenhouse gases and noise pollution.

Resources

- For public transport trip planning and advice on fares visit: <http://www.131500.com.au/>. These details will be provided in all tender documents as part of encouraging worker transport to the One Sydney Harbour work site. These details will also be posted on site amenities notice boards
- Details of green car sharing websites and company information will be readily available and posted on site amenities notice boards.
- Construction workers will be inducted into the Green Travel Plan during the formal Site / Project inductions with public transport links and bike transport routes clearly provided.
- Project health and wellbeing programs will incorporate sustainable transport initiatives and information.

3.0 Action Plan

Target	Action	When	Who
Increase Journeys to Site by Bicycle	Provide on-site bike parking facilities including onsite safe bike route to secure bike storage and shower facilities.	Site establishment	Lend Lease
	Encourage bike transport at site inductions and publish maps of local cycle routes onsite.	Site occupation / ongoing	Lend Lease
	Promote and encourage participation in ride to work day	Ongoing	Lend Lease
	Look at other financial incentives for example subsidised membership of Bicycle NSW for own employees (Lend Lease and Subcontractors responsible for their own respective staff)	Ongoing	Lend Lease / Subcontractors
	Encourage community programs and site engagement (e.g. Bikes for Humanity)	Ongoing	Lend Lease / Subcontractors
Encourage Private Bus Services	Work with subcontractors who want to provide private transport to the site to pick up other contractors / organise collective bus services for large volumes of employees coming from a central depot / site. Review options for sponsoring / pooling of funds.	At start of works packages	Lend Lease to coordinate with subcontractors
Increase Journeys to Work by Public Transport	Encourage sub-contractors to review subsidised or pay for public transport passes.	Ongoing	Subcontractors
	No vehicle parking will be allowed onsite	Site Establishment	Lend Lease
	At time of tender provide clear information on alternate transport options and encourage use of public transport.	Ongoing	Lend lease
	Provide up to date public transport timetable and route information including live feeds / internet access for route planning.	Site establishment / ongoing	Lend Lease
	Ensure safe access and lighting for employees coming to site early/ late.	Site establishment / ongoing	Lend Lease
Reduce car journeys to site	No provision for parking on site – can be reviewed on an as needs basis if disabled employees need to access the site.	Site establishment	Lend Lease
	Provide details of local car share options in place of pool vehicles e.g. green car share and go get style schemes	Site occupation / ongoing	Lend Lease
	Examine provision of plant hire services and maintenance onsite.	Site establishment	Lend Lease

Target	Action	When	Who
	Provide storage areas for subcontractors to secure materials, tools and personal belongings overnight.	Site establishment	Lend Lease to provide space, subcontractors to provide storage
Increase journeys to Site by Walking	Produce map showing safe routes, including safe access routes into the site, with distances and times to common destinations.	Site occupation	Lend Lease
	Provide onsite shower facilities.	Site establishment	Lend Lease
	Investigate the provision of pedometers to enable employees to see the impact of healthy commuting options – encourage competitions to increase daily exercise	Ongoing	Lend Lease / Subcontractors
	Investigate periodic health / fitness checks to enable employees to see the benefit of healthy commuting options	Ongoing	Lend Lease / Subcontractors

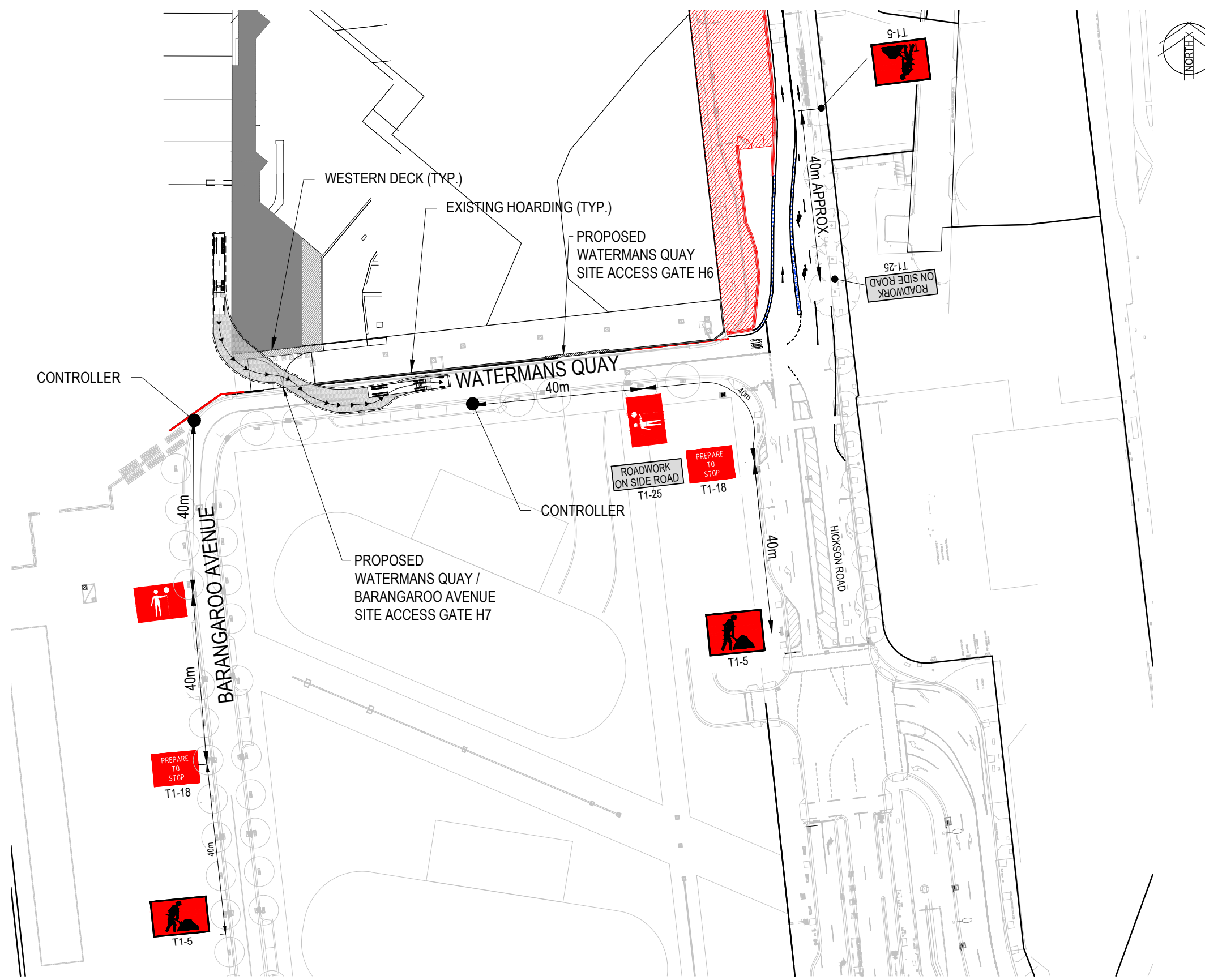
4.0 Monitoring & Review

The One Sydney Harbour Construction Green Travel Plan will be monitored by the Lend Lease project management team with construction worker feedback encouraged and new initiative implemented where demand and opportunities present.

Surveys of staff coming to the site as part of the construction (including regular reporting by subcontractors) will assist in informing further iterations of this plan which will be updated at least annually.

APPENDIX G

TRAFFIC CONTROL PLANS



- NOTE:**
1. TRAFFIC CONTROL DEVICES TO BE MAINTAINED THROUGHOUT DURATION OF WORKS AND CHECKED REGULARLY.
 2. TRAFFIC CONTROL DEVICES TO BE INSPECTED BY TCP CONTROLLER FOLLOWING INSTALLATION.
 3. DIMENSIONS ARE NOT TO SCALE AND ARE INDICATIVE ONLY

Notes:

- All traffic controllers are to be RMS Accredited
- Priority is not to be given to construction vehicles entering/exiting the site
- Signs to be removed / covered when not in use
- TCP can be modified by suitably qualified (RMS Accredited) author
- Not to scale

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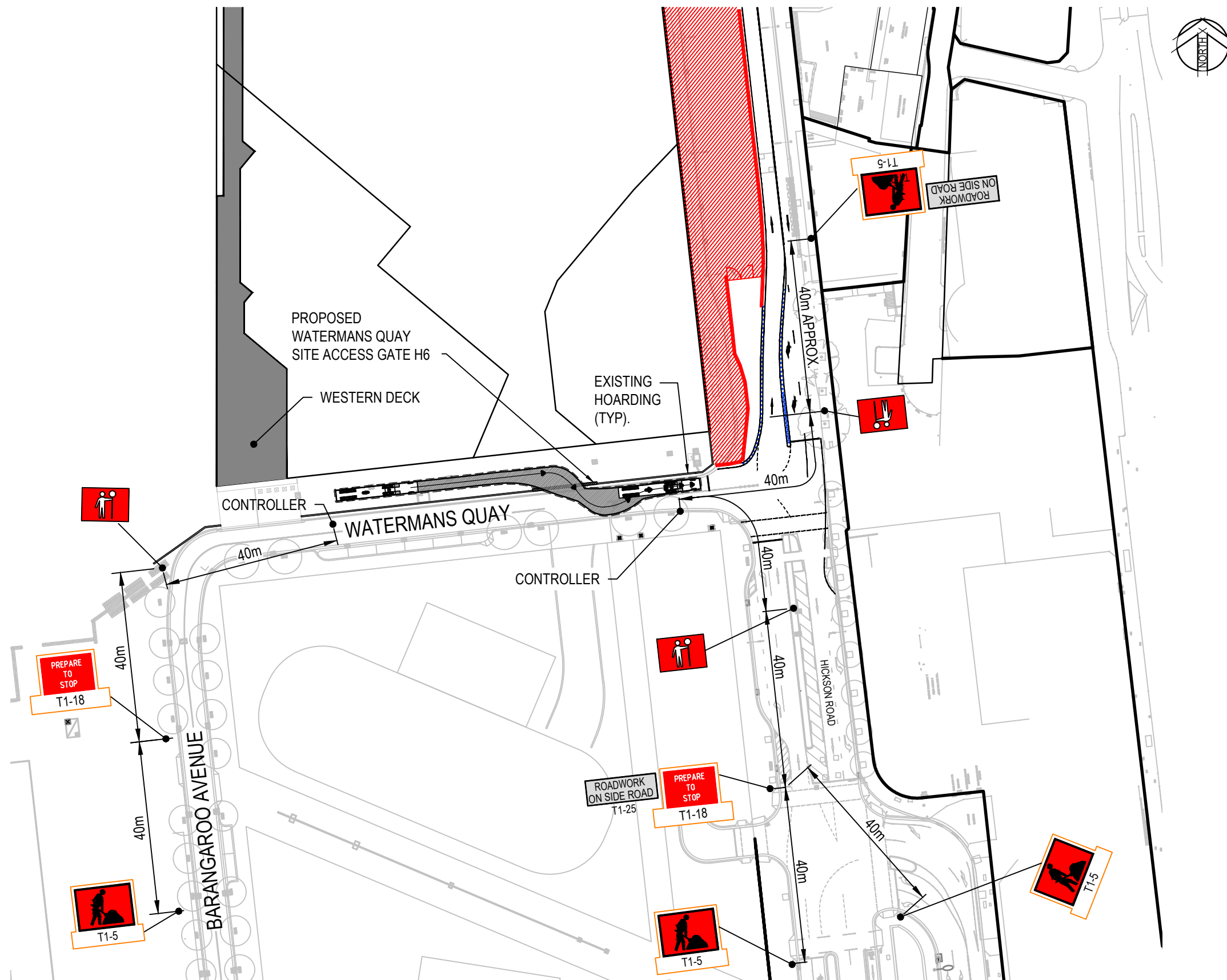
DESIGNER
LICENCE NUMBER 0051945539
LICENCE EXPIRY 06/03/2022
NAME Joshua Bezzina

TCP 01
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St. Leonards, NSW 2065
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

Client Lendlease
Project Watermans Quay TCP
Title TCP 01 - General Site Access (Gate H7)
2/11/2020



Notes:

- All traffic controllers are to be RMS Accredited
- Priority is not to be given to construction vehicles entering/exiting the site
- Signs to be removed / covered when not in use
- TCP can be modified by suitably qualified (RMS Accredited) author
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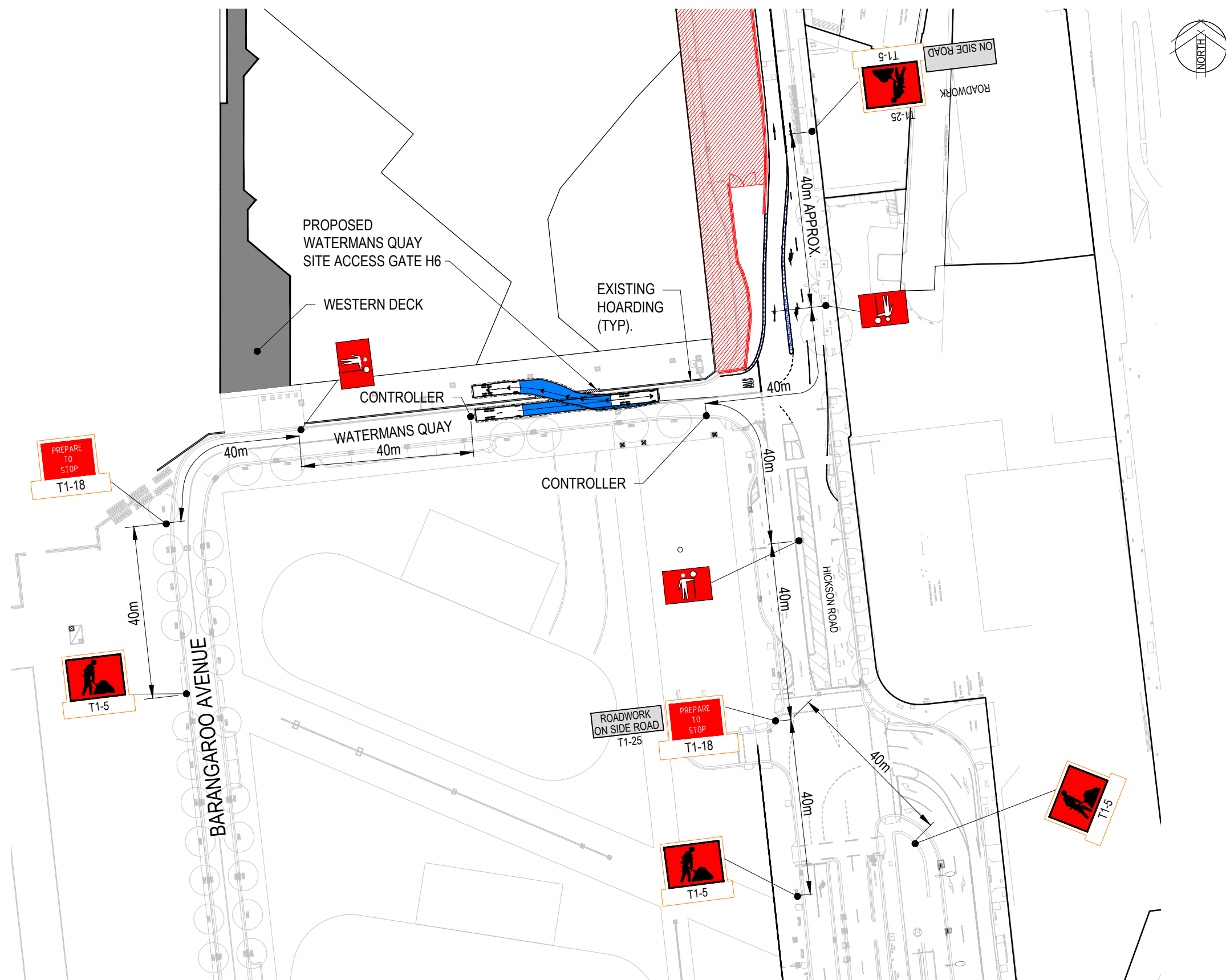
DESIGNER
LICENCE NUMBER 0052047533
LICENCE EXPIRY 19/06/2022
NAME Aaron Pau

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Client Lendlease
Project Watermans Quay TCP
Title TCP 04 - General Site Access Gate H6
SIGNALISED INTERSECTION



Notes:

- All traffic controllers are to be RMS Accredited
- Priority is not to be given to construction vehicles entering/exiting the site
- Signs to be removed / covered when not in use
- TCP can be modified by suitably qualified (RMS Accredited) author
- Not to scale

RMS LICENSE

DESIGNER
LICENCE NUMBER 0051945539
LICENCE EXPIRY 06/03/2022
NAME JOSHUA BEZZINA

TCP 06

FOR DISCUSSION PURPOSES ONLY
SUBJECT TO CHANGE
WITHOUT NOTIFICATION

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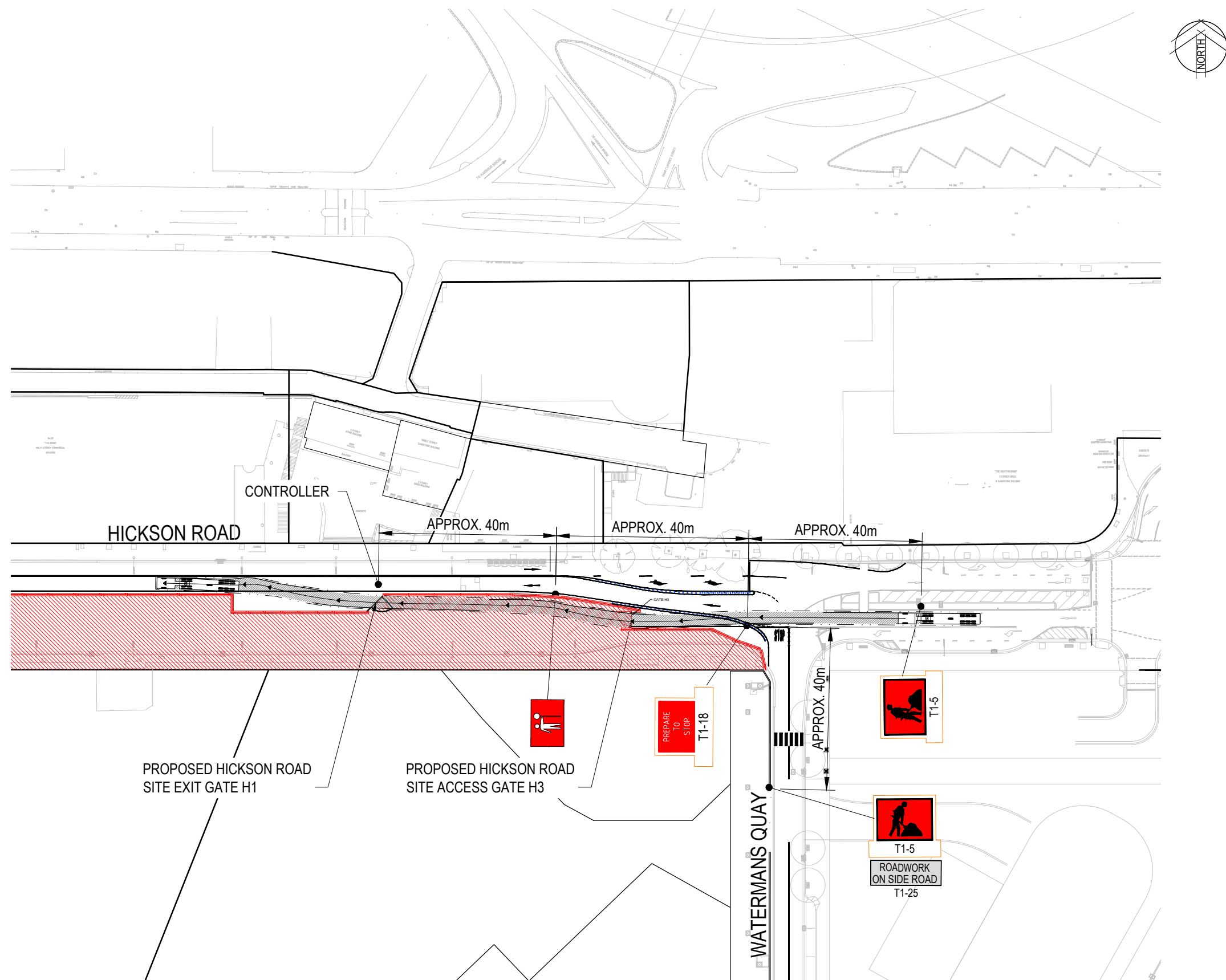


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Client Lendlease

Project Watermans Quay TCP

Title TCP 06 - General Site Access Gate H6
UNSIGNALISED INTERSECTION



Notes:

- All traffic controllers are to be RMS Accredited
- Priority is not to be given to construction vehicles entering/exiting the site
- Signs to be removed / covered when not in use
- TCP can be modified by suitably qualified (RMS Accredited) author
- Dimensions are not to scale
- Traffic control devices to be maintained throughout duration of works and checked weekly

RMS LICENSE

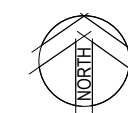
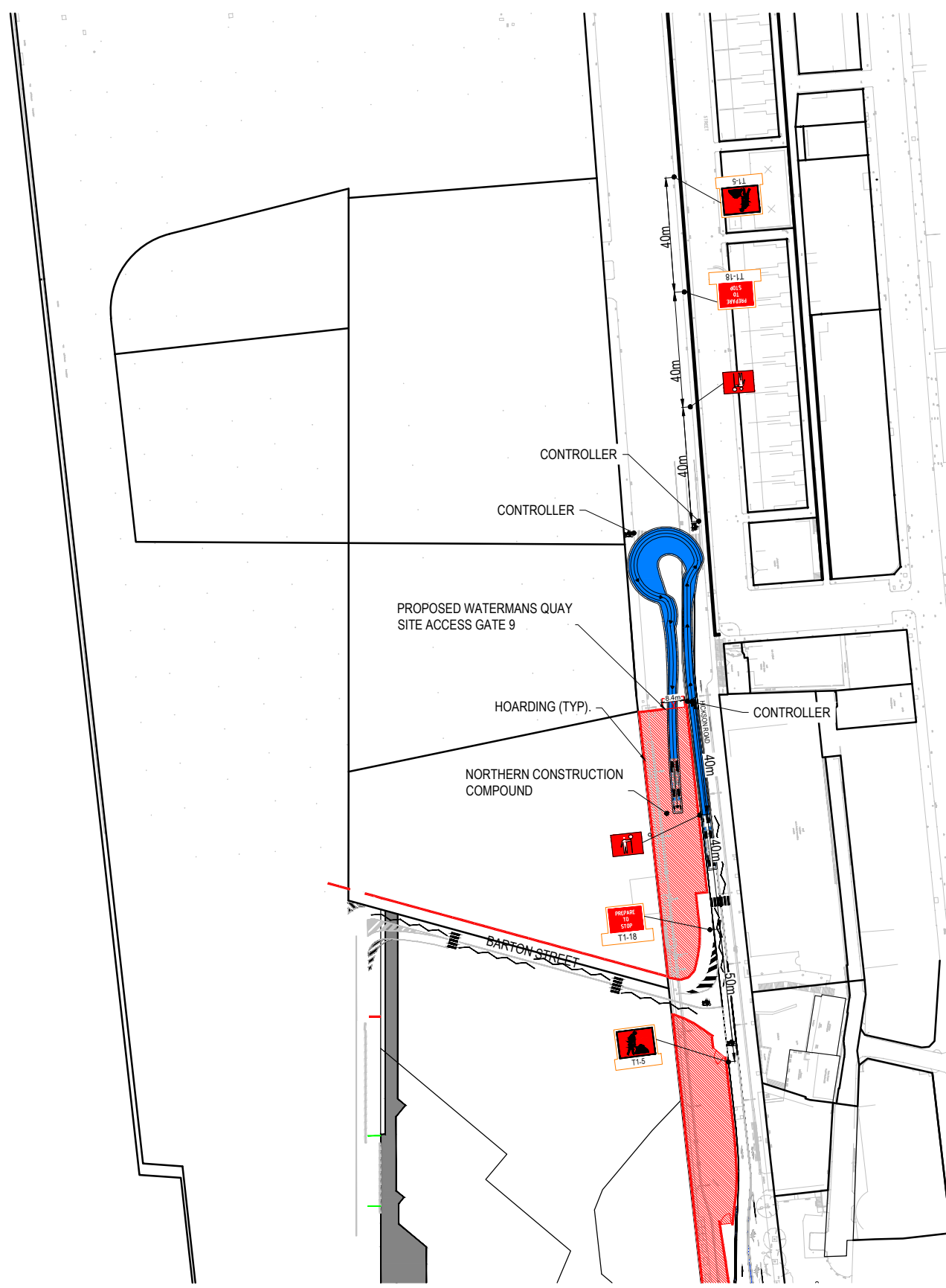
DESIGNER
LICENCE NUMBER 0051945539
LICENCE EXPIRY 06/03/2022
NAME JOSHUA BEZZINA

TCP 07
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Client Lendlease
Project HICKSON ROAD TCP
Title TCP 07 - General Site Access Gate H3 and Exit Gate H1
19/10/2020



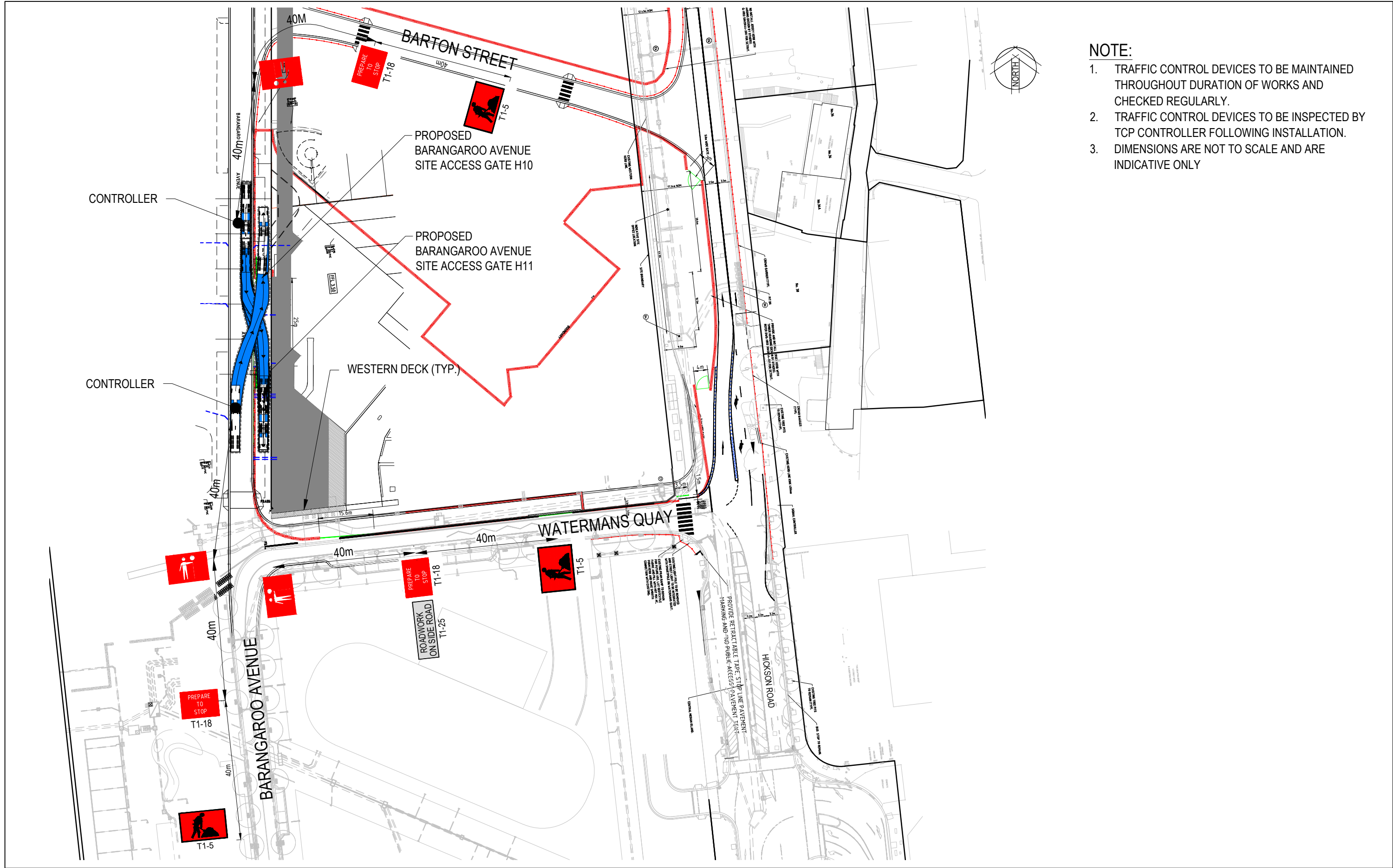
LEGEND:

19.0m SEMI TRAILER

	METERS		
TRACTOR WIDTH	:2.50	LOCK TO LOCK TIME	:6.0
TRAILER WIDTH	:2.50	STEERING ANGLE	:27.7
TRACTOR TRACK	:2.50	ARTICULATING ANGLE	:70.0
TRAILER TRACK	:2.50		

300mm CLEARANCE
VEHICLE BODY
DIRECTION OF TRAVEL
VEHICLE BODY EXTENTS

Notes: - All traffic controllers are to be RMS Accredited - Priority is not to be given to construction vehicles entering/exiting the site - Signs to be removed / covered when not in use - TCP can be modified by suitably qualified (RMS Accredited) author - Not to scale	RMS LICENSE  DESIGNER LICENCE NUMBER 0051945539 LICENCE EXPIRY 06/03/2022 NAME JOSHUA BEZZINA	TCP 09 FOR DISCUSSION PURPOSES ONLY SUBJECT TO CHANGE WITHOUT NOTIFICATION	© Cardno Limited All Rights Reserved. This document is produced by Cardno Limited solely for the benefit of and use by the client in accordance with the terms of the retainer. Cardno Limited does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.	 Cardno Shaping the Future Cardno (NSW/ACT) Pty Ltd ABN 95 001 145 035 Level 9, The Forum, 203 Pacific Highway St. Leonards, NSW 2065 Tel: 02 9496 7700 Fax: 02 9439 5170 Web: www.cardno.com.au	Client Lendlease
					Project Watermans Quay TCP
					Title TCP 09 - General Site Access Gate 9 SIGNALISED INTERSECTION



- NOTE:**
1. TRAFFIC CONTROL DEVICES TO BE MAINTAINED THROUGHOUT DURATION OF WORKS AND CHECKED REGULARLY.
 2. TRAFFIC CONTROL DEVICES TO BE INSPECTED BY TCP CONTROLLER FOLLOWING INSTALLATION.
 3. DIMENSIONS ARE NOT TO SCALE AND ARE INDICATIVE ONLY

Notes: - All traffic controllers are to be RMS Accredited - Priority is not to be given to construction vehicles entering/exiting the site - Signs to be removed / covered when not in use - TCP can be modified by suitably qualified (RMS Accredited) author - Not to scale	RMS LICENSE DESIGNER LICENCE NUMBER LICENCE EXPIRY NAME 0051945539 06/03/2022 Joshua Bezzina	TCP 10 FOR DISCUSSION PURPOSES ONLY SUBJECT TO CHANGE WITHOUT NOTIFICATION	© Cardno Limited All Rights Reserved. This document is produced by Cardno Limited solely for the benefit of and use by the client in accordance with the terms of the retainer. Cardno Limited does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.	Cardno Shaping the Future Cardno (NSW/ACT) Pty Ltd ABN 95 001 145 035 Level 9, The Forum, 203 Pacific Highway St. Leonards, NSW 2065 Tel: 02 9496 7700 Fax: 02 9439 5170 Web: www.cardno.com.au	Client Lendlease Project Watermans Quay TCP Title TCP 10 - General Site Access (Gate H10 AND H11) 2/11/2020
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