



## **Main Roads Western Australia**

### **Mitchell Freeway Extension (Hester Avenue to Romeo Road) Neerabup National Park Excision Strategy**

February 2020

## **Report assumption and limitations**

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# Executive summary

Main Roads Western Australia (Main Roads) proposes to extend Mitchell Freeway north from Hester Avenue to Romeo Road, including an upgrade to Wanneroo Road from Dunstan Road to Trian Road (the Proposal).

To facilitate the construction and operation of the Proposal, Main Roads requires to excise various parcels of land from Neerabup National Park and adjacent Neerabup Nature Reserve. Main Roads is consulting and working with Department of Biodiversity Conservation and Attractions Swan Coastal District to progress the excision process.

The Proposal was considered by the Environmental Protection Authority as part of Metropolitan Region Scheme amendment 992/33, which was approved under Ministerial Statement 629; which included the excision of land from the Neerabup National Park and Nature Reserve and addition of land to the "Parks and Recreation" reservation adjacent to the Park.

Main Roads engaged GHD to develop a mitigation strategy for the proposed excisions to Neerabup National Park and Neerabup Nature Reserve required for the proposal.

This mitigation strategy includes excision or addition of a number of small land parcels to enable the Proposal to occur, which covers:

- 8.588 ha from six areas to be excised from Neerabup National Park for the Mitchell Freeway extension and upgrade to Wanneroo Road
- 2.398 ha from one area to be excised from Neerabup Nature Reserve for the upgrade to Wanneroo Road
- 6.735 ha to be added to Neerabup National Park from three areas.

With respect to the areas not previously considered under MRS Amendment 992/33 the following site specific mitigation is proposed:

- Re-instatement of fauna exclusion fencing
- Improved drainage onsite
- Protection of Black Cockatoo trees where practicable.

The following mitigation actions are proposed for the overall Proposal to provide a net benefit for Neerabup National Park and Nature Reserve:

- Installation of fauna exclusion fencing
- Installation of dual use fauna / pedestrian underpass
- Construction of carpark facilities to promote visitor access to the Park and Nature Reserve
- Access to the Yaberoo Budjara Heritage Trail
- Upgrade to access road/s within the National Park
- Landscaping with native plant species
- Weed management
- Interpretative signage.

# Table of contents

1.	Introduction .....	1
1.1	Extension of Mitchell Freeway and upgrade to Wanneroo Road .....	1
1.2	Excision of land from Neerabup National Park.....	3
1.3	Purpose and scope .....	4
2.	Areas to be excised and added .....	5
3.	Mitigation actions .....	12
3.1	Site specific mitigation .....	12
3.2	Park focused mitigation .....	14
4.	References.....	22

# Table index

Table 1	Neerabup National Park / Nature Reserve excision – Mitchell Freeway Extension, Wanneroo Road and Hester Avenue widening .....	7
Table 2	Neerabup National Park – land to be added to park .....	11

# Figure index

Figure 1	Overview of proposed excision and additions to Neerabup National Park / Nature Reserve and mitigation package.....	6
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# Plate index

Plate 1	Funded and optional works.....	2
Plate 2	Example fencing .....	13
Plate 3	Potential Black Cockatoo breeding trees near quarry access road south of Hester Avenue .....	14
Plate 4	Example underpass .....	15
Plate 5	Lake Nowergup visitor improvement .....	16
Plate 6	Lake Nowergup visitor parking .....	17
Plate 7	Heritage trail.....	18
Plate 8	Example signage .....	20
Plate 9	Example interpretive signage .....	21

# Appendices

Appendix A - Maps for each land parcel to be excised or added

# 1. Introduction

## 1.1 Extension of Mitchell Freeway and upgrade to Wanneroo Road

Main Roads Western Australia (Main Roads) proposes to extend Mitchell Freeway north from Hester Avenue to Romeo Road, including an upgrade to Wanneroo Road from Dunstan Road to Trian Road (the Proposal).

Mitchell Freeway is the main arterial road that connects the northern suburban areas with Perth's central business district. The freeway currently terminates at Hester Avenue. Perth's northern suburbs have experienced continuing strong growth, with the population of Yanchep, Alkimos and Eglinton forecast to reach 118,000 by 2031<sup>1</sup>.

The Proposal will extend the Mitchell Freeway a further 5.6 kilometres (km) from Hester Avenue to Romeo Road, as well as upgrading Wanneroo Road to a dual carriageway for 5.5 km from Dunstan Road to Trian Road. The Proposal will improve accessibility, travel times and road safety as well as sustaining jobs and enabling regional development in Perth's northern suburbs.

A portion of the proposed works along Wanneroo Road are currently unfunded and will be included in contract documentation as a priced option (refer to Plate 1), whereby the successful contractor will build this section only if they can do so within the current allowable budget. Any suggested mitigation measures along this section will also be part of the priced option and will only be constructed if funding permits.

### 1.1.1 Construction works (funded)

The Mitchell Freeway extension works include:

- Constructing a new 5.6 km four lane freeway (two lanes in each direction)
- Completion of northbound on ramp and southbound off ramp at Hester Avenue interchange
- Grade separated interchange at Lukin Drive
- Rail tunnel for the existing rail to exit the freeway median to Butler train station
- Terminate freeway at Romeo Road with an at-grade intersection
- Principal Shared Path on the western side of the freeway
- Romeo Road constructed as dual carriageway with 2 lanes travelling in each direction from Marmion Avenue to Wanneroo Road
- Footpaths/shared paths proposed for Romeo Road
- New/upgraded at-grade intersections at Romeo Road/Wanneroo Road and Romeo Road/Benenden Road.

The Wanneroo Road upgrade works include:

- 1.8 km duplication of Wanneroo Road from south of Romeo Road north to Trian Road
- Improvements to the old Wanneroo Road alignment, currently acting as a service road, including upgrade to the existing Romeo Road/Wanneroo Road intersection.

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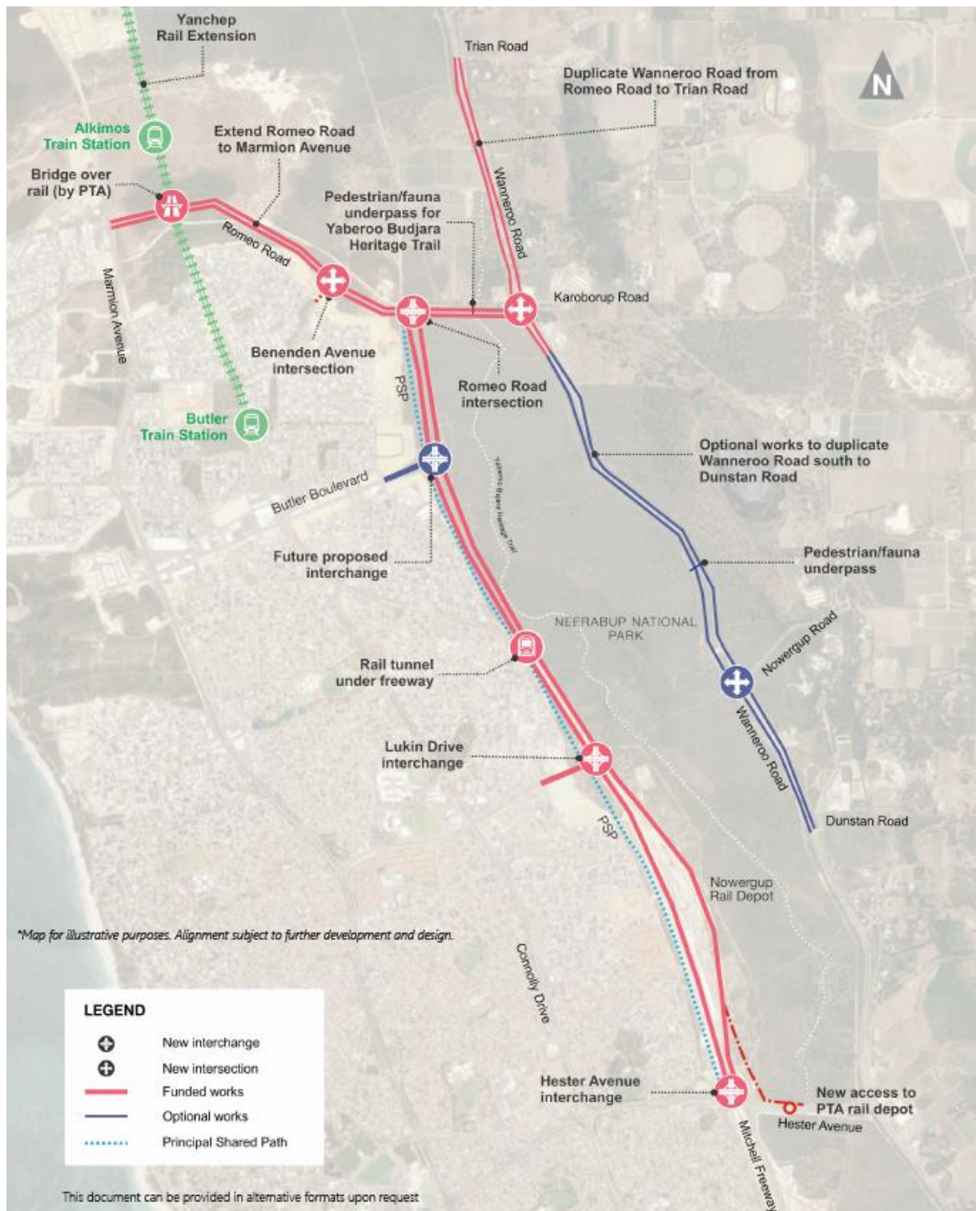
<sup>1</sup> <https://www.mediastatements.wa.gov.au/Pages/McGowan/2019/03/Mitchell-Freeway-extension-to-Romeo-Road-to-start-next-year.aspx>



### 1.1.2 Construction works (unfunded optional works)

Unfunded optional works include:

- 3.6 km duplication of Wanneroo Road from Dunstan Road to south of Romeo Road
- Improvements to Wanneroo Road/Nowergup Road intersection.



**Plate 1 Funded and optional works**

## 1.2 Excision of land from Neerabup National Park

To facilitate the construction and operation of the Proposal, Main Roads requires to excise various parcels of land from Neerabup National Park and adjacent Neerabup Nature Reserve. Main Roads is consulting and working with Department of Biodiversity Conservation and Attractions (DBCA) Swan Coastal District to progress the excision process.

### 1.2.1 Metropolitan Regionals Scheme Amendment 992/33

The Western Australian Planning Commission (WAPC) initiated a Major Metropolitan Region Scheme (MRS) Amendment 992/33 Clarkson-Butler, which comprised eleven amendments for rezoning and reservation in the north-west corridor of the metropolitan region. Of the eleven amendments, six were considered by the Environmental Protection Authority (EPA) to have the potential to significantly impact on the environment and were assessed pursuant to Section 48A of the *Environmental Protection Act 1986* (EP Act). The six proposed scheme amendments subject to assessment under Section 48A of the EP Act included:

- Adjustments of the existing "Primary Regional Roads" reservation for Wanneroo Road (Proposal 4)
- Reservation of the proposed Mitchell Freeway Transportation Corridor for "Primary Regional Roads" to enable future proposed extensions to the Mitchell Freeway (Proposal 5).

The EPA concluded Proposals 4 and 5 were environmentally acceptable provided the conditions recommended (i.e. to develop and implement environmental management plans) were imposed and enforced. The adjustments to Wanneroo Road (Proposal 4) included excision of 0.68 hectares (ha) from the Neerabup National Park and 1.7 ha of Nowergup Lake Fauna Sanctuary (now Neerabup Nature Reserve). 2.07 ha of the Neerabup National Park previously required for the road widening would no longer be required. The proposed Mitchell Freeway Transportation Corridor (Proposal 5) required excision of 132 ha of vegetation from the National Park.

In assessing the excisions from Neerabup National Park the EPA (2000) acknowledged the efforts in securing land for conservation purposes to achieve an overall increase in the size and improve the shape of Neerabup National Park. The loss of portions of Neerabup National Park were offset by the reservation for "Parks and Recreation" of approximately 190 ha of private land and existing reserves generally situated between the proposed Mitchell Freeway and Wanneroo Road. A further 382 ha of private land adjacent to Neerabup National Park has been reserved in previous MRS amendments. Therefore, the combined excisions and additions for MRS Amendment 992/33 and previous amendments has resulted in a net increase in the "Parks and Recreation" reservation adjacent to the Park of approximately 432 ha (WAPC 1999).

WAPC sought comments and information from the then National Parks and Nature Conservation Authority (NPNCA, now Conservation and Parks Commission) as the vestee of Neerabup National Park regarding the potential impacts of MRS Amendment 992/33 on the Park. In summary the NPNCA supported the MRS Amendment 992/33 as proposed, assuming that consolidation of the additional land occurred, future services crossing the Park were consolidated into the two east-west road carriageways proposed and fauna movement mitigation measures (e.g. underpasses) were considered.

Ministerial approval (Ministerial Statement 629) under Division 3 of Part IV of the EP Act was granted for MRS Amendment 992/33 on the 8 July 2003; which included the excision of land from the Neerabup National Park and Nature Reserve and addition of land to the "Parks and Recreation" reservation adjacent to the Park.



Although the combined excisions and additions following MRS Amendment 992/33 and previous MRS amendments has resulted in a net increase to the "Parks and Recreation" reservation; it is important to acknowledge several of the private property lots previously rezoned still remain in private ownership and are yet to be acquired by WAPC and subsequently amalgamated into the park. In addition, for various reasons, several of the WAPC freehold lots previously purchased for amalgamation into Neerabup National Park are yet to be formally transferred to the Conservation and Parks Commission.

### **1.3 Purpose and scope**

Main Roads engaged GHD to develop a mitigation strategy for the proposed excisions to Neerabup National Park and Neerabup Nature Reserve. The purpose of the mitigation strategy is to document the areas to be excised from or added to Neerabup National Park and Neerabup Nature Reserve as a result of the Proposal, and the mitigation actions proposed to result in a net benefit for Neerabup National Park and Neerabup Nature Reserve.

The mitigation strategy will be presented to the Conservation and Parks Commission and other stakeholders to support the excision process.

## 2. Areas to be excised and added

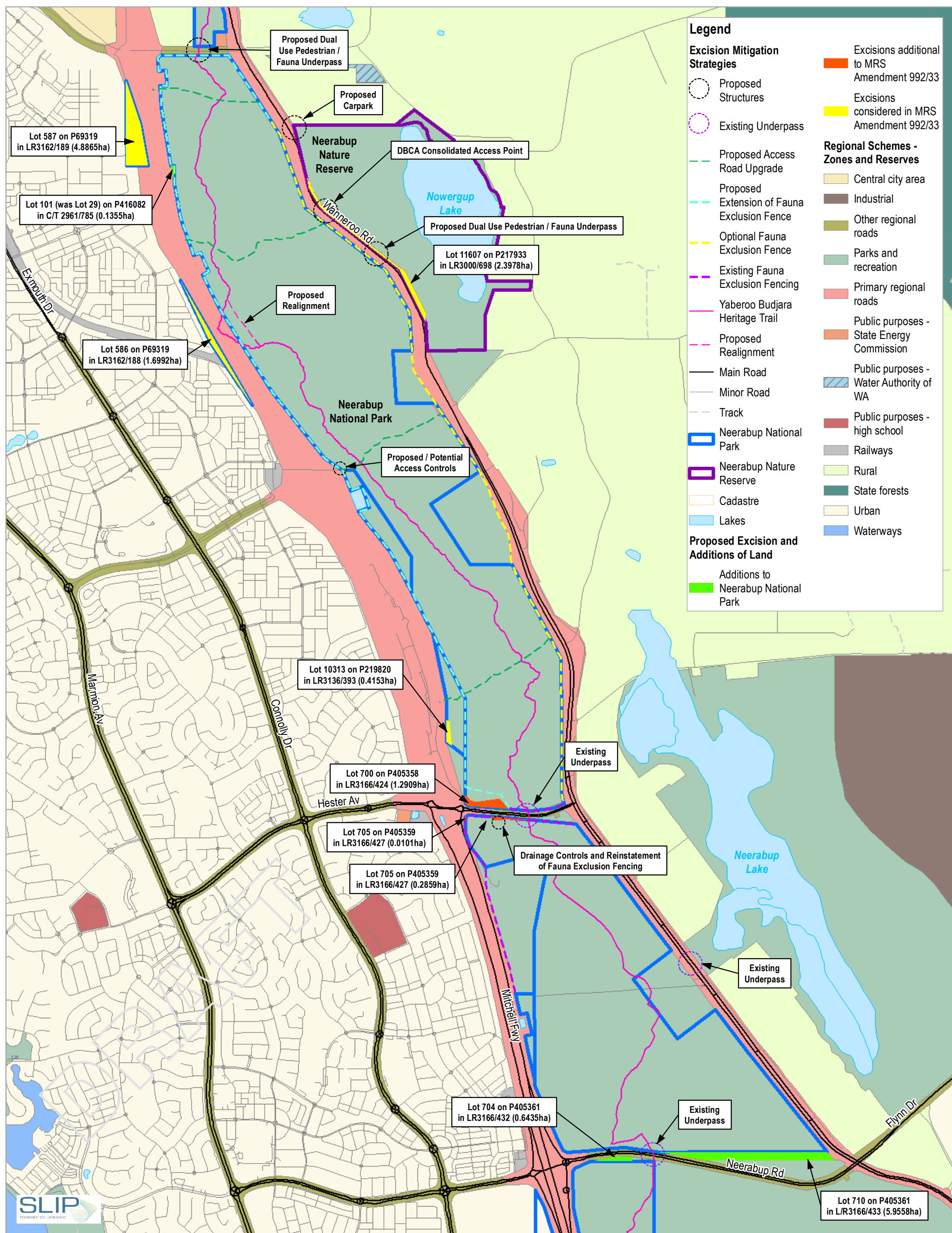
Some areas of MRS Amendment 992/33 have previously been excised from the Neerabup National Park/Nature Reserve and/or added to the "Parks and Recreation" reservation adjacent to the Park, to facilitate the construction of the Northern Suburbs Rail System and previous stages of the Mitchell Freeway extension.

This mitigation strategy includes excision or addition of a number of small land parcels to enable the Proposal to occur, which covers:

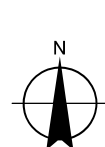
- 8.588 ha from six areas to be excised from Neerabup National Park for the Mitchell Freeway extension and upgrade to Wanneroo Road
- 2.398 ha from one area to be excised from Neerabup Nature Reserve for the upgrade to Wanneroo Road
- 6.735 ha to be added to Neerabup National Park from three areas.

Table 1 and Table 2 provides detail on each area of land included under this strategy, including feedback from DBCA with regards to the proposed excision. The spatial context of each area presented in Figure 1, with supplementary maps for each land parcel to be excised or added presented in Appendix A for more detail. The supplementary maps correspond to the 'Map Reference' column reference in Table 1 and Table 2.

Table 1 and Table 2 and Figure 1 identify which excisions were previously considered as part of MRS Amendment 992/33, which are additional excisions to that previously considered, and which are proposed additions.



Paper Size ISO A3  
0 150 300 450 600  
Metres  
Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia  
SR155 Mitchell Fwy Extension H-R EPBC PD

Overview of Proposed Excision and Additions of Land to Neerabup National Park and Nature Reserve and Mitigation Package

Project No. 61-38302  
Revision No. G  
Date 20/01/2020

FIGURE 1

Data source: GHD: Development Envelope - 20181025, Fauna Friendly Fence - 20191128, Trail WA: Yaberoo Budjara Historical Trails - 20191128, DBCA: Excision of Land - 20190508, Neerabup National Park, Neerabup Nature Reserve - 20191113, Excision Mitigation Strategies - 20191118, LGATE: Roads - 20191003. Created by: slei

**Table 1 Neerabup National Park / Nature Reserve excision – Mitchell Freeway Extension, Wanneroo Road and Hester Avenue widening**

Map Reference	Land Detail	Excision Area (ha)	DBCA Approval	Minister's Approval	City of Wanneroo Approval	DMIRS Approval	DBCA District / Region Comment	Environment / Heritage Values - undertaken in 2018 by Main Roads
MRWA Drawing No. 1360-023-1 MRWA Item on Map: 7	Lot 587 on P69319 in LR3162/189 Reserve No. R27575	4.8865	9/11/2015	4/12/2015	26/03/2018	14/10/2015 (for inclusion in the road reserve)	No objection. This portion of the National Park was rezoned to Urban in MRS Amendment 992/33. There is a long standing expectation that the land will be excised out of the park. Ensure DBCA is not left with a balance. The entire lot should be disposed of.	Up to 4.8865 ha removal of native vegetation in Good to Very Good condition. Banksia Woodland of the Swan Coastal Plain Threatened Ecological Community (Commonwealth listed) Black Cockatoo foraging habitat. No Black Cockatoo breeding trees identified No conservation significant flora species identified Indigenous and non-indigenous heritage surveys did not identify any sites of significance.
MRWA Drawing No. 1360-022-1 MRWA Item on Map: 5	Lot 586 on P69319 in LR3162/188 Reserve No. R27575	1.6992	9/11/2015	4/12/2015	26/03/2018	14/10/2015 (for inclusion in the road reserve)	No objection. This slither of land is left over as part of the historic Mitchell Freeway excision, MRS Amendment 992/33. This land has been problematic to manage given its size and isolation.	Up to 1.6992 ha removal of native vegetation in Very Good to Highly Degraded condition Mixed low heathland Black Cockatoo foraging habitat. No Black Cockatoo breeding trees identified No conservation significant flora species identified Indigenous and non-indigenous heritage surveys did not identify any sites of significance
MRWA Drawing No. 1360-021-4 MRWA Item on Map: 13	Lot 10313 on P219820 in LR3136/393 Reserve No. R27575	0.4153	Est. Feb 2020  s45(4) LAA	Est. April 2020  s45(4) LAA	3/12/2019	Requested 22/11/2019	No objection. This portion of the park is relatively degraded and should be included in the overall mitigation package for the project.	Up to 0.4153 ha removal of native vegetation in Degraded condition Scattered natives over weeds & Banksia low woodland

Map Reference	Land Detail	Excision Area (ha)	DBCA Approval	Minister's Approval	City of Wanneroo Approval	DMIRS Approval	DBCA District / Region Comment	Environment / Heritage Values - undertaken in 2018 by Main Roads
								<p>Low quality Black Cockatoo foraging habitat. No Black Cockatoo breeding trees identified</p> <p>No conservation significant flora species identified</p> <p>Indigenous and non-indigenous heritage surveys did not identify any sites of significance</p>
MRWA Drawing No. 1360-021-4 MRWA Item on Map: 12	Lot 700 on P405358 in LR3166/424 Reserve No. R27575	1.2909	Est. Feb 2020  s45(4) LAA	Est. April 2020  s45(4) LAA	3/12/2019	Requested 22/11/2019	<p>This is a newly proposed excision not previously considered as part of the EPA assessed MRS Amendment 992/33.</p> <p>The vegetation is in very good condition and the District recommends that a site-specific mitigation package be prepared by Main Roads which results in a net benefit to Neerabup National Park as part of the formal presentation of the proposal to the Conservation and Parks Commission.</p> <p>This could focus on improvements to visitor facilities in the park or rehabilitation to degraded areas.</p>	<p>Up to 1.2929 ha removal of native vegetation in Good to Very Good condition</p> <p>Banksia low woodland</p> <p>Black Cockatoo foraging habitat. No Black Cockatoo breeding trees identified</p> <p>No conservation significant flora species identified</p> <p>Indigenous and non-indigenous heritage surveys did not identify any sites of significance</p>



Map Reference	Land Detail	Excision Area (ha)	DBCA Approval	Minister's Approval	City of Wanneroo Approval	DMIRS Approval	DBCA District / Region Comment	Environment / Heritage Values - undertaken in 2018 by Main Roads
MRWA Drawing No. 1361-021-3 MRWA Item on Map: 11	Lot 705 on P405359 in LR3166/427 Reserve No. R27575	0.0101	30/01/2017	26/04/2017	28/09/2016	12/09/2016	This has previously been progressed for the relocation of a gas pipeline. This is a newly proposed excision not previously considered as part of the EPA assessed MRS Amendment 992/33.	Up to 0.0101 ha to be excised for Mitchell Freeway Already dealt with through Main Roads (Frank Mataboni) for relocation of ATCO pipeline in June 2017. MRWA Drawing No 1660-106 (Mitchell Fwy H16). Lands requested to progress the matter. Last email from Katherine McKelvie at Lands was 5/09/2018. Requested update 4/12/20
MRWA Drawing No. 1360-022-1 MRWA Item on Map: 6	Lot 11607 on P217933 in LR3000/698 Reserve No. R24581	2.3978	Est. Feb 2020  s45(4) LAA	Est. April 2020  s45(4) LAA	3/12/2019	Requested 22/11/2019	No objection. This excision was previously considered as part of the EPA Assessment of MRS Amendment 992/33. Main Roads have proposed a pedestrian/fauna underpass and walk trail extension to link the National Park to the Neerabup Nature Reserve in this area, which will be of benefit to park users. The clearing impacts associated with this excision will form part of the overall project mitigation package. The clearing impacts associated with this excision will form part of the overall project mitigation package.	Up to 2.3978 ha removal of native vegetation in Good to Very Good condition Jarrah/Marri woodland & Banksia low woodland Black Cockatoo foraging and breeding habitat. Up to 20 trees with >50cm diameter breast height (DBH) could be impacted No conservation significant flora species identified Indigenous and non-indigenous heritage surveys did not identify any sites of significance
MRWA Drawing No. 1960-055	Lot 705 on P405359 in LR3166/427 Reserve No. R27575	0.2859	Est. Feb 2020  s45(4) LAA	Est. April 2020  s45(4) LAA	3/12/2019	Requested 22/11/2019	This is a newly proposed excision not previously considered as part of the EPA assessed MRS Amendment 992/33.	Up to 0.2859 ha removal of native vegetation in Good to Very Good condition (Part of which has been cleared to accommodate existing access).



Map Reference	Land Detail	Excision Area (ha)	DBCA Approval	Minister's Approval	City of Wanneroo Approval	DMIRS Approval	DBCA District / Region Comment	Environment / Heritage Values - undertaken in 2018 by Main Roads
							<p>The vegetation is in very good condition and the District recommends that a site-specific mitigation package be prepared by Main Roads which results in a net benefit to Neerabup National Park as part of the formal presentation of the proposal to the Conservation and Parks Commission.</p> <p>This could focus on improvements to visitor facilities in the park or rehabilitation to degraded areas.</p>	<p>Banksia low woodland Black Cockatoo foraging habitat. No Black Cockatoo breeding trees identified No conservation significant flora species identified Indigenous and non-indigenous heritage surveys did not identify any sites of significance</p>

**Table 2 Neerabup National Park – land to be added to park**

DBCA Map	Land Detail	Area added (ha)	DBCA Approval	Minister's Approval	City of Wanneroo Approval	DMIRS Approval	DBCA District / Region Comment	Environment / Heritage Values - undertaken in 2018 by Main Roads
MRWA Drawing No. 1360-023-1 MRWA Item on Map: 2	Lot 101 (was Lot 29) on P416082 in C/T 2961/785	0.1355	Est. Feb 2020 s45(20(a)) LAA	Est. April 2020 s45(20(a)) LAA	3/12/2019	Requested 22/11/2019	Noted and supported.	Part of Lot 101 owned by Main Roads WA is surplus to Mitchell Freeway requirement - to be added to Neerabup National Park.
MRWA Drawing No. 1360-020-3	Lot 704 on P405361 in LR3166/432 Reserve No. UCL	0.6435	Est. Feb 2020 s45(20(a)) LAA	Est. April 2020 s45(20(a)) LAA	3/12/2019	Requested 22/11/2019	Noted and supported. This land was surplus to requirements given that the alignment for Neerabup Road was moved further south as part of the previous stage of the Mitchell Freeway Extension.  This land was previously proposed to be amalgamated into the park as part of that project so it is encouraging that this amalgamation may now proceed as part of this stage.	UCL Lot 704 owned by State of WA is surplus to Mitchell Freeway requirement - to be added to Neerabup National Park.
MRWA Drawing No. 1360-020-3	Lot 710 on P405361 in L/R3166/433 Reserve No. UCL	5.9558	Est. Feb 2020 s45(20(a)) LAA	Est. April 2020 s45(20(a)) LAA	3/12/2019	Requested 22/11/2019	Noted and supported. This land was surplus to requirements given that the alignment for Neerabup Road was moved further south as part of the previous stage of the Mitchell Freeway Extension.  This land was previously proposed to be amalgamated into the park as part of that project so it is encouraging that this amalgamation may now proceed as part of this stage.	UCL Lot 710 owned by State of WA is surplus to Mitchell Freeway requirement - to be added to Neerabup National Park.

### 3. Mitigation actions

Historically, the excision of land from Neerabup National Park as part of MRS Amendment 992/33 has been offset by the reservation for "Parks and Recreation" under the same and earlier MRS amendments, resulting in a net increase in the "Parks and Recreation" reservation adjacent to the Park of approximately 432 ha (WAPC 1999).

As presented in Table 1 and Table 2 and Figure 1, a total of 7.287 ha of excision included in this strategy was considered as part of the EPA Assessment of MRS Amendment 992/33. The remaining 3.699 ha is newly proposed and has not been considered previously. 6.599 ha of the 6.735 ha to be added to Neerabup National Park was surplus to requirements, with this land previously proposed to be amalgamated into the Park, following the alignment of Neerabup Road moving south as part of the previous stage of the Mitchell Freeway extension.

With respect to the areas not previously considered under MRS Amendment 992/33 (Lots 10313, 700 and 705), the following site specific mitigation is proposed (detailed in Section 3.1):

- Re-instatement of fauna exclusion fencing
- Improved drainage onsite
- Protection of Black Cockatoo trees where practicable.

The following mitigation actions are proposed for the overall Proposal (detailed in Section 3.2) to provide a net benefit for Neerabup National Park and Nature Reserve:

- Installation of fauna exclusion fencing
- Installation of dual use fauna / pedestrian underpass
- Construction of carpark facilities to promote visitor access to the Park and Nature Reserve
- Access to the Yaberoo Budjara Heritage Trail
- Upgrade to access road/s within the National Park
- Landscaping with native plant species
- Weed management
- Signage.

Figure 1 presents indicative locations for the proposed mitigation actions, where these have specific locations. The exact locations of mitigation may be modified during the design process, and where this occurs it will be done in consultation with relevant stakeholders.

#### 3.1 Site specific mitigation

##### 3.1.1 Re-instatement of fauna exclusion fencing

Existing fauna exclusion fencing will be temporarily removed from Hester Avenue to facilitate construction of the proposed road and quarry access modifications. Temporary fencing will be established during this period. At the completion of construction, the fauna exclusion fencing will be re-instated to provide a permanent barrier to prevent uncontrolled access to protect to the Park's conservation value and reduce fauna movement across Hester Avenue. The re-instated fence will be consistent with the existing fencing (i.e. typically 1.8 m high with bottom skirting). Plate 2 provides an example of the fencing installed as part of previous stages of the Mitchell Freeway extension and proposed for this strategy.



**Plate 2 Example fencing**

### **3.1.2 Improved drainage onsite**

The quarry access road south of Hester Avenue will include drainage measures to manage and reduce sheet flow from the road reserve into the Park and treat stormwater onsite as part of these modifications. It is anticipated road stormwater runoff will be treated in vegetated swales or similar measures, and infiltrated into the ground. In addition to these new measures, Main Roads will investigate options to improve the existing drainage for the western section of the quarry access, which is not proposed to be re-aligned. Options to improve drainage will consider the requirement to undertake no additional clearing of native vegetation and will be considered throughout the design process with the final selection outlined at the detailed design phase.

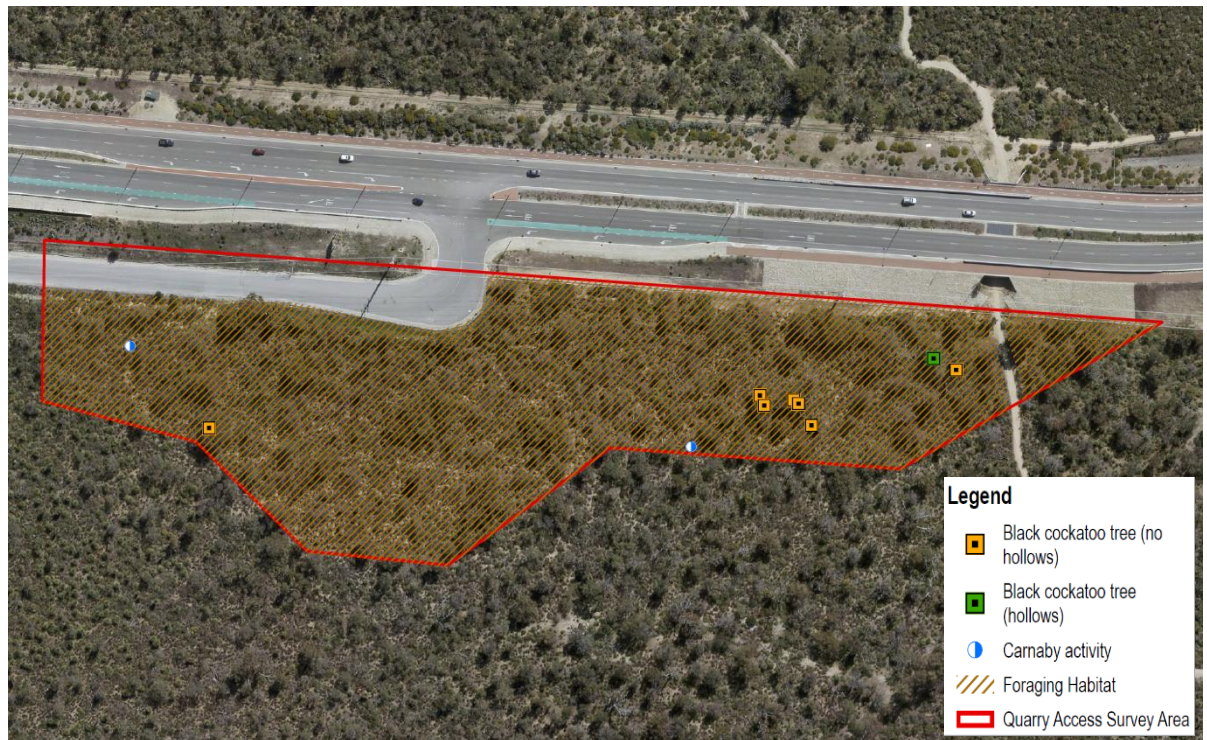
### **3.1.3 Protection of Black Cockatoo trees where practicable**

Main Roads commissioned a biological survey, including a targeted Black Cockatoo habitat assessment, of the quarry access road south of Hester Avenue to inform and support the environmental assessment and approvals process. The survey was completed in spring 2019.

Eight potential Black Cockatoo breeding trees (jarrah) were identified within the survey area (with a diameter at breast height >500 mm). Of these only one tree contained hollows. This tree contained one small hollow (<6 cm) and one large hollow (greater 10 cm). No evidence of breeding was observed. The location of the potential Black Cockatoo breeding trees was confirmed using a differential GPS and shown in Plate 3. There are no potential Black Cockatoo breeding trees within Lots 10313, 700 and 705; Appendix A.



Where practicable, the design of the quarry access road and associated drainage south of Hester Avenue will avoid and protect the potential Black Cockatoo breeding trees identified. This will occur through refinement of the project and construction footprint.



**Plate 3 Potential Black Cockatoo breeding trees near quarry access road south of Hester Avenue**

Main Roads will apply the following mitigation actions during design and construction of the quarry access road:

- Clearing of native vegetation will be limited to area required for safe construction and operation, in accordance with Main Roads standards
- Mature trees will be retained as far as practicable and will not be removed for temporary construction works.

## 3.2 Park focused mitigation

### 3.2.1 Installation of fauna exclusion fencing

Fauna exclusion fencing will be constructed to provide a barrier to prevent uncontrolled vehicular access and illegal rubbish dumping, to protect to the Park's conservation value. The fence will also reduce uncontrolled access by pedestrians, cyclists and off road vehicles. The enhanced access controls will help to minimise the spread of dieback and weeds into the Park and the risk of uncontrolled fire outbreaks.

The fencing will typically be 1.8 m high with bottom skirting, to minimise fauna interaction with adjacent roads and urban areas. The design will be consistent with the existing fencing proposed to be re-instated under Section 3.1.1 and shown in Plate 2.

The fence installation will allow the incorporation of fire breaks to be established at the boundary of the road reserve and Neerabup National Park. This will reduce indirect impacts and allow improved access, to facilitate management of weed infestation and reduce fire risks. DBCA



requested that the contractor installing the fence be engaged to clear on the National Park side of the fence. This activity can proceed under a DBCA Regulation 4 permit.

Main Road will install fencing on the eastern side of the Mitchell Freeway extension, Romeo Road and small portions of Wanneroo Road. The fencing will be integrated with existing fencing to impede unauthorised human access to Neerabup National Park; and proposed dual use fauna / pedestrian underpass to guide fauna through these access structures to aid safe movement between vegetated areas.

If funding is available, Main Roads will extend the fauna exclusion fencing from Hester Avenue to Romeo Road on the western side of Wanneroo.

### **3.2.2 Fauna/pedestrian underpass**

To maintain and improve fauna linkages between the Neerabup National Park and remnant bushland to the north and west, two dual use pedestrian / fauna underpasses (approximately 2.7 m high x 4.6 m wide) are proposed to be installed. One underpass will be incorporated in the Proposal, under Romeo Road where the Yaberoo Budjara Heritage Trail intersects the road. If funding is available a second underpass will be installed under Wanneroo Road to create a linkage between the National Park and Nature Reserve.

In addition to benefitting the movement of ground dwelling fauna, the installation of the underpasses will support and facilitate public access, enjoyment and use of the park and reserve. Plate 4 provides an example of a dual use pedestrian / fauna underpass, which was installed under Hester Avenue to provide a linkage within Neerabup National Park following road construction.



**Plate 4 Example underpass**



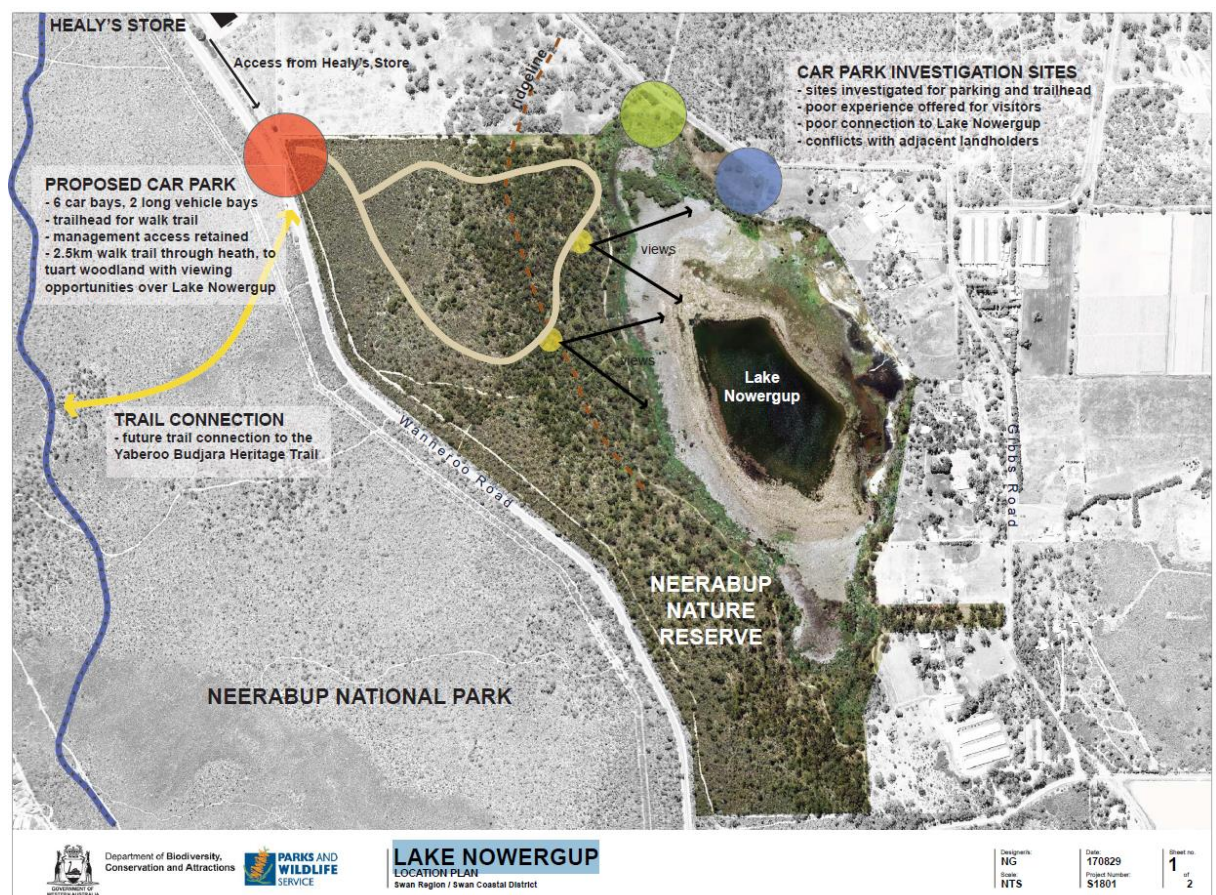
### 3.2.3 Construction of carpark facilities

Installation of a carpark on the north-west corner of Neerabup Nature Reserve is proposed, along with associated road modifications to support the walk trail under construction by DBCA. The proposed car park is east of Wanneroo Road at approximate Straight Line Kilometre (SLK) 38.

The location of the proposed carpark (and associated Neerabup Nature Reserve improvements) are shown in Plate 5. Whereas Plate 6 provides an indicative carpark layout and associated road modifications. It is proposed the carpark will include:

- Six car bays and two long vehicle bays
- Limestone base and/or sealed
- Long vehicle turn around at the end of the road
- Retained access to the management tracks
- Collector path to trailhead.

Construction of carpark facilities will improve the visitor access and nature experience to Neerabup Nature Reserve. It may also provide another potential access connection to the Yaberoo Budjara Heritage Trail within the Neerabup National Park. This future trail connection would be the responsibility of DBCA to construct and could be planned to utilise the proposed underpass on Wanneroo Road between the Neerabup National Park and Nature Reserve.



**Plate 5 Lake Nowergup visitor improvement**





**Plate 6 Lake Nowergup visitor parking**

### 3.2.4 Access to the Yaberoo Budjara Heritage Trail

DBCA has communicated the importance of encouraging use of Neerabup National Park by the public. To facilitate use of the existing Yaberoo Budjara Heritage Trail within the National Park (see Plate 7) managed access is required. Main Roads will incorporate an access control point into the Proposal design to create an additional link to the heritage trail.

Preliminary conversations with DBCA identified the Mitchell Freeway extension / Lukin Drive interchange as the preferred location for the heritage trail access control point. This location was selected to encourage the local Butler community and public that utilise the Principal Shared Path (PSP) to access the National Park.

The Proposal will incorporate a PSP alongside Mitchell Freeway between Hester Avenue and Romeo Road. This PSP is identified in the Department of Transport's Principal Shared Path Expansion Program, which is a key action of the Western Australian Bicycle Network Plan. This separate, but integrated initiative, will provide access to a larger proportion of the community.

The existing Yaberoo Budjara Heritage Trail will be realigned where it intersects the Mitchell Freeway proposed road corridor. DBCA will be engaged to facilitate potential clearing required within the National Park, to ensure amenity and interpretation of the trail within the native vegetation rather than along the freeway fencing.





**Plate 7    Heritage trail**

### **3.2.5    Access road upgrade to park**

DBCA currently have a number of formal and informal locations along Wanneroo Road to gain vehicle access to Neerabup National Park. Main Roads, in consultation with DBCA, has identified one location where upgrades will occur to improve and manage vehicle access. This consolidation of access roads into the Park will reduce the risk of vehicle access by unauthorised individuals. The DBCA consolidated access point will involve:

- Sufficient line of sight to allow vehicles to safely depart and enter traffic
- Sufficient space to allow temporary vehicle stopping
- Vehicle access for vehicles traveling north or south.

### **3.2.6    Landscaping with native species**

The Development Envelope will include landscaping/revegetation comprising a mix of local, native species. This landscaping will provide a buffer between the road corridor and the Neerabup National Park and Neerabup Nature Reserve. The presence of a managed, native vegetation buffer will further minimise potential edge impacts into the National Park and Nature Reserve.

The landscaping will:

- Be designed to be self-sustaining, structurally and species diverse vegetation, with minimal watering requirements for establishment

- Utilise local provenance, native species to revegetate areas adjacent to Neerabup National Park and Neerabup Nature Reserve
- Not include Black Cockatoo foraging or breeding plant species within 10 m of the road
- Integrate with fauna/pedestrian underpasses, where appropriate
- Be maintained for the first three years (at least two summers) following establishment, including monitoring and weed control within and adjacent to revegetation / landscaping areas.

### 3.2.7 Weed management

The flora and vegetation survey (GHD 2019) of the Proposal Development Envelope and buffer recorded eight Declared Pests under the Western Australian *Biosecurity and Management Act 2007* and four Weeds of National Significance (WoNS):

- \**Moraea flaccida* (One-leaf Cape Tulip) – Declared Pest
- \**Gomphocarpus fruticosus* (Narrowleaf Cottonbush) – Declared Pest
- \**Echium plantagineum* (Paterson's Curse) – Declared Pest
- \**Solanum linnaeanum* (Apple of Sodom) – Declared Pest
- \**Opuntia stricta* (Common Prickly Pear) – Declared Pest and WoNS
- \**Lantana camara* (Common Lantana) – Declared Pest and WoNS
- \**Asparagus asparagoides* (Bridal Creeper) – Declared Pest and WoNS
- \**Zantedeschia aethiopica* (Arum lily) – Declared Pest and WoNS.

The predominant Declared Pests recorded were *A. asparagoides* and *M. flaccida*, with isolated records of other Declared Pests.

Active weed management within the Proposal Development Envelope will reduce the risk of indirect impacts to the Neerabup National Park from construction and operation of the Proposal. Weed management will be supported by the introduction of the fauna exclusion fencing (see Section 3.2.1) and landscaping with native species (see Section 3.2.6).

The following management measures will be implemented:

- Declared Plants within the Development Envelope will be treated according to their Control Codes and advice from Department of Primary Industries and Regional Development (DPIRD), with the aim of eradication where possible but as a minimum prevent off site movement
- WoNS and environmental weeds within the Development Envelope will be treated according to the weed control management outlined by Weeds Australia (<http://weeds.ala.org.au/>) with the aim of controlling off-site movement
- Topsoil containing Declared Pests or WoNS shall not be reused in landscaping or revegetation.
- All heavy plant and machinery will be inspected by the contractor prior to entry at the work site and be confirmed to be clean and free of vegetation and soil material
- Topsoil from infected or potentially infected Phytophthora dieback areas (including within 20 m of mapped *P. multivora* and *P. nicotianae* infected sites) shall be segregated and not used in non-infected areas
- Clean on Entry and/or Exit (CoE) procedures will be implemented on site, and entry and exit records kept for CoE points.



Main Roads will also investigate the need for weed surveys within the Neerabup National Park adjacent to the Development Envelope. This assessment would provide a baseline to allow potential indirect impacts associated with the Proposal to be monitored and managed through construction.

### **3.2.8 Interpretative signage**

Main Roads will consult with BDCA to construct two new signs to encourage the use of Neerabup National Park. One of these signs will be located in association with the new access control point (see Section 3.2.4), with the other potentially sited in association with one of the fauna/pedestrian underpass (see Section 3.2.2).

Plate 8 and Plate 9 provide example of proposed signage options.



**Plate 8 Example signage**



**Plate 9      Example interpretive signage**



## 4. References

Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) 2012, *Environment Protection and Biodiversity Act 1999 referral guidelines for three threatened black cockatoo species: Carnaby's Black Cockatoo (endangered) *Calyptorhynchus latirostris*, Baudin's Black Cockatoo (vulnerable) *Calyptorhynchus baudinii* and Forest Red-tailed Black Cockatoo (vulnerable) *Calyptorhynchus banksia naso**, Australian Government Canberra.

Environmental Protection Authority 2000, *Metropolitan Region Scheme Amendment No. 992/33 Clarkson-Butler, Wanneroo, Western Australian Planning Commission, Report and recommendations of the Environmental Protection Authority*. Environmental Protection Authority, Bulletin 971, March 2000, Perth WA

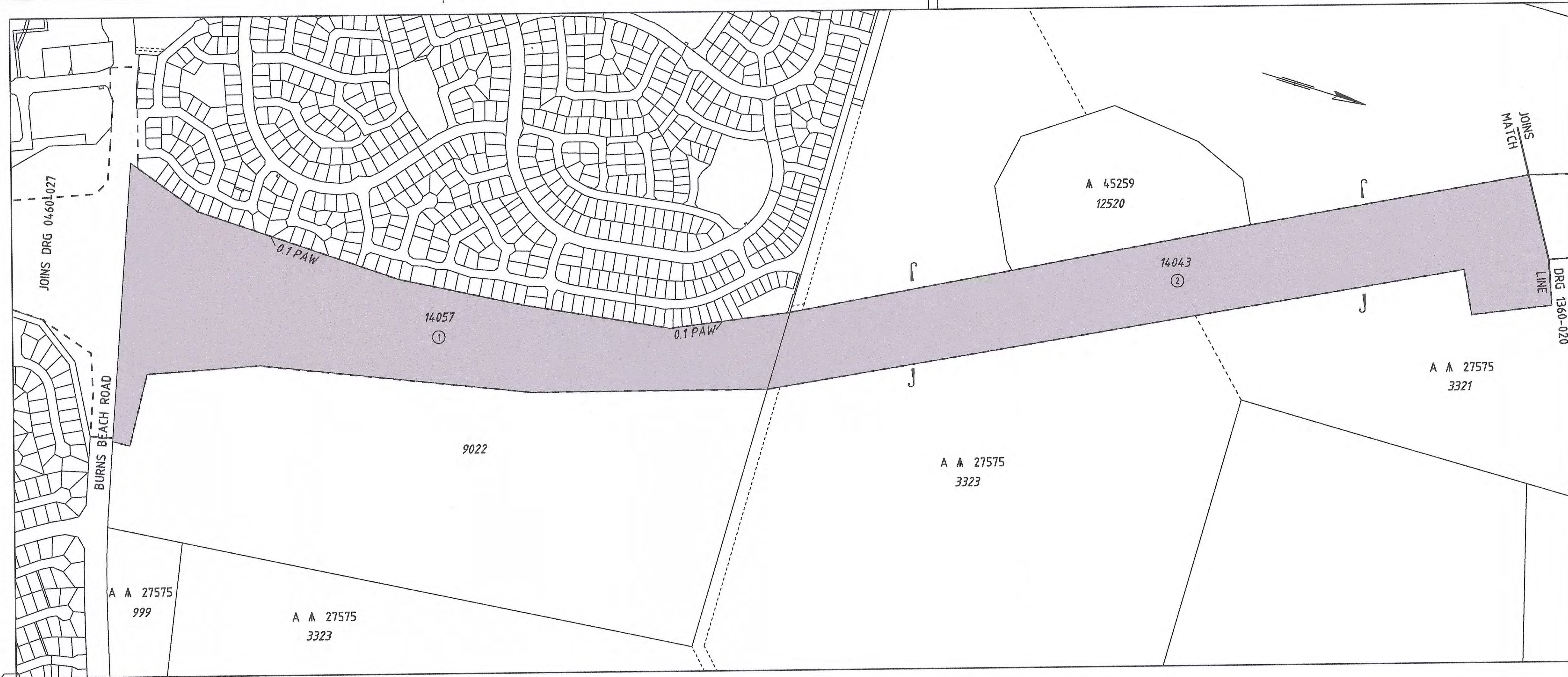
GHD 2019, *Mitchell Freeway Extension Hester Avenue to Romeo Road, Biological Survey*, report prepared for Main Roads Western Australia, June 2019.

Western Australian Planning Commission 1999, *Metropolitan Region Scheme Amendment No 992/33 Clarkson-Butler Environmental Review Summary Report*. Western Australian Planning Commission, September 1999, Perth WA

# Appendices

## **Appendix A** - Maps for each land parcel to be excised or added





ITEM	DESCRIPTION	C/T	OWNERSHIP	TOTAL AREA REQUIRED	REMARKS
1	LOT 14057	2209/914	WAPC	21.7773 ha	TAKING ORDER: H755377
2	LOT 14043	LR 3124/566	STATE OF W.A.	38.8336 ha	UCL 19.678 ha THIS SHEET

AMENDMENTS	DESCRIPTION	AUTHORISED	DATE	MICRO DATE

**LEGEND**

LAND REQUIRED FOR ROAD PURPOSES

BOUNDARY TO BE SURVEYED.

**NOTES**

1. DIMENSIONS AND AREAS ARE APPROXIMATE ONLY AND ARE SUBJECT TO SURVEY.

2. S.L.K. IS A M.R.W.A. STRAIGHT LINE KILOMETRE AND IS APPROXIMATE ONLY.

3. CADASTRAL MODEL : CAD1093A

4. HORIZONTAL DATUM IS MGA 94.

**INFRASTRUCTURE DELIVERY DIRECTORATE**

Telephone 9323 4636 Fax 9323 4630

**APPROVED FOR IMPLEMENTATION**

FILE NUMBER	DATE	APPROVAL NUMBER
12/8310		

AUTHORISED	13/05/14
APPROVED	13/05/14

**mainroads** WESTERN AUSTRALIA

FINANCE AND SERVICES  
**PROPERTY MANAGEMENT**

Telephone 9323 4580 Fax 9323 4600

DRAWN/DESIGNED	W.M. ROLLINGS	DATE
AUDITED IN ACCORDANCE WITH STANDARD 67-08-48 IN THE ROAD AND TRAFFIC ENGINEERING MANUAL.		13/05/14

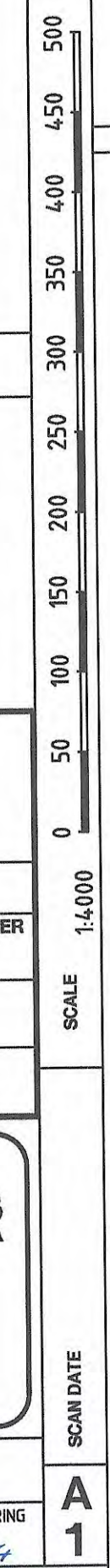
**MITCHELL FWY H16**

LAND DEALINGS

29.5 - 32.24 SLK

SHEET 1 OF 5

LOCAL AUTHORITY (110) CITY OF WANNEROO	DRAWING NUMBER	AMEND.
DRAWING TYPE 7200	1360-019	
FILE NUMBER		

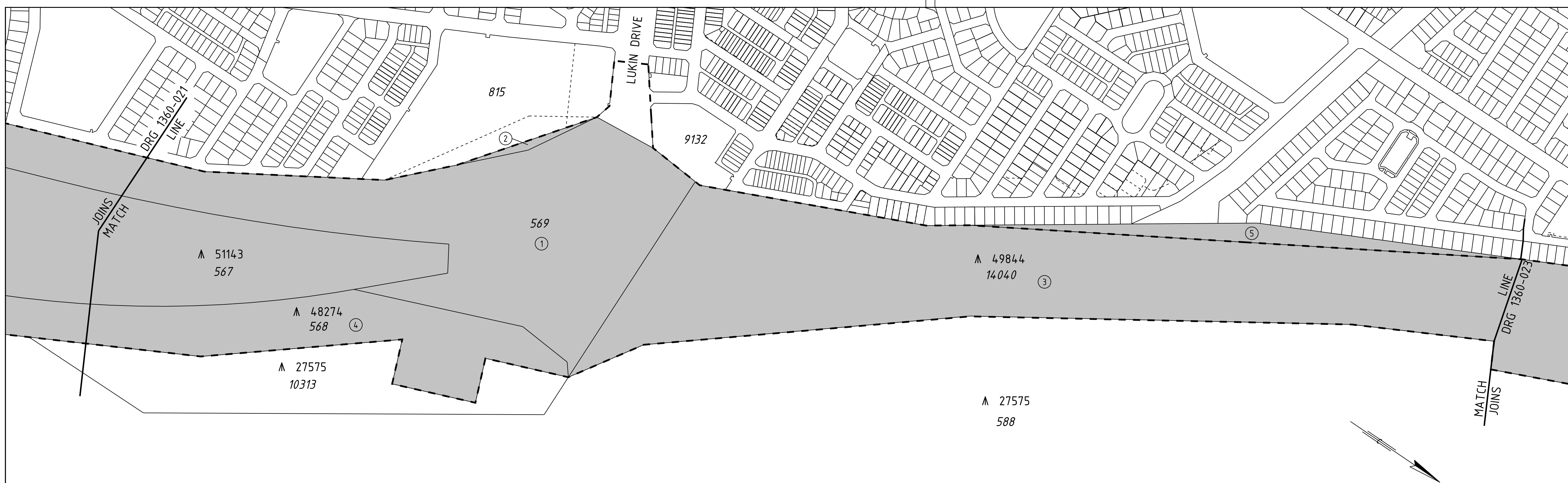




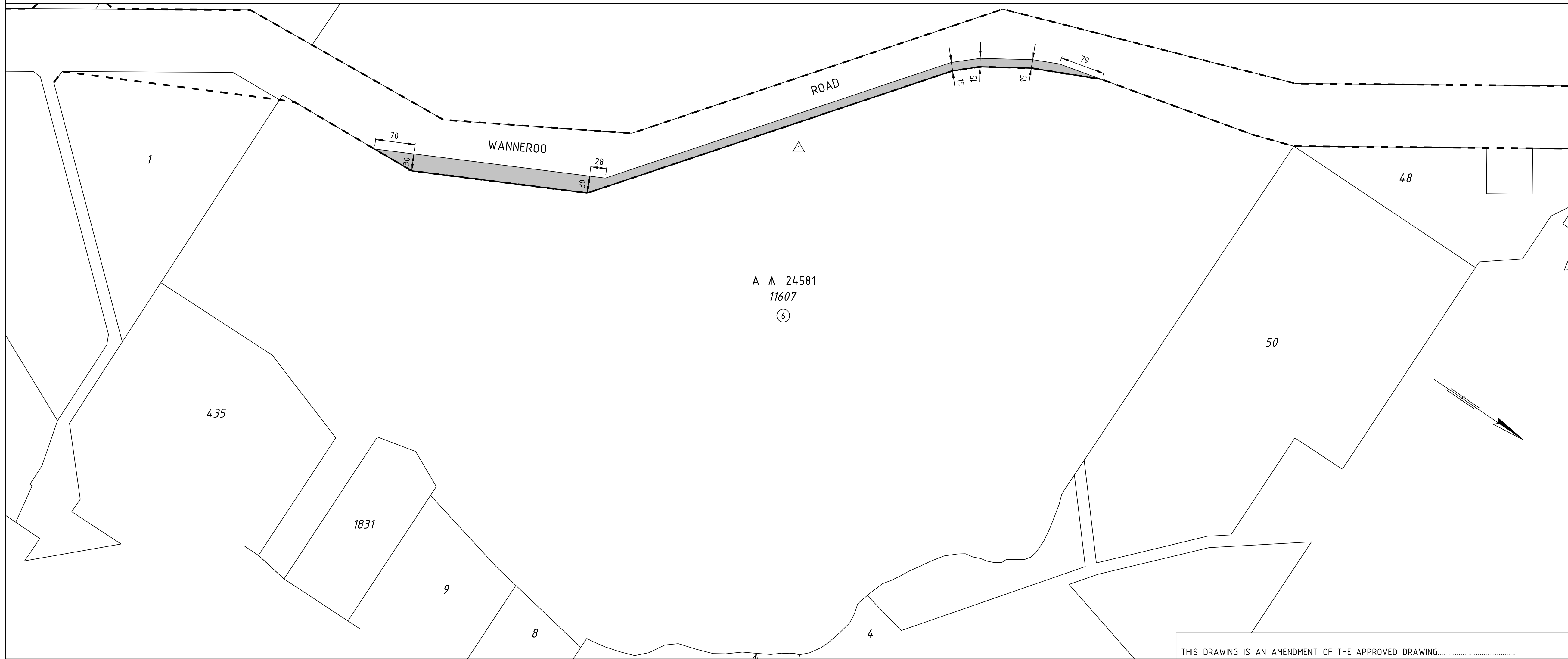










ITEM	DESCRIPTION	C/T	OWNERSHIP	TOTAL AREA REQUIRED	REMARKS	
1	LOT 569	2785/870	CMR	38 59 ha	175617 ha THIS SHEET	
2	LOT 813	2757/193	CMR	2040 m <sup>2</sup>		
3	C A 49844 (LOT 10400)	LR 3124/568	CMR	46 8554 ha	PURPOSE: ROAD 26 7397 ha THIS SHEET	
4	C A 48274 (LOT 568)	LR 3161/679	CMR	16 2934 ha	M.O.: J391140 PURPOSE: ROAD AREA THIS SHEET = 7.7067 ha	
5	A 27575 (LOT 586)	LR 3162/188	NATIONAL PARKS AUTH. W.A.	16992 ha	M.O.: G538629 PURPOSE: NATIONAL PARK	⚠
6	A A 24581 (LOT 11607)	LR 3000/698	NATIONAL PARKS AUTH. W.A.	2 3978 ha	M.O.: I347600 PURPOSE: CONSERVATION OF FLORA & FAUNA	⚠

[illegible]

## AMENDMENTS

### LEGEND

-  LAND REQUIRED FOR ROAD PURPOSES  
 BOUNDARY TO BE SURVEYED.  
 MRS BOUNDARY
- 500

NOTES 300

1. DIMENSIONS AND AREAS ARE APPROXIMATE ONLY AND ARE SUBJECT TO SURVEY.
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4. HORIZONTAL DATUM IS MGA 94.

**INFRASTRUCTURE DELIVERY  
DIRECTORATE**

Telephone 9323 4030 Fax 9323 4930

APPROVED FOR IMPLEMENTATION	007
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FILE NUMBER 12/8310	DATE	APPROVAL NUMBER	SCALE
AUTHORISED	A. PAROLO 13/5/14		
APPROVED	K. KUGANANTHAN 13/5/14		

The logo for Mainroads Western Australia is centered. It features a circular emblem on the left with the text 'THE GOVERNMENT OF WESTERN AUSTRALIA' around the perimeter and a central shield depicting a kangaroo and a wheat sheaf. To the right of the emblem is a stylized 'Z' logo inside a circle, followed by the text 'mainroads' in a large, bold, sans-serif font, and 'WESTERN AUSTRALIA' in a smaller, all-caps, sans-serif font below it. Below the logo, the text 'FINANCE AND SERVICES' is written in a medium-sized, all-caps, sans-serif font, followed by 'PROPERTY MANAGEMENT' in a larger, bold, all-caps, sans-serif font. At the bottom, the contact information is displayed: 'Telephone 9323 4580' on the left and 'Fax 9323 4600' on the right, both in a medium-sized, sans-serif font. The entire advertisement is enclosed in a double-line border. On the right side of the page, outside the border, the date '14/5/14' is printed vertically, and at the bottom right, 'SCAN DATE' is printed vertically.

DRAWN/DESIGNED	W.M. ROLLINGS	DATE	A 1
AUDITED IN ACCORDANCE WITH STANDARD 67-08-48 IN THE ROAD AND TRAFFIC ENGINEERING MANUAL.			

MITCHELL FWY H16  
LAND DEALINGS  
37.31 - 39.74 SLK  
SHEET 4 OF 5

LOCAL AUTHORITY (110) CITY OF WANNEROO		
DRAWING TYPE	DRAWING NUMBER	AMEND.
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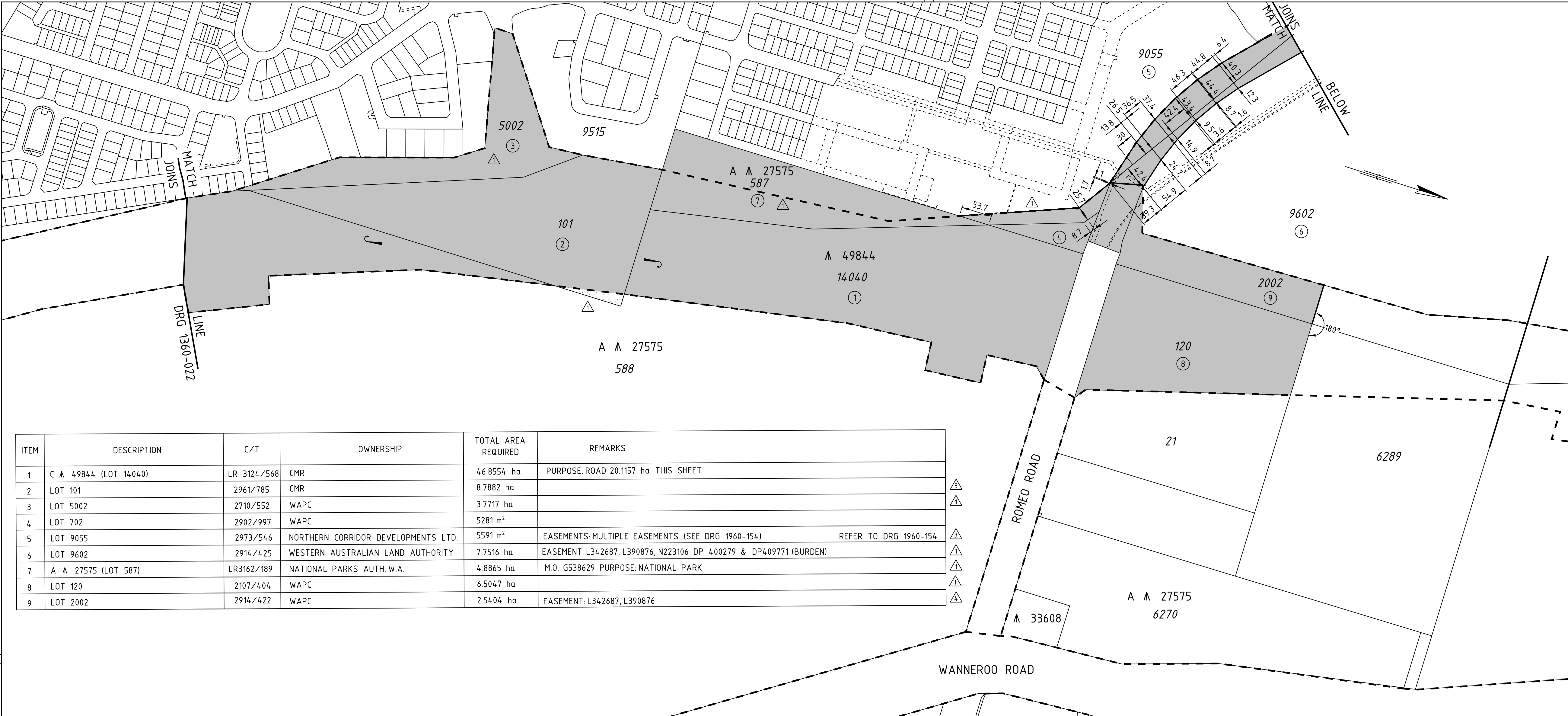
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FILE NUMBER 12/8310	

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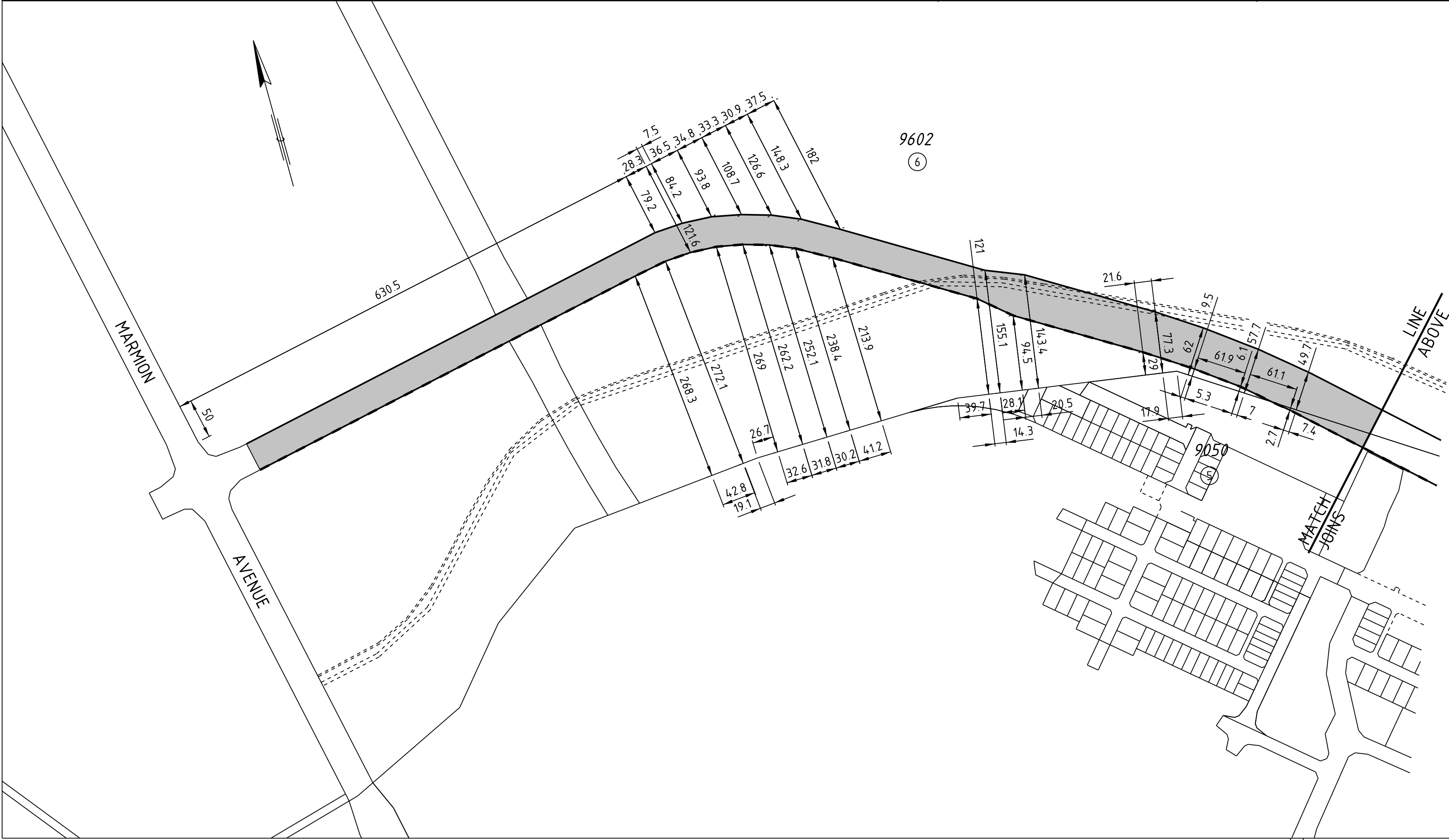
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1	A	SCAN DATE	14/5/14
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A  
1



ITEM	DESCRIPTION	C/T	OWNERSHIP	TOTAL AREA REQUIRED	REMARKS
1	C A 49844 (LOT 14040)	LR 3124/568	CMR	46.8554 ha	PURPOSE: ROAD 20.1157 ha THIS SHEET
2	LOT 101	2961/785	CMR	8.7882 ha	
3	LOT 5002	2710/552	WAPC	3.7717 ha	
4	LOT 702	2902/997	WAPC	5281 m²	
5	LOT 9055	2973/546	NORTHERN CORRIDOR DEVELOPMENTS LTD.	5591 m²	EASEMENTS: MULTIPLE EASEMENTS (SEE DRG 1960-154) REFER TO DRG 1960-154
6	LOT 9602	2914/425	WESTERN AUSTRALIAN LAND AUTHORITY	7.7516 ha	EASEMENT: L342687, L390876, N223106 DP 400279 & DP409771 (BURDEN)
7	A A 27575 (LOT 587)	LR3162/189	NATIONAL PARKS AUTH W.A.	4.8865 ha	M.O.: G538629 PURPOSE: NATIONAL PARK
8	LOT 120	2107/404	WAPC	6.5047 ha	
9	LOT 2002	2914/422	WAPC	2.5404 ha	EASEMENT: L342687, L390876



AMENDMENTS

NO	DESCRIPTION	AUTHORISED	DATE	MICRO DATE
1	ITEMS 1 & 5 AMENDED, ITEMS 7, 8 & 9 ADDED	W.M. ROLLINGS	24/6/19	24/6/19
2	ITEM 5 AMENDED	W.M. ROLLINGS	4/11/19	4/11/19
3	ITEM 5 AMENDED	W.M. ROLLINGS	8/11/19	8/11/19
4	ITEM 9 REQUIREMENT AMENDED	W.M. ROLLINGS	5/12/19	5/12/19
5	ITEM 2 TENURE AMENDED	W.M. ROLLINGS	13/1/2020	13/1/2020

LEGEND

LAND REQUIRED FOR ROAD PURPOSES

LAND SURPLUS TO REQUIREMENTS

BOUNDARY TO BE SURVEYED

MRS BOUNDARY

NOTES

1. DIMENSIONS AND AREAS ARE APPROXIMATE ONLY AND ARE SUBJECT TO SURVEY.

2. S.L.K. IS A M.R.W.A. STRAIGHT LINE KILOMETRE AND IS APPROXIMATE ONLY.

3. CADASTRAL MODEL : CAD1093A

4. HORIZONTAL DATUM IS MGA 94.

INFRASTRUCTURE DELIVERY DIRECTORATE

Telephone 9323 4636 Fax 9323 4930

APPROVED FOR IMPLEMENTATION

FILE NUMBER	DATE	APPROVAL NUMBER
12/8310		

AUTHORISED	A. PAROLO	13/5/14
APPROVED	K. KUGANANTHAN	13/5/14

mainroads

WESTERN AUSTRALIA

FINANCE AND SERVICES  
PROPERTY MANAGEMENT

Telephone 9323 4580 Fax 9323 4600

DRAWN/DESIGNED W.M. ROLLINGS DATE

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MITCHELL FWY H16  
LAND DEALINGS  
39.74 - 41.34 SLK  
SHEET 5 OF 5

LOCAL AUTHORITY (110) CITY OF WANNEROO

DRAWING TYPE 7200 DRAWING NUMBER AMEND.

FILE NUMBER 12/8310

1360-023-5

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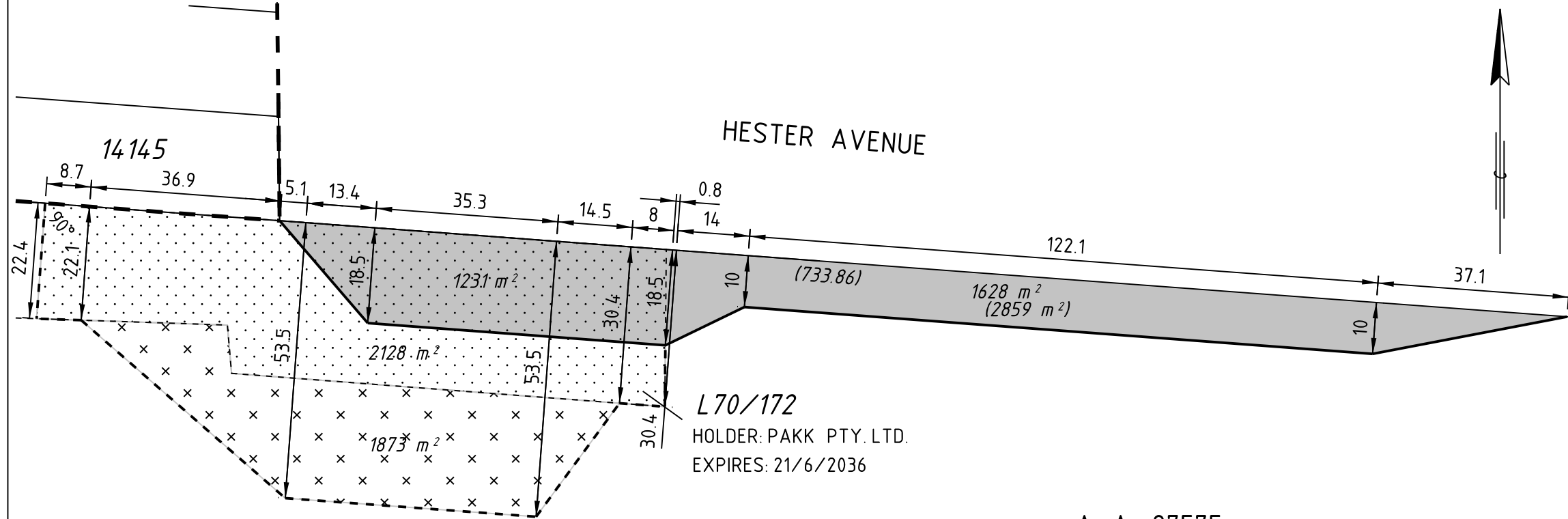
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14/5/14

SCANDATE

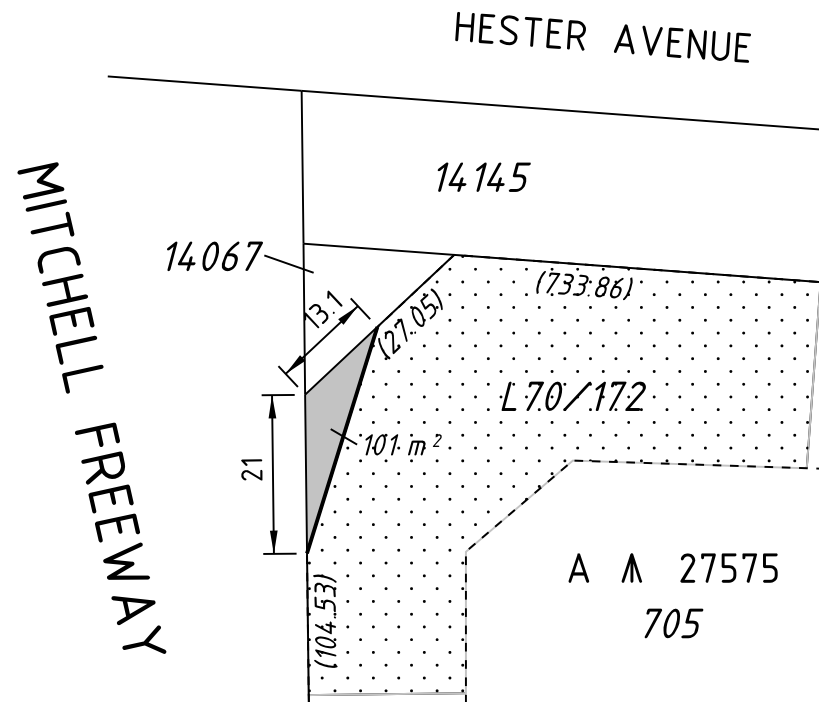
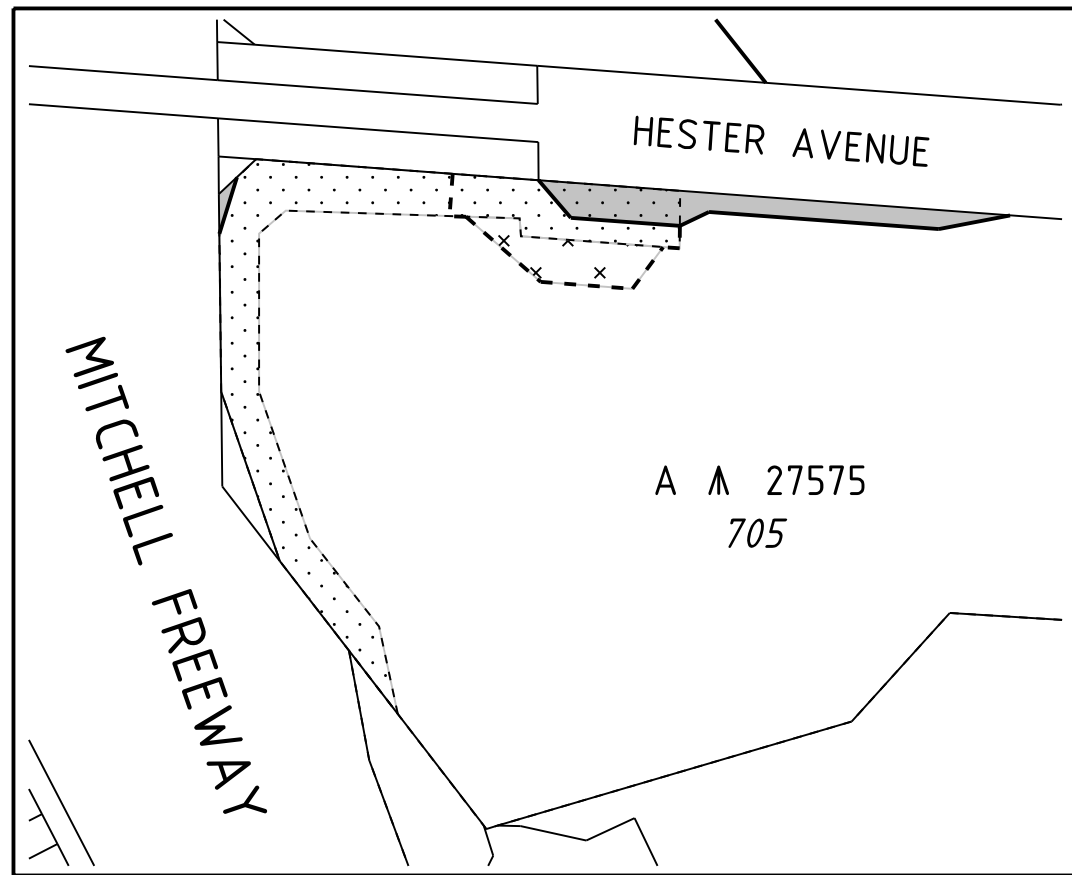
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N°	DESCRIPTION	VERIFIED	DATE	SCAN DATE
1.	GENERAL UPDATE	W.M. ROLLINGS	10/12/19	13/12/19



A M 27575  
705

STATUS: RESERVE UNDER MANAGEMENT ORDER  
 PRIMARY INTEREST HOLDER: NATIONAL PARKS AUTH. OF W.A.  
 PURPOSE: NATIONAL PARK  
 MANAGEMENT ORDER: G538629  
 TOTAL AREA = 6961 m<sup>2</sup>



## LEGEND

- LAND REQUIRED FOR ROAD PURPOSES TO BE EXCISED FROM NATIONAL PARK
- EXISTING MISCELLANEOUS LICENSE L70/172
- ADDITIONAL AREA TO BE INCLUDED IN MISCELLANEOUS LICENSE L70/172
- BOUNDARY TO BE SURVEYED.
- EXTENT OF WORKS
- MINING TENEMENT

## NOTES

- DIMENSIONS AND AREAS ARE APPROXIMATE ONLY AND ARE SUBJECT TO SURVEY.
- S.L.K. IS A M.R. STRAIGHT LINE KILOMETRE AND IS APPROXIMATE ONLY
- HORIZONTAL DATUM IS MGA 94.

## INFRASTRUCTURE DELIVERY DIRECTORATE

Telephone 9323 4636 Fax 9323 4930

### APPROVED FOR IMPLEMENTATION

FILE NUMBER	FOLIO	DATE	APPROVAL NUMBER
AUTHORISED	A. PAROLO	24/7/19	
APPROVED	C. RAYKOS	24/7/19	



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FILE No. 12/8310

DRAWN/DESIGNED W.M. ROLLINGS 9/4/18

AUDITED IN ACCORDANCE WITH STANDARD 67-08-48 IN THE ROAD AND TRAFFIC ENGINEERING MANUAL

## MITCHELL FWY H16

LAND DEALINGS

A M 27575 (LOT 705), 35.68 SLK

LOCAL AUTHORITY (110) CITY OF WANNEROO

DRAWING TYPE	DRAWING NUMBER	AMEND.
7200	1960-055-1	

THIS DRAWING IS AN AMENDMENT OF THE APPROVED DRAWING..... A. PAROLO 13/12/19.....

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999 Hay Street

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1136/[https://projects.ghd.com/oc/WesternAustralia2/sr155mfehrepbcprelim/Delivery/Documents/6138302-REP-Neerabup National Park Excision Strategy.docx](https://projects.ghd.com/oc/WesternAustralia2/sr155mfehrepbcprelim/Delivery/Documents/6138302-REP-Neerabup%20National%20Park%20Excision%20Strategy.docx)

#### Document Status

Revision	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	D Farrar	H Morgan		D Farrar		23/01/2020
1	D Farrar	H Morgan		D Farrar		03/02/2020
2	D Farrar	J Tindiglia		D Farrar		03/02/2020

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