



GatewayWA

Perth Airport and Freight Access Project



Management Plan

Gateway WA Perth Airport and Freight Access Project

Rehabilitation & Landscape Management Plan – Project Wide

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REVISION RECORDING

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A	18/03/2013	ACN	Draft Issue
0	21/05/2013	ACN	Final Issue for whole project (increase in length of monitoring time from 3 to 5 years as per DER requirement).

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1 INTRODUCTION

1.1 Terms and Definitions, Abbreviations and Acronyms

1.1.1 Terms and Definitions

Term	Definition
Rehabilitation	Returning a site to landform and vegetation type similar to that which was previously occurring.
Landscaping	Implementing a plan of planting and hard treatments to create an altered, more managed, landscape to that previously existing.
Topsoil	Naturally occurring soil up to approximately 150mm below the natural ground surface.

1.1.2 Abbreviations and Acronyms

Abbreviation/Acronym	Definition
EPBC Act	Environmental Protection and Biodiversity Conservation Act, 1999
CEMP	Construction Environmental Management Plan
MRWA	Main Roads Western Australia
RLMP	Rehabilitation and Landscape Management Plan

1.2 Project Scope and Background

The Gateway WA Perth Airport and Freight Access Project (the 'Project') focuses largely on road upgrades and new construction on the section of Tonkin Highway between Great Eastern and Roe Highways, as well as part of Leach Highway from Orrong Road to Perth Airport. The Project area is located immediately south and west of the existing Perth Airport and includes development within Westralia Airports Corporation land (Figure 1, Appendix A). This Plan outlines the rehabilitation plan and management of all areas of the Gateway WA Project (Figure 2).

The following road and bridge works are proposed as part of the Project:

- Upgrade of Tonkin Highway between Great Eastern Highway and Roe Highway;
- Major freeway to freeway interchange at Leach Highway / Tonkin Highway;
- Planning for a new interchange at Tonkin Highway and Boud Avenue;
- Diamond, grade separated interchange at Tonkin Highway / Horrie Miller Drive /Kewdale Road;
- Upgraded intersection at Roe Highway / Tonkin Highway;
- Intersection upgrade at Leach Highway / Abernethy Road; and
- Upgraded and control of access along Leach Highway between Orrong Road and Tonkin Highway.

The design and construction of the Project will be undertaken by the Gateway WA Alliance (Gateway WA). Gateway WA is an Alliance between Main Roads Western Australia and its design and construction partners, Leighton Contractors, Georgiou, GHD, AECOM and BG&E.

The Alliance is responsible for the implementation of the Project and compliance with the Project's environmental conditions and management measures detailed in this RLMP.

1.3 Scope of the document

The Project was assessed under the EPBC Act (EPBC 2010/5384). Approval of the project was acquired in February 2013 and is subject to a number of conditions. This Rehabilitation Management Plan (RLMP) has been developed to address one of those conditions.

Specifically, the scope of this RLMP is to:

- Provide environmental management procedures that:
 - Aim to mitigate the environmental impacts of the Project as far as practically possible through rehabilitation;
 - Are in accordance with relevant legislation, standards and government guidelines;
 - Identify those responsible for implementation;
- Define a monitoring and maintenance program that assesses the outcomes of the implementation;
- Define contingency actions that will be implemented should rehabilitation not meet success criteria.

2 MANAGEMENT PLAN OBJECTIVES

This RLMP has been developed with the overall objectives of mitigating the impacts to the environment through rehabilitation measures. The RLMP will assist all parties involved in the Project to meet the following aims:

- Comply with the conditions of any Government approvals relating to the Project;
- Ensure that opportunities for rehabilitation are identified and planned prior to construction commencement;
- Ensure that rehabilitation works are carried out, results monitored and mitigation undertaken beyond Project practical completion.

In addition to the above general management objectives, other objectives relevant to rehabilitation on roads include:

- Minimise erosion within the unsealed sections of the Project area;
- Minimise and mitigate impacts on the environment by using mostly indigenous native vegetation species consistent with adjacent communities;
- Utilise topsoil and mulch materials resulting from Project clearing works where suitable;
- Minimise and mitigate impacts on the environment by minimising the risk of introduction and spread of weeds within the rehabilitation areas and into vegetated areas directly adjacent to the Project boundary;
- road and traffic safety-driven objectives:
 - provide for appropriate 'clear zone' from the edge line of the road based upon Austroads guideline;
 - provide for appropriate safe 'sightlines' at all intersections and interchanges based upon Austroads guidelines.
- resource management driven objectives:
 - minimise on-going roadside management costs and future maintenance costs.

3 BASELINE ECOLOGICAL INFORMATION

3.1 Existing Information

Detailed environmental investigations were undertaken for the development of Public Environment Review required for assessment under the EPBC Act (Gateway Vision 2012). The investigations were undertaken by qualified botanists and fauna specialists and identified and mapped the following:

-
- Vegetation type;
 - Vegetation condition;
 - Presence of any Threatened or State listed Priority flora species;
 - Presence of any Threatened fauna species habitat;
 - Location of listed wetlands.

Environmental constraints, vegetation type and vegetation condition figures are attached in Appendix A below.

The results of the baseline surveys are summarized below:

- Vegetation of the Perth Airport land consists primarily of mixed Banksia woodland, with occasional patches of scattered trees of Jarrah (*Eucalyptus marginata*), WA Christmas Tree (*Nuytsia floribunda*) and Marri (*Corymbia calophylla*);
- Small areas of seasonal wetland/dampland are present, with scattered trees of paperbark (*Melaleuca preissiana*) over heath and sedges;
- Much of Tonkin and Roe Highway includes cleared and planted or revegetated areas;
- The major vegetation complexes are both classified as 'Vulnerable' in terms of extent of vegetation remaining compared to pre-European extents (EPA, 2006) with a small portion of vegetation at the Roe Highway/Tonkin Highway intersection (5 ha) being classified as 'Endangered', under the State listing.

Vegetation condition

The vegetation condition in the Project area ranges from *Completely Degraded* to *Excellent*, with the majority of the already disturbed along Tonkin highway classed as being *Degraded* to *Completely Degraded*.

Much of the Project area has a weed infested understory, with limited native understorey remaining. Some areas of Banksia woodland within Perth Airport are in *Excellent* condition with an intact and diverse understorey and minimal weed invasion.

The majority of the Project area along Tonkin Highway is considered uninterpretable and unprotectable for the Dieback fungus, *Phytophthora cinnamomi*. Areas of vegetation in *Very Good* to *Excellent* condition are generally not dieback infected, and if they are of reasonable size, can potentially be protected from the disease. Dieback and weed hygiene measures are provided in the Construction Environmental Management Plan (CEMP).

Flora

A total of 290 plant taxa, comprising of 245 native species and 45 introduced (exotic) species were recorded in the Project area. Parts of the area proposed for the Leach Highway and Tonkin Highway interchange are considered to be of high biodiversity, whilst the area for the Tonkin Highway and Boud Avenue interchange options is considered to be of low to moderate biodiversity.

Threatened Flora Species

Two Threatened Flora species have been recorded within the Project area: *Conospermum undulatum* and *Macarthuria keigheryi*. *Conospermum undulatum* is listed as Vulnerable, and *Macarthuria keigheryi* is listed as Endangered under the EPBC Act (1999).

Wetlands

A number of mapped wetlands are present within and adjacent to the Project. Of these, only Runway Swamp, a small seasonal pan, which has been previously used for peat extraction, retains surface water at any time of the year. All other wetlands are damplands, with a seasonally high water table.

The permanently protected wetland/dampland areas adjacent to the Project will be monitored for water quality changes over the life of the Project and for 3-years following Practical Completion. Details are provided in the Surface and Groundwater Management Plan.

4 REHABILITATION PLANNING AND MANAGEMENT

4.1 Related Documents

A number of documents are relevant to, or related to this RLMP.

4.1.1 Main Roads Guidelines

- Main Roads Western Australia (2004) Environmental Guideline: Revegetation Planning and Techniques. Doc. No. 6707/031;
- Main Roads Western Australia (2005a) Environmental Guideline: Vegetation Control Doc. No. 6707/045;
- Main Roads Western Australia (2005b) Environmental Guideline: Vegetation Placement within the Road Reserve. Doc. No. 6707/022.

4.1.2 GatewayWA documents

- Construction Environmental Management Plan;
- Revegetation and Landscape Specification 304;
- Urban Design Plan;
- Monitoring Plan.

4.2 Rehabilitation Planning

The rehabilitation of the Project will be planned prior to construction commencement.

Planning will include actions to:

- Protect native vegetation remnants where possible;
- Salvage plant materials;
- Salvage of topsoil;
- Undertake weed control;
- Source relevant plant tubestock and seed.

4.2.1 Protection of Existing Vegetation

The design and construction of the project will aim to retain as much native vegetation and other trees and shrubs as possible. This includes trees with potential for Black Cockatoo nesting in the future. Management actions to retain vegetation are:

- An Internal Clearing Permit will be approval by the Environment and Relationships Managers (or their representatives) to ensure the applicable environmental and social aspects of the clearing are considered and managed. The Clearing Permits will ensure that the applicable external approval conditions are complied with.
- Clearing will not be undertaken any further than 4 m from the boundary of earthworks unless required for safety reasons, or no other practical means of access to the site is available.
- Mature trees, trees of significance, remnant vegetation and threatened flora and communities will be retained as far as practicable and clearly marked on site and on clearing plans.
- Fencing (temporary or otherwise) will be placed to delineate the project area from retained significant mature trees. Signage will also be in place on the ground to further notify workforce that moving beyond the fence line is not allowed. This fence shall be fauna proof, where necessary, and installed prior to, or immediately after, the completion of clearing works in the vicinity and is to be approved by the Environmental Manager prior to works continuing.

-
- Existing cleared areas, or areas which will be cleared for the permanent infrastructure, will be utilised for temporary construction purposes, such as tracks, offices, stockpiling and laydown areas.
 - Vegetation will be pruned with a chainsaw in preference to clearing where practicable.
 - Plant/machinery used for pushing and heaping operations will be fitted with root rakes or similar equipment and operated in a manner such that as little soil as possible is removed and heaped with the cleared vegetative material.
 - Trees to be removed will be felled in a manner that they fall within the approved clearing area.
 - Cleared vegetation will not be burned on site.

4.2.2 Plant Salvage

Where relevant, plants, or plant material, will be salvaged to be re-used directly in rehabilitation on areas of the Project.

Actions to salvage plant material are:

- Native plant seed collection or direct plant salvage will occur in suitable locations, where it is safe to do so;
- Suitable plant material salvage zones will be mapped, based on vegetation type and condition and marked on construction drawings;
- All suitable woody and shrubby vegetation which is cleared will be chipped to a size suitable for mulch and stockpiled for later re-use;
- Stockpiles will be monitored for weeds and sprayed where necessary.

4.2.3 Treatment of Topsoil

Suitable topsoil can be re-used directly for rehabilitation or can be mixed with other soils or mulches to create soils suitable for plant growth.

Gateway WA will undertake the following actions for topsoil:

- Suitable topsoil will be stripped to a depth of approximately 100mm and stored in windrows or heaps no greater than 2m high;
- Unsuitable topsoil will be stripped and stored for treatment and mixing.

4.2.4 Weed Control

A detailed assessment of weed presence will be undertaken prior to commencement of construction. This information is required in order to plan the removal and treatment of topsoil for potential re-use.

Weed control will be required prior to clearing in some areas of the Project in order to reduce weed propagules in topsoil, remnant vegetation and temporarily cleared areas.

Weed control will focus on significant weeds, and on perennial weeds which have potential to impact rehabilitation materials or rehabilitation success. Chemicals used will be selected to ensure minimal risk to adjacent native vegetation or damplands.

4.2.5 Tubestock Sourcing

Tubestock will be sourced from local nurseries which have a high level of dieback management and prevention. A detailed plan for tubestock requirements will be developed during construction, with sufficient time for suitable plant stock to be grown or sourced. A range of plant sizes will be required.

The selection of local native plant species will be drawn from the species list identified during Project baseline studies. A list of species which could be used as either seed or tubestock is attached at Appendix B. Additional, suitable, species from the Swan Coastal Plain may also be used, subject to constraints due to road safety requirements and habitat availability.

4.3 Rehabilitation Implementation

4.3.1 Rehabilitation Zones

Rehabilitation will be undertaken in conjunction with the development of the Urban Design Plan for hard and soft landscaping treatments. Zones for rehabilitation and landscaping will be developed and planned. Generally, the following zones will apply:

1. Tonkin Highway north – retention of native bushland and revegetation with suitable Swan Coastal Plain native plant species;
2. Tonkin Highway south – retention of native bushland with landscaped revegetation in accordance with the Urban Design Plan;
3. Tonkin Highway/Kewdale Road/Horrie Miller Drive intersection – landscaped zones in medians, road edges and drainage basins, using a mix of Swan Coastal Plain and other Western Australian native plant species.

Indicative landscape plans for Areas 1 – 5 area attached in Appendix A below.

4.3.2 Treatment of Zones

Zone 1 – Bushland regeneration

- Replacement of suitable topsoil or amended soil to a depth of approximately 100 mm;
- Placement of mulch from the clearing area to a depth of approximately 70 mm;
- Possible direct seeding of native plant species collected in the Project area;
- Planting of local native plant species, including species (*Banksia*, *Allocasuarina*, *Eucalyptus*) suitable for foraging and potential breeding for Black Cockatoo species (subject to safety distance limits);
- No artificial watering.

Zone 2 – Retention of native bushland with additional landscaping

- Replacement of suitable topsoil or amended soil to a depth of approximately 140 mm;
- Placement of mulch from the clearing area to a depth of approximately 70 mm;
- Planting of local native plant species, and other Western Australian species, including species (*Banksia*, *Allocasuarina*, *Eucalyptus*) suitable for foraging and potential breeding for Black Cockatoo species;
- Some artificial watering may be provided.

Zone 3 – Landscaped areas

- Replacement of suitable topsoil or amended soil to a depth of approximately 140 mm;
- Placement of mulch from the clearing area to a depth of approximately 70 mm;
- Planting of a range of Western Australian species which suit the requirements of the area and the Urban Design Plan;
- Some artificial watering may be provided.

4.4 Success Criteria

Success criteria will vary depending upon the required outcomes for the differing zones. The following criteria will be met:

Table 1 Indicative Success Criteria

Zone	Criteria
1 – Bushland regeneration	<ol style="list-style-type: none">1. Soil erosion is controlled such that it does not impact bushland outside the Project area2. Weeds are controlled such that they do not significantly impede growth of native plant species or create an additional risk to adjacent bushland.3. Native plant density and diversity is similar to that previously occurring on the road reserve.
2 – Bushland and landscaping	<ol style="list-style-type: none">1. Soil erosion is controlled such that it does not impact bushland, parkland or public amenities outside the Project area.2. Weeds are controlled such that they do not impede native plant growth.3. Native plant density and diversity is as per the landscape/urban design plan requirements.
3 - Landscaping	<ol style="list-style-type: none">1. Soil erosion is controlled such that it does not impact bushland, parkland or public amenities outside the Project area.2. Weeds are controlled such that they do not impede plant growth and do not reduce the visual amenity of the planting.3. Plant density and diversity is as per the landscape/urban design plan requirements.

4.5 Monitoring, Maintenance and Mitigation

4.5.1 Monitoring

Monitoring of rehabilitation and landscape works will be undertaken following establishment up until the completion of the Gateway WA maintenance period (five years post practical completion). The frequency and type of monitoring in each area will depend on the type of landscaping implemented. A monitoring program for the Gateway WA Project will be developed during the construction phase.

Monitoring will be undertaken in Zones 1 and 2 focusing on the quality of the rehabilitated bushland, whilst monitoring in Zone 3 will focus on maintaining the visual amenity impact. Results will be used to determine the adequacy of the programmed maintenance works, such as weed control, and whether any changes will need to be made. In addition, this monitoring will drive the requirements for any additional plantings. Likely aspects to be monitored include:

Zones 1 and 2

- Species presence/abundance;
- Percentage vegetation cover;
- Vegetation condition/health rating;
- Evidence of excessive number of weeds;
- Evidence of erosion/compaction.

Zone 3

- Species presence/abundance as per design;
- Vegetation condition/health rating;
- Evidence of excessive number of weeds;
- Evidence of erosion/compaction.

4.5.2 Maintenance and Mitigation

Rehabilitation will be maintained for a minimum of three (3) years post-construction as per the Project contractual requirements. Maintenance will include:

- Control of erosion impacts using physical control measures and re-design of drainage outlets where required;
- Implementation of a herbicide program to mitigate any further impacts of weeds within the project boundaries;
- Undertake ongoing pest control if necessary;
- Maintain grassed recovery zone;
- Infill plant and apply additional seed as required, by the following planting season.

4.6 Rehabilitation Timing

Rehabilitation will occur as soon as practicable following completion of areas of construction. Timing of planting in Zones 1 and 2 will be partially dependent on seasonal constraints, with planting and seeding likely to occur in Autumn or early Winter. Where irrigation or watering is planned, timing of planting may be at different times of the year.

5 MANAGEMENT FRAMEWORK

5.1 Roles and Responsibilities

All personnel and contractors are responsible for the environmental performance of their activities and for complying with their general environmental duty. Furthermore, specific environmental roles have been detailed within the CEMP. The information provided below is specific to rehabilitation and landscape management and should be read as a supplement to that in the CEMP.

Main Roads Western Australia (MRWA)

MRWA will be responsible for the ongoing maintenance of the rehabilitation and landscape areas within the project areas at the completion of Gateway WA's contract (five years post practical completion).

Gateway WA

Alliance Director and Construction Manager

The Gateway WA Alliance Director will be responsible for the production of the overall design, implementation and maintenance of the rehabilitation and landscape works for the Project. The Construction Manager will be mostly responsible for the implementation of the rehabilitation and landscape works.

Environmental and Landscape Team

An appropriately qualified/experienced Project Environment Coordinator (herein referred to as Environment Coordinator) and Landscape Architect has been assigned to assist the Construction Manager and oversee the implementation of this RLMP. The relevant members of the Environmental and Landscape team will provide advice to the Supervisor to ensure ongoing compliance with the RLMP and will assist in monitoring and design of mitigation works, where necessary.

Landscaping Subcontractors

Landscaping subcontractors may include plant nurseries, chipping and mulching suppliers, seed suppliers and planting contractors. The relevant subcontractors will be required to fulfil the requirements of their contracts as agreed, and make good any breaches of contract.

All Staff

All persons associated with the project will be held accountable for compliance with their particular responsibilities under this RLMP.

5.2 Training and Awareness

Gateway WA will provide training as necessary to all personnel regarding their particular responsibilities as outlined within this RLMP. This will be conducted as detailed within the CEMP.

5.3 Control of Records

Typical record keeping and reporting procedures associated with projects include an appropriate and auditable record system. This will be maintained throughout the Project and will include rehabilitation and landscape design, as constructed and monitoring records. This will be done in line with the Gateway WA Document and Data Management Plan.

5.4 Environmental Incidents, Corrective Action and Preventative Action

Gateway WA will establish, implement and maintain an Incident and Improvement System to deal with actual and potential incidents and for taking corrective and preventive actions that arise from the Project.

The system will define requirements to:

- Identify and correct any associated non-conformity(ies) and take action(s) to mitigate their environmental impacts;
- Investigate incidents, determine their cause(s) and take action to prevent their recurrence;
- Evaluate the need for action(s) to prevent a similar incident and implement appropriate actions designed to avoid their occurrence;
- Record the results of corrective action(s) and preventive action(s) taken; and
- Review the effectiveness of corrective action(s) and preventive action(s).

5.5 Inspection and Audits

Environmental inspection and monitoring will be undertaken by Gateway WA to verify management of environmental risks and the compliance with the requirements of this RLMP. The Environmental Management Procedures in Section 7 of the CEMP incorporate an audit program to ensure that this occurs. Gateway WA will ensure this person will have the necessary competency, impartiality and objectivity in conducting these inspections. A record of these inspections will be maintained by the Alliance.

5.6 Communication

Authorities, stakeholders and communities will be consulted with on a regular basis throughout the design and construction of the Project. This will be managed as detailed within the CEMP and Stakeholder Engagement Management Plan.

SEWPac will be consulted if any changes are made to this plan which significantly change the overall intent of the final product of the Project rehabilitation and Landscape works.

6 REFERENCES

Gateway Vision (2012). Public Environment Report for the Perth Airport and Freight Access Project.

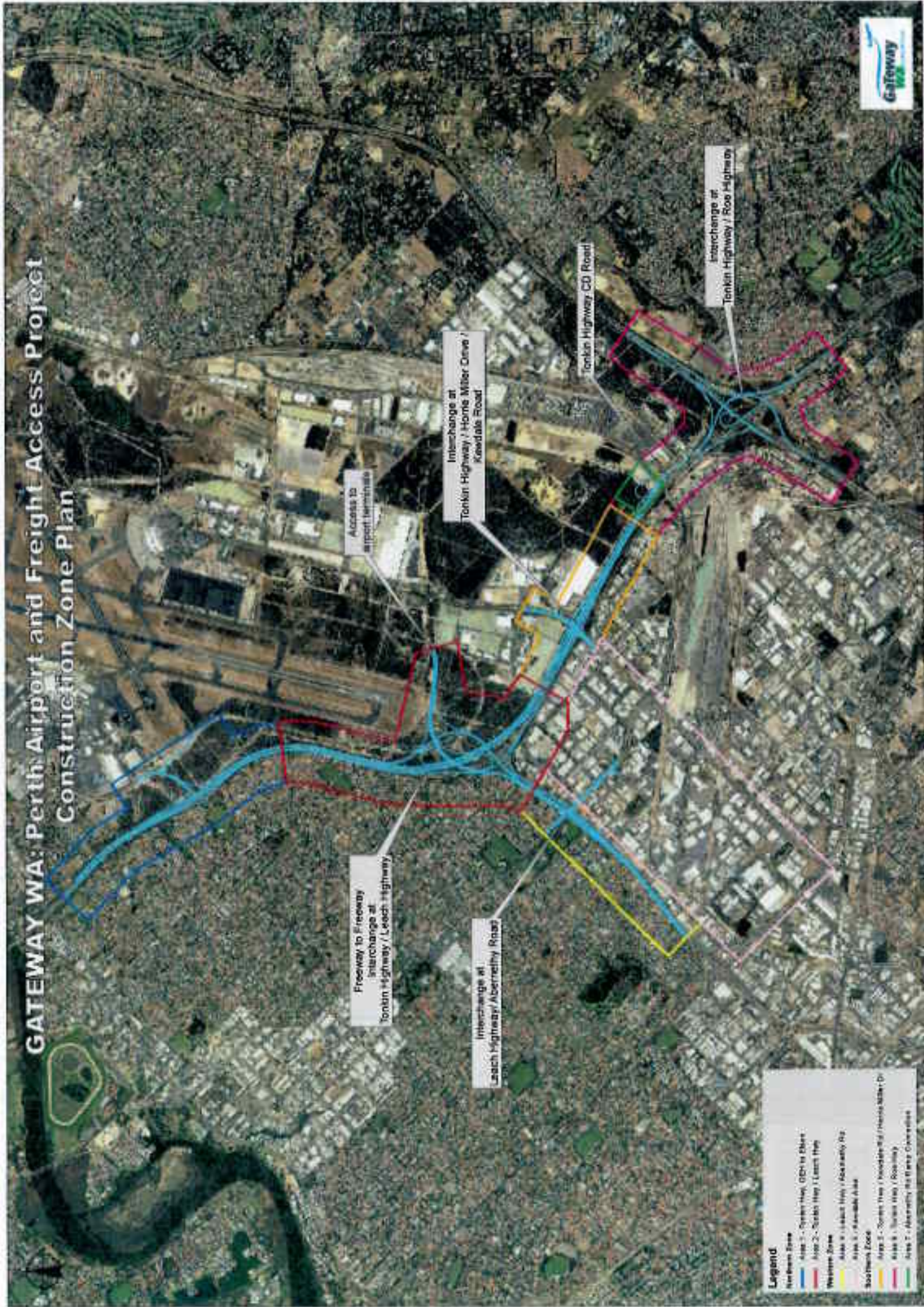
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APPENDIX A: Figures

- Construction Zone Plan
- Ecological Constraints Maps
- Existing Vegetation Type and Condition
- Representative Landscape Design Drawings

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GATEWAY WA: Perth Airport and Freight Access Project Construction Zone Plan



- Legend**
- Northern Zone
 - App 1 - Ocean Hwy, QCH to Elmer
 - App 2 - North Hwy / Leach Hwy
 - Western Zone
 - App 1 - Leach Hwy / Abernethy Rd
 - App 2 - Abernethy Rd
 - Southern Zone
 - App 1 - Ocean Hwy / Knowledge Rd / Home Miller Dr
 - App 2 - Ocean Hwy / Roadway
 - App 3 - Abernethy Rd / Home Miller Dr

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10000

10000



0



AREA 1

0 500 1000 2000

Meters

1:8,150 (A2)

LEGEND

BCC (Canadian Tree Locations)

● Present (existing) trees

Forms

— Proposed sidewalk

□ Location of proposed sidewalk

BCC Development Walkways

□ Sidewalk

□ Access to (recreation)

□ City Work (existing) opening (A/B/C)

□ Open Land

□ Work Area (Open Area)

Environmental Constraints in Work Areas

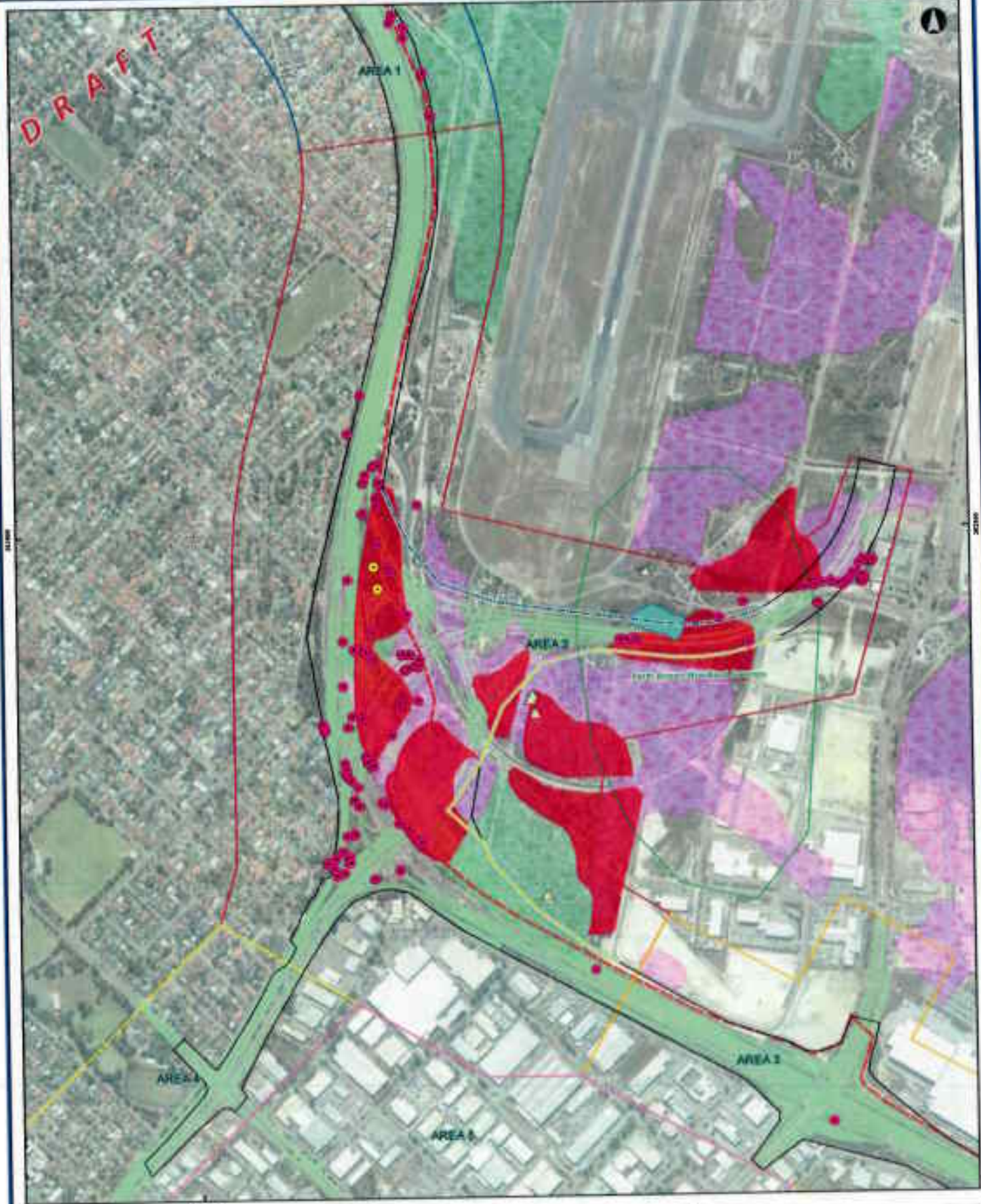
WORK AREA 1



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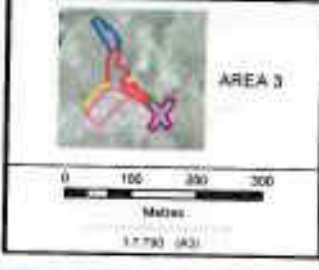
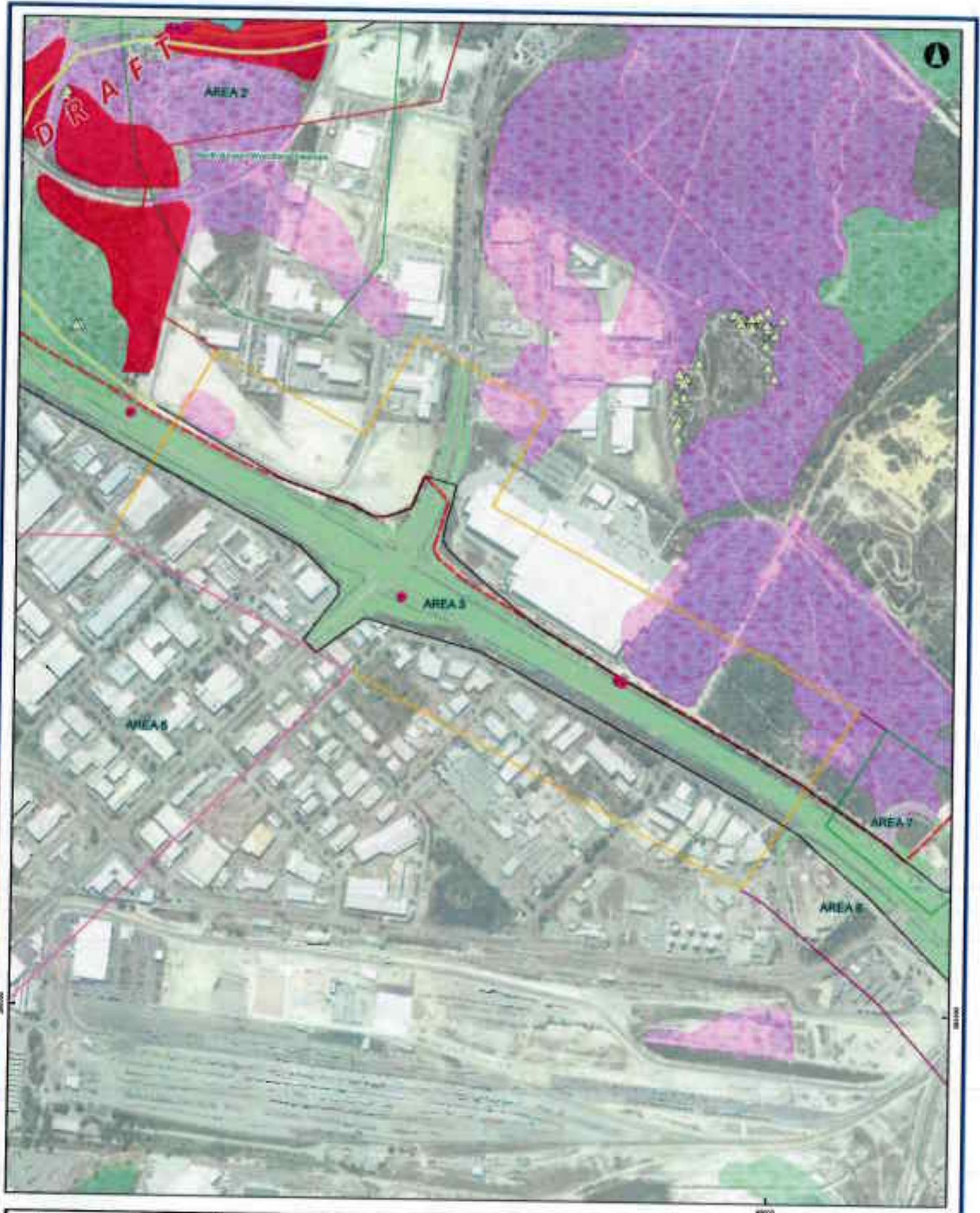
LEGEND

<p>With Invasive Tree Limitations</p> <ul style="list-style-type: none"> ● Invasive tree limit ● Invasive tree limit ▲ Invasive tree limit 	<p>Water</p> <ul style="list-style-type: none"> ■ Flood Plain ■ Flood Hazard ■ Channel Channel ■ Channel of Impaired Waters ■ Riparian Forest 	<p>2015 Designated Wetlands</p> <ul style="list-style-type: none"> ■ Wetland ■ Wetland of Critical Importance ■ Wetland of Critical Importance ○ Wetland of Critical Importance ○ Wetland of Critical Importance
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Environmental Constraints in Work Areas
WORK AREA 2



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LEGEND

Work Area and Tree Locations	Fences	EEC Mitigation Buffers
● Wetland tree location	▭ Fencing	▭ Wetland
▲ Wetland tree location	▭ Property boundary	▭ Wetland buffer
	▭ Property boundary	▭ Wetland buffer
		▭ Wetland buffer

Environmental Constraints in Work Areas
WORK AREA 3



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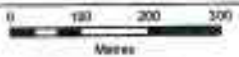
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AREA 4



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LEGEND

- 0401 Cook County Tree Locations
 Intentional Logging Sites
- 0601 Environmental Wetlands
 Wetlands
- 0602 Areas with Possible Existing Wetlands
 Potential Wetlands
- 0603 Airport Land
 Airport Land
- 0604 Maximum Project Footprint
 Maximum Project Footprint

Environmental Constraints in Work Areas

WORK AREA 4



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AREA 5

0 120 240 360

Meters

1:10,000 (N.T.S.)

LEGEND

- Work Area Boundary
- ▲ Work Area Boundary

- ▭ Parks
- ▭ Waterways
- ▭ Streets of Interest Network
- ▭ Railway Station

- ▭ BCC Greenery Database
- ▭ Conservation
- ▭ Resource Code Network
- ▭ Site Specific/Other Planning Database
- ▭ Airport Lane
- ▭ Work Area Boundary

Environmental Constraints in Work Areas
WORK AREA 5



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LEGEND:

BEV Design Tool Location: Wetland boundaries	BEV Treatment & Control Constraints Boundary	BEV Wetland's Wetland: Contamination
Disposal or processing	Wetland Ecological Constraints	Wetland Eutrophication
		Low Water Condition Sensing Wetland
		Airport Lane
		Wetland's Outer Area

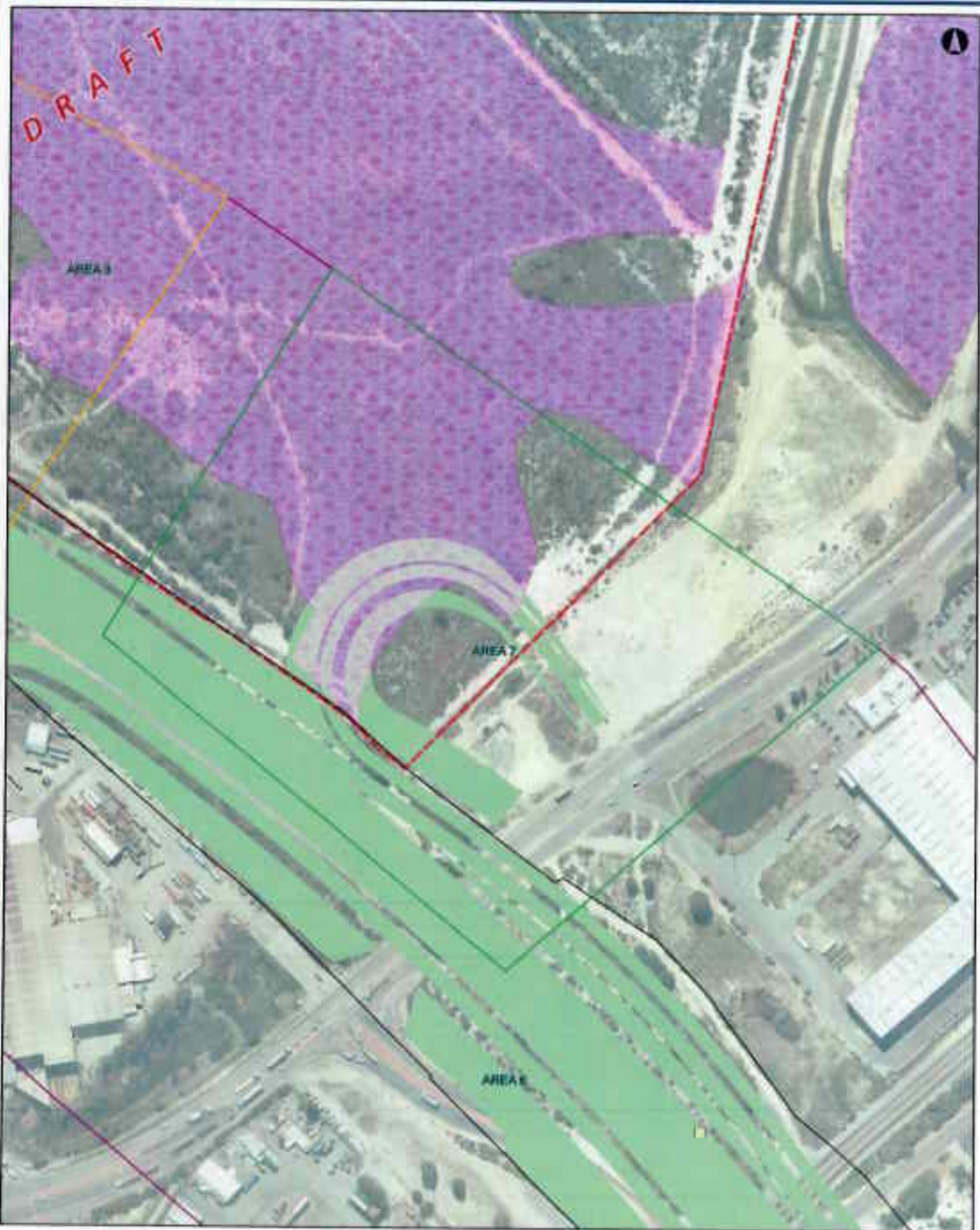
Environmental Constraints in Work Area
WORK AREA 6



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AREA 7



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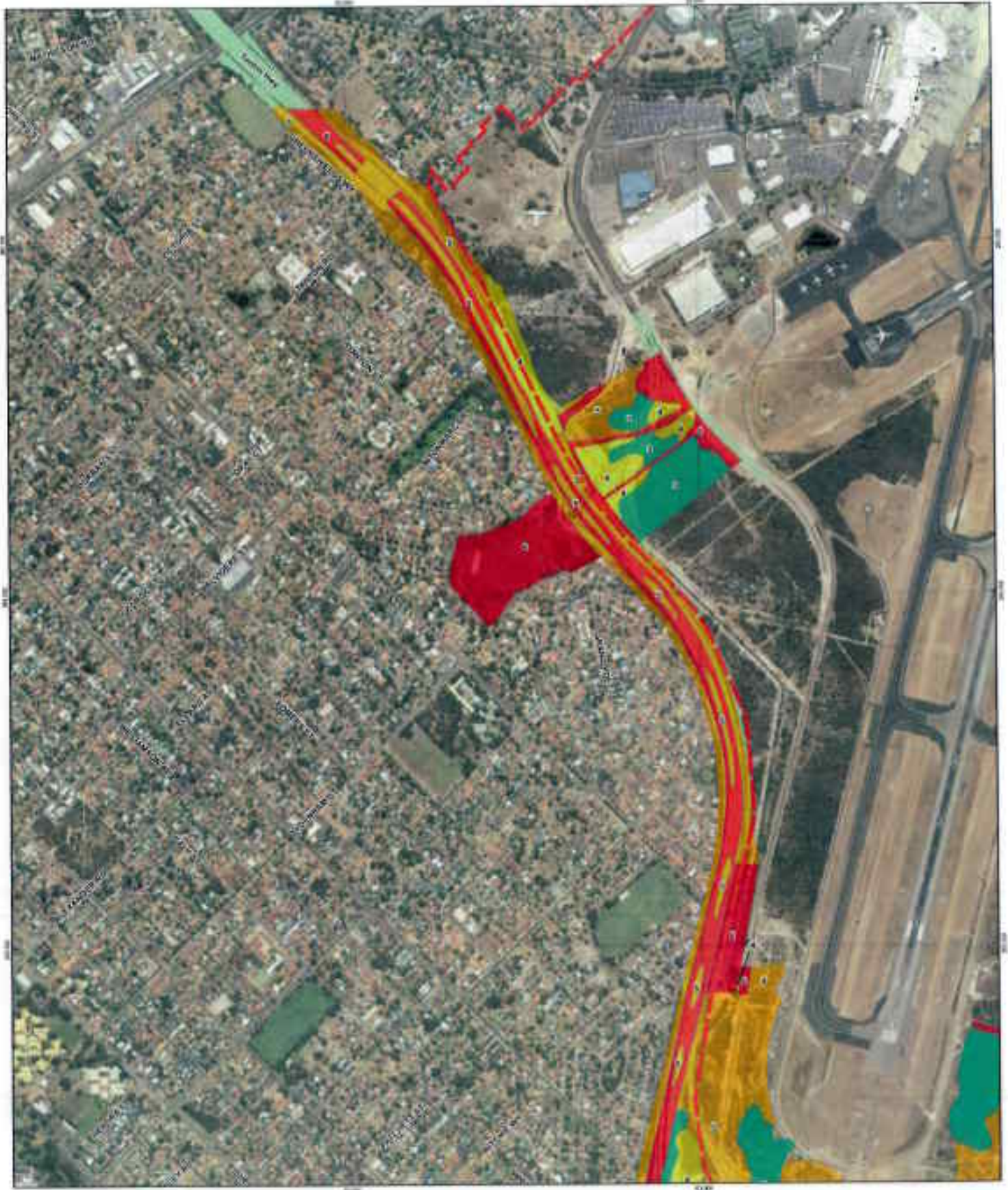
LEGEND

- Environmental Constraints
- Wetlands
- Floodplains
- Easements
- Wetlands
- Floodplains
- Easements

Environmental Constraints in Work Areas
WORK AREA 7



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LEGEND

Vegetation Condition

- 1 - Best
- 2 - Excellent
- 3 - Very Good

- 4 - Good
- 5 - Degraded
- 6 - Completely Degraded

- Asphalt - Commonwealth Government Land
- Preferred Road Option

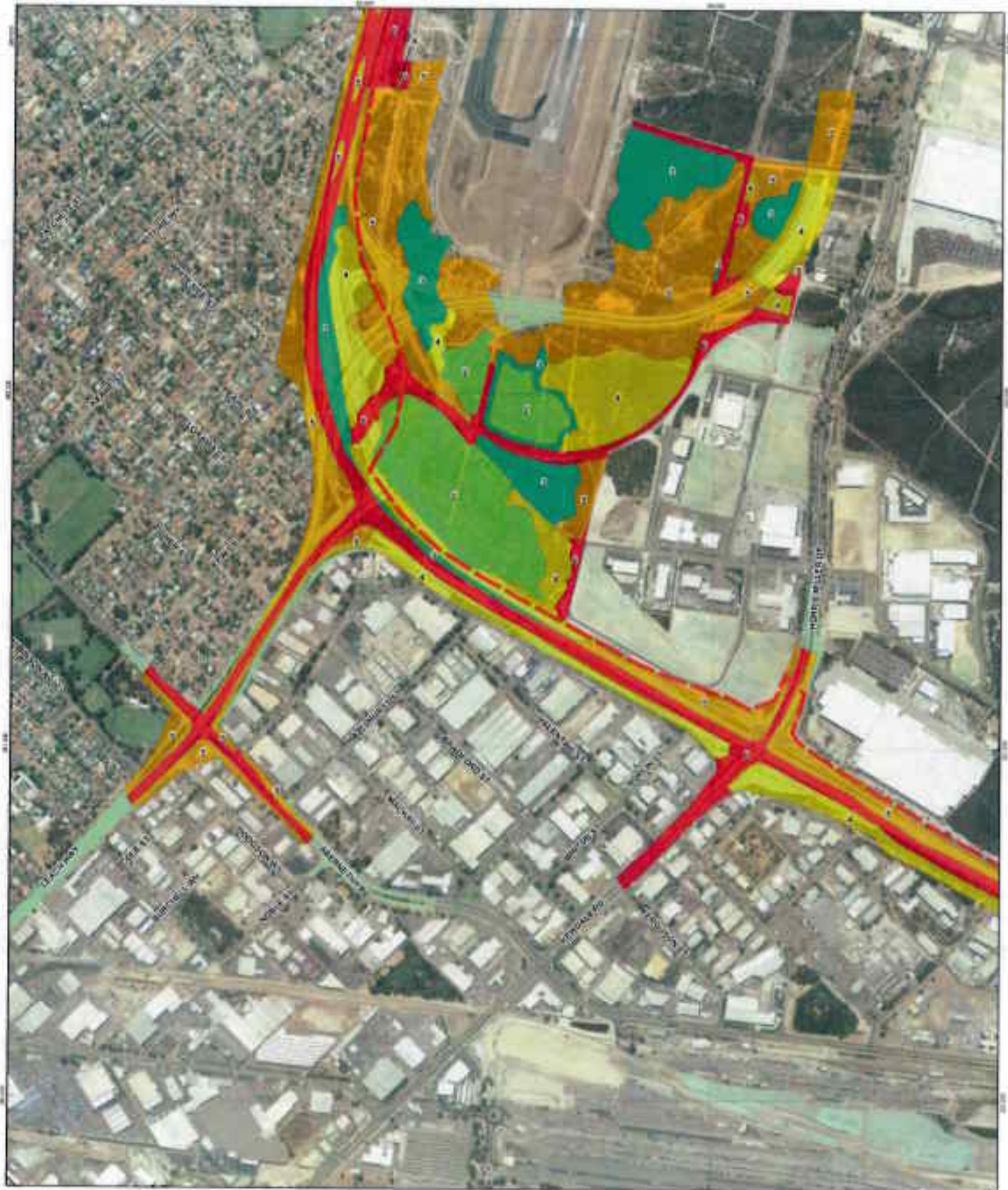


Gateway WA
Perth Airport and Freight Access Project

Job Number: 61-2987634
Revision: 0
Date: 09 Dec 2011



Vegetation Condition



LEGEND

Vegetation Condition	4 - Good	Appeal - Commonwealth Government Land
1 - Presence of nearby wet	5 - Degraded	Preferred Road Option
2 - Excellent	6 - Completely Degraded	
3 - Very Good		

1:10,000 (NAD83)

Map Projection: Transverse Mercator
National Datum: Geocentric Datum of Australia
Grid: Perth UTM/Zone 50E (PGCRS)



Gateway WA
Perth Airport and Freight Access Project

Job Number	01 2587034
Revision	0
Date	09 Dec 2011

Vegetation Condition

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LEGEND

<p>DIC Records Significant Flora</p> <ul style="list-style-type: none"> ▲ Priority 1 - Priority 1 Flora Taxa ▲ Priority 2 - Priority 2 Flora Taxa ▲ Priority 3 - Priority 3 Flora Taxa ▲ Priority 4 - Flora Taxa 	<p>GND - Declared Rare Plant</p> <ul style="list-style-type: none"> ◆ Conservation significance ◆ Manicured landscape ◆ Grassland 	<p>Agpsd - Commonwealth Government Land</p> <ul style="list-style-type: none"> ◆ Protected Road Corridor 	<p>GND Vegetation Type</p> <ul style="list-style-type: none"> V1 V2 V3a V3b V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21 V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37 V38 V39 V40 V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55 V56 V57 V58 V59 V60 V61 V62 V63 V64 V65 V66 V67 V68 V69 V70 V71 V72 V73 V74 V75 V76 V77 V78 V79 V80 V81 V82 V83 V84 V85 V86 V87 V88 V89 V90 V91 V92 V93 V94 V95 V96 V97 V98 V99 V100 	<p>Native Vegetation Type</p> <ul style="list-style-type: none"> N1 N2 N3 N4 N5 N6 N7 N8 N9 N10 N11 N12 N13 N14 N15 N16 N17 N18 N19 N20 N21 N22 N23 N24 N25 N26 N27 N28 N29 N30 N31 N32 N33 N34 N35 N36 N37 N38 N39 N40 N41 N42 N43 N44 N45 N46 N47 N48 N49 N50 N51 N52 N53 N54 N55 N56 N57 N58 N59 N60 N61 N62 N63 N64 N65 N66 N67 N68 N69 N70 N71 N72 N73 N74 N75 N76 N77 N78 N79 N80 N81 N82 N83 N84 N85 N86 N87 N88 N89 N90 N91 N92 N93 N94 N95 N96 N97 N98 N99 N100 	<p>Other Vegetation Type</p> <ul style="list-style-type: none"> D - Disturbed Areas CO - Open Areas
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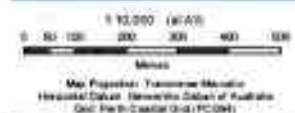
▲ Significant flora records marked on map

<p>Scale: 1:10,000 (at A3)</p> <p>0 50 100 200 300 400 500</p> <p>Meters</p>			<p>Gateway WA Perth Airport and Freight Access Project</p> <p>Vegetation Types and Significant Flora records</p>	<p>Job Number: E1-2587034 Revision: 0 Date: 08 Dec 2011</p>
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LEGEND

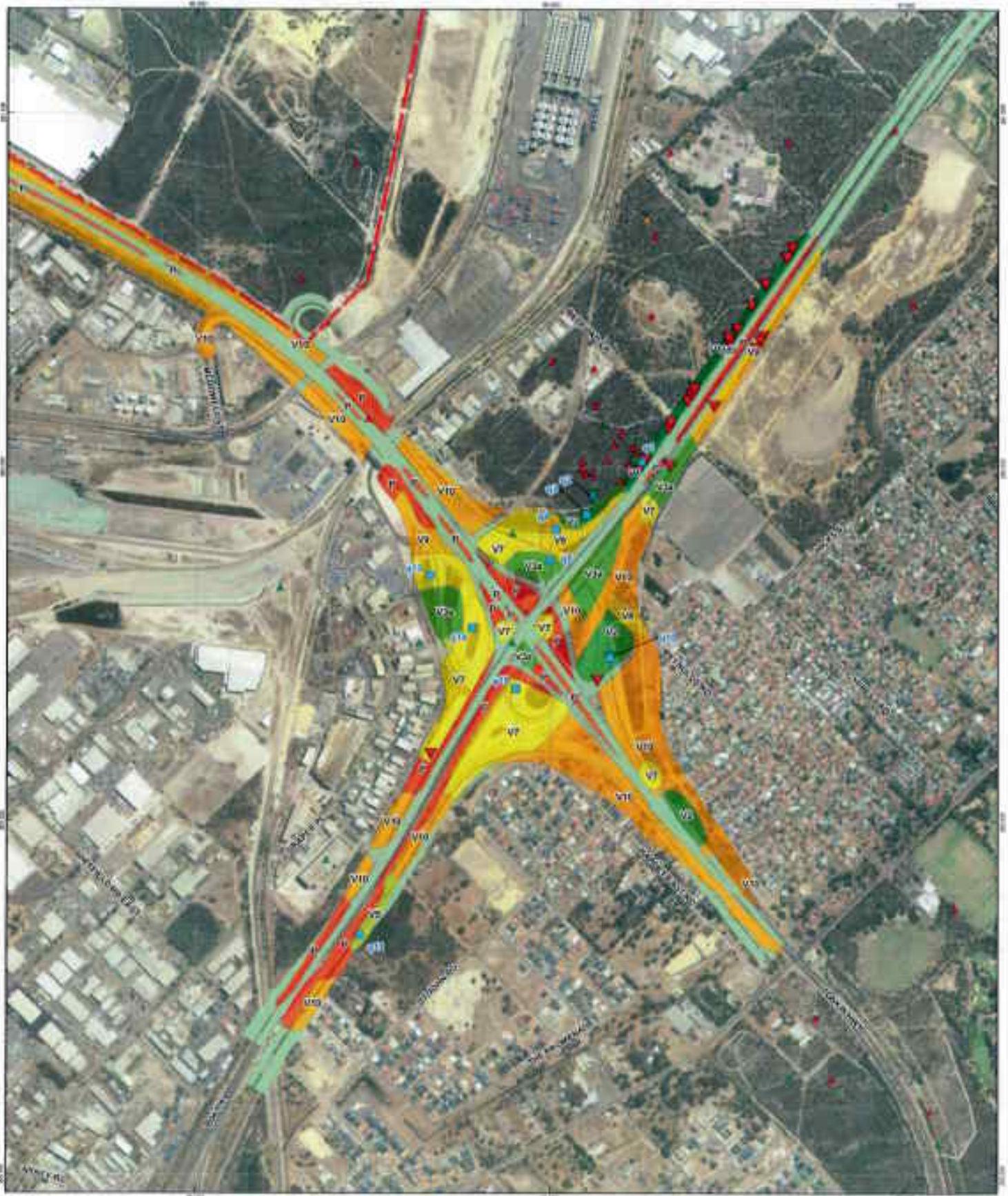
<p>REC Records Significant Flora</p> <ul style="list-style-type: none"> ▲ (R1) Declared Rare Flora - Exact Taxa ▲ Priority 1 - Priority Known Taxa ▲ Priority 2 - Priority Known Taxa ▲ Priority 3 - Rare Taxa 	<p>DRD - Declared Rare Plant</p> <ul style="list-style-type: none"> ▼ Conservation area/estate ▼ Macquarie Highway ■ Quailsh 	<p>Align - Construction/Overseas Land</p> <ul style="list-style-type: none"> ■ Planned Road Option 	<p>DRD Vegetation Type</p> <table border="0"> <tr> <td>V1</td> <td>V4</td> <td>V8</td> <td>V12</td> </tr> <tr> <td>V2</td> <td>V5</td> <td>V9</td> <td>P</td> </tr> <tr> <td>V3a</td> <td>V6</td> <td>V10</td> <td></td> </tr> <tr> <td>V3b</td> <td>V7</td> <td>V11</td> <td></td> </tr> </table>	V1	V4	V8	V12	V2	V5	V9	P	V3a	V6	V10		V3b	V7	V11		<p>Native Vegetation Type</p> <table border="0"> <tr> <td>V1</td> <td>E2</td> <td>S - Shrubbed Areas</td> </tr> <tr> <td>J1</td> <td>E3</td> <td>OW - Open Water</td> </tr> <tr> <td>K1</td> <td>E4</td> <td></td> </tr> </table> <p><small>NS - Significant and highly modified corridors</small></p>	V1	E2	S - Shrubbed Areas	J1	E3	OW - Open Water	K1	E4		<p>DRD - Declared Rare Plant</p> <ul style="list-style-type: none"> ■ Conservation area/estate ■ Macquarie Highway ■ Quailsh
V1	V4	V8	V12																											
V2	V5	V9	P																											
V3a	V6	V10																												
V3b	V7	V11																												
V1	E2	S - Shrubbed Areas																												
J1	E3	OW - Open Water																												
K1	E4																													



Gateway WA
Parth Airport and Freight Access Project
**Vegetation Types and
Significant Flora records**

Job Number: 01-2567034
Revision: 5
Date: 09 Dec 2015
Page 2 of 3
Figure 6

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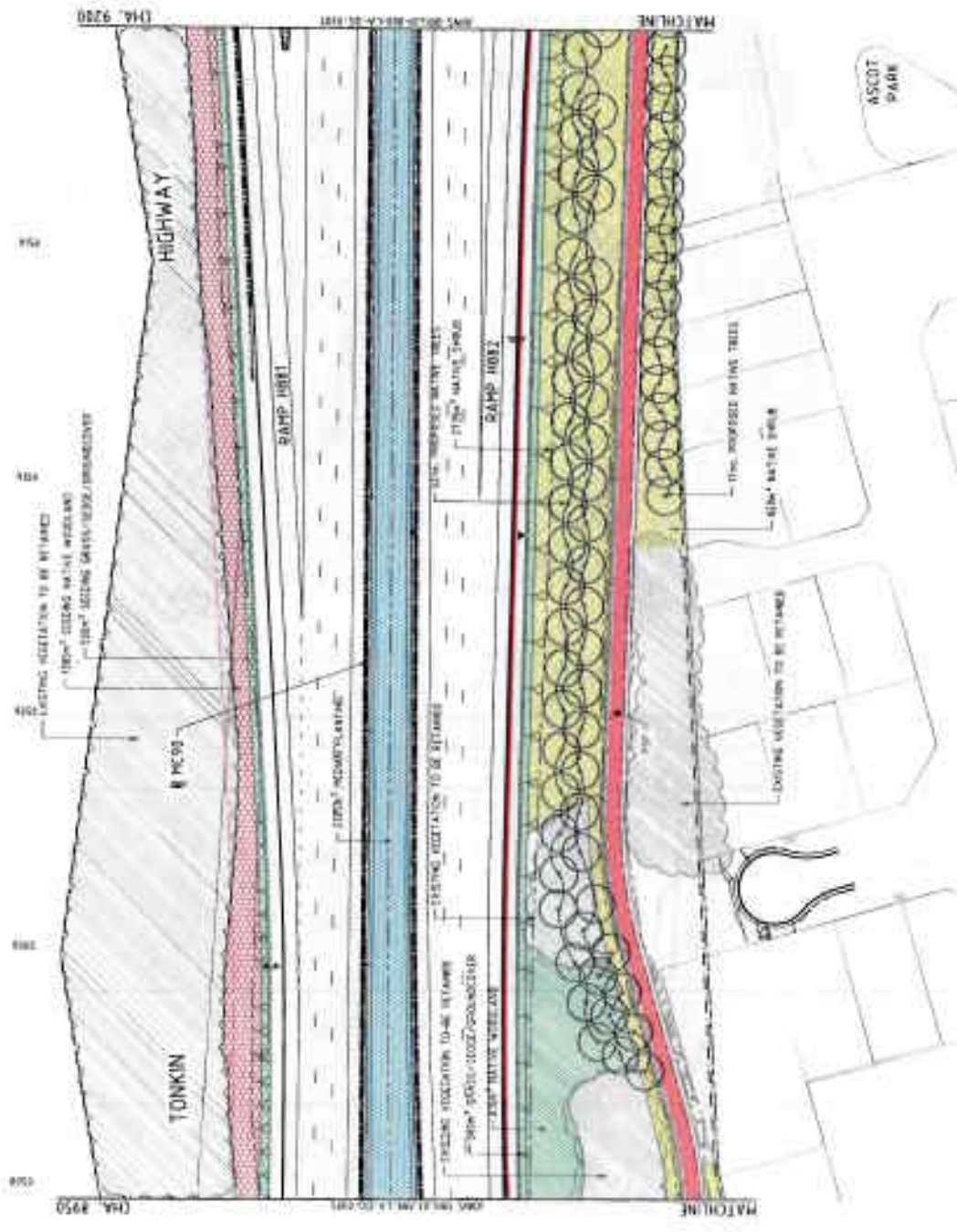


LEGEND

<p>DCE Records Significant Flora</p> <ul style="list-style-type: none"> ▲ R1 Declared Rare Flora - Critical Taxa ▲ Priority 1 - Priority Known Taxa ▲ Priority 2 - Priority Known Taxa ▲ Priority 4 - Rare Taxa 	<p>DCE - Declared Rare Plant</p> <ul style="list-style-type: none"> ▼ Conspicuous and/or Rare ▼ Photo/Video Evidence ▼ Evidence 	<p>Asset: Government Land</p> <ul style="list-style-type: none"> ■ Preferred Road Option 	<p>DCE Vegetation Type</p> <ul style="list-style-type: none"> V1 V2 V3a V3b V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 	<p>Native Vegetation Type</p> <ul style="list-style-type: none"> H1 J1 K1 L1 M1 N1 O1 P Q1 R1 S1 T1 U1 V1 W1 X1 Y1 Z1 	<ul style="list-style-type: none"> D - Disturbed Areas OW - Open Water <p><small>© Copyright and/or legally owned information</small></p>
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<p>1:50,000 (at A3)</p> <p>0 50 100 200 300 400 500 Metres</p> <p>Map Projection: Transverse Mercator Horizontal Datum: Geocentric Datum of Australia Grid: Park Creeks Grid (PC08)</p>			<p>Gateway WA Perth Airport and Freight Access Project</p> <p>Vegetation Types and Significant Flora records</p>	<p>Job Number: 61-2587634 Revision: 0 Date: 09 Dec 2011</p>	<p>Page 3 of 3 Figure 6</p>
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LEGEND

- SITE BOUNDARY
- EXISTING TRENCH
- 100M WIDE FENCE
- 30M WIDE RED ASPHALT FYP
- 20M WIDE CONCRETE SLOPED PATH
- BRICK FENCING
- REPURPOSED NATIVE TREES
- REPURPOSED SPECIEN TREES
- EXISTING TREES TO BE RETAINED
- COARSESS (ALL SHADES)
- 60% BRASS
- PLANTING PLANNING
- MEIUM PLANTING
- MULTI-LAYER PLANTING
- NATIVE DAMPING PLANTING
- NATIVE WOODLAND PLANTING
- GRASS / HERB / SUBSTRATIVES
- SIDING (H) - NATIVE GRASS
- SIDING (H) - NATIVE DAMPLAND
- SIDING (H) - NATIVE WOODLAND
- SIDING (H) - GRASS / HERB / SUBSTRATIVES
- 10M
- 10M FENCE
- RETAINING WALL WITH WOOD WALL
- RETAINING WALL WITH UNFINISHED TRAFFIC BARBERS
- TRAFFIC BARBERS
- CONCRETE SLOPED FENCING
- REPURPOSED OVERSEAN BARBERS
- W-SEAM BARBER

NOTES

- FOR THE GENERAL NOTE REFER TO SHEET 01-080-0300
- SEE GENERAL NOTE REFER TO SHEET 01-080-0300
- SEE GENERAL NOTE REFER TO SHEET 01-080-0300
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- SEE GENERAL NOTE REFER TO SHEET 01-080-0300

SQUAD CHECK

NO.	NAME	DATE	REMARKS

REVISIONS

NO.	DATE	DESCRIPTION
1	20/06/2023	ISSUED FOR PERMIT
2	01/07/2023	REVISED FOR COMMENTS
3	15/07/2023	FINAL APPROVAL

PROJECT INFORMATION

PROJECT NO: 01-080-LA-DG-0306

CLIENT: GATEWAY WA

LOCATION: GATEWAY WA

DRAWN BY: [Name]

CHECKED BY: [Name]

DATE: 20/06/2023

SCALE

1:1

DATE PLOTTED: 20/06/2023 14:30

DATE 20/06/2023 14:30

SCALE 1:1

PROJECT NO 01-080-LA-DG-0306

DATE	20/06/2023 14:30
SCALE	1:1
PROJECT NO	01-080-LA-DG-0306

DATE 20/06/2023 14:30

SCALE 1:1

PROJECT NO 01-080-LA-DG-0306

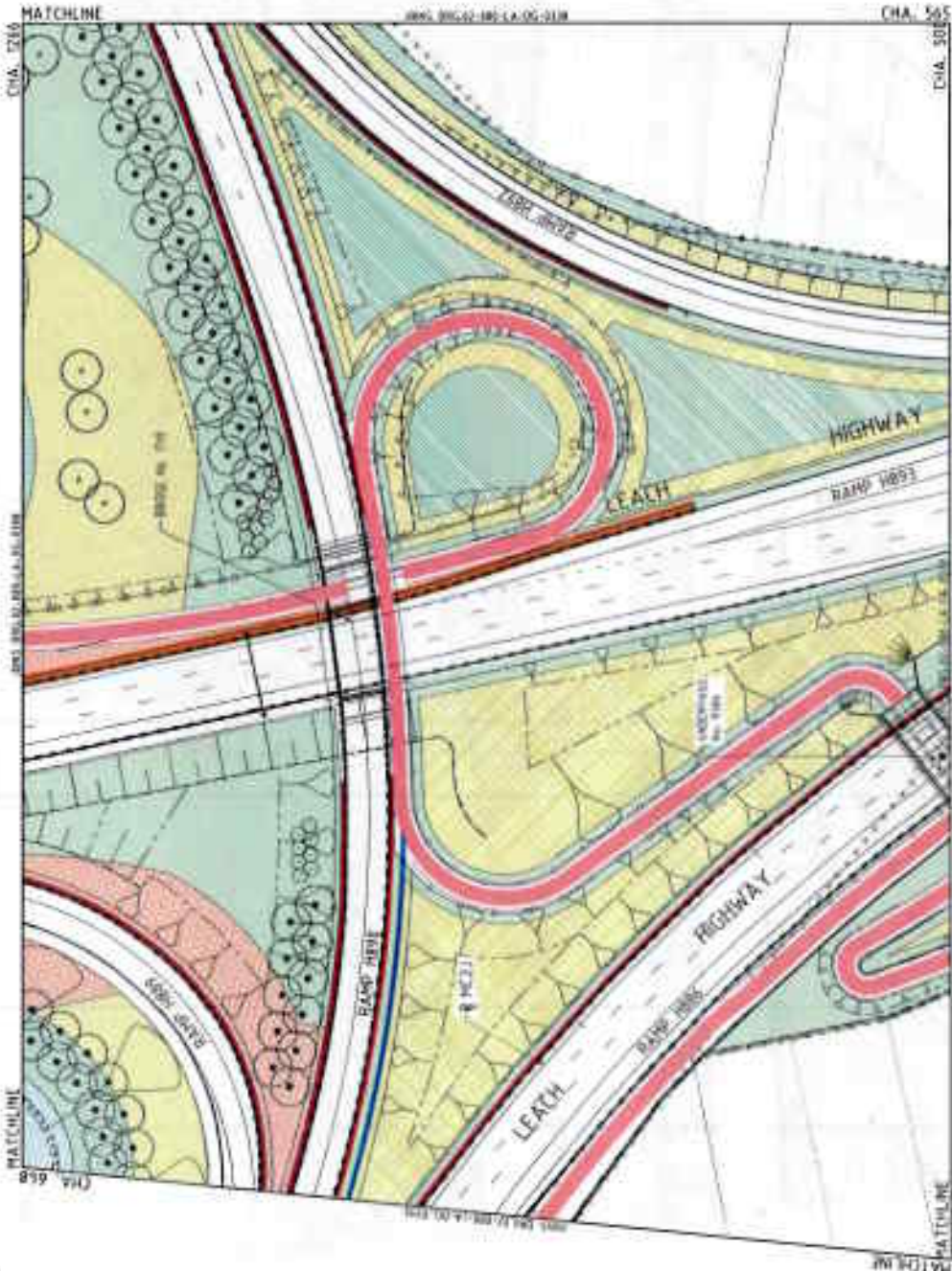
DATE: 01/15/2019 10:00 AM

LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- FENCE AND FENCE
- 30" WIDE RED ASPHALT PAV
- 24" WIDE ASPHALT DRIVE PATH
- SOFT PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL BUSHES
- RED GRAVEL
- PLANTER PLANTING
- MEDIAN PLANTING
- NATIVE GRASS
- NATIVE GRASSLAND
- NATIVE WOODLAND
- GRASS / SOFT / UNDISTURBED
- SEEDING MIX - NATIVE GRASS
- SEEDING MIX - NATIVE GRASSLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SOFT / UNDISTURBED
- TURF
- CLEAR ZONE
- SHARED TRAILWAY BOUNDARY
- BARRIERS REFER TO DETAILS
- RETAINING WALL
- RETAINING WALL WITH POST WALL
- RETAINING WALL WITH BALLAST/RAILROAD
- TYPICAL GARDEN
- INSTANT BLUE BARBER
- PEPPER HONEYDEW BARBER
- H-CLAM BARBER
- BLUE HONEYDEW

NOTES

1. FOR CIVIL ENGINEER, REFER WITH THIS SET.
2. SEE LANDSCAPE GENERAL NOTES SHEET 0000000000.
3. SEE LANDSCAPE GENERAL NOTES SHEET 0000000000.
4. SEE PLANT AND TREE NOTES REFER TO THE SCHEDULE ON DRAWING 0000000000.
5. LANDSCAPE VEGETATION AND PLANTING NOTES TO BE FURNISHED TO THE ARCHITECT WITH MAIN GROUND TECHNICAL STANDARDS WITH MAIN GROUND TECHNICAL STANDARDS WITH MAIN GROUND TECHNICAL STANDARDS.
6. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL UTILITIES AND BELOW GRADE UTILITIES AND UTILITIES LOCATIONS.
7. PLANTING AREAS NOT SHOWN ARE FOR OFFICE USE ONLY. THESE ARE NOT TO BE CONSIDERED.



PROJECT NO.	02-080-LA-DG-0337
DATE	01/15/2019
SCALE	AS SHOWN
PROJECT NAME	02-080-LA-DG-0337
PROJECT LOCATION	02-080-LA-DG-0337
PROJECT NUMBER	02-080-LA-DG-0337
PROJECT SHEET NUMBER	02-080-LA-DG-0337
PROJECT SHEET TOTAL	02-080-LA-DG-0337

DATE	01/15/2019
BY	02-080-LA-DG-0337
CHECKED	02-080-LA-DG-0337
DATE	02/01/2019
BY	02-080-LA-DG-0337
CHECKED	02-080-LA-DG-0337
DATE	02/01/2019
BY	02-080-LA-DG-0337
CHECKED	02-080-LA-DG-0337
DATE	02/01/2019
BY	02-080-LA-DG-0337
CHECKED	02-080-LA-DG-0337
DATE	02/01/2019
BY	02-080-LA-DG-0337

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	01/15/2019
2	ISSUED FOR CONSTRUCTION	02/01/2019
3	ISSUED FOR AS-BUILT	02/01/2019
4	ISSUED FOR FINAL	02/01/2019

DATE	01/15/2019
BY	02-080-LA-DG-0337
CHECKED	02-080-LA-DG-0337
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BY	02-080-LA-DG-0337
CHECKED	02-080-LA-DG-0337
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DATE	02/01/2019
BY	02-080-LA-DG-0337
CHECKED	02-080-LA-DG-0337
DATE	02/01/2019
BY	02-080-LA-DG-0337

LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- DRAINAGE FENCE
- 1/4" WIDE ASPHALT RAMP
- 1/4" WIDE CONCRETE CHURCH RAMP
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIES TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED ALL BUSHES
- 8" GRAVEL
- FEATURE PLANTING
- REGULAR PLANTING
- NATIVE SHRUB
- NATIVE SHRUB-LIKE
- NATIVE WOODLAND
- GRASS / SOIL / PROPOSED
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE SHRUB-LIKE
- SEEDING MIX - GRASS / SOIL / PROPOSED
- TOP
- CLEAR ZONE
- SURFACE TREATMENT BEING MARKERS (WATER TO DETAIL)
- RETAINING WALL
- REED WALL
- RETAINING WALL WITH NEW WALL
- RETAINING WALL WITH SLOTTED
- TRAFFIC BARRIER
- CONSTANT SLOPE BARBER
- PROPOSED TERRAZZO BARBER
- 1/4" WIDE ASPHALT RAMP
- 1/4" WIDE CONCRETE CHURCH RAMP

- NOTES:**
1. FOR CIVIL GENERAL NOTES REFER TO DWG. 03-080-0303.
 2. FOR LANDSCAPE GENERAL NOTES REFER TO DWG. 03-080-0303.
 3. ALL PLANTING SHALL BE REFERRED TO THE LANDSCAPE GENERAL NOTES SHEET.
 4. LANDSCAPE GENERAL NOTES SHEET SHALL BE CONSULTED FOR ALL PLANTING NOTES TO BE CONSULTED IN ALL PLANTING WORK SHALL COME TECHNICAL STANDARDS AND SPECIFICATION JIN.
 5. REFER TO EXISTING PLANNING FOR LOCATIONS OF ALL ABOVE AND WITH LANDSCAPE SERVICES AND UTILITIES LOCATIONS.
 6. PLANTING AREAS WILL SHOW ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE NOTICED.



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PROJECT: 03-080-LA-DG-0303

SCALE: 1" = 10'-0"

DATE: 03-08-2013 10:58:10 AM

PROJECT: 03-080-LA-DG-0303

SCALE: 1" = 10'-0"

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9	03-08-2013	ISSUED FOR PERMITTING
10	03-08-2013	ISSUED FOR PERMITTING

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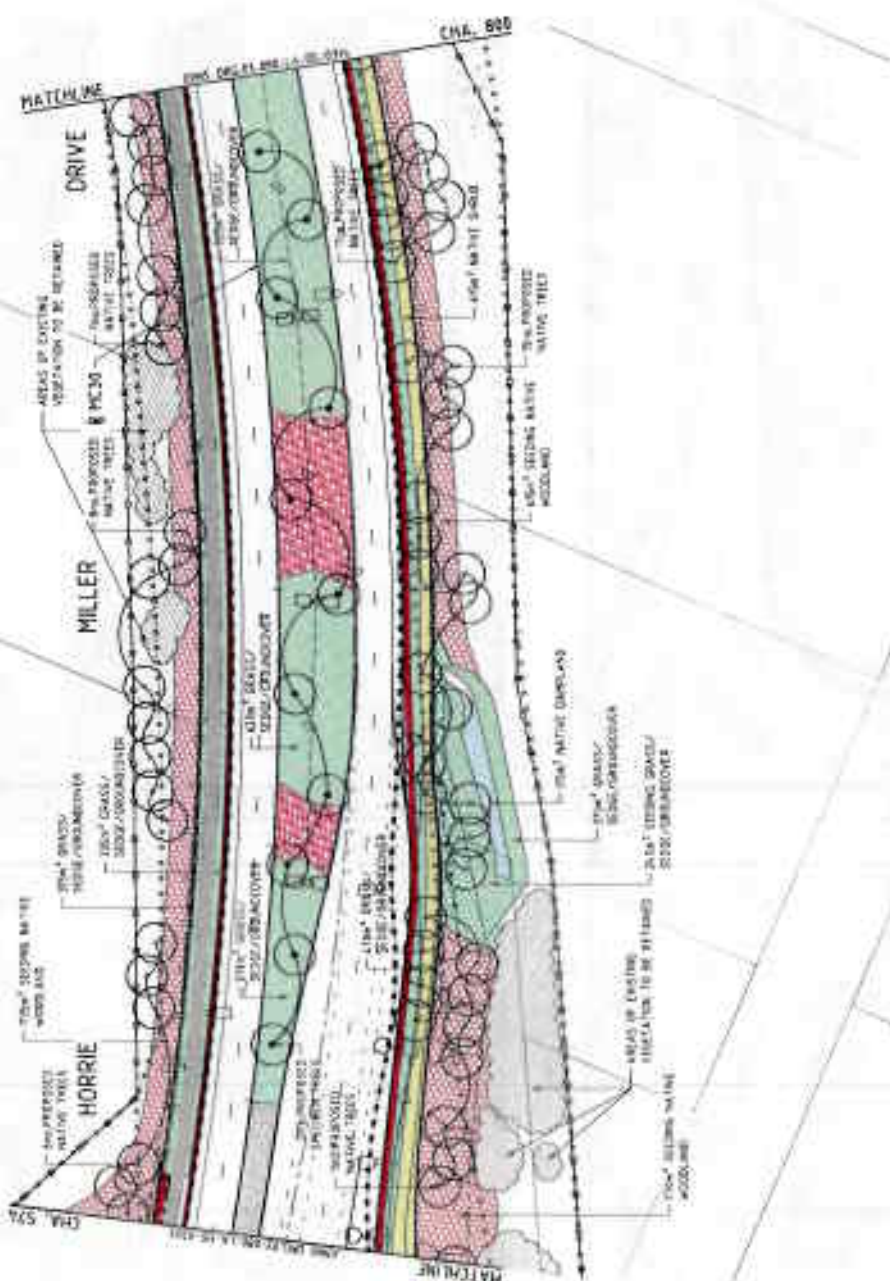
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10	03-08-2013	ISSUED FOR PERMITTING

LEGEND

- 10% SLOPE
- 5% SLOPE
- 2% SLOPE
- 1% SLOPE
- 0% SLOPE
- 1% SLOPE
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- 960% SLOPE
- 965% SLOPE
- 970% SLOPE
- 975% SLOPE
- 980% SLOPE
- 985% SLOPE
- 990% SLOPE
- 995% SLOPE
- 1000% SLOPE



NOTES

1. FOR CIVIL ENGINEER, NOTES REFER TO THE SPECIFICATIONS.
2. FOR LANDSCAPE ARCHITECT, NOTES REFER TO THE SPECIFICATIONS.
3. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
4. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
5. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
6. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
7. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
8. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
9. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
10. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.

PROJECT	03-080-LA-00-0313
DATE	03-08-2013
SCALE	AS SHOWN
DRAWN BY	
CHECKED BY	
APPROVED BY	

NO.	DATE	DESCRIPTION
1	03-08-2013	ISSUED FOR TENDER
2	03-08-2013	ISSUED FOR TENDER
3	03-08-2013	ISSUED FOR TENDER
4	03-08-2013	ISSUED FOR TENDER
5	03-08-2013	ISSUED FOR TENDER
6	03-08-2013	ISSUED FOR TENDER
7	03-08-2013	ISSUED FOR TENDER
8	03-08-2013	ISSUED FOR TENDER
9	03-08-2013	ISSUED FOR TENDER
10	03-08-2013	ISSUED FOR TENDER

NO.	DATE	DESCRIPTION
1	03-08-2013	ISSUED FOR TENDER
2	03-08-2013	ISSUED FOR TENDER
3	03-08-2013	ISSUED FOR TENDER
4	03-08-2013	ISSUED FOR TENDER
5	03-08-2013	ISSUED FOR TENDER
6	03-08-2013	ISSUED FOR TENDER
7	03-08-2013	ISSUED FOR TENDER
8	03-08-2013	ISSUED FOR TENDER
9	03-08-2013	ISSUED FOR TENDER
10	03-08-2013	ISSUED FOR TENDER

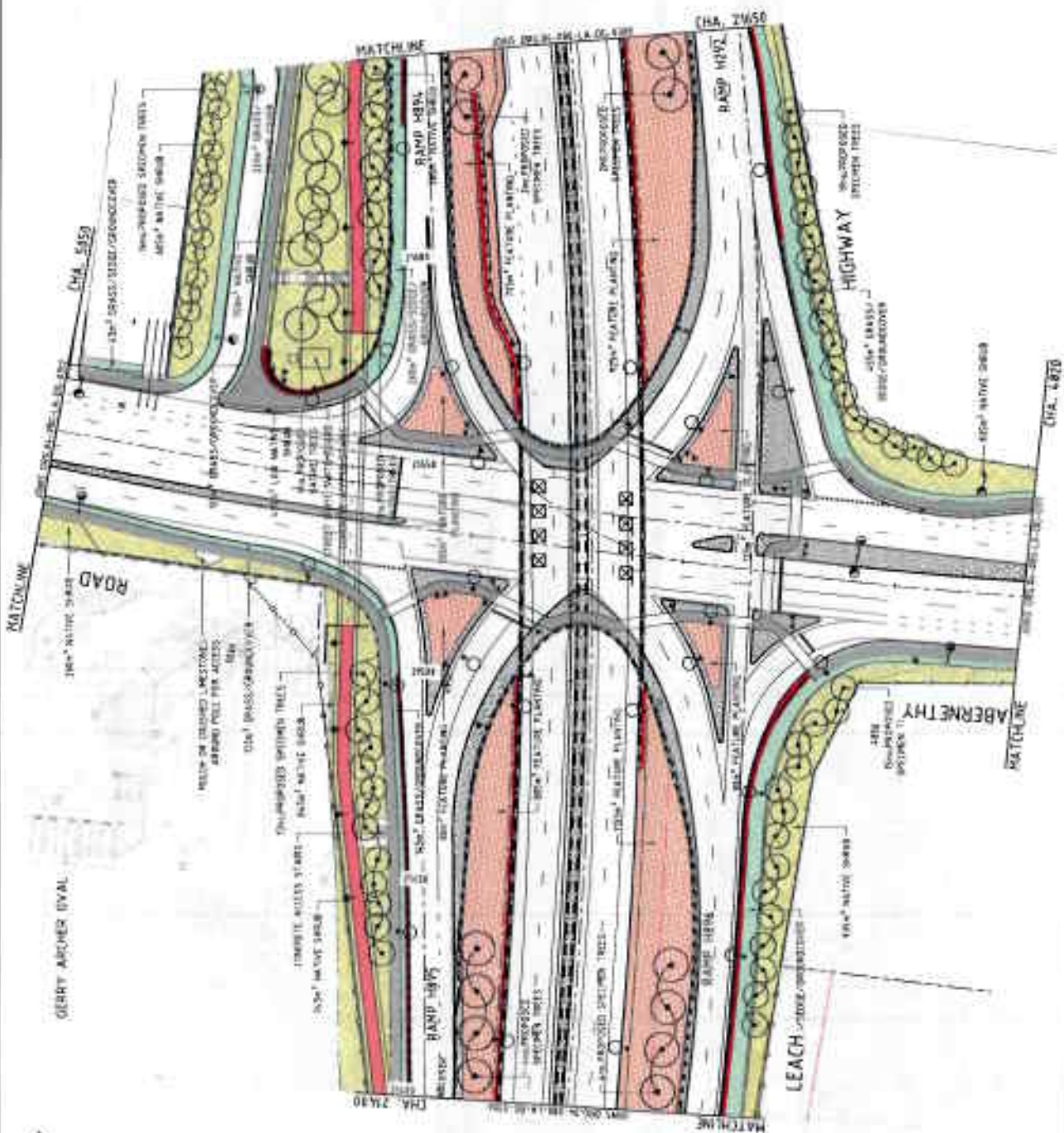
NO.	DATE	DESCRIPTION
1	03-08-2013	ISSUED FOR TENDER
2	03-08-2013	ISSUED FOR TENDER
3	03-08-2013	ISSUED FOR TENDER
4	03-08-2013	ISSUED FOR TENDER
5	03-08-2013	ISSUED FOR TENDER
6	03-08-2013	ISSUED FOR TENDER
7	03-08-2013	ISSUED FOR TENDER
8	03-08-2013	ISSUED FOR TENDER
9	03-08-2013	ISSUED FOR TENDER
10	03-08-2013	ISSUED FOR TENDER

LEGEND

- 100' BOUNDARY
- EXISTING FINISH
- 2000' WET FENCE
- 1.5M WIDE CONCRETIZED SHOULDERS WITH BRICK PAVING
- IMPROVED NATIVE TREES
- IMPROVED SPECIEN TREES
- EXISTING TREES TO BE RETAINED
- IMPROVED TALL TREES
- ICE GRAVEL
- FEATURE PLANTING
- RETAIN PAVING
- NATIVE SHRUB
- NATIVE HERBACEOUS
- NATIVE WOODLAND
- GRASS / EDGE / PLANTATION
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE HERBACEOUS
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / EDGE / PLANTATION
- LEAF LUMP
- LEAF ZONE
- SURFACE TREATMENT ZONE
- MARKERS (RAMP TO DETAIL)
- RETAINING WALL
- EDGE WALL
- RETAINING WALL WITH BENCH WALL
- RETAINING WALL WITH SLOTTED CURB
- TERRACE BARRIER
- CONCRETE CURB WITH SLOTTED CURB
- POURED TERRACE BARRIER
- 4-2000' BARRIER

NOTES

1. FOR CIVIL DESIGN, NOTES REFER TO SHEETS 04-080-LA-DG-0301, 0302, 0303, 0304, 0305, 0306, 0307, 0308, 0309, 0310, 0311, 0312, 0313, 0314, 0315, 0316, 0317, 0318, 0319, 0320, 0321, 0322, 0323, 0324, 0325, 0326, 0327, 0328, 0329, 0330, 0331, 0332, 0333, 0334, 0335, 0336, 0337, 0338, 0339, 0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347, 0348, 0349, 0350, 0351, 0352, 0353, 0354, 0355, 0356, 0357, 0358, 0359, 0360, 0361, 0362, 0363, 0364, 0365, 0366, 0367, 0368, 0369, 0370, 0371, 0372, 0373, 0374, 0375, 0376, 0377, 0378, 0379, 0380, 0381, 0382, 0383, 0384, 0385, 0386, 0387, 0388, 0389, 0390, 0391, 0392, 0393, 0394, 0395, 0396, 0397, 0398, 0399, 0400.
2. FOR LANDSCAPE DESIGN, NOTES REFER TO SHEETS 04-080-LA-DG-0301, 0302, 0303, 0304, 0305, 0306, 0307, 0308, 0309, 0310, 0311, 0312, 0313, 0314, 0315, 0316, 0317, 0318, 0319, 0320, 0321, 0322, 0323, 0324, 0325, 0326, 0327, 0328, 0329, 0330, 0331, 0332, 0333, 0334, 0335, 0336, 0337, 0338, 0339, 0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347, 0348, 0349, 0350, 0351, 0352, 0353, 0354, 0355, 0356, 0357, 0358, 0359, 0360, 0361, 0362, 0363, 0364, 0365, 0366, 0367, 0368, 0369, 0370, 0371, 0372, 0373, 0374, 0375, 0376, 0377, 0378, 0379, 0380, 0381, 0382, 0383, 0384, 0385, 0386, 0387, 0388, 0389, 0390, 0391, 0392, 0393, 0394, 0395, 0396, 0397, 0398, 0399, 0400.
3. FOR PLANT AND TREE SPECIFICATIONS, REFER TO THE SPECIFICATIONS ON DRAWINGS 04-080-LA-DG-0301, 0302, 0303, 0304, 0305, 0306, 0307, 0308, 0309, 0310, 0311, 0312, 0313, 0314, 0315, 0316, 0317, 0318, 0319, 0320, 0321, 0322, 0323, 0324, 0325, 0326, 0327, 0328, 0329, 0330, 0331, 0332, 0333, 0334, 0335, 0336, 0337, 0338, 0339, 0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347, 0348, 0349, 0350, 0351, 0352, 0353, 0354, 0355, 0356, 0357, 0358, 0359, 0360, 0361, 0362, 0363, 0364, 0365, 0366, 0367, 0368, 0369, 0370, 0371, 0372, 0373, 0374, 0375, 0376, 0377, 0378, 0379, 0380, 0381, 0382, 0383, 0384, 0385, 0386, 0387, 0388, 0389, 0390, 0391, 0392, 0393, 0394, 0395, 0396, 0397, 0398, 0399, 0400.
4. LANDSCAPE INSTALLATION AND MAINTENANCE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND SPECIFICATION 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400.
5. REFER TO DRAWINGS 04-080-LA-DG-0301, 0302, 0303, 0304, 0305, 0306, 0307, 0308, 0309, 0310, 0311, 0312, 0313, 0314, 0315, 0316, 0317, 0318, 0319, 0320, 0321, 0322, 0323, 0324, 0325, 0326, 0327, 0328, 0329, 0330, 0331, 0332, 0333, 0334, 0335, 0336, 0337, 0338, 0339, 0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347, 0348, 0349, 0350, 0351, 0352, 0353, 0354, 0355, 0356, 0357, 0358, 0359, 0360, 0361, 0362, 0363, 0364, 0365, 0366, 0367, 0368, 0369, 0370, 0371, 0372, 0373, 0374, 0375, 0376, 0377, 0378, 0379, 0380, 0381, 0382, 0383, 0384, 0385, 0386, 0387, 0388, 0389, 0390, 0391, 0392, 0393, 0394, 0395, 0396, 0397, 0398, 0399, 0400.
6. PLANTING AREAS WILL SHOW ARE FOR SLOPE SHEET 04-080-LA-DG-0301 THROUGH 0307.



DATE: 04-08-2019 10:00 AM	PROJECT: GERRY ARCHER OVAL AND LEACH ROAD IMPROVEMENTS	SHEET NO. 04-080-LA-DG-0307
SCALE: AS SHOWN	DESIGNER: [Name]	CHECKER: [Name]
APPROVED: [Signature]	DATE: [Date]	BY: [Name]

NO.	REVISION	DATE

NO.	REVISION	DATE

DATE: 04-08-2019 10:00 AM	PROJECT: GERRY ARCHER OVAL AND LEACH ROAD IMPROVEMENTS
SCALE: AS SHOWN	DESIGNER: [Name]
APPROVED: [Signature]	DATE: [Date]

DATE: 04-08-2019 10:00 AM	PROJECT: GERRY ARCHER OVAL AND LEACH ROAD IMPROVEMENTS
SCALE: AS SHOWN	DESIGNER: [Name]
APPROVED: [Signature]	DATE: [Date]

DATE: 04-08-2019 10:00 AM	PROJECT: GERRY ARCHER OVAL AND LEACH ROAD IMPROVEMENTS
SCALE: AS SHOWN	DESIGNER: [Name]
APPROVED: [Signature]	DATE: [Date]

DATE: 04-08-2019 10:00 AM	PROJECT: GERRY ARCHER OVAL AND LEACH ROAD IMPROVEMENTS
SCALE: AS SHOWN	DESIGNER: [Name]
APPROVED: [Signature]	DATE: [Date]

APPENDIX B: Baseline Site Species List

Family	Name
Apiaceae	<i>Certella asiatica</i>
Apiaceae	<i>Platysace ramosissima</i>
Apiaceae	<i>Trachymene pilosa</i>
Asparagaceae	<i>Laxmannia ramosa</i>
Asparagaceae	<i>Laxmannia squarrosa</i>
Asparagaceae	<i>Lomandra caespitosa</i>
Asparagaceae	<i>Lomandra hermaphrodita</i>
Asparagaceae	<i>Lomandra praesii</i>
Asparagaceae	<i>Lomandra sericea</i>
Asparagaceae	<i>Thysanotus multiflorus</i>
Asparagaceae	<i>Thysanotus patersonii/manglesianus</i>
Asparagaceae	<i>Thysanotus thyrsoides</i>
Asteraceae	<i>Helichrysum luteoalbum</i>
Asteraceae	<i>Siloxerus humifusus</i>
Asteraceae	<i>Trichocline spathulata</i>
Casuarinaceae	<i>Allocasuarina fraseriana</i>
Casuarinaceae	<i>Allocasuarina huegeliana</i>
Casuarinaceae	<i>Allocasuarina humilis</i>
Celastraceae	<i>Tripterococcus brunonis</i>
Colechicaceae	<i>Burchardia bairdii</i>
Colechicaceae	<i>Burchardia congesta</i>
Cupressaceae	<i>Callitris pyramidalis</i>
Cyperaceae	? <i>Mesomelaena</i> sp.
Cyperaceae	<i>Causis dioica</i>
Cyperaceae	<i>Cyathochaeta avenacea</i>
Cyperaceae	<i>Lepidosperma effusum</i>
Cyperaceae	<i>Lepidosperma leptostachyum</i>
Cyperaceae	<i>Lepidosperma pubisquamum</i>
Cyperaceae	<i>Lepidosperma squamatum</i>
Cyperaceae	<i>Mesomelaena pseudostygia</i>
Cyperaceae	<i>Mesomelaena stygia</i>
Cyperaceae	<i>Mesomelaena tetragona</i>
Cyperaceae	<i>Schoenus brevisets</i>
Cyperaceae	<i>Schoenus curvifolius</i>
Cyperaceae	<i>Schoenus efoliatus</i>
Cyperaceae	<i>Schoenus pedicellatus</i>
Cyperaceae	<i>Tricostularia neesii</i>
Cyperaceae	<i>Tricostularia neesii</i> var. ? <i>elatior</i>
Cyperaceae	<i>Tricostularia neesii</i> var. <i>neesii</i>
Dasyopogonaceae	<i>Calcectasia narragara</i>
Dasyopogonaceae	<i>Dasyopogon bromeliifolius</i>
Dasyopogonaceae	<i>Dasyopogon obliquifolius</i>
Dasyopogonaceae	<i>Kingia australis</i>
Dilleniaceae	<i>Hibbertia huegeli</i>
Dilleniaceae	<i>Hibbertia hypericoides</i>
Dilleniaceae	<i>Hibbertia racemosa</i>
Droseraceae	<i>Drosera erythrorhiza</i>
Droseraceae	<i>Drosera paleacea</i>
Droseraceae	<i>Drosera paleacea</i> subsp. <i>paleacea</i>
Droseraceae	<i>Drosera pallida</i>
Droseraceae	<i>Drosera stolonifera</i>
Ericaceae	<i>Astrokoma stomarrhena</i>

Family	Name
Ericaceae	Conostephium pendulum
Ericaceae	Leucopogon conostephioides
Ericaceae	Leucopogon propinquus
Ericaceae	Lysinema ciliatum
Ericaceae	Styphelia tenuiflora
Euphorbiaceae	Monotaxis grandiflora
Fabaceae	Acacia appplanata
Fabaceae	Acacia huegeli
Fabaceae	Acacia lasiocarpa
Fabaceae	Acacia pulchella
Fabaceae	Acacia saligna
Fabaceae	Acacia sessilis
Fabaceae	Aotus gracillima
Fabaceae	Bosniaca eriocarpa
Fabaceae	Daviesia decurrens
Fabaceae	Daviesia divaricata subsp. divaricata ms
Fabaceae	Daviesia incrassata subsp. incrassata
Fabaceae	Daviesia nudiflora subsp. nudiflora
Fabaceae	Daviesia physodes
Fabaceae	Daviesia polyphylla
Fabaceae	Daviesia triflora
Fabaceae	Euchloopsis linearis
Fabaceae	Eulalia virgata
Fabaceae	Gastrolobium capitatum
Fabaceae	Gompholobium confertum
Fabaceae	Gompholobium knightianum
Fabaceae	Gompholobium tomentosum
Fabaceae	Hovea trisperma
Fabaceae	Jacksonia angulata
Fabaceae	Jacksonia floribunda
Fabaceae	Jacksonia furcellata
Fabaceae	Kennedia coccinea
Fabaceae	Kennedia prostrata
Fabaceae	Sphaerolobium macranthum
Fabaceae	Sphaerolobium vimineum
Goodeniaceae	Dampiera linearis
Goodeniaceae	Lechenaultia ? expansa
Goodeniaceae	Lechenaultia biloba
Goodeniaceae	Lechenaultia floribunda
Goodeniaceae	Scaevola repens
Goodeniaceae	Scaevola repens var. repens
Haemodoraceae	Anigozanthos humilis
Haemodoraceae	Anigozanthos manglesi
Haemodoraceae	Conostylis aculeata
Haemodoraceae	Conostylis aculeata subsp. aculeata
Haemodoraceae	Conostylis aurea
Haemodoraceae	Conostylis juncea
Haemodoraceae	Conostylis setigera subsp. setigera
Haemodoraceae	Haemodorum laxum
Haemodoraceae	Phlebocarya ciliata
Hereroacalidaceae	Agrostocrinum hirsutum

Family	Name
Hemerocallidaceae	Agrostocrinum sp.
Hemerocallidaceae	Amocrinum preissii
Hemerocallidaceae	Caesia micrantha
Hemerocallidaceae	Corynotheca micrantha
Hemerocallidaceae	Dianella revoluta
Hemerocallidaceae	Johnsonia pubescens
Hemerocallidaceae	Johnsonia pubescens subsp. pubescens
Hemerocallidaceae	Tricoryne elatior
Hemerocallidaceae	Tricoryne tenella
Iridaceae	Orthrosanthus laxus var. laxus
Iridaceae	Patersonia occidentalis
Juncaceae	Juncus pallidus
Lamiaceae	Hemiandra linearis
Lamiaceae	Hemiandra pungens
Lamiaceae	Pityrodia bartlingi
Lauraceae	Cassytha racemosa forma racemosa
Loranthaceae	Nuytsia floribunda
Molluginaceae	Macarthuria kalgheryi
Myrtaceae	Astartea scoparia
Myrtaceae	Calothamnus lateralis
Myrtaceae	Calothamnus quadrifidus
Myrtaceae	Calytrix aurea
Myrtaceae	Calytrix flavescens
Myrtaceae	Calytrix fraseri
Myrtaceae	Chamelaucium uncinatum
Myrtaceae	Corymbia calophylla
Myrtaceae	Eremaea asterocarpa
Myrtaceae	Eremaea pauciflora
Myrtaceae	Eremaea pauciflora var. pauciflora
Myrtaceae	Eucalyptus marginata
Myrtaceae	Eucalyptus todtiana
Myrtaceae	Hypocalymma angustifolium
Myrtaceae	Kunzea glabrescens
Myrtaceae	Leptospermum erubescens
Myrtaceae	Leptospermum spinescens
Myrtaceae	Melaleuca aspalathoides
Myrtaceae	Melaleuca huegelii subsp. huegelii
Myrtaceae	Melaleuca lanceolata
Myrtaceae	Melaleuca lateralis
Myrtaceae	Melaleuca latentia
Myrtaceae	Melaleuca nesophila
Myrtaceae	Melaleuca preissiana
Myrtaceae	Melaleuca raphiophylla
Myrtaceae	Melaleuca seriata
Myrtaceae	Melaleuca systema
Myrtaceae	Pericalymma ellipticum
Myrtaceae	Scholtzia involucrata
Myrtaceae	Taxandria linearifolia
Myrtaceae	Verticordia densiflora
Myrtaceae	Verticordia densiflora var. densiflora
Myrtaceae	Verticordia lindleyi subsp. lindleyi
Myrtaceae	Verticordia sp.

Family	Name
Orchidaceae	<i>Prasophyllum drummondii</i>
Orchidaceae	<i>Prasophyllum</i> sp.
Orchidaceae	<i>Pyrorchis nigricans</i>
Pittosporaceae	<i>Billardiera fraseri</i>
Pittosporaceae	<i>Billardiera</i> sp.
Poaceae	<i>Amphipogon turbinatus</i>
Poaceae	<i>Austrostipa flavescens</i>
Poaceae	<i>Austrostipa mollis</i>
Poaceae	<i>Naurachne abpecuroidea</i>
Poaceae	<i>Tetrarrhena laevis</i>
Polygalaceae	<i>Comesperma calymega</i>
Polygalaceae	<i>Comesperma confertum</i>
Polygonaceae	<i>Muehlenbeckia adpressa</i>
Proteaceae	<i>Adenanthos cygnorum</i>
Proteaceae	<i>Adenanthos sericeus</i>
Proteaceae	<i>Banksia attenuata</i>
Proteaceae	<i>Banksia dallanneyi</i>
Proteaceae	<i>Banksia dallanneyi</i> var. <i>dallanneyi</i>
Proteaceae	<i>Banksia grandis</i>
Proteaceae	<i>Banksia ilicifolia</i>
Proteaceae	<i>Banksia menziesii</i>
Proteaceae	<i>Banksia nivea</i>
Proteaceae	<i>Banksia sessilis</i>
Proteaceae	<i>Conospermum huegelii</i>
Proteaceae	<i>Conospermum undulatum</i>
Proteaceae	<i>Grevillea obtusifolia</i>
Proteaceae	<i>Hakea ceratophylla</i>
Proteaceae	<i>Hakea prostrata</i>
Proteaceae	<i>Hakea ruscifolia</i>
Proteaceae	<i>Hakea sulcata</i>
Proteaceae	<i>Hakea trifurcata</i>
Proteaceae	<i>Hakea undulata</i>
Proteaceae	<i>Hakea varia</i>
Proteaceae	<i>Isopogon drummondii</i>
Proteaceae	<i>Lambertia multiflora</i>
Proteaceae	<i>Persoonia elliptica</i>
Proteaceae	<i>Persoonia saccata</i>
Proteaceae	<i>Petrophile linearis</i>
Proteaceae	<i>Petrophile macrostachya</i>
Proteaceae	<i>Stirlingia latifolia</i>
Proteaceae	<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>
Proteaceae	<i>Xylomelum occidentale</i>
Restionaceae	? <i>Meeboldina</i> sp.
Restionaceae	<i>Alexgeorgea nitens</i>
Restionaceae	<i>Chaetanthus aristatus</i>
Restionaceae	<i>Chordifex sinuosus</i>
Restionaceae	<i>Cytogonidium leptocarpoides</i>
Restionaceae	<i>Desmocladus fasciculatus</i>
Restionaceae	<i>Desmocladus flexuosus</i>
Restionaceae	<i>Dielsia stenostachya</i>
Restionaceae	<i>Hypobena exsulca</i>

Family	Name
Restionaceae	Lepyrodia muiiri
Restionaceae	Lyginia barbata
Restionaceae	Lyginia imberbis
Restionaceae	Maeboldina scariosa
Rubiaceae	Opercularia vaginata
Rutaceae	Boronia ramosa
Rutaceae	Boronia ramosa subsp. anethifolia
Rutaceae	Phllotheca spicata
Stylidiaceae	Stylidium ? miniatum
Stylidiaceae	Stylidium brunonianum
Stylidiaceae	Stylidium diuroides subsp. diuroides
Stylidiaceae	Stylidium repens
Stylidiaceae	Stylidium repens var. repens
Stylidiaceae	Stylidium schoenoides
Thymelaeaceae	Pimelea floribunda
Thymelaeaceae	Pimelea sulphurea
Violaceae	Hybanthus calycinus
Xanthorrhoeaceae	Xanthorrhoea brunonis
Xanthorrhoeaceae	Xanthorrhoea preissii
Zamiaceae	Macrozamia nediei