GatewayWA

Perth Airport and Freight Access Project

Management Plan

Gateway WA Perth Airport and Freight Access Project

Rehabilitation & Landscape Management Plan – Project Wide

Document No. GWA-PW-MNP-EN-0012 Rev. 0

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REVISION RECORDING

Rev	Date	By (Initials)	Description of Revision
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	1. Soil erosion is controlled such that it does not impact bushland outside the Project area 2. 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	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	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 (5) 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.

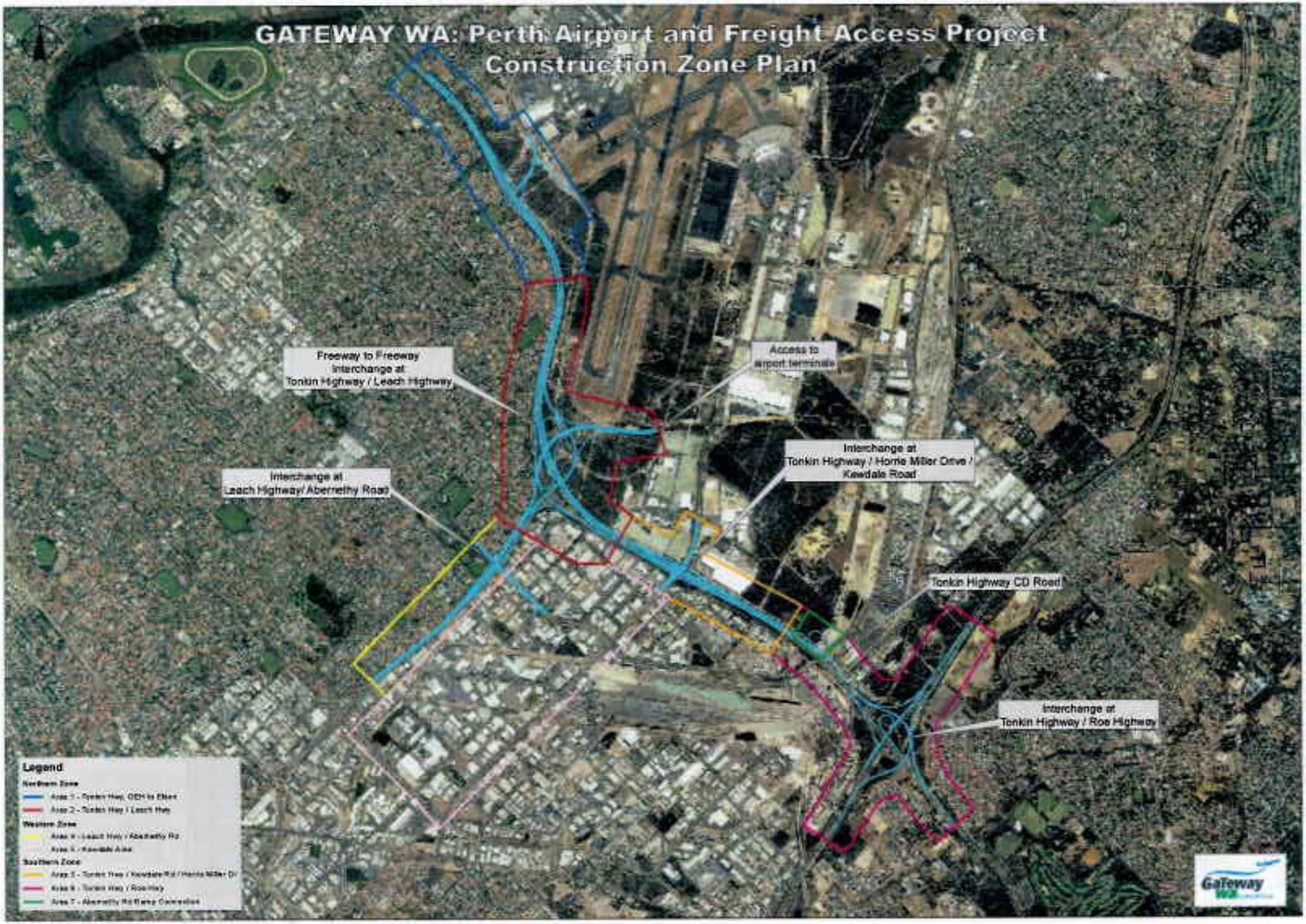
SEWPaC will be consulted if any changes are made to this plan which significantly change the overall intent of the final product of the Project rehabilitation and Landscape works.

6 REFERENCES

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

APPENDIX A: Figures

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


GATEWAY WA: Perth Airport and Freight Access Project
Construction Zone Plan
Freeway to Freeway Interchange at Tonkin Highway / Leach Highway
Access to airport terminals
Interchange at Tonkin Highway / Horrie Miller Drive / Kewdale Road
Interchange at Leach Highway/ Abernethy Road
Tonkin Highway CD Road
Interchange at Tonkin Highway / Roe Highway
Legend
Northern Zone
Area 1 - Tonkin Hwy, GDH to Elkhorn
Area 2 - Tonkin Hwy / Leach Hwy
Western Zone
Area 4 - Leach Hwy / Abernethy Rd
Area 5 - Kewdale Area
Southern Zone
Area 6 - Tonkin Hwy / Roe Hwy
Area 7 - Abernethy Rd Ramp Connection


DRAFT
AREA 1
AREA 2
AREA 1
0 100 200 300
Metres
LEGEND
Environmental Constraints in Work Areas
WORK AREA 1
Gateway


DRAFT
AREA 1
AREA 2
AREA 3
AREA 4
AREA 5
AREA 2
0 120 240 360
Metres
LEGEND
Environmental Constraints in Work Areas
WORK AREA 2
Gateway

AREA 3

0 100 200 300

Metres

LEGEND

Environmental Constraints in Work Areas

WORK AREA 3

Gateway

AREA 4

0 100 200 300

Metres

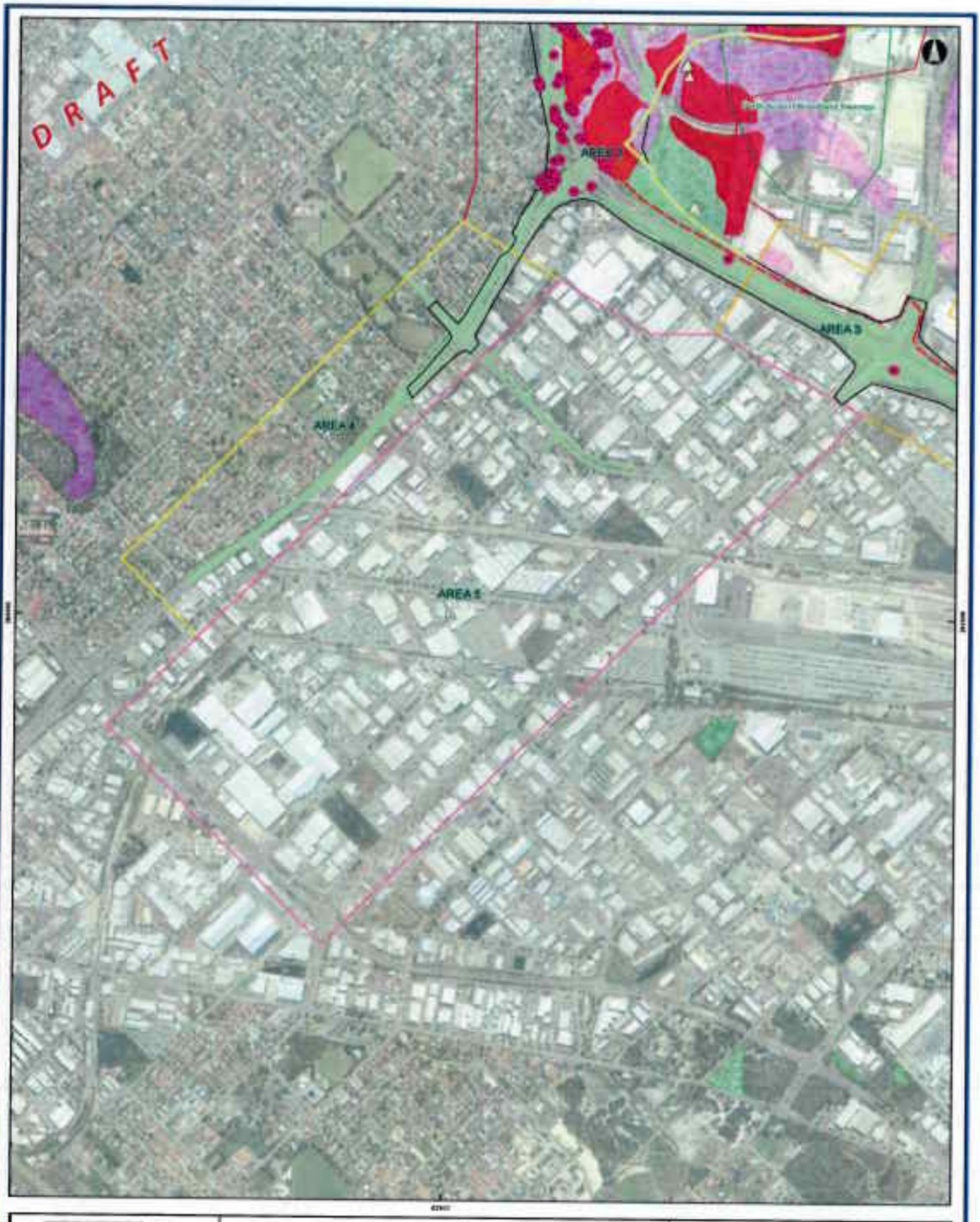
17,420 (A3)

LEGEND

Environmental Constraints in Work Areas

WORK AREA 4

Gateway



0 170 340 510

Metres

1:10,000 (A3)

LEGEND

Environmental Constraints in Work Areas

WORK AREA 5

GatewayWest

AREA 6

0 120 240 360

Metres

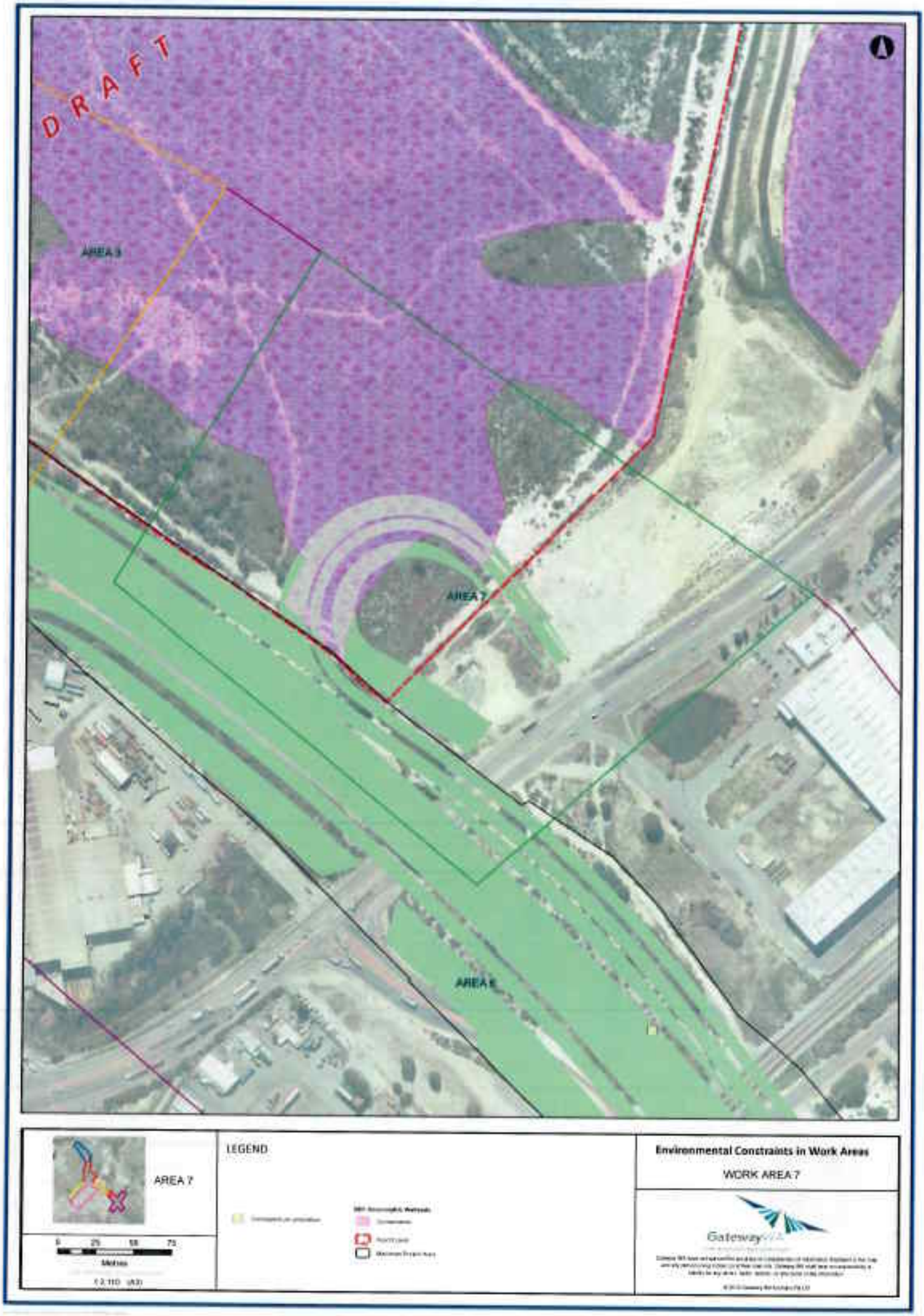
1:5,000 (A3)

LEGEND

Environmental Constraints in Work Areas

WORK AREA 6

Gateway



AREA 7

0 25 50 75

Metres

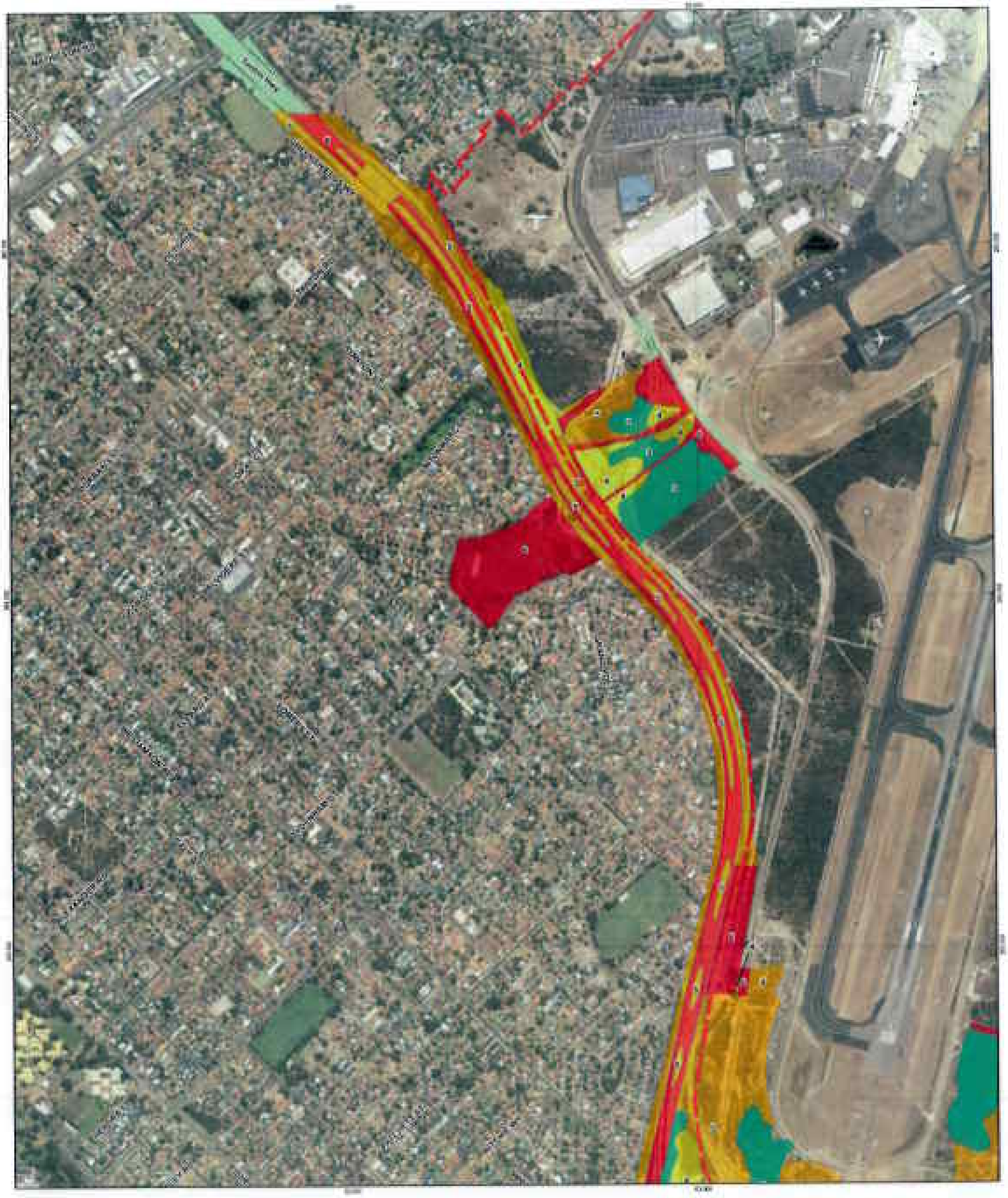
1:2,110 (A3)

LEGEND

Environmental Constraints in Work Areas

WORK AREA 7

Gateway



LEGEND

Vegetation Condition

1 - Pristine or nearly so	4 - Good
2 - Excellent	5 - Degraded
3 - Very Good	6 - Completely Degraded

Airport - Commonwealth Government Land

Preferred Road Option

1:10,000 (at A3)

0 50 100 200 300 400 500

Metres

Map Projection: Transverse Mercator
Horizontal Datum: Geocentric Datum of Australia
Grid: Perth Coastal Grid (PCG94)

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Perth Airport and Freight Access Project

Vegetation Condition

Job Number 61-2587834
Revision 0
Date 09 Dec 2011

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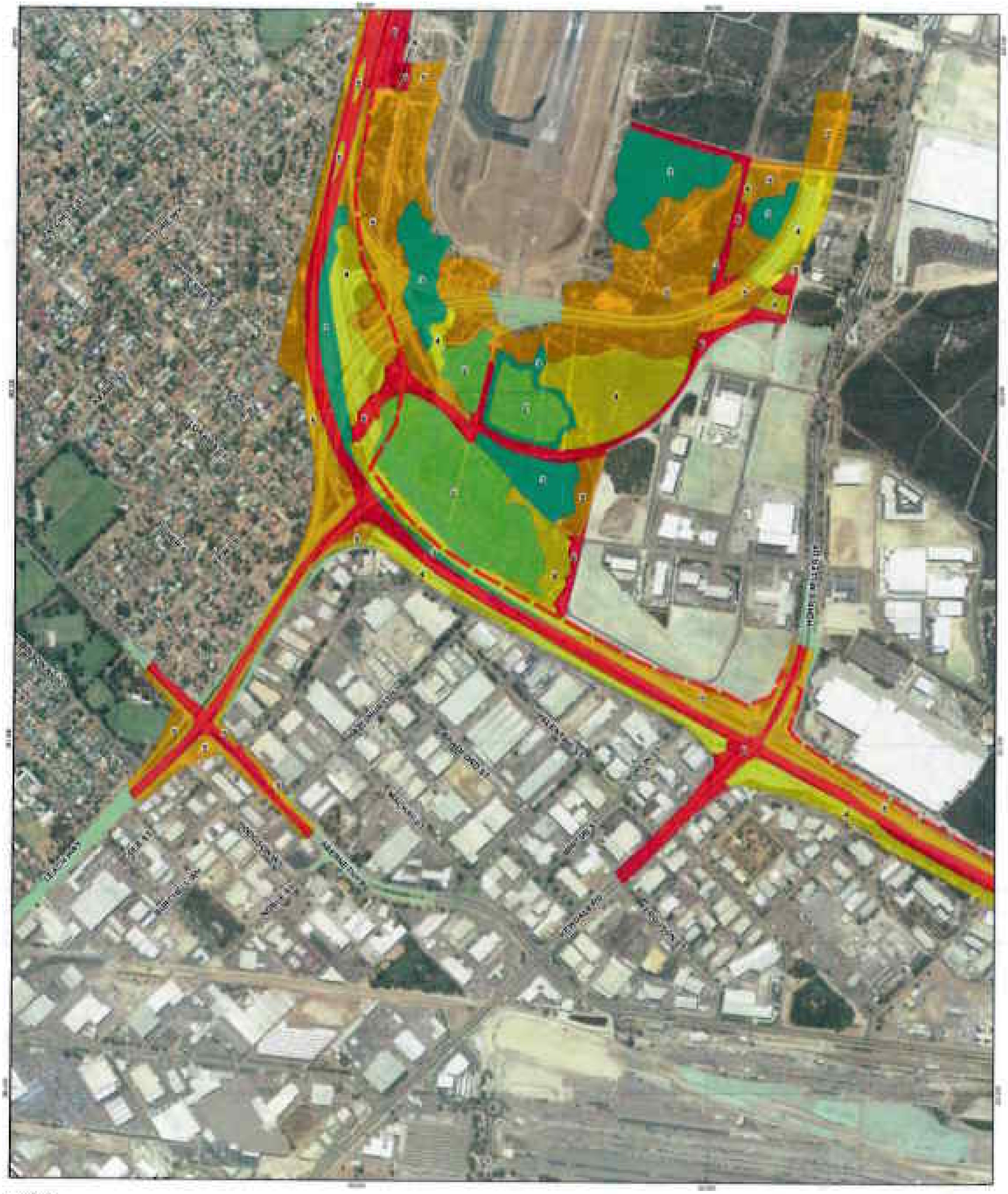
Figure 5

239 Adelaide Terrace Perth WA 6004 Australia T 61 8 6222 8222 F 61 8 6222 8555 E permail@ghd.com.au W www.ghd.com.au



LEGEND

Vegetation Condition

- 1 - Pristine or nearly so
- 2 - Excellent
- 3 - Very Good
- 4 - Good
- 5 - Degraded
- 6 - Completely Degraded
- Airport - Commonwealth Government Land
- Preferred Road Option

1:10,000 (at A3)

0 50 100 200 300 400 500

Metres

Map Projection: Transverse Mercator
Horizontal Datum: Geocentric Datum of Australia
Grid: Perth Coastal Grid (PCG94)

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Perth Airport and Freight Access Project

Job Number	61-2597034
Revision	0
Date	09 Dec 2011

Vegetation Condition

Figure 5

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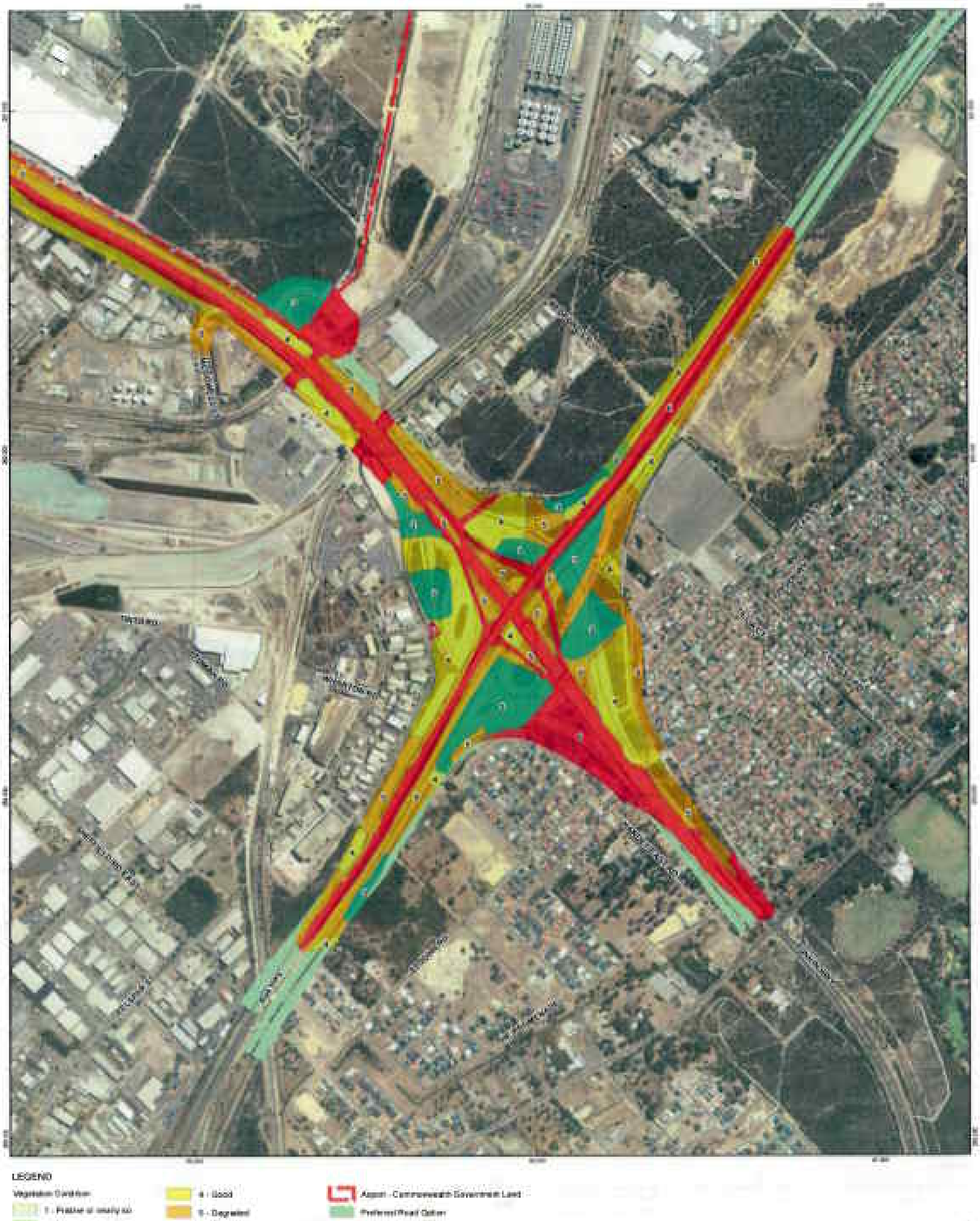

LEGEND

Vegetation Condition

1 - Pristine or nearly so

2 - Excellent

3 - Very Good

4 - Good

5 - Degraded

6 - Completely Degraded

Airport - Commonwealth Government Land

Preferred Road Option

1:10,000 (at A3)

0 50 100 200 300 400 500

Metres

Map Projection: Transverse Mercator
Horizontal Datum: Geocentric Datum of Australia
Grid: Perth Coastal Grid (PCG94)

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Perth Airport and Freight Access Project

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Date | 09 Dec 2011

Vegetation Condition

Figure 5

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LEGEND
DEC Records Significant Flora
(R) Declared Rare Flora - Extant Taxa
Priority 1 - Poorly known Taxa
Priority 3 - Poorly known Taxa
Priority 4 - Rare Taxa
GHD - Declared Rare Plant
Conospermum undulatum
Macarthuria keigheryi
Quokkid
Airport - Commonwealth Government Land
Preferred Road Option
GHD Vegetation Type
V1
V2
V3a
V3b
V4
V5
V6
V7
V8
V9
V10
V11
V12
P
Halliday Vegetation Type
H1
J1
K1
K2
K3
K4
D - Disturbed Areas
Orb - Open Water
(d) Degraded and highly modified communities
1:10,000 (at A3)
0 50 100 200 300 400 500
Metres
Map Projection: Transverse Mercator
Horizontal Datum: Geocentric Datum of Australia
Grid: Perth Coastal Grid (PCG94)
N
gatewayvision
Gateway WA
Perth Airport and Freight Access Project
Vegetation Types and Significant Flora records
Job Number 61-25870/34
Revision 0
Date 09 Dec 2011
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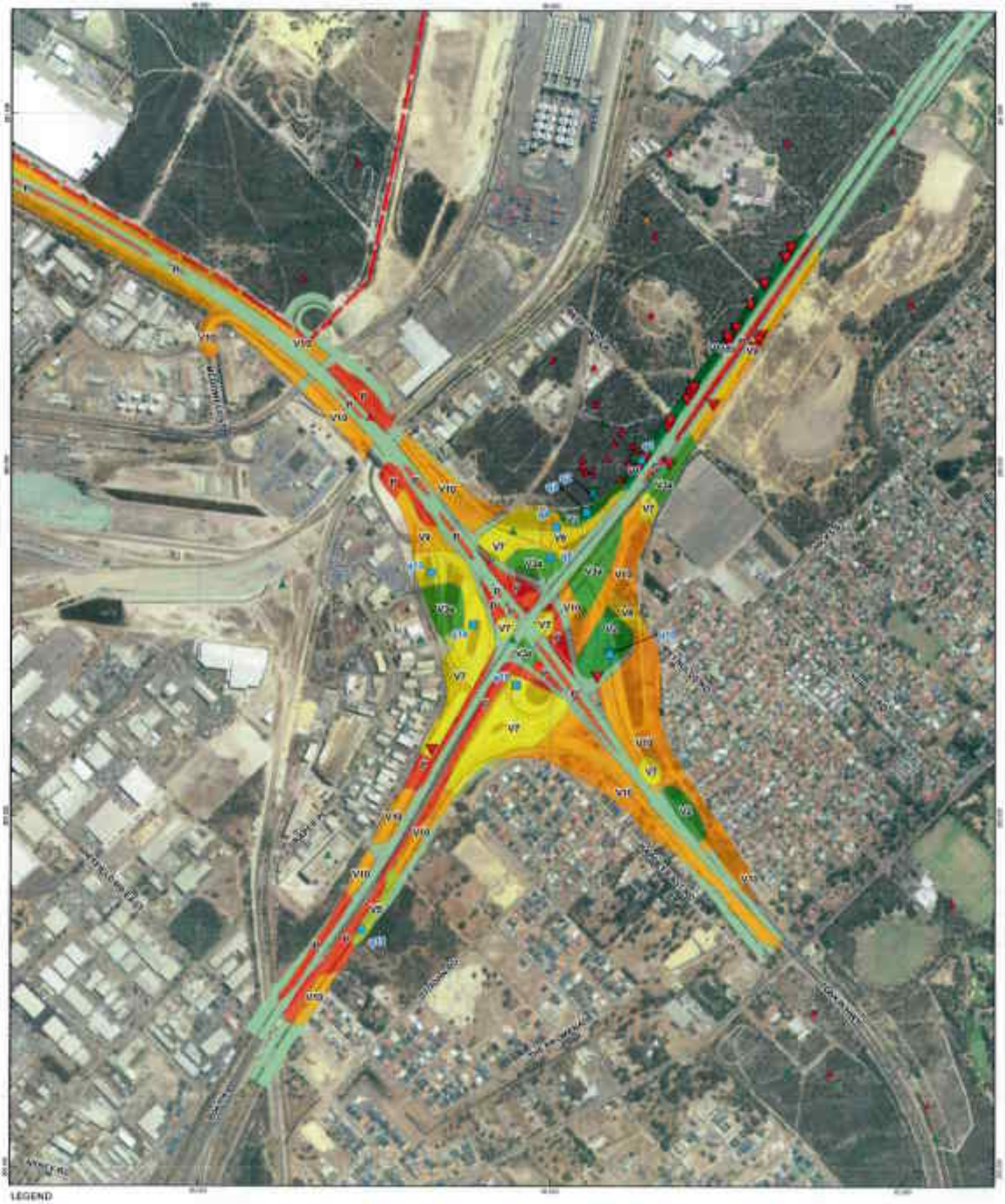
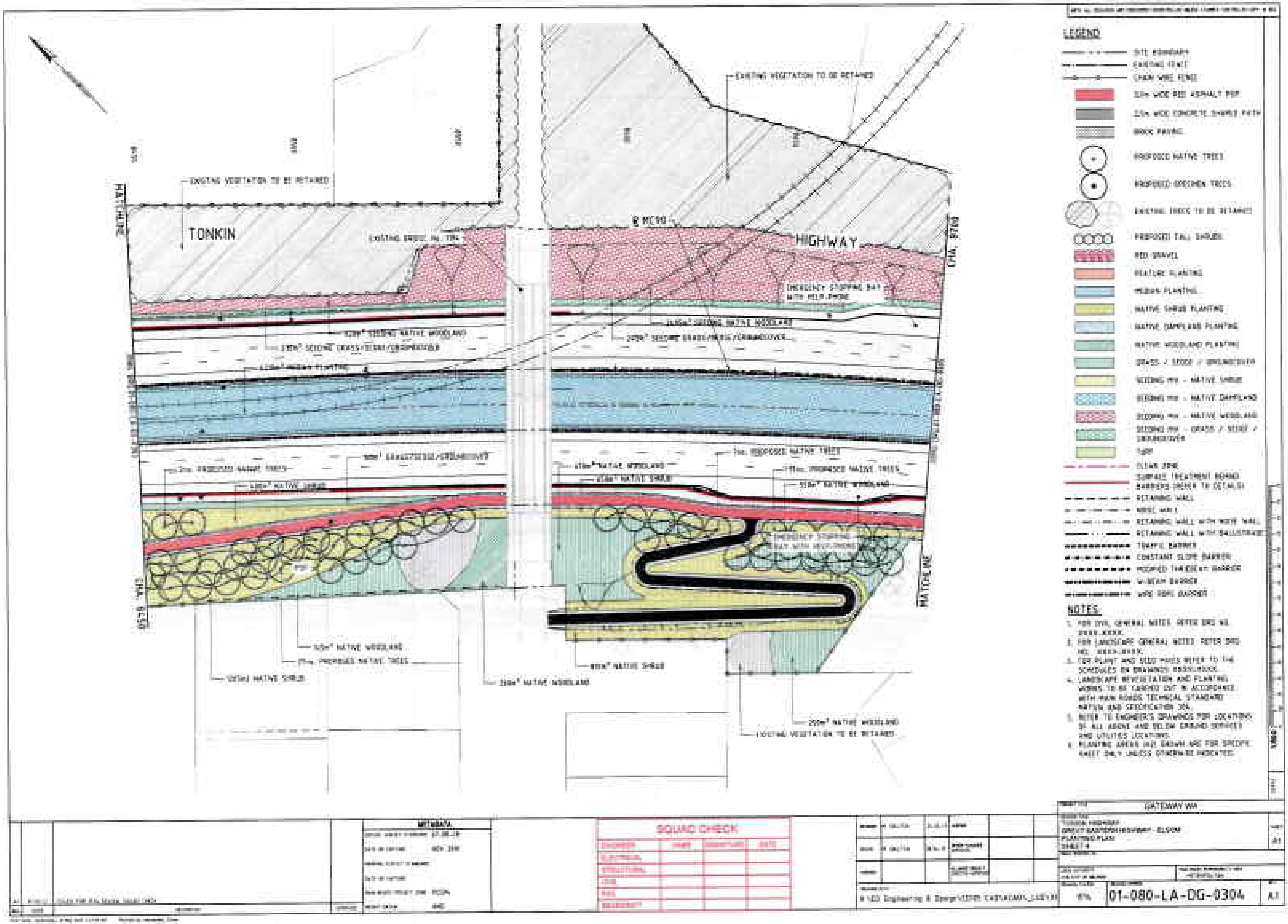
Figure 6

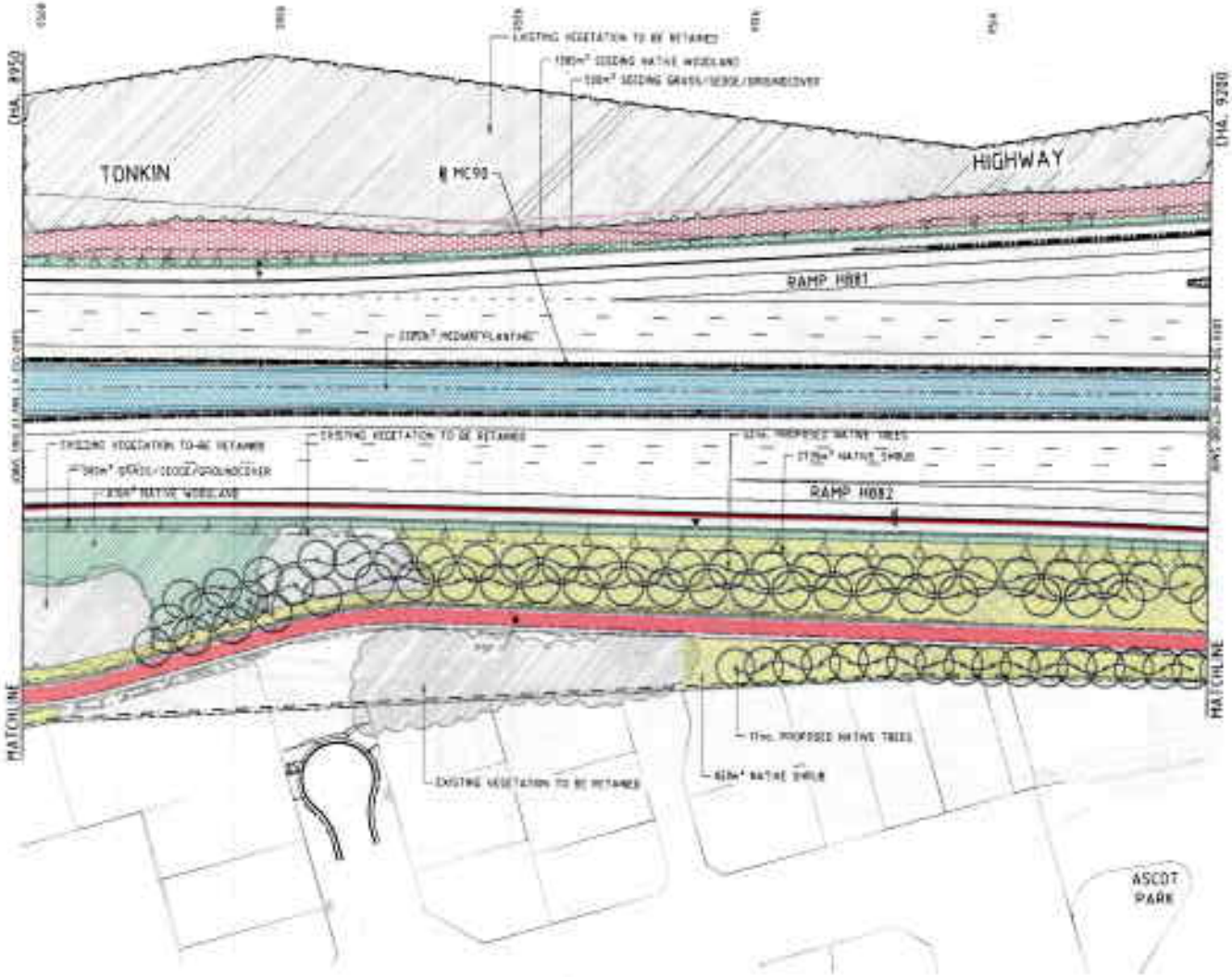
239 Adelaide Terrace Perth WA 6004 Australia T 61 8 6222 8222 F 61 8 6222 8555 E permail@ghd.com.au W www.ghd.com.au



239 Adelaide Terrace Perth WA 6004 Australia T 61 8 6222 8222 F 61 8 6222 8555 E permail@ghd.com.au W www.ghd.com.au



LEGEND
SITE BOUNDARY
EXISTING FENCE
CHAIN WIRE FENCE
3.0m WIDE RED ASPHALT PSP
2.5m WIDE CONCRETE SHARED PATH
BRICK PAVING
PROPOSED NATIVE TREES
PROPOSED SPECIMEN TREES
EXISTING TREES TO BE RETAINED
PROPOSED TALL SHRUBS
RED GRAVEL
FEATURE PLANTING
MEDIAN PLANTING
NATIVE SHRUB PLANTING
NATIVE DAMPLAND PLANTING
NATIVE WOODLAND PLANTING
GRASS / SEDGE / GROUNDCOVER
SEEDING MIX - NATIVE SHRUB
SEEDING MIX - NATIVE DAMPLAND
SEEDING MIX - NATIVE WOODLAND
SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
TURF
CLEAR ZONE
SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
RETAINING WALL
NOISE WALL
RETAINING WALL WITH NOISE WALL
RETAINING WALL WITH BALUSTRADE
TRAFFIC BARRIER
CONSTANT SLOPE BARRIER
MODIFIED THRIEBEAM BARRIER
W-BEAM BARRIER
WIRE ROPE BARRIER
NOTES:
1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS16 AND SPECIFICATION 304.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS NOT SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.
TONKIN
HIGHWAY
MATCHLINE
CHA. 8450
CHA. 8700
EXISTING VEGETATION TO BE RETAINED
EMERGENCY STOPPING BAY WITH HELP-PHONE
250m² NATIVE WOODLAND
SQUAD CHECK
ENGINEER
NAME
SIGNATURE
DATE
ELECTRICAL
STRUCTURAL
CIVIL
RAIL
LANDSCAPE
GATEWAY WA
TONKIN HIGHWAY
GREAT EASTERN HIGHWAY - ELSOM
PLANTING PLAN
SHEET 4
01-080-LA-DG-0304
A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 32m WIDE RED ASPHALT ESP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB PLANTING
- NATIVE DAMPLAND PLANTING
- NATIVE WOODLAND PLANTING
- GRASS / SEED / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE DAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEED / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIEBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD NR704 AND SPECIFICATION 304.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS NOT SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

METADATA

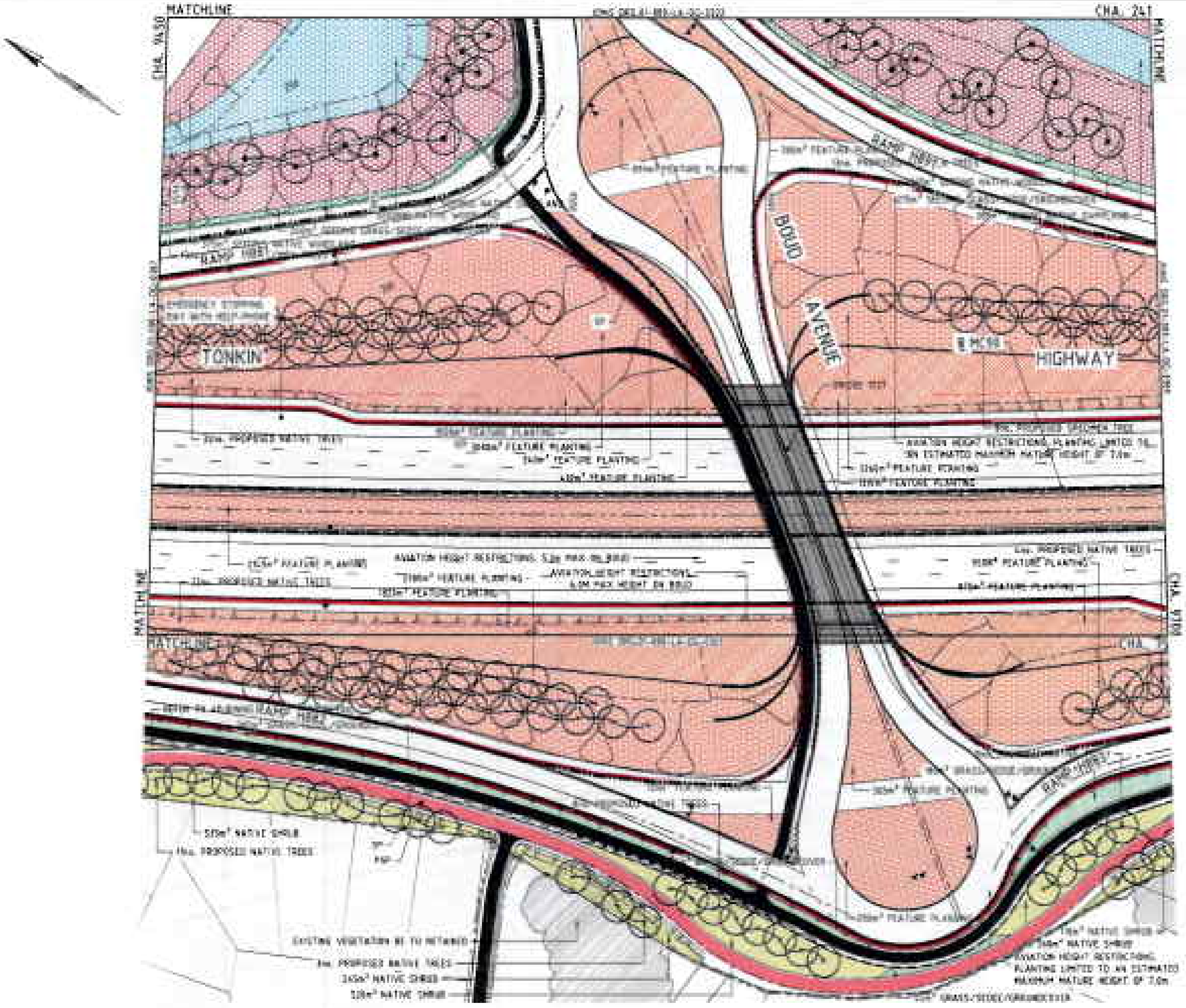
SQUAD CHECK

DISCIPLINE	NAME	SIGNATURE	DATE
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
MANAGEMENT			

GATEWAY WA

TONKIN HIGHWAY
GREAT EASTERN HIGHWAY - ELVIRA
PLANTING PLAN
SHEET 8

01-080-LA-DG-0306 A1



LEGEND

	SITE BOUNDARY
	EXISTING FENCE
	CHAIN WIRE FENCE
	3.0m WIDE RED ASPHALT PSP
	3.0m WIDE CONCRETE SHARED PATH
	BRICK PAVING
	PROPOSED NATIVE TREES
	PROPOSED SPECIMEN TREES
	EXISTING TREES TO BE RETAINED
	PROPOSED TALL SHRUBS
	RED GRAVEL
	FEATURE PLANTING
	MEDIAN PLANTING
	NATIVE SHRUB PLANTING
	NATIVE DAMPLAND PLANTING
	NATIVE WOODLAND PLANTING
	GRASS / SEDGE / GROUNDCOVER
	SEEDING MIX - NATIVE SHRUB
	SEEDING MIX - NATIVE DAMPLAND
	SEEDING MIX - NATIVE WOODLAND
	SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
	TURF
	CLEAR ZONE
	SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
	RETAINING WALL
	NOISE WALL
	RETAINING WALL WITH NOISE WALL
	RETAINING WALL WITH BALUSTRADE
	TRAFFIC BARRIER
	CONSTANT SLOPE BARRIER
	MODIFIED THRIEBEAM BARRIER
	W-BEAM BARRIER
	WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS16 AND SPECIFICATION 304.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS (m²) SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

SQUAD CHECK

DISCIPLINE	NAME	SIGNATURE	DATE
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
DRAINAGE			

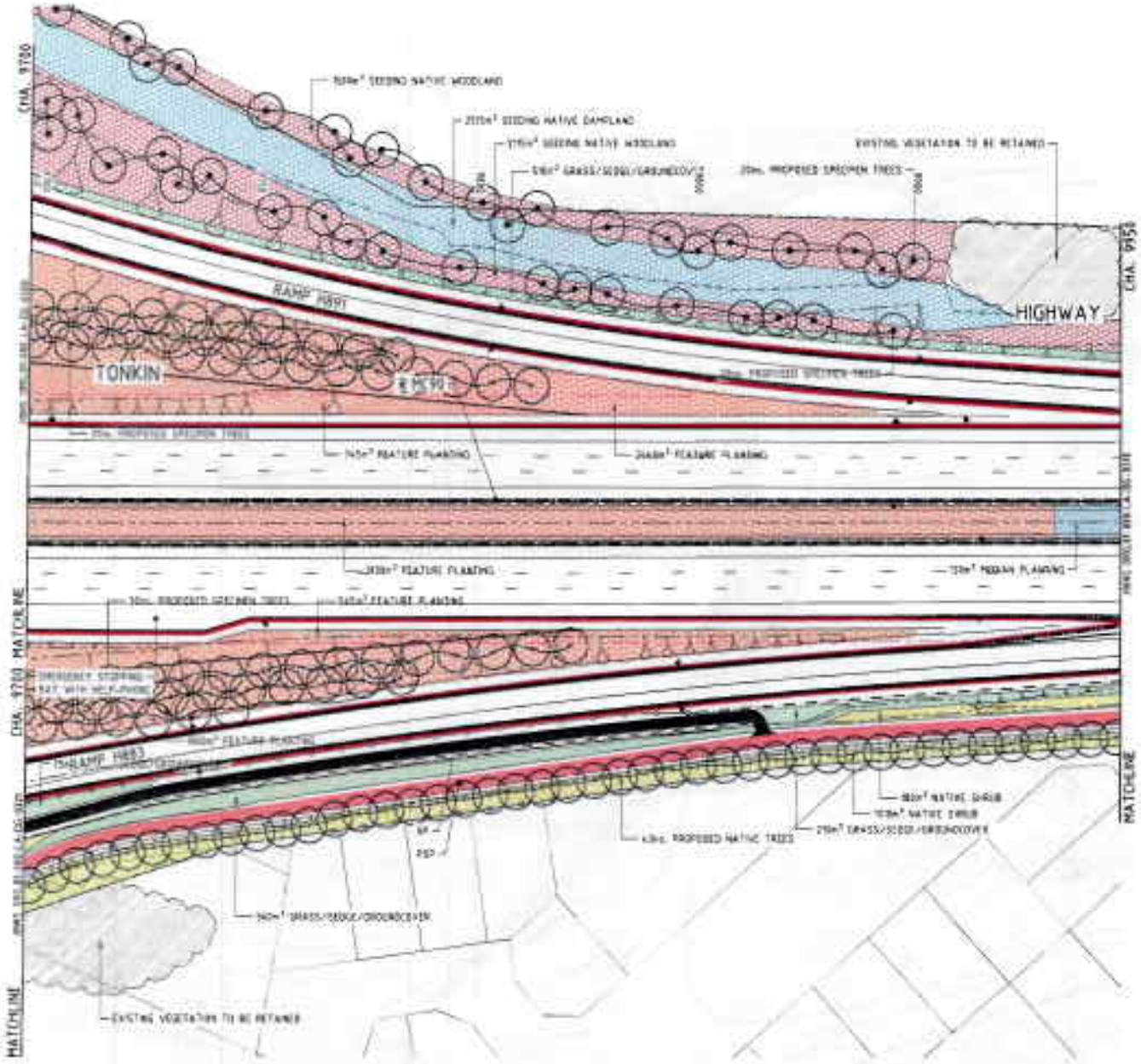
METADATA

GATEWAY WA

TONKIN HIGHWAY
GREAT EASTERN HIGHWAY / ELBOW
PLANTING PLAN
SHEET 8

01-080-LA-DG-0308

A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 3.5m WIDE RED ASPHALT PSP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- PEA GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB PLANTING
- NATIVE DAMPLAND PLANTING
- NATIVE WOODLAND PLANTING
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX – NATIVE SHRUB
- SEEDING MIX – NATIVE DAMPLAND
- SEEDING MIX – NATIVE WOODLAND
- SEEDING MIX – GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS REFER TO DETAILS
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIESEAM BARRIER
- W-BEAM BARRIER
- WIDE EDGE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DWG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES REFER DWG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD NOTICES AND SPECIFICATION 304.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS AND SPREAD ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

METADATA

SQUAD CHECK

DISCIPLINE	NAME	SIGNATURE	DATE
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
LANDSCAPE			

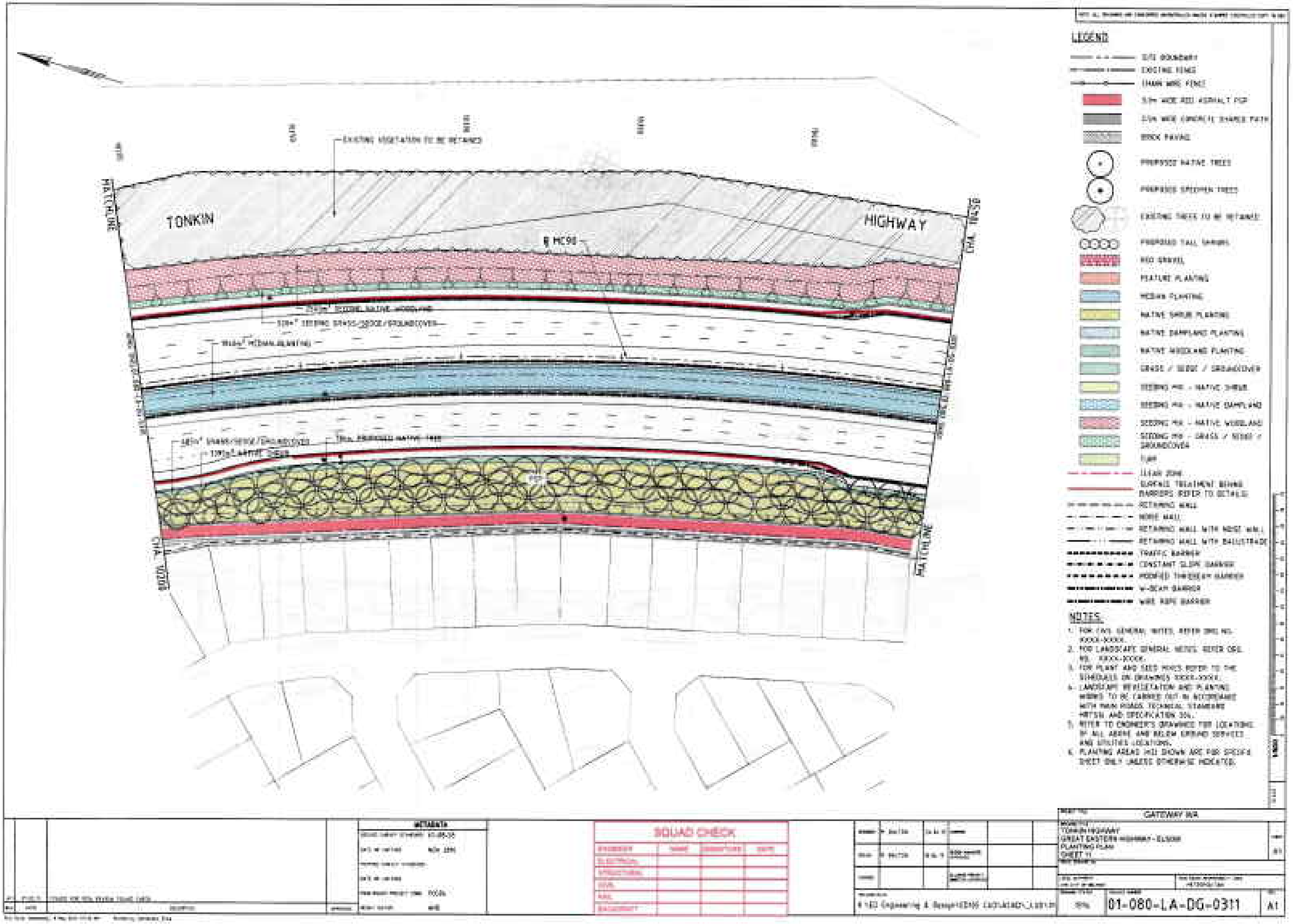
GATEWAY WA

TONKIN HIGHWAY
GREAT EASTERN HIGHWAY - ELDOM
PLANTING PLAN
SHEET 8

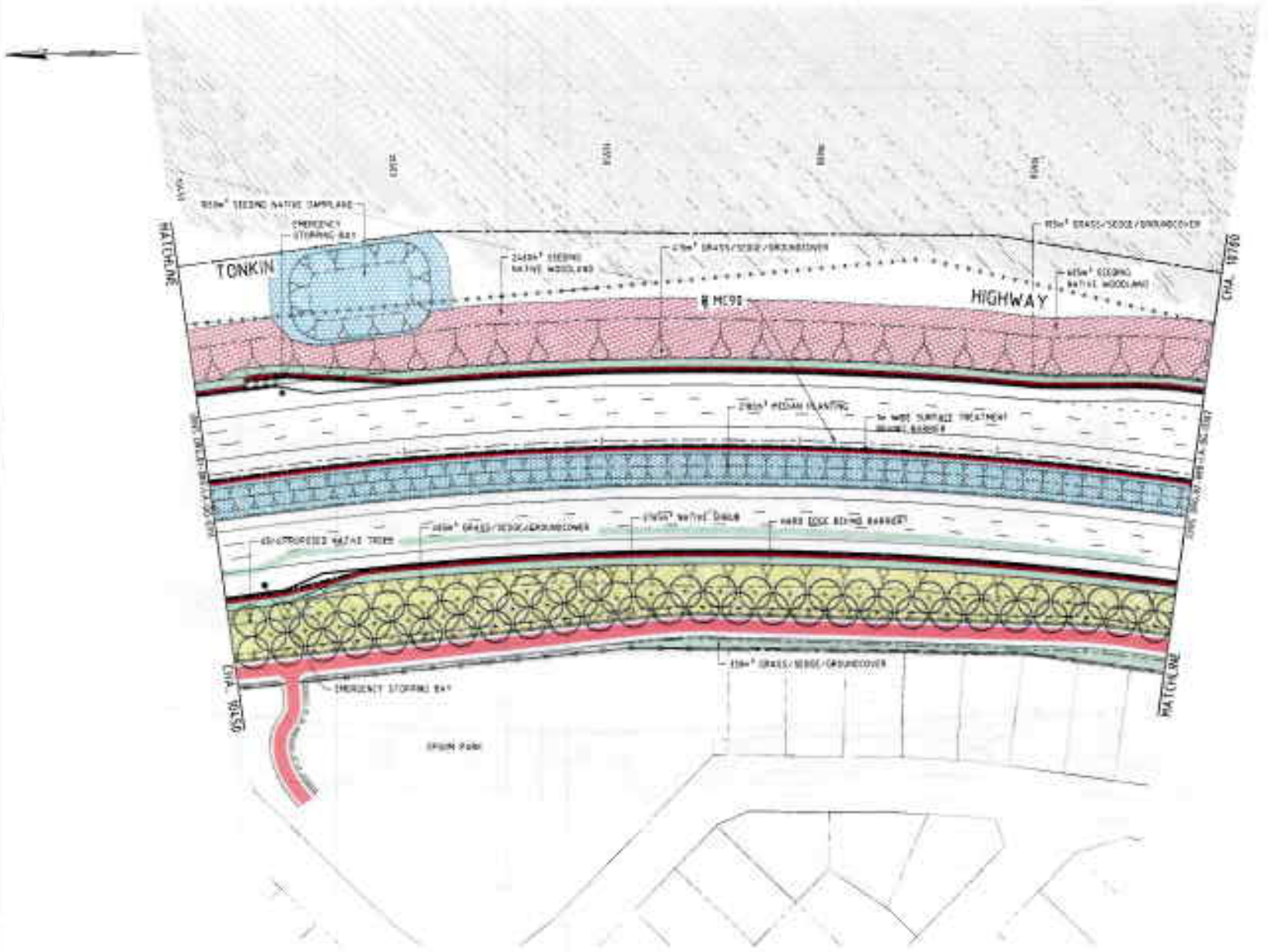
90%

01-080-LA-DG-0309

A1



LEGEND
SITE BOUNDARY
EXISTING FENCE
CHAIN WIRE FENCE
3.0m WIDE RED ASPHALT PSP
3.0m WIDE CONCRETE SHARED PATH
BRICK PAVING
PROPOSED NATIVE TREES
PROPOSED SPECIMEN TREES
EXISTING TREES TO BE RETAINED
PROPOSED TALL SHRUBS
RED GRAVEL
FEATURE PLANTING
MEDIAN PLANTING
NATIVE SHRUB PLANTING
NATIVE DAMPLAND PLANTING
NATIVE WOODLAND PLANTING
GRASS / SEDGE / GROUNDCOVER
SEEDING MIX - NATIVE SHRUB
SEEDING MIX - NATIVE DAMPLAND
SEEDING MIX - NATIVE WOODLAND
SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
TURF
CLEAR ZONE
SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
RETAINING WALL
NOISE WALL
RETAINING WALL WITH NOISE WALL
RETAINING WALL WITH BALUSTRADE
TRAFFIC BARRIER
CONSTANT SLOPE BARRIER
MODIFIED THRIEBEAM BARRIER
W-BEAM BARRIER
WIRE ROPE BARRIER
NOTES:
1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS16 AND SPECIFICATION 304.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS (M2) SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.
TONKIN
HIGHWAY
MATCHLINE
CHA. 10200
CHA. 10450
EXISTING VEGETATION TO BE RETAINED
MC90
SQUAD CHECK
GATEWAY WA
TONKIN HIGHWAY
GREAT EASTERN HIGHWAY - ELSOOD
PLANTING PLAN
SHEET 11
01-080-LA-DG-0311
A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 3.0m WIDE RED ASPHALT PSP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE DAMPLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE DAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIEBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD NOTES AND SPECIFICATION 314.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS HATCHED GREEN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

METADATA

SQUAD CHECK

DISCIPLINE	NAME	SIGNATURE	DATE
ELECTRICAL			
ARBORICULTURAL			
CIVIL			
ROAD			
LANDSCAPE			

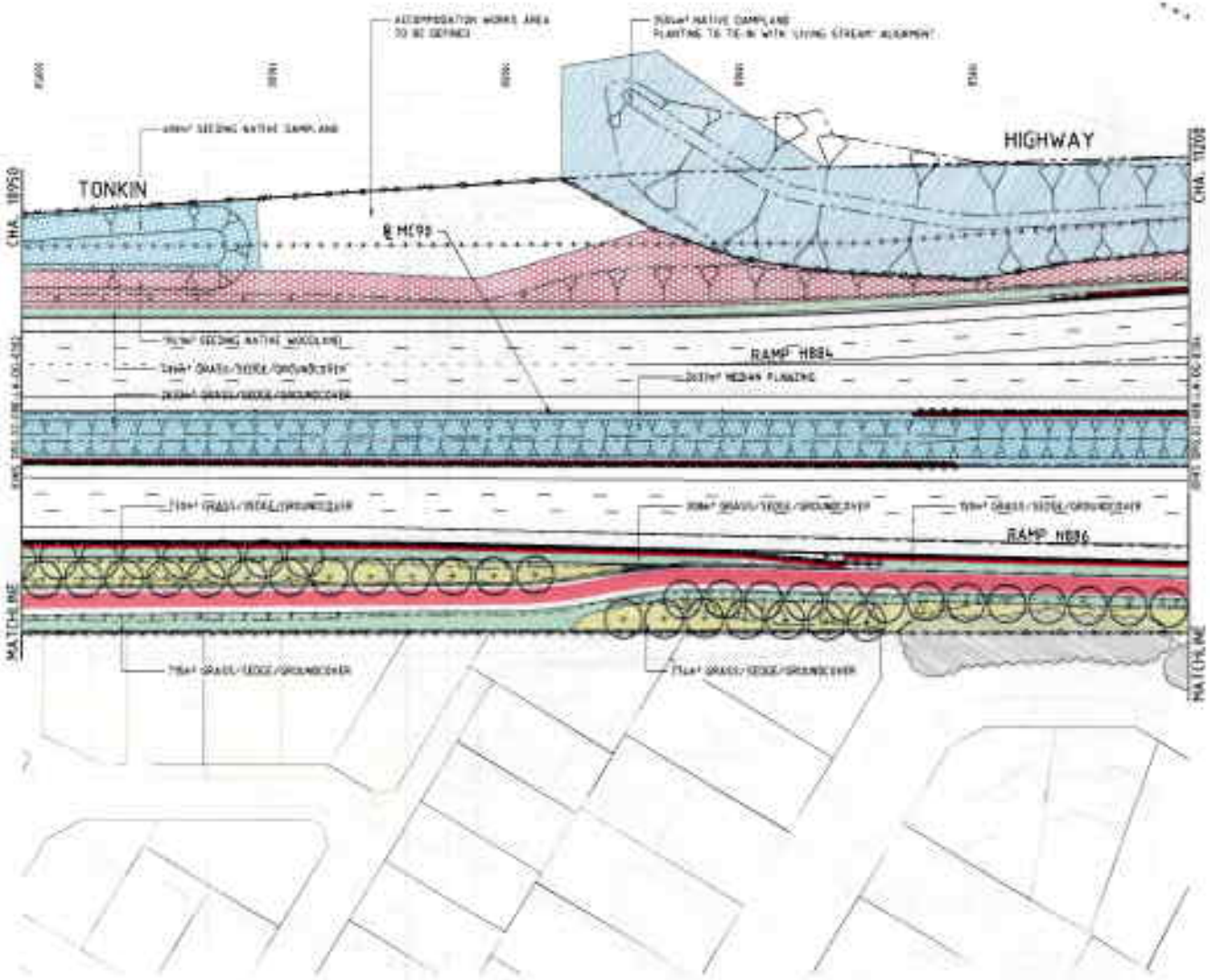
GATEWAY WA

TONKIN HIGHWAY
TONKIN HWY - LEACH HWY INTERCHANGE
PLANTING PLAN
SHEET 1

A1

02-080-LA-DG-0301

A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 3.0m WIDE RED ASPHALT PSP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE SWAMPLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE SWAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS REFER TO DETAILS
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIESEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS16 AND SPECIFICATION (SL).
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS AND SWARMS ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

MYAMYA

SQUAD CHECK

	NAME	SIGNATURE	DATE
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
MANAGEMENT			

GATEWAY WA

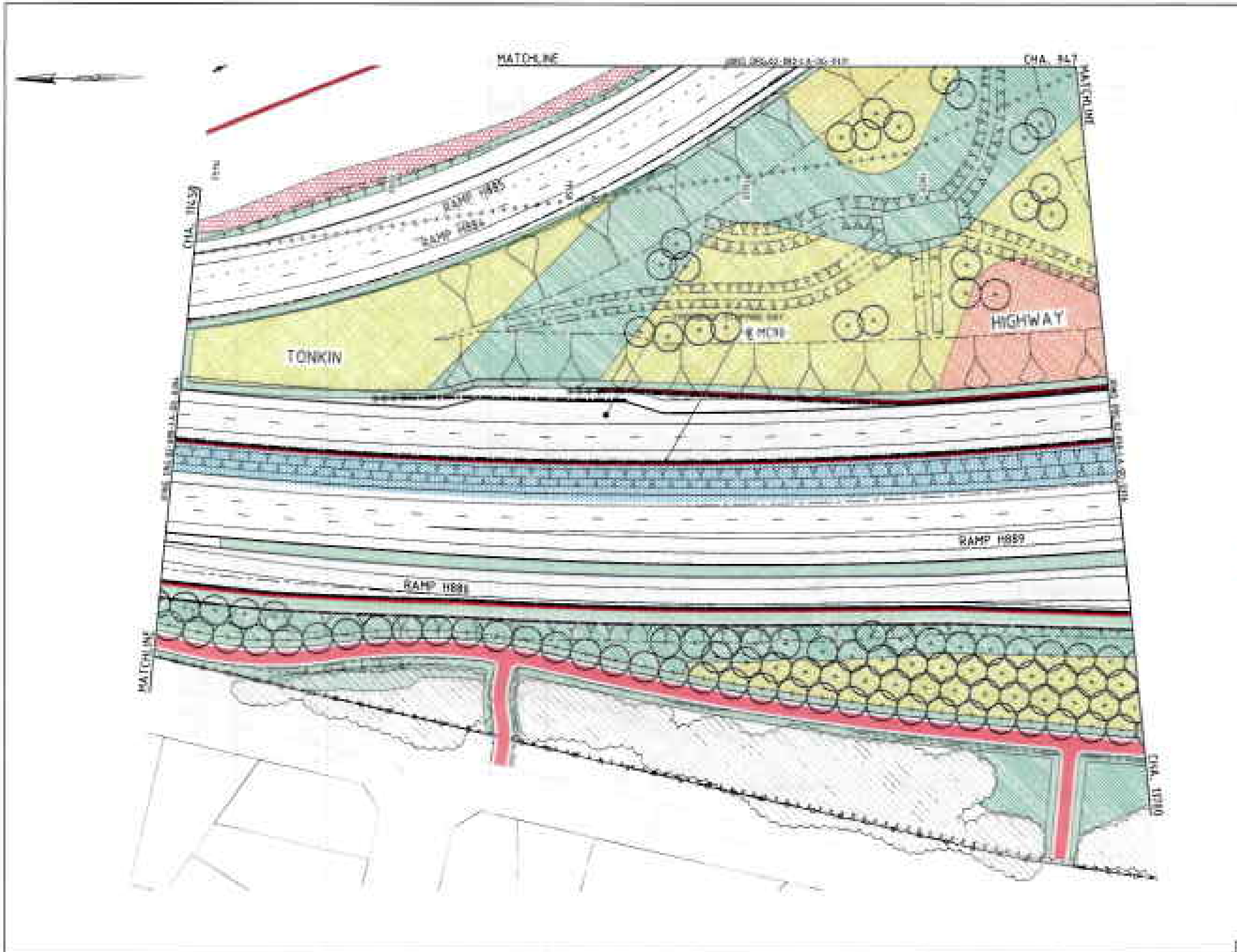
TONKIN HIGHWAY
TONKIN HWY / LEACH HWY INTERCHANGE
PLANTING PLAN
SHEET 2

A1

10%

02-080-LA-DG-0303

A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 3.0m WIDE RED ASPHALT PSP
- 3.0m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE DAMPLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE DAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIEBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES:

1. FOR CIVIL GENERAL NOTES REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS16 AND SPECIFICATION 701.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS [illegible] SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

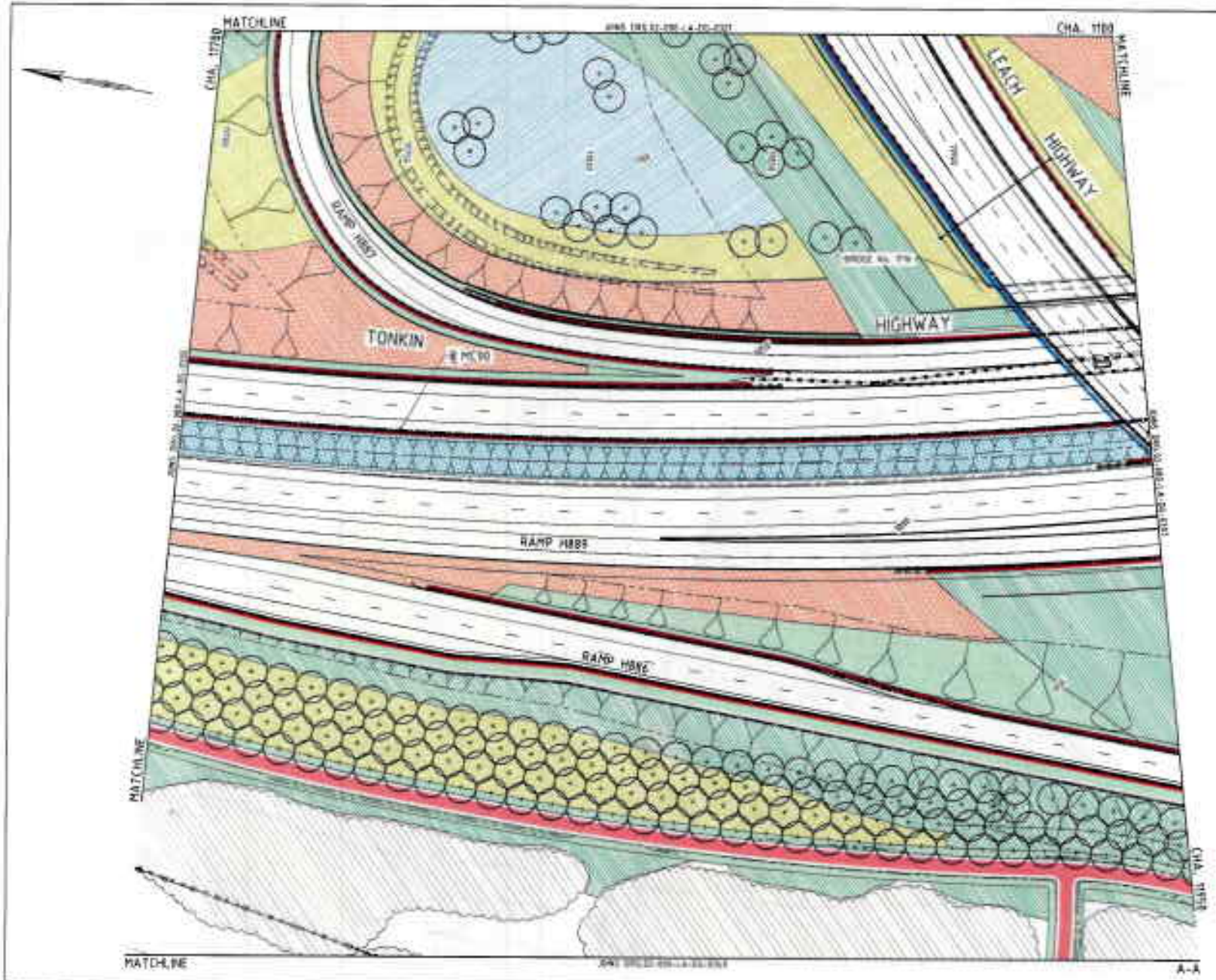
SQUAD CHECK

	NAME	SIGNATURE	DATE
ENGINEER			
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
DRAFTING			

GATEWAY WA

TONKIN HIGHWAY
TONKIN HWY - LEACH HWY INTERCHANGE
PLANTING PLAN
SHEET 5

02-080-LA-DG-0305 A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 3.5m WIDE RED ASPHALT PSP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE DAMPLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE DAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS76 AND SPECIFICATION 306.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS (m2) SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

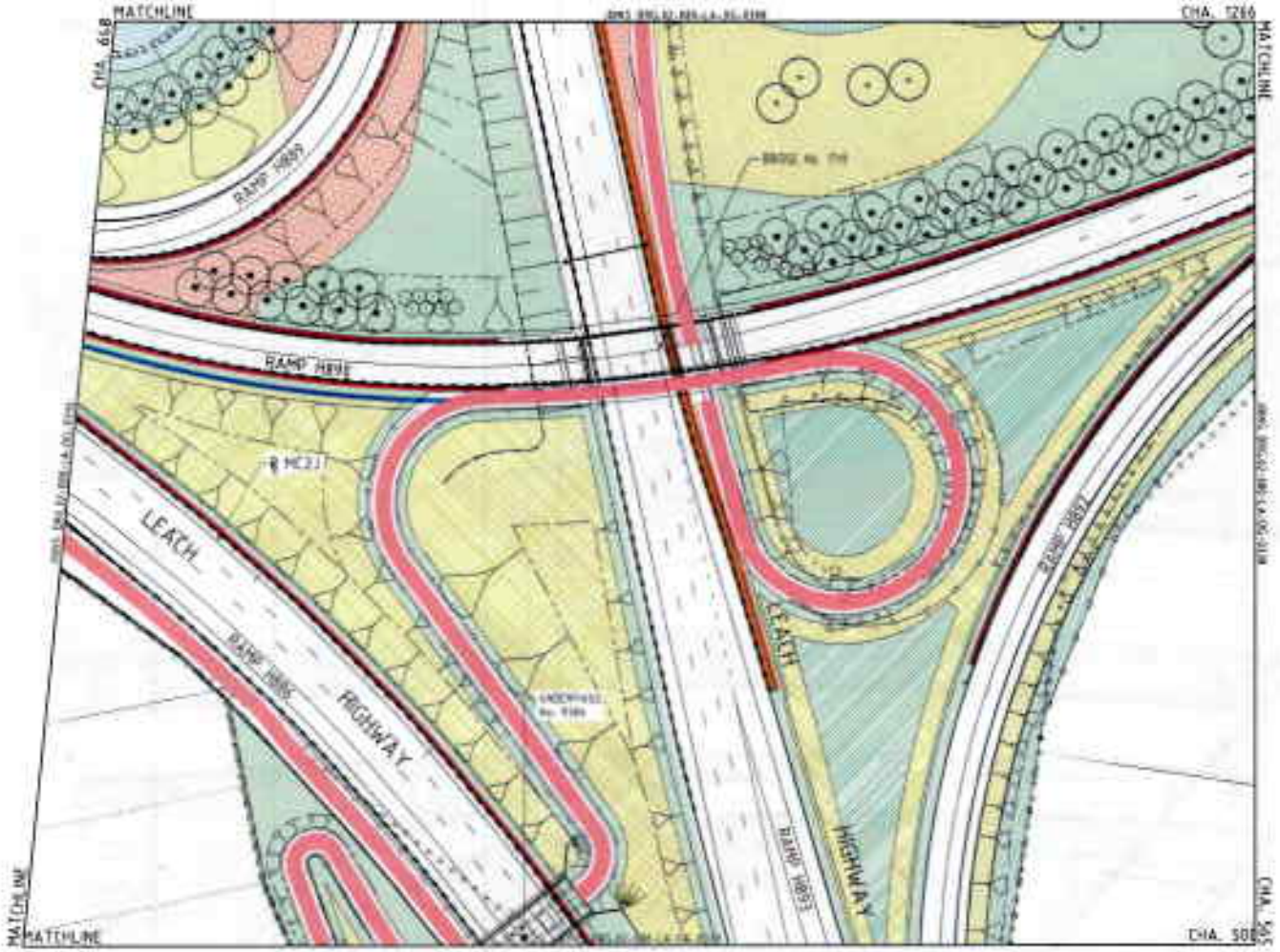
SQUAD CHECK

ENGINEER	NAME	SIGNATURE	DATE
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
ENVIRONMENT			

GATEWAY WA

TONKIN HIGHWAY
TONKIN HWY - LEACH HWY INTERCHANGE
PLANTING PLAN
SHEET 6

02-080-LA-DG-0306 A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 3.0m WIDE RED ASPHALT PSP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE GRASSLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE GRASSLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS REFER TO DETAILS
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS76 AND SPECIFICATION ISSUE.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS (all) SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

METADATA

SQUAD CHECK

ENGINEER	NAME	SIGNATURE	DATE
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
MANAGEMENT			

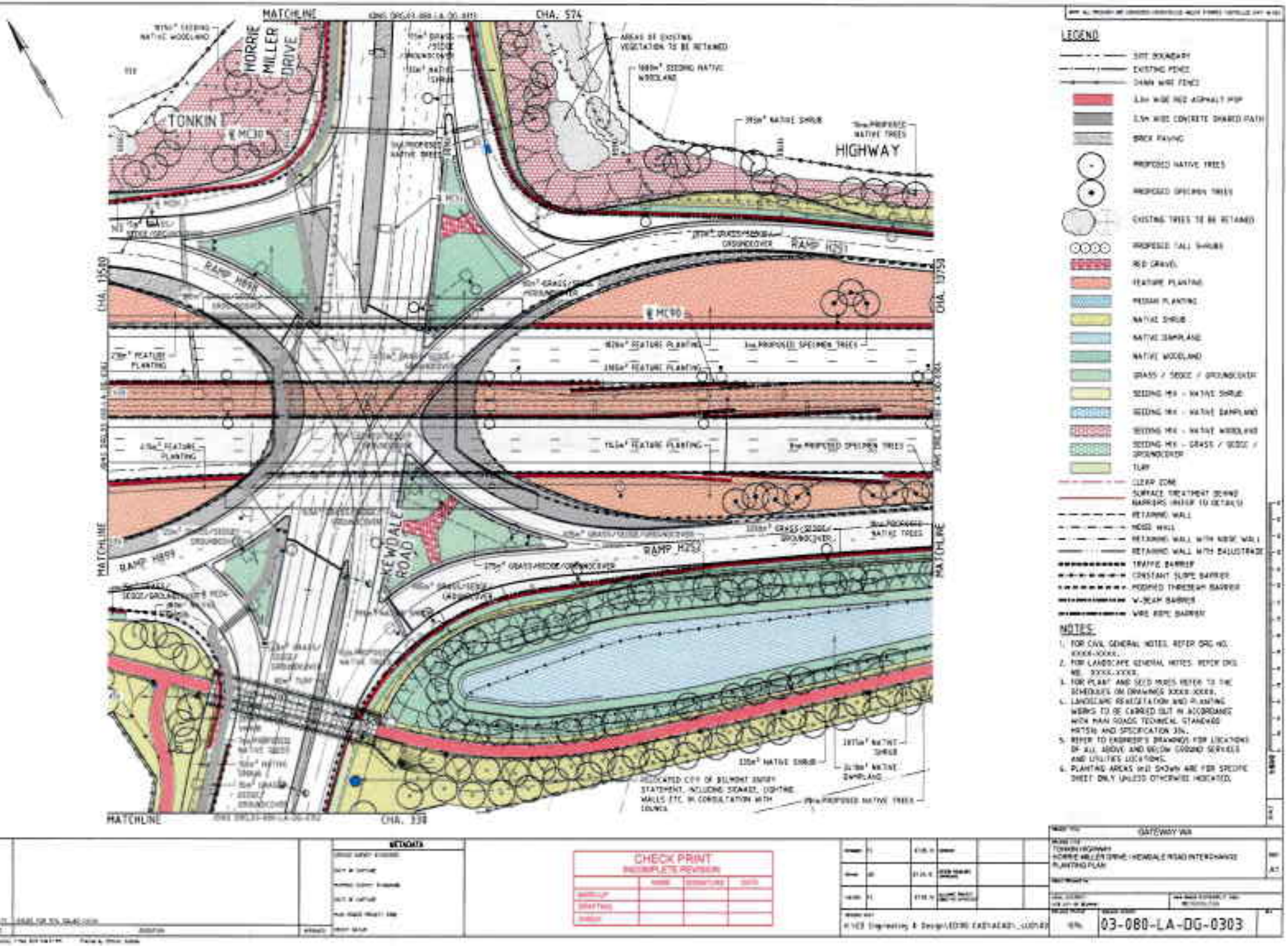
GATEWAY WA

TOWN HIGHWAY
TOWN HWY - LEACH HWY INTERCHANGE
PLANTING PLAN
SHEET 07

50%

02-080-LA-DG-0337

A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 2.5m WIDE RED ASPHALT PSP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE SWAMPLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE SWAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS UNDER 1:10 DETAILS
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIESBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARDS MRTS10 AND SPECIFICATION 33.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS and SHRUBS ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

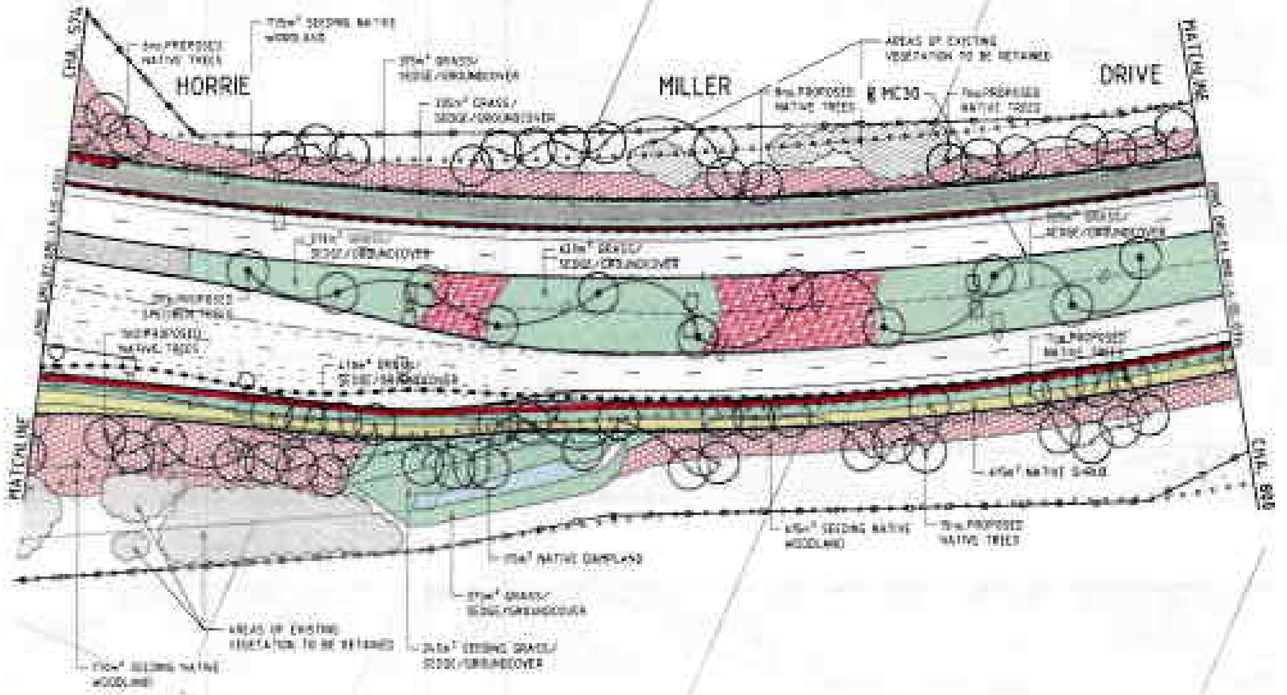
CHECK PRINT
INCOMPLETE REVISION

	NAME	SIGNATURE	DATE
DRAFTED			
DESIGN			

GATEWAY WA

TONKIN HIGHWAY
HORRIE MILLER DRIVE / KEWDALE ROAD INTERCHANGE
PLANTING PLAN

03-080-LA-DG-0303



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 3.0m WIDE RED ASPHALT PSP
- 3.0m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED GREENING TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE DAMPLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE DAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH BALUSTRADE
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIEBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS16 AND SPECIFICATION 314.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS AS SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

CHECK PRINT
INCOMPLETE REVISION

	NAME	SIGNATURE	DATE
MANAGER			
DRAFTING			
CHECKED			

METADATA

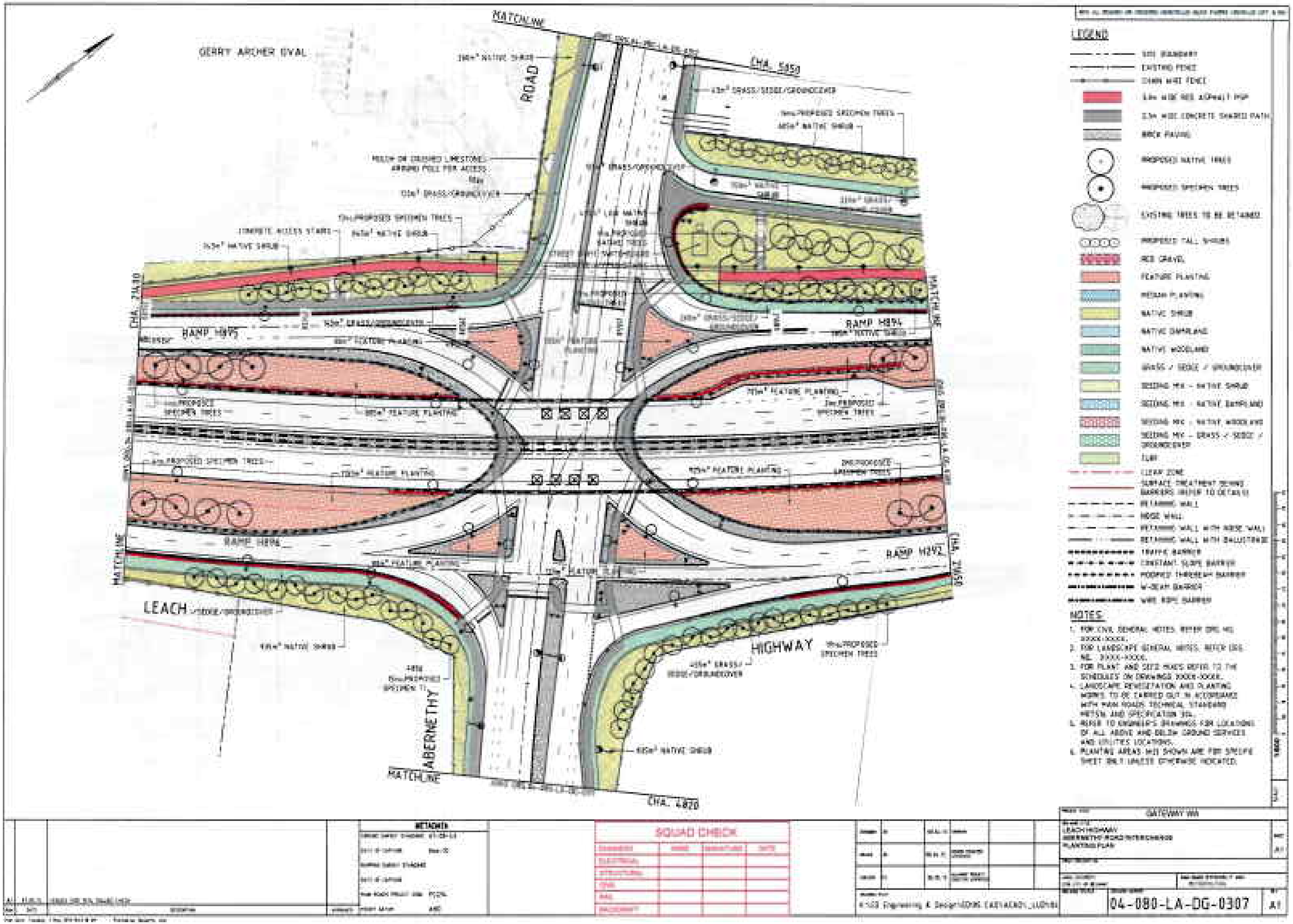
GATEWAY WA

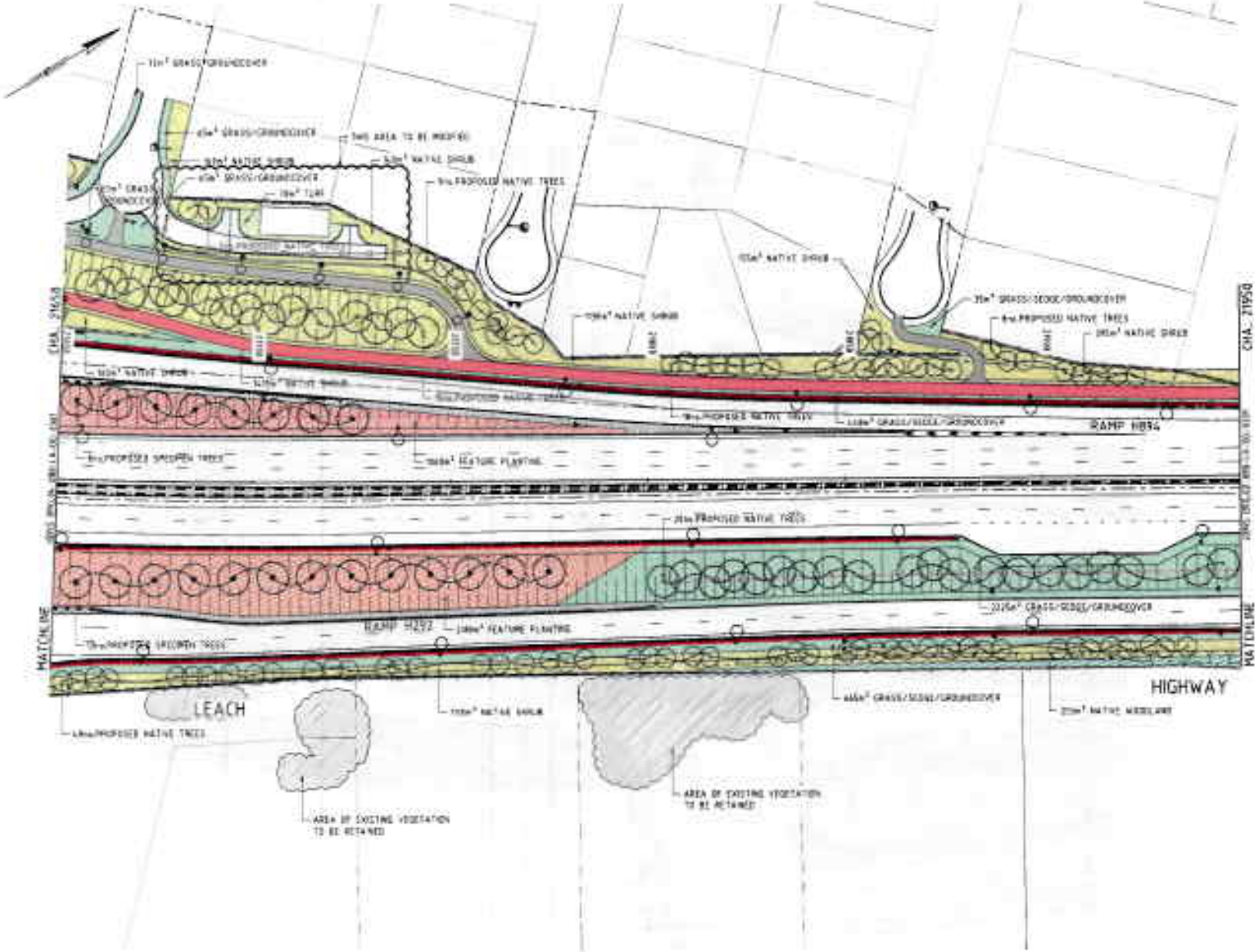
TONKIN HIGHWAY
HORRIE MILLER DRIVE / KEWDALE ROAD INTERCHANGE
PLANTING PLAN

A1

15%

03-080-LA-DG-0313


GERRY ARCHER OVAL
MATCHLINE
ROAD
CHA. 5850
CHA. 2H430
CHA. 2H650
CHA. 4820
RAMP H895
RAMP H894
RAMP H896
RAMP H292
LEACH
HIGHWAY
ABERNETHY
LEGEND
SITE BOUNDARY
EXISTING FENCE
CHAIN WIRE FENCE
3.0m WIDE RED ASPHALT PSP
3.0m WIDE CONCRETE SHARED PATH
BRICK PAVING
PROPOSED NATIVE TREES
PROPOSED SPECIMEN TREES
EXISTING TREES TO BE RETAINED
PROPOSED TALL SHRUBS
RED GRAVEL
FEATURE PLANTING
MEDIAN PLANTING
NATIVE SHRUB
NATIVE DAMPLAND
NATIVE WOODLAND
GRASS / SEDGE / GROUNDCOVER
SEEDING MIX - NATIVE SHRUB
SEEDING MIX - NATIVE DAMPLAND
SEEDING MIX - NATIVE WOODLAND
SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
TURF
CLEAR ZONE
SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
RETAINING WALL
NOISE WALL
RETAINING WALL WITH NOISE WALL
RETAINING WALL WITH BALUSTRADE
TRAFFIC BARRIER
CONSTANT SLOPE BARRIER
MODIFIED THRIEBEAM BARRIER
W-BEAM BARRIER
WIRE ROPE BARRIER
NOTES:
1. FOR CIVIL GENERAL NOTES REFER DRG NO. XXXXX-XXXXX.
2. FOR LANDSCAPE GENERAL NOTES REFER DRG NO. XXXXX-XXXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXXX-XXXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTSN AND SPECIFICATION 314.
5. REFER TO ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS AS SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.
SQUAD CHECK
GATEWAY WA
LEACH HIGHWAY
ABERNETHY ROAD INTERCHANGE
PLANTING PLAN
04-080-LA-DG-0307
A1



LEGEND

- SITE BOUNDARY
- EXISTING FENCE
- CHAIN WIRE FENCE
- 2.5m WIDE RED ASPHALT PSP
- 2.5m WIDE CONCRETE SHARED PATH
- BRICK PAVING
- PROPOSED NATIVE TREES
- PROPOSED SPECIMEN TREES
- EXISTING TREES TO BE RETAINED
- PROPOSED TALL SHRUBS
- RED GRAVEL
- FEATURE PLANTING
- MEDIAN PLANTING
- NATIVE SHRUB
- NATIVE DAMPLAND
- NATIVE WOODLAND
- GRASS / SEDGE / GROUNDCOVER
- SEEDING MIX - NATIVE SHRUB
- SEEDING MIX - NATIVE DAMPLAND
- SEEDING MIX - NATIVE WOODLAND
- SEEDING MIX - GRASS / SEDGE / GROUNDCOVER
- TURF
- CLEAR ZONE
- SURFACE TREATMENT BEHIND BARRIERS (REFER TO DETAILS)
- RETAINING WALL
- NOISE WALL
- RETAINING WALL WITH NOISE WALL
- RETAINING WALL WITH EMBANKMENT
- TRAFFIC BARRIER
- CONSTANT SLOPE BARRIER
- MODIFIED THRIEBEAM BARRIER
- W-BEAM BARRIER
- WIRE ROPE BARRIER

NOTES

1. FOR CIVIL GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
2. FOR LANDSCAPE GENERAL NOTES, REFER DRG NO. XXXX-XXXX.
3. FOR PLANT AND SEED MIXES REFER TO THE SCHEDULES ON DRAWINGS XXXX-XXXX.
4. LANDSCAPE REVEGETATION AND PLANTING WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MAIN ROADS TECHNICAL STANDARD MRTS70 AND SPECIFICATION SEL.
5. REFER TO SURVEYOR'S DRAWINGS FOR LOCATIONS OF ALL ABOVE AND BELOW GROUND SERVICES AND UTILITIES LOCATIONS.
6. PLANTING AREAS (m2) SHOWN ARE FOR SPECIFIC SHEET ONLY UNLESS OTHERWISE INDICATED.

METAONTA

SQUAD CHECK

DISCIPLINE	NAME	SIGNATURE	DATE
ELECTRICAL			
STRUCTURAL			
CIVIL			
RAIL			
MANAGEMENT			

GATEWAY WA

LEACH HIGHWAY/
KWINANA FREEWAY INTERCHANGE
PLANTING PLAN

A1

04-080-LA-DG-0308 A1

APPENDIX B: Baseline Site Species List

Family	Name
Apiaceae	Centella asiatica
Apiaceae	Platysace ramosissima
Apiaceae	Trachymene pilosa
Asparagaceae	Laxmannia ramosa
Asparagaceae	Laxmannia squarrosa
Asparagaceae	Lomandra caespitosa
Asparagaceae	Lomandra hermaphrodita
Asparagaceae	Lomandra preissii
Asparagaceae	Lomandra sericea
Asparagaceae	Thysanotus multiflorus
Asparagaceae	Thysanotus patersonii/manglesianus
Asparagaceae	Thysanotus thyrsoideus
Asteraceae	Helichrysum luteoalbum
Asteraceae	Siloxerus humifusus
Asteraceae	Trichocline spathulata
Casuarinaceae	Allocasuarina fraseriana
Casuarinaceae	Allocasuarina huegeliana
Casuarinaceae	Allocasuarina humilis
Celastraceae	Tripterococcus brunonis
Colchicaceae	Burchardia bairdiae
Colchicaceae	Burchardia congesta
Cupressaceae	Callitris pyramidalis
Cyperaceae	? Mesomelaena sp.
Cyperaceae	Caustis dioica
Cyperaceae	Cyathochaeta avenacea
Cyperaceae	Lepidosperma effusum
Cyperaceae	Lepidosperma leptostachyum
Cyperaceae	Lepidosperma pubisquameum
Cyperaceae	Lepidosperma squamatum
Cyperaceae	Mesomelaena pseudostygia
Cyperaceae	Mesomelaena stygia
Cyperaceae	Mesomelaena tetragona
Cyperaceae	Schoenus brevisetis
Cyperaceae	Schoenus curvifolius
Cyperaceae	Schoenus efoliatus
Cyperaceae	Schoenus pedicellatus
Cyperaceae	Tricostularia neesii
Cyperaceae	Tricostularia neesii var. ? elatior
Cyperaceae	Tricostularia neesii var. neesii
Dasypogonaceae	Calectasia narragara
Dasypogonaceae	Dasypogon bromeliifolius
Dasypogonaceae	Dasypogon obliquifolius
Dasypogonaceae	Kingia australis
Dilleniaceae	Hibbertia huegelii
Dilleniaceae	Hibbertia hypericoides
Dilleniaceae	Hibbertia racemosa
Droseraceae	Drosera erythrorhiza
Droseraceae	Drosera paleacea
Droseraceae	Drosera paleacea subsp. paleacea
Droseraceae	Drosera pallida
Droseraceae	Drosera stolonifera
Ericaceae	Astroloma stomarrhena

Family	Name
Ericaceae	Conostephium pendulum
Ericaceae	Leucopogon conostephioides
Ericaceae	Leucopogon propinquus
Ericaceae	Lysinema ciliatum
Ericaceae	Styphelia tenuiflora
Euphorbiaceae	Monotaxis grandiflora
Fabaceae	Acacia applanata
Fabaceae	Acacia huegelii
Fabaceae	Acacia lasiocarpa
Fabaceae	Acacia pulchella
Fabaceae	Acacia saligna
Fabaceae	Acacia sessilis
Fabaceae	Aotus gracillima
Fabaceae	Bossiaea 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	Euchilopsis linearis
Fabaceae	Eutaxia 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 manglesii
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
Hemerocallidaceae	Agrostocrinum hirsutum

Family	Name
Hemerocallidaceae	Agrostocrinum sp.
Hemerocallidaceae	Arnocrinum 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 bartlingii
Lauraceae	Cassytha racemosa forma racemosa
Loranthaceae	Nuytsia floribunda
Molluginaceae	Macarthuria keigheryi
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 laterita
Myrtaceae	Melaleuca nesophila
Myrtaceae	Melaleuca preissiana
Myrtaceae	Melaleuca rhaphiophylla
Myrtaceae	Melaleuca seriata
Myrtaceae	Melaleuca systena
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	Prasophyllum drummondii
Orchidaceae	Prasophyllum sp.
Orchidaceae	Pyrorchis nigricans
Pittosporaceae	Billardiera fraseri
Pittosporaceae	Billardiera sp.
Poaceae	Amphipogon turbinatus
Poaceae	Austrostipa flavescens
Poaceae	Austrostipa mollis
Poaceae	Neurachne alopecuroidea
Poaceae	Tetrarrhena laevis
Polygalaceae	Comesperma calymega
Polygalaceae	Comesperma confertum
Polygonaceae	Muehlenbeckia adpressa
Proteaceae	Adenanthos cygnorum
Proteaceae	Adenanthos sericeus
Proteaceae	Banksia attenuata
Proteaceae	Banksia dallanneyi
Proteaceae	Banksia dallanneyi var. dallanneyi
Proteaceae	Banksia grandis
Proteaceae	Banksia ilicifolia
Proteaceae	Banksia menziesii
Proteaceae	Banksia nivea
Proteaceae	Banksia sessilis
Proteaceae	Conospermum huegelii
Proteaceae	Conospermum undulatum
Proteaceae	Grevillea obtusifolia
Proteaceae	Hakea ceratophylla
Proteaceae	Hakea prostrata
Proteaceae	Hakea ruscifolia
Proteaceae	Hakea sulcata
Proteaceae	Hakea trifurcata
Proteaceae	Hakea undulata
Proteaceae	Hakea varia
Proteaceae	Isopogon drummondii
Proteaceae	Lambertia multiflora
Proteaceae	Persoonia elliptica
Proteaceae	Persoonia saccata
Proteaceae	Petrophile linearis
Proteaceae	Petrophile macrostachya
Proteaceae	Stirlingia latifolia
Proteaceae	Synaphea spinulosa subsp. spinulosa
Proteaceae	Xylomelum occidentale
Restionaceae	? Meeboldina sp.
Restionaceae	Alexgeorgea nitens
Restionaceae	Chaetanthus aristatus
Restionaceae	Chordifex sinuosus
Restionaceae	Cytogonidium leptocarpoides
Restionaceae	Desmocladus fasciculatus
Restionaceae	Desmocladus flexuosus
Restionaceae	Dielsia stenostachya
Restionaceae	Hypolaena exsulca

Family	Name
Restionaceae	Lepyrodia muirii
Restionaceae	Lyginia barbata
Restionaceae	Lyginia imberbis
Restionaceae	Meeboldina scariosa
Rubiaceae	Opercularia vaginata
Rutaceae	Boronia ramosa
Rutaceae	Boronia ramosa subsp. anethifolia
Rutaceae	Philotheca 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 riedlei