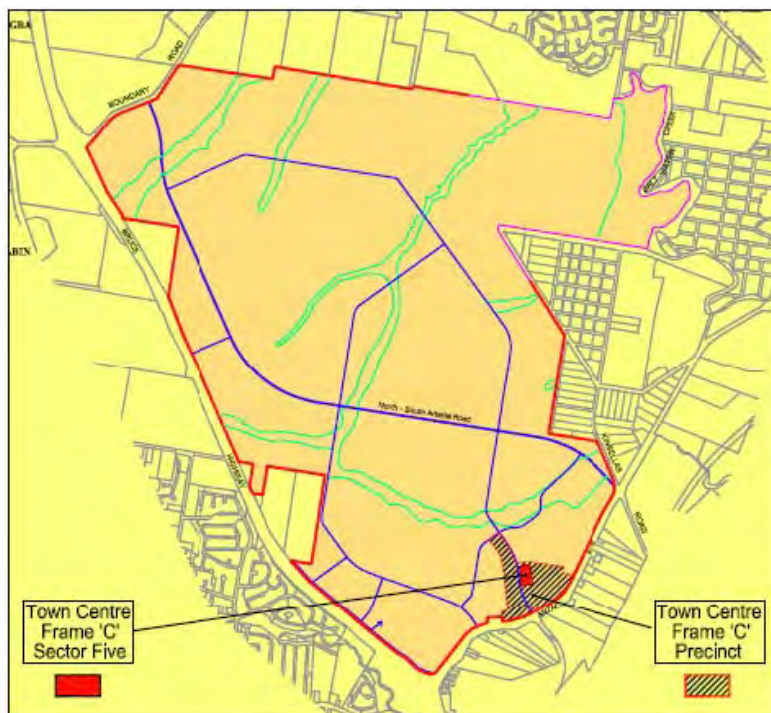


MANGO HILL INFRASTRUCTURE DEVELOPMENT CONTROL PLAN

Sector Plan 019-5000



Town Centre Frame 'C' Precinct Town Centre Frame 'C' Sector Five

09 August 2011



MANGO HILL INFRASTRUCTURE DEVELOPMENT CONTROL PLAN

Sector Plan No. 019-5000

for

**Town Centre Frame “C” Sector Five
Discovery Drive East**

**Town Centre Frame “C” Precinct
North Lakes Development**

9 August 2011

Contents

1.0 INTRODUCTION AND STATUTORY CONTEXT	4
2.0 LAND USE RIGHTS	5
3.0 DEVELOPMENT REQUIREMENTS & GUIDELINES	5
3.1 INTRODUCTION	5
3.2 DEVELOPMENT CONCEPT.....	5
3.3 DEVELOPMENT REQUIREMENTS	7
3.4 DESIGN & SITING MEASURES	8
3.5 LANDSCAPING / TOWNSCAPING.....	14
3.6 CARPARKING, SERVICE AREAS & LOADING DOCKS.....	16
3.7 SIGNAGE.....	19
4.0 ENVIRONMENTAL MANAGEMENT	20
5.0 SUBDIVISION REQUIREMENTS	20
6.0 INFRASTRUCTURE	21
6.1 INFRASTRUCTURE TO BE PROVIDED	21
6.2 INFRASTRUCTURE AFFECTED OR REQUIRED BY DEVELOPMENT OF THE SECTOR.....	23
6.3 HOW THE REQUIRED INFRASTRUCTURE RELATES TO THE INFRASTRUCTURE AGREEMENTS	23
7.0 DETAILED INFRASTRUCTURE PROGRAM	24
7.1 ESTIMATED DATE FOR PROVISION OF INFRASTRUCTURE	24
7.2 INTENDED PROVIDER	24
7.3 OTHER WORKS DEPENDENT ON INFRASTRUCTURE PROVISION.....	24
7.4 OTHER RELEVANT INFORMATION	24

Contents

FIGURES:

Figure	Reference	Date
1. Planning Context	CFC5-sectorfig 1	November 2005
2. Cadastral Boundaries	CFC5-sectorfig 2	November 2005
3. Precinct Plan Map	CFC5-sectorfig 3	November 2005
4. Sector Plan Map	CFC5-sectorfig 4	November 2005
5. Sector Landscape Plan	CFC5-sectorfig 5	November 2005
6. Indicative Plan of Subdivision	CFC5-sectorfig 6	November 2005
7. Road Layout	CFC5-sectorfig 7	November 2005
8. Water Supply Headworks	CFC5-sectorfig 8	November 2005
9. Sewerage Headworks	CFC5-sectorfig 9	November 2005

APPENDICES:

- A. Final Specification of Land Use for the Sector
- B. Streetscape / Character Images
- C. Plant List
- D. Bicycle Parking Requirements
- E. Town Centre Signage Guidelines
- F. Proposed Metes and Bounds Description

1.0 Introduction and Statutory Context

- 1.1 The Mango Hill Infrastructure Development Control Plan (DCP) provides a process for development of land in the DCP area and for the creation of a Sector within a Precinct and the preparation by the Principal Developer of a Sector Plan in accordance with the relevant provisions of the DCP.
- 1.2 This document constitutes the Sector Plan for the **Town Centre Frame “C” Sector Five – Discovery Drive East** (Sector Plan).
- 1.3 The location of the Sector within the DCP area is shown on *Figure 1 – Planning Context*. As illustrated on *Figure 2 – Cadastral Boundaries*, the Sector is bounded by:
- (i) Joyner Circuit to the north and east;
 - (ii) Gregor Street East to the south; and
 - (iii) Discovery Drive to the west.
- 1.4 The location of the Sector within the Precinct Plan area is shown on *Figure 3 – Precinct Plan Map*.
- 1.5 This Sector Plan is the code of development for the land in the Sector. In the event that this Sector Plan does not provide development requirements, then the Planning Scheme provisions relevant to the particular form of development apply.
- 1.6 The DCP, approved Precinct Plans and approved Sector Plans are to be read in conjunction with the planning scheme and Council’s local laws, policies and codes and to the extent the DCP, Precinct Plans and Sector Plans do not modify provisions of the Council’s planning scheme, local laws, policies and codes they will apply to the DCP area.
- 1.7 To the extent the provision of Council’s planning scheme, local laws, policies or codes are modified by the DCP, Precinct Plans or Sector Plans, then the provisions of the DCP, the Precinct Plans or Sector Plans will prevail.
- 1.8 Development in the Sector must comply with the provisions of the Sector Plan.

2.0 Land Use Rights

The final specification of land use rights for land in this Sector is contained in *Appendix A – Final Specification of Land Use for the Sector*.

3.0 Development Requirements & Guidelines

3.1 INTRODUCTION

Clause 2.4.2 of the DCP states that a Sector Plan specify the requirements for development and car parking and the guidelines for design and siting, landscaping and signage for land in the Sector.

3.2 DEVELOPMENT CONCEPT

The Sector is located within proximity to North Lakes College and surrounded by future commercial development. The development concept for this Sector is for generally low density, low-medium rise commercial development that relates physically and functionally with surrounding development. The Sector is to ultimately provide a range of opportunities for small scale retail, office and commercial services, and recreation and leisure premises which contribute to the range of facilities provided within and surrounding the Precinct.

Development along the Discovery Drive frontage is to have a high level of architectural design and is to address the street in order to contribute to its ‘boulevard’ character. Reciprocal left in/left out access arrangements are proposed for the Discovery Drive frontage to reinforce its primary role as a thoroughfare. To strengthen the urban form and provide visual focus points for the Sector, corner sites should define the street environment by incorporating a corner feature treatment. Treatments may include a reduced frontage setback distance, outward orientated building design to both road frontages increased building height, preferably by placement of a two storey element and, where appropriate, awnings and display windows.

Development in the Sector should:

- (i) provide a mixed and flexible environment to meet future employment and consumer needs;
- (ii) respond appropriately to community expectations of the facilities and services likely to be found in the town centre;
- (iii) ensure connectivity, integration and strong functional and architectural relationships with the commercial developments within the Sector, Precinct and the balance of the Town Centre;
- (iv) ensure that car parking areas in the Sector are enhanced by landscaped vehicular and pedestrian links. Potential conflict points between vehicular and pedestrian movements are to be minimised through considerate design;
- (v) provide shared vehicular access along Discovery Drive and where possible on

secondary access roads surrounding the Sector, in order to reduce interruption to traffic flow and to contribute to the connectivity and integration of built-form within the Sector;

- (vi) continue the ‘boulevard’ streetscape and landscaping theme along Discovery Drive to maintain an attractive entry to the residential community to the north of the Sector;
- (i) follow best practice environmental principles to minimise environmental harm and protect amenity of the area;
- (vii) promote a low speed, pedestrian compatible environment along Discovery Drive via signalised intersections and roundabouts; and
- (viii) where possible, provide opportunities for shared use of car parking and service areas between different developments and uses.

Figure 4 – Sector Plan Map is one illustration of how these requirements may be satisfied.

3.3 DEVELOPMENT REQUIREMENTS

3.3.1 In respect of every development in this Sector which involves the erection of a building, the person who undertakes that development or uses the site must as part of that development or use, unless already provided:

- (i) construct a full width pedestrian pavement to Council's specification for the full length of those road frontages required by Council to the development site;
- (ii) construct concrete kerb and channeling to the Council's specification for the full length of each road frontage to the development site;
- (iii) construct reinforced concrete industrial crossings to the Council's specification from the kerb and channeling to the property alignment of the development site at approved locations where vehicular access to the development site is required;
- (iv) provide drainage work specified by the Council as necessary in connection with the works set out above including debris traps where drainage discharges directly or indirectly to the lake and/or waterway system;
- (v) provide reticulated sewerage and water supply adequate for the purpose of the development by connection to the Council's services in accordance with the requirements of the Council; and
- (vi) bear the cost of any alteration necessary to public utility mains, services or installations involved in the construction of the works referred to in this clause.
- (vii) Any works within the road reserve must be undertaken in accordance with the North Lakes Town Centre design manual.

3.3.2 In respect of every development in this Sector the person who undertakes that development or uses the site must:

- (i) have all buildings designed by a registered architect and all landscaping designed by a qualified landscape architect;
- (ii) not impose a load on any public utility including the disposal of wastes, greater than that which is contemplated by the provisions of this Sector Plan; and
- (iii) not cause interference with the amenity of the area by the operation of machinery or electrical equipment, or from light, noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, grit, oil, dust, waste water, waste products, electrical interference or otherwise.

3.3.3 Requirements for Staging of Development

- (i) On completion of work in any stage, the remainder of the lot must be cleared of all rubble, debris and construction material and equipment and landscaped to the satisfaction of Council so as to be capable of being maintained.
- (ii) Each stage must form a coherent development and any future development sites must be provided with temporary landscaping, so the presentation of the lot to the street does not give a temporary or partially completed appearance.

3.4 DESIGN & SITING MEASURES

3.4.1 Building Setbacks

Building setbacks are to:

- (i) be generally no less than three (3) metres from the Discovery Drive road alignment. as shown on the Sector Plan Map;
- (ii) be generally no less than three (3) metres in all other streets not mentioned in section 3.4.1(i); and
- (iii) generally be developed up to any pedestrian thoroughfares (not being a road).

Refer to *Figure 4 - Sector Plan Map*, indicating required setback distances for the Sector.

3.4.2 Site Coverage

Site coverage and associated plot ratio are not restricted, provided the following elements are appropriately and adequately addressed by the design of the development:

- (i) architectural articulation and an appropriate level of design;
- (ii) well-presented frontages that provide a recognisable entrance;
- (iii) development is in context with, and visually compatible with the appearance of any neighbouring buildings;
- (iv) pedestrian facilities including pedestrian shelters are provided at ground level;
- (v) sufficient on-site car parking is provided.

3.4.3 Building Design

Buildings within the Sector must:

- (i) be in context with and visually compatible with the height, scale and bulk of surrounding development and streetscape patterns;
- (ii) not exceed the height of buildings on adjacent sites by more than two (2) storeys for those portions of the buildings adjacent to and visible from the street or pedestrian areas;
- (iii) not exceed five (5) storeys in height;
- (iv) where building heights exceed three (3) storeys in height, assessment of the need to setback the taller components of any building to create a podium must be undertaken. The assessment must address at least the impact of bulk and form on the streetscape and pedestrian environment in the immediate vicinity, as well as the impact of overshadowing;
- (v) include a combination of design elements to reduce building bulk, scale and mass, such as projections, recesses, openings and variations in light/shade and three dimensional form, banding in surfaces, external framing, entry structures, pergolas and subtle variations in parapet design;

- (vi) on corner allotments and where openings are not provided to building facades located within twenty (20) metres of the road alignment, maximise glazing at the ground floor level so as to display interior activity to the street;
- (vii) include windows at upper levels which provide for viewing of external areas;
- (viii) create an attractive presentation to all road frontages and external pedestrian thoroughfares through the use of clearly articulated and well proportioned access doorways, landscaping and generally no more than two (2) rows of carparking and a centre manoeuvring aisle in front of the building along Discovery Drive;
- (ix) orientate main entrances to address the street frontage or outdoor forecourt and provide well-lit pedestrian access and vehicular access to the street environment;
- (x) allow sensitive environmental responses to slope, access and integration requirements;
- (xi) be designed with attractive rooflines that complement the overall building design and include varying elements for visual interest;
- (xii) provide attractive facades and entries through the use of horizontal and vertical variations in the façade, and other design features;
- (xiii) complement the overall character of the Sector and the DCP area generally, whilst allowing corporate identity for tenants;
- (xiv) incorporate materials and colours that are not highly reflective to avoid unreasonable glare nuisance to surrounding development; and
- (xv) for all non-residential buildings greater than 2500m² within this Sector, an Energy Efficiency Report must be submitted with the application for the Development Permit for Building Works. This report is to be certified by a suitably qualified person that the building generally complies with the energy efficiency guidelines in this Sector Plan.

3.4.3.1 Building Design Guidelines

Appendix B – Streetscape / Character Images provides photographs which are indicative of some desirable and undesirable characteristics. They are not intended to represent the final architectural or landscaping design of development within this Sector.

Building design within the Sector is encouraged to:

- (i) be of low to medium rise, with a minimum height of two (2) storeys;
- (ii) include innovative contemporary building design derivative from Queensland building traditions, and designed to suit the climate, light and local culture;
- (iii) be designed to be multi-purpose and easily adapted for future changes;
- (iv) ensure that buildings relate physically and functionally with each other in terms of their architecture, location of major entries and any changes of level across the Sector; and
- (v) ensure that the design and location of any buildings or structures within the Sector take account of:
 - (a) topography and the preference to minimise site earthworks;
 - (b) drainage;
 - (c) soil conditions;
 - (d) services;
 - (e) orientation towards focal points and aspect to achieve energy savings;
 - (f) microclimate considerations;
 - (g) pedestrian movement patterns;
 - (h) vehicular access to avoid or minimise the conflict points with pedestrians;
 - (i) streetscape and landscape design;
 - (j) adjoining developments in terms of design;
 - (k) minimising the effect of overshadowing on pedestrian areas;
 - (l) the functioning of Discovery Drive, Joyner Circuit and Gregor Street East;
 - (m) landscape screening of retaining walls and other elements with low visual amenity; and
 - (n) views and vistas to prominent built and topographic features.

3.4.3.2 Material, Finish and Colour Guidelines

Building design within the Sector is encouraged to:

- (i) reflect a distinctive contemporary architectural style, with buildings sharing a palette of compatible finishes, colours and details that contribute to a strong sense of place;
- (ii) use materials and colours relating to those in the local environment, including the use of key character elements, for example, block stone work may be incorporated into the base of buildings to relate to the stone detailing within North Lakes. Other key character elements may include the use of timber detailing, earthy tones, heavy plinth bases and feature species planting;

- (iii) include the integrated use of elements such as timber, glass and tin;
- (iv) include corrugated pre-finished and coloured metal sheets for major roofing materials. The application of these materials must minimise any reflective nuisance to surrounding development;
- (v) incorporate brighter colour accents for minor detail elements such as window and door frames, columns, handrails, ornamental features and signage details; and
- (vi) incorporate materials that:
 - (a) are robust, durable and resistant to vandalism;
 - (b) present a suitable finish to pedestrian areas;
 - (c) incorporate walls which present as solid and permanent elements;
 - (d) are of a high quality, clean and free of defects;
 - (e) are low maintenance,
 - (f) assist with thermal performance and energy efficiencies, where practicable.

3.4.3.3 Design for Climate and Energy Efficiency Guidelines

Building design within the Sector is encouraged to:

- (i) collect and store roofwater for toilet flushing and landscape use;
- (ii) minimise water consumption through incorporation of flow restrictors, AAA rated water efficient taps, shower roses and dual flush (3/6 litre) cisterns;
- (iii) include the use of external shade structures, ventilated spaces, overhangs and screens to allow enjoyment of the outdoors while also providing relief from the sun, wind and rain;
- (iv) maximise ventilation by taking advantage of prevailing breezes and the use of adequate and effective insulation materials in roof cavities and wall spaces of buildings in order to minimise demands for energy required for air-conditioning;
- (vii) where possible, orientate buildings to respond to westerly sun exposure, northerly exposure and solar access in the winter;
- (viii) articulate and shade external walls, and particularly the longer external walls, with eaves, over-hangs, sills or other treatments to reduce the exposure to direct sunlight, heat and glare, while windows in external walls should be recessed or shaded wherever possible to achieve energy savings;
- (ix) restrict the use of highly reflective materials on external walls or windows as a means of minimising energy requirements and excessive sunlight, glare and heat into adjoining developments;
- (x) incorporate the use of instantaneous gas, solar hot water heaters, heat pumps and/or solar energy devices;
- (xi) implement energy efficient management systems for the building;
- (xii) where possible, use building materials with high insulation values particularly for roofs and walls;
- (xiii) provide cross-ventilation and operable windows where buildings are able to catch prevailing breezes;
- (xiv) minimize potential impacts of cold westerly winds in winter and limited

cooling breezes from the south in summer; and

- (xv) design and landscape car parking areas to reduce the impacts of reflected heat and glare into adjacent buildings, and to reduce the effects of heat storage during summer months.

3.4.4 Safety and Crime Prevention

The design and siting of any structures, landscaping, buildings and public spaces must:

- (i) avoid obscured corners and narrow or dead-end alleys;
- (ii) maximise the opportunity for casual surveillance of public spaces and car parking areas from surrounding buildings, roads and pedestrian areas;
- (iii) include lighting of public places; and
- (iv) include, for a use with a gross floor area of 2,500m² or more, an Environmental Design assessment such as Crime Prevention Through Environmental Design (CPTED) or similar crime prevention safety audit, which must be undertaken by applicants during the design phase and properly taken into account in the final design of the project. A copy of the assessment shall be provided to Council at the time of lodging each development application for a Material Change of Use. This assessment is to have due regard to the design and maintenance of buildings and external areas within the Sector, as well as the factors outlined in this sub-section.

3.4.5 Lighting & Glare

Lighting and Glare Management within the Sector must:

- (i) wherever possible, include architectural floodlighting of a building or space through the integration of the luminaries into the fabric of the building;
- (ii) ensure lighting systems are designed to prevent direct and/or reflected glare to surrounding areas. This applies particularly to disabling and uncomfortable glare to pedestrian and vehicular movement or at entrances, steps, stairs and pedestrian paths;
- (iii) ensure that where lighting is provided within landscaped areas, the choice and location of lighting allows for plant and tree growth and will not become obscured as the landscape matures;
- (iv) include safety lighting in open space and car parking areas that may be used at night-time;
- (v) ensure permanent strobe, laser, flashing, oscillating, moving or alternating lights are not permitted in locations within the Sector where they are likely to cause a nuisance;
- (vi) have regard to the efficiency of energy consumption in the design of lighting systems; and
- (vii) comply with the requirements of AS4282 – *Control of Obtrusive Effects of Outdoor Lighting*.

3.4.6 Plant & Equipment

The design and siting of plant and equipment must comply with the following requirements:

- (i) all air conditioning and ventilation plant and other equipment located on the roof or externally around the building are to be treated as an integral part of the building form and be suitably screened from view to match with surrounding materials;
- (ii) where lift motor rooms, plant rooms and the like are proposed, they are to be treated as an integral part of the building form in order to create a coherent roofscape;
- (iii) environmental management structures or control devices, such as gross pollutant traps, waste disposal bins, flues and the like are to be designed so as not to detract from the overall visual character of the town centre or the immediate area;
- (i) contain design elements and buffer treatments to control any obtrusive effects where it is likely to adversely affect residential amenity, visual aesthetics, public safety and traffic safety;
- (ii) if necessary, adopt effective air pollution mitigation measures to comply with the *Environmental Protection Act, Environmental Protection Policy (Air)* and other relevant legislation in relation to dust, smoke, fumes and gases, where necessary; and
- (iii) if necessary, adopt effective noise pollution mitigation measures to comply with the *Environmental Protection Act, Environmental Protection Policy (Noise)* and other relevant legislation, where necessary.

3.4.7 Telecommunications Equipment

Telecommunications equipment is to be:

- (i) generally co-located with other telecommunications equipment installed in the Sector;
- (ii) constructed in a form complementary to the façade and roofline of the building on which it is to be mounted; and
- (iii) where possible, coloured so as to blend in with the background of the building on which it is to be mounted.

3.4.8 Regrading

The earthworks approach for the Sector must:

- (i) ensure that changes of level at the site boundary allow non-discriminatory access to each allotment from the road frontage/s and to adjoining allotments, where possible;
- (ii) take into account the efficient management of earthworks;
- (iii) consider the visual impact of any batters and/or retaining walls along the Discovery Drive frontage;
- (iv) be generally in accordance with surrounding approved Sector Plans; and

- (v) achieve a high level of functional and visual integration between surrounding areas.

3.5 LANDSCAPING / TOWNSCAPING

3.5.1 Landscape/Townscape Concept

The landscape framework for the Sector is represented by the design principles shown indicatively on *Figure 5 – Sector Landscape Plan*.

3.5.2 Character

The Discovery Drive streetscape is to be consistently framed with appropriate landscape and canopy trees to continue the species-themed “boulevard” entry to North Lakes. Streetscape treatment along this frontage includes a planted median, generous footpaths, street trees, on-street parking and lighting. The “boulevard” is envisaged as a wide streetscape displaying a very open character. Street treatments and landscaping should clearly indicate the through-route nature of the road and give views to the parking entrances of development.

The landscape character of the secondary access roads within the Sector (Joyner Circuit and Gregor Street East) addresses the transitional nature of proposed secondary access roads to the through-route nature of Discovery Drive. Landscaping shall promote safety and low speeds, but with due concern for maintaining drivers’ sightlines. Landscaping may be required to buffer and screen functional elements of uses, such as car parking, along these frontages to reduce their impacts upon the amenity and visual character of the Sector.

The overall landscape character of the Sector is to be established by integrating plantings with the street lighting, furnishings, paving treatments, built form, materials and colours of development in the Sector. Landscaping is also required in private development sites to reinforce the landscaping proposed along street frontages.

3.5.3 Requirements

Landscaping in the Sector must:

- (i) correspond with the design principles illustrated on *Figure 5 – Sector Landscape Plan*;
- (ii) provide a minimum landscaped strip of three (3) metres along all street frontages of each lot within the Sector;
- (iii) be designed to complement and integrate with the landscaping and design character of adjoining Sectors and Precincts;
- (iv) include canopy trees, planted by the Principal Developer, generally with a minimum clear trunk of 1.8 metres planted at informal intervals within the road reserve of Discovery Drive and other streets adjoining this Sector. Street trees are intended to provide visual continuity to the street, reduce the road scale and provide shade to on-street car parking and adjacent pedestrian areas;

- (v) reduce the appearance of an expanse of car parking areas by providing advanced shade trees at the rate of not less than one (1) tree per six (6) parking spaces and by providing low plantings along car parking aisles which do not impact on drivers' sightlines;
- (vi) provide adequate landscaped areas so as to create a landscape setting and passive recreation space for development;
- (vii) allow for pedestrian linkages and landscape planting extending from entry points to development sites within the Sector to connect, where possible, through car park areas to the pedestrian pathway associated with internal driveways;
- (viii) be employed to reduce reflected glare from building facades;
- (ix) not compromise the safety of vehicles accessing sites within the Sector or in surrounding development;
- (x) be capable of efficient and effective maintenance;
- (xi) generally frame entry areas to sites;
- (xii) screen services such as electricity substations and transformers in a way that does not affect the streetscape;
- (xiii) delineate between the pedestrian and vehicular environments, as well as to provide some relief from headlight glare and visual monotony;
- (xiv) screen car parking areas from roads and other areas readily accessible to the public, but occasional views of key elements of the each proposed building may be provided; and
- (xv) where retaining walls or batters are required, provide a landscape buffer located clear of these works to reduce the impact of the wall if visible from a street. Retaining walls and batters must be of a scale and materials that complement the surrounding built environment while responding to landform.

3.5.4 Fencing

- (i). No fencing in proximity to the road boundaries is permitted. However, fencing associated with temporary construction or as part of staged construction is permitted t

3.5.5 Plant Species Guidelines

Planting within the Sector is encouraged to incorporate:

- (i) plant species themes that are consistent and complementary to surrounding development. The species of trees, shrubs, and groundcovers used within the Sector should be selected from the Plant List included in *Appendix C - Plant List*. Plants of similar characteristics may be substituted for a species in the Plant List, if approved by Council. The selection of landscape material is to be cognisant of safety considerations by excluding thorny or poisonous plants that may be hazardous;
- (v) the use of native species as the predominant plantings to visually reflect the original natural setting of the DCP area, as well as offer benefits of reduced maintenance and water requirements. Exotic and flowering species may be

used occasionally as feature planting, to announce entries to the Sector, to provide shade trees in public outdoor spaces, or as accents of colour and texture within the framework of native plant material; and

- (vi) planting densities and heights appropriate for particular areas such as vehicle sales yards, retaining walls and the like are to be shown on a Landscape Plan submitted as part of the Material Change of Use application.

3.6 CARPARKING, SERVICE AREAS & LOADING DOCKS

3.6.1 Carparking

Car parking in the Sector must:

- (i) be limited to the generalised carparking areas illustrated on *Figure 4 – Sector Plan Map*;
- (ii) be in accordance with the Planning Scheme requirements current at the time of lodgement of the material change of use application, the DCP and the Council's Design Manual. For the purpose of this calculation this Sector is considered to be included in a Local Business Zone. Should the Planning Scheme be amended or replaced the car parking requirements are to be calculated on a similar basis under the new document;
- (iii) as part of the total car parking requirements, provide not less than one (1) car park per fifty (50) spaces (or part thereof) for people with disabilities;
- (iv) be controlled to minimise its impact on the surrounding road network, any internal circulation and other development adjacent to the Sector;
- (v) provide safe pedestrian routes which focus on the connectivity between the individual site, adjacent development within the Sector, balance of the Town Centre Frame and Discovery Drive;
- (vi) ensure that pedestrian movement areas through car parks to a building are clearly defined;
- (vii) employee and customer bicycle parking spaces and the type of bicycle parking devices are to be generally in accordance with *Appendix D – Bicycle Parking Requirements*;

- (viii) one (1) shower cubicle with ancillary change room per ten (10) bicycle spaces required by 3.6.1(vi) above. Facilities may be utilised by both males and females provided adequate privacy and accessibility is ensured for both sexes; and
- (ix) if the demand for the bicycle spaces is not consistent with the table contained in *Appendix C*, Council, on a case by case basis, may permit a reduction of the number of end of trip facilities.

3.6.2 Access

The requirements for access are set out below:

- (i) indicative vehicular ingress and egress points from Discovery Drive are limited to the number of access points shown on the *Figure 4 – Sector Plan Map*. The design of this access must limit turning movements to left in / left out from this Sector. However, the location of the access points may vary along the road provided other access restrictions noted on *Figure 4* are not compromised;
- (ii) restrictions to vehicular access from a secondary access road have been noted indicatively on *Figure 4* by the inclusion of the “No vehicular access permitted” designation;
- (iii) vehicular access points at these locations should ensure no queuing occurs across pedestrian areas or causes interruption to traffic on the surrounding roads;
- (iv) Discovery Drive is to be developed as a vehicular traffic priority street;
- (v) the secondary access roads surrounding the Sector should be developed as a pedestrian-friendly environment with convenient pedestrian access and interaction, particularly to the education facility to the north of the Sector. This could be achieved by priority crossings for pedestrians and the inclusion of temporary kerb build outs and pedestrian refuges where appropriate; and
- (vi) provide convenient and safe pedestrian and cyclist access within or to development adjacent to the Sector and to public transport facilities. Such access is to be integrated with the path and street system;
- (vii) consideration must be given to the design and location of access points adjoining the Sector so as to minimise potential conflicts with car parking areas, pedestrian areas, paths, service areas, bus-stops and pick-up/set-down areas in association with the adjacent school;
- (viii) shared access arrangements between development sites are to be provided along Discovery Drive and where possible along the secondary access roads surrounding the Sector. For shared access points, external entry points to the Sector are to be connected to an internal vehicle circulation driveway to facilitate the distribution of traffic around the Sector;
- (ix) vehicular access lanes into the Sector are to generally be a maximum width of ten (10) metres and include at least one footpath of a minimum two (2) metres width;

- (x) adequate measures to achieve a high level of public safety on the shared access laneways / driveways is to be provided and, where appropriate, should include:
 - (a) good visibility at all pedestrian crossings and establishing pedestrian priority, where appropriate;
 - (b) pavement treatments which achieve a very low traffic speed, while permitting easy and even-surfaces for desirable walking conditions for pedestrians;
 - (c) finishes that are in keeping with existing finishes within the road or the road verge;
 - (d) suitable barrier treatments at the entrance points;
 - (e) the provision of continuous pedestrian access between buildings, car parks and pedestrian areas; and
 - (f) the provision of site and building illumination within car park areas, pedestrian areas and along pedestrian paths during the hours of operation of any component of the development and, at other times, by the provision of security lighting.
- (xi) pedestrian access points via car parking areas at the rear of any development should be clearly identified and designed to maximise safety and convenience; and
- (xii) access for all people including people with a disability is to be achieved by ensuring that development complies with Council provisions relating to access for people with disabilities.

3.6.3 Servicing Requirements

Development within the Sector must provide:

- (i) if required, loading zone parking which is to be accessed from the internal vehicle circulation areas;
- (ii) storage for refuse and recyclable materials which are suitably screened from circulation areas;
- (iii) service connection points incorporated into hard and soft landscaping areas;
- (iv) service connections that do not protrude from paving or driveways or cause any hazard for pedestrians or vehicles;
- (v) where appropriate, provide landscaping and other screening devices to undesirable views of service areas, loading bays, refuse areas and plant and machinery, within the Sector and in adjacent Sectors; and
- (vi) sharing of service areas, where possible.

3.7 SIGNAGE

Signage in the Sector must:

- (i) with respect to signage that identifies development within the Sector and associated development, be generally integrated with any frontage walls, entry statements or entry structures, if provided. This signage may be located along the frontage of Discovery Drive and all other streets adjoining this Sector;
- (ii) be limited to signage integrated into any proposed buildings;
- (iii) where appropriate, include directional signage for visitors which may include logos/names of the business;
- (iv) consist of high quality materials, form, scale and proportions and be coordinated to the built form throughout the Sector, while providing sufficient flexibility for corporate identification and marketing purposes;
- (v) ensure that lighting of any signage will not cause a nuisance to drivers or pedestrians;
- (vi) be visible, legible and not result in a cluttered or discordant streetscape;
- (vii) provide limited use of highly reflective finishes;
- (viii) incorporate professional and coordinated graphics;
- (ix) not permit bunting, streamers, sandwich boards and other low-quality, temporary, or opportunistic signs; and
- (x) ensure that any support structure or cabling to illuminate signs will not be visible.

3.7.1 Signage Guidelines

- (i) Signage guidelines are included at *Appendix E - Town Centre Signage Guidelines*. The Signage Guidelines are to be taken into consideration, along with other relevant issues, when considering matters regarding signs and architectural graphics of all kinds. They are not to be interpreted as giving rights to any number or types of signage.
- (ii) A Coordinated Signage Plan is to be submitted with any development application for Material Change of Use within this Sector. The Coordinated Signage Plan must distinguish between artworks/murals, on-site business advertising, animated signage, and “third party” advertising in terms of sign dimension, location, illumination, and animation on the face of the sign.

4.0 Environmental Management

There is no Environmental Management Plan having application to this Sector.

Management systems for land within the Sector must be implemented to ensure that the Objectives and Performance Indicators referred in the following sections of the Precinct Plan continue to be met throughout the life of the development and the use of the Sector:

- (i) Section 5.1 – Environmental Management Objectives;
- (ii) Section 5.2 – Stormwater Management Objectives; and
- (iii) Section 5.3 – Earthworks Management Objectives.

5.0 Subdivision Requirements

As shown in *Appendix F – Proposed Metes and Bounds Description* the total area of the Sector is 1.055 hectares.

While only one lot is shown on *Figure 6 - Indicative Plan of Subdivision* this site is expected to be further subdivided in accordance with the minimums outlined below and the requirements of this sector..

Access to each allotment within the Sector is to be from Discovery Drive and the secondary access roads surrounding the Sector

Reciprocal access easements are to be created in order to provide shared access for all adjoining allotments and future uses, where required.

The minimum area and frontage of any future proposed allotment within the Sector is to be as follows:

- (i) Minimum Lot Area 2,000m²
- (ii) Minimum Frontage Width 30m

6.0 Infrastructure

6.1 INFRASTRUCTURE TO BE PROVIDED

The infrastructure required to be provided by the Principal Developer to serve the Sector includes internal and external infrastructure provisions in accordance with the Rezoning Conditions, the Mango Hill Infrastructure Agreement 1999 (MHIA) and agreements made with the State Government in accordance with the DCP. These obligations are summarised as follows:

6.1.1 Roads

All roadworks required by the MHIA and where applicable Mango Hill Agreement – Main Roads (MHIA-MR) associated with this sector have been completed.

6.1.2 Water Supply

- (i) Reticulation systems along all internal roads to service all properties in the Precinct;
- (ii) Those sections of the mains shown on *Figure 8 – Water Supply Headworks*, necessary to service the anticipated demand in the Sector; and
- (iii) Make contribution towards water headworks and bulk water supply in accordance with the MHIA.

6.1.3 Sewerage

- (i) Trunk gravity main from the existing Council sewerage infrastructure to connect with each lot in the Sector as shown on *Figure 9 – Sewerage Headworks*; and
- (ii) Make contribution towards sewerage headworks supply in accordance with the MHIA.

6.1.4 Park

The requirements for park provision throughout the DCP area are provided for in the MHIA. No area within this sector will be dedicated as park.

6.1.5 Stormwater

- (i) The Principal Developer must comply with the provisions of the Stormwater Management Plans for Saltwater Creek and Tributary C as approved by Council and construct stormwater management works so far as they relate to this Sector.

- (ii) Stormwater management works so far as they relate to the Sector are to be provided in accordance with the MHIA, Council's Design Manual, the Stormwater Management Plan for Tributary C, including the construction of all drainage and landscaping works in Tributary C and the Stormwater Management Plan for Saltwater Creek.
- (iii) In addition, the Principal Developer is to construct stormwater drainage systems and stormwater management systems as required by the MHIA and the Environmental Protection (Water) Policy.

6.1.6 Electricity Supply, Lighting and Communications

- (i) Allow for underground electricity distribution to all properties within the Sector, by Energex or another appropriate supplier of electricity.
- (ii) Arrange for the provision of underground conduits along all road verges within the Sector and adjacent roads to meet the anticipated demands of the DCP area.
- (iii) Provide underground electricity to all properties within the Sector through Energex or another appropriate supplier of electricity and to Council standards.

- (iv) Provide public lighting to all roads, streets and if relevant, parks and other public areas and facilities within the Sector, along the secondary access roads (Gregor Street East and Joyner Circuit) and their intersections with Discovery Drive, constructed to relevant Australian Standards and in accordance with the requirements of Energex or alternative supplier of electricity and Council standards.
- (v) Provide high voltage electricity services to the Sector through Energex or another supplier of electricity and to Council standards.
- (vi) Provide all electricity services and distribution systems as underground services, including conduits along all road verges within the Sector and adjacent roads to meet the anticipated demand of the DCP area.

6.2 INFRASTRUCTURE AFFECTED OR REQUIRED BY DEVELOPMENT OF THE SECTOR

- (i) The development of the Sector may place demands on the following infrastructure:
 - (a) Roads external to the DCP area and the Sector;
 - (b) Water supply infrastructure;
 - (c) Sewerage infrastructure;
 - (d) Stormwater infrastructure;
 - (e) Parks;
 - (f) Community facilities;
 - (g) Electricity and gas supply;
 - (h) Communications systems; and
 - (i) State Government Infrastructure.
- (ii) The infrastructure described in clause 6.1 above, together with the obligations of the Principal Developer under infrastructure agreements will mitigate the adverse affects on the above infrastructure.

6.3 HOW THE REQUIRED INFRASTRUCTURE RELATES TO THE INFRASTRUCTURE AGREEMENTS

The infrastructure agreements describe the infrastructure that must be provided by the Principal Developer as part of its obligations to provide infrastructure, as envisaged by Chapter 12 of the DCP. The works described in clause 6.1 of this document are the Principal Developer's obligations under the rezoning conditions and the infrastructure agreements.

7.0 Detailed Infrastructure Program

7.1 ESTIMATED DATE FOR PROVISION OF INFRASTRUCTURE

The Principal Developer is to provide the infrastructure referred to in clause 6.1 of this document at times to satisfy the requirements of the MHIA. The majority of these infrastructure works have been completed during 2005;

7.2 INTENDED PROVIDER

The Principal Developer is to provide the infrastructure referred to in Section 6.1 at times to satisfy the requirements of the Rezoning Conditions and the MHIA which provides for the infrastructure to be constructed to meet the rate of development in the Sector.

7.3 OTHER WORKS DEPENDENT ON INFRASTRUCTURE PROVISION

No other works depend on the provision of the infrastructure specified in Section 6.1.

Council is to use its best endeavours, including its powers of resumption if lawful, to obtain all necessary rights to permit the construction of water and sewerage infrastructure if such infrastructure is constructed on land external to the DCP area over which Council does not have such rights.

7.4 OTHER RELEVANT INFORMATION

7.4.1 Estimated Water and Sewerage Demands

As required by the MHIA, the Principal Developer states as follows:

- (i) For the purpose of assessing water supply capacity, the estimated number of equivalent Tenements for this Sector is 14.2 ET (Area of Lots = 0.9481ha x 15ET/ha);
- (ii) For the purpose of assessing sewerage capacity, the estimated number of Equivalent Persons for this Sector is 28.4 EP (Area of Lots = 0.9481ha x 30EP/ha)
- (iii) if a future alternative use of the Sector imposes a greater demand on minimum water supply and sewerage infrastructure than assigned in an approved development site within this Sector, Council is to approve the alternative use provided the developer demonstrates that:
 - (a) to do so will not adversely impact on minimum water supply and sewerage infrastructure standards within the DCP area and elsewhere if considered appropriate by the Council's engineer having taken into consideration development approved in the DCP area at the time of an application and future development in the DCP area as provided for by the DCP;

- (b) the principal developer has confirmed, in writing, that the increase demand will not prevent servicing the total number of ETs or EPs provided in the MHIA; and

In the event the developer satisfies Council of the requirements in (a) and (b) above, the Council will require the payment of headworks charges for ETs and EPs not already paid in respect of the proposed development.

APPENDIX A

FINAL SPECIFICATION

OF LAND USE

FOR THIS SECTOR

**FINAL SPECIFICATION OF LAND USE
(TOWN CENTRE FRAME 'C' PRECINCT)
FOR TOWN CENTRE FRAME 'C' SECTOR FIVE**

Purposes for which premises may be erected or used without the consent of Council (Permitted Development) COLUMN A	Purposes for which premises may be erected or used without the consent of Council subject to conditions (Permitted Development subject to conditions) COLUMN B	Purposes for which premises may be erected or used only with the consent of Council (Permissible Development) COLUMN C	Purposes for which premises may not be erected or used (Prohibited Development) COLUMN D
Self Assessable	Code Assessable	Impact Assessable Development	
Caretaker's residence Local utilities Park	Amusement premises Car park Car wash Catering premises Commercial Services Educational establishment Entertainment library Hardware centre Indoor Recreation Licensed Club <300m ² GFA Office Restaurant Retail nursery Shop <300m ² GFA Technology Industry Tourist Facility Vehicle hire depot	Any other Use not listed in Column A, B or D	Adult product shop Agriculture Air strip Animal husbandry Aquaculture Bulk garden supplies Camping grounds Caravan park Cattery Cemetery Concrete batching plant Contractor's depot Correctional institution Crematorium Dairy Extractive industry Fuel depot General industry Hazardous industry Heavy vehicle parking Heavy vehicle sales Host farm Junk yard Kennels Lot feeding Motor sport or shooting Piggery Poultry farm Rural industry Shopping centre >1,500m ² GLA Showground Simulated conflict Stable Stock sales yard Transport terminal Transportable home village Turf farming

APPENDIX B

STREETSCAPE / CHARACTER IMAGES

**NORTH LAKES DEVELOPMENT
STREETSCAPE / CHARACTER IMAGES
TOWN CENTRE FRAME “C” SECTOR FIVE (SECTOR PLAN 019-5000)**



Image 1 – Acceptable

Innovative contemporary building design. Includes integrated use of elements such as block work, glass and tin and horizontal and vertical variations in the façade for visual interest.



Image 2 – Acceptable

Attractive, clearly identified and defined entry which allows for pedestrian linkages and landscape planting extending from carparking areas to development.



Image 3 – Acceptable

Landscaping along carparking aisles and between carparking spaces reduces the appearance of an expanse of carparking areas.



Image 4 – Acceptable

Where buildings are proposed to be located at the corner, an outward orientated building design is required and where appropriate, generous footpaths, awnings, display windows and a high quality streetscape urban design character.

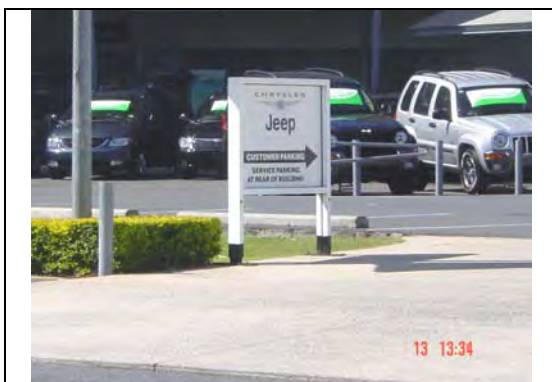


Image 5 - Acceptable

Directional signage can include business logo.

Unacceptable

Signage should be integrated with landscaping frontage treatment.



Image 6 - Acceptable

Varied roofline and integration of signage into built form.

Unacceptable

Ill-defined access and lack of landscaping.



Image 7 – Acceptable

Convenient and safe pedestrian and cyclist access within or to development adjacent to the Sector. Such access is to be integrated with the path, carpark and street system.



Image 8 – Unacceptable

Multiple signs and repetition.



Image 9 - Unacceptable

Incoherent layout and access arrangement with no landscaping to soften and enhance the built form. Unattractive built form and roofscape that does not provide visual relief or provide visual interest for passers by.



Image 10 - Unacceptable

Inappropriate streetscape treatment due to lack of landscaping and signage clutter and exposed carparking.



Image 11 – Acceptable

Windows overlooking car park and building provides a variety of architectural design elements that relieves building scale and bulk such as eaves and recesses. **Unacceptable** – No landscaping within car park area.



Image 12 – Acceptable

Architectural features, building design and rooflines that are compatible with residential development in terms of height, scale and bulk, complement the overall building design and include varying elements for visual interest.

APPENDIX C

PLANT LIST

**Appendix C: Indicative Plant Schedule -
Town Centre Frame "C" – Discovery Drive East– Sector Five**

Botanical Name	Common Name
Trees & Palms	
Acmena smithii	Lilly Pilly
Agathis robusta	Kauri Pine
Allocauarina littoralis	Black She Oak
Allocauarina torulosa	Forest She Oak
Araucaria cunninghamia	Hoop Pine
Archontophoenix cunninghamia	Pickabean Palm
Backhousia citriodora	Lemon Scented Myrtle
Backhousia myrtifolia	Carrol
Banksia integrifolia	Coast Banksia
Barklya syringifolia	Crown of Gold Tree
Brachychiton acerifoliun	Flame Tree
Brachychiton rupestre	Bottle Tree
Buckinghamia celsissima	Ivory Curl Flower
Callistemon salignus	Pink Tips
Callistemon viminalis	Weeping Bottlebrush
Callitris columellaris	Bribie Island Pine
Cassia fistula	Golden Shower Tree
Cassia javanica/Cassia siamea	Cassia
Castanospermum australe	Black Bean
Casuarina cunninghiana	River She Oak
Casuarina glauca	Swamp She Oak
Cupaniopsis anacardioides	Tuckeroo
Elaeocarpus eumundii	
Eucalyptus citriodora	Lemon Scented Gum
Eucalyptus ptychocarpa	Swamp Bloodwood
Eucalyptus curtisii	Plunkett Mallee
Euodia elleryana	Pink Euodia
Ficus Hillii	Hill's Fig
Ficus macrophylla	Moreton Bay Fig
Ficus rubignosa	Port Jackson Fig
Flindersia australis	Crows Ash
Flindersia pimenteliana	Flindersia
Flindersia schottiana	Bumpy Ash
Grevillea robusta	Silky Oak
Harpullia pendula	Tulipwood
Hymenosporum flavum	Native Frangipanii
Jacaranda mimosifolia	Jacaranda
Lagerstroemia indica	Crepe Myrtle
Livistona australis	Livistona
Livistona decipiens	Weeping Cabbage Palm
Livistona nitida	Livistona
Lophostemon confertus	Brush Box
Lophostemon suaveolens	Swamp Box
Melaleuca linariifolia	Snow in Summer
Melaleuca leucadendron	Small Leaved Paperbark
Melaleuca quinquenervia	Broadleafed Paperbark
Metrosideros queenslandicus	Queensland Golden Myrtle
Oreocallis sp. nova (wickhamii)	Tree Waratah
Peltophorum pterocarpus	Yellow poinciana
Phoenix canariensis	Canary Island Palm

**Appendix C: Indicative Plant Schedule -
Town Centre Frame "C" – Discovery Drive East– Sector Five**

Botanical Name	Common Name
Trees & Palms	
Podocarpus elatus	Brown Pine
Roystonea regia	Cuban Royal Palm
Syzygium australe	Scrub Cherry
Syzygium franchisee	Giant Water Gum
Syzygium jambos	Rose Apple
Syzygium leuhmanii	Small Leaved Lilly Pilly
Syzygium paniculatum	Dwarf Magenta Cherry
Tristaniopsis laurina	Water Gum
Waterhousia floribunda	Weeping Myrtle
Xanthostemon chrysanthus	Golden Penda
Shrubs	
Baeckea sp. Mt Toza	Dwarf Baeckea
Baeckea virgata	Twiggy Myrtle
Baeckea virgata dwarf	Dwarf Baeckea
Banksia Birthday Candles	Dwarf Banksia
Banksia ericifolia	Heath Banksia
Banksia integrifolia	Coastal Banksia
Banksia robur	Swamp Banksia
Banksia spinulosa var collina	Hairpin Banksia
Callistemon Dawson River	Dawson River
Callistemon Little John	Little John
Callistemon Ned Kelly	Ned Kelly
Callistemon pachyphyllus	Bottlebrush
Cyathea australis	Rough Tree Fern
Gardenia Florida	Double Gardenia
Grevillea "Coconut Ice"	Coconut Ice
Grevillea "Majestic"	Majestic
Grevillea "Robyn Gordon"	Grevillea
Grevillea "Superb"	Superb
Grevillea banksii	Red Silky Oak
Grevillea Honey Gem	Honey Gem
Grevillea Ned Kelly	Ned Kelly
Hibiscus rosa sinensis	Hibiscus
Hovea acutifolia	Pointed Leaf Hovea
Leptospermum flavescens	Tantoon Tea Tree
Leptospermum petersonii	Lemon Scented Tea Tree
Leptospermum Pink Cascade	Pink Cascade
Melaleuca linariifolia Snowflake	Dwarf Tea Tree
Murraya paniculata	Orange Jessamine
Pittosporum revolutum	Brisbane Laurel
Pittosporum undulatum	Mock Orange
Syzygium Blaze	Dwarf Lilly Pilly
Syzygium Elite	Compact Lilly Pilly
Syzygium Tiny Trev	Dwarf Lilly Pilly
Tibouchina jules	Tibouchina
Westringea fruticosa	Wynyabbie Gem

**Appendix C: Indicative Plant Schedule -
Town Centre Frame "C" – Discovery Drive East– Sector Five**

Botanical Name	Common Name
Groundcovers	
Agapanthus africanus	Lily of the Nile
Agapanthus orientalis	Lily of the Nile
Agapanthus Peter Pan	Dwarf Agapanthus
Anigozanthos hybrids	Kangaroo Paws
Blechnum cartilagineum	Fern
Cissus rhombifolium	Grape Ivy
Cissus Ellen Danica	Grape Ivy
Crinum pendunculatum	River Lily
Dianella revoluta	Flax Lily
Dietes bicolor	Japanese Iris
Dietes grandiflora	Japanese Iris
Evolvulus pilosus	Blue Sapphire
Gardenia radicans	Dwarf Gardenia
Grevillea Bronze Rambler	Bronze Rambler
Grevillea Royal Mantle	Prostrate Grevillea
Hardenbergia violacea	Purple Coral Pea
Hardenbergia violacea Bushy Blue	Bushy Blue
Helichrysum ramosissimum	Yellow Buttons
Hemerocallis species	Day Lily
Hibbertia dentata	Toothed Guinea Flower
Hibbertia scandens	Snake Vine
Liriope "Evergreen Giant"	Liriope
Lomandra hystrix	Creek Mat rush
Lomandra longifolia	Mat Rush
Lomandra multiflora	Long Leaved Mat Rush
Myoporum ellipticum	Creeping Boobialla
Myoporum parvifolium	Myoporum
Pittosporum Miss Muffet	Dwarf Pittosporum
Pittosporum tobira	Miss Muffet
Viola hederacae	Native Violet
Zierra Carpet Star	Carpet Star
Grasses	
Cynodon dactylon	Green Couch
Danthonia induta	Wallaby Grass
Digitaria didactyla	Blue Couch
Greenlees Park	Hybrid Couch
Poa australis	Native Poa
Vines	
Jasminum polyanthum	Jasmine
Pandorea pandorana	Wonga Wonga Vine
Pandorea jasminoides	Bower of Beauty
Trachelospermum jasminoides	Variegated Star Jasmine
Trachelospermum jasminoides	Star Jasmine

APPENDIX D

Bicycle Parking Requirements

**BICYCLE PARKING REQUIREMENTS
(TOWN CENTRE FRAME 'C' PRECINCT)
FOR TOWN CENTRE FRAME 'C' SECTOR FIVE**

Land use	Employee Bicycle Parking spaces	Class	Visitor/Shopper Bicycle Parking spaces	Class
Amusement premises	1 space per 4 employees	2	2 plus 1 per 50m ² GFA	3
Car park	1 space per 750m ² GFA	1	1 space per 50 car parking spaces	3
Car wash	1 space per 750m ² GFA	2	N/A	
Catering premises	1 space per 100m ² GFA public area	2	2 spaces	3
Commercial services	1 space per 200m ² GFA	2	1 space per 750m ² GFA over 1000m ² GFA	3
Educational establishment	1 space per 100 full time students	1 or 2	1 space per 100 full time students	3
Entertainment library	1 space per 300m ² GFA	2	1 space per 200m ²	3
Hardware centre (associated with an existing building)	1 space per 300m ² GFA	2	1 space per 200m ²	3
Indoor Entertainment	1 space per 4 employees	1 or 2	1 space per 200m ² GFA	3
Office	1 space per 200m ² GFA	2	1 space per 750m ² GFA over 1000m ² GFA	3
Restaurant	1 space per 100m ² GFA public area	1 or 2	2 spaces	3
Retail nursery (associated with an existing building)	1 space per 300m ² GFA	1 or 2	1 space per 200m ² GFA	3
Shop < 300m ² GFA	1 space per 300m ² GFA	1 or 2	1 space per 200m ²	3
Technology industry	1 space per 300m ² GFA	1 or 2	1 space per 200m ²	3
Tourist facility	1 space per 300m ² GFA	1 or 2	1 space per 200m ²	3
Vehicle Hire Depot	1 space per 750m ² GFA (excluding outdoor vehicle display area)	2	1 space per 200m ²	3
Notes:-				
1. GFA – Gross floor area, as defined in the DCP;				
2. The provision of bicycle spaces recommended in the table may be staged initially depending on the demand for use, however space should be set aside to allow 100% provision in the event that the full demand for bicycle parking is realised.				

Types of Parking Devices

Class	Security Level	Description	Main User Type
1	High	Fully enclosed individual lockers	Bike and ride commuters at railway and bus stations.
2	Medium	Located compounds fitted with Class 3 facilities. Communal access using duplicate keys or electronic swipe cards	Regular employees, students, regular bike and ride commuters.
3	Low	Facilities to which the bicycle frame and wheels can be locked	Shoppers, visitors to public offices, places of employment where there is security supervision of the parking facilities.

APPENDIX E

TOWN CENTRE FRAME SIGNAGE GUIDELINES



NORTH LAKES TOWN CENTRE FRAME SIGNAGE GUIDELINES

1.0 OBJECTIVES

The objectives of the signage standards for North Lakes are:

- (i) To implement design standards consistent with the existing and future character of North Lakes
- (ii) To ensure that signs and advertisements complement the attractiveness, safety, legibility and amenity of the North Lakes environment, both day and night
- (iii) To support the role of signs and advertising as an important factor in the marketing of North Lakes and in identifying the commercial character in areas of the development.

2.0 DEFINITIONS

Animated Signage:

An animated sign is an advertisement with a changing display, such as flashing or chasing bulbs, or any other non-static illuminated displays.

Third Party Advertising:

A “third party” advertising sign is an advertisement for a business not conducted on the land on which the sign is located, or a commodity not available on that land, and includes an advertisement for a particular brand of product sold or distributed from the premises. However, an advertising sign which incorporates the North Lakes logo as an integral element of the signage, or a sign which includes only a generic reference to the type of product available on the land is not a “third party” advertising sign in terms of the inclusion of the North Lakes logo or the generic product reference.

On- Site Business Advertising:

An on-site business advertising sign is an advertising sign which is limited in its content to the name of a business premises and the name and services offered by the occupants of the business premises. An on-site business advertising sign may also incorporate the North Lakes logo as an integral element of the signage.

Artworks/Murals:

Artwork and murals are architectural graphics and other artworks which do not contain any implied or direct reference to a business undertaking or service or commodity available from a business undertaking. However, artworks and murals may incorporate the North Lakes logo as a supporting or an ancillary element.

3.0 SIGNAGE GUIDELINES

Except in the case of road signs, the following guidelines will be applied to all advertising signage erected in the North Lakes Town Centre Core. The following guidelines are to be read in association with the guidelines contained in Section 7.9.1 of this Sector Plan.

These guidelines are intended to apply for individual signs, but where they form part of a coordinated signage plan, they can be varied.

3.1. Scale and Location of Signs on Buildings

The scale of the sign shall be compatible with the building and building elements on which it is affixed and to which it is in proximity, as well as nearby buildings, streets and other existing signs. Consideration shall be given to the sign's relationship to the overall appearance of the development as well as surrounding development.

The number and area of signs, if specified, are intended to be maximum standards.

3.2. Principal Developer Signs

Within road reservations and on land in ownership of the Council or the principal developer, signage content is limited to the message requirements of the principal developer and traffic control. Generally content of signs within these areas will be restricted to directional information for identifying locations, buildings, services and events. Commercial business names or logos will generally not be permitted except for sponsorships on temporary event signs.

3.3. Traffic Safety

A sign must not obstruct pedestrians' views of traffic or vehicle drivers' views of pedestrians, other traffic or the road ahead. A sign must not create possible confusion for drivers at critical locations such as intersections, traffic signals, or merging and weaving situations eg. red and green lit signage near traffic intersections.

3.4. Installation Fixings

No support, fixing, suspension or other systems required for the installation of a sign shall be exposed, unless designed as an integral feature of the sign. Conduits, wiring, switches etc shall be discreetly placed out of general view.

3.5. Animated Signs

Animated signs, where parts or all of the sign components move, may be acceptable in non-residential environments where no significant adverse impacts are likely to adjacent or nearby sensitive land uses.

3.6. Clutter

The visual amenity of the local area and the effectiveness of the message on the sign will be enhanced by reducing signage clutter. Proposed signs shall be assessed in the context of the number, type, size and location of existing signs on the site and surrounds.

3.7. Illumination

The luminance of an externally illuminated advertisement in the Town Centre Core (measured in candelas per square metre) is not to exceed 500 cd/m².

The luminance level of an advertisement may exceed this level where it can be shown that the increase in luminance level is unlikely to contribute to a traffic hazard or cause an inappropriate loss of amenity.

The external illumination of signs is to be carried out in such a way as to minimise the spill effects beyond the target sign. An illuminated sign must be designed to make the best possible use of the energy efficient equipment and light sources available.

At street level sign illumination is to be consistent with the general level of lighting so as to eliminate shadows and promote the safety of adjoining public areas.

The intensity of lighting and hours of illumination must not unreasonably impact on any residential properties or traffic operations.

3.8. Environmental Controls

A sign must not be nailed or similarly fixed to a tree. Every sign shall be maintained and kept in good repair.

3.9. Performance Controls

Unless otherwise approved under the coordinated signage plan, a proposed sign must meet the performance criteria outlined in the following section. The acceptable standards associated with each type of sign are provided as examples and should not be seen as precluding other solutions. However, where alternative solutions are proposed, the onus will be on the proponent to demonstrate that the relevant performance criteria are met.

SIGNS PERFORMANCE CRITERIA

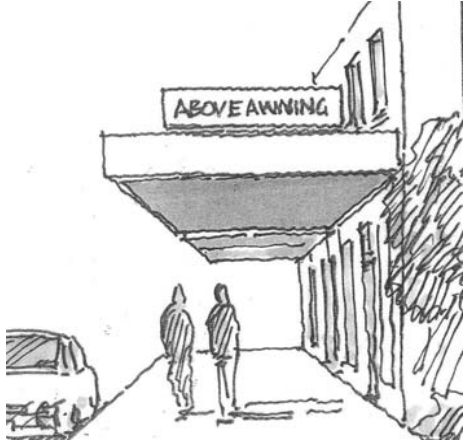

Signs shall:

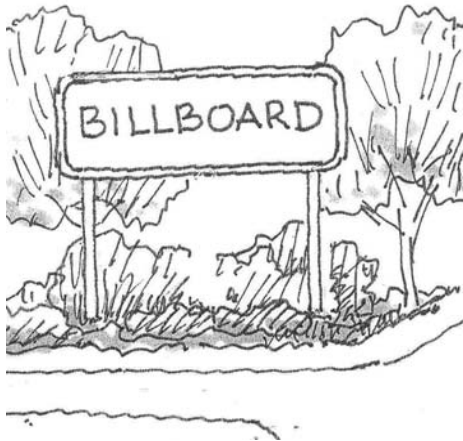
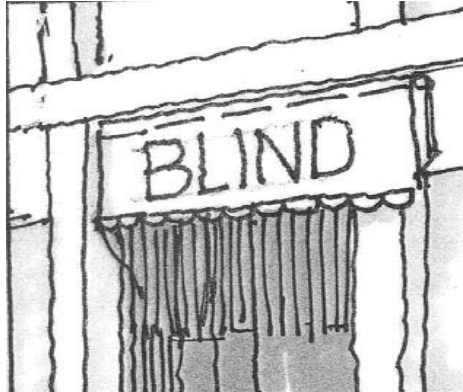
- (i) not create a hazard to traffic or pedestrians**
- (ii) be of character and design standard consistent with the objectives and controls for this sector plan**
- (iii) complement the streetscape and amenity of the locality by virtue of their size, location, illumination, utilisation of complementary shapes, forms, colours, durable quality materials and design concepts**
- (iv) if affixed to a building, complement the architectural style of the building by virtue of their size, location, illumination, utilisation of complementary shapes, forms, colours, durable quality materials and design concepts; and**
- (v) not unnecessarily repeat or duplicate similar signs.**

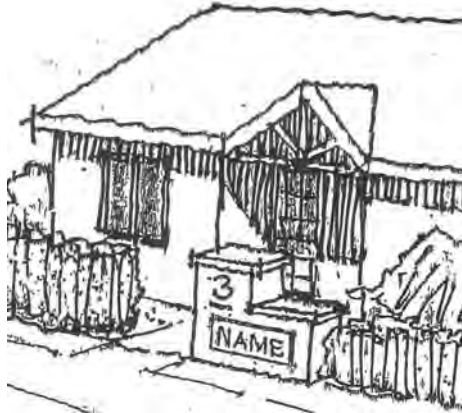

4.0 TYPES OF SIGNS


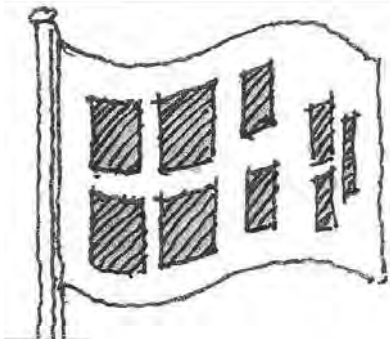
The following schedule sets out maximum criteria for various types of signs. Such signs may be permitted subject to the overall performance standards being met.


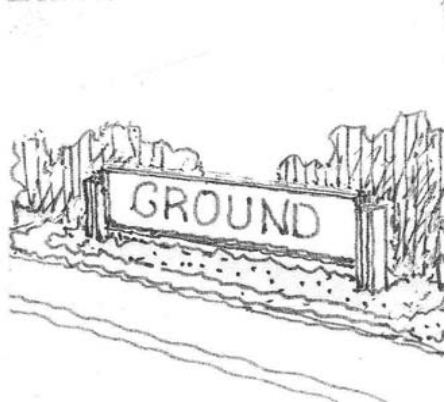
- (i) Above Awning Sign
- (ii) Awning / Fascia Sign
- (iii) Billboard Sign
- (iv) Blind Sign
- (v) Business Plate
- (vi) Canopy Sign
- (vii) Created Awning Sign
- (viii) Flag Pole Sign
- (ix) Footway Sign
- (x) Ground Sign
- (xi) Hamper Sign
- (xii) Highrise Building Sign
- (xiii) Lantern Sign
- (xiv) Pole Sign
- (xv) Projecting Flag Sign
- (xvi) Projecting Sign
- (xvii) Stallboard Sign
- (xviii) Under Awning Sign
- (xix) Vertical Banner Building Sign
- (xx) Vertical Banner Freestanding Sign
- (xxi) Wall Sign
- (xxii) Window Sign



TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>ABOVE AWNING SIGN An Above Awning Sign is an advertisement above an awning, verandah roof or the like.</p>		<p>Maximum size</p> <p>Maximum height above awning</p> <p>Extent</p> <p>Other requirements</p>	<p>Length - 2.7 metres</p> <p>Height - 0.6 metres</p> <p>Width - 0.3 metres</p> <p>1.0 metre</p> <p>Not to project beyond the edges of the awning</p> <p>No unsightly supports or rear view of sign.</p> <p>Any unsightly supports required for structural reasons are to be set back behind edges of sign</p>
<p>AWNING/FASCIA SIGN An Awning/Fascia Sign is an advertisement painted or otherwise affixed to the fascia of a building, an awning, verandah or return end of an awning.</p>		<p>Maximum extent</p> <p>Maximum height</p> <p>Maximum thickness</p>	<p>Not projecting above or below the fascia</p> <p>0.6 metre</p> <p>0.1 metre out from fascia</p>



TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>BILLBOARD SIGN A Billboard Sign is a freestanding display surface, the width of which is greater than the height and which may be positioned on the ground or mounted on one or more vertical supports.</p>		<p>Maximum area</p> <p>Maximum height above ground to top of sign</p> <p>Setting</p> <p>Minimum setback from side boundary</p> <p>Front setback</p> <p>Maximum</p>	<p>20 square metres per side for a maximum of 2 sides</p> <p>6.5 metres or the height of a building in close proximity whichever is the lesser</p> <p>As a free standing structure within a landscaped environment and so as not to expose an unsightly back view of the sign to a road or other public places</p> <p>3.0 metres</p> <p>Not to project beyond front property alignment</p> <p>Generally no billboard shall be erected on a site along which are located Pylon or Large Pylon signs unless the frontage exceeds 100m in which case a separation of 60m must be achieved.</p>
<p>BLIND SIGN A Blind Sign is an advertisement painted on or otherwise affixed to solid or flexible material suspended from the edge of an awning, verandah or wall.</p>		<p>Minimum clearance between the lower most point of the sign and the footway</p> <p>Maximum number</p>	<p>2.4 metres</p> <p>1 per tenancy frontage</p>

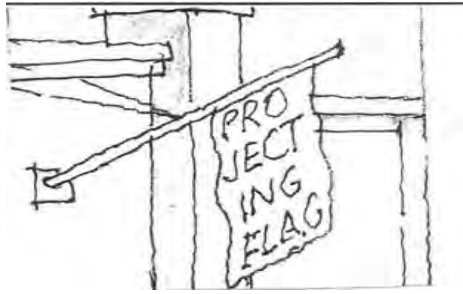
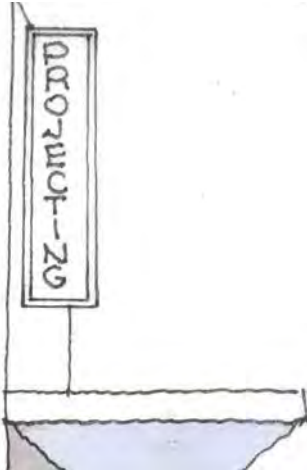
TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>BUSINESS PLATE A Business Plate is a small advertisement identifying the name and/or trade, business or calling of the occupant or business premises. A Business Plate may be painted or affixed to a wall.</p>		<p>Maximum surface area of sign residence in a residential area Maximum surface area per business occupant of premises in commercial and mixed use areas</p>	<p>0.3 square metres 0.3 square metres</p>
<p>CANOPY SIGN A Canopy Sign is an advertisement, painted or otherwise affixed, to a canopy, whether the canopy is constructed from flexible or solid material.</p>		<p>Minimum clearance between the lower most part of the sign and the footway Maximum number</p>	<p>2.4 metres 1 per tenancy frontage</p>

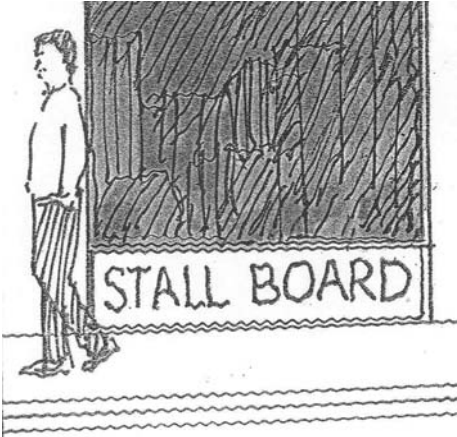

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>CREATED AWNING LINE SIGN A Created Awning Line Sign is an advertisement attached to and extending beyond a fascia of an awning or the like.</p>		<p>Extent</p> <p>Maximum area</p> <p>Minimum clearance</p>	<p>Not more than 0.6 metre above the fascia to which it is attached</p> <p>The created area is not to exceed 25% of the fascia</p> <p>2.4 metres to the footpath pavement</p>
<p>FLAG POLE SIGN A Flag Pole Sign is a fabric sign hung from a pole.</p>		<p>Maximum surface area</p> <p>Maximum height above ground</p>	<p>3.0 square metres</p> <p>6.5 metres if planted in the ground</p>

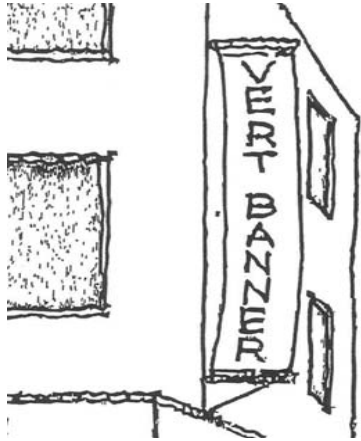

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>FOOTWAY SIGN A Footway Sign is a portable, freestanding advertisement, normally supported by an 'A' or inverted 'T' frame, and typically displayed on a footway.</p>		<p>Maximum size</p> <p>Maximum number</p> <p>Location</p> <p>Other requirements</p>	<p>Height - 1.0 metre Width - 0.6 metre Depth - 0.6 metre</p> <p>1 per tenancy</p> <p>A Footway Sign on a footway is to be positioned near the kerb (but not closer than 0.25 metre) so as to leave clear passage for pedestrians along the footway, particularly the visually disadvantaged who rely on clear passage along the frontage of shops.</p> <p>No footway sign is to be positioned so as to obstruct, clutter or detract from street landscaping, furniture or artwork</p> <p>A Footway Sign not to be located on a public road.</p> <p>A Footway Sign is not to have moving, rotating or animated parts, such as a spinner sign. A Footway Sign is to be displayed only during trading hours and is not to be used for the display of merchandise</p>
<p>GROUND SIGN A Ground Sign is a monolithic sign which, in effect, sits on or rises out of the ground.</p>		<p>Setting</p> <p>Maximum height</p> <p>Maximum surface area</p> <p>Maximum setback from side boundary</p> <p>Maximum number</p>	<p>Erected within a landscaped environment.</p> <p>Not erected to expose an unsightly back view of the sign.</p> <p>When in a residential area, only permitted where used in a name of a multi-unit development site</p> <p>1.8 metres</p> <p>10 square metres</p> <p>3 metres</p> <p>One per frontage for frontages up to 100 metres</p> <p>For frontages over 100 metres, spacing of signs to be no less than 60 metres</p>

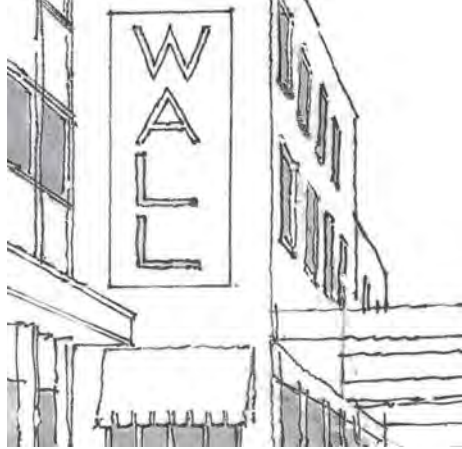

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>HAMPER SIGN A Hamper Sign is an advertisement, painted or otherwise affixed, between a door head and an awning, or their equivalent levels.</p>		<p>Maximum thickness Maximum Extent</p>	<p>0.3 metre from the face of the wall The size and form are to be compatible with the building on which they are located.</p>
<p>HIGH RISE BUILDING SIGN A High Rise Building Sign is an advertisement naming or identifying a high rise building by the use of a logo or the like.</p>		<p>Maximum extent Maximum number Other requirements</p>	<p>Contained within the actual or created outline of a building or appears as if it was part of the original building if part of a structure creating a changed building outline One per building frontage A High Rise Building Sign is not to contain third party advertising</p>

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>LANTERN SIGN A Lantern Sign is a translucent lighting fixture displaying the name and/or trade, business or calling of the occupant.</p>		<p>Maximum number for a Home Occupation or Business</p> <p>Maximum edge dimension of lantern</p> <p>Maximum height</p> <p>Maximum illumination</p>	<p>One</p> <p>0.5 metre (ie to fit into a Cube of 0.5 x 0.5 x 0.5 metres)</p> <p>2 metres</p> <p>Not greater than a standard 100 watt incandescent bulb</p>
<p>POLE SIGN A Pole Sign is a freestanding sign mounted on one or more vertical supports which has a smaller surface area and a lower height than a Pylon/Column sign.</p>		<p>Maximum number</p> <p>Aspect</p> <p>Maximum surface area</p> <p>Maximum height above ground</p> <p>Minimum setback from side boundary</p> <p>Setting</p>	<p>One two-sided pole sign per allotment street frontage</p> <p>Not erected to expose an unsightly back view of the sign</p> <p>2.4m² per side for a maximum of two sides.</p> <p>4.5 metres</p> <p>3 metres</p> <p>Erected within a landscaped environment</p>

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>PROJECTING FLAG SIGN A Projecting Flag Sign is a non-illuminated, wall-mounted corporate flag.</p>		<p>Maximum size Maximum number Minimum spacing Minimum clearance</p>	<p>0.3 square metre per face 4 per site 2 metres 2.4 metres to the footpath pavement.</p>
<p>PROJECTING SIGN A Projecting Sign is a double-faced sign projecting at right angles to a wall and fixed to the wall. A Projecting Sign is not an Under Awning Sign.</p>		<p>Minimum clearance between the lowermost point of the sign and the footway</p> <p>Maximum number Orientation Extent</p> <p>Maximum size</p>	<p>2.4 metres</p> <p>One per building frontage Vertical Not projected above the height of the wall to which it is attached Height - 3.0 metres Width - 0.75 metre</p>

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>STALLBOARD SIGN A Stallboard Sign is an advertisement, painted or otherwise affixed, at the base of a shopfront, normally below a shop window</p>		<p>Fixing</p> <p>Maximum Extent</p>	<p>Fitted flush</p> <p>The size and form are to be compatible with the building on which they are located.</p>
<p>UNDER AWNING SIGN An Under Awning Sign is an advertisement suspended under an awning or verandah.</p>		<p>Orientation</p> <p>Minimum clearance between the lowermost point of the sign and footway</p> <p>Extent</p> <p>Location</p> <p>Minimum distance between under awning signs</p> <p>Maximum dimensions</p> <p>Minimum setback from side boundary</p>	<p>At right angles to the building frontage</p> <p>2.4 metres</p> <p>Not to project beyond the awning or verandah</p> <p>Central to each shop or tenancy or shopping arcade entrance</p> <p>3.0 metres</p> <p>Length - 2.7 metres or not greater than 75% of the width of the awning or verandah which ever is lesser</p> <p>Height - 0.6 metres</p> <p>Width - 0.3 metres</p> <p>1.5 metres</p>

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>VERTICAL BANNER BUILDING SIGN A Vertical Banner Building Sign is an advertisement of non-rigid material normally fixed at the top and bottom to brackets projecting from a building.</p>		<p>Maximum height</p> <p>Maximum width</p> <p>Minimum clearance between lowermost point of the sign and the footway</p> <p>Maximum area</p> <p>Minimum spacing between signs</p> <p>Minimum setback from side or rear boundary</p>	<p>Not to project above the height of the adjacent part of the building to which it is fixed and not to exceed 5 metres above ground level</p> <p>0.75 metre</p> <p>2.4 metres</p> <p>2.4 square metres</p> <p>6.0 metres</p> <p>3.0 metres</p>
<p>VERTICAL BANNER FREESTANDING SIGN A Vertical Banner Freestanding Sign is an advertisement of non-rigid material normally supported at two or more locations from brackets extending from a freestanding pole.</p>		<p>Maximum height (above ground level to top most support)</p> <p>Maximum width</p> <p>Minimum clearance between lowermost point of the sign and the footway</p> <p>Minimum spacing between signs</p> <p>Minimum setback from side boundary</p> <p>Maximum surface area</p>	<p>5.0 metres</p> <p>0.75 metre</p> <p>2.4 metres</p> <p>6.0 metres</p> <p>3.0 metres</p> <p>2.4 square metres</p>

TYPE OF SIGN	EXAMPLE OF TYPE OF SIGN	ACCEPTABLE STANDARD FOR SPECIFIC SIGN STYLE	
<p>WALL SIGN A Wall Sign is an advertisement, painted or otherwise affixed, flat to a wall.</p>		<p>Maximum thickness (or projection from wall) Maximum number Maximum surface area Location</p>	<p>0.3 metre One per tenancy 20% of wall space or 6 m², whichever is the lesser Ground floor level and first floor level and not to project beyond the edge of the wall.</p>
<p>WINDOW SIGN A Window Sign is an advertisement, painted or otherwise affixed, to the glass of a display window.</p>		<p>Maximum surface area of sign</p>	<p>25% of the area of the glass panel or panels on which it is displayed</p>

APPENDIX F

PROPOSED METES AND BOUNDS DESCRIPTION OF THE SECTOR

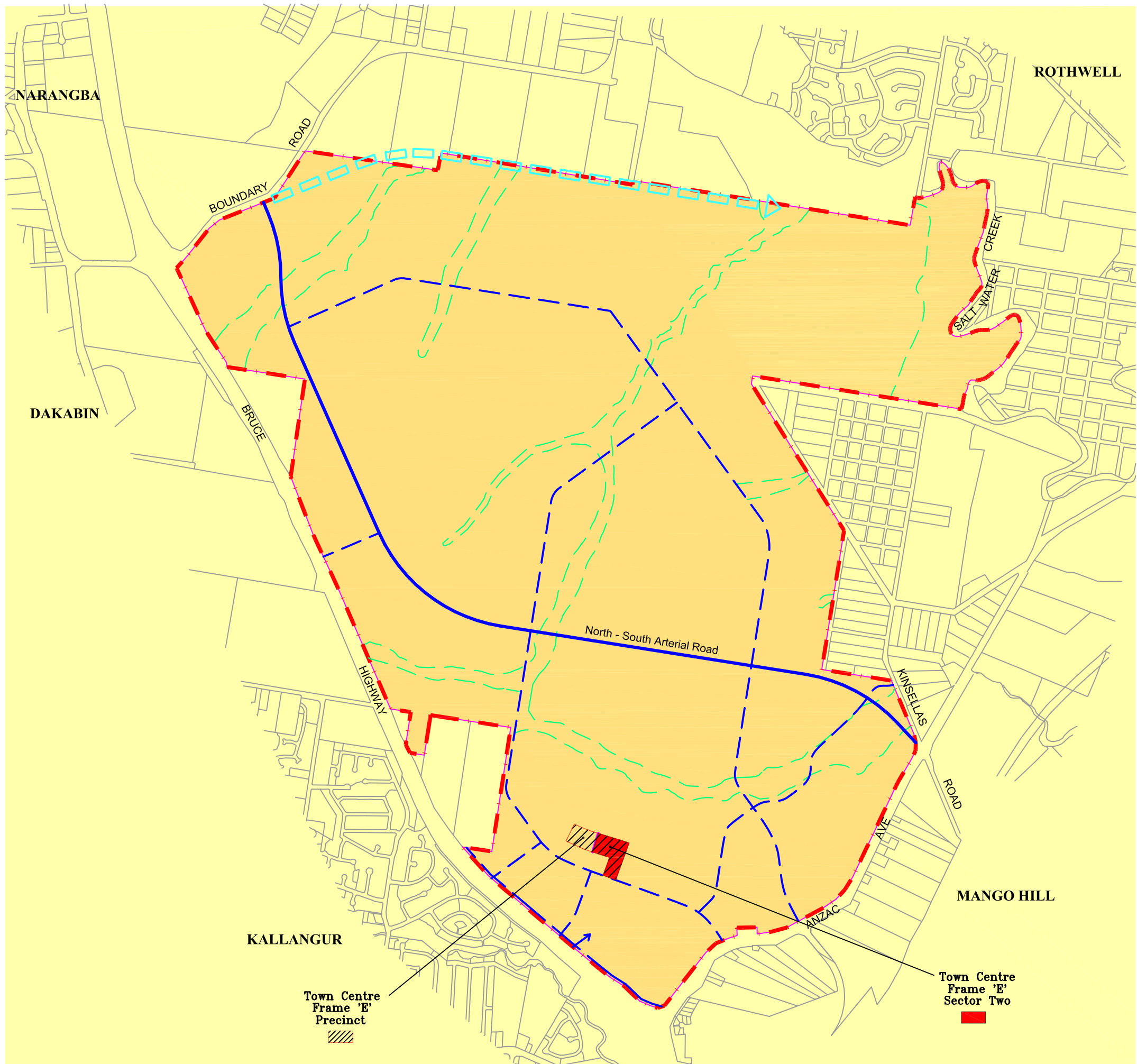
METES & BOUNDS TOWN CENTRE FRAME 'C' PRECINCT TOWN CENTRE FRAME 'C' SECTOR FIVE

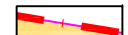






FROM THE POINT OF COMMENCEMENT BEING ON AMG COORDINATES
EASTING – 502228.591 METRES, NORTHING – 6986953.721 METRES, THENCE
IN AN EASTERLY DIRECTION AT A BEARING OF 74°10'20"
FOR A DISTANCE OF 20.645 METRES (MORE OR LESS), THENCE
IN AN EASTERLY DIRECTION AT A BEARING OF 85°0'
FOR A DISTANCE OF 13.978 METRES (MORE OR LESS), THENCE
IN AN EASTERLY DIRECTION AT A BEARING OF 87°30'
FOR A DISTANCE OF 10.356 METRES (MORE OR LESS), THENCE
IN AN EASTERLY DIRECTION AT A BEARING OF 90°0'
FOR A DISTANCE OF 14.5 METRES (MORE OR LESS), THENCE
IN AN EASTERLY DIRECTION AT A BEARING OF 92°50'
FOR A DISTANCE OF 10.833 METRES (MORE OR LESS), THENCE
IN AN EASTERLY DIRECTION AT A BEARING OF 106°20'50"
FOR A DISTANCE OF 5.464 METRES (MORE OR LESS), THENCE
IN A SOUTH EASTERLY DIRECTION AT A BEARING OF 133°22'35"
FOR A DISTANCE OF 5.464 METRES (MORE OR LESS), THENCE
IN A SOUTHERLY DIRECTION AT A BEARING OF 160°24'20"
FOR A DISTANCE OF 5.464 METRES (MORE OR LESS), THENCE
IN A SOUTHERLY DIRECTION AT A BEARING OF 173°55'10"
FOR A DISTANCE OF 73.919 METRES (MORE OR LESS), THENCE
IN A SOUTHERLY DIRECTION AT A BEARING OF 176°0'
FOR A DISTANCE OF 20 METRES (MORE OR LESS), THENCE

IN A SOUTHERLY DIRECTION AT A BEARING OF 177°30'
FOR A DISTANCE OF 17.942 METRES (MORE OR LESS), THENCE
IN A SOUTHERLY DIRECTION AT A BEARING OF 191°29'30"
FOR A DISTANCE OF 5.375 METRES (MORE OR LESS), THENCE
IN A SOUTH WESTERLY DIRECTION AT A BEARING OF 219°28'35"
FOR A DISTANCE OF 5.375 METRES (MORE OR LESS), THENCE
IN A SOUTH WESTERLY DIRECTION AT A BEARING OF 247°27'40"
FOR A DISTANCE OF 5.375 METRES (MORE OR LESS), THENCE
IN A WESTERLY DIRECTION AT A BEARING OF 261°27'15"
FOR A DISTANCE OF 47.592 METRES (MORE OR LESS), THENCE
IN A WESTERLY DIRECTION AT A BEARING OF 264°12'50"
FOR A DISTANCE OF 16.947 METRES (MORE OR LESS), THENCE
IN A NORTHERLY DIRECTION AT A BEARING OF 349°59'40"
FOR A DISTANCE OF 7.846 METRES (MORE OR LESS), THENCE
IN A NORTHERLY DIRECTION AT A BEARING OF 353°55'10"
FOR A DISTANCE OF 95.214 METRES (MORE OR LESS), THENCE
IN A NORTHERLY DIRECTION AT A BEARING OF 350°12'15"
FOR A DISTANCE OF 33.392 METRES (MORE OR LESS),
TO THE POINT OF COMMENCEMENT AND CONTAINING AN AREA OF
1.056 HECTARES (MORE OR LESS).

We, PMM Group Pty Ltd A.C.N. 010 370 448 hereby certify that the Metes and Bounds description contained herein has been prepared by the company and the AMG connection used for the commencement point has been determined by field survey.

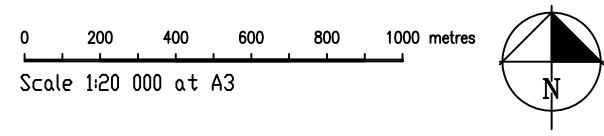
.....
Cadastral Surveyor/Director



- LEGEND**
-  DCP Area
 -  Town Centre Frame 'E' Precinct
 -  Town Centre Frame 'E' Sector Two
 -  Major Open Spaces
 -  North-South Arterial Road
 -  Major Roads
 -  Possible Boundary Road Deviation

Town Centre Frame 'E' Precinct
Town Centre Frame 'E' Sector Two

PLANNING CONTEXT



File No 2836-022/S2
Dwg TCFE2sectorfig1
October 2009

FIGURE 1

PRECINCT
PLAN 019

**ENDEAVOUR
BLVD**

SECTOR PLAN
019-3000

**JOYNER
CIRCUIT**

MAJOR COMMUNITY FACILITIES "A" PRECINCT 009
- NORTH LAKES COLLEGE

**DISCOVERY
DRIVE**

Lot 981

GREGOR ST EAST

**JOYNER
CIRCUIT**

TOWN CENTRE
FRAME

GREGOR ST WEST

SECTOR PLAN
019-3000



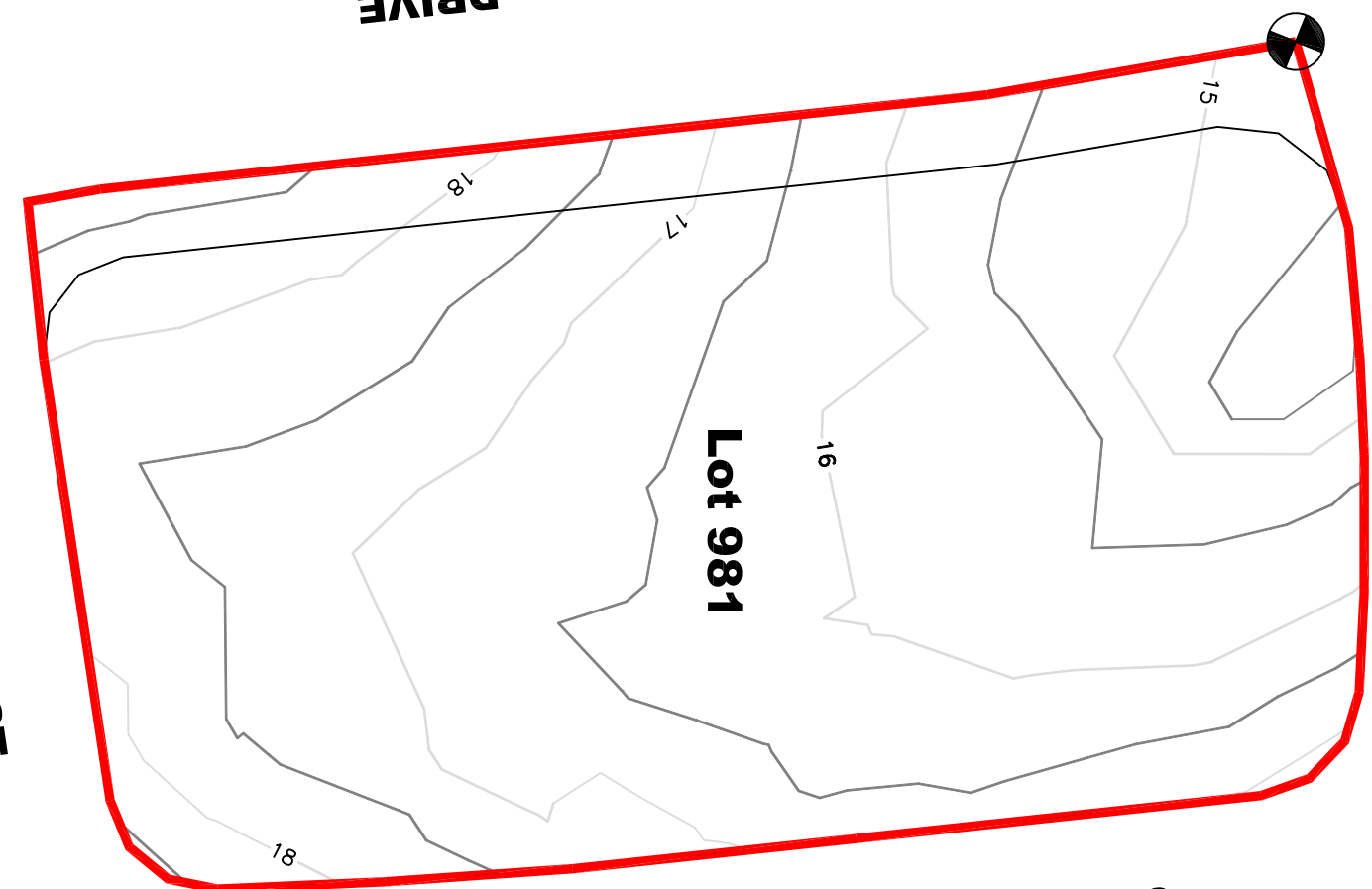
NORTH LAKES



Point of Commencement
AMG Coordinates (Zone 56)
Easting 502228.591
Northing 6986953.721

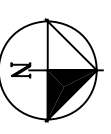
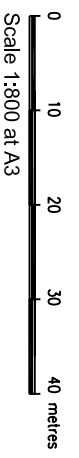
See Appendix "F" for Metes and Bounds Description

26 Existing Contours (1m Interval)



Town Centre Frame 'C' Precinct
Town Centre Frame 'C' Sector Five

CADASTRAL BOUNDARIES



File No 2836-019SS5
Dwg CFC5sectorfig2
November 2005

FIGURE 2



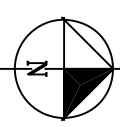
MAJOR COMMUNITY FACILITIES
"A" PRECINCT 009
- NORTH LAKES COLLEGE



- LEGEND**
- GENERALISED DEVELOPMENT AREA
 - PRECINCT BOUNDARY
 - PROPOSED TRAFFIC LIGHTS
 - MAJOR PATHS
 - MAJOR ROADS
 - SECONDARY ACCESS ROAD (COLLECTOR ACCESS ROAD)
 - EXISTING APPROVED VEHICULAR ACCESS (REFER ADJOINING PRECINCT PLAN)
 - INDICATIVE BUS ROUTE OPTIONS
 - RESTRICTED TURN MOVEMENTS ONTO DISCOVERY DRIVE
 - NO VEHICULAR ACCESS PERMITTED
 - NORTH LAKES ENTRY STATEMENT
 - INDICATIVE LOCATION OF VEHICULAR ACCESS - MAJOR ROADS (ARROW INDICATES PERMITTED MOVEMENTS)
 - LANDSCAPE FRONTAGE TREATMENT



Town Centre Frame 'C' Precinct
Town Centre Frame 'C' Sector Five
PRECINCT PLAN MAP



MAJOR COMMUNITY FACILITIES "A" PRECINCT 009
- NORTH LAKES COLLEGE

TOWN CENTRE
FRAME
PRECINCT PLAN
019

ENDEAVOUR
BLVD

TOWN CENTRE FRAME
SECTOR PLAN
019-3000

DISCOVERY
DRIVE

GREGOR
ST WEST

JOYNER
CIRCUIT

JOYNER

CIRCUIT

GREGOR

ST EAST

SECTOR PLAN
019-1000

LEGEND

- SECTOR BOUNDARY
- PROPOSED TRAFFIC LIGHTS
- RESTRICTED TURN MOVEMENTS ONTO DISCOVERY DRIVE
- MAJOR PATHS
- MAJOR ROADS
- SECONDARY ACCESS ROAD (COLLECTOR ACCESS ROAD)
- INDICATIVE BUS ROUTE OPTIONS
- INDICATIVE LOCATION OF VEHICULAR ACCESS-MAJOR ROADS (ARROW INDICATES PERMITTED MOVEMENTS)
- GENERALISED LOCATION OF COMBINED CARPARKING AND BUILDING AREA
- NO VEHICULAR ACCESS PERMITTED
- LANDSCAPING FRONTAGE TREATMENT INCLUDING LANDSCAPING, PARKING, LIGHTING AND STREET PLANTING
- BUILDING LINE

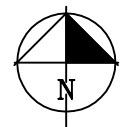
TOWN CENTRE FRAME
PRECINCT PLAN
019



Town Centre Frame 'C' Precinct
Town Centre Frame 'C' Sector Five

SECTOR PLAN MAP

0 10 20 30 40 meters
Scale 1:1500 at A3



File No 2836-019S5
Dwg CFC5sectorfig4
November 2005

FIGURE 4

PRECINCT
 PLAN 019












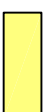
SECTOR PLAN
 019-3000

GREGOR ST WEST

SECTOR PLAN
 019-1000

GREGOR ST EAST

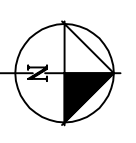
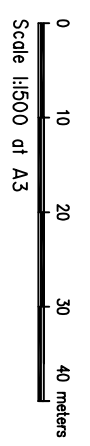
TOWN CENTRE
 FRAME

- LEGEND**
-  SECTOR BOUNDARY
 -  PROPOSED TRAFFIC LIGHTS
 -  RESTRICTED TURN MOVEMENTS ONTO DISCOVERY DRIVE
 -  MAJOR ROADS
 -  SECONDARY ACCESS ROAD (COLLECTOR ACCESS ROAD)
 -  MAJOR PATHS
 -  INDICATIVE BUS ROUTE OPTIONS
 -  EVERGREEN STREET TREE PLANTING
 -  LANDSCAPED ZONE (Minimum 3m WIDE)
 -  GENERALISED DEVELOPMENT AREA



Town Centre Frame 'C' Precinct
 Town Centre Frame 'C' Sector Five

SECTOR LANDSCAPE PLAN



File No 2836-019SS5
 Dwg CFCSectorfig5
 November 2005

FIGURE 5

PRECINCT
PLAN 019

**ENDEAVOUR
BLVD**

SECTOR PLAN
019-3000

**DISCOVERY
DRIVE**

**JOYNER
CIRCUIT**

MAJOR COMMUNITY FACILITIES "A" PRECINCT 009
- NORTH LAKES COLLEGE

Lot 981
9481 m²
14.2 ET
28.4 EP

**JOYNER
CIRCUIT**

TOWN CENTRE
FRAME

GREGOR STREET EAST

SECTOR PLAN
019-1000

GREGOR STREET WEST



NORTH LAKES

LEGEND

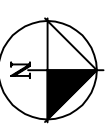
 SECTOR BOUNDARY



Town Centre Frame 'C' Precinct
Town Centre Frame 'C' Sector Five

INDICATIVE PLAN OF SUBDIVISION









0 10 20 30 40 metres
Scale 1:800 at A3

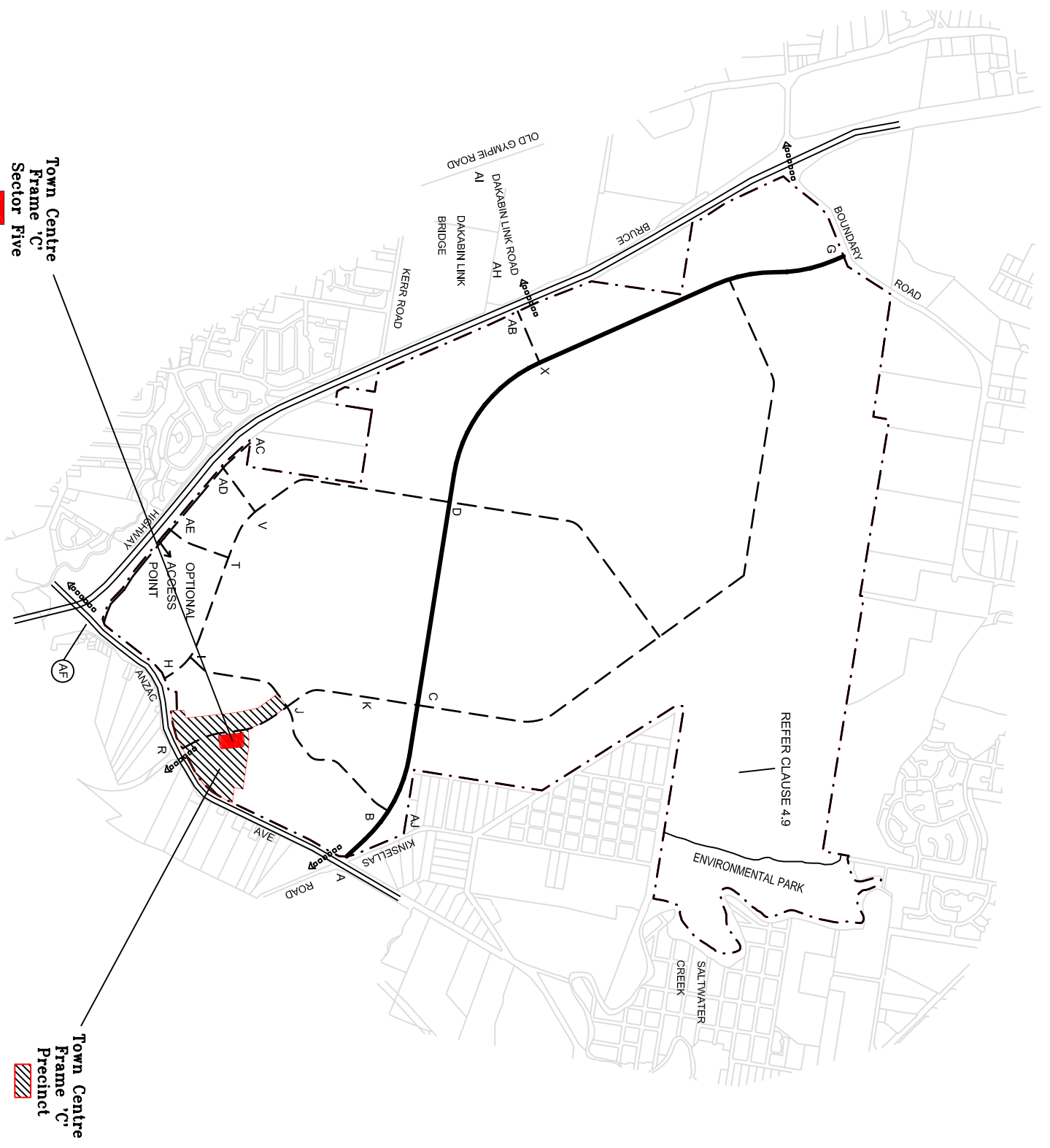


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FIGURE 6

LEGEND

-  DCP Area Boundary
-  Town Centre Frame 'C' Precinct
-  Town Centre Frame 'C' Sector Five
-  EXTERNAL PEDESTRIAN/BIKEWAY CONNECTIONS
- STATE CONTROLLED ROADS**
 -  PROPOSED NORTH-SOUTH ARTERIAL ROAD
 -  EXISTING ARTERIAL ROADS
- OTHER MAJOR ROADS**
 -  ARTERIAL ROADS
 -  SUB-ARTERIAL OR TRUNK COLLECTOR ROADS



NOTE
1 THE INTERNAL ROAD LAYOUT SHOWN ON THIS PLAN IS INDICATIVE ONLY. COLLECTOR AND ACCESS ROADS ARE NOT SHOWN.

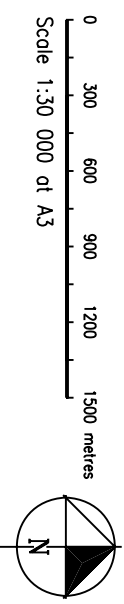
Town Centre Frame 'C' Sector Five

Town Centre Frame 'C' Precinct



Town Centre Frame 'C' Precinct
Town Centre Frame 'C' Sector Five

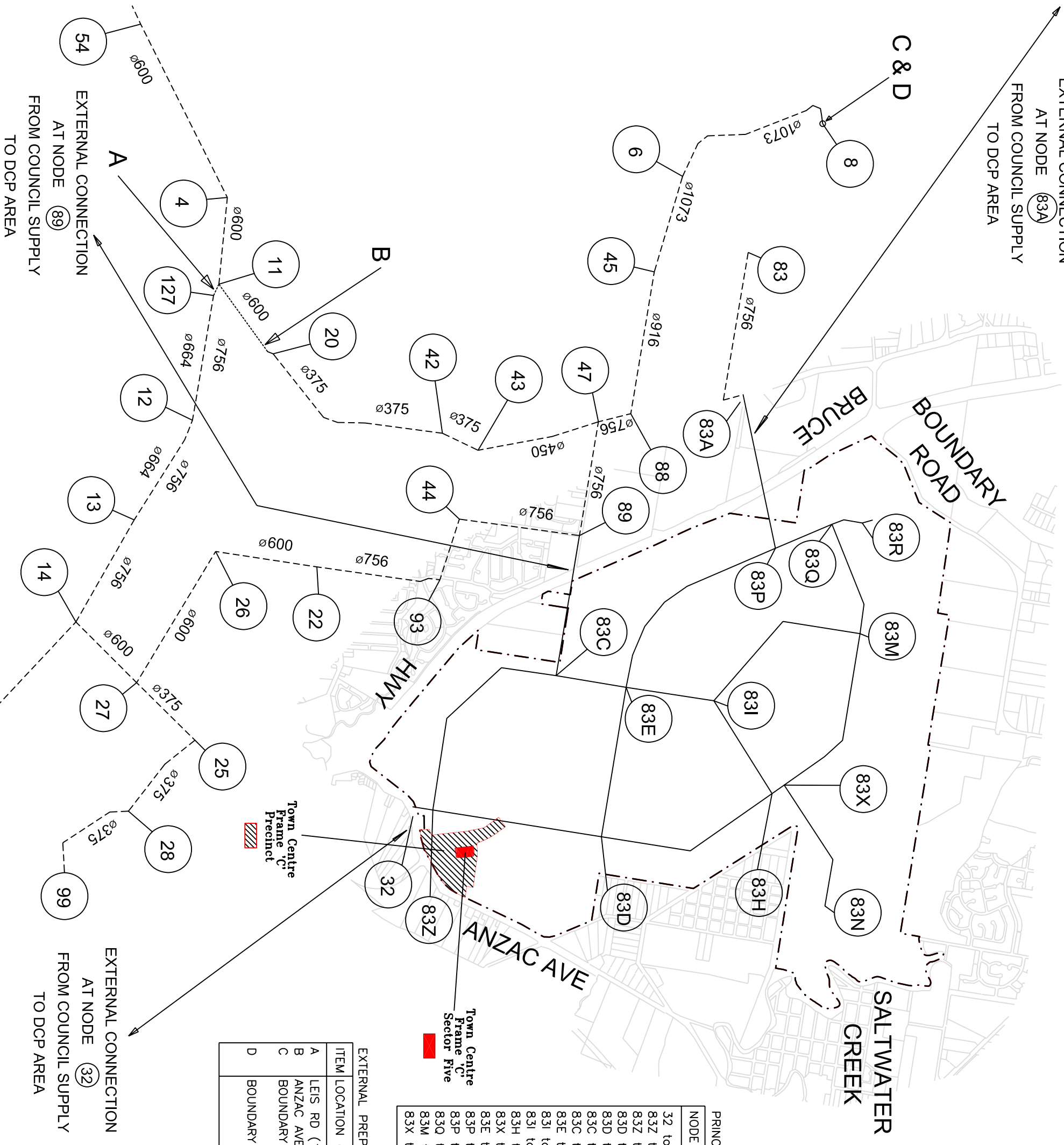
ROAD LAYOUT



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FIGURE 7

EXTERNAL CONNECTION
AT NODE (83A)
FROM COUNCIL SUPPLY
TO DCP AREA



LEGEND

- Water Main – Works by Principal Developer
- Water Main – External Prepayment Works
- Water Main – Works by others or existing
- Node Number
- DCP Area Boundary
- Town Centre Frame 'C' Precinct
- Town Centre Frame 'C' Sector Five

PRINCIPAL DEVELOPER WORKS

NODE	DIAMETER (mm)
32 to 83Z	300
83Z to 83D	300
83Z to 83C	375
83D to 83H	375
83D to 83E	750
83C to 89	916
83C to 83E	750
83E to 83I	375
83I to 83H	300
83I to 83M	300
83H to 83X	300
83X to 83N	300
83E to 83P	450
83P to 83A	664
83P to 83Q	500
83Q to 83R	300
83M to 83Q	450
83X to 83M	300

EXTERNAL PREPAYMENT WORKS

ITEM	LOCATION (Node)	DESCRIPTION
A	LEIS RD (11-127)	664mm MAIN
B	ANZAC AVE (127-20)	600mm MAIN
C	BOUNDARY RD (8)	RESERVIOR 32MI – STAGE 1
D	BOUNDARY RD (8)	RESERVIOR 32MI – STAGE 2



Town Centre Frame 'C' Precinct
Town Centre Frame 'C' Sector Five

WATER SUPPLY HEADWORKS



File No 2836-019SS5
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November 2005

FIGURE 8



LEGEND

- PS1 Pump Station
- TM Trunk Gravity Main
- RM Rising Main
- ③ Catchment Number
- Freshwater Creek Catchment (Part)
- Saltwater Creek Catchment (Part)
- Catchment Boundary
- DCP Area Boundary
- Town Centre Frame 'C' Precinct
- Town Centre Frame 'C' Sector Five



PRINCIPAL DEVELOPER WORKS

WORKS	DIAMETER (mm)	LENGTH (m)
TRUNK MAINS		
TM1	450	450
	375	650
	300	500
TM4	450	1500
TM4A	375	1350
TM4B	375	1000
TM5	300	750
TM6	375	700
TM6A	300	700
GRAVITY TRUNK SEWER		
GTS4	600	1950
GTS5	450	1500
GTS6	375	800
RISING MAINS		
RM1	375	5500
RM2	525	7200
RM115	150	1050
PUMP STATIONS		
PS1		
PS2		

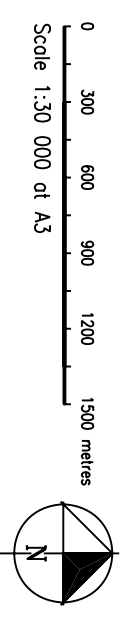
EQUIVALENT PERSONS

Catchment	Within DCP Area	Outside DCP Area	Total
Catchments 1&2	8250 EP	3726 EP	11976 EP
Catchments 3,4,5,6 & 8	22395 EP	6027 EP	28422 EP
Catchment 7	1063EP		
TOTAL	31708 EP		



Town Centre Frame 'C' Precinct
Town Centre Frame 'C' Sector Five

SEWERAGE HEADWORKS



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FIGURE 9