

21.12 INFRASTRUCTURE

17/09/2009
VC59

21.12-1 Overview

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Public transport

Over reliance on car based transport is an environmental and social concern. The municipality is currently serviced by a single mode of public transport (bus). There are opportunities to improve this through increasing the frequency of bus services and extending the hours of operation. In addition, there are opportunities to extend tramlines into the municipality. There is a need to encourage the use of existing public transport, which may include Park and Ride facilities. The State Government has a policy of achieving 20% of all travel being by public transport by 2020 (DOI 2004).

Refer to Infrastructure Framework Plan 6 for key infrastructure features and opportunities.

Movement network

There is a hierarchy of roads in the municipality including declared arterial roads, Council arterial roads, collector roads and local streets. There are deficiencies with the standards of some of the declared arterial roads and Council arterial roads, which need to be upgraded.

Doncaster Road is the main east-west arterial road and a major bus route in the municipality. Council will promote initiatives that improve the public transport function of Doncaster Road and seek to improve pedestrian amenity, visual character and its local identity by changing its appearance to a treed boulevard.

There are a number of major existing on-road and off-road routes throughout the municipality, which make up the existing Manningham bicycle network and are used by commuter and recreational cyclists. There is also a network of linear parks which provide additional recreational opportunities including walking and horse trails.

Council will continue to identify and upgrade the existing road, bicycle and pedestrian networks throughout the municipality. This will take into account social, economic and environmental values whilst recognising safety, traffic needs, improved access and mobility.

Services

Council is responsible for providing drainage for the local street network and local catchment areas. Council encourages developments to design and upgrade drainage infrastructure to reduce the occurrence of inundation and flooding, improve safety and enhance the amenity of the municipality. An integrated approach is sought to the management of stormwater and the progressive upgrading of stormwater and drainage infrastructure assets. Council will investigate the introduction of drainage contributions focussing on areas around activity centres, and will continue to identify land which has drainage and flood constraints.

The protection and enhancement of Manningham's waterways and catchments is a key issue. Manningham lacks reticulated sewerage systems in its low-density residential and green wedge areas, which has a significant impact on these waterways. Council will continue to encourage the provision of reticulated sewerage to unsewered areas and/or innovative solutions to reuse wastewater.

Council requires the undergrounding of services to all new development and subdivisions. With regard to the provision of new powerlines, only those powerlines of up to 66kV will be required to be located underground. The undergrounding of existing powerlines is also

encouraged particularly for historic and environmentally sensitive areas, where the opportunity arises.

Telecommunications and satellite dishes

Telecommunication facilities and satellite dishes often have visual and environmental impacts, including issues relating to amenity, visual intrusion on the streetscape or landscape and a lack of compatibility with surrounding land uses.

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Public transport

Key issues

- Lack of public transport services in some areas.
- Infrequency and limited hours of public transport services.
- The need to provide alternative public transport options.
- Connectivity between modes of transport.
- The need to encourage greater use of an improved public transport network.

Objectives

- To increase the usage of public transport.
- To improve the existing bus network with regard to frequency, connectivity and accessibility.
- To improve bus infrastructure including upgrading bus stops and interchanges.
- To encourage the provision of a second form of public transport (tramline).

Strategies

Strategies to achieve these objectives include:

- Facilitate the location and development of transport hubs at or adjoining activity centres.
- Facilitate the provision of bus shelters at high use public transport sites.
- Encourage creation of 'park and ride' and 'bike and ride' facilities and public transport linkages.

Implementation

These strategies will be implemented by:

Zones and overlays

Policy and exercise of discretion

- Implementing the *Manningham Integrated Transport Strategy* (2003).
- Implementing the *Manningham Bicycle Strategy* (2001).

Further strategic work

- Reviewing the *Manningham Bicycle Strategy* (2001).

Other actions

- Continuing to advocate for improved public transport services and facilities within the municipality.
- Investigate appropriate locations for new 'park and ride' and 'bike and ride' facilities.

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Roads

Key issues

- The continued upgrade of the road, bicycle and pedestrian networks.
- Balancing the environmental values of roadside vegetation with safety needs.
- The need to improve the streetscape and amenity along Doncaster Road and other main roads.

Objectives

- To ensure that road construction standards and new vehicle crossings achieve a balance between the role of providing safe and efficient passage of vehicles, bicycles and pedestrians while taking into account the natural and cultural heritage values of roadsides and the area's character.
- To maximise opportunities along Doncaster Road and other main roads to facilitate pedestrian and cyclist activity and provide higher levels of user amenity.
- To ensure that a comprehensive network of paths is available which facilitates safe and accessible bicycle and pedestrian movement.

Strategies

Strategies to achieve these objectives include:

- Require that design and construction standards cater for safe, efficient and effective vehicle movement and servicing needs.
- Require that design and construction standards protect remnant vegetation using techniques such as site assessment prior to any roadworks, the development of action/management plans to ensure protection of indigenous vegetation and the use of suitable indigenous plant species.
- Promote cycling and walking opportunities by providing safe bicycle routes and expanding the bicycle network, and providing pedestrian trails to improve accessibility to local and regional commercial, community and recreational facilities.
- Provide opportunities to enhance the amenity of Doncaster Road and other main roads.

Implementation

These strategies will be implemented by:

Zones and overlays

- Applying the Road Zone 1 for Category 1 roads.
- Applying the Road Zone 2 for Category 2 roads.

Policy and exercise of discretion

- Implementing the *Public Open Space Strategy* (2004).
- Implementing the *Roadside Environmental Management Strategy* (2004).
- Implementing the *Manningham Bicycle Strategy* (2001).
- Implementing the *Manningham Integrated Transport Strategy* (2003).
- Implementing the *Doncaster Hill Pedestrian and Cycle Plan* (2003).
- Implementing the *Doncaster Hill Developer Contribution Plan* (2004).

Further strategic work

- Reviewing the Design and Development Overlay for Doncaster Road (DDO1).
- Reviewing the *Manningham Bicycle Strategy* (2001).

Other actions

- Consider recommendations from the North East Integrated Transport Study.
- Implementing the *Arterial Roads Improvement Strategy* (2004)
- Implementing the *Road Safety Strategy* (2005).

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Services

Key issues

- The introduction of water capture, reuse and recycling within developments.
- The existence of unsewered land.
- Low and/or declining water quality.
- Drainage capacity and the need to prevent loss of life and damage to property.
- Visual impact of services.
- Unsuitability of land (lot size, soil type, etc) to absorb wastewater.

Objectives

- To encourage connection to sewer where available and within reasonable proximity.
- To integrate the capture and re-use of water within developments.
- To ensure that drainage infrastructure is designed and upgraded to provide a safe, and efficient system.

- To ensure that the use and development of land maintains the flood flow characteristics of the Yarra River and its tributaries.
- To encourage the use of recycled water.
- To ensure that appropriate management practice is applied to the urban stormwater system.
- To ensure the undergrounding of services to all new development and subdivisions.
- To ensure that all new development and subdivision connect to mains water.
- To ensure that all new development and subdivision can treat and retain wastewater on site.

Strategies

Strategies to achieve these objectives include:

- Regularly monitor reports on water quality in natural waterways in Manningham.
- Regularly monitoring and reviewing stormwater quality.
- Regulate the off-site flow of water by installing and maintaining on-site detention systems and consider inclusion of a capture and reuse function within these systems.
- Ensure that the use and development of land does not affect the role of land as an active floodway.
- Promote best practice stormwater management and reuse techniques.
- Require subdivision applications to include a designated effluent disposal envelope on each lot where appropriate..
- Require applications for development and subdivision to include the results of land capability assessments where appropriate, which demonstrate that the proposal is capable of treating and containing wastewater on site.
- Encourage applicants to create natural biological filtration systems in areas of high sediment and/or nutrient run-off, including roadside developments and subdivisions.
- Require development proposals that increase water runoff from a site, to detain stormwater on site or conduct or assist with other works which are necessary to maintain or increase drainage capacity, where appropriate.
- Maintain the flood flow characteristic of the Yarra River and its tributaries.
- Require all new development, including subdivision to provide underground services.
- Require all new development, including subdivision to be connected to mains water.

Implementation

These strategies will be implemented by:

Zones and overlays

- Applying the Urban Floodway Zone.
- Applying the Special Building Overlay.
- Applying the Land Subject to Inundation Overlay.

Policy and exercise of discretion

Further strategic work

- Investigating introduction of a Developer Contributions Plan for the upgrade of drainage infrastructure.
- Identifying land with drainage and flood constraints in the planning scheme.
- Developing Ecologically Sustainable Development Guidelines for the municipality.
- Investigating the appropriateness of a Local Planning Policy to guide ecologically sustainable development, for the municipality.

Other actions

- Continuing to liaise with Melbourne Water to co-operatively manage the stormwater and natural creek systems in the municipality.
- Continuing to monitor and review the operation of septic tank systems.
- Continuing to lobby Yarra Valley Water with regard to the sewer backlog program and the use of local alternative treatment technologies.
- Promoting the use of new technology in the treatment of wastewater for re-use.
- Implementing the *Manningham Drainage Strategy 2004-2014* (2004).
- Implementing the *Manningham Stormwater Management Plan* (2001).
- Implementing the *Domestic Wastewater Management Plan* (2002).
- Implementing *Manningham's Water15 – Sustainable Water Management Plan* (2005).

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Telecommunications and satellite dishes

Key issues

- Visual and environmental impact of telecommunication facilities and satellite dishes.

Objectives

- To ensure that any future telecommunications facilities and satellite dishes are located to minimise impacts on the environmental values of land
- To ensure that any future telecommunications facilities and satellite dishes are sited to minimise visual impacts on adjoining and nearby land.
- To ensure that telecommunication cables are situated underground.

Strategies

Strategies to achieve these objectives include:

- Encourage telecommunications infrastructure and satellite dishes, and arrangements for associated vehicle access and maintenance, in locations, which minimise environmental and visual impacts.
- Encourage the sharing of existing infrastructure for telecommunication facilities including the use of existing infrastructure such as roof-top locations or integrated with existing buildings.

- Require the application of low maintenance, non-reflective finishes and appropriate colour schemes to ensure telecommunication facilities and satellite dishes blend in with the surrounds.
- Require the undergrounding of new telecommunication cables.
- Require underground conduits to be installed with sufficient capacity to enable sharing of the conduit by other telecommunication carriers.

Implementation

These strategies will be implemented by:

Zones and overlays

Policy and exercise of discretion

Further strategic work

Other actions

- Preparing and continually updating a map showing existing telecommunication facilities to assist in the consideration of opportunities for co-location.
- Encouraging the design and location of low impact facilities to minimise visual impact.

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Reference documents

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- Manningham City Council (2003) *Manningham Integrated Transport Strategy*, Manningham City Council, Doncaster.
- Manningham City Council, Arup Transportation Planning (2001) *Manningham Bicycle Strategy*, Manningham City Council, Doncaster.
- Manningham City Council (2004) *Arterial Road Improvement Strategy*, Manningham City Council, Doncaster.
- Manningham City Council (2004) *Public Open Space Strategy*, Manningham City Council, Doncaster.
- Manningham City Council (2004) *Roadside Environmental Management Strategy*, Manningham City Council, Doncaster.
- Manningham City Council (2003) *Doncaster Hill Pedestrian and Cycle Plan*, Manningham City Council, Doncaster.
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- Manningham City Council (2002) *Strategic Gap Analysis for the Provision of New and Additional Infrastructure for the Park Orchards, Warrandyte, Donvale and Wonga Park Areas*.
- Port Phillip and Western Port Catchment Management Authority (2004) *Port Phillip and Western Port Regional Catchment Strategy 2004-2009*, Victoria.
- SGS Planning (2004) *Doncaster Hill Developer Contribution Plan*, Victoria.

INFRASTRUCTURE FRAMEWORK PLAN 6

