



Engineering standards

PDA guideline no. 13
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Introduction

Purpose

This guideline sets out the desired engineering standards for the design and construction of service infrastructure in priority development areas (PDAs).

Application

The guideline is intended to be used in the following circumstances:

- » by EDQ and its consultants to inform preparation of development schemes and interim land use plans (ILUPs) for PDAs;
- » by developers and their consultants to inform preparation of development applications for development in PDAs; and
- » by EDQ when assessing relevant development applications.

The guideline should be used and interpreted in conjunction with the relevant PDA development scheme (or ILUP) together with other relevant guidelines.

Relationship to development schemes and ILUPs

The guideline is subordinate to development schemes. Where a development scheme or ILUP specifies a principle, objective or standard that is different to the guideline, the development scheme or ILUP requirement applies. This approach recognizes that guidelines are generic in nature and have been prepared to apply broadly across a range of PDAs, whereas development schemes have been tailored to respond to the specific circumstances of an individual PDA and to reflect the outcomes of community consultation about that PDA.

The guideline applies where the development scheme or ILUP:

- » calls up the guideline, either in whole or in part, or
- » does not specifically address a relevant matter addressed in the guideline.



How to use the standards

The standards set out in this guideline are not mandatory requirements. The standards have been adopted by EDQ to provide developers and their consultants with a clear indication of the form, type and arrangement of development that is likely to be acceptable in PDAs.

Development proponents are able, and in fact are encouraged, to propose innovative, alternative solutions that can be demonstrated to achieve the objectives set out in the guideline or the PDA-wide criteria in a development scheme or ILUP.

Design and construction standards

	Standards/Guidelines/Manuals
Water and sewer	<ul style="list-style-type: none"> » SEQ Water Supply and Sewerage Design and Construction Code » Standards of the water and sewerage services provider¹
Stormwater quality	<ul style="list-style-type: none"> » Queensland Environmental Protection (Water) Policy 2009 » Queensland State Planning Policy 2016 - water quality » Water by Design: Concept Guidelines for WSUD 2009 » Water by Design: WSUD Technical Design Guidelines in SEQ 2006 » Water by Design: Bioretention Technical Design Guidelines 2012 » Water by Design: Music Modelling Guidelines 2011 » Water by Design: Framework for the Integration of Flooding and Stormwater Management into Open Space
Stormwater quantity	<ul style="list-style-type: none"> » Queensland Urban Drainage Manual 2013 (provisional) » Australian Rainfall and Runoff (ARR) 2016 » Australian Rainfall and Runoff (ARR): Project 11 Blockage of Hydraulic Structures (IEAust 2013)
Roads - major ²	<ul style="list-style-type: none"> » DTMR: Road Planning and Design Manual (2nd edition) » DTMR: Road Drainage Manual (2nd edition) » Austroads: Guide to Road Design
Roads - minor ³	<ul style="list-style-type: none"> » PDA: Guideline No. 6 Street and Movement Network » PDA: Practice Note No.12 Rear Lanes: design and development » Queensland Complete Streets - Guidelines for Urban Street Design » DTMR: Manual of Uniform Traffic Control Devices (MUTCD)
Vehicle parking	<ul style="list-style-type: none"> » Australian Standard: AS/NZS 2890 2009 - Parking facilities set » Austroads: Guide to Traffic Management Part 11: Parking
Pedestrian and cycle	<ul style="list-style-type: none"> » DTMR: Technical Note 128 Selection and Design of Cycle Tracks » Austroads: Guide to Road Design Part 6A: Pedestrian and Cyclist Paths » Australian Standard: AS2890.3 Parking facilities Part 3: Bicycle parking facilities » PDA: Guideline No. 6 Street and Movement Network
Public transport	<ul style="list-style-type: none"> » Translink: Public Transport Infrastructure Manual 2015 » DTMR: Planning for Safe Transport Infrastructure at Schools 2011 » DTMR: Road Planning and Design Manual (2nd edition)

¹ Water and sewerage providers outside of SEQ

² Roads in the hierarchy above trunk connector status, eg sub-arterial, arterial, freeway

³ All other roads

Public lighting	<ul style="list-style-type: none"> » Australian Standard: AS/NZS 1158 2010 - Lighting for roads and public spaces set » Australian Standard: AS4282-1997 Control of the Obtrusive Effects of Outdoor Lighting
Soil erosion	<ul style="list-style-type: none"> » International Erosion Control Association (IECA): Best Practice Erosion and Sediment Control 2008 » LGAQ: Introductory Erosion and Sediment Control Guidelines for Queensland Councils 2006
Earthworks	<ul style="list-style-type: none"> » Australian Standard: AS 3798 2007 Guidelines on earthworks for commercial and residential developments
Site access	<ul style="list-style-type: none"> » Relevant local government design standard
Contaminated soils	<ul style="list-style-type: none"> » DEHP: Acid Sulfate Soil Technical Manual: soil management guidelines V4.0 2014 » DEHP: Contaminated land assessment guideline 2014
Accessibility	<ul style="list-style-type: none"> » Australian Standard: AS1428 2010 - Design for Access and Mobility set
Constructed lakes	<ul style="list-style-type: none"> » Melbourne Water: Constructed Shallow Lake Systems V2 2005 » Mackay Regional Council: Engineering Design Guidelines - Constructed Lakes 2008
Broadband	<ul style="list-style-type: none"> » NBN Co Ltd 'New Developments: Deployment of the NBN Co Conduit and Pit Network – Guidelines for developers', 2013 » Communications Alliance: Industry Guideline G645:2011 Fibre Ready Pit and Pipe Specification for Real Estate Development Projects
Acoustic treatments (noise barriers)	<ul style="list-style-type: none"> » DTMR: Transport Noise Management Code of Practice 2013 - Volume 1 Road Traffic Noise » QR: Railway Noise Management Code Ver 2 2012



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