# State code 2: Development in a railway environment

## **Purpose statement**

The purpose of the code is to protect railway corridors, future railway corridors, rail transport infrastructure and other rail infrastructure from adverse impacts of development. The purpose of this code is also to protect the safety of people using, and living and working near, railways.

Specifically, this code seeks to ensure development:

- does not result in an increase in the likelihood or frequency of accidents, fatalities or serious injury for users of a railway;
- does not adversely impact the structural integrity or physical condition of railways, rail transport infrastructure or other rail infrastructure within a railway corridor;
- 3. does not compromise the operating performance of railway corridors;
- does not adversely impact the state's ability to plan, construct, maintain, upgrade or operate railway corridors, future railway corridors and associated rail transport infrastructure or other rail infrastructure;
- 5. does not significantly increase the cost to the state to plan, construct, maintain, upgrade or operate railway corridors, future railway corridors, rail transport infrastructure or other rail infrastructure;
- 6. does not compromise pedestrian or cycle access to **public passenger transport infrastructure** or **active transport infrastructure** associated with **railways**;
- 7. protects the community from significant adverse impacts resulting from environmental emissions generated by a **railway**.

## Performance outcomes and acceptable outcomes

**Table 2.1 Development in general** 

Performance outcomes	Acceptable outcomes	
Building, structures, infrastructure, services and utilities		
<b>PO1</b> Development does not create a safety hazard within the <b>railway corridor</b> .	No acceptable outcome is prescribed.	
PO2 Development does not cause damage to the railway corridor, rail transport infrastructure or other rail infrastructure.	No acceptable outcome is prescribed.	
PO3 Development does not interfere with, or obstruct, the rail transport infrastructure or other rail infrastructure.	No acceptable outcome is prescribed.	

#### Using this code

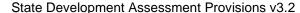
The assessment benchmarks for this code comprise:

- a purpose statement which identifies the overall intent of the code;
- performance outcomes which set benchmarks to achieve the purpose statement of the code:
- acceptable outcomes which identify one way to achieve the relevant performance outcome.

Development complies with the code where:

- it complies with the acceptable outcomes for the performance outcome; or
- it complies with all the performance outcomes, where not complying with the acceptable outcomes; or
- development does not meet relevant performance outcome(s) and SARA determines, on balance, that the development complies with the purpose statement.

This code also includes the glossary of terms for definitions relevant to this code and reference documents; including the guideline, **Guide to Development in a Transport**Environment: Rail which provides direction on how to address this code.



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Performance outcomes	Acceptable outcomes
PO4 Development does not adversely impact the	No acceptable outcome is prescribed.
structural integrity or physical condition of the railway, other rail infrastructure or the railway	
corridor by adding or removing loading.	
PO5 Development above a railway is designed to	No acceptable outcome is prescribed.
enable natural ventilation and smoke dispersion in	The acceptable outcome is prescribed.
the event of a fire emergency.	
PO6 Development does not adversely impact the	No acceptable outcome is prescribed.
operating performance of the <b>railway corridor</b> .	The deceptable edited in precention.
PO7 Buildings and structures in a railway corridor	No acceptable outcome is prescribed.
are designed and constructed to protect persons in	
the event of a derailed train.	
PO8 Buildings and structures in high risk	AO8.1 Buildings and structures, in a railway
<b>locations</b> and where also located within 10 metres	corridor, including foundations, retaining and other
of the centreline of the nearest <b>railway</b> track are	support elements, are designed and constructed in
design and constructed to protect persons in the	accordance with Civil Engineering Technical
event of a derailed train.	Requirement CIVIL-SR-012 Collision protection of
	supporting elements adjacent to <b>railways</b> ,
	Queensland Rail, 2011, AS5100 Bridge design, and
PO9 Buildings and structures are designed and	AS1170 Structural design actions.  AO9.1 The outermost projection of development is
constructed to protect people from electrocution.	set back horizontally a minimum of 3 metres from
constructed to protect people from electrocation.	the outermost projection of <b>overhead line</b>
	equipment.
PO10 Development in the railway corridor is	No acceptable outcome is prescribed.
designed and constructed to prevent projectiles	The deceptable edited in precention
being thrown onto the <b>railway</b> .	
PO11 Buildings, and structures with publicly	AO11.1 Publicly accessible areas located within 20
accessible or communal areas within 20 metres from	metre from the centreline of the nearest railway do
the centreline of the nearest railway track are	not overlook a <b>railway</b> .
designed and constructed to prevent projectiles from	
being thrown onto a <b>railway</b> .	OR
	A O 4 4 O D wild live as an all attractions as a second action and to
	AO11.2 Buildings and structures are designed to ensure publicly accessible areas located within 20
	metres from the centreline of the nearest <b>railway</b>
	track and that overlook the <b>railway</b> may include
	throw protection screens in accordance with the
	relevant provisions of the Civil Engineering
	Technical Requirement – CIVIL-SR005 Design of
	buildings over or near <b>railways</b> , Queensland Rail,
	2011, and the Civil Engineering Technical
	Requirement – CIVIL-SR008 Protection screens,
	Queensland Rail.
Stormwater and overland flow	
PO12 Stormwater run-off or overland flow from the	No acceptable outcome is prescribed.
development site does not create or exacerbate a	
safety hazard in a railway corridor.	
PO13 Stormwater run-off or overland flow from the	No acceptable outcome is prescribed.
development site does not result in a material	
worsening of operating performance of the railway corridor, rail transport infrastructure or other rail	
infrastructure.	
PO14 Stormwater run-off or overland flow from the	No acceptable outcome is prescribed.
development site does not interfere with the	Two acceptable outcome is prescribed.
structural integrity or physical condition of the	
and a state of the	



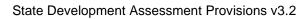
Performance outcomes	Acceptable outcomes
railway corridor, rail transport infrastructure or	Acceptable outcomes
other rail infrastructure.	
Flooding	
PO15 Development does not result in a material	No acceptable outcome is prescribed.
worsening of flooding impacts within a railway	No acceptable outcome is prescribed.
corridor.	
Drainage Infrastructure	
•	AO16 1 Drainage infractructure is whelly contained
PO16 Drainage infrastructure does not create a	AO16.1 Drainage infrastructure is wholly contained
safety hazard in a railway corridor.	within the development site.
	AND
	AO16.2 Drainage infrastructure can be maintained
	without requiring access to a railway corridor.
Construction Impacts	•
PO17 Construction activities do not cause ground	No acceptable outcome is prescribed.
movement or vibration impacts in a railway	·
corridor.	
Access	
PO18 Development prevents unauthorised access	AO18.1 Development abutting the railway corridor
to the railway corridor.	incorporates fencing along the property boundary
•	with the <b>railway corridor</b> in accordance with the
	railway manager's standards.
	AND
	AO18.2 A road barrier designed in accordance with
	Queensland Rail Civil Engineering Technical
	Requirement CIVIL-SR-007 – Design Criteria for
	Road Rail Barriers.
	AND
	AO18.3 Vehicle manoeuvring areas, driveways,
	loading areas and carparks abutting the railway
	corridor incorporate rail interface barriers along
	the boundary to the railway corridor.
PO19 Development maintains existing maintenance	AO19.1 Development does not obstruct existing
and authorised access to the <b>railway corridor</b> .	authorised access points and access routes for
and administration access to the raining, contract.	maintenance and emergency works to the <b>railway</b>
	corridor at all times.
PO20 Development does not impede the	AO20.1 Buildings and other structures are set back
maintenance of a <b>railway bridge</b> or authorised	horizontally a minimum of 3 metres from a <b>railway</b>
access to a railway bridge.	bridge.
	AND
	AND
	AO20.2 Permanent structures are not located
	AO20.2 Permanent structures are not located below or abutting a railway bridge.
	AO20.2 Permanent structures are not located
	AO20.2 Permanent structures are not located below or abutting a railway bridge.  AND
	AO20.2 Permanent structures are not located below or abutting a railway bridge.  AND  AO20.3 Temporary activities below or abutting a
	AO20.2 Permanent structures are not located below or abutting a railway bridge.  AND



Performance outcomes	Acceptable outcomes
PO21 Development does not compromise the safety of public passenger transport infrastructure and active transport infrastructure.	No acceptable outcome is prescribed.
PO22 Development maintains pedestrian and cycle access to a railway station or other public passenger transport infrastructure and active transport infrastructure associated with the railway.	No acceptable outcome is prescribed.
PO23 Development does not adversely impact the structural integrity or physical condition of public passenger transport infrastructure and active transport infrastructure.	No acceptable outcome is prescribed.
PO24 Development does not adversely impact the operating performance of public passenger transport infrastructure, public passenger services and active transport infrastructure.	No acceptable outcome is prescribed.
Planned upgrades	
PO25 Development does not impede delivery of planned upgrades of rail transport infrastructure.	No acceptable outcome is prescribed.
Network safety	
PO26 Development involving dangerous goods does not adversely impact on the safety or operations of the railway and rail transport infrastructure.	AO26.1 Development does not involve handling or storage of hazardous chemicals above the threshold quantities listed in table 5.2 of the Model Planning Scheme Development Code for Hazardous Industries and Chemicals, Office of Industrial Relations, Department of Justice and Attorney-General, 2016.

Table 2.2 Filling, excavation, building foundations and retaining structures

Performance outcomes	Acceptable outcomes
PO27 Development does not create a safety hazard	No acceptable outcome is prescribed.
for users of the railway or other rail infrastructure.	
PO28 Development does not adversely impact on	No acceptable outcome is prescribed.
the operating performance of the railway or other	
rail infrastructure within the railway corridor.	
<b>PO29</b> Development does not undermine, damage,	No acceptable outcome is prescribed.
or cause subsidence of, the railway corridor.	
PO30 Development does not adversely impact the	No acceptable outcome is prescribed.
structural integrity or physical condition of the	
railway, other rail infrastructure or the railway	
corridor by adding or removing loading.	
PO31 Development does not cause ground water	No acceptable outcome is prescribed.
disturbance in the railway corridor.	
PO32 Development does not adversely impact the	No acceptable outcome is prescribed.
railway or other rail infrastructure within the	·
railway corridor.	
PO33 Excavation, boring, piling, blasting, drilling, fill	No acceptable outcome is prescribed.
compaction or similar activities does not adversely	·
impact the operating performance of the railway or	
other rail infrastructure within the railway	
corridor.	
PO34 Filling and excavation material does not cause	AO34.1 Fill, spoil or any other material is not stored
an obstruction or nuisance in the railway corridor.	in, or adjacent to, the railway corridor.



#### **Table 2.3 Railway crossings**

Performance outcomes	Acceptable outcomes
PO35 Development does not require a new level railway crossing.	No acceptable outcome is prescribed.
PO36 Development does not adversely impact on the operating performance of an existing railway crossing.	No acceptable outcome is prescribed.
PO37 Development does not adversely impact on the safety of an existing railway crossing.	No acceptable outcome is prescribed.
<b>PO38</b> Development is designed and constructed to allow for on-site circulation to ensure vehicles do not queue in a <b>railway crossing</b> .	No acceptable outcome is prescribed.

#### **Table 2.4 Environmental emissions**

Statutory note: Where development is adjacent to a **railway** with 15 or fewer passing trains per day, compliance with table 2.4 is not required.

Performance outcomes	Acceptable outcomes
Reconfiguring a Lot	
Involving the creation of 5 or fewer new residentia	al lots adjacent to a railway or type 2 multi-modal
corridor	
PO39 Development minimises free field noise intrusion from a railway.	<ul> <li>AO39.1 Development provides a noise barrier or earth mound which is designed, sited and constructed:</li> <li>1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.1);</li> <li>2. in accordance with: <ul> <li>a. Civil Engineering Standard Specification QR-CTS-Part 41 – Part 41, Design and Construction of Noise Fences/Barriers, Queensland Rail, 2018;</li> <li>b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019;</li> <li>c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020.</li> </ul> </li> </ul>
	OR
	AO39.2 Development achieves the maximum free field acoustic levels in reference table 2 (item 2.1) by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.
	OR
	AO39.3 Development provides a solid gap-free fence or other solid gap-free structure along the full extent of the boundary closest to a railway.
Involving the creation of 6 or more new residential corridor	I lots adjacent to a railway or type 2 multi-modal
<b>PO40</b> Reconfiguring a lot minimises free field noise intrusion from a <b>railway</b> .	AO40.1 Development provides a noise barrier or earth mound which is designed, sited and constructed:  1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.1);  2. in accordance with:

- a. Civil Engineering Standard Specification QR-CTS-Part 41 – Part 41, Design and Construction of Noise Fences/Barriers;
- b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019;
- c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020.

OR

**AO40.2** Development achieves the maximum free field acoustic levels in reference table 2 (item 2.1) by **alternative noise attenuation measures** where it is not practical to provide a noise barrier or earth mound.

#### Material change of use (accommodation activity)

#### Ground floor level requirements adjacent to a railway or type 2 multi-modal corridor

**PO41** Development minimises noise intrusion from a **railway** in **private open space** at the ground floor.

**AO41.1** Development provides a noise barrier or earth mound which is designed, sited and constructed:

- to achieve the maximum free field acoustic levels in reference table 2 (item 2.2) for private open space at the ground floor level;
- 2. in accordance with:
  - a. Civil Engineering Standard Specification QR-CTS-Part 41 – Part 41, Design and Construction of Noise Fences/Barriers, Queensland Rail, 2018;
  - b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019;
  - Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020.

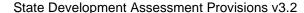
OR

**AO41.2** Development achieves the maximum free field acoustic level in reference table 2 (item 2.2) for **private open space** at the ground floor level by **alternative noise attenuation measures** where it is not practical to provide a noise barrier or earth mound.

PO42 Development (excluding a relevant residential building or relocated building) minimises noise intrusion from the railway in habitable rooms at the facade of the ground floor level.

**AO42.1** Development (excluding a **relevant residential building** or **relocated building**) provides a noise barrier or earth mound which is designed, sited and constructed:

- 1. to achieve the maximum building facade acoustic level in reference table 1 (item 1.1) for **habitable rooms** at the ground floor level;
- 2. in accordance with:
  - a. Civil Engineering Standard Specification QR-CTS-Part 41 – Part 41, Design and Construction of Noise Fences/Barriers, Queensland Rail, 2018;
  - Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019;.



	c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020.
	OR
	AO42.2 Development (excluding a relevant residential building or relocated building) achieves the maximum building facade acoustic level
	in reference table 1 (item 1.1) for habitable rooms at the ground floor level by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.
PO43 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in Table 3 (item 3.1).	No acceptable outcome is prescribed.
Above ground floor level requirements (accommo multi-modal corridor	dation activity) adjacent to a railway or type 2
PO44 Balconies, podiums and roof decks include:  1. a continuous solid gap-free structure or balustrade (excluding gaps required for drainage purposes to comply with the Building Code of Australia);  2. highly acoustically absorbent material treatment	No acceptable outcome is prescribed.
for the total area of the soffit above balconies, podiums and roof decks	
PO45 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference table 3 (item 3.1).	No acceptable outcome is prescribed.
Material change of use (other uses)	
	, educational establishment, hospital) adjacent to a
PO46 Development:  1. provides a noise barrier or earth mound that is designed, sited and constructed:  a. to achieve the maximum free field acoustic level in reference table 2 (item 2.3) for all outdoor education areas and outdoor	No acceptable outcome is prescribed.
play areas; b. in accordance with: i. Civil Engineering Standard Specification QR-CTS-Part 41 – Part 41, Design and Construction of Noise Fences/Barriers, Queensland Rail, 2018;	
ii. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; iii. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020; or 2. achieves the maximum free field acoustic level in	
reference table (item 2.3) for all <b>outdoor</b>	

education areas and outdoor play areas by	
alternative noise attenuation measures where	
it is not practical to provide a noise barrier or	
earth mound.	
PO47 Development involving a childcare centre	No acceptable outcome is prescribed.
or educational establishment:	
1. provides a noise barrier or earth mound that is	
designed, sited and constructed:	
a. to achieve the maximum building facade	
acoustic level in reference table 1 (item 1.2);	
b. in accordance with:	
i. Civil Engineering Standard	
Specification QR-CTS-Part 41 – Part	
41, Design and Construction of Noise	
Fences/Barriers, Queensland Rail,	
2018; or	
O salaiseas the man to sala the training	
2. achieves the maximum building facade acoustic	
level in reference table 1 (item 1.2) by alternative	
noise attenuation measures where it is not	
practical to provide a noise barrier or earth	
mound.	
PO48 Development involving:	No acceptable outcome is prescribed.
<ol> <li>indoor education areas and indoor play</li> </ol>	
areas; or	
2. sleeping rooms in a <b>childcare centre</b> ; or	
<ol><li>patient care areas in a hospital;</li></ol>	
achieves the maximum internal acoustic level in	
reference table 3 (items 3.2, 3.3 and 3.4).	
Above ground floor level requirements (childcare	
hospital) adjacent to a railway or type 2 multi-mod	
PO49 Development involving a childcare centre;	No acceptable outcome is prescribed.
or educational establishment which have	
balconies, podiums or elevated outdoor play areas	
predicted to exceed the maximum free field acoustic	
level in reference table 2 (item 2.3) due to noise	
from the railway are provided with:	
a continuous solid gap-free structure or	
balustrade (excluding gaps required for drainage	
purposes to comply with the Building Code of	
Australia); and	
2. highly acoustically absorbent material treatment	
for the total area of the soffit above balconies,	
podiums and elevated <b>outdoor play areas</b> .	
PO50 Development including:	No acceptable outcome is prescribed.
indoor education areas and indoor play areas	acceptable extention to procention.
in a childcare centre or educational	
establishment; or	
2. sleeping rooms in a <b>childcare centre</b> ; or	
3. <b>patient care areas</b> in a <b>hospital</b> located above	
ground level, is designed and constructed to	
achieve the maximum internal acoustic level in	
achieve the maximum internal acoustic level in	
reference table 2 (items 2.0.2.4)	
reference table 3 (items 3.2-3.4).  Air, light and vibration	



PO51 Private open space, outdoor education areas and outdoor play areas are protected from air quality impacts from a railway.	AO51.1 Each dwelling or unit has access to a private open space which is shielded from a railway by a building, noise barrier, solid gap-free fence, or other solid gap-free structure.
	OR
	AO51.2 Each outdoor education area and outdoor play area is shielded from a railway by a building, noise barrier, solid gap-free fence, or other solid gap-free structure.
PO52 Patient care areas within hospitals are protected from vibration impacts from a railway.	<b>AO52.1 Hospitals</b> are designed and constructed to ensure vibration in the patient treatment area does not exceed a vibration dose value of 0.1m/s <sup>1.75</sup> .  AND
	<b>AO52.2 Hospitals</b> are designed and constructed to ensure vibration in the ward of a <b>patient care area</b> does not exceed a vibration dose value of 0.4m/s <sup>1.75</sup> .
<b>PO53</b> Development is designed and sited to ensure light from infrastructure within, and use of, a <b>railway</b> does not:	No acceptable outcomes are prescribed.
1. intrude into buildings during night hours (10pm to 6am); and	
2. create unreasonable disturbance during evening hours (6pm to 10pm).	

#### Table 2.5 Development in a future railway corridor

Performance outcomes	Acceptable outcomes
PO54 Development does not impede the planning, design and delivery of rail transport infrastructure in a future railway corridor.	AO54.1 Development is not located in a future railway corridor.  OR both of the following acceptable outcomes apply:  AO54.2 The intensification of lots does not occur within a future railway corridor.
	AND  AO54.3 Development does not result in the landlocking of parcels once a future railway corridor is delivered.
PO55 Development, including filling, excavation, building foundations and retaining structures do not undermine or cause subsidence of a future railway corridor.	No acceptable outcome is prescribed.
PO56 Development does not result in a material worsening of stormwater, flooding, overland flow or drainage impacts in a future railway corridor.	No acceptable outcome is prescribed.

### Reference tables

Table 1: Maximum building facade acoustic levels

Applicable use	Acoustic levels
1.1: Accommodation activity	a. ≤65 dB(A) Leq (24 hour) facade corrected
	AND
	b. ≤87 dB(A) (single event maximum sound pressure level) facade corrected
1.2: Childcare centre or educational establishment	a. ≤65 dB(A) Leq (1 hour) facade corrected (maximum hour during opening hours)
	AND
	b. ≤87 dB(A) (single event maximum sound pressure level) facade corrected

#### Table 2: Maximum free field acoustic levels

Table 2. Maximum free field acoustic levels	
Applicable use	Acoustic levels
2.1: Private open space for residential lots	a. ≤62 dB(A) Leq (24 hour) free field
2.2: Private open space for an accommodation activity (including allotments created for a future accommodation activity)	AND
	b. ≤84 dB(A) (single event maximum sound pressure level) free field
2.3: Outdoor education areas and outdoor play areas in a childcare centre or educational establishment	a. ≤62 dB(A) Leq (12 hour) free field (between 6am and 6pm)
	AND
	b. ≤84 dB(A) (single event maximum sound pressure level) free field

#### **Table 3: Maximum internal acoustic levels**

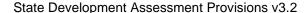
Applicable use	Acoustic levels
3.1: Habitable rooms in an accommodation activity (excluding uses addressed in QDC MP4.4)	≤45 dB(A) single event maximum sound pressure level
3.2: Indoor education areas and indoor play areas in a childcare centre or education establishment	≤50 dB(A) single event maximum sound pressure level
3.3: Sleeping rooms in a childcare centre	≤45 dB(A) single event maximum sound pressure level
3.4: Patient care areas in a hospital	

## Reference documents

Department of Transport and Main Roads, Guide to Development in a Transport Environment: Rail

Department of Transport and Main Roads 2016, Road Planning and Design Manual 2nd edition: Volume 3

Department of Transport and Main Roads 2016, <u>Transport Noise Management Code of Practice Volume 2:</u>
<u>Construction noise and vibration</u>



Department of Transport and Main Roads 2019, Technical Specification MRTS15 Noise Fences

Department of Transport and Main Roads 2020, Technical Specification MRTS04 General Earthworks

Institute of Public Works Engineering Australasia (Queensland Division) 2016, <u>Queensland Urban Drainage</u> <u>Manual</u>, Fourth edition.

Standards Australia 2000, AS1289.0-2000 – Methods of testing soils for engineering purposes

Standards Australia 2010, <u>AS2436–2010 – Guide to noise and vibration control on construction, demolition and maintenance sites</u>

Standards Australia 2005, AS4133.0–2005 - Methods of testing rocks for engineering purposes

Department of Infrastructure, Local Government and Planning 2016, <u>State Planning Policy – state interest</u> guideline: Emissions and hazardous activities

Department of Justice and Attorney-General (Office of Industrial Relations) 2016, <u>Model Planning Scheme</u> Development Code for Hazardous Industries and Chemicals

International Erosion Control Association Australasia (IECA), <u>Best Practice Erosion and Sediment Control document 2008</u>

## **Glossary of terms**

Accommodation activity means any of the following:

- 1. caretaker's accommodation;
- 2. community residence;
- 3. dual occupancy:
- 4. dwelling house;
- 5. dwelling unit;
- 6. multiple dwelling;
- 7. relocatable home park;
- 8. residential care facility;
- 9. resort complex;
- 10. retirement facility;
- 11. rooming accommodation;
- 12. short-term accommodation;
- 13. tourist park;
- 14. a development with a combination of uses 1 to 13.

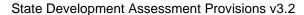
**Active transport infrastructure** means infrastructure for use in connection with active transport, including, for example, a path or walkway for use by pedestrians; a path, lane or other infrastructure for use by cyclists; or a device or facility designed and constructed for parking bicycles.

Alternative noise attenuation measures means a design outcome that:

- meets the relevant acoustic requirements within reference tables 1, 2 and 3 as demonstrated by a Noise Assessment Report, prepared by an appropriately qualified acoustic consultant and certified by a Registered Professional Engineer of Queensland (RPEQ);
- 2. is in accordance with the applicable structural, engineering and design requirements.

Childcare centre see schedule 24 of the Planning Regulation 2017.

Note: Childcare centre means the use of premises for the care, education and minding, but not residence, of children.



**DA mapping system** means the mapping system containing the Geographic Information System mapping layers kept, prepared or sourced by the state that relate to development assessment and matters of interest to the state in assessing development applications.

Note: The **DA mapping system** is available on the department's website.

Dangerous goods see schedule 1 of the Work Health and Safety Act 2011.

Note: Dangerous goods means:

- 1. asbestos; or
- 2. anything defined under the ADG Code as:
  - a. dangerous goods; or
  - b. goods too dangerous to be transported.

#### Educational establishment see schedule 24 of the Planning Regulation 2017.

Note: Educational establishment means the use of premises for:

- 1. training and instruction to impart knowledge and develop skills: or
- 2. student accommodation, before or after school care, or vacation care, if the use is ancillary to the use in paragraph 1.

#### Future railway corridor see schedule 24 of the Planning Regulation 2017.

Note: Future railway corridor means:

- 1. land identified in a guideline made under the *Transport Planning Act*, section 8E as a future transport corridor for:
  - a. rail transport infrastructure; or
  - b. other rail infrastructure; or
  - c. railway works; or
- future railway land.

See the DA mapping system.

#### Future railway land see section 242 of the Transport Infrastructure Act 1994.

Note: Land becomes **future railway land** when the chief executive [TIA], by written notice to the relevant local government and in the gazette, indicates that the land is intended to be used for a **railway. Future railway land** ceases to be **future railway land** when it is subleased to a **railway manager** under section 240(4) of the *Transport Infrastructure Act 1994*. If the chief executive [TIA] decides that **future railway land** is no longer to be used for the **railway**, the chief executive [TIA] must give written notice of that fact to the relevant local government and in the gazette.

#### Habitable room see the Building Code of Australia.

Note: **Habitable room** means a room used for normal domestic activities, and includes a bedroom, living room, lounge room, music room, television room, kitchen, dining room, sewing room, study, playroom, family room, home theatre and sunroom but excludes a bathroom, laundry, water closet, pantry, walk-in wardrobe, corridor, hallway, lobby, photographic darkroom, clothes-drying room, and other spaces of a specialised nature occupied neither frequently nor for extended periods.

**High risk location** means properties adjacent to the **railway corridor** where the risk of train derailment warrants a risk assessment and consideration of possible structural responses incorporated into adjacent development.

Note: See the DA mapping system.

#### Hospital see schedule 24 of the Planning Regulation 2017.

Note: Hospital means the use of premises for:

- 1. the medical or surgical care or treatment of patients, whether or not the care or treatment requires overnight accommodation; or
- 2. providing accommodation for patients; or
- 3. providing accommodation for employees, or any other use, if the use is ancillary to the use in paragraphs 1 or 2.

**Indoor education area** means an enclosed area within a **childcare centre** or **educational establishment** intended for use for the training or teaching of people including a classroom, lecture hall/theatre and library.

**Indoor play area** means an enclosed area within a **childcare centre** or **educational establishment** intended for use for children's play. This term excludes functional areas such as bathrooms, food preparation areas, washing facilities and other spaces of a specialised nature.

**Loading** means pressure or force exerted on land or infrastructure.

Other rail infrastructure see schedule 6 of the Transport Infrastructure Act 1994.

Note: Other rail infrastructure means:

- freight centres or depots;
- maintenance depots;
- 3. office buildings or housing;
- 4. rolling stock or other vehicles that operate on a railway;

State Development Assessment Provisions v3.2

State code 2: Development in a railway environment

- workshops;
- 6. any railway track, works or other thing that is part of anything mentioned in paragraphs 1 to 5.

**Outdoor education area** means outdoor areas intended for use for the training or teaching of persons. This term does not include playgrounds or outdoor sport and recreational areas.

#### Outdoor play area see the Queensland Development Code.

Note: **Outdoor play area** means an unenclosed area located outside the external walls of the building. This term only includes playgrounds/play areas in a **childcare centre** or **educational establishment**.

Overhead line equipment means overhead lines, cabling and associated structures used to provide power to electric trains.

#### Patient care area see the Building Code of Australia.

Note: **Patient care area** means a part of a health-care building normally used for the treatment, care, accommodation, recreation, dining and holding of patients including a ward area and treatment area. A ward area means that part of a **patient care area** for resident patients and may contain areas for accommodation, sleeping, associated living and nursing facilities. A treatment area means an area within a **patient care area** such as an operating theatre and rooms used for recovery, minor procedures, resuscitation, intensive care and coronary care from which a patient may not be readily moved.

**Planned upgrade** means an extension, upgrade, or duplication of state transport infrastructure or transport networks for which affected land has been identified:

- 1. in a publicly available government document; or
- 2. in written advice to affected land owners.

Note: Government documents are Commonwealth, state or local government documents that include a statement of intent for, or a commitment to, a planning outcome or infrastructure provision. See the **DA mapping system**.

Private open space means an outdoor space for the exclusive use of occupants of a dwelling.

#### Public passenger service see the Transport Operations (Passenger Transport) Act 1994.

Note: Public passenger service means a service for the carriage of passengers if:

- 1. the service is provided for fare or other consideration; or
- 2. the service is provided in the course of a trade or business (but not if it is provided by an employer solely for employees); or
- 3. the service is a courtesy or community transport service; and
- 4. includes a driver service and a service for the administration of taxi services, but does not include a service excluded from the Transport Operations (Passenger Transport) Act 1994 by a regulation.

#### Public passenger transport infrastructure see the Transport Planning and Coordination Act 1994.

Note: **Public passenger transport infrastructure** means infrastructure for, or associated with, the provision of public passenger transport, including, but not limited to:

- 1. a transit terminal for **public passenger services** (for example, an airport terminal, a coach terminal, a cruise ship terminal), or
- 2. a ferry terminal, jetty, pontoon or landing for ferry services; or
- 3. a bus stop, bus shelter, bus station or bus lay-by; or
- 4. a busway station; or
- 5. a light rail station; or
- 6. a taxi rank, limousine rank or limousine standing area; or
- 7. a railway station; or
- 3. vehicle parking and set-down facilities; or
- 9. pedestrian and bicycle paths and bicycle facilities; or
- 10. a road on which a public passenger transport service operates.

#### Rail transport infrastructure see schedule 6 of the *Transport Infrastructure Act 1994*.

Note: Rail transport infrastructure means facilities necessary for operating a railway, including:

- . railway track and works built for the railway, including, for example:
  - a. cuttings;
  - b. drainage works;
  - c. excavations;
  - d. land fill;
  - e. track support earthworks; and
- 2. any of the following things that are associated with the railway's operation:
  - a. bridges;
  - b. communication systems;
  - c. machinery and other equipment;
  - d. marshalling yards;
  - e. noticeboards, notice markers and signs;
  - f. overhead electrical power supply systems;
  - g. over-track structures;

- h. platforms;
- i. power and communication cables;
- service roads;
- k. signalling facilities and equipment;
- stations;
- m. survey stations, pegs and marks;
- n. train operation control facilities;
- o. tunnels;
- p. under-track structures; and
- vehicle parking and set down facilities for intending passengers for a railway that are controlled or owned by a railway manager or the chief executive [TIA]; and
- pedestrian facilities, including footpath paving, for the railway that are controlled or owned by a railway manager or the chief executive [TIA]:

but does not include other rail infrastructure.

#### Railway see schedule 6 of the Transport Infrastructure Act 1994.

Note: **Railway** means a guided system, or proposed guided system, designed for the movement of rolling stock that is capable of transporting passengers or freight, or both, on a **railway** track and:

- 1. includes:
  - rail transport infrastructure;
  - b. a railway being or proposed to be built on future railway land;
- but does not include:
  - a. rolling stock;
  - b. a railway mentioned in section 107(2) of the Transport Infrastructure Act 1994.

Railway bridge means a structure which crosses a watercourse, land, road or other obstacle, on which rail transport infrastructure or other rail infrastructure is located.

Railway corridor see schedule 24 of the Planning Regulation 2017.

Note: Railway corridor means:

- 1. land on which rail transport infrastructure or other rail infrastructure is situated; or
- 2. land on which railway works are carried out if the works relate to rail transport infrastructure or other rail infrastructure; or
- 3. land on which services for the maintenance or operation of **rail transport infrastructure** or **other rail infrastructure** are situated. See the **DA mapping system**.

#### Railway crossing see schedule 6 of the Transport Infrastructure Act 1994.

Note: Railway crossing means a level crossing, bridge or another structure used to cross over or under a railway.

#### Railway manager see schedule 6 of the Transport Infrastructure Act 1994.

Note: Railway manager means:

- 1. for a railway the person who is an accredited rail infrastructure manager in relation to railway operations relating to the railway; or
- for rail corridor land the person who is an accredited rail infrastructure manager in relation to railway operations relating to the railway or proposed railway on or proposed to be on the rail corridor land.

#### Railway works see schedule 6 of the Transport Infrastructure Act 1994.

Note: Railway works means:

- 1. works for constructing, maintaining, altering or operating a railway or rolling stock; or
- 2. works for establishing, constructing or maintaining transport infrastructure, other than rail transport infrastructure, that are:
  - a. directly related to paragraph 1; and
  - b. necessary for the safety, efficiency and operational integrity of transport infrastructure; or
- 3. other works declared under a regulation to be railway works.

## **Relevant residential building** see section 6 of the Queensland Development Code Mandatory Part 4.4: Buildings in a Transport Noise Corridor.

Note: A building is a relevant residential building if:

- 1. a building development application for the construction of the building is made after 31 August 2010
- 2. the building:
  - a. is a class 1, 2, 3 or building;
  - b. is located in a transport noise corridor;
  - c. is not a relocated building;
- 3. the building development approval for the construction of the building was not given under the building assessment provisions in force immediately before 1 September 2010, under section 37 of the *Building Act 1975*.

## **Relocated building** see section 7 of Queensland Development Code Mandatory Part 4.4: Buildings in a Transport Noise Corridor.

Note: A building is a **relocated building** if the building:

- 1. is a class 1, 2, 3 or 4 building;
- 2. was constructed on an allotment (the first allotment) where it was used as a residence;

State Development Assessment Provisions v3.2

- is relocated from:
  - a. the first allotment to another allotment; or
  - b. a site on the first allotment to another site on the first allotment.

**Retaining structures** means **structures** and systems such as walls, batters, anchors, bolts, soil nails, shoring, piles, piers, beams and similar **structures** used to retain fill or excavation.

#### Solid gap-free fence means a noise reducing fence that:

- 1. is a structurally fit for purpose fence;
- 2. a minimum of 1.8m in height;
- 3. built along the boundary with a state transport corridor:
- 4. made from materials with sound attenuating properties, limited to concrete blocks, or bricks, or fibre cement sheeting:
- 5. has no clearance gap at panel junctions, connections and under the fence (excluding gaps required for drainage purposes to comply with the Building Code of Australia):
- 6. has a return where the fence is not adjoining a solid gap-free fence or solid gap-free structure.

#### Solid gap-free structure means a noise reducing structure that:

- is structurally fit for purpose structure;
- 2. a minimum of 1.8 metres in height for a **structure** at ground level;
- 3. built along the boundary with a state transport corridor for a **structure** at ground level;
- 4. made from materials with sound attenuating properties, limited to concrete blocks, or bricks, or fibre cement sheeting has no clearance gap at panel junctions, connections and under the **structure** (excluding gaps required for drainage purposes to comply with the Building Code of Australia):
- 5. has a return where the fence is not adjoining a solid gap-free fence or solid gap-free structure.

Structure means any built structure as well as retaining structures.

**Structural integrity** means **structural integrity** is retention of the infrastructure's physical condition over time. This avoids an element of the **structure** breaking or malfunctioning causing the **structure** itself to fail, sooner than expected.

**Transport noise corridor** means land designated under chapter 8B of the *Building Act 1975* as a transport noise corridor.

**Type 2 multi-modal corridor** means a transport corridor that includes a **railway** (with 15 or more passing trains per day) and at least one of the following:

- 1. a state-controlled road; or
- 2. a busway; or
- 3. light rail.

