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| **Table 7.2.1.3.2 Assessable development - Kippa-Ring station precinct** |

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| **Performance outcomes** | **Examples that achieve aspects of the Performance Outcomes** | **E Compliance*** **Yes**
* **No See PO or**
* **NA**
 | **Justification for compliance** |
| **General criteria** |
| **Role of the precinct** |  |  |
| **PO1**Development:1. is consistent with the intended role of the precinct as a destination transit hub that serves as a gateway to the Redcliffe Peninsular centred on the railway station and bus interchange
2. supports the use of the station plaza as a place for the community and commuters to gather.
 | No example provided. |  |  |
| **Setbacks** |  |  |
| **PO2**Front building setbacks ensure buildings address and actively interface with streets and public spaces. | No example provided. |  |  |
| **PO3**Side and rear setbacks are of a dimension to:1. ensure impacts from the use are buffered an ameliorated;
2. compatible with established setbacks;
3. is sufficient to minimise overlooking and maintain privacy of adjoining properties;
4. is sufficient to ensure development is not visually dominant or overbearing on adjoining properties.
 | **E3**Minimum setback of all buildings and structures, unless otherwise indicated in a precinct, is:1. Side boundary - 3m;
2. Rear boundary - 3m.
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| **Site area** |  |  |
| **PO4**Site area is sufficient in area and dimension to accommodate the use, buildings and structures as well as required buffering measures, treatments, access, parking and manoeuvring.  | No example provided. |  |  |
| **Building height** |  |  |
| **PO5**Buildings and structures are of a height, scale and bulk which:1. respect existing amenity and character;
2. minimise the visual impact of large-scale built form;
3. do not result in a significant loss of amenity;
4. allows for distinctive and innovative design outcomes on prominent sites.
 | **E5**Building height does not exceed the maximum height identified on Overlay map – Building heights. |  |  |
| **Built form** |  |  |
| **PO6**Buildings and structures are designed and constructed to:1. incorporate a mix of colours and high quality materials to add diversification to treatments and finishes;
2. avoid blank walls through façade articulation to create visual interest and deter graffiti and vandalism;
3. activate and address the street, public areas and public open space;
4. reduce cluttering of plant and equipment on building roofs.
 | No example provided. |  |  |
| **Personal and property safety** |  |  |
| **PO7**Buildings structures and spaces are designed and constructed to create a safe and secure environment by incorporating key crime prevention through environmental design principles (CPTED), including: 1. casual surveillance opportunities and sight lines;
2. way-finding cues and signage;
3. defined different uses and private and public ownership through adequate fencing and signage;
4. light illuminates pathways and potential entrapment areas as well as maximising opportunities for penetration of natural light into spaces;
5. minimise predictable routes and entrapment locations.
 | No example provided. |  |  |
| **Amenity** |  |  |
| **PO8**The amenity of the area and adjacent sensitive land uses are protected from the impacts of dust, odour, noise, light, chemicals and other environmental nuisances.  | No example provided. |  |  |
| **Accessibility and permeability** |  |  |
| **PO9**Development contributes to greater permeability within the precinct by facilitating a network of convenient and safe pedestrian walkways, cycle ways and mid block connections.  | No example provided. |  |  |
| **Car parking** |  |  |
| **PO10**On-site car parking associated with an activity:1. provides safe and convenient on-site parking and manoeuvring to meet anticipated parking demand;
2. does not result adverse impacts on the efficient and safe functioning of the road network;
3. does not compromise the ongoing operation of existing or planned infrastructure and utilities.

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| Note - Refer to Planning scheme policy - Integrated transport assessment for guidance on how to achieve compliance with this outcome.  |

 | **E10**Car parking is provided in accordance with Schedule 7 - Car parking. |  |  |
| **PO11**The design of car parking areas:1. does not impact on the safety of the external road network;
2. ensures the safety of pedestrians at all times;
3. ensures the safe movement of vehicles within the site.
 | **E11**All car parking areas are designed and constructed in accordance with Australian Standard AS2890.1. |  |  |
| **Loading and servicing** |  |  |
| **PO12**Loading and servicing areas:1. are not visible from the street frontage;
2. are integrated into the design of the building;
3. include screening and buffers to reduce negative;
4. impacts on adjoining sensitive land uses are consolidated and shared with adjoining sites, where possible.

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| Note - An access easement may be required to be registered to ensure shared access between properties is permitted.Note - Refer to Planning scheme policy - Centre and neighbourhood hub design. |

 | No example provided. |  |  |
| **Waste** |  |  |
| **PO13**Bins and bin storage areas are provided, designed and managed in accordance with Planning scheme policy – Waste. | No example provided. |  |  |
| **Landscaping** |  |  |
| **PO14**Landscaping and screening is provided in a manner that:1. achieves a high level of privacy and amenity to sensitive land use on adjoining properties and when viewed from the street;
2. reduces the visual impact of building bulk and presence and hard surface areas on the local character and amenity of adjoining sensitive land use and from the street;
3. creates a secure and safe environment by incorporating key elements of crime prevention through environmental design;
4. achieves the design principles outlined in Planning scheme policy - Integrated design.
 | No example provided. |  |  |
| **Noise** |  |  |
| **PO15**Noise generating uses do not adversely affect existing or potential noise sensitive uses.

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| Note - The use of walls, barriers or fences that are visible from or adjoin a road or public area are not appropriate noise attenuation measures.  |
| Note - A noise impact assessment may be required to demonstrate compliance with this PO.  Noise impact assessments are to be prepared in accordance with Planning scheme policy - Noise.  |

 | No example provided.  |  |  |
| **PO16**Sensitive land uses are provided with an appropriate acoustic environment within designated external private outdoor living spaces and internal areas while: 1. contributing to safe and usable public spaces, through maintaining high levels of surveillance of parks, streets and roads that serve active transport purposes (e.g. existing or future pedestrian paths or cycle lanes etc);
2. maintaining the amenity of the streetscape.

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| Note - A noise impact assessment may be required to demonstrate compliance with this PO.  Noise impact assessments are to be prepared in accordance with Planning scheme policy - Noise.  |
| Note - Refer to Planning Scheme Policy – Integrated design for details and examples of noise attenuation structures. |

 | **E16.1**Development is designed to meet the criteria outlined in the Planning Scheme Policy – Noise. |  |  |
| **E16.2**Noise attenuation structures (e.g. walls, barriers or fences):1. are not visible from an adjoining road or public area unless:
	1. adjoining a motorway or rail line; or
	2. adjoining part of an arterial road that does not serve an existing or future active transport purpose (e.g. pedestrian paths or cycle lanes) or where attenuation through building location and materials is not possible.
2. do not remove existing or prevent future active transport routes or connections to the street network;
3. are located, constructed and landscaped in accordance with Planning scheme policy - Integrated design.

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| Note - Refer to Planning scheme policy – Integrated design for details and examples of noise attenuation structures. |
| Note - Refer to Overlay map – Active transport for future active transport routes. |

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| **Lighting** |  |  |
| **PO17**Lighting is designed to provide adequate levels of illumination to public and communal spaces to maximise safety while minimising adverse impacts on sensitive land uses.  | No example provided.  |  |  |
| **Clearing of habitat trees where not located within the Environmental areas overlay map** |  |  |
| **PO18**1. Development ensures that the biodiversity quality and integrity of habitats is not adversely impacted upon but maintained and protected.
2. Development does not result in the net loss of fauna habitat.  Where development does result in the loss of a habitat tree, development will provide replacement fauna nesting boxes at the following rate of 1 nest box for every hollow removed.  Where hollows have not yet formed in trees > 80cm in diameter at 1.3m height, 3 nest boxes are required for every habitat tree removed.
3. Development does not result in soil erosion or land degradation or leave land exposed for an unreasonable period of time but is rehabilitated in a timely manner

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| Note: Further guidance on habitat trees is provided in Planning scheme policy - Environmental areas |

 | No example provided. |  |  |

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| **Works criteria** |
| **Utilities** |  |  |
| **PO19**Where the site adjoins or is opposite to a Park([57](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448382)), foreshore or Humpybong Reserve all existing overhead power lines are to be undergrounded for the full frontage of the site.  | No example provided. |  |  |
| **PO20**The development is connected to an existing reticulated electricity supply system approved by the relevant energy regulating authority.  | **E20**Development is connected to underground electricity. |  |  |
| **PO21**The development has access to telecommunications and broadband services in accordance with current standards. | No example provided. |  |  |
| **PO22**Where available the development is to safely connect to reticulated gas. | No example provided. |  |  |
| **PO23**The development provides for the treatment and disposal of sewage and other waste water in a way that will not cause environmental harm or pose a risk to public health.  | **E23.1**Where in a sewered area, the development is connected to a reticulated sewerage network. |  |  |
| **E23.2**Trade waste is pre-treated on-site prior to discharging into the sewerage network. |  |  |
| **PO24**The development is provided with an adequate and sustainable supply of potable (drinking and general use e.g. gardening, washing, fire fighting) water.  | **E24**Where in an existing connections area or a future connections area as detailed in the Unitywater Connections Policy, the development is connected to the reticulated water supply system in accordance with the South East Queensland Water Supply and Sewerage Design and Construction Code and the relevant Water Service Association of Australia (WSAA) codes and standards.  |  |  |
| **PO25**The development is provided with constructed and dedicated road access. | No example provided. |  |  |
| **Access** |  |  |
| **PO26**Development provides functional and integrated car parking and vehicle access, that:1. prioritises the movement and safety of pedestrians between car parking areas at the rear through to the 'main street' and the entrance to the building (e.g. rear entry, arcade etc.);
2. provides safety and security of people and property at all times;
3. does not impede active transport options;
4. does not impact on the safe and efficient movement of traffic external to the site;
5. where possible vehicle access points are consolidated and shared with adjoining sites.

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| Note - Refer to Planning scheme policy - Centre and neighbourhood hub design for details and examples. |

 | No example provided. |  |  |
| **PO27**Where required, access easements contain a driveway and provision for services appropriate to the use. The easement covers all works associated with the access in accordance with Planning scheme policy - Integrated design.  | No example provided. |  |  |
| **PO28**The layout of the development does not compromise:1. the development of the road network in the area;
2. the function or safety of the road network;
3. the capacity of the road network.

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| Note - The road hierarchy is mapped on Overlay map - Road hierarchy. |

 | **E28.1**Direct vehicle access for residential development does not occur from arterial or sub-arterial roads or a motorway.

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| Editor's note - Residential developments should consider amalgamation with the lot to the rear and gaining access via a laneway. |
| Note - The road hierarchy is mapped on Overlay map - Road hierarchy. |

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| **E28.2**The development provides for the extension of the road network in the area in accordance with Council’s road network planning. |  |  |
| **E28.3**The development does not compromise future road widening of frontage roads in accordance with the relevant standard and Council’s road planning.  |  |  |
| **E28.4**The lot layout allows forward access to and from the site. |  |  |
| **PO29**Safe access is provided for all vehicles required to access the site. | **E29.1**Site access and driveways are designed and located in accordance with:1. Where for a Council-controlled road, AS/NZS2890.1 section 3; or
2. Where for a State-Controlled road, the Safe Intersection Sight Distance requirements in AustRoads and the appropriate IPWEAQ standard drawings, or a copy of a Transport Infrastructure Act 1994, section 62 approval.
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| **E29.2**Internal driveways and access ways are designed and constructed in accordance with AS/NZS2890.1 Parking Facilities – Off street car parking and the relevant standards in Planning scheme policy - Integrated design.

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| Note - This includes queue lengths (refer to Schedule 8 Service vehicle requirements), pavement widths and construction. |

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| **E29.3**Access driveways, manoeuvring areas and loading facilities provide for service vehicles listed in Schedule 8 Service vehicle requirements for the relevant use.  The on-site manoeuvring is to be in accordance with Schedule 8 Service vehicle requirements.  |  |  |
| **PO30**Upgrade works (whether trunk or non-trunk) are provided where necessary to:1. ensure the type or volume of traffic generated by the development does not have a negative impact on the external road network;
2. ensure the orderly and efficient continuation of the active transport network;
3. ensure the site frontage is constructed to a suitable urban standard generally in accordance with Planning scheme policy - Integrated design.

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| Note - An Integrated Transport Assessment (ITA) may be required to demonstrate compliance with this performance outcome refer to Planning scheme policy - Integrated transport assessment for guidance on when an ITA is required.  An ITA should be prepared in accordance with Planning scheme policy - Integrated transport assessment.  |
| Note - The road network is mapped on Overlay map - Road hierarchy. |

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| Note - The primary and secondary active transport network is mapped on Overlay map - Active transport. |
| Note - To demonstrate compliance with c. of this performance outcome, site frontage works where in existing road reserve (non-trunk) are to be designed and constructed as follows: 1. Where the street is partially established to an urban standard, match the alignment of existing kerb and channel and provide carriageway widening and underground drainage where required; or
2. Where the street is not established to an urban standard, prepare a design that demonstrates how the relevant features of the particular road as shown in the Planning scheme policy - Integrated Design can be achieved in the existing reserve.
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| Note - Refer to Planning scheme policy - Integrated design for road network and active transport network design standards. |

 | No example provided. |  |  |
| **Stormwater** |  |  |
| **PO31**Stormwater run-off from the site is conveyed to a point of lawful discharge without causing nuisance or annoyance to any person, property or premises.

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| Note - Refer to Planning scheme policy - Integrated design for details. |
| Note - A downstream drainage discharge report in accordance with Planning scheme policy - Stormwater management may be required to demonstrate achievement of this performance outcome.  |

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| Note - A watercourse as defined in the Water Act may be accepted as a lawful point of discharge providing the drainage discharge from the site does not increase the downstream flood levels during events up to and including the 1% AEP storm.  An afflux of +20mm may be accepted on Council controlled land and road infrastructure.  No worsening is ensured when stormwater is discharged into a catchment that includes State Transport Infrastructure.    |

 | No example provided. |  |  |
| **PO32**Stormwater generated from the development does not compromise the capacity of existing stormwater infrastructure downstream of the site.

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| Note - A downstream drainage discharge report in accordance with Planning scheme policy - Stormwater management may be required to demonstrate achievement of this performance outcome.  |

 | No example provided. |  |  |
| **PO33**Stormwater quality management systems are designed and constructed to minimise the environmental impact of stormwater discharge on surface and underground receiving water quality and meet the design objectives in Tables A and B in Appendix 2 of the SPP.

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| Note - A stormwater management plan prepared by a suitably qualified professional will be required in accordance with Planning scheme policy - Stormwater management.  |

 | No example provided. |  |  |
| **PO34**Easements for drainage purposes are provided over:1. stormwater pipes located in freehold land if the pipe diameter exceeds 300mm;
2. overland flow paths where they cross more than one property boundary.

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| Note - Refer to Planning scheme policy - Integrated design for details. |
| Note - Stormwater Drainage easement dimensions are provided in accordance with Section 3.8.5 of QUDM. |

 | No example provided. |  |  |
| **Site works and construction management** |  |  |
| **PO35**The site and any existing structures are maintained in a tidy and safe condition. | No example provided. |  |  |
| **PO36**All works on-site are managed to:1. minimise as far as practicable, impacts on adjoining or adjacent premises and the streetscape in regard to erosion and sedimentation, dust, noise, safety and light;
2. minimise as far as possible, impacts on the natural environment;
3. ensure stormwater discharge is managed in a manner that does not cause nuisance or annoyance to any person or premises;
4. avoid adverse impacts on street trees and their critical root zone.
 | **E36.1**Works incorporate temporary stormwater runoff, erosion and sediment controls and trash traps designed in accordance with the Urban Stormwater Quality Planning Guidelines, Planning scheme policy - Stormwater management and Planning scheme policy - Integrated design, including but not limited to the following: 1. stormwater is not discharged to adjacent properties in a manner that differs significantly from pre-existing conditions;
2. stormwater discharged to adjoining and downstream properties does not cause scour and erosion;
3. stormwater discharge rates do not exceed pre-existing conditions;
4. the 10% AEP storm event is the minimum design storm for all temporary diversion drains; and
5. the 50% AEP storm event is the minimum design storm for all silt barriers and sedimentation basins.
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| **E36.2**Stormwater runoff, erosion and sediment controls are constructed prior to commencement of any clearing or earthworks and are maintained and adjusted as necessary at all times to ensure their ongoing effectiveness.

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| Note - The measures are adjusted on-site to maximise their effectiveness. |

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| **E36.3**The completed earthworks area is stabilised using turf, established grass seeding, mulch or sprayed stabilisation techniques to control erosion and sediment and dust from leaving the property.  |  |  |
| **PO37**Dust suppression measures are implemented during soil disturbances and construction works to protect nearby premises from unreasonable dust impacts.  | No example provided. |  |  |
| **PO38**All works on-site and the transportation of material to and from the site are managed to not negatively impact the existing road network, the amenity of the surrounding area or the streetscape.

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| Note - Where the amount of imported or exported material is greater than 50m3, a haulage route must be identified and approved by Council.  |

 | **E38.1**Construction traffic including contractor car parking is controlled in accordance with a traffic management plan, prepared in accordance with the Manual of Uniform Traffic Control Devices (MUTCD) to ensure all traffic movements to and from the site are safe.  |  |  |
| **E38.2**All contractor car parking is either provided on the development site, or on an alternative site in the general locality which has been set aside for car parking.  Contractors vehicles are generally not to be parked in existing roads.

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| Note - A Traffic Management Plan may be required for the site in accordance with the Manual of Uniform Traffic Control Devices (MUTCD).  |

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| **E38.3**Any material dropped, deposited or spilled on the road(s) as a result of construction processes associated with the site are to be cleaned at all times.  |  |  |
| **PO39**All disturbed areas are rehabilitated at the completion of construction.

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| Note - Refer to Planning scheme policy - Integrated design for details. |

 | **E39**At completion of construction all disturbed areas of the site are to be:1. topsoiled with a minimum compacted thickness of fifty (50) millimetres;
2. grassed.

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| Note - These areas are to be maintained during any maintenance period to maximise grass coverage from grass seeding of these areas.  |

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| **PO40**The clearing of vegetation on-site:1. is limited to the area of infrastructure works, building areas and other necessary areas for the works; and
2. includes the removal of declared weeds and other materials which are detrimental to the intended use of the land;
3. is disposed of in a manner which minimises nuisance and annoyance to existing premises.

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| Note - No burning of cleared vegetation is permitted. |

 | **E40.1**All native vegetation to be retained on-site is temporarily fenced or protected prior to and during development works.

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| Note - No parking of vehicles of storage of machinery or goods is to occur in these areas during development works. |

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| **E40.2**Disposal of materials is managed in one or more of the following ways:1. all cleared vegetation, declared weeds, stumps, rubbish, car bodies, scrap metal and the like are removed and disposed of in a Council land fill facility; or
2. all native vegetation with a diameter below 400mm is to be chipped and stored on-site.

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| Note - The chipped vegetation must be stored in an approved location, preferably a park or public land. |

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| **PO41**Any alteration or relocation in connection with or arising from the development to any service, installation, plant, equipment or other item belonging to or under the control of the telecommunications authority, electricity authorities, the Council or other person engaged in the provision of public utility services is to be carried with the development and at no cost to Council.  | No example provided. |  |  |
| **Earthworks** |  |  |
| **PO42**On-site earthworks are designed to consider the visual and amenity impact as they relate to:1. the natural topographical features of the site;
2. short and long-term slope stability;
3. soft or compressible foundation soils;
4. reactive soils;
5. low density or potentially collapsing soils;
6. existing fill and soil contamination that may exist on-site;
7. the stability and maintenance of steep rock slopes and batters;
8. excavation (cut) and fill and impacts on the amenity of adjoining lots (e.g. residential).

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| Note - Filling or excavation works are to be completed within six months of the commencement date. |

 | **E42.1**All cut and fill batters are provided with appropriate scour, erosion protection and run-off control measures including catch drains at the top of batters and lined batter drains as necessary.  |  |  |
| **E42.2**Stabilisation measures are provided, as necessary, to ensure long-term stability and low maintenance of steep rock slopes and batters.  |  |  |
| **E42.3**Inspection and certification of steep rock slopes and batters is required by a suitably qualified and experienced RPEQ. |  |  |
| **E42.4**All filling or excavation is contained on-site. |  |  |
| **E42.5**All fill placed on-site is:1. limited to that required for the necessary approved use;
2. clean and uncontaminated (i.e. no building waste, concrete, green waste or contaminated material etc. is used as fill).
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| **E42.6**The site is prepared and the fill placed on-site in accordance with AS3798.

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| Note - The fill is to be inspected and tested in accordance with Planning scheme policy - Operational works inspection, maintenance and bonding procedures.  |

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| **E42.7**Materials used for structural fill are in accordance with AS3798. |  |  |
| **PO43**Embankments are stepped, terraced and landscaped to not adversely impact on the visual amenity of the surrounding area. | **E43**Any embankments more than 1.5 metres in height are stepped, terraced and landscaped.**Figure - Embankment** Embankment |  |  |
| **PO44**Filling or excavation is undertaken in a manner that:1. does not adversely impact on a Council or public sector entity maintained infrastructure or any drainage feature on, or adjacent to the land;
2. does not preclude reasonable access to a Council or public sector entity maintained infrastructure or any drainage feature on, or adjacent to the land for monitoring, maintenance or replacement purposes.

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| Note - Public sector entity as defined in the Sustainable Planning Act 2009. |

 | **E44.1**No filling or excavation is undertaken in an easement issued in favour of Council or a public sector entity.

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| Note - Public sector entity as defined in the Sustainable Planning Act 2009. |

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| **E44.2**Filling or excavation that would result in any of the following is not carried out on-site:1. a reduction in cover over any Council or public sector entity infrastructure service to less than 600mm;
2. an increase in finished surface grade over, or within 1.5m on each side of, the Council or public sector entity infrastructure above that which existed prior to the earthworks being undertaken.

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| Note - Public sector entity as defined in the Sustainable Planning Act 2009. |

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| **PO45**Filling or excavation does not result in land instability.

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| Note - Steep rock slopes and batters are inspected and certified for long-term stability by a suitably qualified and experienced geotechnical engineer with RPEQ qualifications. Stabilisation measures are provided, as necessary, to ensure long-term stability and low maintenance.  |

 | No example provided. |  |  |
| **PO46**Development does not result in1. adverse impacts on the hydrological and hydraulic capacity of the waterway or floodway;
2. increased flood inundation outside the site;
3. any reduction in the flood storage capacity in the floodway;
4. and any clearing of native vegetation.

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| Note - To demonstrate compliance with this outcome, Planning Scheme Policy - Stormwater Management provides guidance on the preparation of a site based stormwater management plan by a suitably qualified professional.  Refer to Planning scheme policy - Integrated design for guidance on infrastructure design and modelling requirements.  |

 | No example provided. |  |  |
| **Retaining walls and structures** |  |  |
| **PO47**All earth retaining structures provide a positive interface with the streetscape and minimise impacts on the amenity of adjoining residents.  | **E47**Earth retaining structures:1. are not constructed of boulder rocks or timber;
2. where height is no greater than 900mm, are provided in accordance with Figure - Retaining on a boundary;

  **Figure - Retaining on boundary** Retaining on boundary1. where height is greater than 900mm but no greater than 1.5m, are to be setback at least the equivalent height of the retaining structure from any property boundary;
2. where height is greater than 1.5m, are to be setback and stepped 1.5m vertical: 1.5m horizontal, terraced, landscaped and drained as shown below.

**Figure - Cut** Cut**Figure - Fill** Fill |  |  |
| **Fire Services**

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| Note - The provisions under this heading only apply if:1. the development is for, or incorporates:
	1. reconfiguring a lot for a community title scheme creating 1 or more vacant lots; or
	2. material change of use for 2 or more sole occupancy units on the same lot, or within the same community titles scheme; or
	3. material change of use for a Tourist park([84](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449196)) with accommodation in the form of caravans or tents; or
	4. material change of use for outdoor sales([54](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448307)), outdoor processing or outdoor storage where involving combustible materials.

AND1. none of the following exceptions apply:
	1. the distributor-retailer for the area has indicated, in its netserv plan, that the premises will not be served by that entity’s reticulated water supply; or
	2. every part of the development site is within 60m walking distance of an existing fire hydrant on the distributor-retailer’s reticulated water supply network, measured around all obstructions, either on or adjacent to the site.
 |
| Note - The provisions under this heading do not apply to buildings that are required by the Building Code of Australia to have a fire hydrant system complying with Australian Standard AS 2419.1 (2005) – Fire Hydrant Installations or other fire fighting facilities which provide equivalent protection.  |

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| **PO48**Development incorporates a fire fighting system that:1. satisfies the reasonable needs of the fire fighting entity for the area;
2. is appropriate for the size, shape and topography of the development and its surrounds;
3. is compatible with the operational equipment available to the fire fighting entity for the area;
4. considers the fire hazard inherent in the materials comprising the development and their proximity to one another;
5. considers the fire hazard inherent in the surrounds to the development site;
6. is maintained in effective operating order.

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| Note - The Queensland Fire and Emergency Services is the entity currently providing the fire fighting function for the urban areas of the Moreton Bay Region.  |

 | **E48.1**External fire hydrant facilities are provided on site to the standard prescribed under the relevant parts of *Australian Standard AS 2419.1 (2005) – Fire Hydrant Installations*.

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| Note - For this requirement for accepted development, the following are the relevant parts of AS 2419.1 (2005) that may be applicable: 1. in regard to the form of any fire hydrant - Part 8.5 and Part 3.2.2.1, with the exception that for Tourist parks([84](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449196)) or development comprised solely of dwellings and their associated outbuildings, single outlet above-ground hydrants or suitably signposted in-ground hydrants would be an acceptable alternative;
2. in regard to the general locational requirements for fire hydrants - Part 3.2.2.2 (a), (e), (f), (g) and (h) as well as Appendix B of AS 2419.1 (2005);
3. in regard to the proximity of hydrants to buildings and other facilities - Part 3.2.2.2 (b), (c) and (d), with the exception that:
	1. for dwellings and their associated outbuildings, hydrant coverage need only extend to the roof and external walls of those buildings;
	2. for caravans and tents, hydrant coverage need only extend to the roof of those tents and caravans;
	3. for outdoor sales([54](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448307)), processing or storage facilities, hydrant coverage is required across the entire area of the outdoor sales([54](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448307)), outdoor processing and outdoor storage facilities;
4. in regard to fire hydrant accessibility and clearance requirements - Part 3.5 and, where applicable, Part 3.6.
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| **E48.2**A continuous path of travel having the following characteristics is provided between the vehicle access point to the site and each external fire hydrant and hydrant booster point on the land: 1. an unobstructed width of no less than 3.5m;
2. an unobstructed height of no less than 4.8m;
3. constructed to be readily traversed by a 17 tonne HRV fire brigade pumping appliance;
4. an area for a fire brigade pumping appliance to stand within 20m of each fire hydrant and 8m of each hydrant booster point.
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| **E48.3**On-site fire hydrant facilities are maintained in effective operating order in a manner prescribed in *Australian Standard AS1851 (2012) – Routine service of fire protection systems and equipment*.  |  |  |
| **PO49**On-site fire hydrants that are external to buildings, as well as the available fire fighting appliance access routes to those hydrants, can be readily identified at all times from, or at, the vehicular entry point to the development site.  | **E49**For development that contains on-site fire hydrants external to buildings:1. those external hydrants can be seen from the vehicular entry point to the site; or
2. a sign identifying the following is provided at the vehicular entry point to the site:
	1. the overall layout of the development (to scale);
	2. internal road names (where used);
	3. all communal facilities (where provided);
	4. the reception area and on-site manager’s office (where provided);
	5. external hydrants and hydrant booster points;
	6. physical constraints within the internal roadway system which would restrict access by fire fighting appliances to external hydrants and hydrant booster points.

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| Note - The sign prescribed above, and the graphics used are to be:1. in a form;
2. of a size;
3. illuminated to a level;

which allows the information on the sign to be readily understood, at all times, by a person in a fire fighting appliance up to 4.5m from the sign.  |

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| **PO50**Each on-site fire hydrant that is external to a building is signposted in a way that enables it to be readily identified at all times by the occupants of any firefighting appliance traversing the development site.  | **E50**For development that contains on-site fire hydrants external to buildings, those hydrants are identified by way of marker posts and raised reflective pavement markers in the manner prescribed in the technical note *Fire hydrant indication system* produced by the Queensland Department of Transport and Main Roads.

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| Note - Technical note Fire hydrant indication system is available on the website of the Queensland Department of Transport and Main Roads.  |

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| **Use specific criteria** |
| **Redcliffe Activity Centre Strategy** |  |  |
| **PO51**Development does not compromise opportunities that may be identified in the Redcliffe activity centre strategy. | No example provided. |  |  |
| **Major electricity infrastructure(**[43](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448008)**), substation(**[80](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449077)**) and utility installation** ([86](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449256)) |  |  |
| **PO52**The development does not have an adverse impact on the visual amenity of a locality and is:1. high quality design and construction;
2. visually integrated with the surrounding area;
3. not visually dominant or intrusive;
4. located behind the main building line;
5. below the level of the predominant tree canopy or the level of the surrounding buildings and structures;
6. camouflaged through the use of colours and materials which blend into the landscape;
7. treated to eliminate glare and reflectivity;
8. landscaped;
9. otherwise consistent with the amenity and character of the zone and surrounding area.
 | **E52.1**Development is designed to minimise surrounding land use conflicts by ensuring infrastructure, buildings, structures and other equipment: 1. are enclosed within buildings or structures;
2. are located behind the main building line;
3. have a similar height, bulk and scale to the surrounding fabric;
4. have horizontal and vertical articulation applied to all exterior walls.
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| **E52.2**A minimum 3m wide strip of dense planting is provided around the outside of the fenced area, between the development and street frontage, side and rear boundaries.  |  |  |
| **PO53**Infrastructure does not have an impact on pedestrian health and safety. | **E53**Access control arrangements:1. do not create dead-ends or dark alleyways adjacent to the infrastructure;
2. minimise the number and width of crossovers and entry points;
3. provide safe vehicular access to the site;
4. do not utilise barbed wire or razor wire.
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| **PO54**All activities associated with the development occur within an environment incorporating sufficient controls to ensure the facility: 1. generates no audible sound at the site boundaries where in a residential setting; or
2. meet the objectives as set out in the Environmental Protection (Noise) Policy 2008.
 | **E54**All equipment which produces audible or non-audible sound is housed within a fully enclosed building incorporating sound control measures sufficient to ensure noise emissions meet the objectives as set out in the Environmental Protection (Noise) Policy 2008.  |  |  |
| **Telecommunications facility** ([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122))

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| Editor's note - In accordance with the Federal legislation Telecommunications facilities ([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122))must be constructed and operated in a manner that will not cause human exposure to electromagnetic radiation beyond the limits outlined in the Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2003 and Radio Protection Standard for Maximum Exposure Levels to Radiofrequency Fields - 3Khz to 300Ghz.  |

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| **PO55**Telecommunications facilities([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122)) are co-located with existing telecommunications facilities([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122)), Utility installation([86](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449256)), Major electricity infrastructure([43](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448008)) or Substation([80](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449077)) if there is already a facility in the same coverage area.  | **E55.1**New telecommunication facilities([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122)) are co-located on existing towers with new equipment shelter and associated structures positioned adjacent to the existing shelters and structures.  |  |  |
| **E55.2**If not co-located with an existing facility, all co-location opportunities have been investigated and fully exhausted within a 2km radius of the site.  |  |  |
| **PO56**A new Telecommunications facility([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122)) is designed and constructed to ensure co-masting or co-siting with other carriers both on the tower or pole and at ground level is possible in the future.  | **E56**A minimum of 45m2 is available at ground level to allow for additional equipment shelters and associated structures for the purpose of co-locating on the proposed facility.  |  |  |
| **PO57**Telecommunications facilities([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122)) do not conflict with lawful existing land uses both on and adjoining the site.  | **E57**The development results in no net reduction in the minimum quantity and standard of landscaping, private or communal open space or car parking spaces required under the planning scheme or under an existing development approval.  |  |  |
| **PO58**The Telecommunications facility([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122)) does not have an adverse impact on the visual amenity of a locality and is: 1. high quality design and construction;
2. visually integrated with the surrounding area;
3. not visually dominant or intrusive;
4. located behind the main building line;
5. below the level of the predominant tree canopy or the level of the surrounding buildings and structures;
6. camouflaged through the use of colours and materials which blend into the landscape;
7. treated to eliminate glare and reflectivity;
8. landscaped;
9. otherwise consistent with the amenity and character of the zone and surrounding area.
 | **E58.1**Where in an urban area, the development does not protrude more than 5m above the level of the existing treeline, prominent ridgeline or building rooftops in the surrounding townscape.  |  |  |
| **E58.2**In all other areas towers do not exceed 35m in height. |  |  |
| **E58.3**Towers, equipment shelters and associated structures are of a design, colour and material to:1. reduce recognition in the landscape;
2. reduce glare and reflectivity.
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| **E58.4**All structures and buildings are setback behind the main building line and a minimum of 10m from side and rear boundaries, except where in the Industry and Extractive industry zones, the minimum side and rear setback is 3m. Where there is no established building line the facility is located at the rear of the site. |  |  |
| **E58.5**The facility is enclosed by security fencing or by other means to ensure public access is prohibited. |  |  |
| **E58.6**A minimum 3m wide strip of dense planting is provided around the perimeter of the fenced area, between the facility and street frontage and adjoining uses.

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| Note - Landscaping is provided in accordance with Planning scheme policy - Integrated design. |
| Note - Council may require a detailed landscaping plan, prepared by a suitably qualified person, to ensure compliance with Planning scheme policy - Integrated design.  |

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| **PO59**Lawful access is maintained to the site at all times that does not alter the amenity of the landscape or surrounding uses. | **E59**An Access and Landscape Plan demonstrates how 24 hour vehicular access will be obtained and maintained to the facility in a manner that is appropriate to the site’s context.  |  |  |
| **PO60**All activities associated with the development occur within an environment incorporating sufficient controls to ensure the facility generates no audible sound at the site boundaries where in a residential setting.  | **E60**All equipment comprising the Telecommunications facility([81](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e449122)) which produces audible or non-audible sound is housed within a fully enclosed building incorporating sound control measures sufficient to ensure no noise from this equipment can be heard, or felt at the site boundary.  |  |  |

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| **Values and constraints criteria**

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| Note - The relevant values and constraints criteria do not apply where the development is consistent with a current Development permit for Reconfiguring a lot or Material change of use or Operational work, where that approval has considered and addressed (e.g. through a development footprint plan (or similar in the case of Landslide hazard) or conditions of approval) the identified value or constraint under this planning scheme.  |

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| **Acid sulfate soils - (refer Overlay map - Acid sulfate soils to determine if the following requirements apply)**

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| Note - To demonstrate achievement of the performance outcome, an Acid sulfate soils (ASS) investigation report and soil management plan is prepared by a qualified engineer.  Guidance for the preparation an ASS investigation report and soil management plan is provided in Planning scheme policy - Acid sulfate soils.  |

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| **PO61**Development avoids disturbing acid sulfate soils. Where development disturbs acid sulfate soils, development:1. is managed to avoid or minimise the release of surface or groundwater flows containing acid and metal contaminants into the environment;
2. protects the environmental and ecological values and health of receiving waters;
3. protects buildings and infrastructure from the effects of acid sulfate soils.
 | **E61**Development does not involve:1. excavation or otherwise removing of more than 100m3 of soil or sediment where below than 5m Australian Height datum AHD; or
2. filling of land of more than 500m3 of material with an average depth of 0.5m or greater where below the 5m Australian Height datum AHD.
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| **Heritage and landscape character (refer Overlay map - Heritage and landscape character to determine if the following requirements apply)**

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| Note - To assist in demonstrating achievement of heritage performance outcomes, a Cultural heritage impact assessment report is prepared by a suitably qualified person verifying the proposed development is in accordance with The Australia ICOMOS Burra Charter. Note - To assist in demonstrating achievement of this performance outcome, a Tree assessment report is prepared by a qualified arborist in accordance with Planning scheme policy – Heritage and landscape character.  The Tree assessment report will also detail the measures adopted in accordance with AS 4970-2009 Protection of trees on development sites. Note - Places, including sites, objects and buildings having local cultural heritage significance, are identified on Overlay map - Heritage and landscape character and listed in Schedule 1 of Planning scheme policy - Heritage and landscape character.  Places also having cultural heritage significance at a State level and being entered in the Queensland Heritage Register, are also identified in Schedule 1 of Planning scheme policy - Heritage and landscape character.  |

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| **PO62**Development will:1. not diminish or cause irreversible damage to the cultural heritage values present on the site, and associated with a heritage site, object or building;
2. protect the fabric and setting of the heritage site, object or building;
3. be consistent with the form, scale and style of the heritage site, object or building;
4. utilise similar materials to those existing, or where this is not reasonable or practicable, neutral materials and finishes;
5. incorporate complementary elements, detailing and ornamentation to those present on the heritage site, object or building;
6. retain public access where this is currently provided.
 | **E62**Development is for the preservation, maintenance, repair and restoration of a site, object or building of cultural heritage value.

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| Note - A cultural heritage conservation management plan for the preservation, maintenance, repair and restoration of a site, object or building of cultural heritage value is prepared in accordance with Planning scheme policy - Heritage and landscape character. The plan is sent to, and approved by Council prior to the commencement of any preservation, maintenance, repair and restoration works.  |

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| **PO63**Demolition and removal is only considered where:1. a report prepared by a suitably qualified conservation architect or conservation engineer demonstrates that the building is structurally unsound and is not reasonably capable of economic repair; or
2. demolition is confined to the removal of outbuildings, extensions and alterations that are not part of the original structure; or
3. limited demolition is performed in the course of repairs, maintenance or restoration; or
4. demolition is performed following a catastrophic event which substantially destroys the building or object.
 | No example provided. |  |  |
| **PO64**Where development is occurring on land adjoining a site of cultural heritage value, the development is to be sympathetic to and consistent with the cultural heritage values present on the site and not result in their values being eroded, degraded or unreasonably obscured from public view.  | No example provided. |  |  |
| **PO65**Development does not adversely impact upon the health and vitality of significant trees. Where development occurs in proximity to a significant tree, construction measures and techniques as detailed in AS 4970-2009 Protection of trees on development sites are adopted to ensure a significant tree's health, wellbeing and vitality. Significant trees are only removed where they are in a poor state of health or where they pose a health and safety risk to persons or property. A Tree Assessment report prepared by a suitably qualified arborist confirming a tree's state of health is required to demonstrate achievement of this performance outcome.  | **E65**Development does:1. not result in the removal of a significant tree;
2. not occur within 20m of a protected tree;
3. involve pruning of a tree in accordance with Australian Standard AS 4373-2007 – Pruning of Amenity Trees.

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| **Overland flow path (refer Overlay map - Overland flow path to determine if the following requirements apply)**

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| Note - The applicable river and creek flood planning levels associated with defined flood event (DFE) within the inundation area can be obtained by requesting a flood check property report from Council.  |

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| **PO66**Development:1. minimises the risk to persons from overland flow;
2. does not increase the potential for damage from overland flow either on the premises or other premises, public land, watercourses, roads or infrastructure.
 | No example provided. |  |  |
| **PO67**Development:1. maintains the conveyance of overland flow predominantly unimpeded through the premises for any event up to and including the 1% AEP for the fully developed upstream catchment;
2. does not concentrate, intensify or divert overland flow onto an upstream, downstream or surrounding property.

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| Note - A report from a suitably qualified Registered Professional Engineer Queensland is required certifying that the development does not increase the potential for significant adverse impacts on an upstream, downstream or surrounding premises.  |
| Note - Reporting to be prepared in accordance with Planning scheme policy – Flood hazard, Coastal hazard and Overland flow. |

 | No example provided. |  |  |
| **PO68**Development does not:1. directly, indirectly or cumulatively cause any increase in overland flow velocity or level;
2. increase the potential for flood damage from overland flow either on the premises or other premises, public lands, watercourses, roads or infrastructure.

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| Note - Open concrete drains greater than 1m in width are not an acceptable outcome, nor are any other design options that may increase scouring.  |

 | No example provided. |  |  |
| **PO69**Development ensures that public safety and the risk to the environment are not adversely affected by a detrimental impact of overland flow on a hazardous chemical located or stored on the premises.  | **E69**Development ensures that a hazardous chemical is not located or stored in an Overland flow path area.

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| Note - Refer to the Work Health and Safety Act 2011 and associated Regulation and Guidelines, the Environmental Protection Act 1994 and the relevant building assessment provisions under the Building Act 1975 for requirements related to the manufacture and storage of hazardous substances.  |

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| **PO70**Development which is not in a Rural zone ensures that overland flow is not conveyed from a road or public open space onto a private lot.  | **E70**Development which is not in a Rural zone that an overland flow paths and drainage infrastructure is provided to convey overland flow from a road or public open space area away from a private lot.  |  |  |
| **PO71**Development ensures that inter-allotment drainage infrastructure, overland flow paths and open drains through private property cater for overland flows for a fully developed upstream catchment and are able to be easily maintained.

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| Note - A report from a suitably qualified Registered Professional Engineer Queensland is required certifying that the development does not increase the potential for significant adverse impacts on an upstream, downstream or surrounding premises.  |
| Note - Reporting to be prepared in accordance with Planning scheme policy – Flood hazard, Coastal hazard and Overland flow |

 | **E71.1**Development ensures that roof and allotment drainage infrastructure is provided in accordance with the following relevant level as identified in QUDM: 1. Urban area – Level III;
2. Rural area – N/A;
3. Industrial area – Level V;
4. Commercial area – Level V.
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| **E71.2**Development ensures that inter-allotment drainage infrastructure is designed to accommodate any event up to and including the 1% AEP for the fully developed upstream catchment.  |  |  |
| **PO72**Development protects the conveyance of overland flow such that an easement for drainage purposes is provided over:1. a stormwater pipe if the nominal pipe diameter exceeds 300mm;
2. an overland flow path where it crosses more than one premises;
3. inter-allotment drainage infrastructure.

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| Note - Refer to Planning scheme policy - Integrated design for details and examples. |
| Note - Stormwater Drainage easement dimensions are provided in accordance with Section 3.8.5 of QUDM. |

 | No example provided. |  |  |
| **Additional criteria for development for a Park(**[57](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448382)**)** |  |  |
| **PO73**Development for a Park([57](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448382)) ensures that the design and layout responds to the nature of the overland flow affecting the premises such that: 1. public benefit and enjoyment is maximised;
2. impacts on the asset life and integrity of park structures is minimised;
3. maintenance and replacement costs are minimised.
 | **E73**Development for a Park([57](http://consult.moretonbay.qld.gov.au/portal/mbrcpsv3?pointId=s1332743658181#target-d60297e448382)) ensures works are provided in accordance with the requirements set out in Appendix B of the Planning scheme policy - Integrated design.  |  |  |