

## Existing Road and Car Park Photos:



North Piha carpark



Anawhata carpark





Winstone Track carpark off Piha Road



North Piha carpark

### Roads and Car Parks on Regional Parkland at Piha:

Park roads and carparks provide convenience and direct access to popular destinations at Piha. However, wide roads and carparks at Piha can significantly detract from the enjoyment of the qualities of the natural setting and they can affect biological corridors and fragment habitats by creating barriers to growth.

Roads and carparks need to be designed to withstand wear and tear, provide the service of proximity to destinations while minimising ecological disturbance. The use of vegetation in a carpark or alongside a road is not only important for biological function, but also for mitigating adverse effects of the development. Where possible, vegetation should be used instead of structural barriers for traffic calming measures. Carparks are often large open-spaced areas in close proximity to natural attractions. It is recommended that carparks are based on single-lane circulation (one way in, one way out) to minimise the width of surface area across the carpark.

### Potential Design Improvements:





IMPROVEMENTS : Low planted 'islands' sporadically placed along car park edge to break expanse of sealed area.

Road and Car Park Guideline Diagrams:



## Design Exemplars:



Scandrett Regional Park



Ngarunui Beach, Raglan



Muriwai Regional Park



Ngarunui Beach, Raglan

# Road and Car Park Design Checklist:

DESIGN WITH NATURE AND SENSE OF PLACE	
<ul> <li>Responds to site history, culture, geology and landscape</li> <li>Earthworks kept to a minimum</li> <li>Energy conscious and renewable materials</li> <li>Vegetation undisturbed on car park boundary</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
SITING AND LOCATION	
<ul> <li>Shade and shelter from existing trees</li> <li>Backdrop of landform or vegetation</li> <li>Car park does not sit on ridge line</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
FIT FOR PURPOSE/ ACCESSIBILITY	
<ul> <li>Design for main user groups</li> <li>Close to important recreation areas</li> <li>Barrier free where possible</li> <li>Surface design appropriate for climate and classification</li> <li>Circulation (one way in, one way out)</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
FORM	
• Tie into the natural landform - follows contours (leveled parking where appropriate)	EXCELLENT     ADEQUATE     NOT ADEQUATE
AESTHETICS	
<ul> <li>Design enhances appeal of the natural environment</li> <li>Design acclimatises people to the setting</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
COLOUR AND TEXTURE	
<ul> <li>Materials and colours that blend with the local landscape</li> <li>Natural materials chosen that weather with time</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
SCALE AND BALANCE	
<ul> <li>Car park scale relative to location</li> <li>Relative to human scale</li> <li>In context of other developments, buildings and structures within the vicinity.</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE

VISIBILITY	
<ul> <li>Site lines and view shafts maintained</li> <li>Create new visual cues towards roads and car parks when proposing new development</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
CLUSTERING AND ECOLOGICAL FOOTPRINT	
• Ecological footprint of carpark kept to a minimum	EXCELLENT     ADEQUATE     NOT ADEQUATE
SAFETY	
<ul> <li>Community ownership of asset encouraged</li> <li>Car park in close proximity to high activity areas to encourage informal surveillence</li> <li>Use of traffic calming measures - narrow lanes, central islands/medians, curved road, raised crossings, chicanes.</li> <li>Use of shared space techniques if appropriate (pedestrians/ cyclists/ vehicles)</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
MAINTAINENCE	
<ul> <li>Regular maintainence can be undertaken with ease</li> <li>Cost efficient design</li> <li>Flexible to seasonal change, weathering and erosion</li> <li>Construction materials should be easily transported to the site</li> <li>Vandalism deterrant stratagies should be considered</li> <li>Materials chosen that withstand wear and tear</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
Materials chosen that withstand wear and tear	
Materials chosen that withstand wear and tear CULTURAL HERITAGE	
	EXCELLENT  ADEQUATE  NOT ADEQUATE
CULTURAL HERITAGE	EXCELLENT
CULTURAL HERITAGE  • Respect cultural heritage sites (refer to section.4.5)	EXCELLENT
CULTURAL HERITAGE  • Respect cultural heritage sites (refer to section.4.5)  ALTERNATIVES	EXCELLENT
CULTURAL HERITAGE         • Respect cultural heritage sites (refer to section.4.5)         ALTERNATIVES         • Alternative sites considered	EXCELLENT
CULTURAL HERITAGE         • Respect cultural heritage sites (refer to section.4.5)         ALTERNATIVES         • Alternative sites considered	EXCELLENT

# **3.3 TRACK DESIGN GUIDELINES**



## Existing Track Photos:









Lion Rock Track

Marawhara Track

Tasman Lookout Track

Kitekite Track





White Track

White Track

White Track

Kitekite Track

## Track Descriptions and Standards (refer to Regional Parks Management Plan):

Track type	Description	Location Arrival zones only and selected destinations designed for people with disabilities or limited mobility.	
Paths	<ul> <li>Commonly consist of sealed, concrete or compacted gravel surfaces, and may contain timber boardwalks and bridges over permanent waterways</li> <li>Sensitive ecosystems and tree roots will be avoided or, if necessary, bridged</li> <li>Sign-posted with directional signs at track entrances and junctions and safety signs where required</li> <li>Easy grades, with all-weather surfaces, and if necessary, steps</li> <li>Seats and viewing platforms may be provided at areas of interest and limited mobility access will be provided in a range of selected locations</li> </ul>		
Walking tracks	<ul> <li>Generally consist of a compacted and drained surface and may contain timber boardwalks and bridges over permanent wet areas and waterways</li> <li>Sensitive ecosystems and tree roots will be avoided or, if necessary bridged</li> <li>Sign-posted with directional signs at track entrances and junctions and safety signs where required</li> <li>Easy to moderate grades with drained surfaces with limited provision of steps on excessively steep areas. Suitable walking foot ware is recommended</li> <li>Seats may be provided at areas of interest and key views maintained</li> </ul>	Commonly offering walks of up to 1 hour from arrival zones.	
Tramping tracks	<ul> <li>Tramping tracks will consist of formed and drained surfaces</li> <li>Permanent wet areas may be bridged with rafts, where appropriate, but waterways will not generally be bridged</li> <li>Sensitive ecosystems and tree roots will be avoided or, if necessary, bridged</li> <li>Tracks may contain steep grades and difficult terrain where suitable tramping foot ware is recommended</li> <li>Track entrances and key junctions will be signposted</li> <li>Seats may be provided at areas of interest and key views maintained</li> </ul>	Generally outside main arrival and destination zones but may provide direct access to remote areas from arrival areas.	
Routes	<ul> <li>Consist of unformed trails with marker posts only</li> <li>Seats may be provided at areas of interest and key views maintained</li> </ul>	Open farmland and areas outside main arrival and destination zones.	
Shared-use Tracks and Roads	<ul> <li>Walking and tramping tracks that have appropriate topography and track design may be used for other purposes such as mountain biking</li> <li>Internal park roads and service roads may be used as shared-use tracks but walking, tramping and running will take precedence</li> <li>Sign posted as multi-use with user hierarchy outlined</li> </ul>	Appropriate tracks and internal park roads and service roads within a park.	

#### Tracks on Regional Parkland at Piha:

Tracks in the Piha area provide recreational opportunities within bush and coastal settings that are removed from many of the sounds, sights and smells of the city. They enhance the physical and social wellbeing of people in the region, provide accessible routes from one location to another and connect to significant natural or cultural sites. Tracks in the Piha area can reach quite steep terrain and are exposed to high levels of rainfall during the winter months. Material specification is often hard to propose to ensure the track is suitable from both an aesthetic point of view and is practical from a maintenance perspective.

New tracks and the realignment of existing tracks should follow these recommendations:

- Track surfaces should be relative to the type of activity they have been designed for whether it be walking or tramping (refer to Track Description Chart on page 44)
- Tracks should be maintained at a reasonable standard consistent with their historical use.
- Tracks need to be designed to withstand wear and tear but avoid formalisation through straight lines and hard surfaces (urban elements). The

use of natural surfaces and structures is desired as long as the design is consistent with levels of use

- Re-routing of tracks should be considered to avoid dips, wet spots and rare plant species.
- Care must be taken when managing/clearing track side vegetation to ensure continued protection of threatened plants.
- Mitigate adverse environmental impacts such as erosion or impacts on sensitive ecosystems, tree roots and areas affected by pathogens, such as Kauri dieback and disease.
- Signage should be kept to track entrances and car parks. If required, low-impact signage may be implemented along the route to notify changes in track type or to ensure only well-equipped trampers proceed past a certain point on the track.
- Provision of looped tracks or consideration of return journeys by linking a number of tracks where appropriate.

#### Potential Design Improvements:



ADEQUATE

NOT ADEQUATE

## Track Guideline Diagrams:



### **Design Exemplars:**











Boardwalk design

ARC Piha track

Footbridge design

ARC Piha track

Waitangi Park, Wellington

# Tracks Design Checklist:

DESIGN WITH NATURE AND SENSE OF PLACE	
<ul> <li>Responds to site history, culture, geology and landscape</li> <li>Earthworks kept to a minimum</li> <li>Energy conscious and renewable materials</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
SITING AND LOCATION	
<ul> <li>Vegetated edge</li> <li>Where possible ensure rracks do not sit on ridge line or in highly visibile location</li> <li>Logical location for track</li> <li>Track destinations considered</li> <li>Avoid tree roots and rare plants on track side when proposing track location</li> </ul>	EXCELLENT  ADEQUATE  NOT ADEQUATE
FIT FOR PURPOSE/ ACCESSIBILITY	
<ul> <li>Design for main user groups</li> <li>Barrier free where possible</li> <li>Surface design appropriate for climate and classification</li> <li>Appropriate for seasonal use patterns</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
FORM	
• Tie into the natural landform	EXCELLENT     ADEQUATE     NOT ADEQUATE
AESTHETICS	
<ul> <li>Design enhances appeal of the natural environment</li> <li>Design acclimatises people to the setting</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
COLOUR AND TEXTURE	
<ul> <li>Materials and colours that blend with the local landscape</li> <li>Natural materials chosen that weather with time</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
SCALE AND BALANCE	
<ul> <li>Track scale (height above ground and width) relative to location</li> <li>Relative to human scale</li> <li>Relevant in context of other developments, buildings, structures and viewpoints within the vicinity.</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE

VISIBILITY	
<ul> <li>Site lines and view shafts maintained</li> <li>Create new visual cues towards tracks when proposing new development</li> </ul>	EXCELLENT  ADEQUATE  NOT ADEQUATE
CLUSTERING AND ECOLOGICAL FOOTPRINT	
Ecological footprint of track kept to a minimum	EXCELLENT     ADEQUATE     NOT ADEQUATE
SAFETY	
<ul> <li>Community ownership of asset encouraged</li> <li>Well maintained and good quality structures to encourage high use of track</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
MAINTAINENCE	
<ul> <li>Regular maintenance can be undertaken with ease</li> <li>Cost efficient design</li> <li>Flexible to seasonal change, weathering and erosion</li> <li>Construction materials should be easily transported to the site</li> <li>Vandalism deterrent stratagies should be considered</li> </ul>	EXCELLENT     ADEQUATE     NOT ADEQUATE
<ul> <li>Cost efficient design</li> <li>Flexible to seasonal change, weathering and erosion</li> <li>Construction materials should be easily transported to the site</li> </ul>	
<ul> <li>Cost efficient design</li> <li>Flexible to seasonal change, weathering and erosion</li> <li>Construction materials should be easily transported to the site</li> <li>Vandalism deterrent stratagies should be considered</li> </ul>	
<ul> <li>Cost efficient design</li> <li>Flexible to seasonal change, weathering and erosion</li> <li>Construction materials should be easily transported to the site</li> <li>Vandalism deterrent stratagies should be considered</li> </ul>	ADEQUATE ADEQUATE NOT ADEQUATE EXCELLENT ADEQUATE
<ul> <li>Cost efficient design</li> <li>Flexible to seasonal change, weathering and erosion</li> <li>Construction materials should be easily transported to the site</li> <li>Vandalism deterrent stratagies should be considered</li> </ul> CULTURAL HERITAGE <ul> <li>Respect cultural heritage sites (refer to section.4.5)</li> </ul>	ADEQUATE ADEQUATE NOT ADEQUATE EXCELLENT ADEQUATE
