THREE KINGS RENEWAL MASTER PLAN REPORT 15H-1 02.09.2014



FLETCHER RESIDENTIAL SUKFACEDESIGN INC. tattico

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3.1 The Vision

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he Three Kings Master plan Report presents the culmination of a 18 month public engagement process, and work between Auckland Council, local community representatives, local board representatives, lwi representatives, Antipodean, HNZ and Fletcher over the future of the Three Kings town centre, the former Winstone quarry site and immediate surrounding areas. The proposal introduces new dwellings and open spaces whilst bringing together existing communities and park reserves.

STUDY AREA

The Master plan takes an integrated approach to the former quarry land and surrounding areas to produce a consolidated outcome for Three Kings and the town centre. The study area includes the former Three Kings Quarry; Crown land to the south and west of the quarry; Three Kings town centre; Three Kings Oval; Three Kings School; Big King Reserve and surrounding communities adjacent to Mt Eden Road. Mt Albert Road and Strathfield Avenue.

At a regional level, the Master plan introduces and strengthens linkages and access to new and existing open space assets such as Big King Reserve and Three Kings Oval for the community.

MASTER PLAN OBJECTIVES

The essential goal of the Master plan is to produce a framework and strategy for the remediation and redevelopment of the former guarry site whilst being conscious of the opportunities and impacts such a development would introduce to the surrounding land parcels and local stakeholders.

In doing so, the Master plan stitches together land previously disconnected by the quarry with existing open space assets. New green linkages are proposed to provide a seamless connection to and through the site for the community.

The Master plan respects and celebrates existing topographical assets such as Te Tatua a Riukiuta (Big King), Maungawhau (Mt Eden) and Maungakiekie (One Tree Hill). Through careful references to these landmarks, the proposed development is firmly sited within the Auckland volcanic landscape. The aim is to create a world class community that Aucklanders are proud of, want to live in and invest in.

BACKGROUND AND PURPOSE

The Three Kings Renewal project provides a unique opportunity for the residential redevelopment of a brownfield site located close to the CBD. It achieves the objectives of the Operative District Plan (Isthmus Section), proposed Unitary Plan (Unitary Plan) and Auckland Plan, particularly those relating to growth; high guality development; provision of infrastructure, and avoiding, remedying or mitigating environmental effects arising from development.

An integrated approach to planning allows the needs of the community, as well as the surrounding stakeholders to be considered. It will provide shared benefits including a more considered response to remediating the site, as well as providing better linkages and accessibility to the open spaces and facilities in the surrounding area, making the area safer and more attractive to the community.

This Master plan provides a co-ordinated approach to redevelop the quarry. It creates a local centre and a medium to high density residential precinct for local and regional users which respects and enhances the best aspects of the site. The plan uses the following planning and design themes:

- Environment Water •
- •
- Building and architecture

MASTER PLAN STRUCTURE

This report outlines the study process, key findings and proposals. Following the introduction and vision, key findings of an analysis on opportunity and constraints, are outlined in Chapter 4.0.

To create a world class community that Aucklanders are proud of, want to live in and invest in.

Recreation and Community Facilities Traffic, Access and Circulation Culture and Heritage Character and Visual Amenity

1.0 EXECUTIVE SUMMARY

The Principles and Strategies in Chapter 5.0 identify how the issues and opportunities from the analysis are developed into a strategic vision for the future.

The Master plan is presented as a comprehensive Master plan design that illustrates the function, activity and character precincts within the plan. Chapter 6.0 introduces the plan and describes the major precincts; the Town Square, The Green, Western Terraces, Mt Eden Road Hilltop (Winstone Precinct), The Bush Precinct and The Riu Precinct.

PROCESS

The Master plan is a result of a continued collaboration between Fletcher, Auckland Council, local community stakeholders, Housing New Zealand, Antipodean Properties, local board representatives and Iwi representatives. Key community interests relate to access, open space, housing availability and affordability and the rehabilitation of the former quarry in a responsible and sensitive manner.

These community interests are supplemented with technical knowledge from specialist consultants and historical data from the quarry archives. Technical studies on key issues such as environment, water, transport, heritage and recreation have been carried out to identify core urban design strategies that would satisfy both community needs as well as technical requirements.

The draft Master plan, prepared through consultation with Auckland Council, local community stakeholders, local board representatives and Iwi Collective, was exhibited to the public on 1 February 2014. Feedback has been incorporated in this Master plan report.

HOLISTIC APPROACH

The holistic approach taken in the design of this Master plan involves looking at the surrounding area beyond the Fletcher Concrete and Infrastructure Ltd owned land. The involvement of the surrounding stakeholders offers the opportunity of using the quarry

as a connector that would stitch together existing open spaces and facilities around the guarry, creating a network that will allow visitors to conveniently travel between these existing open spaces, whilst enjoying new parklands and community facilities within the development. The potential land exchange to the south of the guarry opens up the possibility of creating a large open green space within the development for sporting and leisure uses of the community.

The ability to connect to and integrate with surrounding land uses will allow the guarry site to act as a local hub for the surrounding community, providing a range of retail and business services facilities, community facilities as well as a range of residential living options.

PRINCIPLES AND STRATEGIES

Seven key themes have been highlighted through preliminary investigations and community discussions. The Master plan recognises important principles and strategies that would be crucial to the successful manifestation of each theme.

Environment/Biodiversity

Rehabilitate and remediate former guarry land

The process of guarrying in the past has resulted in the subject site having a concave topography up to 40 metres below surrounding land. The Master plan will introduce initiative to rehabilitate and repair the former quarry in a sustainable, sensitive and responsible manner.

Consented filling operations are being carried out within the quarry to reduce the level differences from the base of the valley to adjacent communities. Architectural elements and vegetation that respect and take advantage of the quarry topography will be introduced to enable the site to be redeveloped into housing accommodation and parklands.

Maunga Apron

The steep slopes against the Maunga will be protected and stabilised by enhancement of existing and targeted revegetation. This strategy provides a green apron to the south-eastern edge of the Maunga, expanding its footprint, and bringing the Maunga further into the site.

Introduce local volcanic flora to guarry slopes The proposal aims to reinstate much of the original flora that was found on the volcanic slopes. This will include a variety of trees and shrubs such as the pohutakawas and other native bush plantings. By doing this the biodiversity of the area will be improved and be consistent with the surrounding suburbs.

Water

Through past quarry operations, the existing site has been excavated below the regional water table. Existing groundwater management infrastructure has been in continuous operation since 2001 to manage water flows and through connection to the aquifer. The Master plan seeks to manage water as a visible resource through the introduction of wetlands and other Water Sensitive Urban Design initiatives.

Improve water quality on site and the recharge of the aquifer

The proposal will utilise a network of wetlands and rain gardens integrated into the streetscapes to aid in the filtration of stormwater runoff. This combined with the filtration properties of the scoria layer already located on site will help ensure that water entering the aguifer below is clean.

Harvest water for use in the landscape

The precincts within the Three Kings site will each contain rainwater retention areas to enable reuse of rainwater through communal landscape areas. The unique existing access to a reticulated groundwater management system will allow for irrigation of the significant landscape amenity proposed for the development. This central controlled facility will enhance vegetation growth and provide for a rapid improvement in the biodiversity on the site.

Manage stormwater overflow in active recreational spaces

The Master plan will utilise active recreational spaces to manage stormwater overflow. Stormwater will be directed to areas of open space to enable water retention then flow gradually towards the markets and community gatherings. wetland holding zones around the periphery of the quarry.

The Master plan will also manage the collection and filtration of Areas of recreation are located adjacent to apartments and mixed Culture and Heritage stormwater from off-site locations in the suburb of Three Kings.

Recreation and Community Facilities

Big King Reserve and Three Kings Oval are existing recreational Transport, Access and Circulation spaces adjacent to the site that have been disconnected by the quarry. The Master plan proposes a series of open spaces within the subject *Ensure safe and convenient pedestrian access to and through the* site that would allow better accessibility to these existing recreational site assets as well as offering new open spaces to the community.

Provide linkages to existing open space

The proposal recognises its place within an existing open space network and enhances connections between them. It achieves these This includes walkways connecting the variety of open spaces. by identifying existing links and reinforcing them within the site. This can be seen through the bush trails along the west of the site linking Big King Reserve to Grahame Breed Drive and the Three Kings Town Universal access is achieved by recognising the sites unique Centre and Three Kings Park.

Introduce a variety of spaces for active and passive recreation

Principal active and passive recreation spaces will be centrally located within the site and provides both active and passive recreational Public Bus routes currently service the area along Mt Eden Road functions. For active recreation it provides two soccer fields and a cricket pitch. When an organised event is not underway The 'Green' is made available for general recreational uses. Passive recreation is Eden Road. also facilitated through informal landscape terracing and bush trails throughout the site.

Integrate communal and cultural activities with open spaces

In conjunction with these active and passive uses communal and cultural facilities are closely integrated into the proposal. The Town

Square is located to the south of The 'Green' and is connected by a Establish a hierarchy of streets around and within the development combination of stairs, ramps and a public lift. This square will provide Due to the site's different level to the surrounding area a clear opportunities for communal and civic functions such as retail spillout,

Ensure recreation spaces are safe and accessible

use buildings with active frontages to provide passive surveillance. This helps to ensure that these areas maintain a sense of activity and use through the day.

Many areas of pedestrian movement are faced by apartments regional character. and terraces with active frontages. This helps to provide passive surveillance of these areas. Pathways which are not actively fronted will feature adequate street lighting to ensure safety and convenience.

Provide universal access

topography and ensures that acceptable gradients are achieved throughout the site where possible.

Encourage links to public transport

and Mt Albert Road. To ensure that the residents have access to this transport, key links have been provided between the site and Mt

Provide adequate visitor parking

Visitor parking will be accommodated by the provision of on street and the surrounding community a greater sense of place. car parking.

network of streets needs to be established to ensure that legibility and wayfinding is maintained. This is achieved by using a ring road and a permeable inner street network.

Show the layered history of the site The original eruption that formed Three Kings, which were actually 5 scoria cones, took place approximately 28,500 years ago. Following the eruption, Three Kings became the site of a Maori settlement, where traditional Pa sites shaped the scoria face to create defensible terraces. The surrounding area that makes up the Three Kings site is comprised of a unique variety of layers that embody Auckland's

Views to Te Tatua a Riukiuta are reinforced through site sensitive planning, architecture and landscape as a reminder of the prehistoric volcanic landforms that once existed in the area before the guarry. The history of Maori occupation is told by references to the Pa built form and earthworks. The industrial heritage of the site will be recalled through the use of installations and follies. In addition, a series of stairs and platforms will be designed to have a gritty, industrial character, which will link the site to Mt Eden road and Te Tatua a Riukiuta.

Provide visual and physical links to Te Tatua a Riukiuta and surrounding volcanic peaks The Master plan recognises the cultural significance of Te Tatua a Riukiuta as a spiritual and physical landmark. The Master plan opens up multiple vistas from Mt Eden Road, Grahame Breed Drive and the Three Kings town centre to the Maunga - giving the development,

On a regional scale, the Master plan makes reference to Maungakiekie (One Tree Hill) to the east and Maungawhau (Mt Eden) to the north.

Visual lookout points are proposed in key public open spaces within the development towards these regional topographical landmarks. Paths, platforms and lifts will connect the development with these surrounding volcanic landforms.

Physical links will be provided in the form of bush trails and pedestrian connections between Te Tatua a Riukiuta, prominent areas of open space surrounding the site and Te Tatua a Riukiuta.

Retain and enhance cultural overlays based on the principles of Te Aranga

The site offers a wealth of opportunity to interpret the gradual development of the site from prehistoric volcanic formation, to its industrial history as a stone quarry and a future town centre. Identification, interpretation and protection of heritage values are key requirements of the Master plan. Both the cultural history of Three Kings along with its industrial history of occupying and using the Maunga will inform the Master plan.

Character and Visual Amenity

Utilise views to Te Tatua a Riukiuta as a backdrop to the development and the wider community

The principle of Tohu* is applied and respected through the view opportunities towards Te Tatua a Riukiuta. The proposal aims to maintain and encourage views to Te Tatua a Riukiuta with a series of strategies. Buildings and blocks are orientated to protect and frame view corridors and building bulk and heights are carefully controlled so that views to Te Tatua a Riukiuta are maximised where possible. The separation of the built forms provides permeability and glimpses towards Te Tatua a Riukiuta throughout the development. The special places in the development, in particular the Green and the Town Plaza are sited to have a strong visual connection to Te Tatua a Riukiuta.

Key roads and access points will be aligned to protect and enhance view corridors.

Ensure visual links to the Maunga are protected and enhanced

View lines to the Maunga will be created by careful orientation of built form and blocks. Visual permeability through the site and to the Maunga will be achieved through consideration of building height.

Building and Architecture

Create high quality homes for the 21st Century

The proposed dwellings will be contemporary in nature, yet reference the historical Maori vernacular types. The design of each home and apartments will be carefully considered to maximise amenities and a sense of space. They will be sustainable homes, minimising water and energy usage through passive design strategies. All the dwellings will be designed with solar access, cross ventilation and views and outlook in mind to maximise comfort.

Introduce typologies that respect and relate to the landform

The proposal will utilise a range of built forms to negotiate the varying topography found on the site. In particular, terraces and cascading typologies will be used to negotiate the difficult sloping terrains in combination with more standard building types elsewhere, creating an interesting and varied architectural language across the site.

Provide housing choice through the introduction of suitable dwelling typologies, sizes and finish

A range of housing products will be made available to suit different market demands. Dwellings will range from apartments to terrace housing.

A range of architectural and landscape forms will be designed to transition between the drop in level to the guarry floor. Terraced landscape elements, earth forms, rain gardens and wetland treatment ponds can be employed to introduce usable green open space that doubles as access routes and water treatment zones.

Building typologies such as terraces and cascading apartments will be selected for their ability to traverse steep site conditions, and will be used along the periphery of the quarry. These tiered apartment buildings can be orientated accordingly to maximise daylight as well as views towards Te Tatua a Riukiuta.

Design architecture that work seamlessly with the proposed

The architecture within the development will be designed to be sensitive to the context by taking into consideration the landscape

Tohu - a sign, mark, landmark or distinguishing feature







THREE KINGS MASTER PLAN FRAMEWORK REPORT

2.0 INTRODUCTION

INTRODUCTION

The Three Kings Master plan study area is comprised of former quarry land owned by Fletcher Concrete and Infrastructure Ltd, former quarry land and reserve area vested in trust in Auckland Council with underlying title in the Crown, the existing Three Kings town centre, Big King Reserve, Three Kings Park and other surrounding land parcels.

This Master plan seeks to redevelop the former quarry land owned by Fletcher Concrete and Infrastructure Ltd. Former quarry lands owned by the Crown is included in the Master plan and may be co-developed through a land exchange arrangement. The land exchange is yet to be formalised and is not within the scope of this report.

A multidisciplinary team comprising dKO Architecture, Surfacedesign, Inc, Tattico, Pattle Delamore Partners, Harrison Grierson, Tonkin & Taylor, Traffic Design Group and other expert consultants were engaged by Fletcher to prepare this report. The Master plan has been developed in consultation with Auckland Council, the community and other stakeholders over a period of 18 months.



CONTEXT

Three Kings is the suburb named after the volcanic centre with three prominent peaks - Te Tatua a Riukiuta that erupted 28,500 years ago. The subject site is a former guarry operated by Winstone Aggregates and other parcels of adjoining land.

The suburb, approximately 8km south of Auckland, is located amongst other significant volcanic peaks such as Maungawhau (Mt Eden) to the north, Maungakiekie (One Tree Hill) to the east, Owaikara (Mt Albert) to the west and Puketepapa (Mt Roskill) to the south west.

Te Tatua a Riukiuta, the last of the five peaks at Three Kings, is part of a reserve located at the north west boundary of the former quarry. The reserve is well used but currently has poor pedestrian and vehicular linkages from the south and the east due to the quarry land surrounding these edges. The reserve is accessible from a public car park on Duke Street, and through various pedestrian routes from Connolly Avenue, Dally Terrace, Smallfield Avenue and Fyvie Avenue from the west, and Hunters Park Drive from the east. An existing path links pedestrians from Grahame Breed Drive to the southern edge of Big King Reserve,

The subject site is bounded by Big King Reserve and commercial and industrial land to the north, existing dwellings to the west, Mt Eden Road to the east, and Grahame Breed Drive to the south. The existing Three Kings town centre and Three Kings Park are located south of Grahame Breed Drive.

The former quarry, located at the centre of the existing Three Kings neighbourhood and amongst existing open space assets, is in an optimum location to become an extension of the town centre whilst providing new linkages to surrounding parkland.

In developing the Master plan, a number of Auckland-wide and site specific planning instruments, guidelines and standards have been reviewed.

THE AUCKLAND PLAN

The Auckland Plan sets a balanced strategy for managing Auckland's growth. Between 60% and 70% of growth is targeted within the existing metropolitan urban area. The Auckland Plan seeks to achieve these significant urban intensification policies through a strategy which focuses growth close to town centres and along major public transport routes.

Three Kings is identified as an emergent town centre within the overall Auckland Urban Core Development Strategy Map. The subject site is ideally located adjacent to the existing town centre and on a major high frequency/high quality bus public transport route.

The former quarry is one of very few large brownfields sites on the Auckland Isthmus. It provides a unique opportunity to meet Auckland Council's urban intensification policies without the need to change the character of existing established residential areas.

The Auckland Plan seeks to promote a range of typologies within growth nodes and targets opportunities for apartment development as one of the typologies in growth areas.

The Master plan provides for a range of apartment and terrace house high density housing typologies. The unique nature of the guarry gives the opportunity to build multi-storey 'cascading' apartment buildings within the Three Kings area, but ensuring the buildings are only four levels above the rim of the quarry.

The Three Kings development will be able to accommodate urban intensification as promoted in the Auckland Plan, whilst maintaining high quality urban and open spaces for the neighbourhood.

PUKETAPAPA LOCAL BOARD PLAN

The guarry has been identified in the local board plan as a key site for development and presents significant opportunities for redeveloping the surrounding Three Kings area.

Quarry are:

- a Riukiuta.
- the quarry site.

2.1 CONTEXT

The visions of the Puketapapa local board plan for the Three King

to address the low level of open space in the neighbouring Albert-Eden Local Board area directly to the north of Three Kings.

to maximise the level of public open space and protect and enhance the volcanic landscape and views to and from Te Tatua

to improve connections to Te Tatua a Riukiuta, other existing open spaces, Three Kings town centre, surrounding housing and

to incorporate surrounding land uses into the redevelopment of the guarry to ensure the best possible outcome for the community.

Puketapapa Local Board Plan 2011







THESE PLANS OUTLINE THE VISION OF FLETCHER RESIDENTIAL LTD AND ARE NOT ENDORSED BY AUCKLAND COUNCIL





Concept Master plan Option Development

2.2 MASTER PLAN PROCESS

MASTER PLAN PROCESS

Fletcher first approached the Council in November 2012 with the suggestion that a comprehensive look at the Fletcher Concrete and Infrastructure Ltd and Council landholdings at Three Kings would give a better urban outcome for redevelopment of the Three Kings centre, than if Fletcher independently undertook redevelopment of the former Three Kings quarry.

The Puketepapa Local Board at the time was seeking a major precinct plan for the Three Kings area. Fletcher was asked to integrate its work with the local board programme. This was agreed on the basis that the outcomes of the precinct plan would be sufficiently advanced in time for inclusion in the Unitary Plan.

Fletcher has worked collaboratively with the Council.

In particular:

- All requested information has been provided to the Council team to enable them to advance the precinct plan.
- Fletcher has fully participated in all community workshops, open days and other engagement processes
- Fletcher has worked with all stakeholders to input into the precinct plan and to develop up its own Master plan. Including South Epsom Planning Group (SEPG) and Three Kings United Group (TKUG).
- Fletcher has had a number of workshops with the Council to identify and develop up the key elements of the Master plan that are critical to the local board and Auckland Council.

- Fletcher has met with all key departments and CCOs to work through various issues. This has included Parks, Planning, Urban Design, Stormwater, Auckland Transport, Watercare Services Ltd.
- Fletcher has held multiple hui with the five primary lwi who have interest at Te Tatua a Riuikiuta.
- Fletcher has worked through the Tamaki Collective, to ensure all 13 Iwi are appraised of the proposal and have had the opportunity to be part of the engagement process.
- Fletcher has engaged with other key landowners in the area, particularly Antipodean who owns the town centre, and Housing New Zealand who have significant landholdings to the west.
- Fletcher has met with the local board in different workshop and briefing environments.
- Fletcher has held a public open day on 1 February 2014 to enable the public to work through all elements of the final Fletcher proposal. This follows on from the extensive public process Fletcher has been involved in.

The Master plan has significantly changed during the engagement process, to take on board a variety of different perspectives.

dKO Architecture was engaged as the urban designer and architect of this project since early 2013.

Through the processes outlined above, dKO and its consultant team have carried out extensive studies of the history of the site, the geology and typology, the regional context and volcanic landscape, Council policies, local and international design trends - in particular exemplar developments in Australia and New Zealand.

The Master plan forming this proposal achieves the balance of delivering the vision for Three Kings, embracing significant elements of the public and stakeholder feedback through the engagement process, and reflecting the local board precinct plan; while still being a commercially viable project for Fletcher.

ALTERNATIVE ELEVATED PROPOSAL STUDIES

An alternative masterplan with elevated fill strategies was also explored. This alternative assumed that the existing quarry and surrounding former guarry land are filled up to match surrounding Mt Eden Road and Grahame Breed Drive levels.

A comparison of the alternative masterplan and the proposed masterplan (H1) is shown in Appendix II: Alternative Elevated Proposal Studies.



THREE KINGS PRECINCT PLAN DISCUSSION DOCUMENT - OPTION 3 Excerpt: Three Kings Precinct Plan (May 2013)



THREE KINGS PRECINCT PLAN DISCUSSION DOCUMENT - OPTION 4 Excerpt: Three Kings Precinct Plan (May 2013)



THREE KINGS PRECINCT PLAN DISCUSSION DOCUMENT - OPTION 5 Excerpt: Three Kings Precinct Plan (May 2013)

2.3 PREVIOUS PLANS AND STUDIES

DRAFT THREE KINGS PRECINCT PLAN

The proposed Three Kings Precinct is located within and adjacent to the Three Kings Town Centre, near the intersection of Mt Eden Road and Mt Albert Road. It incorporates the land owned by Fletcher Concrete and Infrastructure Ltd (15.2ha) and the Crown (6.4ha) which has all previously been quarried, the Three Kings Town Centre on the northern side of Mt Albert Road, the open space that adjoin these two areas and significant residential and commercial land _ holdings surrounding the quarry.

The purpose of the Precinct plan, prepared by the Puketāpapa Local Board with input from the community, is to enable the integrated redevelopment of key sites within the Three Kings area in a way that will ensure high quality outcomes that support a compact city. It will promote legacy developments that support the viability of this emerging centre and integrate the Town Centre, residential, open space and community facilities.

The key messages in relation to the redevelopment of the Quarry include:

- Recognition of its role as a key site for development, which presents significant opportunities for redeveloping the surrounding Three Kings area.
- Increase open space in the area to address the low level of open space in the neighbouring Albert-Eden Local Board area directly to the north of Three Kings.
- Be guided by a design-led process to identify desired future end-use options for the quarry site and the surrounding area.
- Maximise the level of public open space and protect and enhance the volcanic landscape and views to and from Te Tatua a Riukiuta.

Improve connections to and between Te Tatua a Riukiuta, other existing open spaces, Three Kings town centre, surrounding housing and the quarry site.

Seek to incorporate surrounding land uses into the redevelopment of the quarry to ensure the best possible outcome for the community.

Be preceded by filling and contouring practices that do not constrain the final end-use of the guarry site and the surrounding area.









The Master plan vision celebrates the locality, history, cultural heritage and natural environment of Three Kings.

A vibrant, sustainable urban village.

A community created within a highly permeable and widely connected open space network.

A revitalisation of the former quarry site.

A Master plan that celebrates the locality, history, cultural heritage and natural environment of Three Kings.

A community which offers a unique lifestyle choice with residential living areas on the doorstep of a revitalised town centre.

The Three Kings Renewal Project will be a world class community that Aucklanders are proud of, want to live in and invest in as the revitalisation of the quarry site will restore the area's natural and physical infrastructure. Three Kings is well positioned to become a thriving town centre.

Our concept is of a vibrant community that is an exemplar for sustainable approaches to urban living; a community created within a highly permeable and widely connected open space network.

The Master plan vision celebrates the locality, history, cultural heritage and natural environment of Three Kings.

The community will offer residents a unique lifestyle choice, residential living areas on the doorstep of an existing town centre, connected to high quality recreational facilities.

The quality and quantum of public open space is both increased and enhanced.

Two co located soccer fields - "The Green", will be positioned on the quarry floor, "The Green" will be configured for cricket oval use during the summer season. "The Green" will be strongly visually and physically connected to Three Kings Oval. A public ramp together with stairs and an elevator transcend the 15-17 metre height differential connecting these two spaces. At the Grahame Breed Drive level, there are ample opportunities to view Te Tatua a Riukiuta.

Public parking for the use of the ovals will be provided along Grahame Breed Drive adjacent to the Three Kings Oval and adjacent to "The Green" on the lower development.

Grahame Breed Drive will be slightly reconfigured to clearly identify the new civic precinct and the Three Kings town centre.

the volcanic view shaft looking towards One Tree Hill. This axis also contains other open space facilities that provide linkages through the site and also to adjacent communities.

In the north western corner of the site a linear green zone has been provided as suggested in the Three Kings Precinct Plan discussion document to provide a buffer to the Te Tatua a Riukiuta. Fundamental to the development is Te Tatua a Riukiuta being a protected view and landmark. All other viewing opportunities as suggested in the Three Kings Precinct Plan have been adopted and enhanced.

A comprehensive network of cycling and pedestrian trails cross the site, link into and strengthen adjoining networks. As previously noted the visual and physical linkages to Te Tatua a Riukiuta are of paramount significance. The current staircase on the south side of the Maunga will be upgraded with a ramping and stairway system intergral with the landscape and will provide a "Greenways" connection through to "The Green", Three Kings Oval and the Three Kings town centre. An additional connection through to Te Tatua a Riukiuta on the northern edge of the former quarry is planned. This stairway connection is envisioned as a post-industrial relic that would incorporate contemporary architecture. This connection would further open up the Maunga to the communities east of Mt Eden Road.

A much enhanced pedestrian and cycle trail will run east west from Smallfield Ave through the former western soccer field and "The Green" providing connections to Mt Eden Road and beyond. Adjacent Kingsway an open plaza provides additional viewing opportunities of the Maunga. This plaza is to incorporate some of the industrial remnants left on the site and also to have a public elevator that connects the quarry floor to the relocated bus stop adjacent to the plaza. Public transport is embraced by the development and the pathway systems will connect with multiple bus stops.

and four level terraces providing surveillance and safety to the public realm. The building form is designed in a manner to address the civic nature of the street. Almost all car parking is rear loaded through lane ways maximising the civic nature of streets. Rainwater gardens, swells and other water sensitive urban design features will add to the high quality streetscapes.

The Three Kings Renewal Project is seen to be a world-class exemplar development with a high regard for the public realm. All aspects of the proposal respect the cultural, historical values that make this site special. The recognition and enhancement of Te Tatua a Riukiuta through the design, land-use and additional open space and connections provide this site with a strong sense of place.

"The Green" is positioned on an open space axis that is aligned with

The public space on the guarry floor is flanked by a mixture of three

3.1 THE VISION





View SW along Mt Eden Road towards the Town Centre





Auckland Volcanic Field

View of Quarry Site looking North

The initial phase of site analysis involved rigorous investigation and research into the guarry and the historical volcanic landform. The analysis also examined the surrounding urban conditions of the site and the impact a redevelopment of the quarry would have on the community.

Seven key themes have been used to provide a framework for assessing the qualities of the site and its opportunities and constraints. These themes are:

- 1. Environment
- 2. Water
- 3. Recreation and Community Facilities
- 4. Transport, Access and Circulation
- 5. Culture and Heritage
- 6. Character and Visual Amenity
- 7. Building and Architecture

ENVIRONMENT

Three Kings Quarry is a complex environment and many factors must be addressed during the Master planning process.

Currently the site is mainly comprised of a large earthen guarry. At 40 metres deep at its maximum from the average surrounding grade, the relatively deep quarry is wrapped with a variety of ground conditions. Exposed scoria, basalt, native bush, and general rough ground cover make up the earth walls, which range from navigable inclines to steep cliffs.

Due to the guarrying over the past century, the scoria cones that previously existed have been removed to expose a bare substrate. The excavation and removal of scoria from the quarry site has left a steep cut in the face of the Maunga to the east of the summit.

Just below this face is the quarry access road that has been used by trucks coming from Mt Eden Road along the north of the site to turn along the sites north western face to enter the interior of the quarry. The edges of the guarry are vegetated to provide screening of the quarry activity. In addition, the creation of the large depression has effectively cut off direct access to many of the open spaces around the site, including Te Tatua a Riukiuta.

Surrounding the site are a number of open spaces including Three Kings Park, Big King Reserve, as well as a soccer field to the west and other parks just a few blocks away.

Through an analysis of the site it became apparent that while the precinct is rich with open spaces, there is a lack of obvious connection to these parks and reserves. This is attributed not only to the excavation of the quarry but also by the challenging topography of the Maunga. For years access to the top of Te Tatua a Riukiuta from Mt Eden Road has been indirect and difficult for pedestrians to navigate.

Opportunities and Constraints

The site of Three Kings Quarry, while complex, provides a range of opportunities that are directly linked to the existing topographic and historic site conditions.

There is a great benefit in utilising the existing landforms to help negotiate the grade difference from the level of Mt Eden Road to the proposed level of between RL 60-64m on the interior of the development. A series of designed architectural and landscape

features will help in transitioning the average 15-17m drop in a number of ways. Terraced gardens can be employed to introduce usable green open space that can double as access routes and water treatment zones.

Apartment typologies selected for their ability to traverse steep site conditions will be used along the lower part of the site. These tiered apartment buildings can be orientated accordingly to maximise sunlight as well as views towards Te Tatua a Riukiuta. Apartments of this typology can be easily perforated to maintain proper site lines from the exterior of the site as well. These apartment buildings have been located such that the shadow cast does not adversely affect any adjacent development throughout the year. This is elaborated on page 62-65.

The circular nature of the site also provides the opportunity of roads that gradually slope down as they approach the lower part of the quarry. Pedestrians, bicycles, and vehicles would be able to see the site and the surrounding views to Te Tatua a Riukiuta, One Tree Hill, and Mt Eden as they navigate the entry road network.

One of the greatest opportunities presented through this Master plan is the creation of connective open space experience for pedestrians. This will contribute to the Greenways network proposed under the Puketepapa Greenways Project.

As previously discussed, Three Kings Quarry is sited in the middle of a fragmented network of parks and reserves. The development could act as a primary linkage to a number of sites by providing accessible routes through and around the project. A new network of pathways, stairs, a lift, boardwalks, trails, and elevated structures can grant new access from Mt Eden Road and Grahame Breed Drive through the Three Kings site up to Te Tatua a Riukiuta, something that is virtually impossible at the current time.

4.0 ANALYSIS

WATER

The Three King Quarry sits within a volcanic centre characterised by high permeability scoria. This presents a unique opportunity to manage stormwater flows for the site and surrounding area. The large opening in the ground funnels water from surrounding sites to the centre of the quarry. Excess water is currently dealt with by way of a controlled groundwater bore that holds the water table generally at RL 34m. Generally, the site can drain relatively well due to the high permeability of the scoria substrate.

Opportunities and Constraints

While providing green open spaces for people is a key driver of the Master plan, it is also essential that these spaces are performing at a high level with regards to irrigation and large stormwater event management. There is opportunity to integrate storm water managment and drainage into the open space areas contained in the Master plan.

To aid in the matter, the Master plan seeks to employ a wetland ring that runs along the inner face of the old quarry walls. This circular wetland will hold stormwater runoff and act as preliminary filtration before feeding back to the permeable scoria layer and later to the aquifer. By efficiently and responsibly dealing with water on site the development has an opportunity to recharge the aquifer with clean water.

Another benefit of using an extensive network of wetlands is that they provide a diverse and interactive amenity for those visiting the site whilst significantly improving the biodiversity. Pedestrians would be able to walk along and through the wetlands along a series of board walks that would bridge above reeds and open ponds. Access to the aquifer also allows for consideration of active water use through playground facilities, controlled irrigation, heat sink opportunities for the larger buildings and general landscape amenity.

RECREATION AND COMMUNITY FACILITIES

Three Kings is currently serviced by a series of disjointed open spaces like Big King Reserve, Three Kings Park, Robinson Reserve, Arthur Richards Memorial Park and Fearon Park. Most of these parks are well used by the community around them. However, they exist in a disjointed network where it is very difficult for residents and visitors to experience them as part of a connected whole.

The location and current state of the quarry amongst these parks means that residents from the eastern side of Mt Eden Road do not have legible and accessible paths that lead them to Big King Reserve and other parks to the west of the quarry, and vice versa.

Big King Reserve is currently highly frequented by strollers and dog walkers taking advantage of existing internal footpath network. The reserve is accessible from a carpark on Duke Street, and other minor pedestrian routes. The access from Grahame Breed Drive is via a flight of stairs and footpath through unsurveyed former quarry land. Initial observations have identified this access point as a critical safety and amenity issue.

Three Kings Park is very well used for active recreation by the community and local sports clubs. It is located adjacent to the Fickling Centre, Three Kings Library and council tennis courts as part of a community activity precinct. The Fickling Centre also accommodates community group functions such as local board meetings, citizenship ceremonies and conferences.

Opportunities and Constraints

Past consultations with the community and Auckland Council have highlighted the opportunity of using the quarry as a connector that would stitch together all existing open spaces around the quarry.

The immediate opportunity of redeveloping the quarry would be to connect Three Kings School and Three Kings Park to the south of Grahame Breed Drive to Big King Reserve across the quarry.

A new green linkage could be provided within the Fletcher Residential Ltd Three Kings development to allow visitors to conveniently travel between these existing open spaces, whilst enjoying new parklands and community facilities within the development.

The existing topography of the quarry is a challenge to achieving such connection. The difference in levels between Three Kings Park and the existing quarry floor means that an innovative system of stairs, ramps and public lifts will be required to provide universal access. A number of existing trails on Big King Reserve may be connected into.

Within the site, a new soccer field could be proposed to work in concert with the existing soccer field in the former quarry to the west of the current Winstone quarry site. Both soccer fields could be relocated centrally within the Master plan, and be part of the green space network proposed. Together with Three Kings Park and Big King Reserve, these spaces would afford a series of active and informal recreation activities for residents and the community.

In terms of community facilities on site, toilet and change facilities, cultural interpretation centres and parkland structures could be proposed to accommodate various active and passive recreation activities. A town square adjacent to the Three Kings town centre along Grahame Breed Drive could function as a civic space, hosting communal events, markets and other spillover activities from the Fickling Centre and Three Kings Library.



TRANSPORT, ACCESS AND CIRCULATION

There are currently limited connections between the quarry site and the surrounding area. The principal entry to the site is from Mt Eden Road. This connects to an access road which currently transitions the approximate 40m level change to the bottom of the quarry. In order for the site to provide linkages in both and east/west and north/south axis this vertical transition will need to be addressed in a convenient and clear way.

Currently the visibility into the site is extremely limited due to earth embankments and plantings along Mt Eden Road and Grahame Breed Drive; this will need to be addressed to ensure legibility into the site is achieved for the future.

The Three Kings quarry site is serviced by public bus routes on both Mt Eden Road to the east and Mt Albert Road to the south. Bus stops are located at various points along the periphery.

Opportunities and Constraints

Analysis identified key locations to enter the site, including a requirement for a hierarchy of entry points, streets, laneways and pedestrian trails. There is opportunity to utilise connections from Grahame Breed Drive to provide an additional clear entry to the site from the south.

The current lack of visual permeability into the site will need to be addressed and requires a clear wayfinding strategy to assist in navigating into and through the site.

The quarry is a key unifying site for the surrounding area. Due to the existing network of active and passive recreational spaces adjacent to the site, there is a clear opportunity to encourage walkability and bicycle use within, through and around the development. This network may link into the Greenway network proposed in the Puketapapa

Greenways plan, contributing to the improvement of connections to existing open spaces and streets within the area.

CULTURE AND HERITAGE

The initial cultural inspirations for the Master plan design stem from a recognition of the unique history of the Three Kings site. The ways in which the Master plan engages with site edges and transitions between earth features are formed by a cultural and historic understanding of the ways in which the landscape is designed. The process of shaping the Maunga from Maori occupation to quarrying greatly influence how the landscape within the Three Kings Master plan is realised.

Auckland sits atop a volcanic field made up of over 50 cones. The Three Kings (originally five scoria cinder cones) were part of this larger network of Auckland volcanoes, which still to this day inform the way we see and remember the landscape of Auckland. As the Maori came to Auckland, they saw the importance of these large landscape features and would occupy the sides of volcanoes as a series of Pa sites. Pa being defensible settlements that were built by cutting into the outer sloping faces of volcanoes or hills in order to create navigable pathways and barriers from intruders. The resulting formal language can still be seen today as a stepping pattern that traverses many of the volcanoes in and around Auckland.

Volcanoes in Auckland have also represented growth and progress with regards to building. Quarrying of volcanoes for their raw scoria and basalt provided Auckland with key raw materials that would continue to help build the city. In order to extract the scoria from Three Kings, concentric digging methods would subtract material from the interior of the mounded volcanic form.

Both the cultural history of Three Kings along with its industrial history of occupying and using the Maunga has informed the Master plan. Reshaping of the edges of the Maunga reflect the gestures of

connection to the public open spaces. Soft, folded forms that pull the circular shapes of the Maunga into the site will help construct the language of pathways, roads, access routes, and sculptural play space throughout Three Kings. Recognising the importance of industrial artefacts, follies and even exposed quarry rock will puncuate the landscape in a way that connects the users with the rich history of the quarry. Overall, both private residents and the public will be able to read these unique forms as being inspired from a rich historical narrative as they enter and inhabit the Three Kings site.

Opportunities and Constraints

The site offers a wealth of opportunities to interpret the gradual development of the site from prehistoric volcanic formation, to its industrial history as a stone quarry and a future town centre. Identification, interpretation and protection of heritage values are key requirements of the Master plan.

The design team recognises that the Nga Mana Whenua o Tamaki Makaurau Collective Redress Bill will, when enacted, vest the ownership of 14 Maunga (volcanic cones), including Te Tatua a Riukiuta, in the trustee as defined in the Bill, and thereafter declare it a reserve and classify it as a recreation reserve. Under the Bill, Te Tatua a Riukiuta will be governed by a Maunga Authority made up of representatives of the relevant rōpū entities, Auckland Council, and a Crown representative. The development in and around the Maunga will need to be the subject of liaison with the iwi throughout the design and implementation process.

CHARACTER AND VISUAL AMENITY

The Three Kings Shopping Centre is currently defined as part of an "emergent town centre" in Auckland. As a town centre it will act as a local hub for communities, providing a wide range of retail and business services and facilities, and community facilities. It is expected to provide a range of living options, including mixed-use and higher-density residential options.

The development will have an urban village character in response to the mix of town centre uses, with high quality streetscapes and public open spaces augmented by appropriately scaled built form that response to site and context. A range of building typologies, with a common design lanuage will be utilised. A series of integrated but distinct neighbourhoods will respond to the varied typography on the site and the surrounding landuse.

Views to Te Tatua a Riukiuta will be used as a backdrop to the development. Views and vistas to the Maunga will be protected and enhanced to ensure strong visual links to these important historical and cultural elements.

Opportunities and Constraints

Being the site of an old quarry, there is a significant level change between the site and the surrounding land. There are steep falls on the edges of the quarry and the level change from the existing roads to the quarry floor is approximately 40m below the surrounding area. An opportunity exists to overcome the difficult terrain with a combination of earthworks and innovative building typologies that are dynamic and interesting. The result will be of a harmonious melding of architecture, landscape and topography.

The surrounding neighbourhoods do not yet have a distinctive character, this represents an opportunity to develop an identity for the area through a considered urban and architectural response. The site

has significant views toward Te Tatua a Riukiuta and Maunga, there is an opportunity to create and frame these views not only for the development itself, but for the wider community. The redevelopment will aim to provide visual permeability through the site and preserve important view corridors.

BUILDING AND ARCHITECTURE

The Master plan is consistent with Residential 8 zoning objectives which aim to allow higher densities for developments within 'growth areas' in Auckland. This zoning responds to the need for smaller dwellings and a greater diversity of housing as a means to manage growth within Auckland City.

Analysis of the operative District Plan reveals an allowance of 4-6 storeys in height for development in some areas of Three Kings. In the area around the Town Centre and along transport corridors such as Mt Eden Road where the draft Unitary Plan proposes higher density residential developments. This will typically be low rise apartments and terrace houses of up to 16.5m or 4 storeys, except where close to the Town Centre where in some places development of up to 21.5m or 6 storeys may be allowed. The built form on the quarry site will respond to these controls, as well as taking into account local character, environment, community and housing needs. These apartment buildings have been located such that the shadow cast does not adversely affect any adjacent dwellings throughout the year.

Opportunities and Constraints

Opportunities exist to create a a residential community comprising of well designed, high quality buildings that provide high quality homes for the 21st Century. Typologies will be introduced that respect the planning controls that exist on the site and relate to the landform. Being located in an emerging town centre provides an opportunity to introduce a range of suitable dwellings that address market demands as well a provide housing choice to future residents of the area.







Diagram of Three Kings Site Constraints

ACCESS



- (1) Limited opportunities to for vehicle access to the Quarry Site
- (2) Quarry Site limits East-West access
- (3) Pedestrian permeability limited by Quarry Site in East-West direction
- (4)Poor surveillance and accessibility on current link to Te Tatua a Riukiuta

OWNERSHIP

- (5a) Existing soccer field with poor passive surveillance issues and difficult access
- (5b) Existing Crown owned former quarry land has poor amenity, access and surveillance issues

STORMWATER / FLOODING

(6) Quarry Site currently serves as a catchment point for the surrounding area

BUILT FORM / LAND USES

- (7)
- Industrial warehouses to the north create visual issues with Quarry Site

RECREATION / OPEN SPACE

- (8)The Quarry Site disconnects local areas of recreation and open space in the Three Kings area
- 9 Good connection to Big King Reserve from Duke Street

TOPOGRAPHY AND LANDFORM

(10) The quarry site level at present sits up to approximately 40m below adjacent areas. This level change creates a significant barrier around the site

CULTURE AND HERITAGE

(11) Visual link issues to the Big King Reserve from significant sites

4.1 SITE CONSTRAINTS











Soccer field and survellance issues



Diagram of Three Kings Site Opportunities

ACCESS



- Utilise existing access to site and enhance with landscape elements
- (2)Continuation of connections into the site
- (3) Improve pedestrian safety at key connection points
- (4)Create strong axial linkages between the North/South and East/West of site

OWNERSHIP



Unify and enhance surrounding sites

STORMWATER / FLOODING

- (6) Integrate stormwater collection and distribution with site elements
- (7)Utilise a wetland holding system to manage and clean stormwater runoff

BUILT FORM / LAND USES

(8) Utilise Quarry walls to provide innovative cascading housing typologies

RECREATION / OPEN SPACE

- (9) Provision of new active recreation spaces to support the surrounding area
- (10) Provide stronger linkages between existing open space and community areas around the quarry

TOPOGRAPHY AND LANDFORM

(11) Introduce lookout locations along the periphery and provide innovative ways to transition the 15-17m level change

CULTURE AND HERITAGE



Enhance existing view corridors towards Big King Reserve

4.2 SITE OPPORTUNITIES





Landscape elements






5.0 PRINCIPLES AND STRATEGIES





5.2 Water



5.4 Transport, Access and Circulation



Architecture



The Master plan has been developed using a framework of seven key themes:

- Environment 1.
- 2. Water
- **Recreation and Community Facilities** 3.
- 4. Transport, Access and Circulation
- 5. Culture and Heritage
- Character and Visual Amenity 6.
- 7. **Building and Architecture**

These themes provide the structure to address the many challenging planning components. To provide a clear direction, planning principles and strategies for each theme have been developed. These guide the development of the Master plan.

These principles and strategies have been tested with the community as part of the consultation process and have guided the outcomes of the Master plan.



5.5 Culture and Heritage





5.3 Recreation and Community Facilites



5.6 Character and Visual Amenity













<image>







INTRODUCTION

The provision of high quality green spaces is a key principle in converting the site from a former quarry into a desirable neighbourhood. The Master plan aims at providing a mixture of man-made versus natural landscapes.

PRINCIPLES

- Renewal and remediation of the topography in a sustainable • and effective way
- Create a connected network of pathways
- · Bring native landscape into the site
- Connect users with cultural occupation of the Maunga
- · Provide comprehensive stormwater system for the entire site
- Integrated streetscape experience
- Provide high-quality open spaces
- Create an open public amenity
- Connect Three Kings to the surrounding public open spaces

STRATEGIES

- Create a connected network of pathways and access routes that lead to Te Tatua a Riukiuta from Mt Eden Road.
- Use the existing quarry access route as a Bush Road that shapes the northern end of the site.
- Employ performative wetland ring within interior of the site to • hold stormwater runoff in open wetland ponds and directing larger events into the aquifer.
- Use found language of earth-forming from around the site to navigate sloping open spaces
- Provide spaces that can be programmed for football, cricket and other sports as well as more open and free play
- Connect Three Kings Park with a Town Square feature that cascades into the interior of the site
- Design streetscapes that integrate walking paths, low planting, • tree planting, on-street car parks, and lead ups to apartments.
- Create a series of typologies that will be used in order to traverse the varying grades around the site, ranging from accessible paths, lifts, stairways, and elevated ramps.

5.1 ENVIRONMENT







Wetland holding area Integration

2. Soccer fields act as underground storage

INTRODUCTION

Dealing with water in a responsible fashion is integral in the realisation of the Three Kings Renewal Master plan. The site of the old quarry is linked to a much larger water network, namely the fresh water aquifer sitting directly underneath the proposed site. The systems that will be implemented will be chosen for their strengths in directing rain water, stormwater catchment and holding, filtration and overall public amenity.

PRINCIPLES

- Fill existing quarry to above the natural ground water level
- Provide on-site water treatment and catchment systems
- Ensure that water traveling back into the fresh water aquifer is done in a controlled and clean way
- Provide water features as public amenity
- Utilise water resource for irrigation to provide for a robust and sustainable vegetative network.

STRATEGIES

- Build integrated rain garden systems into streetscapes.
- Create a concentric wetland ring that wraps the interior of the site and holds the majority of overflow stormwater runoff prior to filtration through scoria layer and into the aquifer.
- Design wetland ring in a way that provides open to air ponds that connect the user back to the water system
- Establish networked and controlled irrigation to key vegetated areas.
- Provide for use of water for amenity and plants.





Wetland Diagram





Preliminary Eastern Wetland, Cell 4 Long Section





Preliminary Road 3, Wetland Cell 1 Section Alternative B

Preliminary Wetland Cell 1 - Outlets





Illustrative section of wetland road





LEGEND

- Three Kings Park
 Town Square
 Soccer Fields / Cricket Oval
- 4. Wetland Park

Sloped Terraced Gardens
 Western connection to Maunga
 Big King Reserve

5.3 RECREATION AND COMMUNITY FACILITIES

INTRODUCTION

The Master plan should contain a mixture of recreational spaces and community facilities to serve the needs of residents and the community. Opportunities have been explored for active, passive, formal and informal recreation. A mixture of active playfields, walking and cycling trails will be provided. The opportunity also exists for other community facilities to be provided.

PRINCIPLES

- Ensure all spaces are flexible to suit a broad range of user groups locally and Auckland-wide
- Identify areas for active and passive recreation
- Integrate community and cultural activity
- Balance recreation with ecological integrity
- Ensure active recreation areas are designed to operate at efficient levels of use

STRATEGIES

- Allocate spaces for passive recreation
- Allocate spaces for active recreation
- Provide toilet and change facilities near active playfields
- · Create a connected network of pathways and access routes that link proposed recreational spaces with the existing open space network
- · Designate town square area for community gatherings and events
- · Create the opportunity for education, cultural and community support opportunities through information billboards and reference points.







Proposed secondary access road

Proposed primary access road

Existing primary access road

5.4 TRANSPORT, ACCESS AND CIRCULATION

INTRODUCTION

Convenience in getting to, and through the site is key to ensuring that the former quarry becomes usable and developable land. The former guarry site, having been disconnected from the surrounding neighbourhood in the past, will need clear and legible wayfinding strategies to enable residents and the community to use the facilities proposed and to access the greater network of recreational spaces.

The hierarchy of streets, laneways and pedestrian trails provided will create an accessible and permeable urban infill development.

PRINCIPLES

- Encourage use of existing and proposed public transport networks
- Provide universal access to and through the site
- Provide adequate opportunity for visitor parking
- Establish clear entries to the development
- Establish a hierarchy of streets, laneways and pedestrian trails

STRATEGIES

- Create clear entries to the site from Mt Eden Road and Grahame Breed Drive
- Provide accessible pedestrian and bicycle connections to public transport nodes on Mt Eden Road and Mt Albert Road
- Encourage walkability and bicycle use through the provision of pedestrian and bicycle trails throughout the site and beyond to the Puketepapa Green Trails. These trails should also connect to existing open space networks to enable a larger community uptake and use of proposed facilities within the development
- Provide a mixture of stairs, ramps and a public lift to enable residents and the community to navigate the difference in levels on site
- On-street visitor parking is proposed on all main streets to accommodate visitor demand and overflow during large sports and community events
- Signalised crossing is proposed at the intersection of Mt Eden Road and Grahame Breed Drive to provide a safe pedestrian connection into the development for the school and Three Kings town centre from the eastern side of Mt Eden Road
- Retain and enhance existing pedestrian trails to Big King Reserve along the western boundary of the development
- All of the multi-storey cascading apartments, approx. 750-850 units, will have lift access to the town centre, community facilities and public transport.





Bush Road access





Existing pedestrian / bicycle connection

Proposed pedestrian / bicycle connection

Staircase connection

Public lift connection

Proposed bus stop



Precedents of industrial artefacts and forms of public vertical circulation













5.5 CULTURE AND HERITAGE



INTRODUCTION

The site of the old quarry at Three Kings is a historically and culturally important site not only to Auckland, but the larger surrounding region. The area was once home to five large volcanic cones, all of which were over 100m high and formed a prominent part of the landscape. In the 19th and 20th century, the area was extensively quarried for scoria and basalt rock and today, only Te Tatua a Riukiuta, at 133m remains as an important park serving the local community. The historical context of the site, its change of use through time, and the importance of Te Tatua a Riukiuta as a prominent historical and landscape feature has greatly informed our design. The proposal aims to tell the story of the historical layers that exist at Three Kings. •

PRINCIPLES

- Provide reference to the history of the quarry site and the original volcanic forms, through design within the development. Both architectural and landscape elements.
- · Show the layered history of use and development through interpretation.
- Retain and enhance all heritage items and heritage landscapes.
- Create a visual and physical connection between the site and Te Tatua a Riukiuta.

STRATEGIES

Provide visual and physical links to Te Tatua a Riukiuta and surrounding volcanic peaks

 Reinforce the historical and geological links between the site, Te Tatua a Riukiuta and the surrounding volcanic peaks and public domains by connecting them through a series of pedestrian paths, stairs, lifts and platforms.

Show the layered history of the site through interpretation

- throughout Three Kings.

Retain and enhance all heritage items and heritage landscapes

- quarry.
- Kings site.

Tohu - a sign, mark, landmark or distinguishing feature

• The principle of Tohu* is applied and respected through the view opportunities towards Te Tatua a Riukiuta throughout the development. The public domains, such as the Green and the Town Square, maintains generous view corridor towards the Maunga through the use of built form as framing elements.

Lightweight industrial structures evocative of machinery used during past quarry operations will ramp up to a series of platforms before tying into the Maunga Access path that will originate on the south western edge of the site.

Reshaping of the edges of the quarry recalls historical Maori earthworks. Soft, folded landscape forms that pull the circular shapes of the Maunga into the site will construct the language of pathways, roads, access routes, and sculptural play space

Acknowledge local heritage by referencing traditional built form of the Pa and terracing that once existed in the area in dealing with the unique topography of the site.

Recognising the importance of industrial artefacts, follies and even exposed quarry rock will punctuate the landscape in a way that connects both locals and visitors with the rich history of the

Maintain and display these forms through the opportunity for public installations. If provided, both private residents and the public will be able to read these unique forms as being inspired from a rich historical narrative as they enter and inhabit the Three





5.6 CHARACTER AND VISUAL AMENITY

INTRODUCTION

The character of the site is defined by the response to the historical and physical context in making places to live, work, shop and socialise. The aim of the Master plan is to introduce an urban village character through built form, landscaping, incorporating surrounding land uses into the redevelopment, making special places and creating distinct but integrated neighbourhoods in the development.

The special places we aim to create, such as the Green and the Town Square respond to the need for a backdrop to public life and to the need to reinforce connections to the surrounding community and places. The distinct neighbourhood and built forms are a response to the unique topography on the site. Visual permeability will be provided through the site and views to Te Tatua a Riukiuta to be framed and protected.

PRINCIPLES

- Utilise views to Te Tatua a Riukiuta as a backdrop to the development and the wider community. Enhance the urban . village character of the redevelopment
- Utilise topography to maximise views and vistas. Ensure visual links to the Maunga are protected and enhanced.
- To create attractive and cohesive streetscapes and public domain
- · Enhance the urban village character of the development

STRATEGIES

Utilise views to Te Tatua a Riukiuta as a backdrop to the development, protect visual links to the Maunga.

- Connect the development to the surrounding neighbourhood with a network of paths, stairs, lifts and platforms.
- Blocks and key access roads will be orientated to maximise views towards the Maunga.
- Aspect and view linkages to the Maunga are maximised for both the development and for Three Kings suburb through careful alignments of blocks and streets.
- A high level of permeability is provided through the apartment blocks.
- Built forms will be used in the public domains, such as the Green and the Town Square, as framing elements to the northerly Maunga view shaft.

Landscaping and streetscapes

- · Native pohutakawas and bush plants will be used to line the new roadway to create an experience of travelling through thick New Zealand vegetation.
- Within The Riu Precinct, high-quality streetscapes and rain gardens will be integrated with medium density apartments and access paths.

- tall reeds.

Utilise topography to maximise views and vistas

Enhance the urban village character of the redevelopment



Street trees used throughout the rest of the site will be planted along typical road edges and will define the spacing of street parking that will be coupled with the hardscape strategy.

Wetland zones will be comprised of grasses, reeds, native ferns, and open-to air ponds. Access through these wetlands will be granted by a series of wooden boardwalks that meander through

 Cascading apartments against the quarry edge maximise outlook and will open views towards Maunga from the guarry floor.

· Respond to the site's urban context and integrate surrounding land uses into the redevelopment, such as Commercial/retail activities in the Town Square, community and sporting use in the Green and residential use throughout the development.



Architectural Precedents

5.7 BUILDING AND ARCHITECTURE

INTRODUCTION

The built form that is proposed is heavily influenced by the context, acknowledging the site's topography, the connection to Te Tatua a Riukiuta and the need to preserve important views and vista as well as the need to provide a frame for public domains and active streets. The architecture responds to the built form in the surrounding area, providing a well thought out urban response. It is varied in bulk and scale, creating unique neighbourhoods and places.



The Master plan is consistent with Residential 8 zoning objectives which aim to allow higher densities for developments within 'growth areas' in Auckland. This zoning responds to the need for smaller dwellings and a greater diversity of housing as a means to manage growth within Auckland City.

PRINCIPLES

- Introduce typologies that respect and relate to the landform
- Provide a consistent design language that creates architectural and visual interest for a range of uses.
- Provide attractive streetscapes and public spaces.
- Create high quality, sustainable homes.
- Bulk and scale of the building to respond to site topography, to be appropriate for the proposed land use and to form distinct neighbourhoods.

STRATEGIES

Introduce typologies that respect and relate to the landform

- Apartments are proposed to be built against the existing guarry slope. These buildings are designed to take advantage of the height difference between the existing roads and the proposed final level of the development, which will be reduced with the filling of the existing guarry to a managable level to approximately 15m - 17m below surrounding streets. This typology is designed to maximise the potential of the quarried landform by hiding service and car park spaces against the slope, and achieving residential
- Building typologies such as terraces and cascading apartments will be selected for their ability to traverse steep site conditions.

units on the faces with minimal excavation.

the year.

Consistent design language

- construction methods.
- site, street and block.

Provide attractive streetscapes and public spaces

Create high quality, sustainable homes

cross ventilation.



· These apartment buildings will be located such that the shadow cast does not adversely affect any adjacent dwellings throughout

• The built form will be contemporary in design and materiality, reflecting the needs of today's urban lifestyle and modern

A common design language is required to provide coherence to a variety of built form responses and diversity at the scales of the

· A consistent design language will ensure that buildings are designed to a common vision that enhances the existing and future desired built form and character of the neighbourhood.

· Bulk and scale of the built form and the edge treatment will consider the activation of streets and public spaces.

• Promote built form and open space for safety and surveillance.

The proposed built form strategy follows good passive thermal design guidelines surrounding solar access, orientation and

Maximise views and outlooks from the apartments.





THESE PLANS OUTLINE THE VISION OF FLETCHER RESIDENTIAL LTD AND ARE NOT ENDORSED BY AUCKLAND COUNCIL