TABLE OF CONTENTS

Project No. and Description		Page
RP GN 03	Gonubie Main Road Widening	79
RP GN 01	Beacon Bay – Gonubie New Arterial	80
TSM EL 07/08	Park Ave / Thorburn Terrace Upgrade	81
RP EL 14	NWX : Frederick Street to Main Road	82
TSM EL 13	Oxford Street Closure	83
TSM EL 34.1	Mdantsane Access Road : Various Improvements	84
TSM EL 32.9	Bonza Bay Rad Traffic Circles	85
RP MD 01	Qumza Highway Upgrade	86
RP EL 27	Fitzpatrick Road Re-alignment	87
RP EL 33	IDZ: Breezyvale link Road first carriageway	88
RP GN 3.1	Gonubie Main Road / N2 on-ramp	89
RP BB 08	Bonza Bay Road / N2 on-ramp	90
TSM EL 30	NEX / N2 interchange off-ramp	91
RP EL 11	Batting bridge & approaches to NEX on-ramp	92
RP DV 01	Sunnyside Road extention to Douglas Smit	93
RP EL 16	NWX: Amalinda Main to Summerpride	94
RP EL 21	Buffalo River Crossing R72 to MAR	95
TSM KWT 01	Zwelitsha Road pedestrian facility	96
PROP 01	MAR : Main entrance to Woolwash Road	97
RP EL 34	IDZ Harbour Arterial Phase1	98
RP EL 35	IDZ Harbour Arterial Phase2	99
RP EL 36	IDZ Harbour Arterial 2nd carriageway to existing section	100
RP EL 38	IDZ 2nd Carriageway to Breezyvale Link Rd	101
RP EL 08	Park Arterial : NEX to Settlers Way	102
RP EL 05	Lower Croydon Road	103
RP EL 17	Windermere Road upgrade	104
PROP 03	MAR : Woolwash to Douglas Smit	105
RP MD 08	Billie Road / N2 Interchange	106
RP MD 07	Mdantsane / N2 Interchange	107
PROP 04	Mdantsane Perimiter Road	108
RP KWT 01	King Williams Town By-Pass	109
RP EL 25	Buffalo River Crossing N2 – Ziphunzana	110
RP EL 28	Western Ave / N2 Interchange	111

RP EL 29 Kings Way Rail Underpass …….. 112
RP MD 09 MAR R102 link over rail…….....113
RP EL 30 Voortrekker Road Upgrade…….....114
RP EL 31 Amalinda Main Road N2 Interchange……..... 115
RP EL 37 IDZ : Westward extension of Harbour Arterial – Cove Rock..... 116
RP EL 39 IDZ : 2nd Carriageway Eastward extension, Harbour Arterial..... 117
RP MD 10 Billie Road Upgrade……..... 118

1. Title

Gonubie Main Road Upgrade

2. Problem Definition

Commuters from the Gonubie and Quinera areas are able to access only one major route inbound to the CBD. Additional capacity will be required to cope with future demand.

3. Data

Refer to the “Draft Arterial Roads Plan : 1995-2015” for future traffic data relevant to this project.

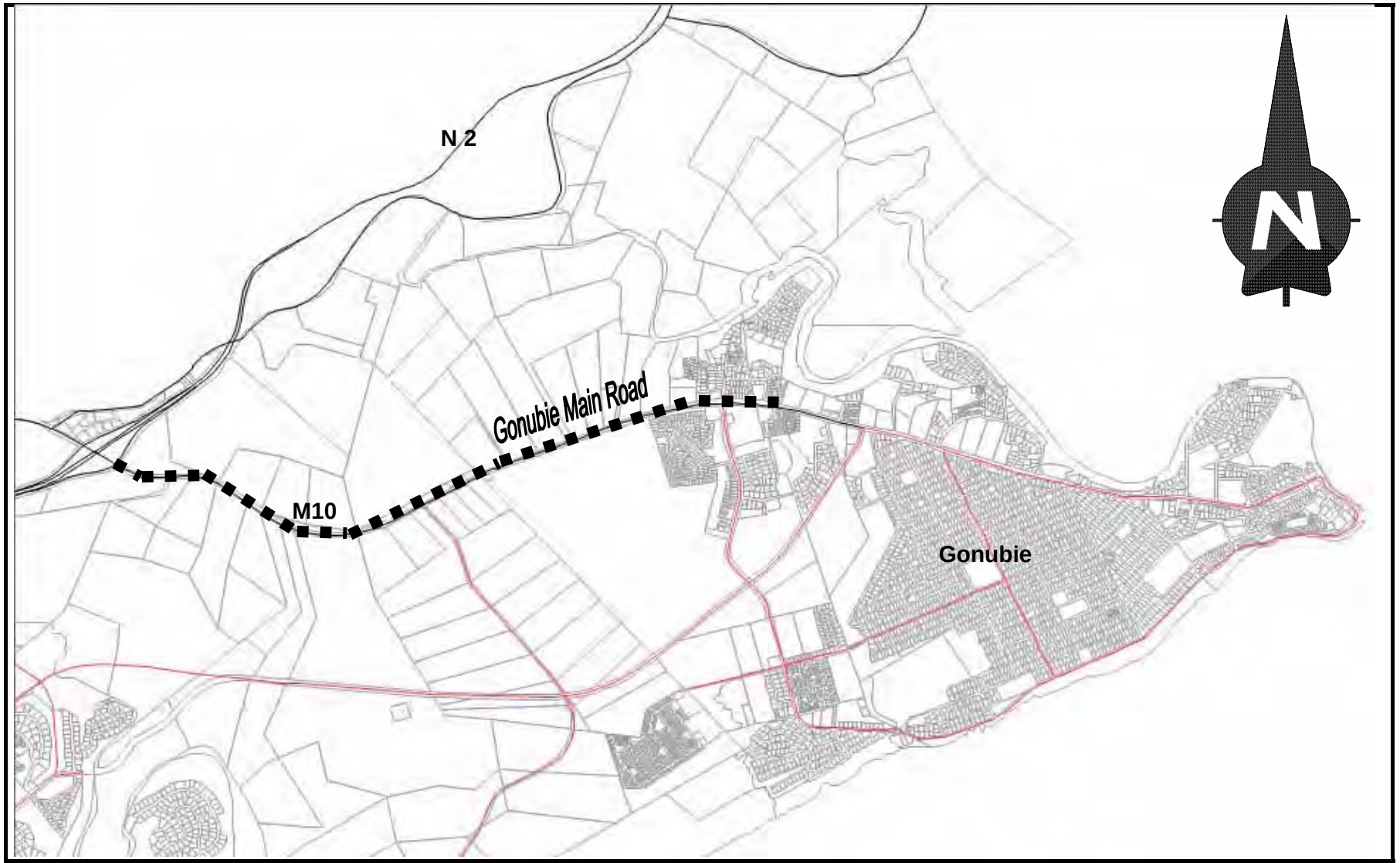
4. Project Description

The project will involve the design and construction of two additional lanes on Gonubie Main Road from Gullsway to the N2 interchange.

The estimated cost as at September 2006 is R30.0m.

5. Project Classification

Road Project



Widening of Gonubie Main Road: Phase 1 & 2	RP GN 03

1. Title

Beaconhurst Drive

2. Problem Definition

A shorter more direct and safer route between the two suburbs of Beacon Bay and Gonubie is desired. The route has been finalized and included in the approved Structure Plans. The new link will also open up the area for development.

3. Data

Traffic projections indicate a growth in vehicles traversing the Quinera River.

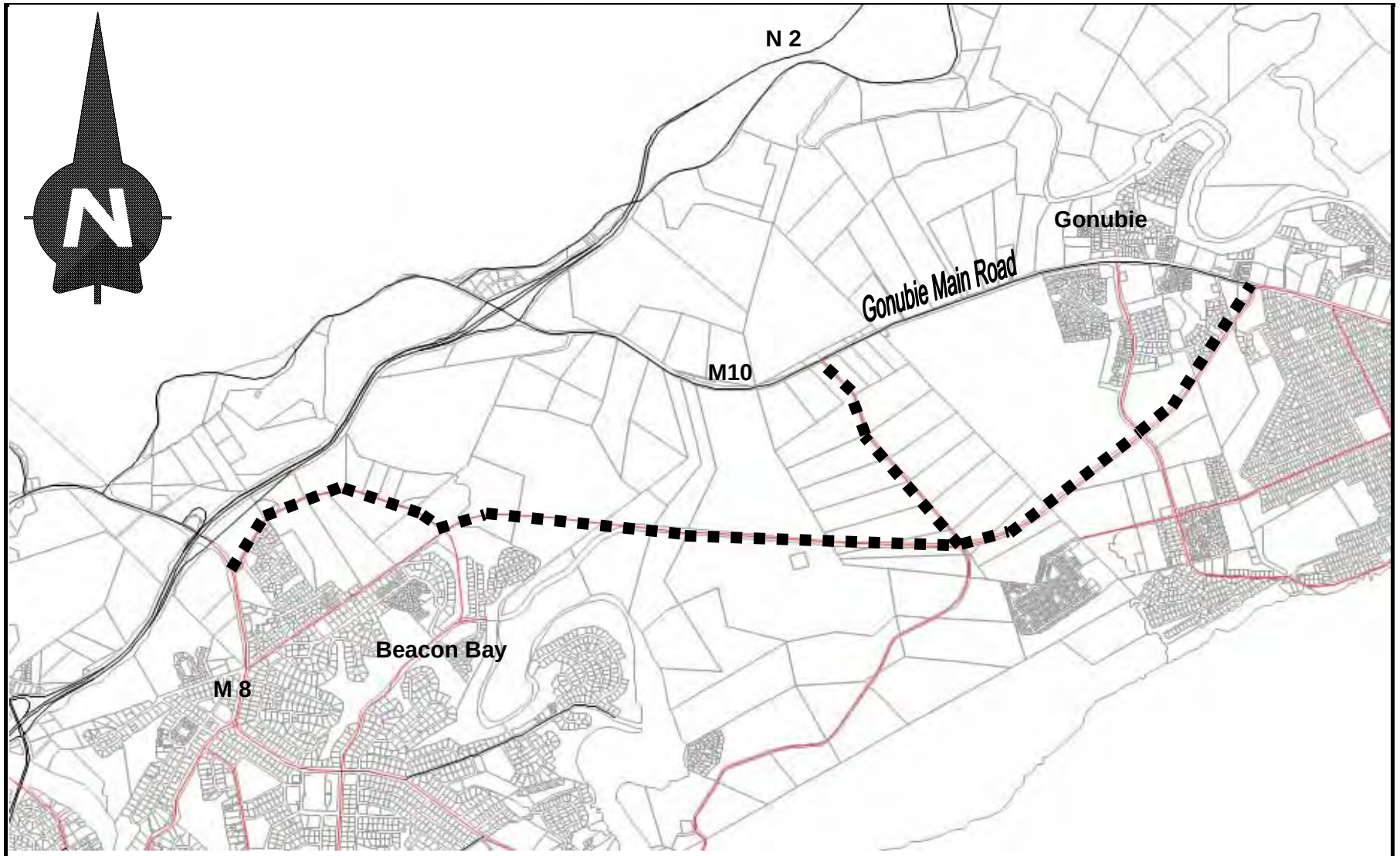
4. Project Description

The project would involve the design and construction of Beacon Bay - Gonubie arterial link road between Quinera Drive and Gonubie Main Road. The associated Transport Systems Management required to accommodate the expected additional traffic will also be included.

The estimated cost of the project as at September 2006 is R60m,

5. Project Classification

Road Project



Beacon Bay - Gonubie: New Arterial Road	RP GN 01

1. Title

Park Avenue / Thorburn Terrace – Cross Town Feeder System

2. Problem Definition

Traffic from the north eastern sector of the city traveling into the northern part of the CBD and to the West Bank area has no direct link from the North East Expressway and has to find it's way either through the central city area or via Fitzpatrick Road and Fleet Street. A more direct link is desirable.

3. Data

Comprehensive traffic data and traffic projections to the year 2010 are available for the CBD area and for the proposed route.

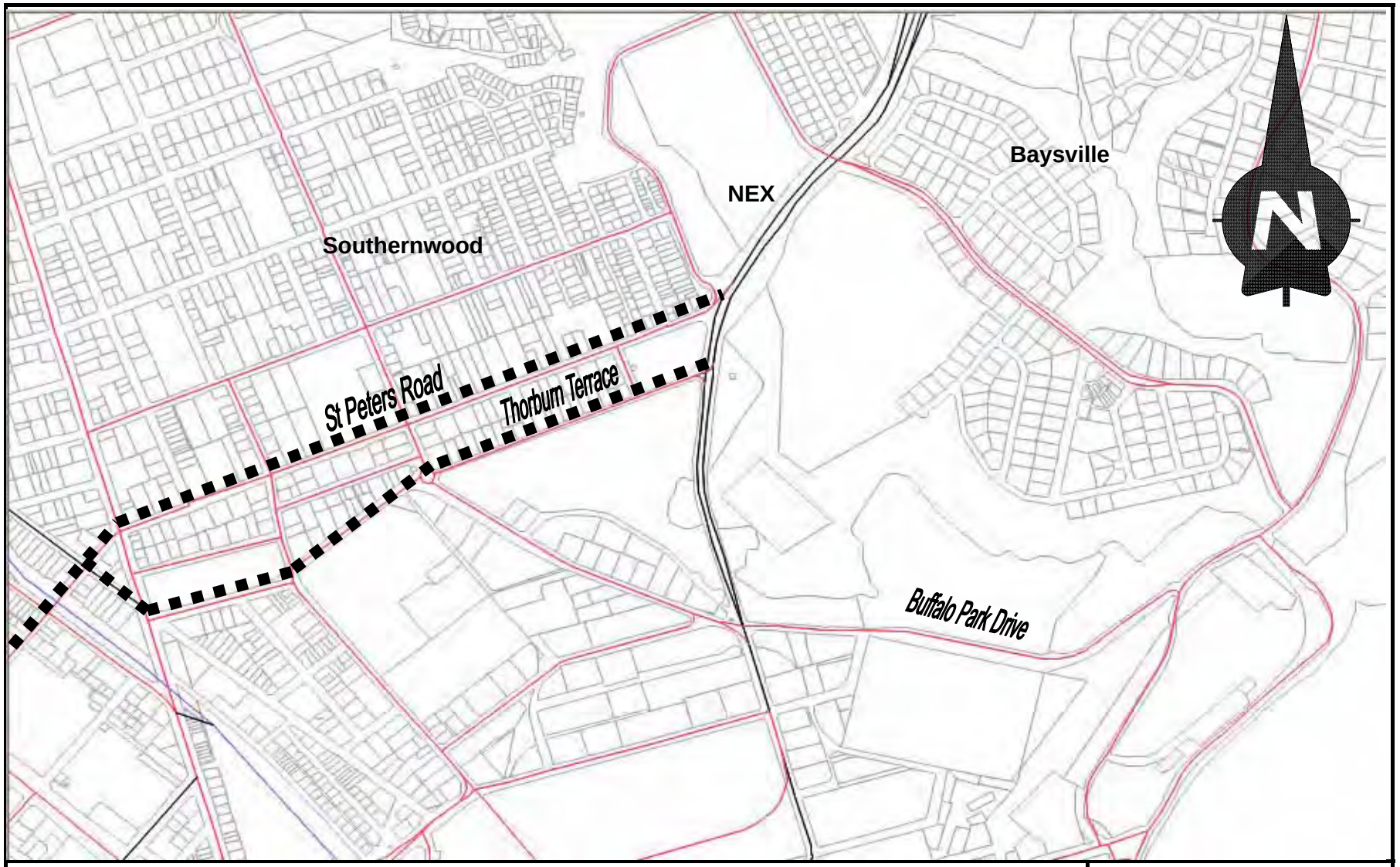
4. Project Description

The project involves the design and construction of a route between Beaconsfield Road and the North East Expressway using portions of St. John's Road, Belgravia Crescent, Lambart Road, Graham Road and Thorburn Terrace and St. Peter's Road.

The estimated cost as at September 2006 is R20m,

5. Project Classification

Road Project



Park Avenue / Torburn Terrace Cross Town Feeder System	TSM EL 07 & 08

1. Title

North West Expressway: Frederick Street to Amalinda Main Road

2. Problem Definition

High volumes of traffic originating in the north western section of the city heading to the CBD and West Bank in the morning peak are channeled via Amalinda Main Road and Oxford Street. This is overloading these arterials. The North West Expressway is already constructed as far as Frederick Street.

Access from Ziphunzana Bypass to Frere Hospital is circuitous.

3. Data

Comprehensive traffic data and traffic projections to the year 2015 are available for this link.

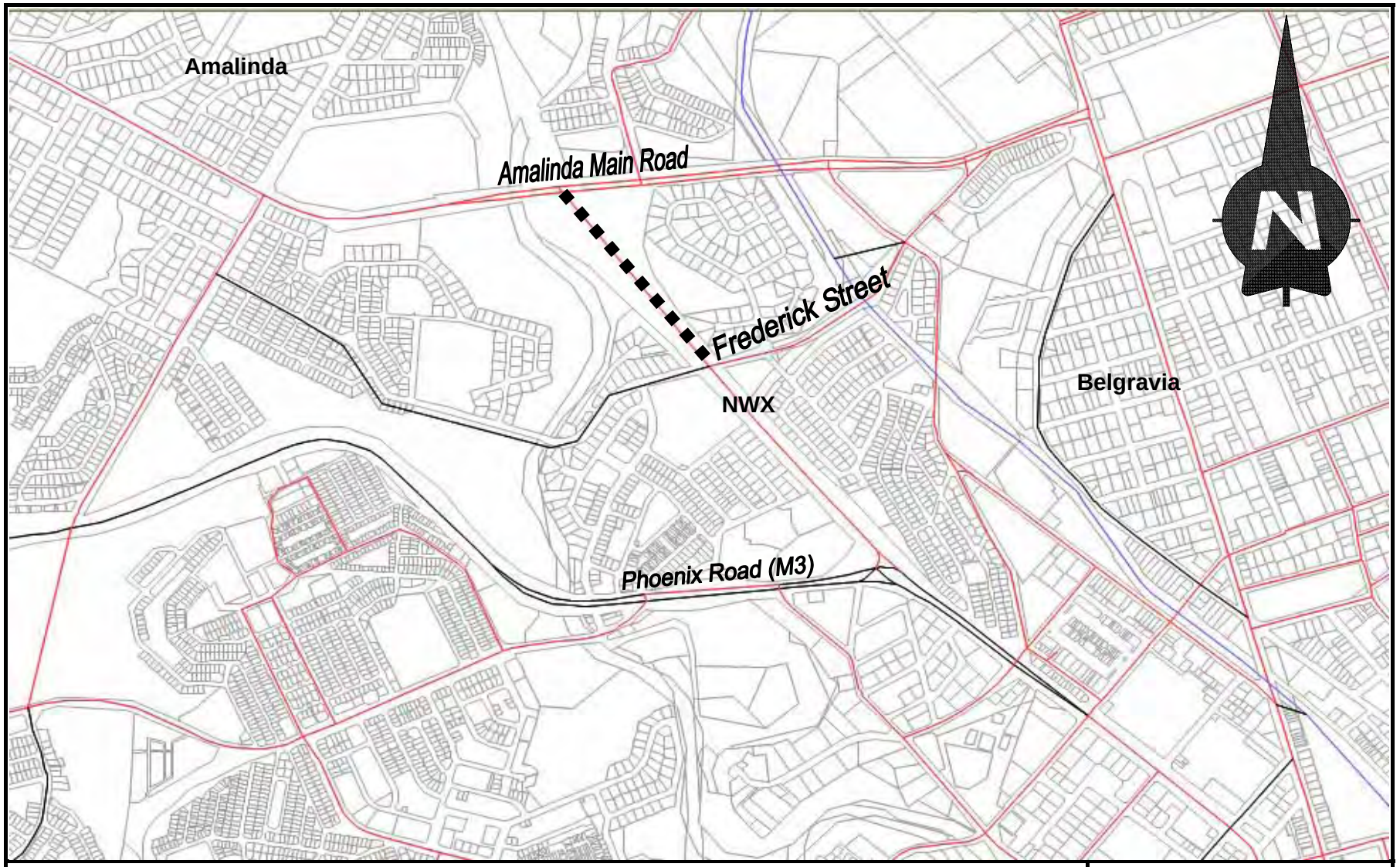
4. Project Description

This project will involve the construction of a two-lane carriageway between Frederick Street and Amalinda Main Road.

The estimated cost as at September 2006 R8,0m.

5. Project Classification

Road Project



NWX Frederick Street to Amalinda Main Road	RP EL 14

1. Title

Oxford Street Closure and Pedestrianisation

2. Problem Definition

Oxford Street is heavily congested at present and has limited on-street parking.

Shops in the CBD are losing customers to satellite shopping developments where access and parking are readily available. As a result little or no growth is taking place within the CBD and the continues existence of many shops is questionable.

The CBD needs to be made more attractive by increasing the available parking, improving the access of public transport and facilitating pedestrian movement.

3. Data

Refer to the report “East London Central Area Traffic Study-Phase 2: Parking Study” for details of parking patterns.

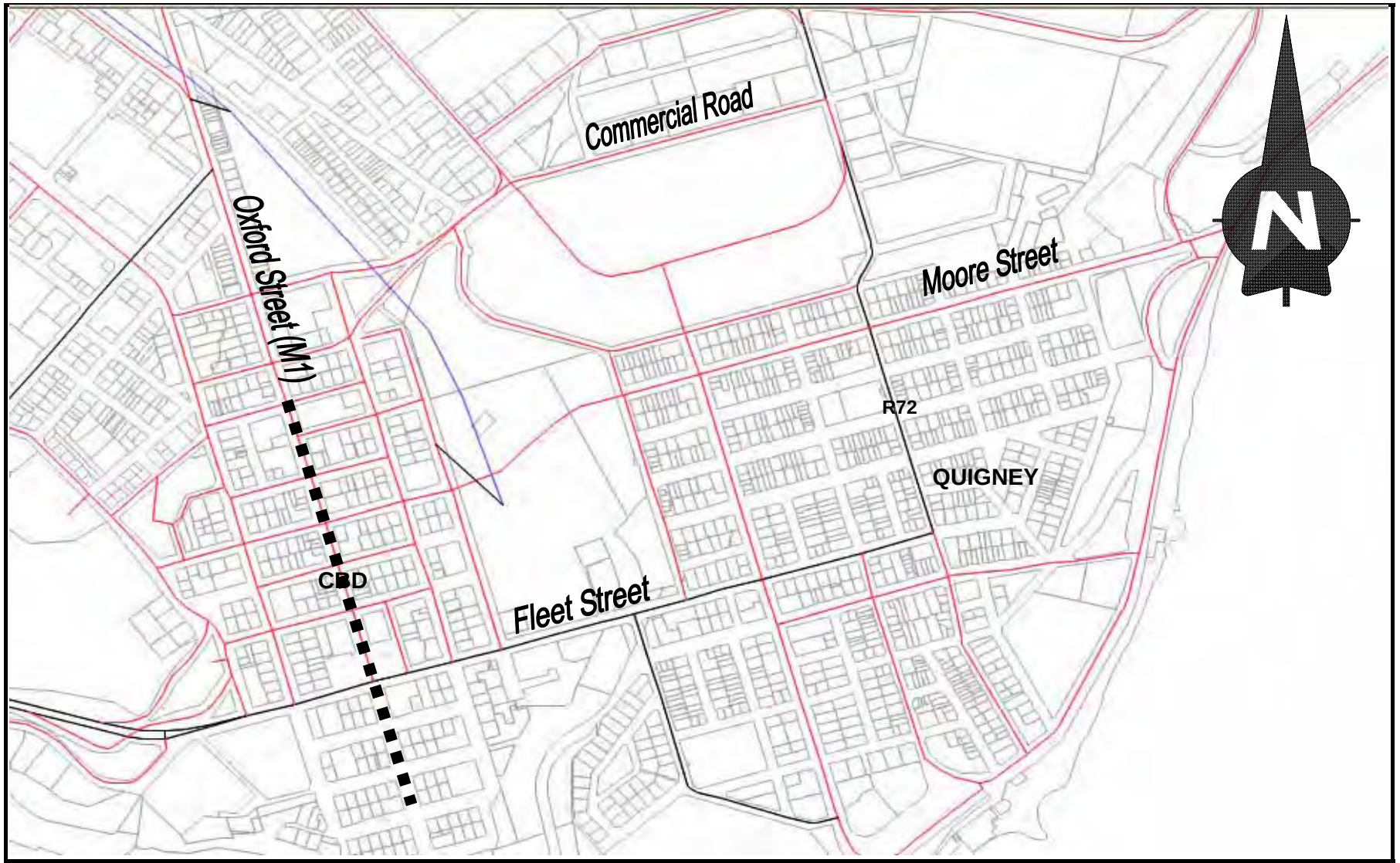
4. Project Description

The project will involve the closure and semi pedestrianisation of Oxford Street between North and Fleet Streets with alternate sections of on-street parking and the construction of a central bus terminus.

The estimated cost as at September 2006 is R10.0m.

5. Project Classification

TSM Project



Oxford Street Pedestrianisation	TSM EL 13

1. Title

Mdantsane Access Road improvements

2. Problem Definition

Traffic safety and capacity problems are frequent along the Mdantsane Access Road.

Public transport operations occur in undesignated areas. The population along the route is increasing as development is progressing with the associated increase in activity and traffic on the route these problems are compounded.

The road needs to be improved in various ways to address these problems.

3. Data

Refer to the report on Mdantsane Access Road Safety Audit Report completed by SWECO 2004.

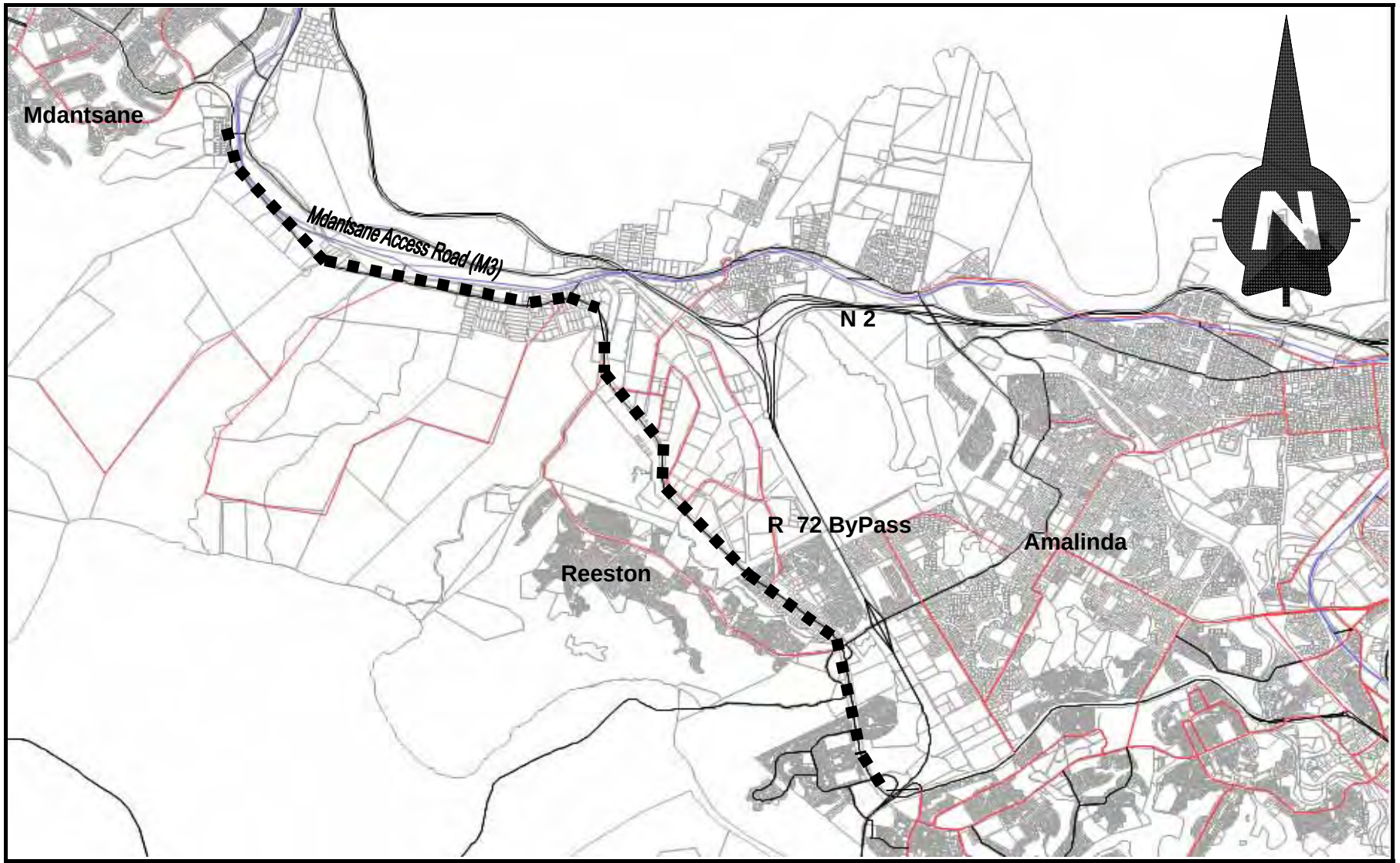
4. Project Description

The project will involve various TSM type improvements on an ongoing basis along the route.

The estimated cost as at September 2006 is R10.0m.

5. Project Classification

TSM Project



MDANSANE ACCESS ROAD: Various Improvements	TSM EL 34.1

1. Title

Bonza Bay Road Traffic Circles

2. Problem Definition

Traffic safety and capacity problems are caused by the poor geometric design of the traffic circles at Beaconhurst Drive and Batting Road intersections with Bonza Bay Road.

The circles have two approach lanes along Bonza Bay Road approaches but only one effective circulating lane around the circle centre islands.

The circles need to be improved to provide for two circulating lanes.

3. Data

Refer to minutes of technical liasson committee meetings.

4. Project Description

The project will involve the design and implementation of TSM type improvements at the identified intersections along Bonza Bay Road.

The estimated cost as at September 2006 is R1.0m.

5. Project Classification

TSM Project

Bonza Bay Road Traffic Circles	TSM EL 32.9

1. Title

Qumza Highway Upgrade

2. Problem Definition

The upgrading of Qumza Highway has been identified as one of the most urgent projects in Mdantsane due to the high traffic volume and the deteriorated condition of the road. The section remaining to be upgraded is between Billie Road and Golden High Way.

3. Data

Detailed traffic counts, planning and preliminary design reports are available.

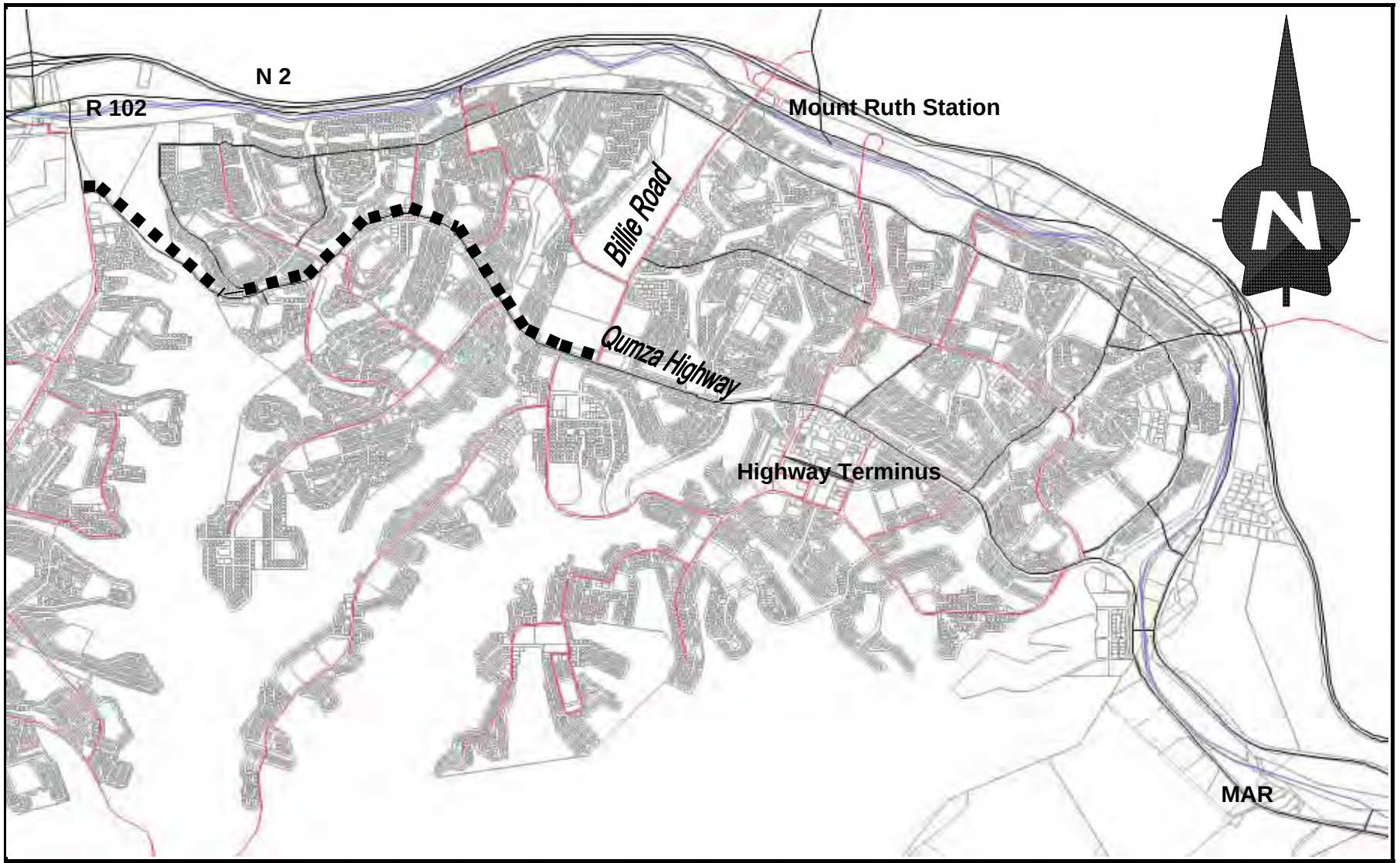
4. Project Description

The project involves the phased reconstruction of Qumza Highway between Golden Highway and Billie Road including bus and minibus taxi bays and double traffic lanes where required.

The estimated cost as at September 2006 is R40.0m.

5. Project Classification

Road Project



Qumza High Way Upgrade	RP MD 01

1. Title

Fitzpatrick Road re-alignment and Sleeper site roads

2. Problem Definition

The development of the Sleeper Site is about to commence and as part of this development the improvement of the R72 alignment along Fitzpatrick Road is proposed by relocating the road via the Sleeper site and link the NEX with the upper end of Currie Street. No north bound traffic will then be allowed to approach the Commercial Fitzpatrick intersection along the current alignment.

Further to the above new links are proposed between Recreation and Signal Street and an east west link across the rail lines opposite Union Street. These links will improve the current linkage between Quigney and the CBD and will greatly improve the developabillity of the Sleeper site and in return contribute toward reviving the CBD.
This arrangement will provide safer geometrics along the R72 and will benefit through traffic as well as commuter traffic relating to the CBD and West bank.

3. Data

Refer to the report CBD and Sleeper Site Traffic Study 1998/9, Stewart Scott for details.

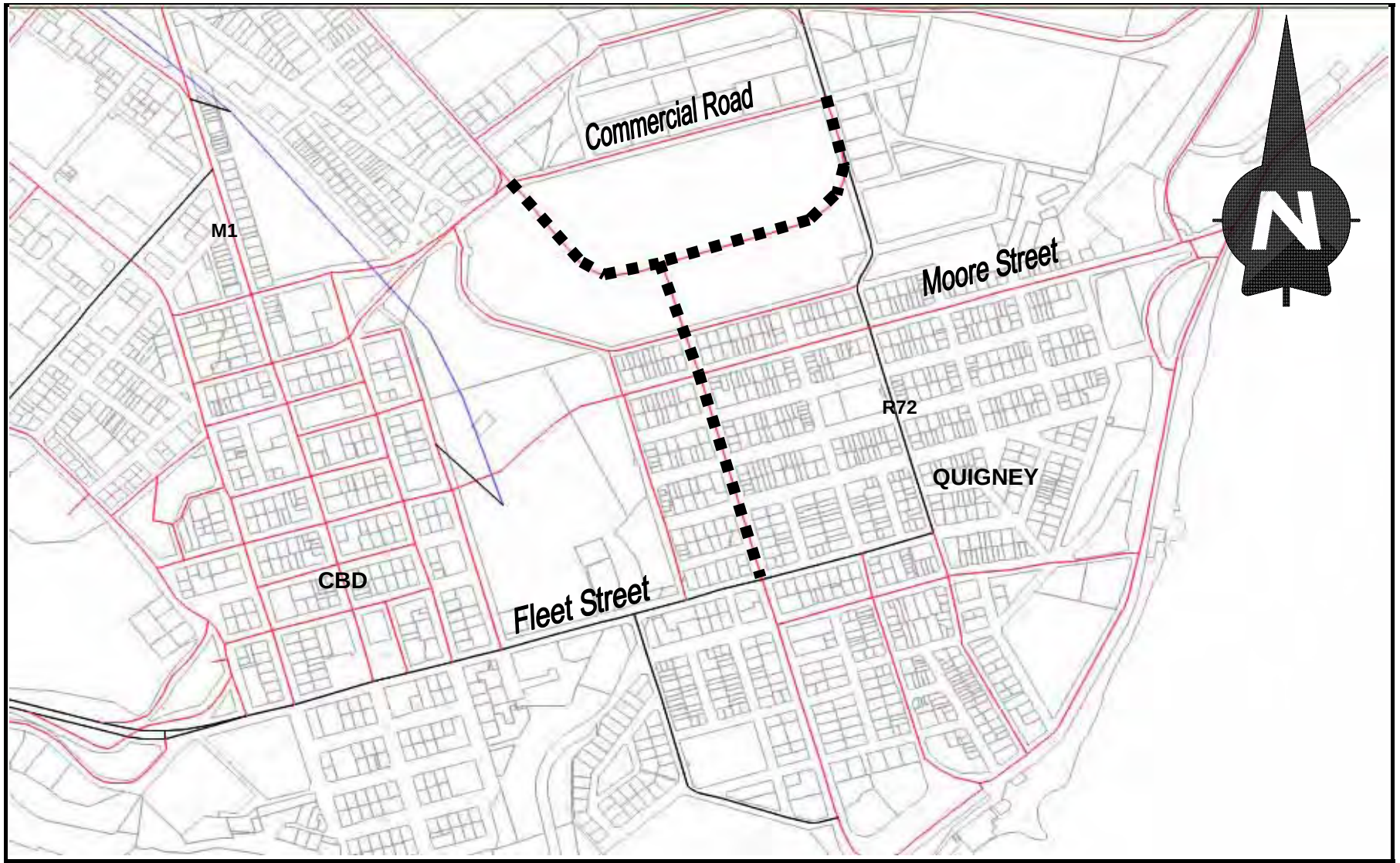
4. Project Description

The project will involve the design and construction of a new four lane carriageway with associated intersections between the NEX/Commercial Road intersection and the upper end of Currie Street, a link across the rail lines and a link between Recreation Road and Signal Street.

The estimated cost as at September 2006 is R60.0m.

5. Project Classification

Road Project



Fitzpatrick Road / R72 Sleeper Site Re-alignment	RP EL 27

1. Title

Breezyvale Link Road

2. Problem Definition

The development of the IDZ would eventually require direct access routes between the Airport and zone 1B. Further more the Breezyvale link road will reduce the pressure expected at the Chester Road / Settlers Way intersection.

3. Data

Refer to the IDZ transportation Planning Document – Ninham Shand.

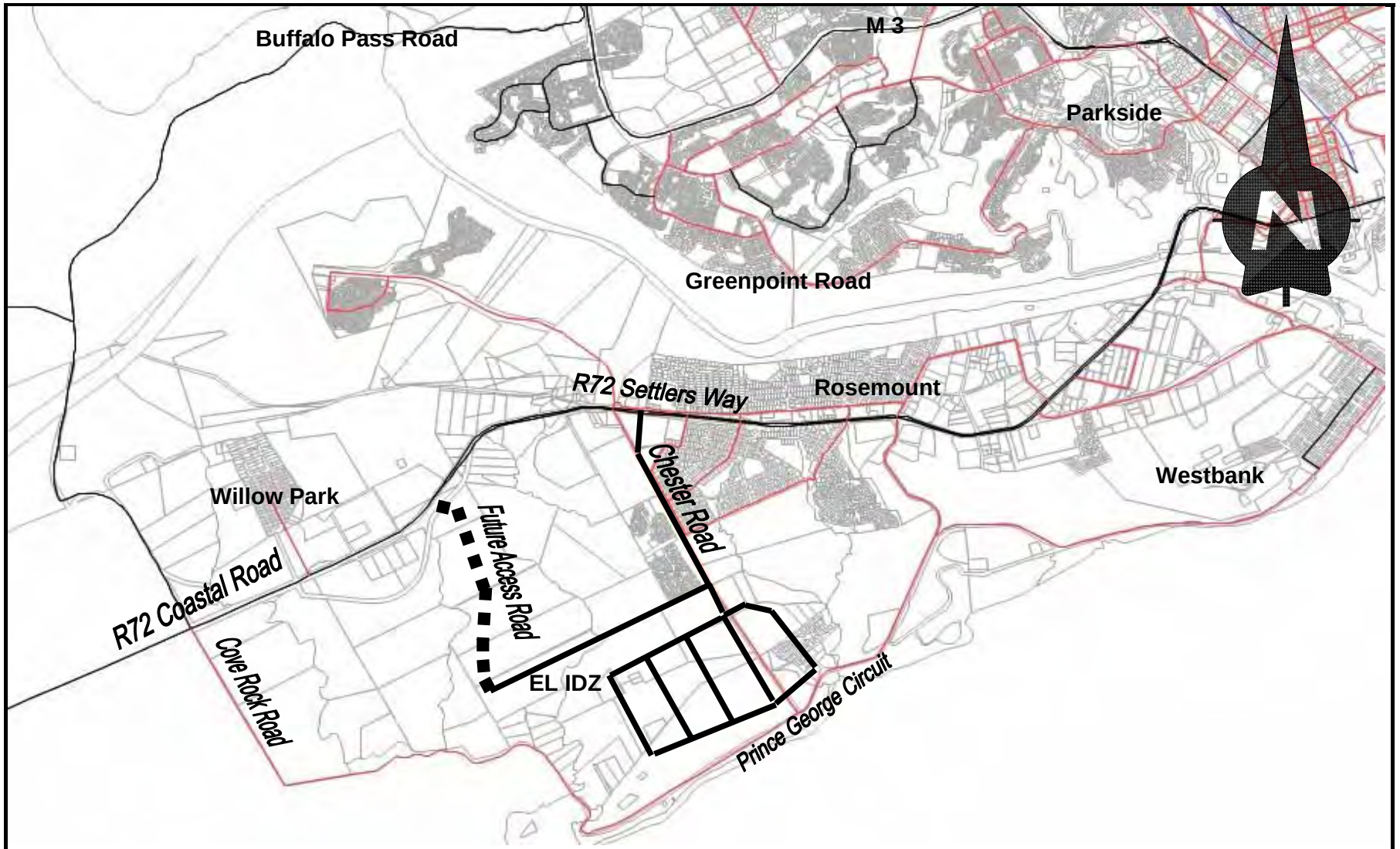
4. Project Description

The Breezyvale Link Road (M18), passing the entrance to Zone 1B, is surfaced as the final four-lane divided arterial for about 200m beyond the entrance. This road will serve the planned Nordev (Land Restitution) township north of Zone 1B and the Airport Residential Township Phase II already established in the same area.

The estimated cost as at September 2006 is R3.0m.

5. Project Classification

Road Project



IDZ ROAD NETWORK : ZONE 1B ACCESS ROAD	RP EL 33

1. Title

Upgrade N2 interchange Ramps: Gonubie (1054).

2. Problem Definition

Additional capacity will be required for the interchange ramps with the N2: Gonubie (On) westbound and (off) eastbound for the predicted future volume of traffic.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

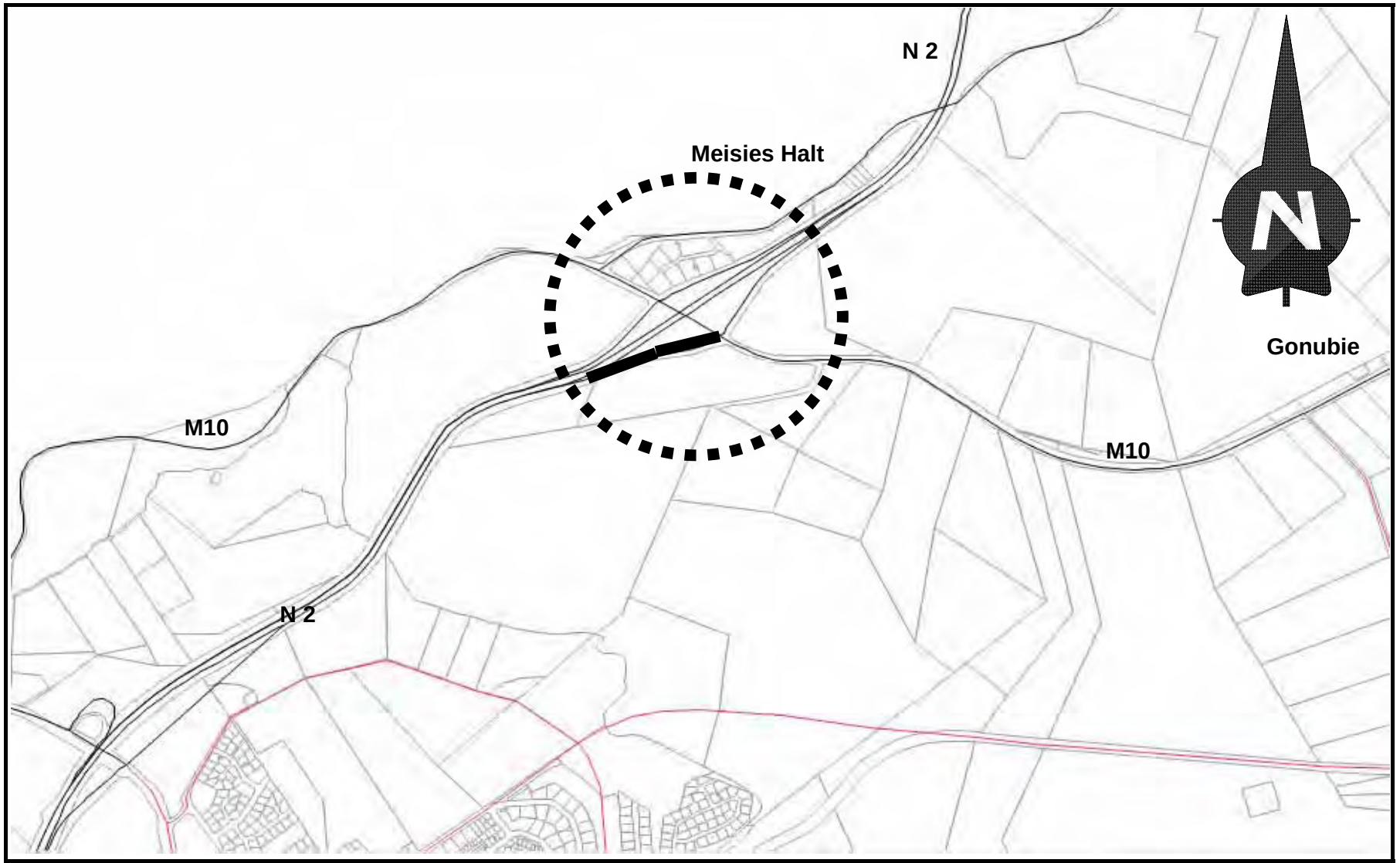
4. Project Description

The project will involve the design and construction of an additional lane on the said ramps at the Gonubie interchanges with the N2:

The estimated cost as at September 2006 is R6.0m.

5. Project Classification

Road Project



Gonubie Main Road / N2 Interchange WB on Ramp	RP GN 3.1

1. Title

Upgrade N2 interchange Ramps: Beacon Bay (1051)

2. Problem Definition

No eastbound onramp exist and the existing eastbound offramp has a very tight geometric layout. Upgrading of the interchange to a full diamond interchange is required to provide for the predicted future volume of traffic.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

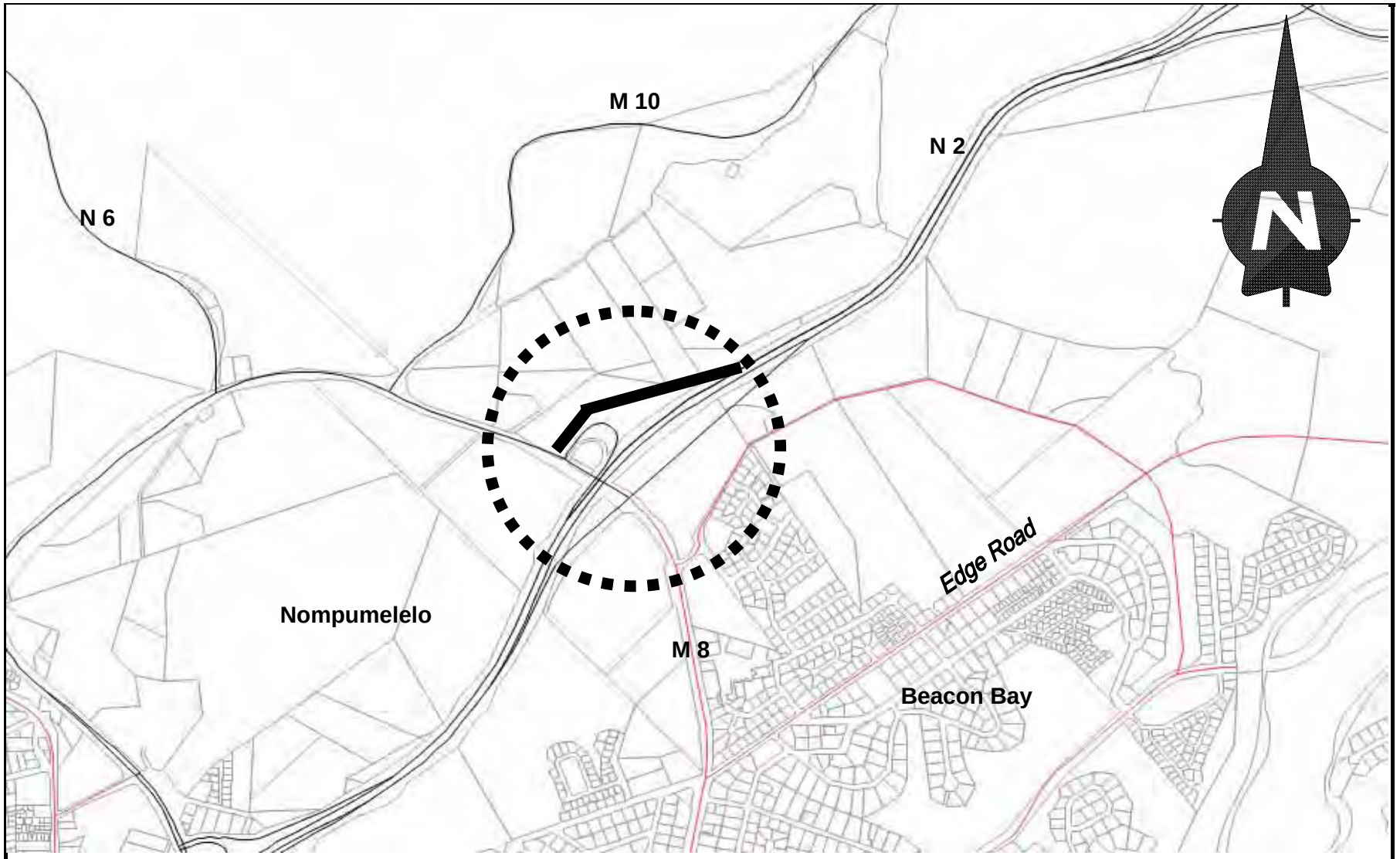
4. Project Description

The project will involve the design and construction in order to upgrade the existing facility to a full diamond interchange.

The estimated cost as at September 2006 is R12.0m.

5. Project Classification

Road Project



Bonza Bay Road / N2 Interchange EB on Ramp	RP BB 08

1. Title

Upgrade N2 interchange Ramps: Nahoon (1049)

2. Problem Definition

Additional capacity will be required at the interchange ramps with the N2: Nahoon (Off) to provide for the predicted future inbound volume of traffic.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

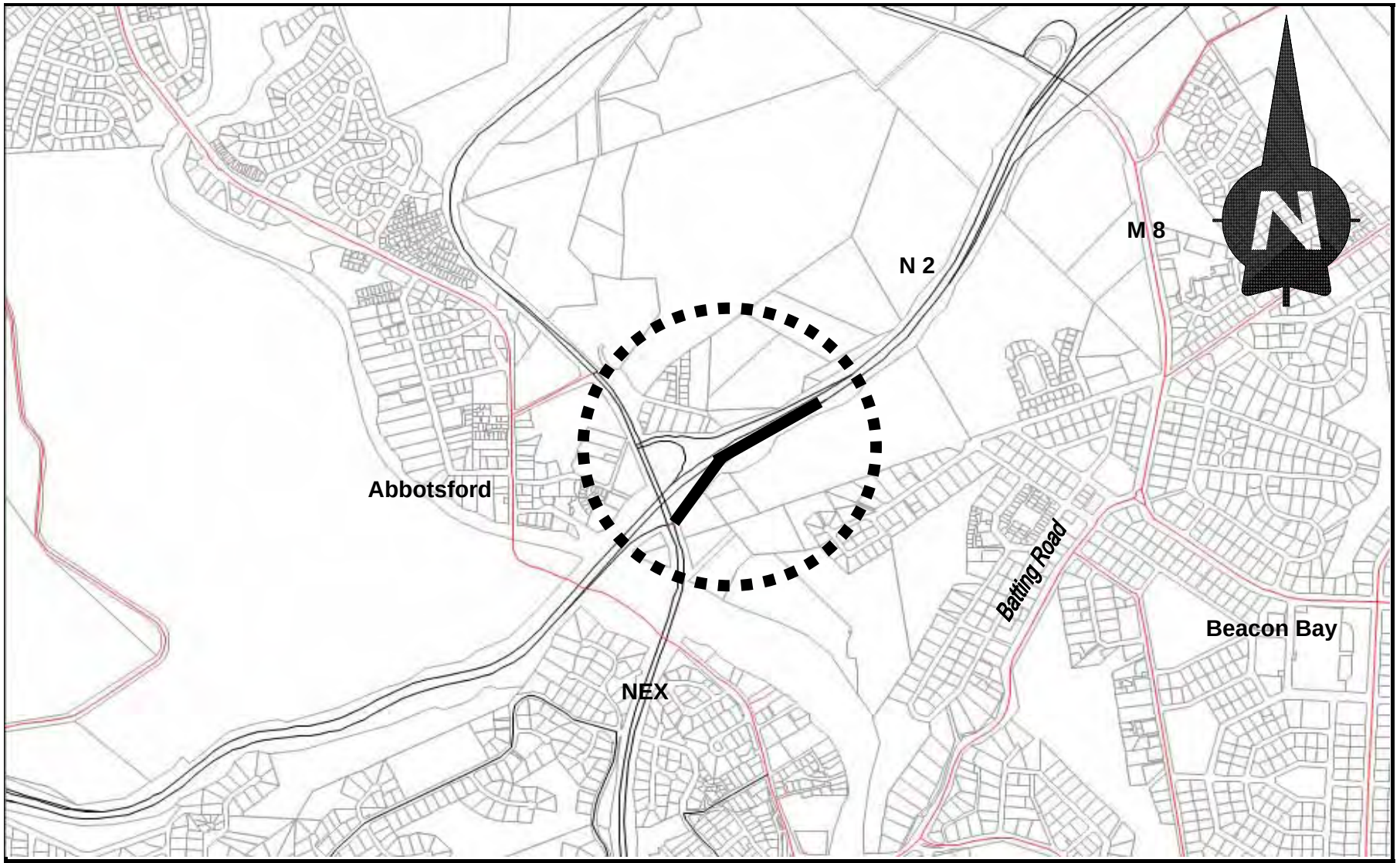
4. Project Description

The project will involve the design and construction of an additional lane on the westbound off ramp: Nahoon (1049) Off Ramp

The estimated cost as at September 2006 is R10.0m.

5. Project Classification

Road Project



NEX / N2 Interchange WB off Ramp	TSM EL 30

1. Title

Batting Bridge and Approaches

2. Problem Definition

Although recent TSM measures have been implemented on the Batting Link between Beaconhurst Drive and Old Transkei Road, capacity still remains the major constraint along this section of road.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

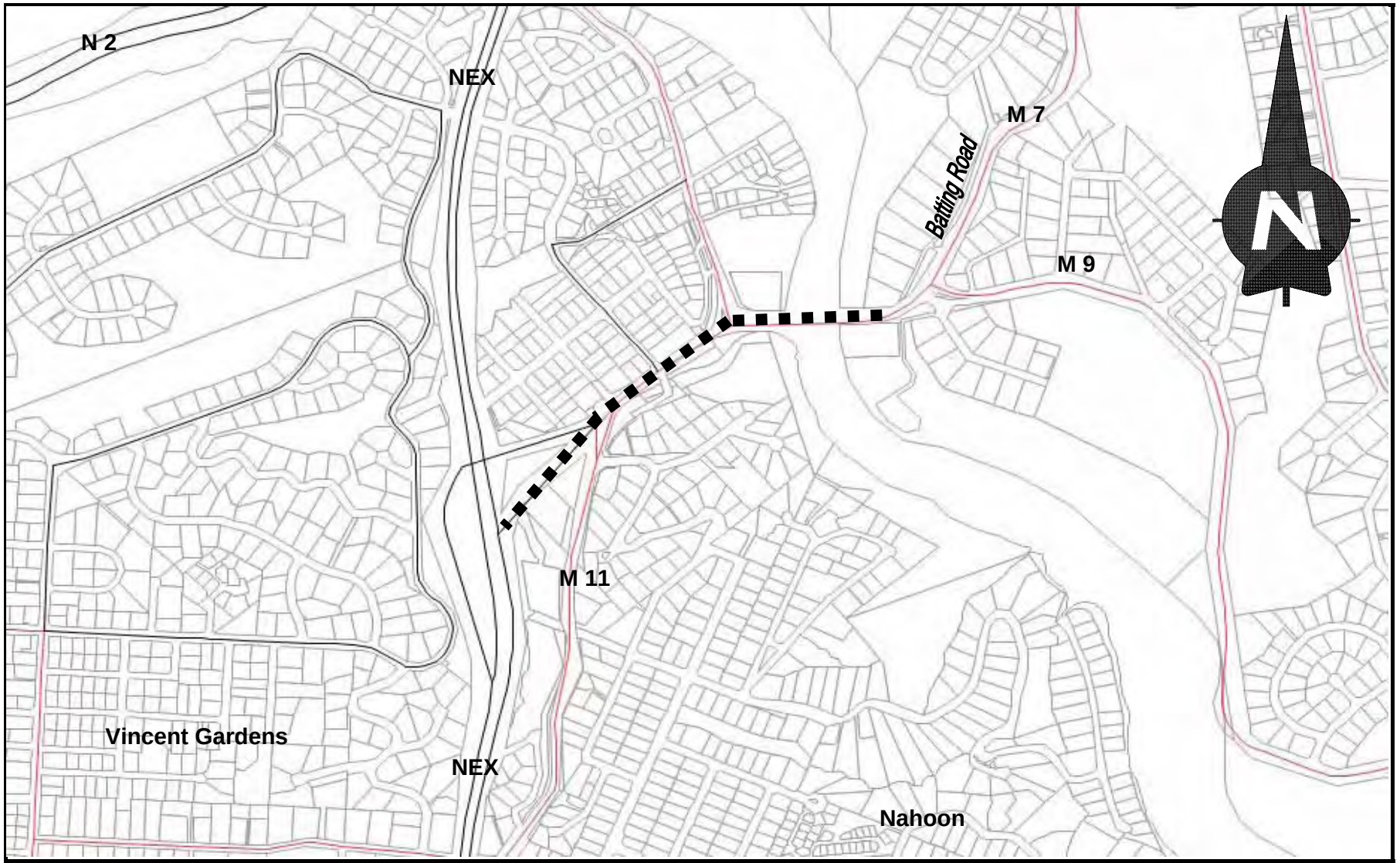
4. Project Description

The project will involve the design and construction of an additional two-lanes between Beaconhurst Drive and Old Transkei Road including the widening of the bridge structure and adding a lane on the NEX SB onramp.

The estimated cost as at September 2006 is R40.0m.

5. Project Classification

Road Project



Batting Bridge & Approaches, NEX SB on ramp	RP EL 11

1. Title

Duncan Village Link Roads and Douglas Smith Highway Improvements

2. Problem Definition

There is one link remaining to be constructed of the initial planned links under this project.

3. Data

The Duncan Village Transport study contains the relevant data.

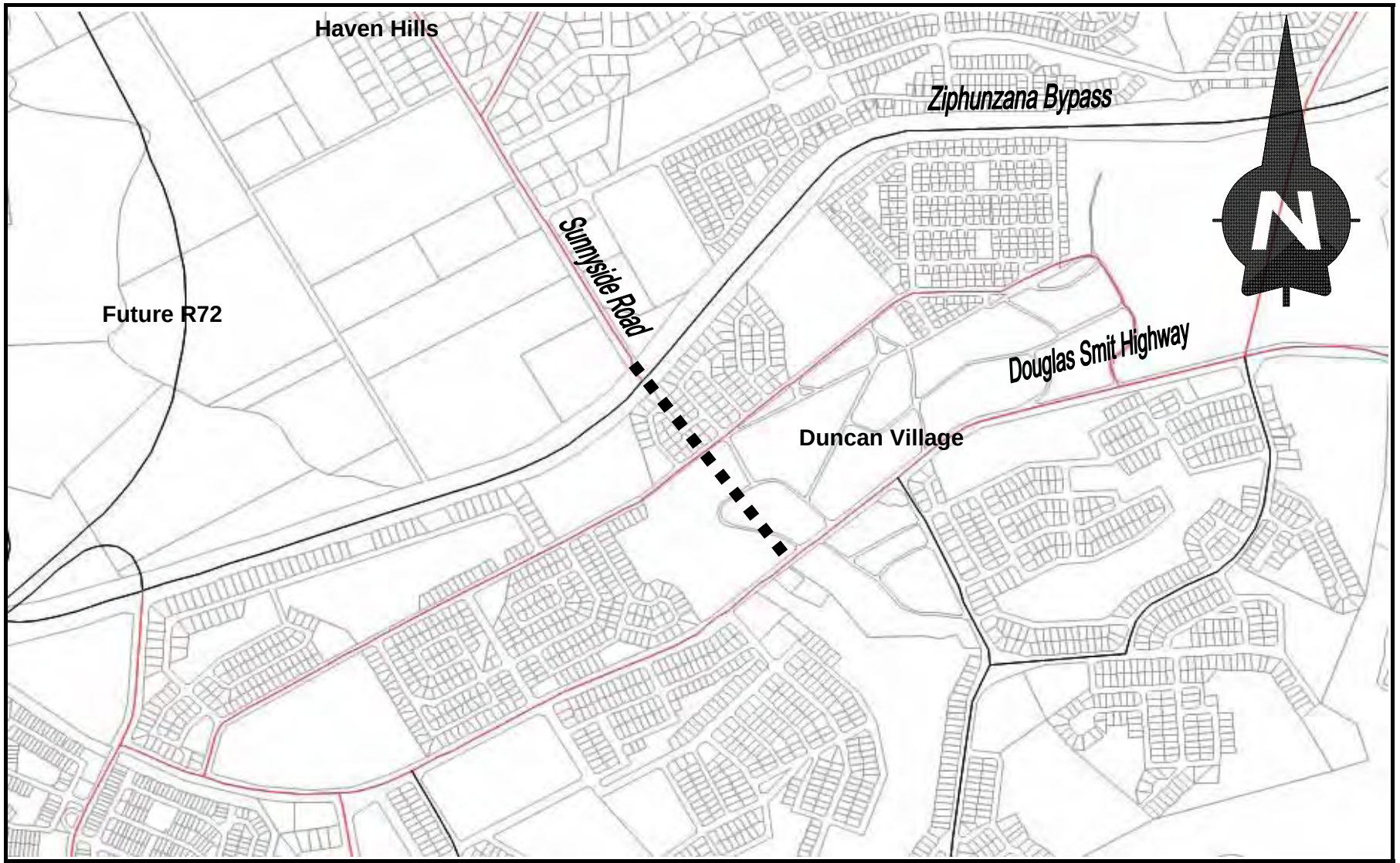
4. Project Description

The project will involve the design and construction of a link road between Duncan Village and the Ziphunzana Bypass opposite Sunnyside Road improving Douglas Smith Highway.

The estimated cost as at September 2006 is R9.0m.

5. Project Classification

Road Project



Sunnyside Road Extention to Douglas Smit High Way	RP DV 01

1. Title

North West Expressway : Amalinda Main Road to Summerpride

2. Problem Definition

This scheme proposes to continue the NWX from Amalinda Main Road to Summerpride. This high mobility route will relieve anticipated congestion on Western Avenue and Amalinda Main Road.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

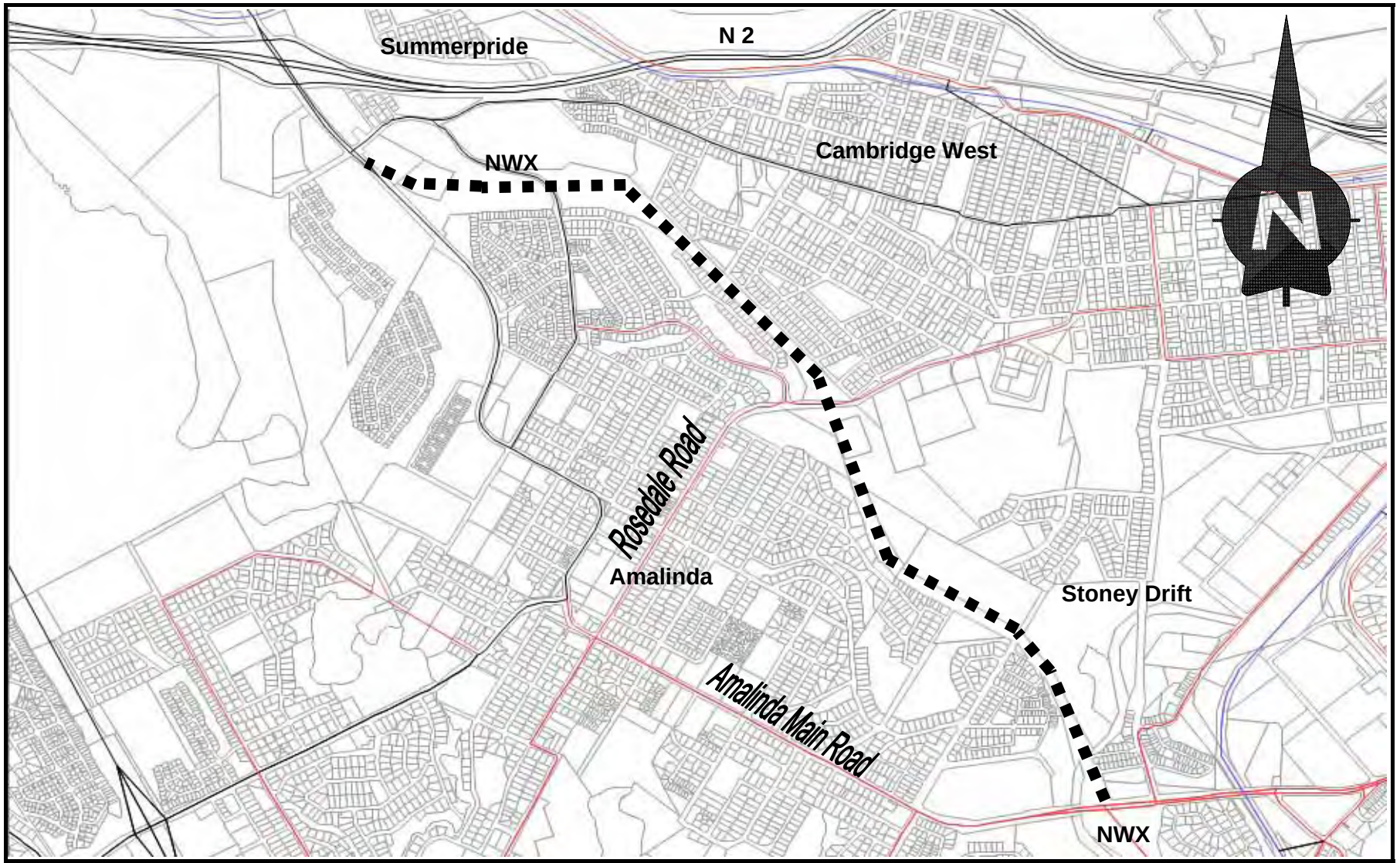
4. Project Description

The project will involve the design and construction of an limited access arterial with a cross section of four lanes.

The estimated cost as at September 2006 is R60.0m.

5. Project Classification

Road Project



NWX : Amalinda Main Road to Summerpride	RP EL 16

1. Title

Buffalo River Crossing : Ziphunzana Bypass to the Airport Bypass

2. Problem Definition

The need for an additional road bridge over the Buffalo River has been identified for a number of reasons. A new crossing will reduce travel time between the eastern areas and the West bank, create a diversion for traffic traveling through the CBD and potentially enhance growth and development on the West Bank.

3. Data

Refer to the report “Proposed Buffalo River Bridge and Arterial Road Link between the N2 and R72 – Feasibility Study : PAET C” for details.

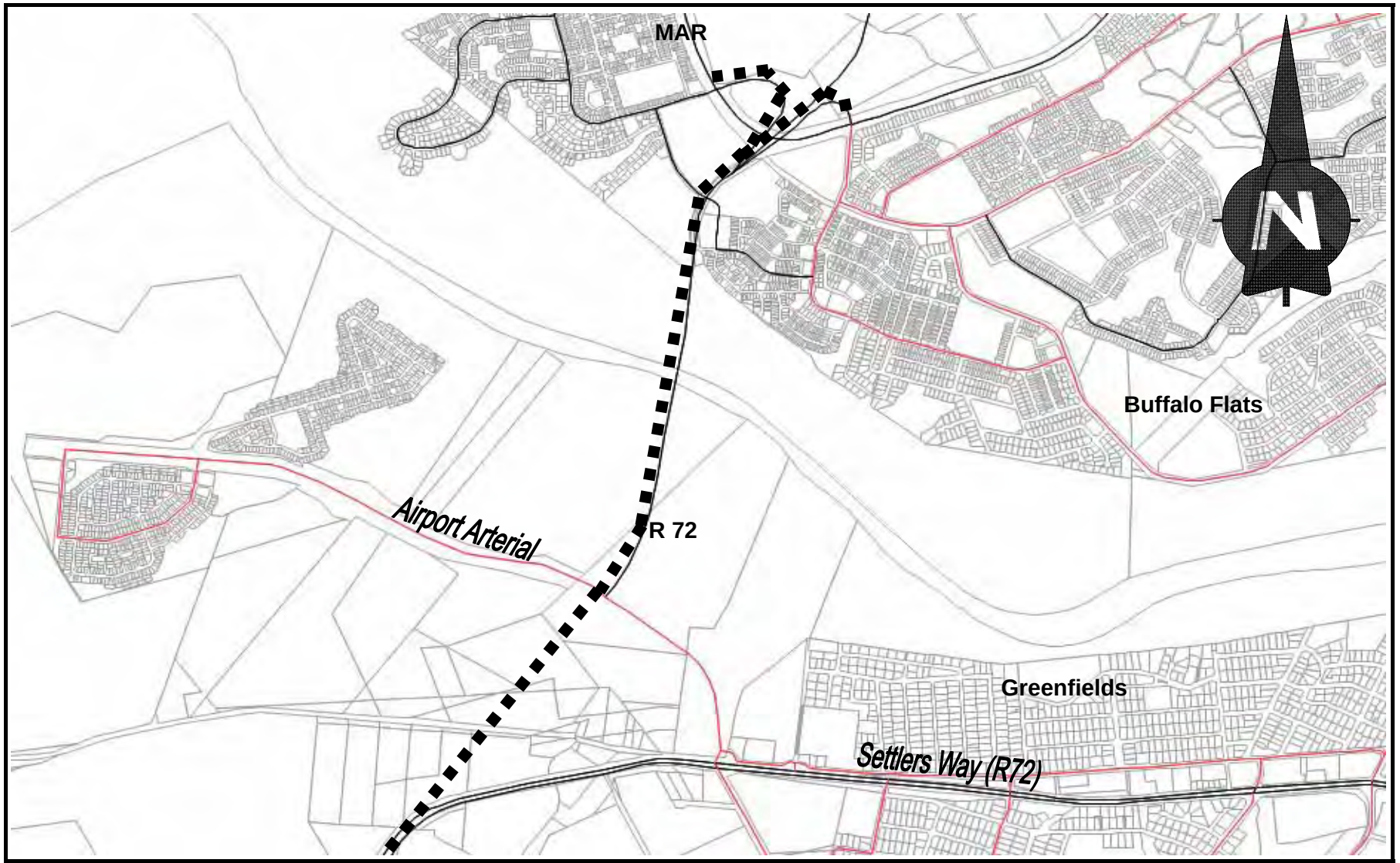
4. Project Description

The project will involve the design and construction of a two-lane carriageway with associated interchanges and a bridge structure between the Ziphunzana Bypass and the Airport Bypass.

The estimated cost as at September 2006 is R250.0m.

5. Project Classification

Road Project



Buffalo Crossing : R72 to MAR	RP EL 21

1. Title

Zwelitcha Road pedestrian facility

2. Problem Definition

Zwelicha is situated south of the King Williams Town CBD along the R346.
Low cost housing is constructed on both sides of the road to provide housing within close proximity to work opportunities in King Williams Town CBD and industrial area.

The R346 linking Zwelitcha and King Williams Town is a four lane facility with low volumes resulting in high operating speeds. No sidewalk is provided and a high pedestrian flow occur during peak commuter times along the route resulting in high conflict potential.

3. Data

Refer to the report on travel survey findings completed by SWECO 2004.

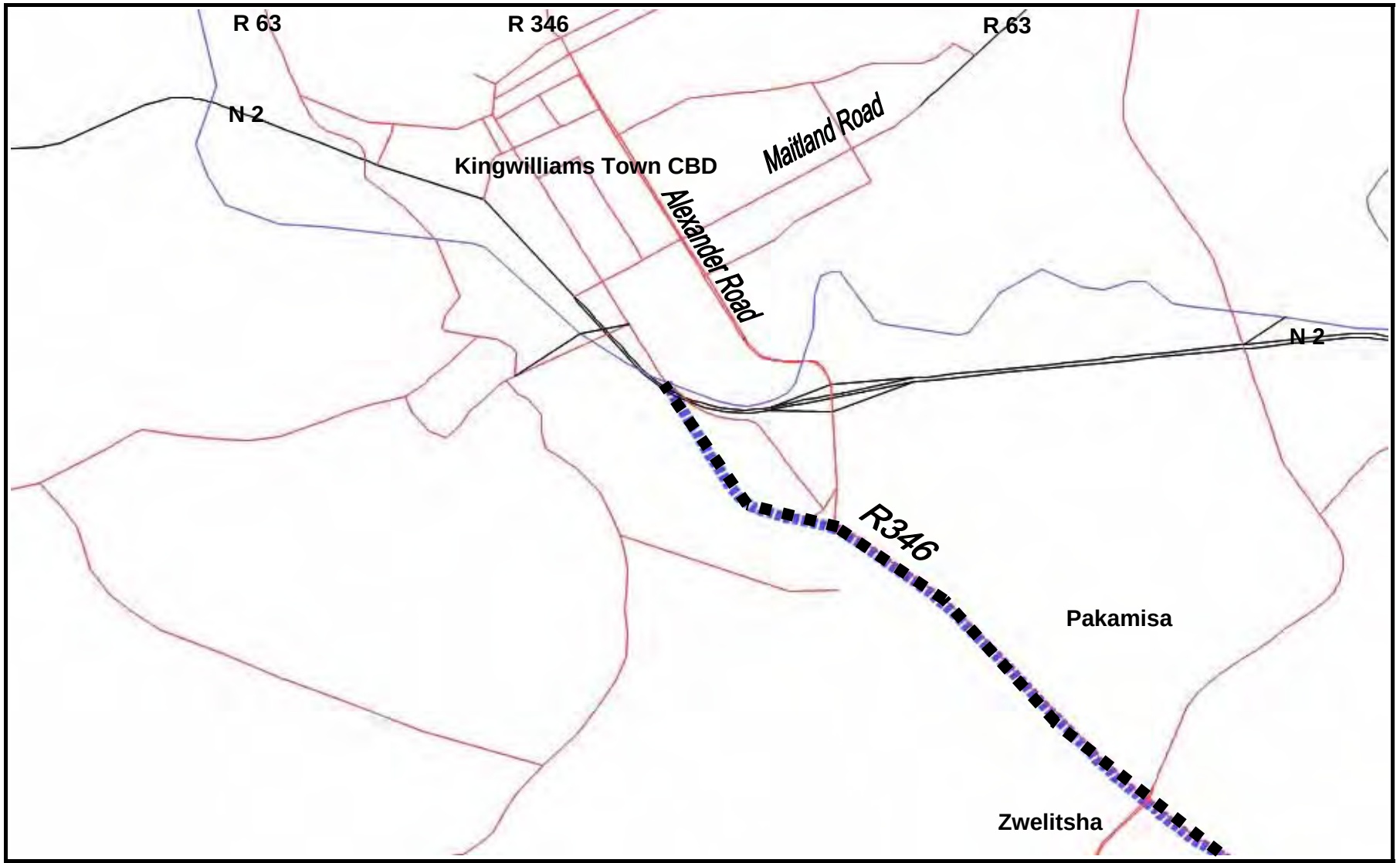
4. Project Description

The project will involve design and construction of pedestrian sidewalk along the route.

The estimated cost as at September 2006 is R2.0m.

5. Project Classification

TSM Project



Pedestrian & Cycle Facilities Along Zwelitsha Access Road	TSM KWT 01

1. Title

Mdantsane Access Road : Main Entrance to Woolwash Road

2. Problem Definition

Additional capacity will be required on this section of road to provide for future demand.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

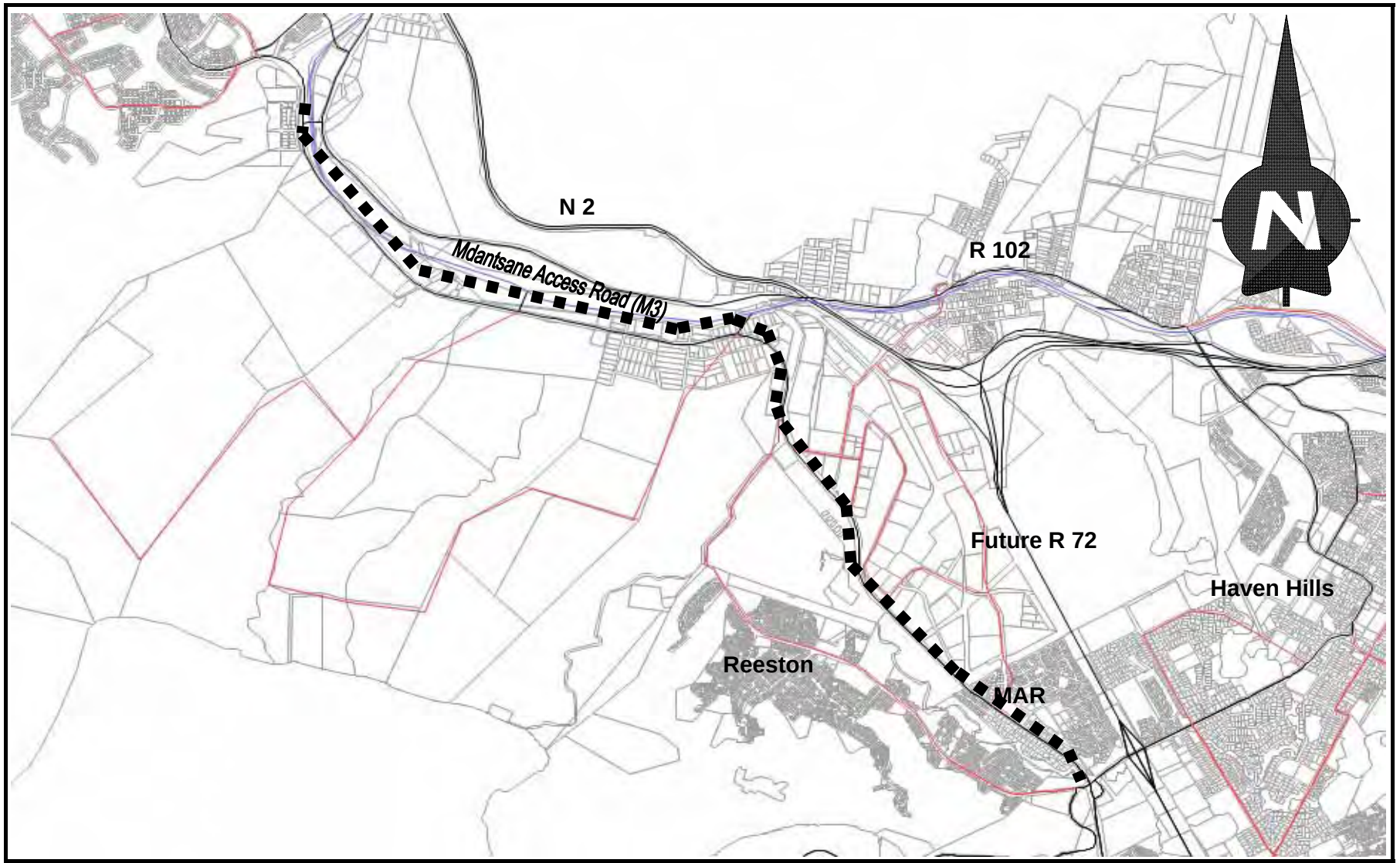
4. Project Description

The project will involve the design and construction of an additional two-lanes on this section of road.

The estimated cost as at September 2006 is R51.0m.

5. Project Classification

Road Project



MAR : Main Entrance to Woolwash Road	PROP 01

1. Title

Eastward extention of the Harbour Arterial Phase 1

2. Problem Definition

The development of the EL IDZ requires for a direct and dedicated link between the IDZ based industries and the Harbour and also existing and future industries situated to the east on the Westbank.

3. Data

Refer to the IDZ transportation Planning Document – Ninham Shand.

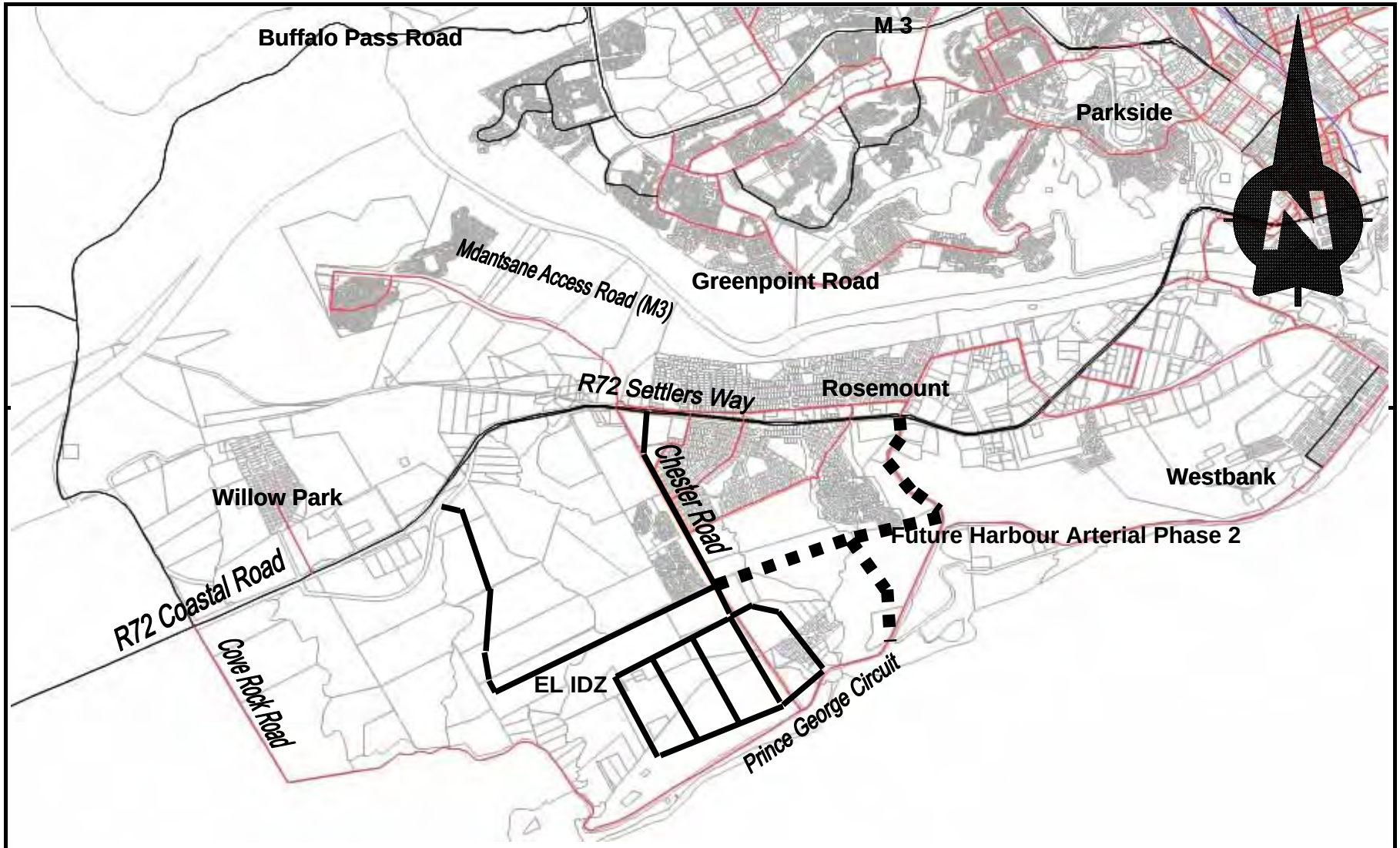
4. Project Description

The project will involve the design and construction of the eastward extention of the first carriageway of the Harbour Arterial from Chester Road in the west to Potters Pass including a link to Prince George Drive.

The estimated cost as at September 2006 is R24.0m.

5. Project Classification

Road Project



IDZ ROAD NETWORK : POTTERS PASS & HARBOUR ARTERIAL	RP EL 34

1. Title

Eastward extention of the Harbour Arterial Phase 2

2. Problem Definition

The development of the EL IDZ requires for a direct and dedicated link between the IDZ based industries and the Harbour and also existing and future industries situated to the east on the Westbank.

3. Data

Refer to the IDZ transportation Planning Document – Ninham Shand.

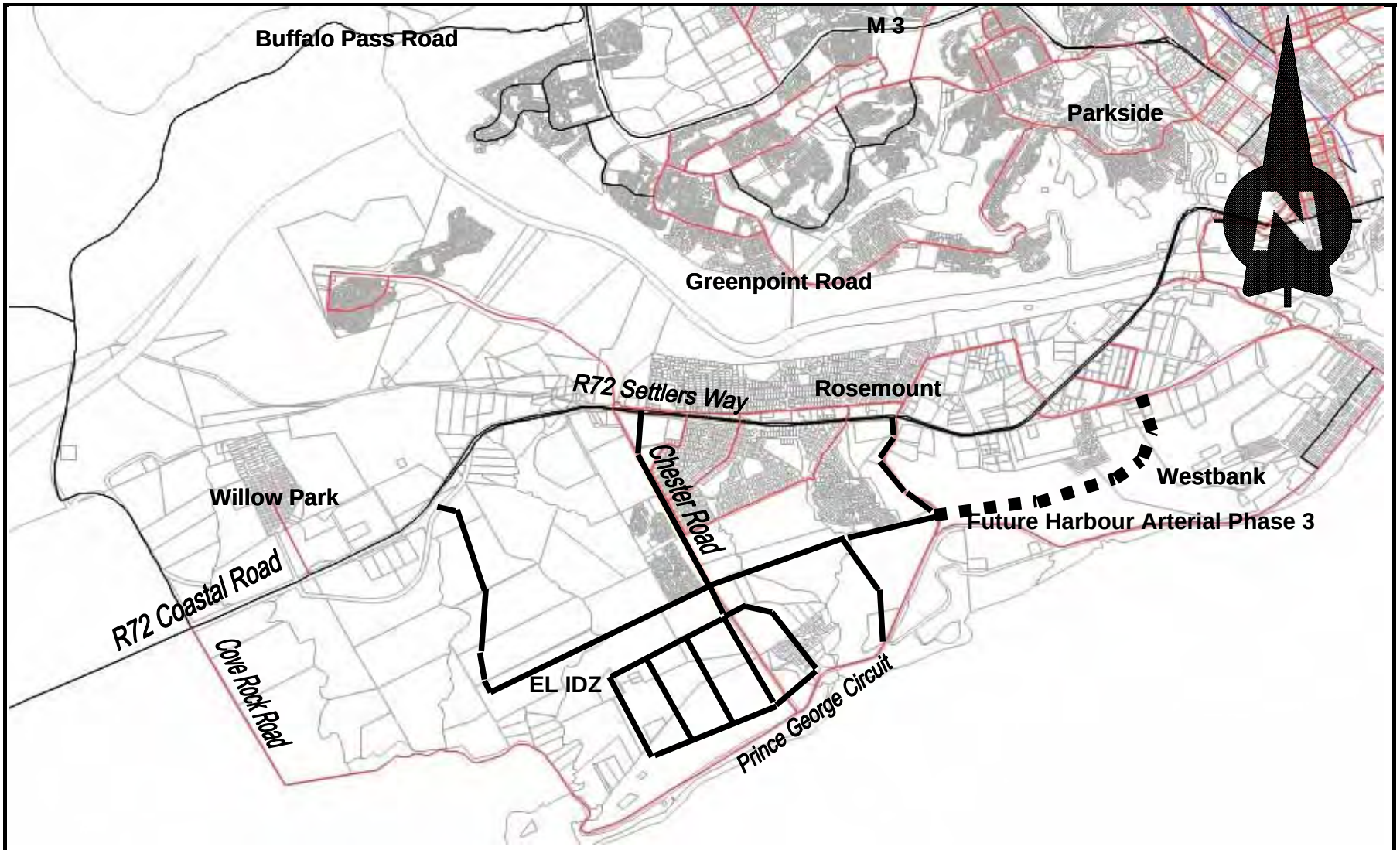
4. Project Description

The project will involve the design and construction of the remainder of the eastward extention of the first carriageway of the Harbour Arterial from terminal point of phase 1 in the west to Military Road.

The estimated cost as at September 2006 is R35.0m.

5. Project Classification

Road Project



IDZ ROAD NETWORK : HARBOUR ARTERIAL PHASE 3	RP EL 35

1. Title

Harbour Arterial Phase 3

2. Problem Definition

The development of the EL IDZ requires for a direct and dedicated link between the IDZ based industries and the Harbour and also existing and future industries situated to the east on the Westbank.

3. Data

Refer to the IDZ transportation Planning Document – Ninham Shand.

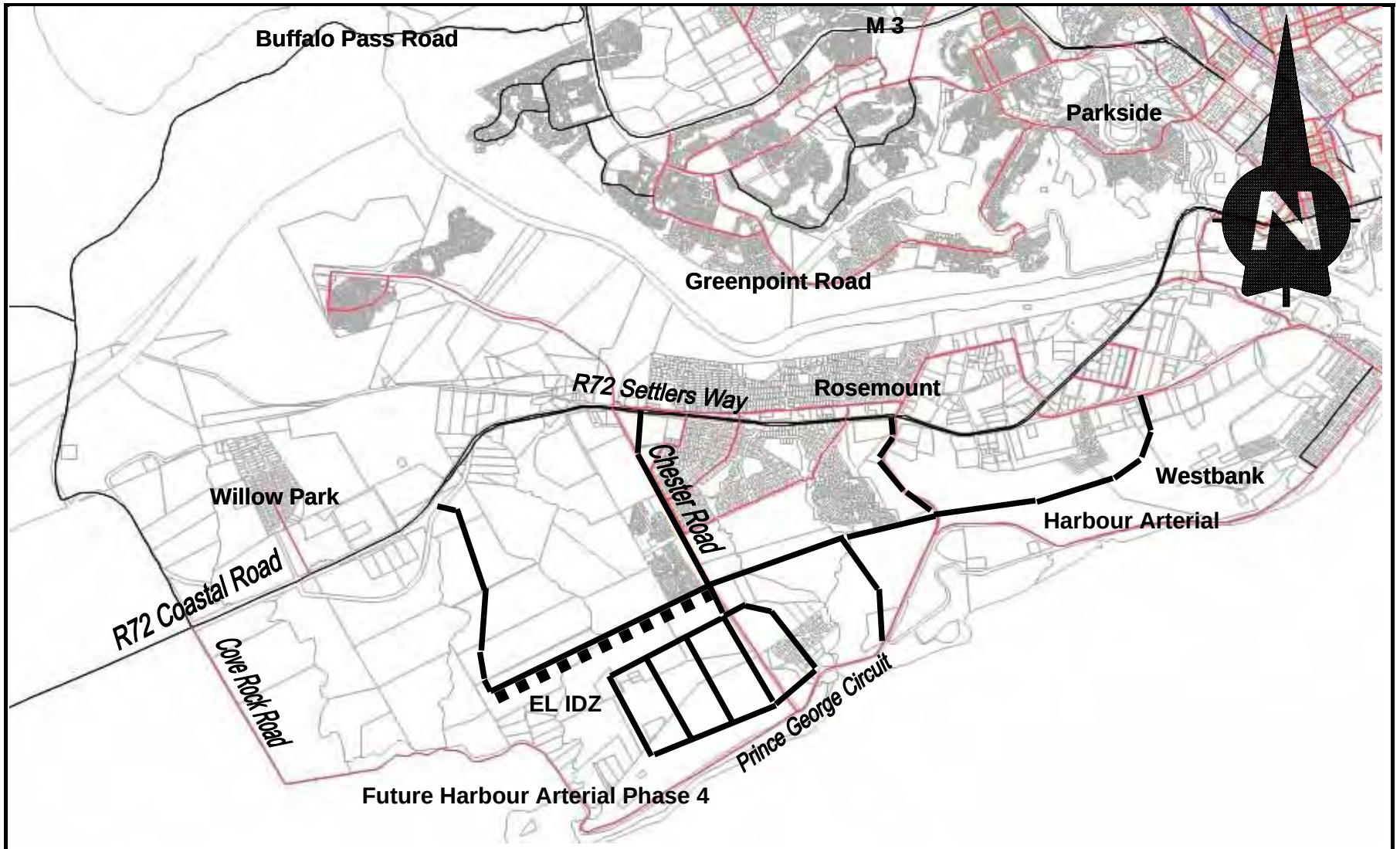
4. Project Description

The project will involve the design and construction of the second carriageway to the existing Harbour Arterial between the two traffic circles.

The estimated cost as at September 2006 is R15.0m.

5. Project Classification

Road Project



IDZ ROAD NETWORK : HARBOUR ARTERIAL 2nd CARRIAGEWAY	RP EL 36

1. Title

Breezyvale Link Road second carriageway

2. Problem Definition

The development of the IDZ would eventually require direct access routes between the Airport and zone 1B. Further more the Breezyvale link road will reduce the pressure expected at the Chester Road / Settlers Way intersection.

3. Data

Refer to the IDZ transportation Planning Document – Ninham Shand.

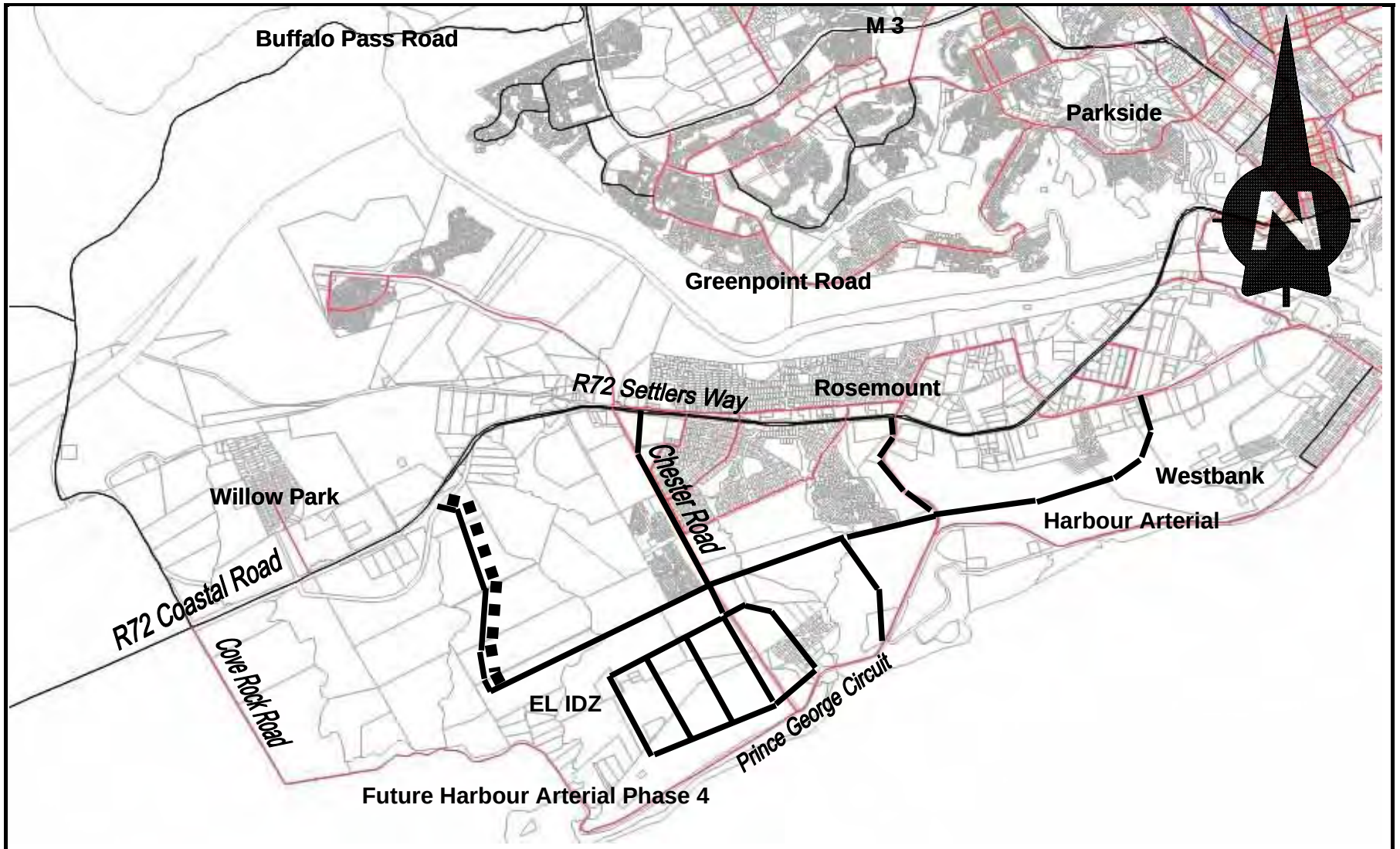
4. Project Description

The design and construction of the second carriageway for the Breezyvale Link Road (M18) between the R72 AND the entrance to Zone 1B, upgrading it to the planned final four-lane divided arterial.

The estimated cost as at September 2006 is R12.0m.

5. Project Classification

Road Project



IDZ ROAD NETWORK : BREEZYVALE ACCESS 2nd CARRIAGEWAY	RP EL 38

1. Title

Park Avenue Arterial : North East Expressway to Settlers Way

2. Problem Definition

A more desirable link is needed for traffic traveling from the north – eastern sector to the northern part of the CBD and West bank. The link will alleviate congestion on Fleet and Buffalo Streets in the CBD area.

3. Data

Refer to the report " Investigation into Alternatives for the Northern CBD Cross-town Link" for details.

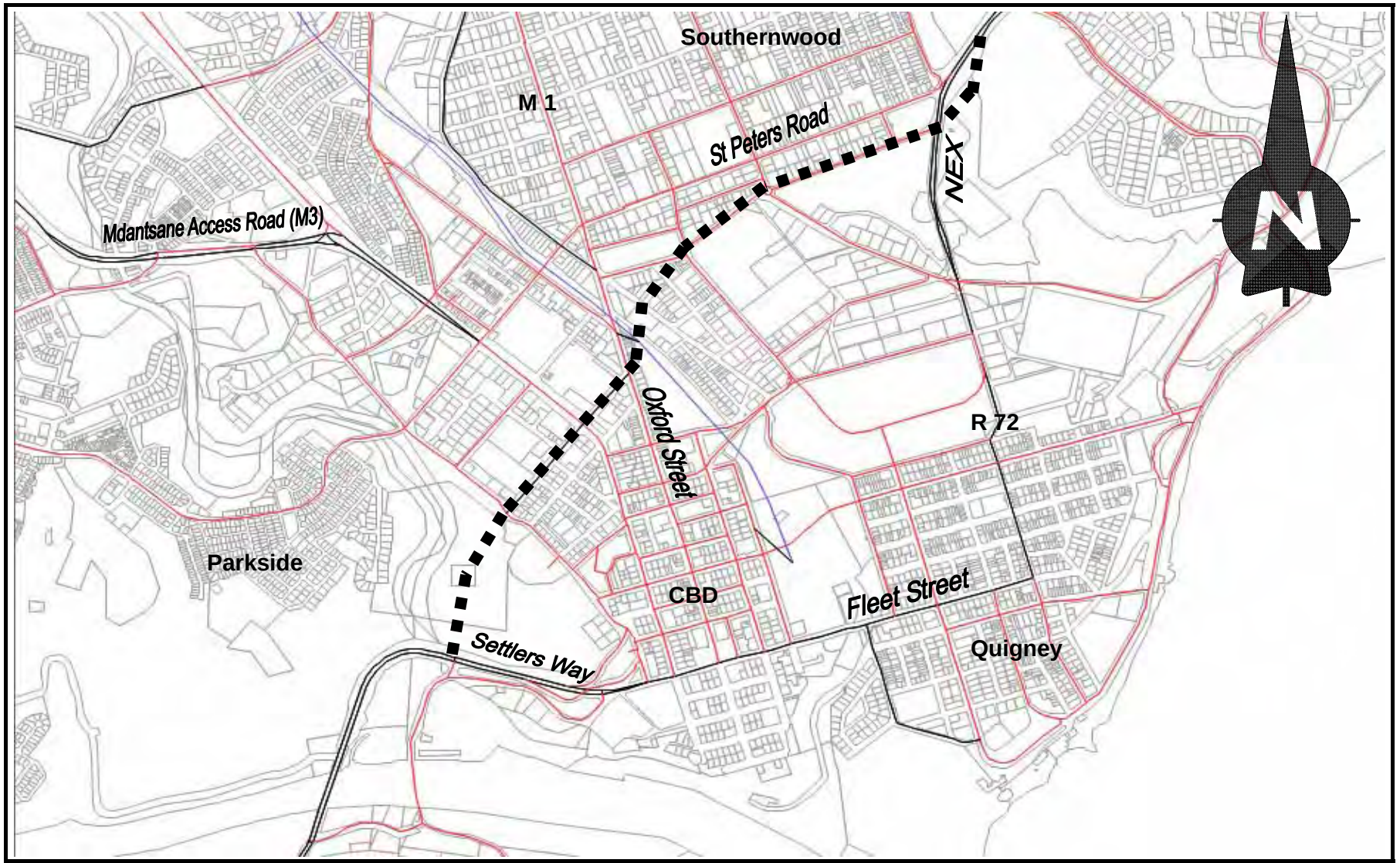
4. Project Description

The project will involve the design and construction of a route from the North East Expressway using portions of Lambart Road, Graham Road, Thorburn Terrace and the extension of Park Avenue through Queens Park to Settlers Way. This will include associated bridge structures.

The estimated cost as at September 2006 is R90.0m.

5. Project Classification

Road Project



Park Arterial : NEX to Settlers Way	RP EL 08

1. Title

Croydon Road Extension

2. Problem Definition

The principle objective is to join the northern and southern portions of Croydon Road, which will provide a direct link to the proposed NWX route to the CBD.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

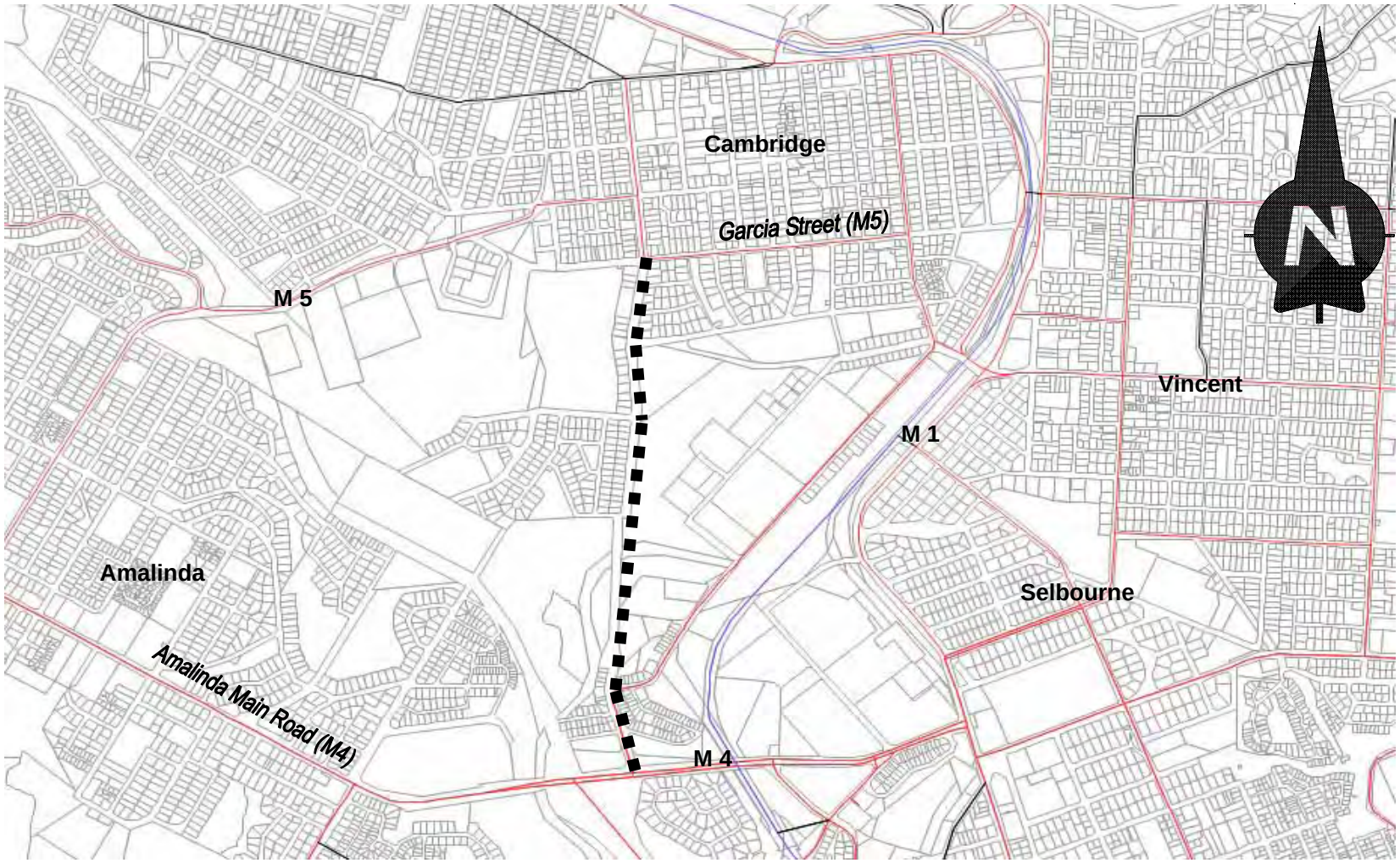
4. Project Description

The project will involve the design and construction of a two lane carriageway between the existing portions of Croydon Road.

The estimated cost as at September 2006 is R8.0m.

5. Project Classification

Road Project



Croyden Road Link	RP EL 05

1. Title

Windermere Road Upgrade

2. Problem Definition

The upgrading of this route is required to provide an east – west distributor arterial through the Cambridge area linking Amalinda near Woolwash Road with Western Avenue at Devereux Avenue.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

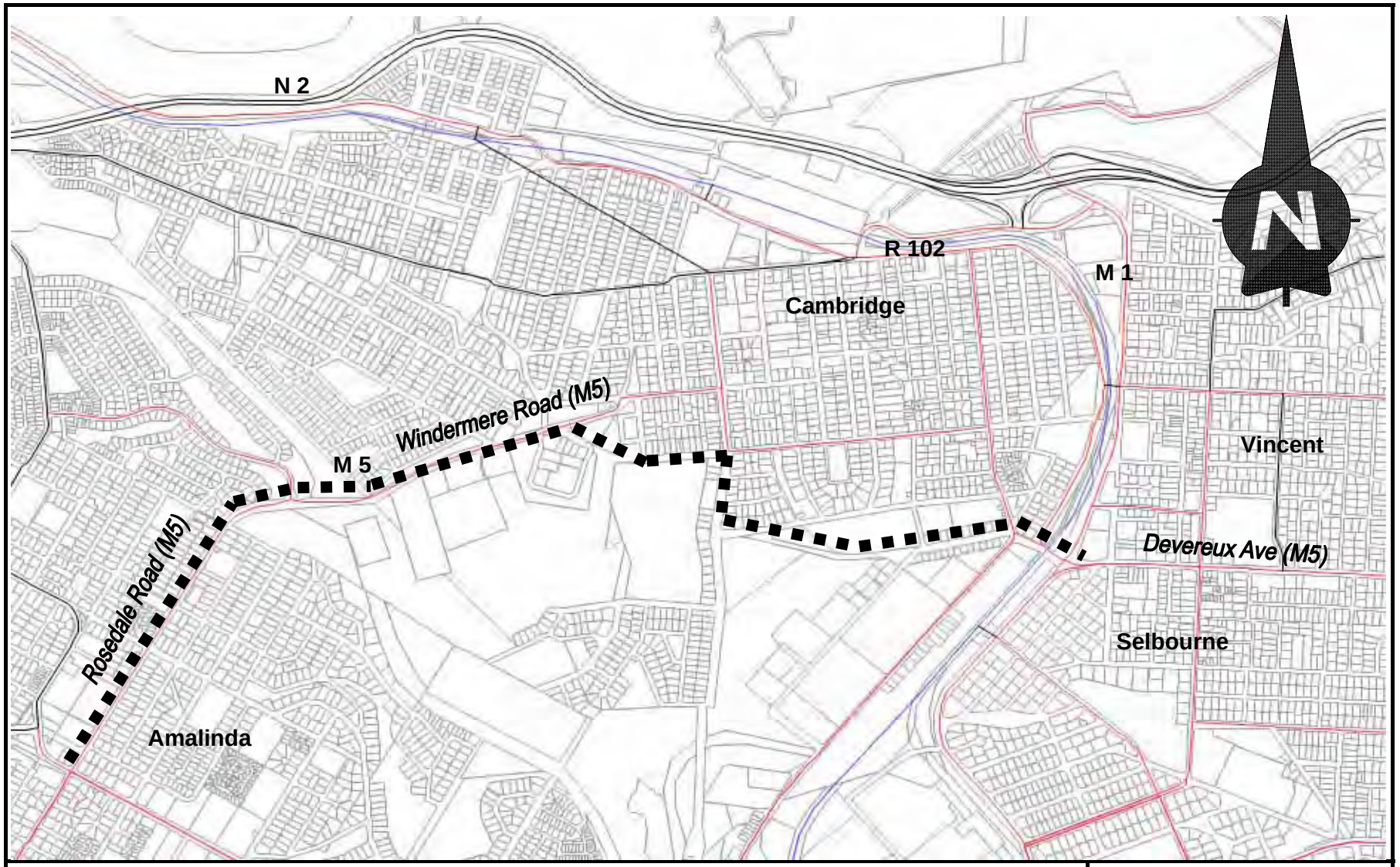
4. Project Description

The project will involve the design and construction of an additional two lanes between Woolwash Road and the proposed North West Expressway route.

The estimated cost as at September 2006 is R20.0m.

5. Project Classification

Road Project



Windermere Road Upgrade	RP EL 17

1. Title

Mdantsane Access Road : Woolwash Road and Douglas Smith Highway

2. Problem Definition

Additional capacity will be required on this section of road to provide for future demand particularly if the new Buffalo River crossing is constructed.

3. Data

Refer to the “Draft Arterial Roads Plan: 1995-2015: for future traffic data relevant to this project.

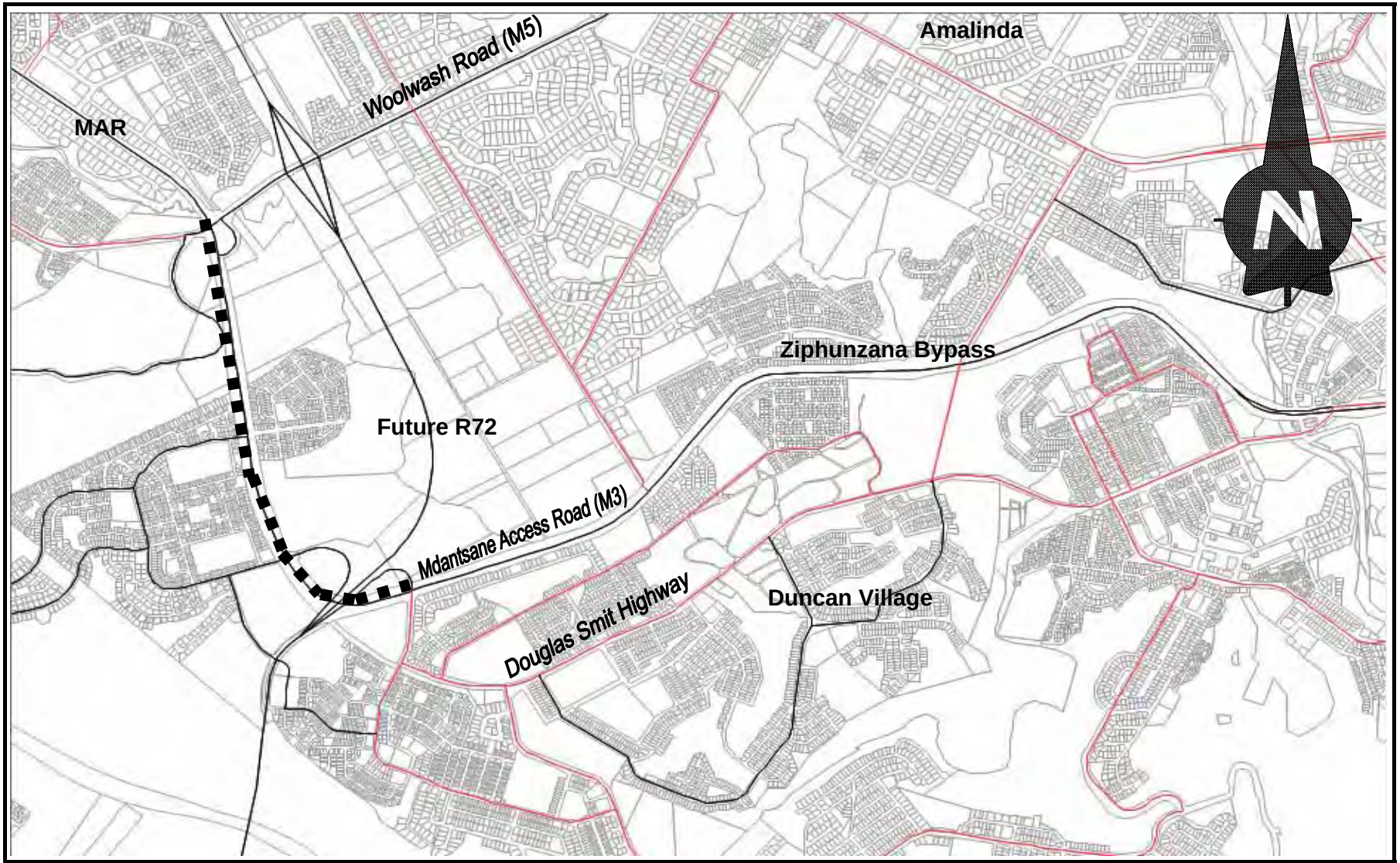
4. Project Description

The project will involve the design and construction of an additional two lanes on this section of road.

The estimated cost as at September 2006 is R30.0m.

5. Project Classification

Road Project



MAR : Woolwash Road to Douglas Smit Highway	PROP 03

1. Title

New Interchange on the N2 at Billie Road

2. Problem Definition

There is currently a lack of access opportunities from the areas of Mdantsane and Newlands to the higher order road structure. An interchange at Billie Road will provide these access opportunities and open the adjacent area for development particularly Mount Ruth Station.

3. Data

Refer to the “MELD Corridor Report” for details relevant to this project.

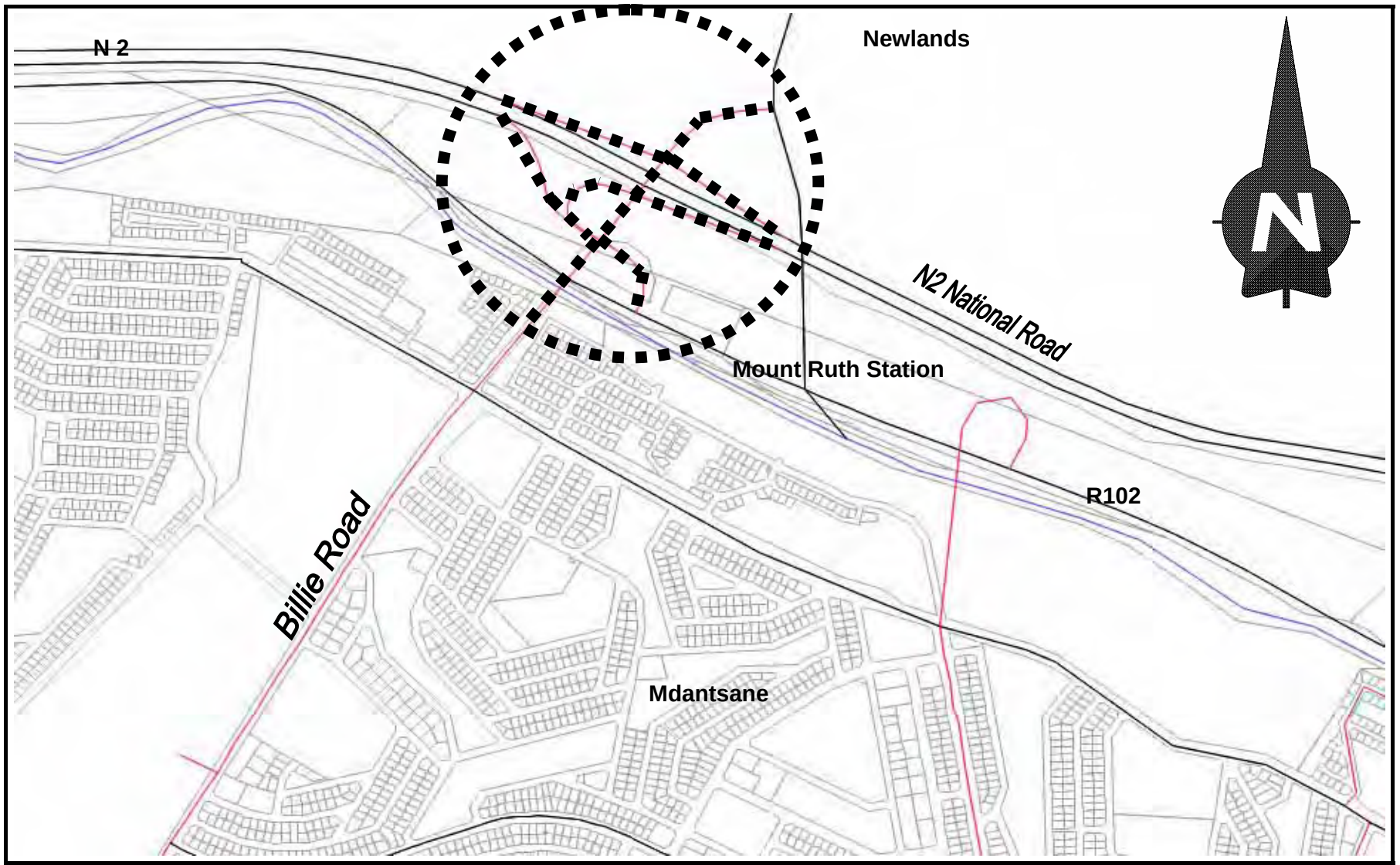
4. Project Description

The project will involve the design and construction of the extension of Billie Road to Newlands Road and the construction of ramps to the N2 to form an interchange of Billie Road with the n2. As part of this scheme, the intersection of Qumza Highway should be re-aligned opposite Jiba Road.

The estimated cost as at September 2006 is R30.0m.

5. Project Classification

Road Project



Billie Road / N2 Interchange	RP MD 08

1. Title

Nahoon Interchange Link Road

2. Problem Definition

There is currently a lack of access opportunities from the Mdantsane to the higher order road structure. A new link road from the Nahoon Interchange will provide these access opportunities and open the adjacent areas for development.

3. Data

Refer to the “MELD Corridor Report” for details relevant to this project.

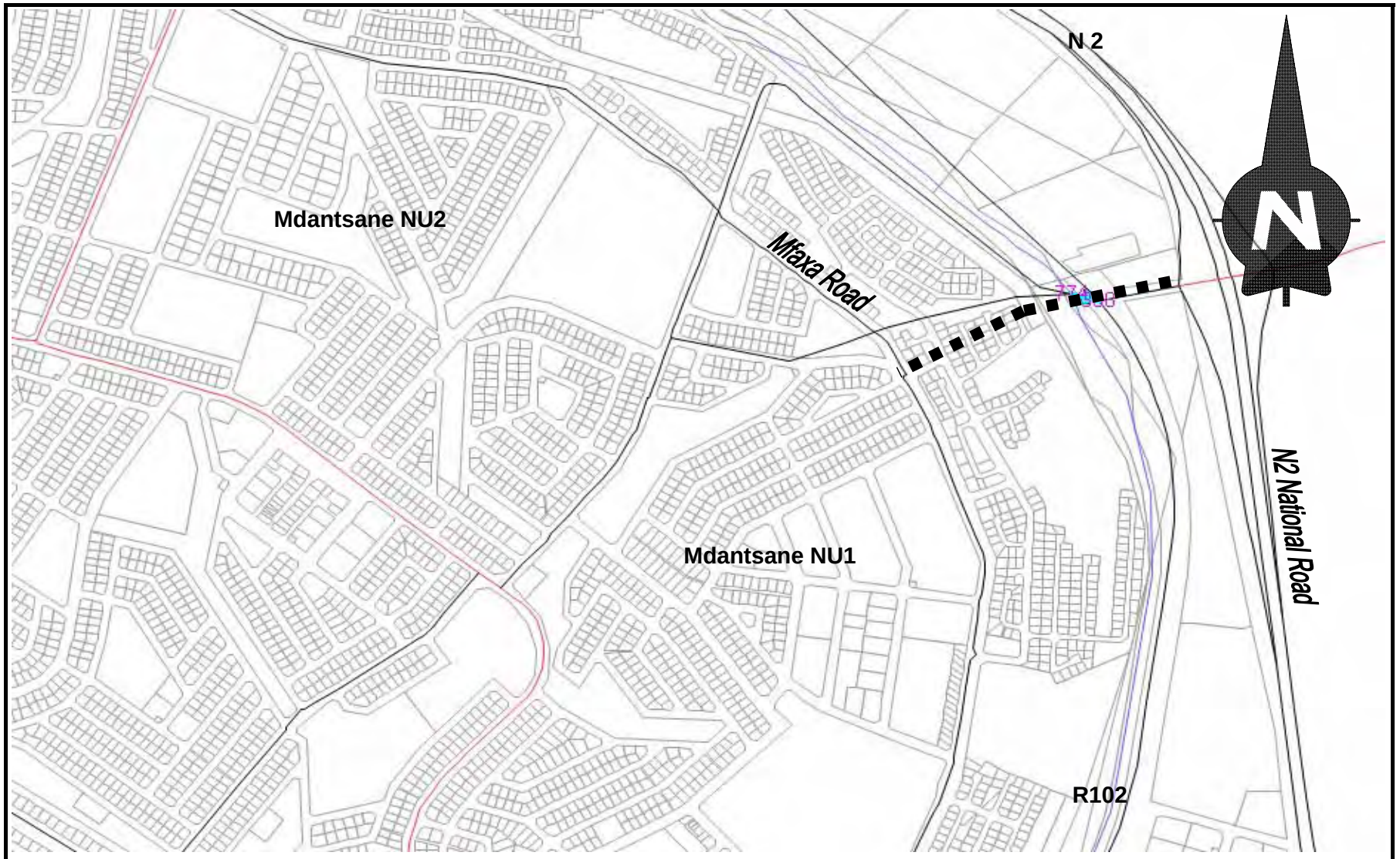
4. Project Description

The project will involve the design and construction of some internal link roads and a rail bridge adjacent to Nahoon Interchange.

The estimated cost as at September 2006 is R20.0m.

5. Project Classification

Road Project



Mdantsane / N2 Interchange	RP MD 07

1. Title

Mdantsane : Northern Perimeter Road

2. Problem Definition

An arterial distributor needs to be established linking Billie Road with Qumza Highway by develop a continuous router parallel to and south of the railway line. This route should connect railway stations and enable bus services to feed the stations more efficiently.

3. Data

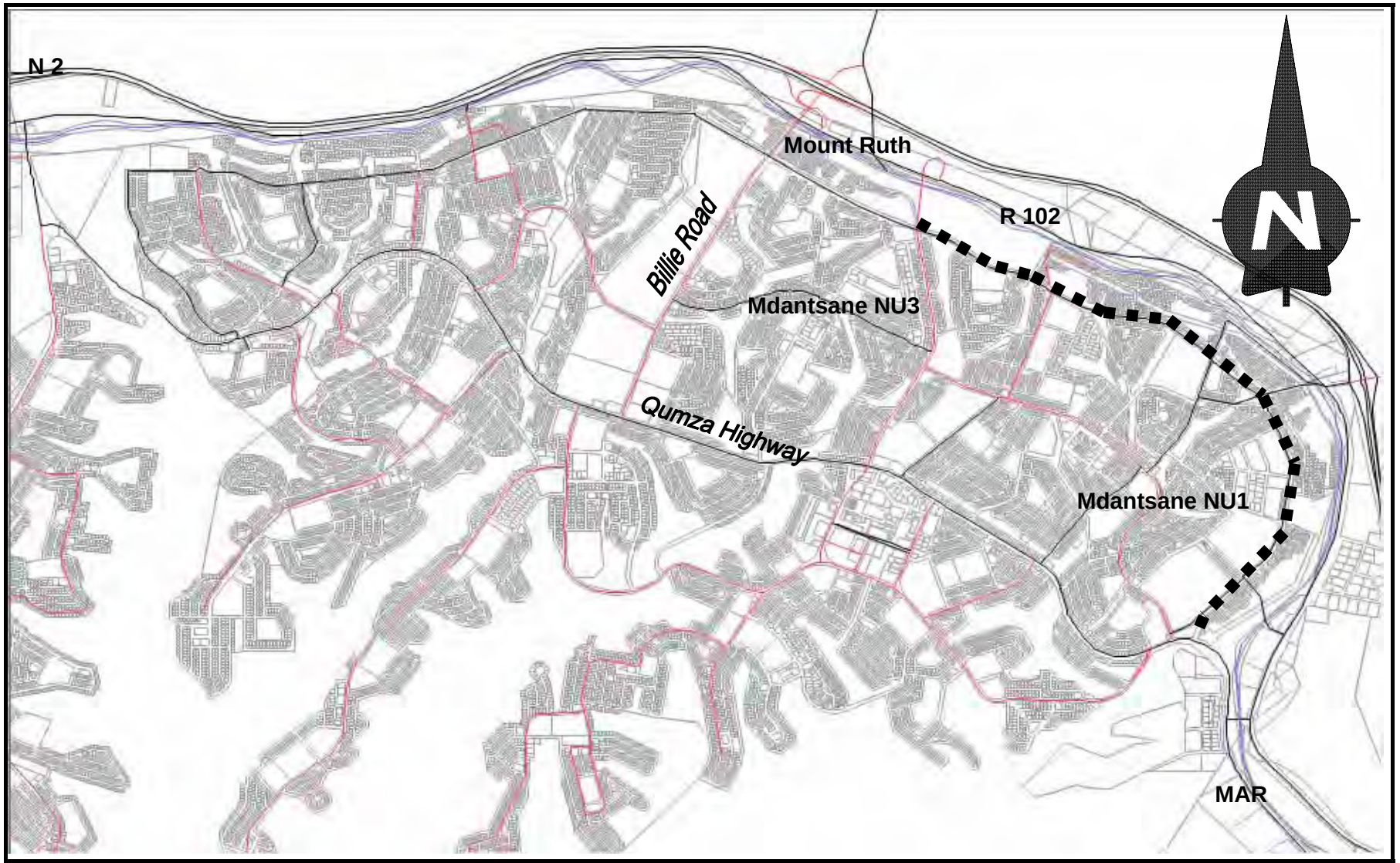
Refer to the “MELD Corridor Report” for details relevant to this project.

4. Project Description

The estimated cost as at September 2006 is R50.0m.

5. Project Classification

Road Project



Mdantsane Perimeter Road	PROP 04

1. Title

King Williams Town bypass

2. Problem Definition

The current bypass route for the N2 through King Williams Town is aligned through the town and through traffic impact on Alexandra, Maitland and Buffalo Streets.

The SDF identified the need for a N2 bypass around King Williams Town and the VISUM analysis confirm that a bypass to the west of King Williams Town may become a requirement by 2020 and should be implemented in the period 2015 - 2020.

3. Data

Refer to the SDF and VISUM modeling report for details.

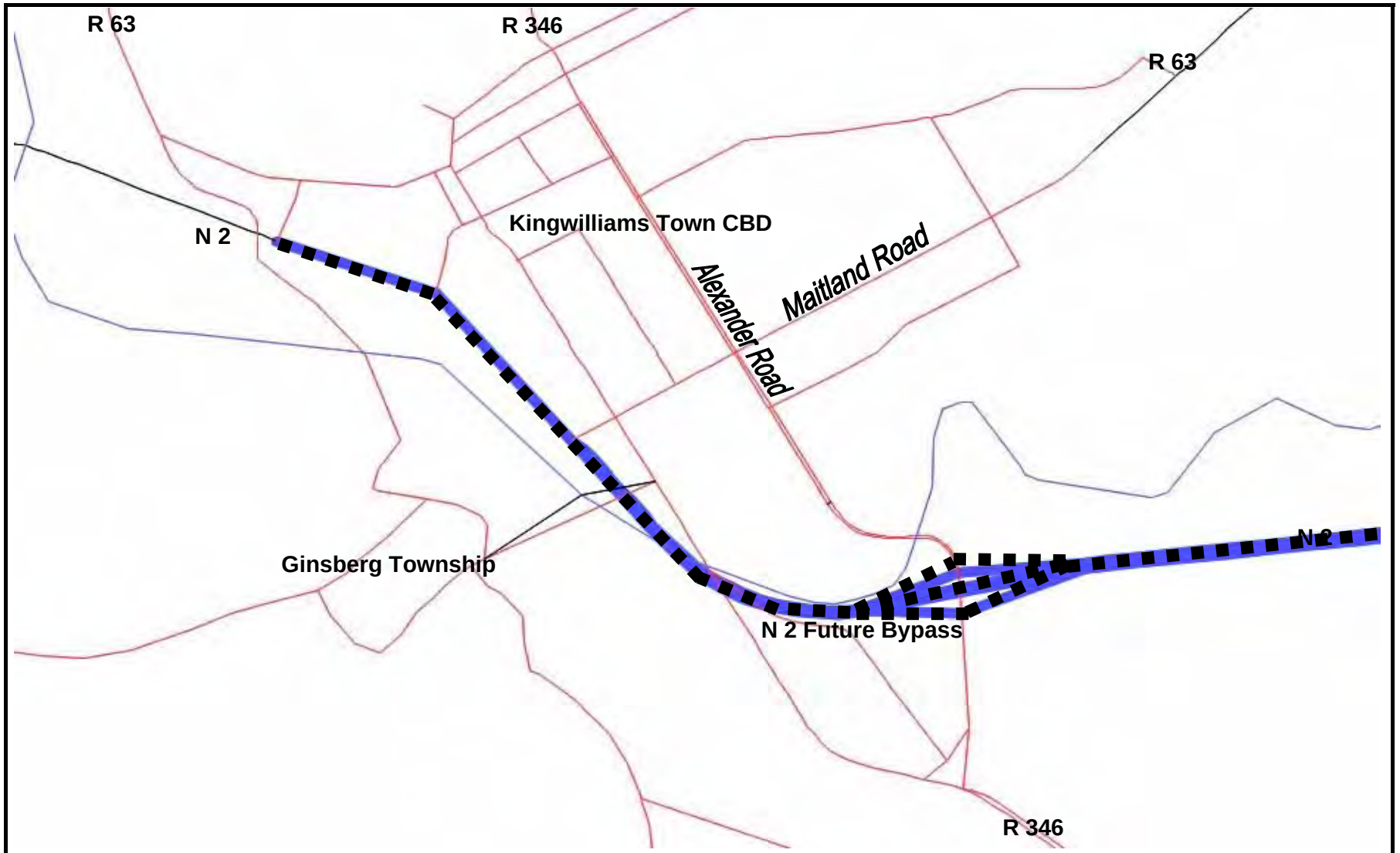
4. Project Description

The project will involve the design and construction of a two-lane carriageway to a national road standard with associated interchange and a bridge structure across the Buffalo River to the west of King Williams Town between the N2 east of the KWT CBD and the N2 west of the CBD of King Williams Town.

The estimated cost as at September 2006 is R80.0m.

5. Project Classification

Road Project



King Williams Town N2 By-Pass	RP KWT 01

1. Title

Buffalo River Crossing : N2 to Ziphunzana Bypass

2. Problem Definition

The need for an additional road bridge over the Buffalo River has been identified for a number of reasons. A new crossing will reduce travel time between the eastern areas and the West bank, create a diversion for traffic traveling through the CBD and potentially enhance growth and development on the West Bank.

3. Data

Refer to the report “Proposed Buffalo River Bridge and Arterial Road Link between the N2 and R72 – Feasibility Study: PART C” for details.

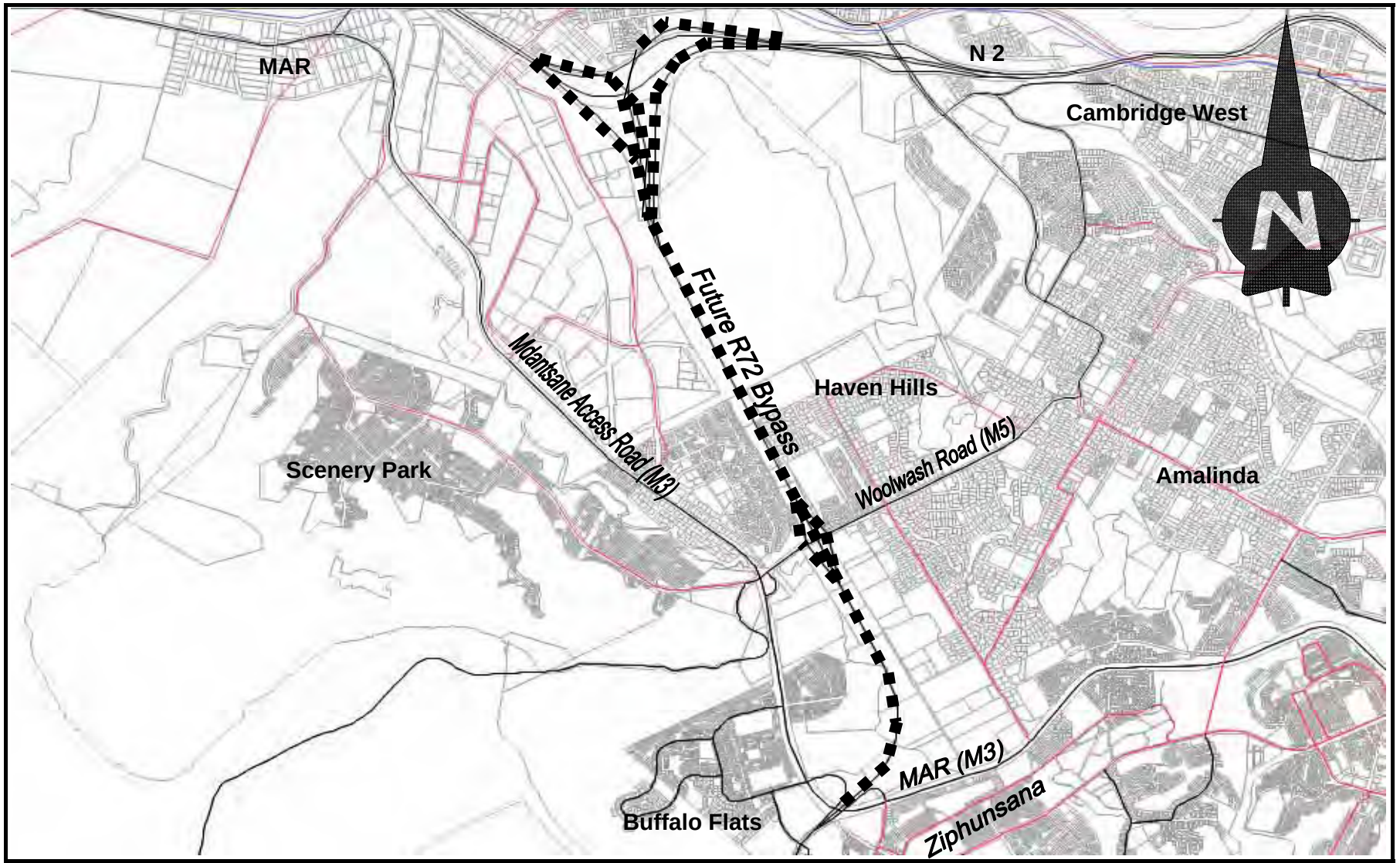
4. Project Description

The project will involve the design and construction of a two lane carriageway with associated interchanges between the N2 and the Ziphunzana Bypass.

The estimated cost as at September 2006 is R125.0m.

5. Project Classification

Road Project



Buffalo River Crossing : N2 to MAR	RP EL 25

1. Title

Western Avenue / N2 Interchange upgrade

2. Problem Definition

A large area is open for development to the north of the N2 and east of the SATS goods sheds on the hills overlooking Nahoon Valley. This area can only be accessed from the south via the Western Avenue link over the N2 or from the north via Two Rivers Drive. Current development pressure in the Hemingways area may lead to further growth and development on this land that would saturate the available network capacity and impact heavily on the northern limits of the M1 (Western Avenue).

3. Data

Refer to the SDF and VISUM modelling report for details.

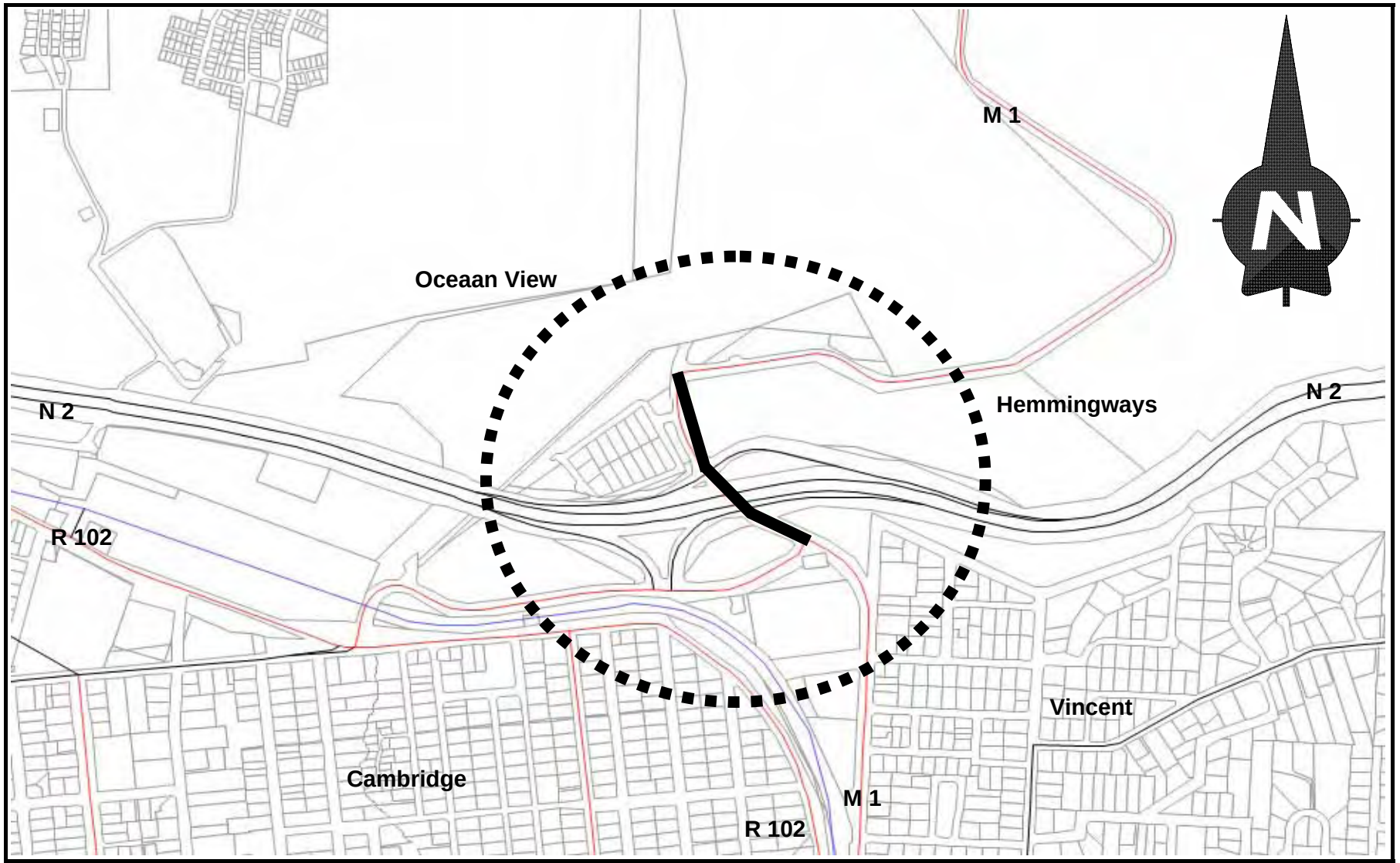
4. Project Description

The project will involve the design and construction of the widening of the interchange bridge over the N2 to accommodate four lanes plus a dedicated turn lane.

The estimated cost as at September 2006 is R20.0m.

5. Project Classification

Road Project



Western Avenue / N2 Interchange overpass add lane	RP EL 28

1. Title

Kings Way Rail underpass widening

2. Problem Definition

Under current traffic load conditions this link is a bottleneck in the arterial road network. With the implementation of the Windermere Road upgrade project this bottleneck will become worse resulting in very poor V/C ratios and excessive delay during peak commuter times.

Insufficient space is available for the current pedestrian demand to safely pass through the underpass.

3. Data

Refer to the ITP and VISUM modelling report for details.

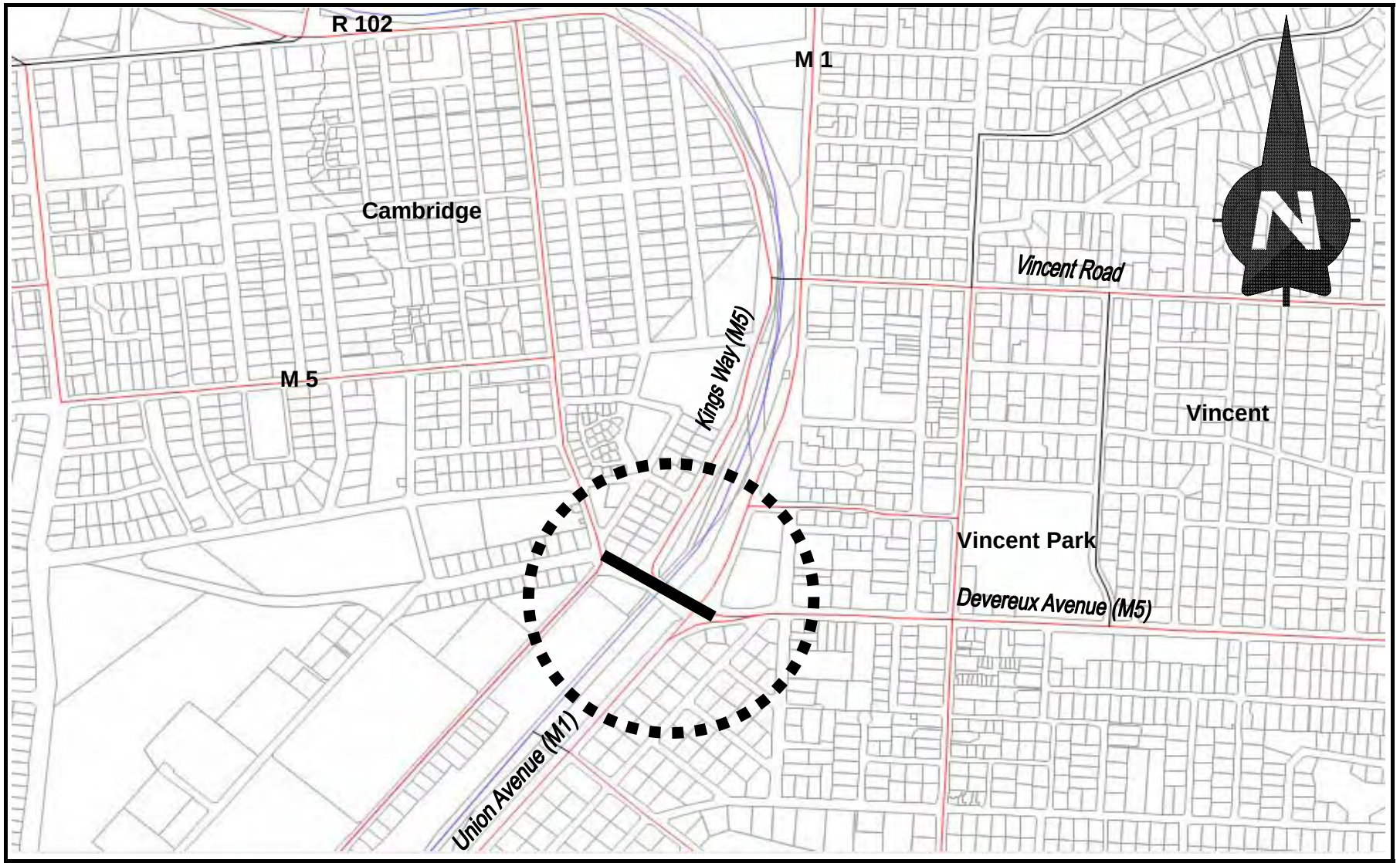
4. Project Description

The project will involve the design and construction of the widening of the Rail underpass west of the Devereux Avenue / Union Avenue intersection to accommodate four lanes and sidewalk on both sides of the road pavement.

The estimated cost as at September 2006 is R15.0m.

5. Project Classification

Road Project



Kings Way Rail Underpass Upgrade	RP EL 29

1. Title

MAR R102 Rail overpass widening

2. Problem Definition

In terms of the SDF with the planned development of the Arnoldton node and current development of the Reeston phase 3 consisting of 6000 residential low cost housing sites, the capacity of the link road between the Mdantsane Access Road and the R102 will be insufficient to provide for traffic demand in the 2020 year.

3. Data

Refer to the SDF and VISUM modelling report for details.

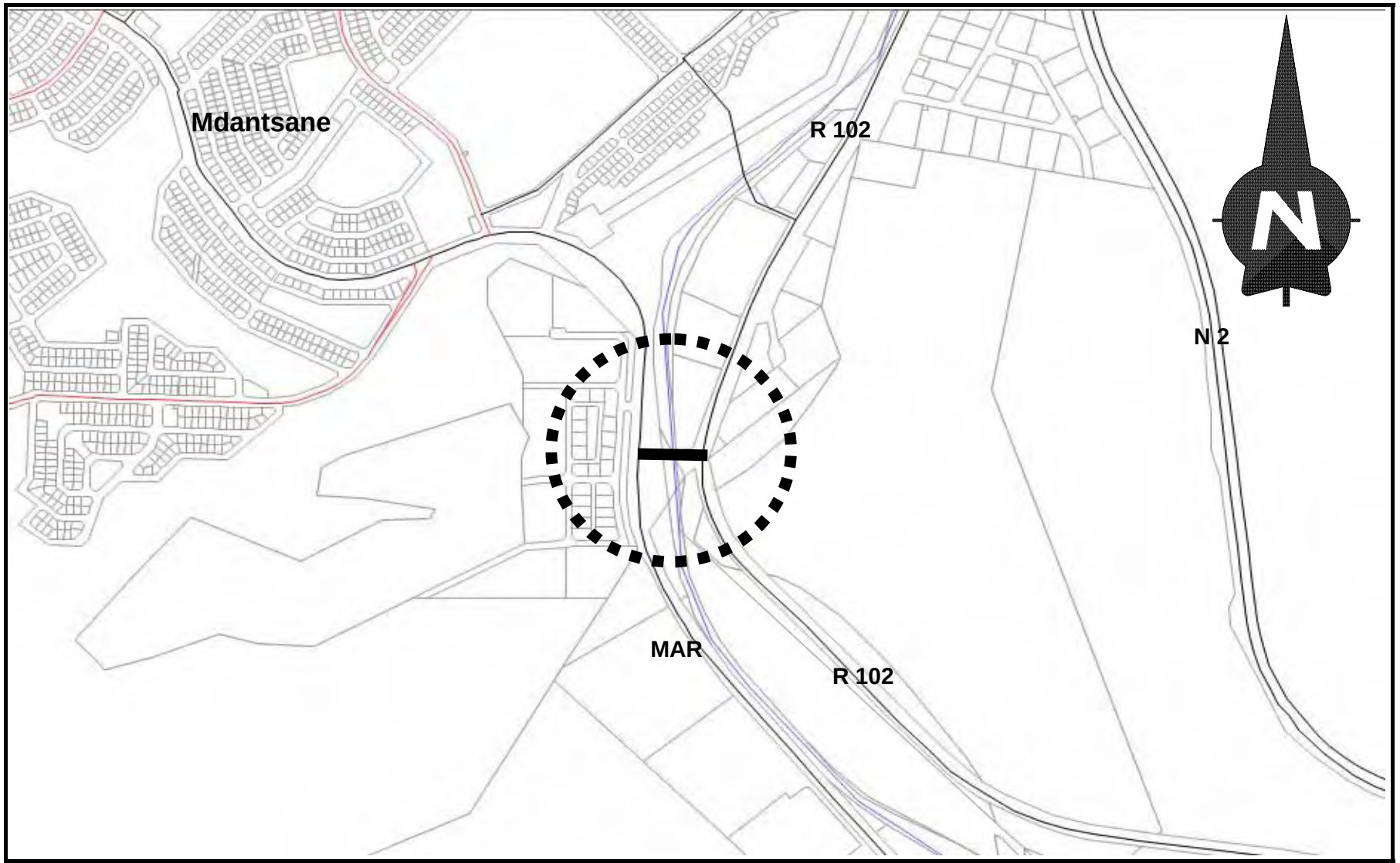
4. Project Description

The project will involve the design and construction of the widening of the road over rail bridge and associated intersection improvements to accommodate four lanes of traffic.

The estimated cost as at September 2006 is R15.0m.

5. Project Classification

Road Project



Qumza-R102 Link Over Rail Upgrade	RP MD 09

1. Title

Voortrekker Road upgrade

2. Problem Definition

In terms of the SDF with the planned development of the Arnoldton node the capacity of Voortrekker road will be insufficient to provide for traffic demand in the 2020 year. The road would require additional lanes to the west of the Amalinda /N2 interchange.

It is proposed that Voortrekker Road be upgraded to a four lane facility between Amalinda Main Road and Bert Kipling Street.

3. Data

Refer to the SDF and VISUM modelling report for details.

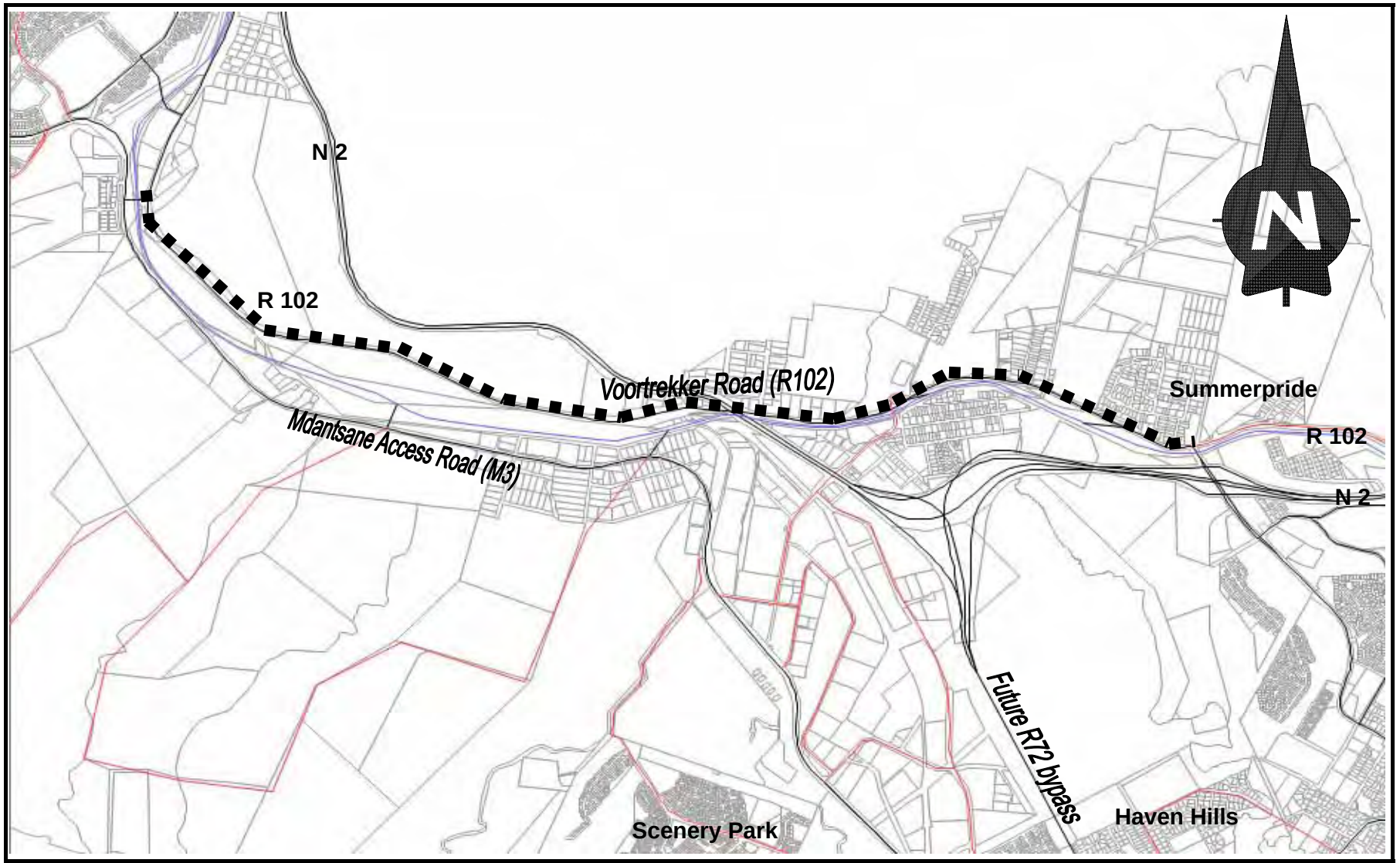
4. Project Description

The project will involve the design and construction of the widening of Voortrekker Road between Amalinda Main Road and Bert Kipling Street to accommodate four lanes of traffic.

The estimated cost as at September 2006 is R30.0m.

5. Project Classification

Road Project



Voortrekker Road Upgrade	RP EL 30

1. Title

Amalinda Main / N2 East bound ramps widening

2. Problem Definition

In terms of the SDF with the planned development of the Arnoldton node the capacity of the N2 east bound ramp will be insufficient to provide for traffic demand in the 2020 year. The ramp would require an additional lane onto the N2 eastbound freeway.

3. Data

Refer to the SDF and VISUM modelling report for details.

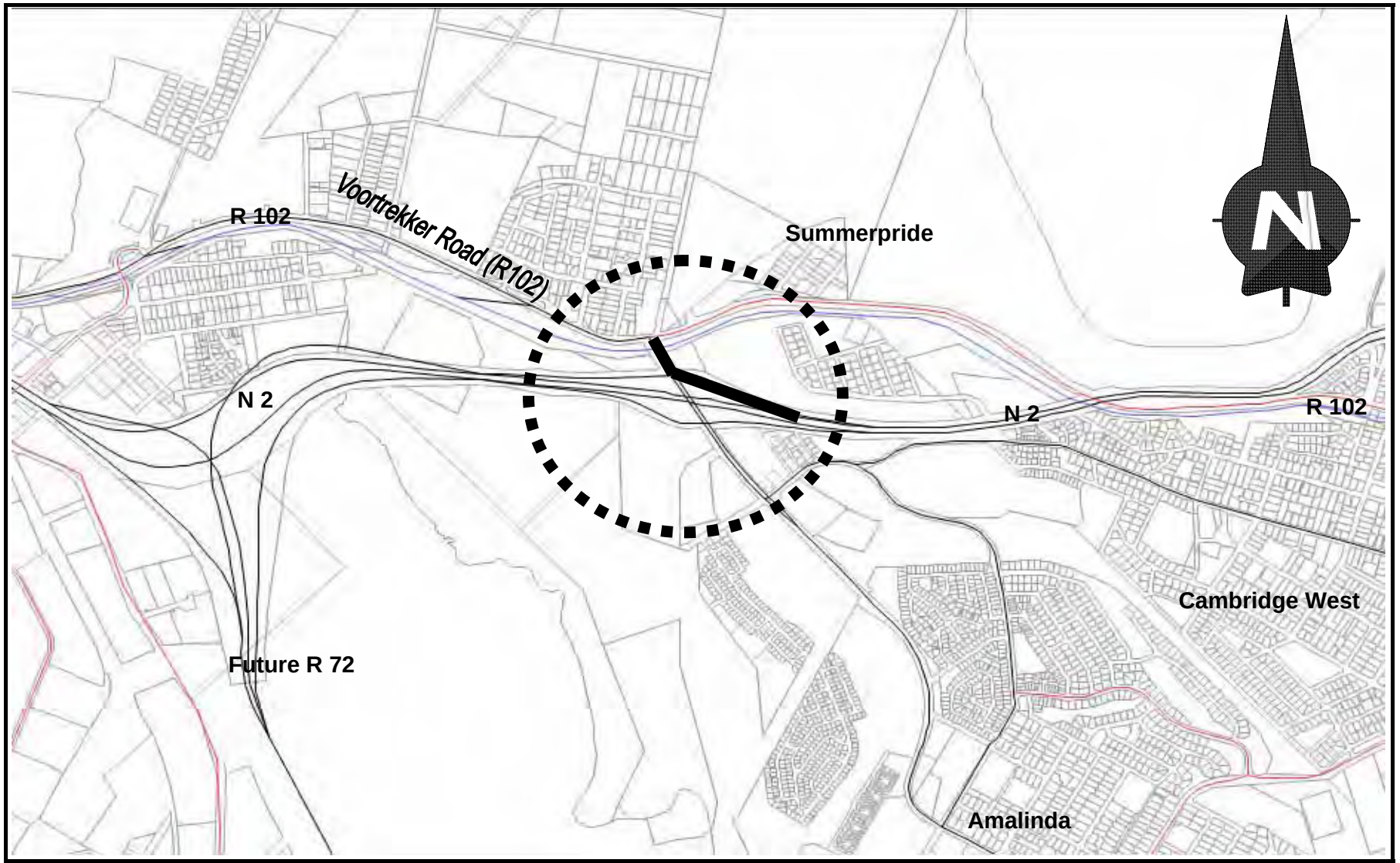
4. Project Description

The project will involve the design and construction of the widening of the east bound onramp at the Amalinda Main Road / N2 interchange.

The estimated cost as at September 2006 is R15.0m.

5. Project Classification

Road Project



Amalinda Main Road / N2 Interchange EB on ramp upgrade	RP EL 31

1. Title

Westward extention of the Harbour Arterial to Cove Rock/R72, first carriageway

2. Problem Definition

The development of the EL IDZ requires for a direct and dedicated link between the IDZ based industries and future growth areas axpected toward the west as part of the Westbank structure plan.

3. Data

Refer to the IDZ transportation Planning Document – Ninham Shand.

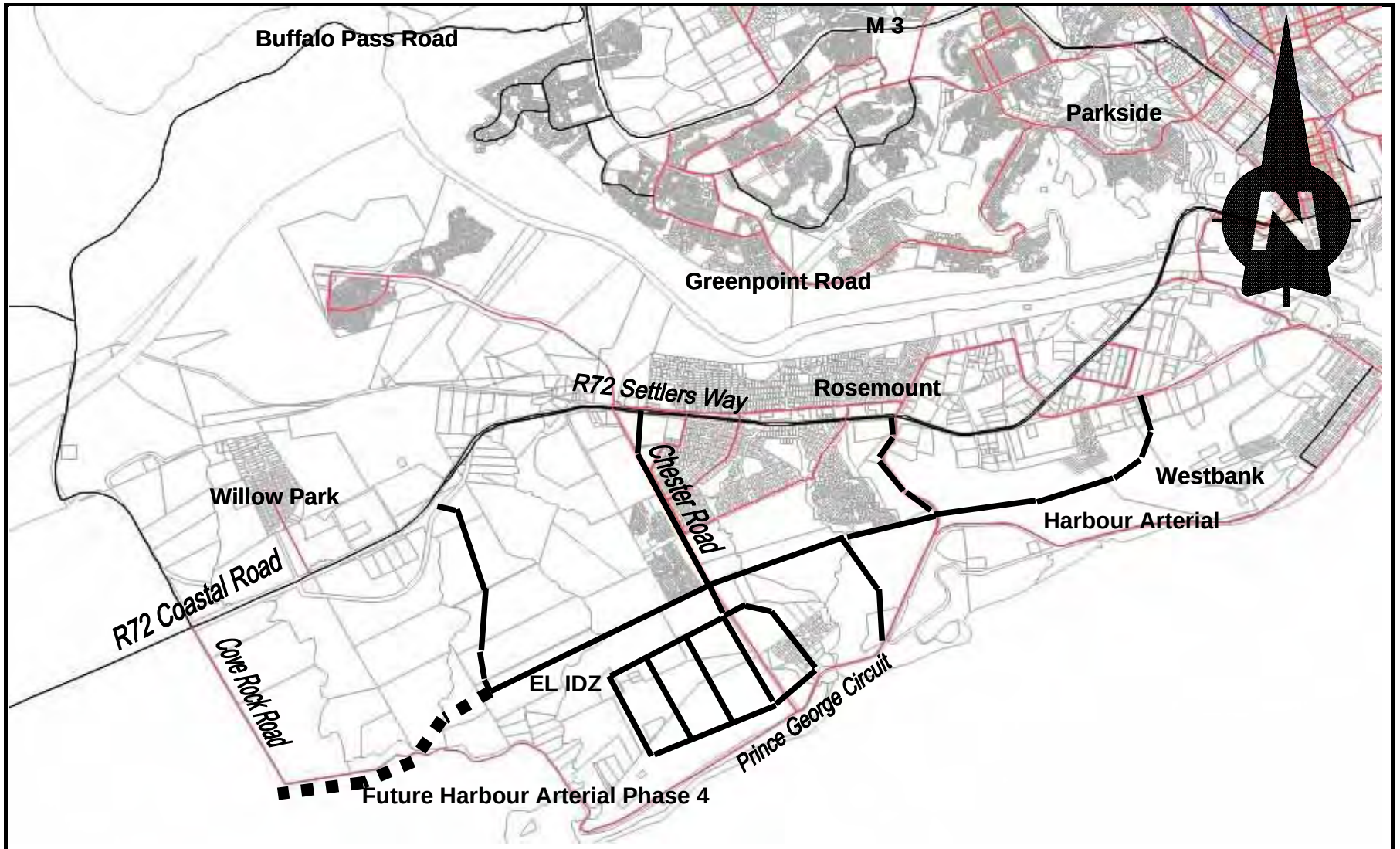
4. Project Description

The project will involve the design and construction of the first carriageway of the west extension of the Harbour Arterial from the existing section to the Cove Rock Road.

The estimated cost as at September 2006 is R35.0m.

5. Project Classification

Road Project



IDZ ROAD NETWORK : HARBOUR ARTERIAL PHASE 4	RP EL 37

1. Title

Eastward extention of the Harbour Arterial Phase 2

2. Problem Definition

The development of the EL IDZ requires for a direct and dedicated link between the IDZ based industries and the Harbour and also existing and future industries situated to the east on the Westbank.

3. Data

Refer to the IDZ transportation Planning Document – Ninham Shand.

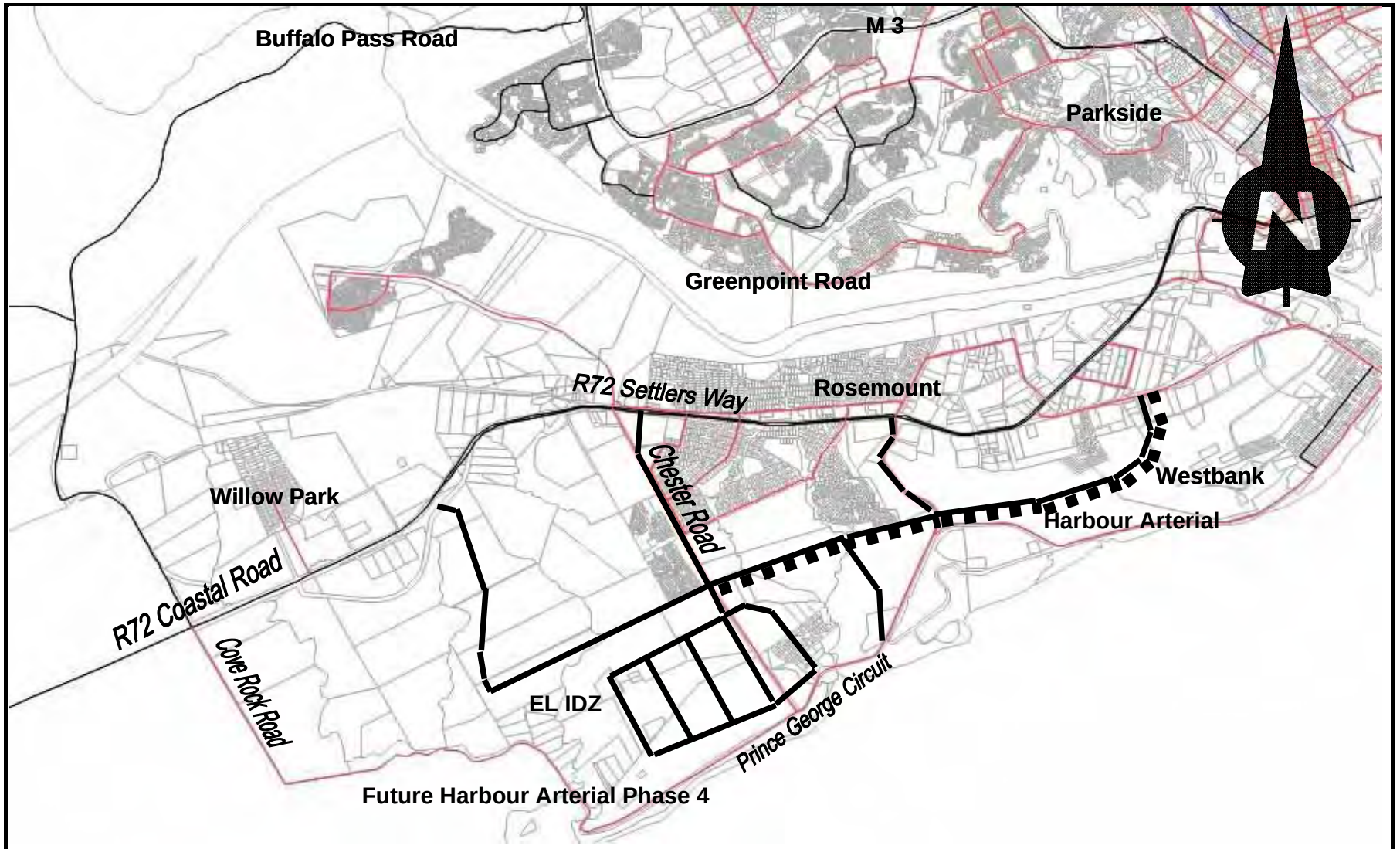
4. Project Description

The project will involve the design and construction of the second carriageway of the eastward extention of the Harbour Arterial from the Chester Road traffic circle to Military Road.

The estimated cost as at September 2006 is R50.0m.

5. Project Classification

Road Project



IDZ ROAD NETWORK : HARBOUR ARTERIAL 2nd CARRIAGEWAY	RP EL 39

1. Title

Billie Road upgrade

2. Problem Definition

In terms of the SDF with the planned improved access to Mdantsane off the N2 via the new Billie Road / N2 interchange, the current cross section of Billie Road will be insufficient to provide for traffic demand in the 2020 year.

3. Data

Refer to the SDF and VISUM modelling report for details.

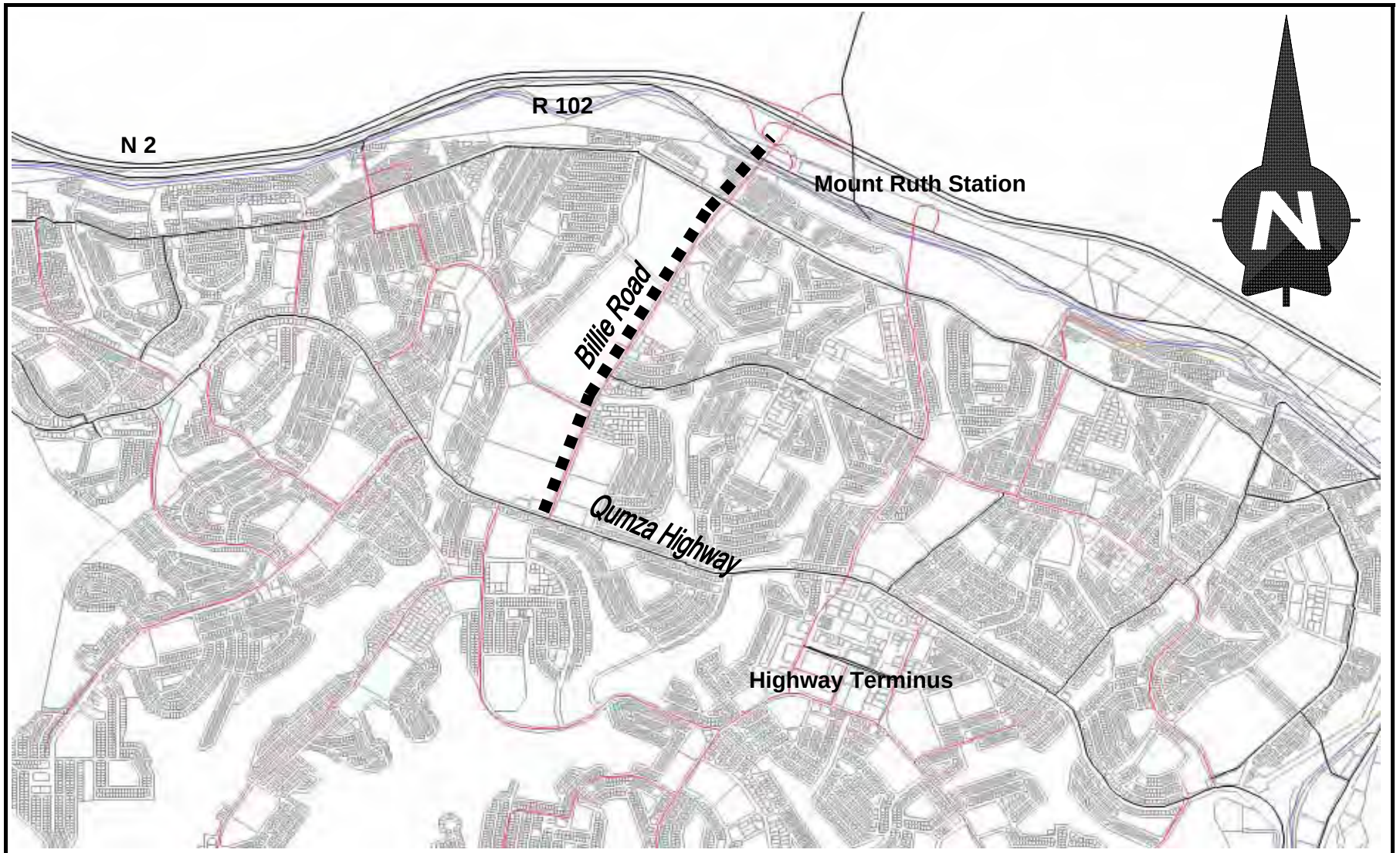
4. Project Description

The project will involve the design and construction of the widening of Billie Road to a four lane facility between the N2 and Qumza High Way.

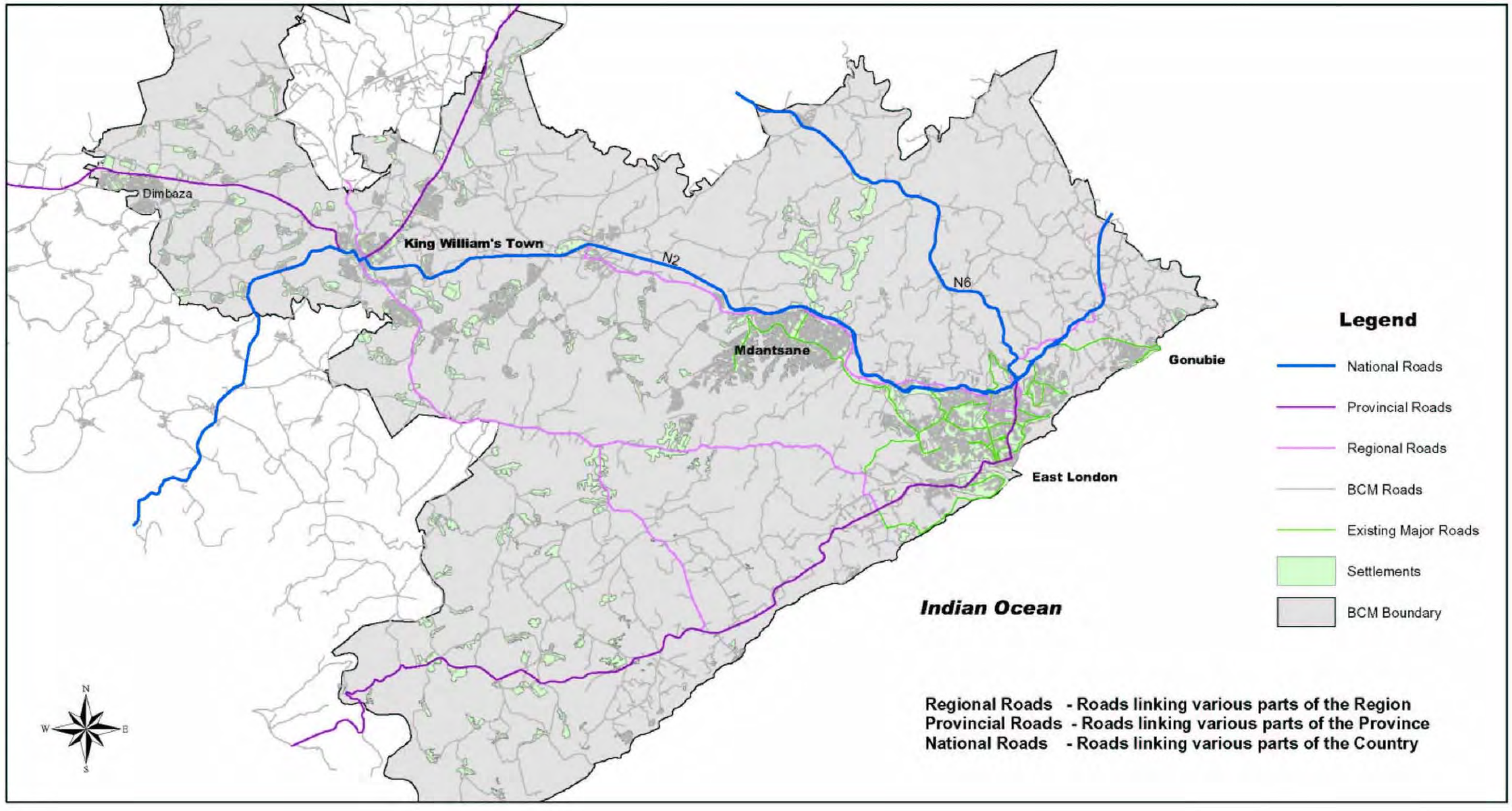
The estimated cost as at September 2006 is R15.0m.

5. Project Classification

Road Project



Billie Road Upgrade	RP MD 10



CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

BUFFALO CITY BOUNDARY

SCALE N.T.S.

SHT. No. 1 OF 1

FIGURE 1

REV A

CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

REGIONAL TRANSPORT LINKS

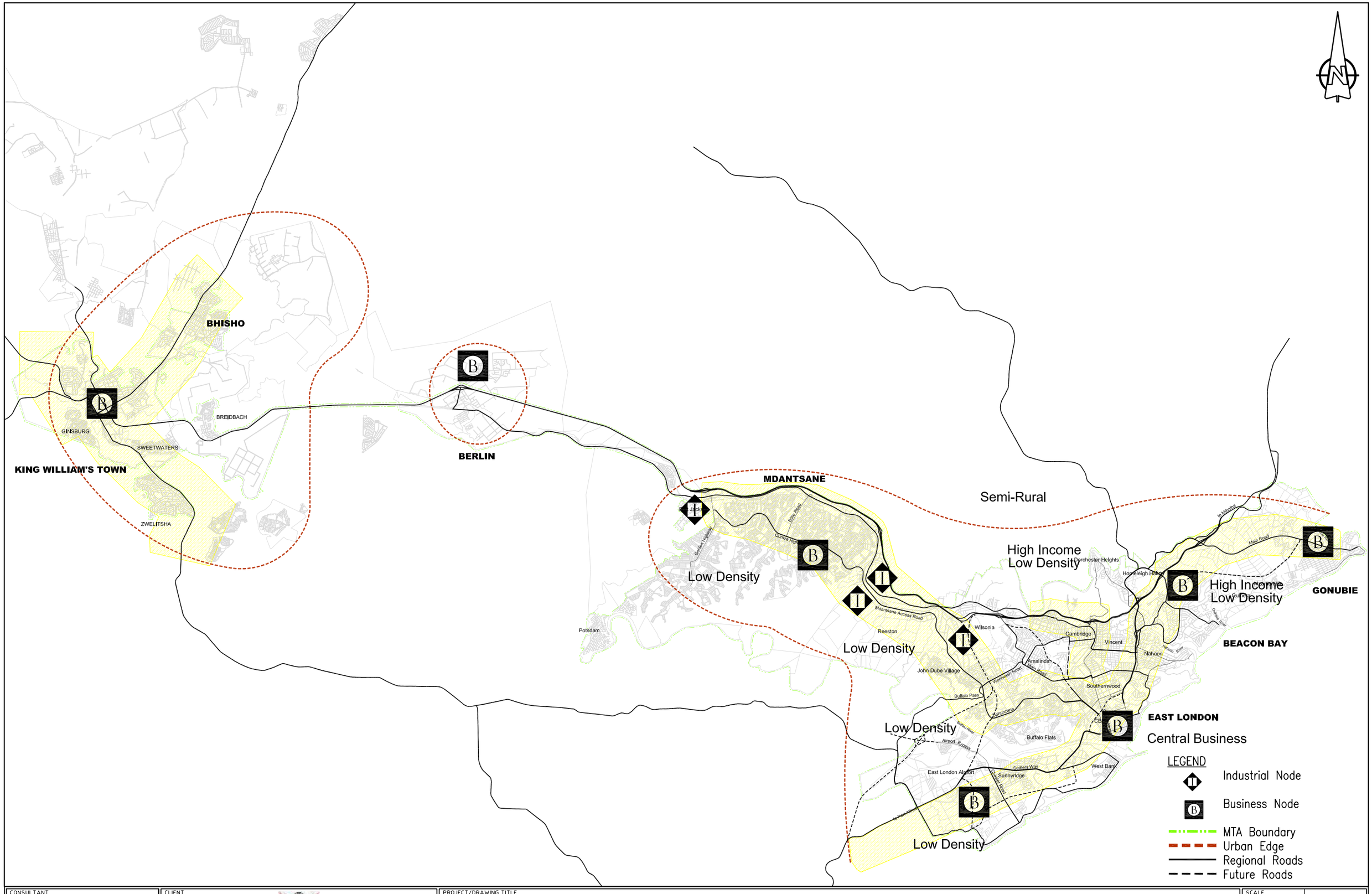
SCALE N.T.S.

SHT. No. 1 OF 1

ORIGINAL SCALE 500 0 500 1000 2000 3000 4000

FIGURE 2

REV A



CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

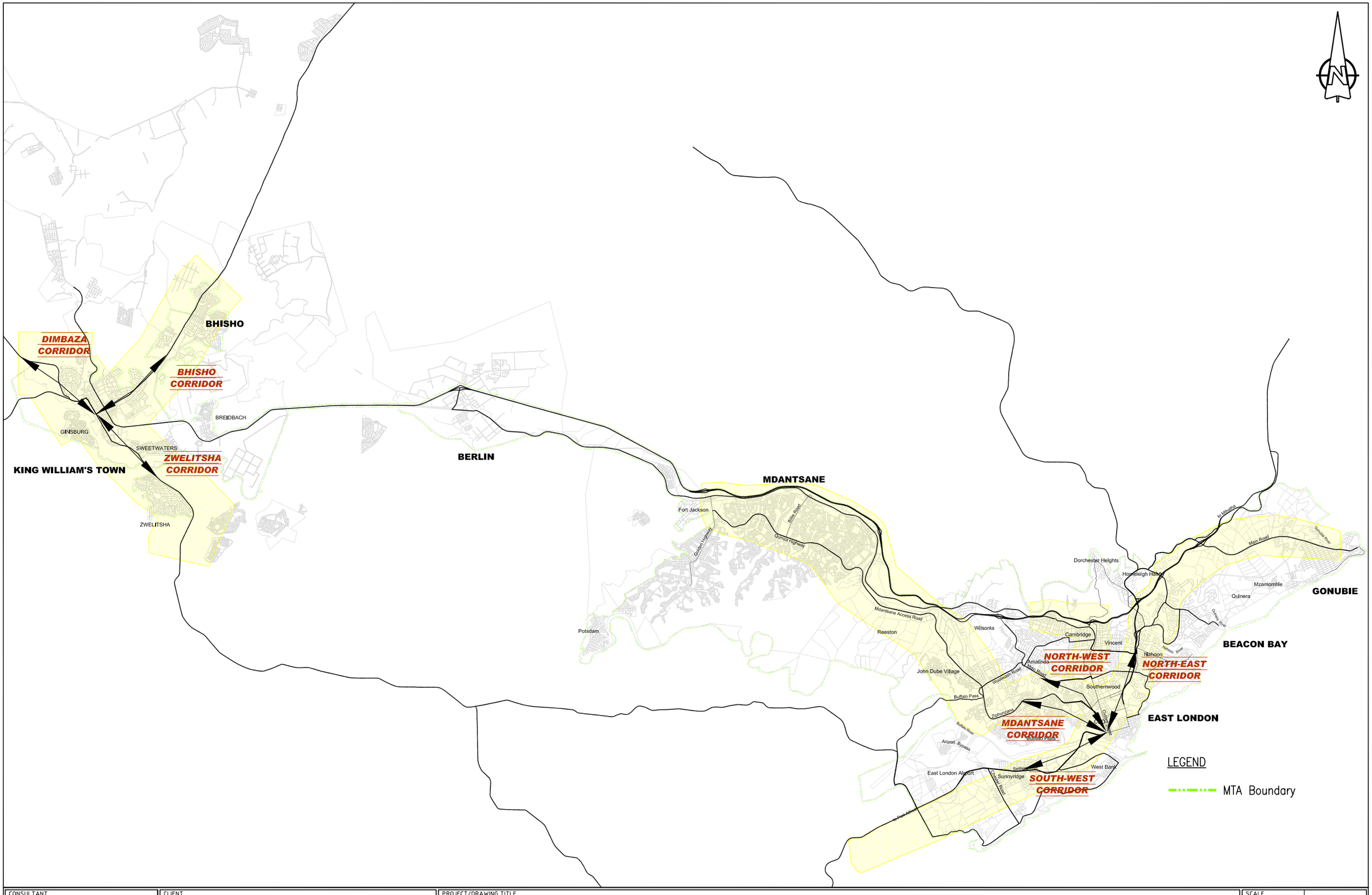
ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

BUFFALO CITY ACTIVITY CORRIDOR FRAMEWORK

SCALE N.T.S. SHT. No. 1 OF 1

ORIGINAL SCALE 500 0 500 1000 2000 3000 4000

FIGURE 3 REV A



CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

MAJOR TRANSPORT CORRIDORS IN THE BUFFALO CITY AREA

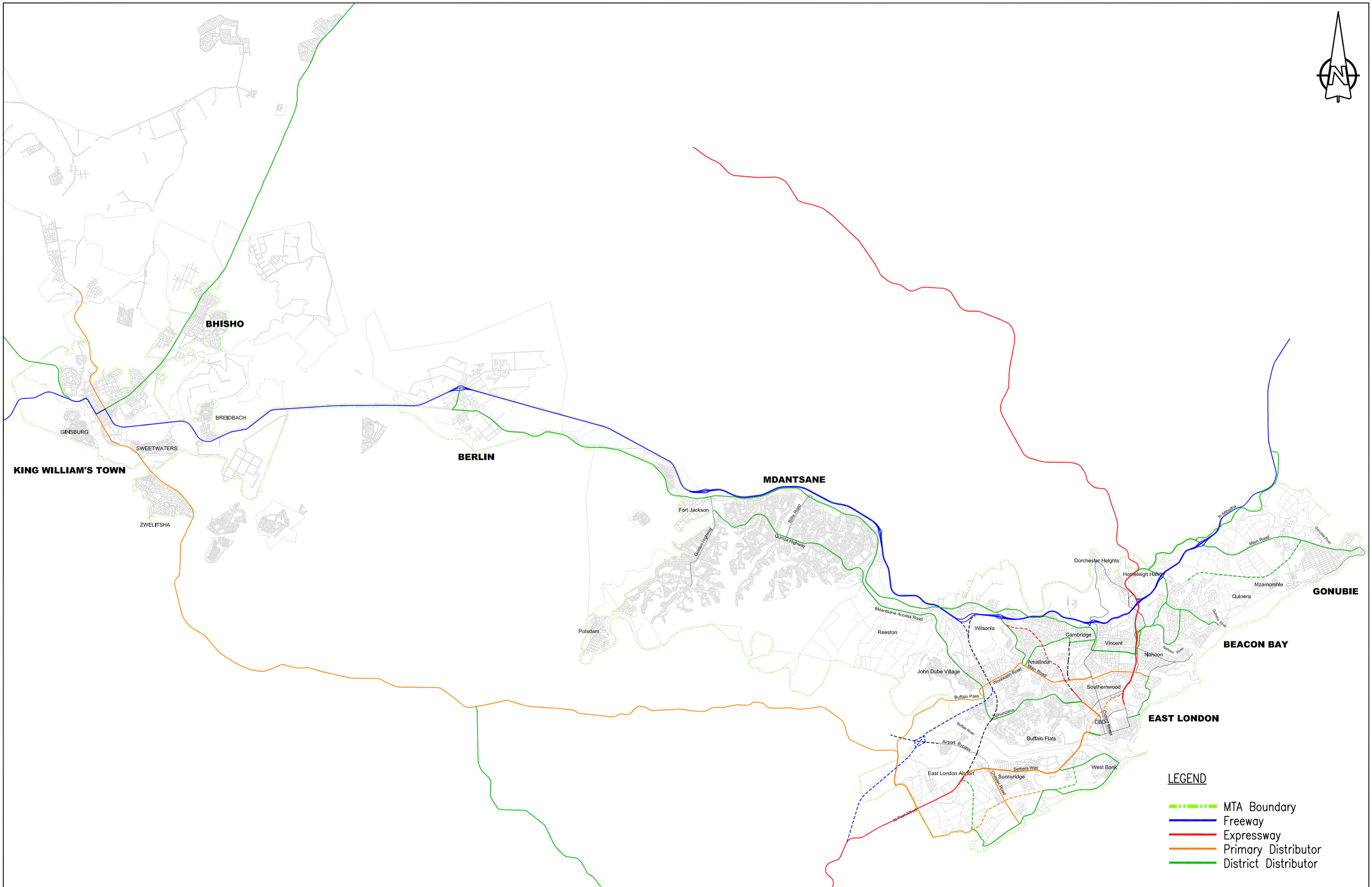
SCALE N.T.S.

SHT. No. 1 OF 1

ORIGINAL SCALE 500 0 500 1000 2000 3000 4000

FIGURE 4

REV A



CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

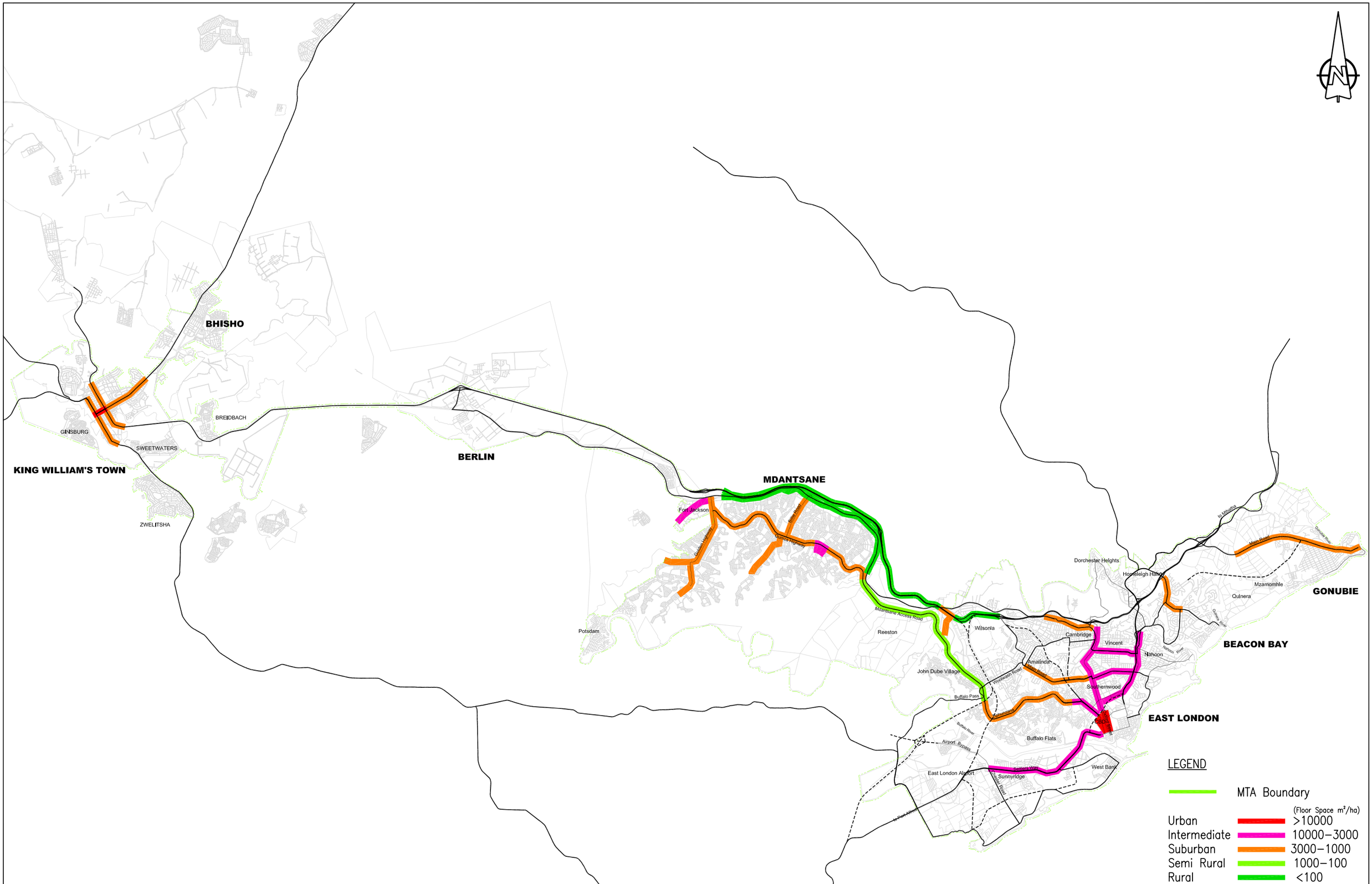
ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

SUGGESTED ARTERIAL ROAD CLASSIFICATION

SCALE N.T.S. | SHT. No. 1 OF 1

ORIGINAL SCALE 500 0 500 1000 2000 3000 4000

FIGURE 5 REV A



CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

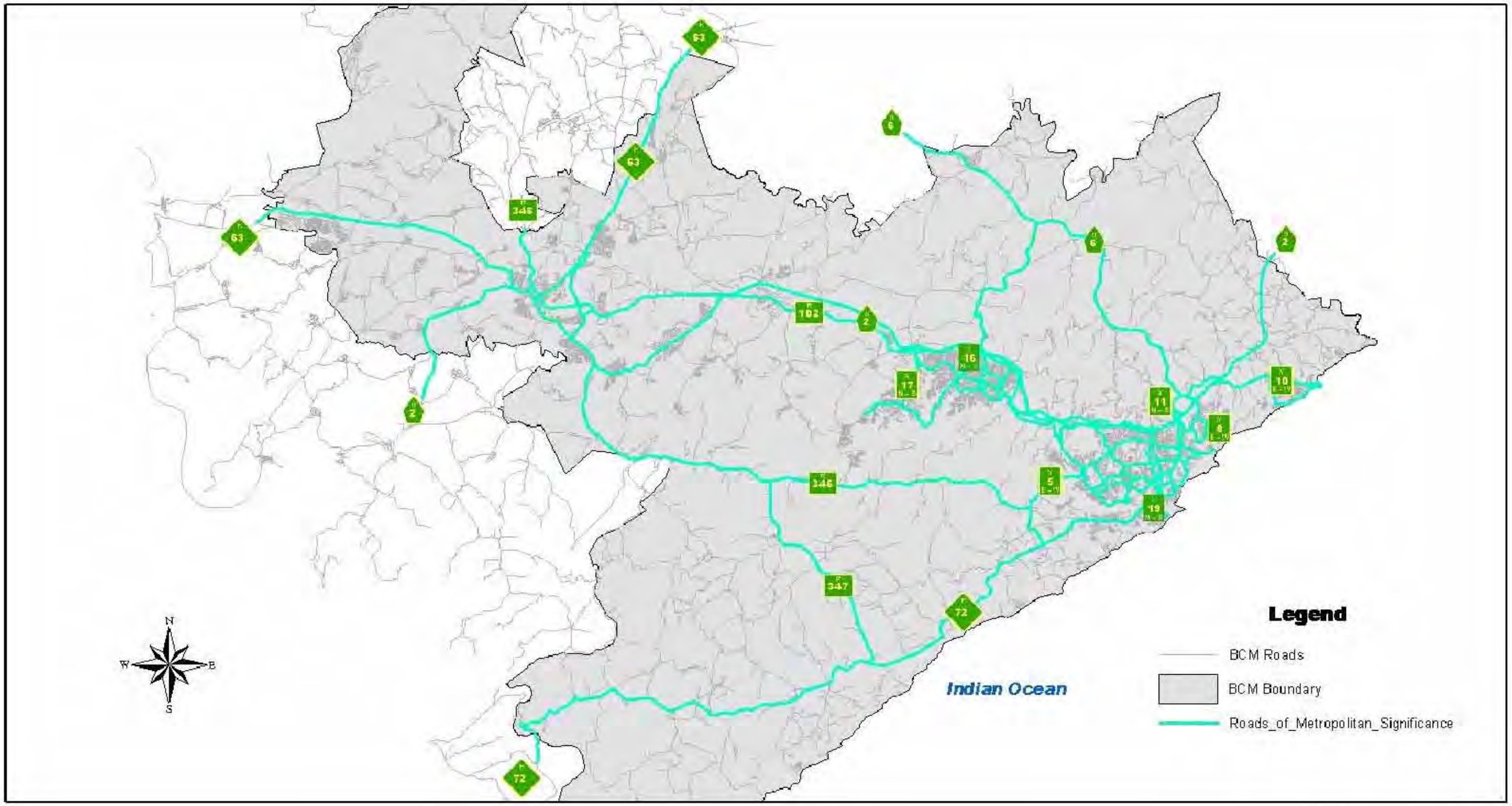
ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

DEVELOPMENT ENVIRONMENTS

SCALE N.T.S. SHT. No. 1 OF 1

ORIGINAL SCALE 500 0 500 1000 2000 3000 4000

FIGURE 6 REV A



CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

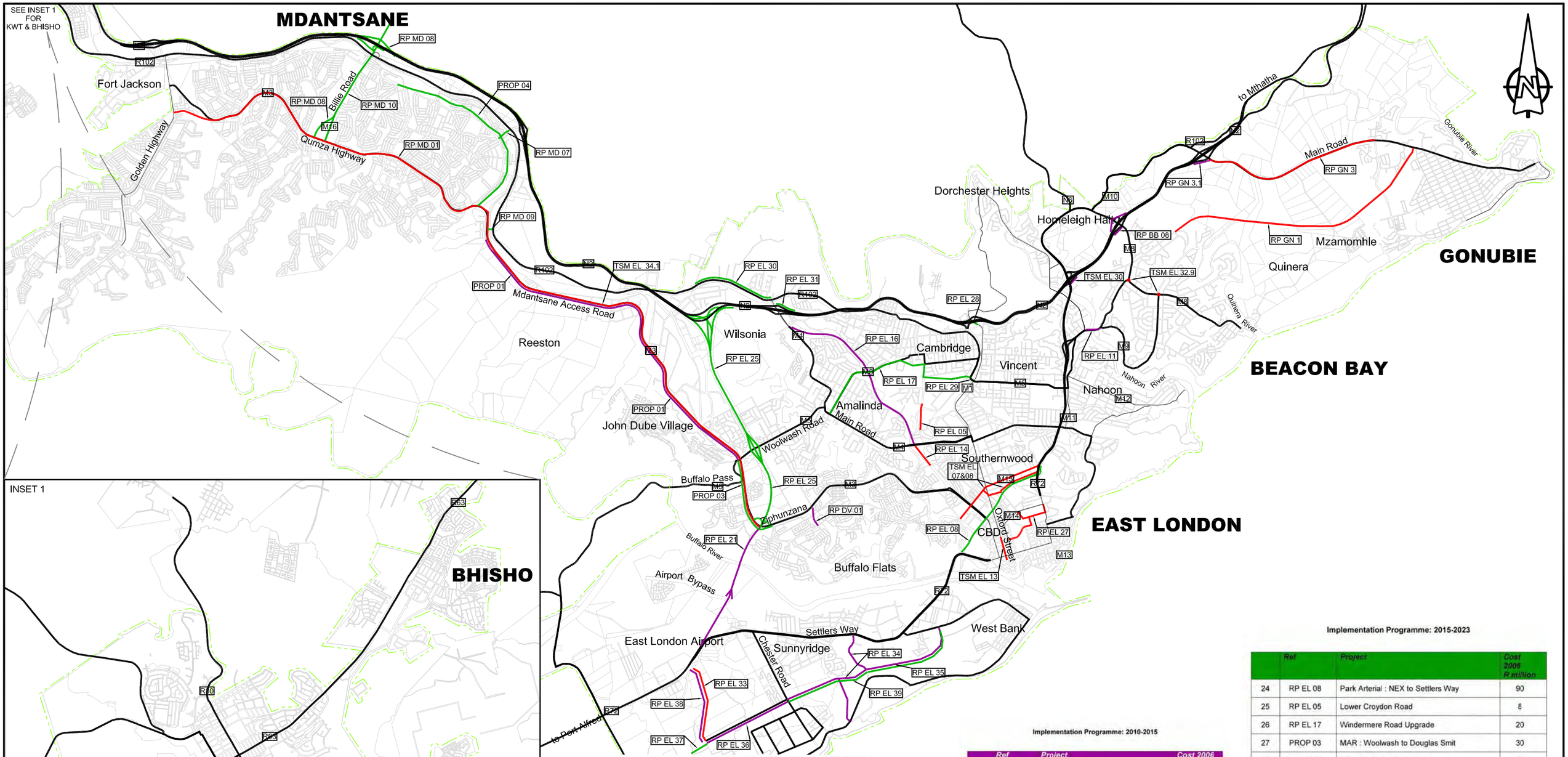
ROADS OF METROPOLITAN SIGNIFICANCE

SCALE N.T.S.

SHT. No. 1 OF 1

FIGURE 7

REV A



Implementation Programme: 2006-2010

	Ref	Project	Cost 2006 R million
1	RP GN 03	Widening of Gonubie Main Road Phase 1&2	40
2	RP GN 01	Beacon Bay - Gonubie New Arterial Road	60
3	TSM EL 07 & 08	NEX / Thorburn Terrace Upgrade	20
4	RP EL 14	NWX Frederick Street to Amalinda Main Rd	8
5	TSM EL 13	Oxford Street Mall (pedestrianisation)*	15
6	TSM EL 34.1	Mdantsane Access Road (MAR) Improvements	10
7	TSM EL 32.9	Bonza Bay Road Traffic Circles	2
8	RP MD 01	Qumza Highway Upgrade	40
9	RP EL 27	Fitzpatrick Road alignment & Sleeper Site roads	60
10	RP EL 33	IDZ: Completion of Breezyvale Link Road first carriageway	3
Total Cost for 2006 – 2010			258

Implementation Programme: 2010-2015

	Ref	Project	Cost 2006 R million
11	RP GN 3.1	Gonubie Main Road / N2 interchange on-ramp	6
12	RP BB 08	Bonza Bay Road / N2 interchange on-ramp	12
13	TSM EL 30	NEX / N2 interchange off-ramp	10
14	RP EL 11	Batting Bridge and approaches NEX on-ramp	40
15	RP DV 01	Sunnyside Road extension to Douglas Smit	6
16	RP EL 16	NWX : Amalinda Main Road to Summerpride	60
17	RP EL 21	Buffalo Crossing : R72 to MAR	180
18	TSM KWT 01	Zwelitsha Road pedestrian facility	2
19	PROP 01	MAR : Main Entrance to Woolwash Road	51
20	RP EL 34	IDZ: Eastward extension of the Harbour Arterial Road (HAR) Phase 1 to Potters Pass, 1 carriageway, incl. link to Prince George Drive	24
21	RP EL 35	IDZ: Remainder of the Eastward extension of HAR to Military Road / West Bank, 1 carriageway	35
22	RP EL 36	IDZ: Second carriageway to existing HAR between traffic circles	15
23	RP EL 38	IDZ: Second carriageway to Breezyvale LinkRd	12

Implementation Programme: 2015-2023

	Ref	Project	Cost 2006 R million
24	RP EL 08	Park Arterial : NEX to Settlers Way	90
25	RP EL 05	Lower Croydon Road	8
26	RP EL 17	Windermere Road Upgrade	20
27	PROP 03	MAR : Woolwash to Douglas Smit	30
28	RP MD 08	Billie Road / N2 Interchange	30
29	RP MD 07	Mdantsane / N2 Interchange	20
30	PROP 04	Mdantsane Perimeter Road	50
31	RP KWT 01	King Williams Town By-Pass	80
32	RP EL 25	Buffalo River Crossing N2 - Ziphunzana	120
33	RP EL 28	Western Ave / N2 Interchange	30
34	RP EL 29	Kings Way Rail underpass	15
35	RP MD 09	MAR R102 link over rail	15
36	RP EL 30	Voortrekker Road upgrade	30
37	RP EL 31	Amalinda Main Road N2 Interchange	15
38	RP EL 37	IDZ: Westward extension of HAR to Cove Rock / R72, First carriageway	35
39	RP EL 39	IDZ: Completion of Eastward Extension of HAR, second carriageway on both phases	50
40	RP MD 10	Billie Road upgrade	20
Total Cost for 2015 - 2023			658

CONSULTANT

CLIENT

PROJECT/DRAWING TITLE

ARTERIAL ROAD NETWORK DEVELOPMENT PLAN : 2006 - 2023

EAST LONDON, BEACON BAY, GONUBIE, MDANTSANE, KING WILLIAM'S TOWN & BHISHO

SCALE 1:30 000

SHT. No. 1 OF 2

ORIGINAL SCALE 1 : 30 000

FIGURE 8

REV A