






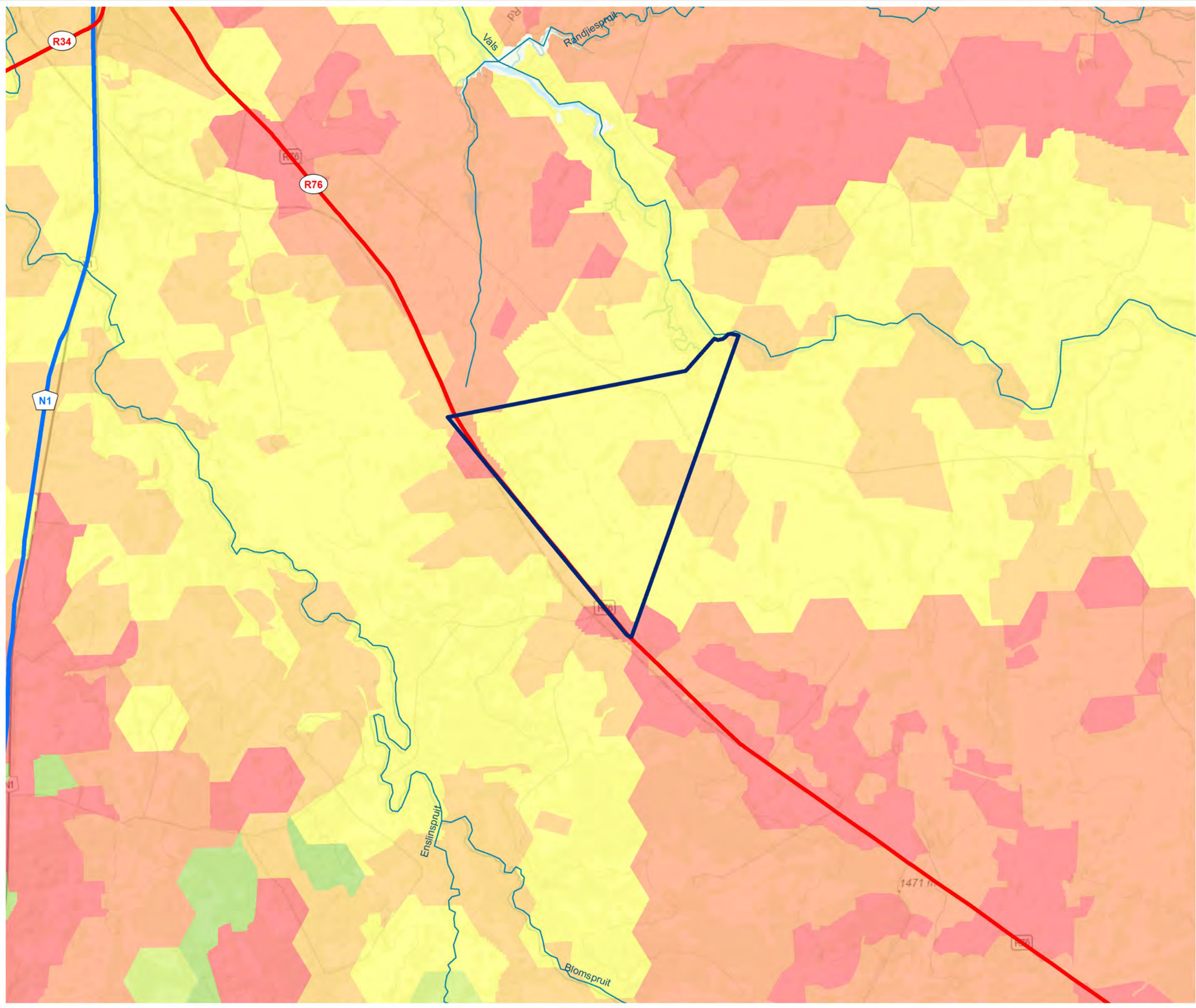
PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY
NEAR KROONSTAD, FREE STATE PROVINCE
CRITICAL BIODIVERSITY AREAS

Legend

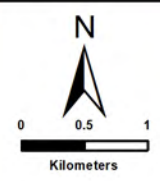
-  National Route
-  Arterial Routes
-  Rivers
-  Bonsmara PV Application Site

CBA Classification

-  Protected
-  CBA1
-  CBA2
-  ESA1
-  ESA2
-  Other
-  Degraded



Source:
 NGI, 2014
 FREE STATE BIODIVERSITY SPATIAL PLAN, 2017
 NFEPA, 2011



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Map Ref No 17869	Revision 0	Date

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**PROPOSED CONSTRUCTION
OF THE BONSMARA
SOLAR PV FACILITY
NEAR
KROONSTAD,
FREE STATE PROVINCE
DRAFT PROPOSED LAYOUT
WITH SENSITIVITIES**

Legend

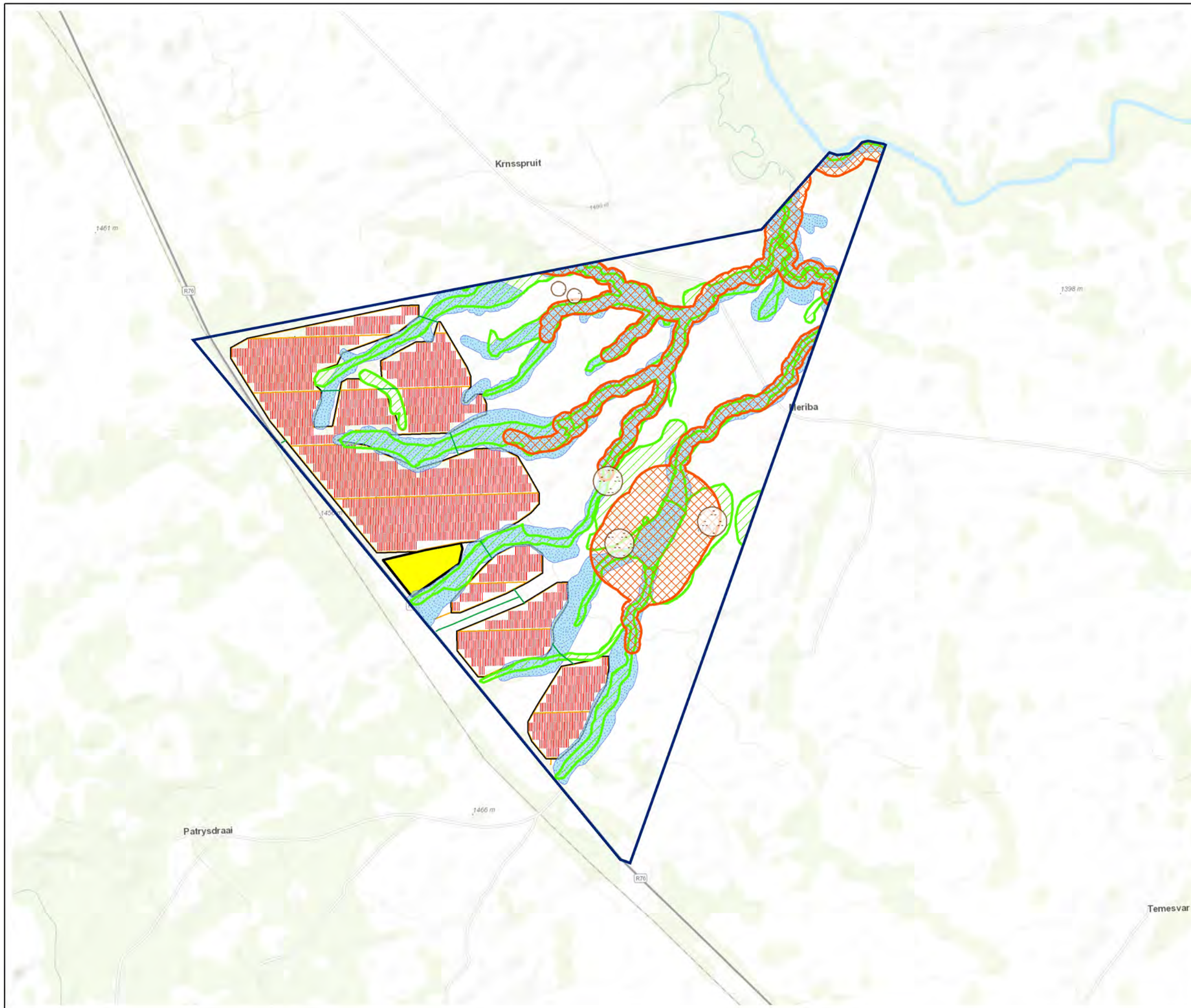
 Bonsmara PV Application Site

Proposed Solar PV Facility Components

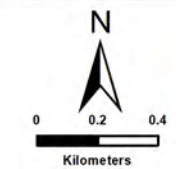
-  Fencing
-  Internal Road Network
-  Additional Roads
-  PV Areas
-  Power Stations
-  Substation

Environmental Sensitivities (No-Go)

-  Heritage Sensitivity
-  Avifauna Sensitivity
-  Terrestrial Sensitivity
-  Aquatic Sensitivity



Source:
NGI, 2014



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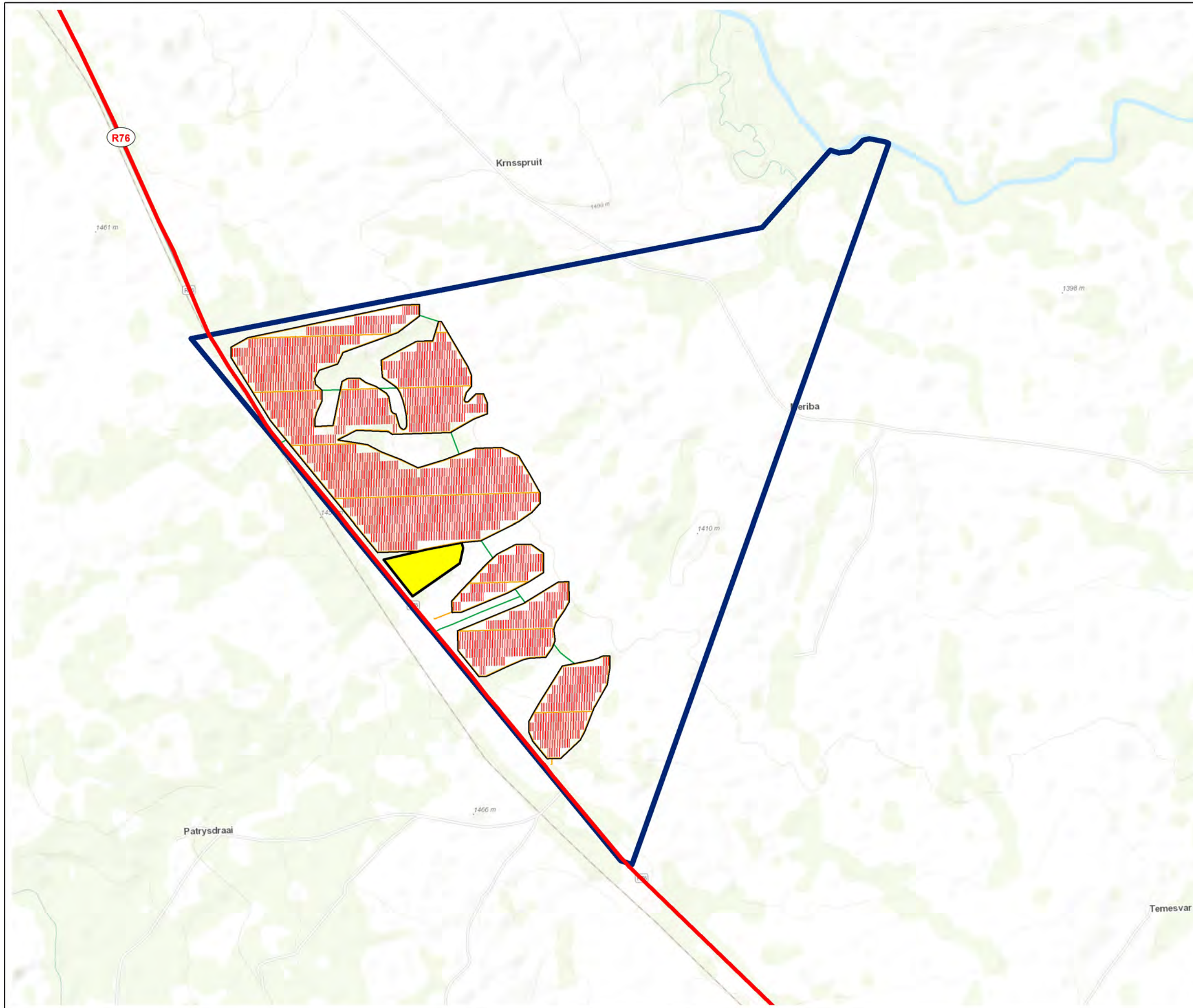
**PROPOSED CONSTRUCTION
OF THE BONSMARA
SOLAR PV FACILITY
NEAR
KROONSTAD,
FREE STATE PROVINCE
DRAFT PROPOSED LAYOUT**

Legend

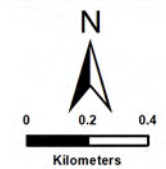
-  Arterial Route
-  Bonsmara PV Application Site

Proposed Solar PV Facility Components

-  Fencing
-  Internal Road Network
-  Additional Roads
-  PV Areas
-  Power Stations
-  Substation



Source:
NGI, 2014



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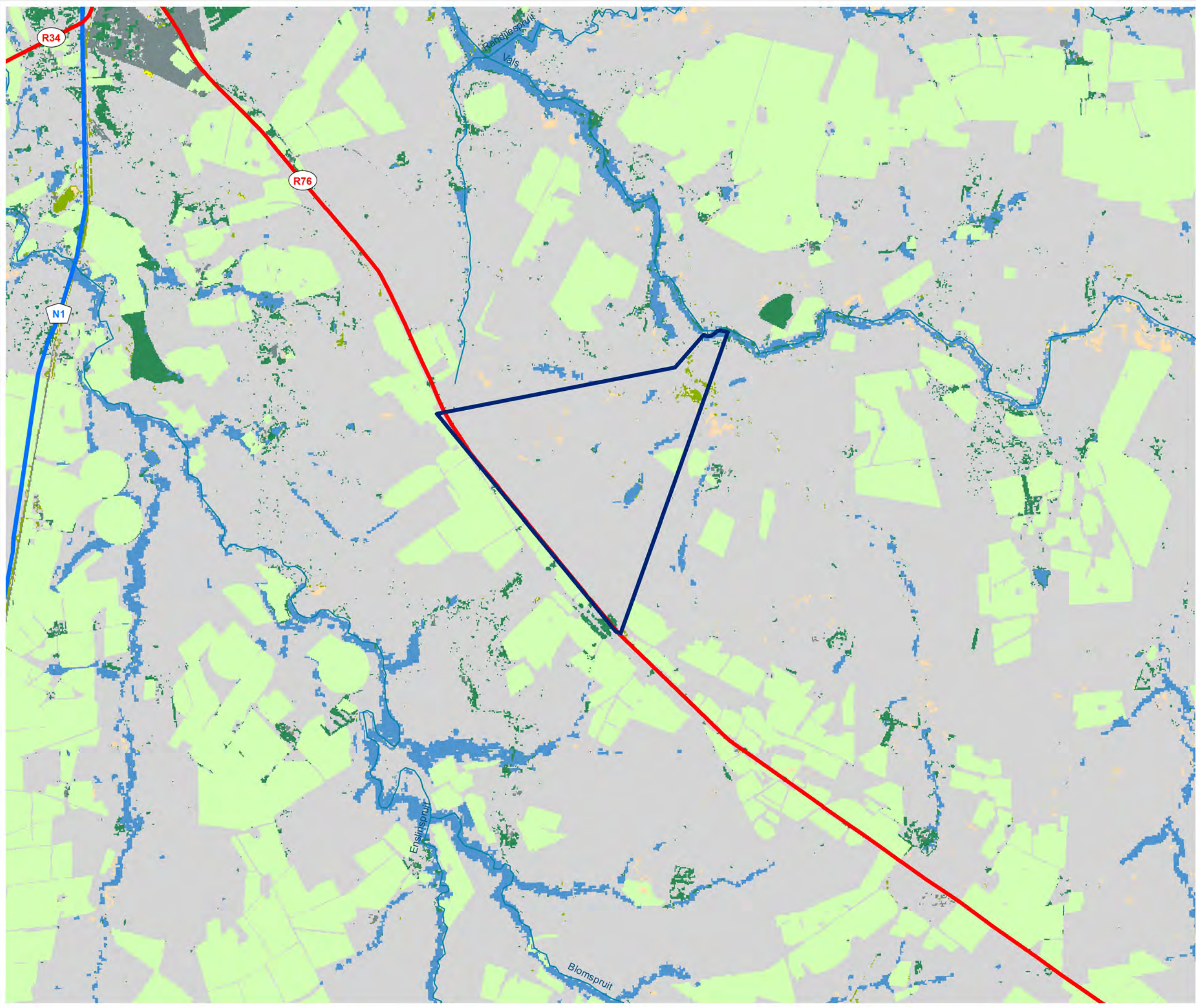
PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY NEAR KROONSTAD, FREE STATE PROVINCE BROAD LAND COVER CLASSIFICATION

Legend

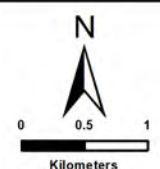
-  National Route
-  Arterial Routes
-  Rivers
-  Bonsmara PV Application Site

Land Cover Classification

-  Barren Land
-  Built-Up Areas
-  Cultivated Land
-  Forested Land
-  Grassland
-  Mines & Quarries
-  Shrubland
-  Wetlands / Waterbodies



NFEPA, 2011
2018 SA NATIONAL LAND COVER
(© GEOTERRAIMAGE - 2018)



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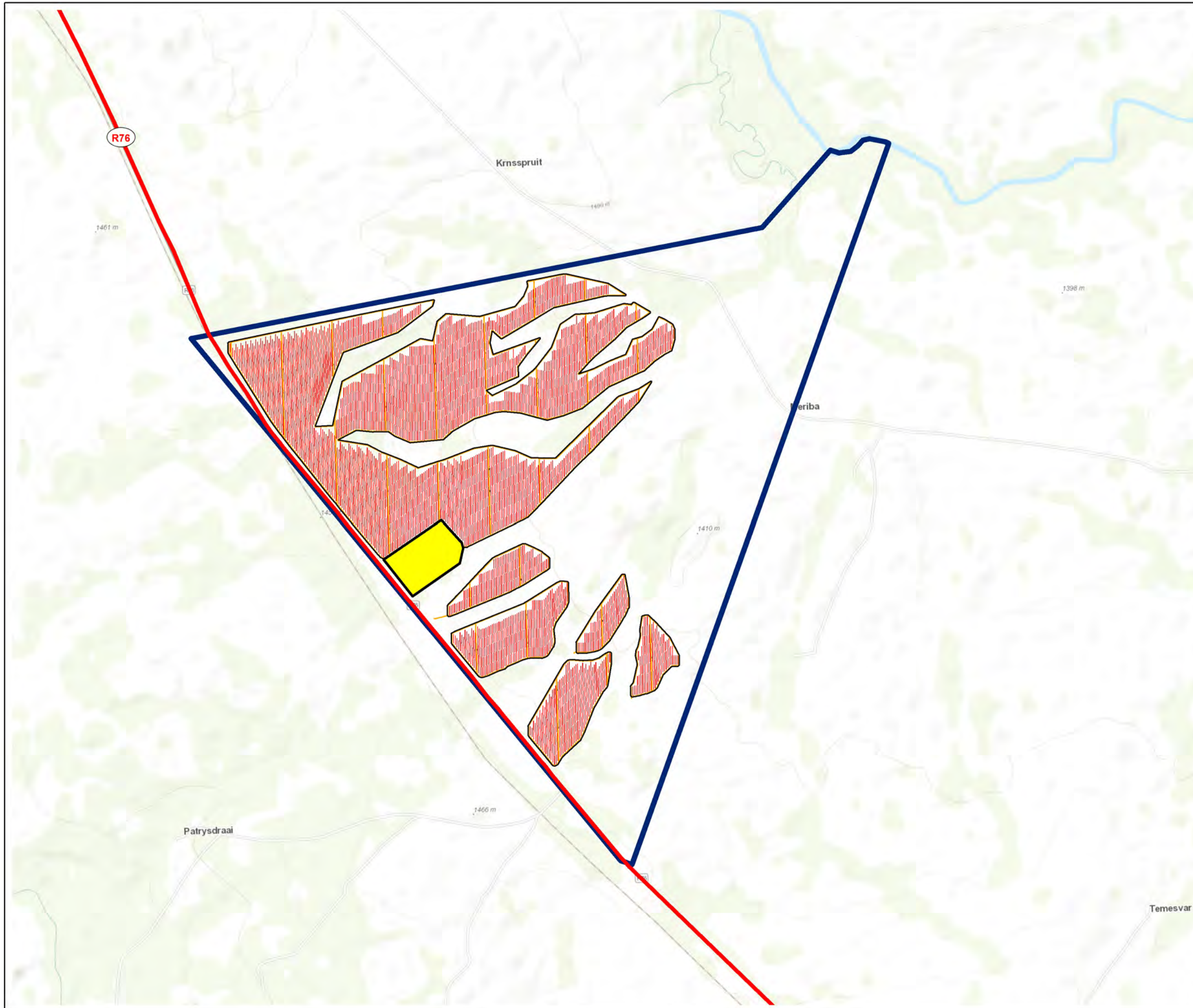
**PROPOSED CONSTRUCTION
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SOLAR PV FACILITY
NEAR
KROONSTAD,
FREE STATE PROVINCE
PRELIMINARY LAYOUT**

Legend

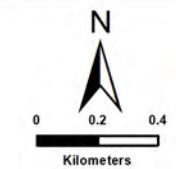
-  Arterial Route
-  Bonsmara PV Application Site

Proposed Solar PV Facility Components

-  PV Areas
-  Power Stations
-  Substation
-  Fencing
-  Internal Road Network



Source:
NGI, 2014
ESKOM, 2012

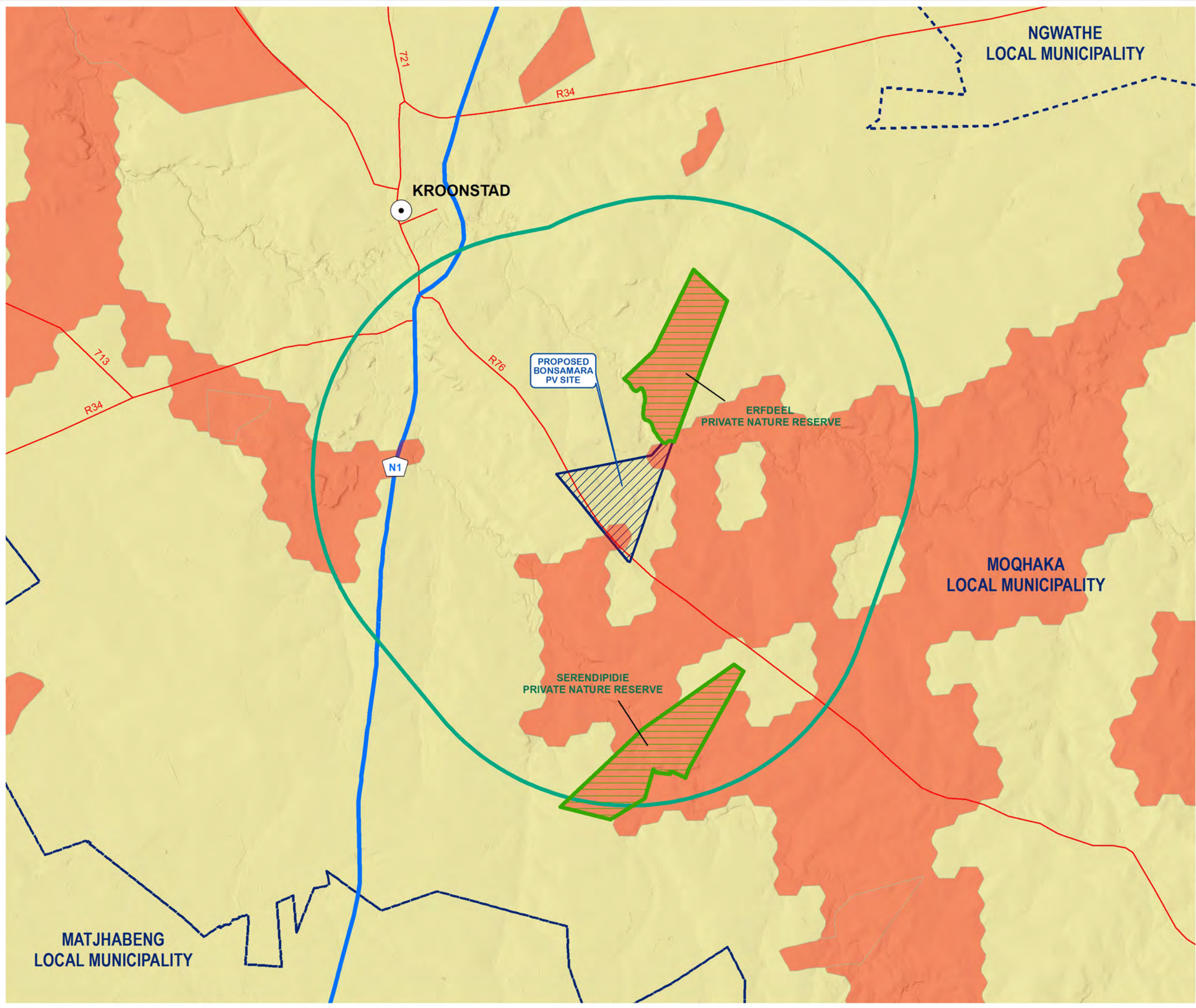


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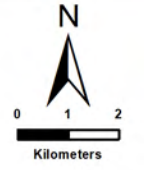
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PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY
NEAR KROONSTAD, FREE STATE PROVINCE
PROTECTED AREAS

- Legend**
- Main Towns
 - National Route
 - Main Arterial Routes
 - Local Municipal Boundaries
 - Protected Areas
 - NPAES: Priority Focus Area
 - 10km Radius
 - Bonsmara PV Application Site

Source:
 DFFE, 2022
 NGI, 2014
 MUNICIPAL DEMARCATION BOARD, 2016

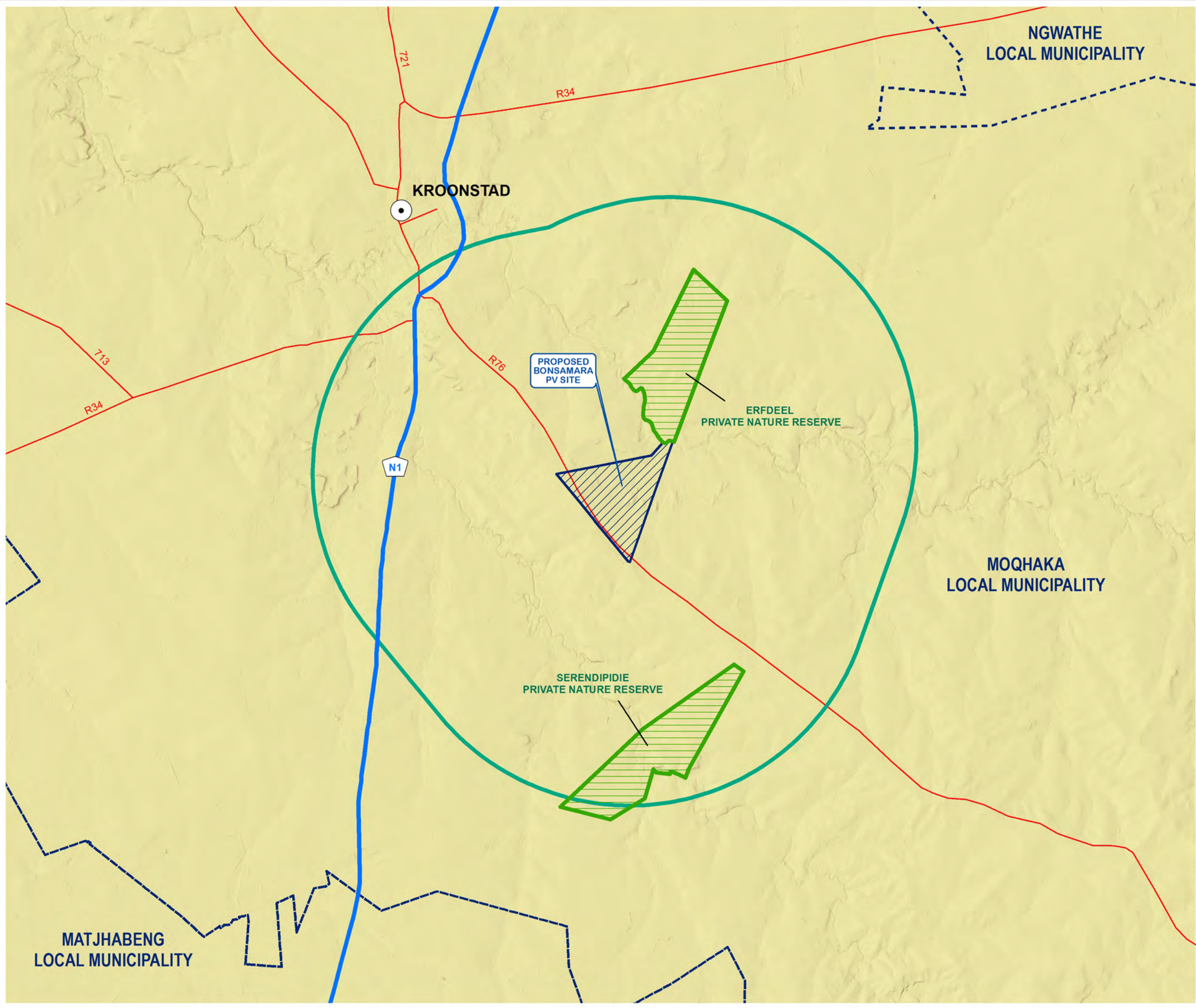


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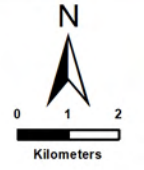


PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY
NEAR KROONSTAD, FREE STATE PROVINCE
PROTECTED AREAS

Legend

- Main Towns
- National Route
- Main Arterial Routes
- Local Municipal Boundaries
- Protected Areas
- 10km Radius
- Bonsmara PV Application Site

Source:
 DFFE, 2022
 NGI, 2014
 MUNICIPAL DEMARCATION BOARD, 2016



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MATJHABENG LOCAL MUNICIPALITY

MOQHAKA LOCAL MUNICIPALITY

NGWATHE LOCAL MUNICIPALITY

KROONSTAD

PROPOSED BONSMARA PV SITE

ERFDEEL PRIVATE NATURE RESERVE

SERENDIPIDIE PRIVATE NATURE RESERVE

N1

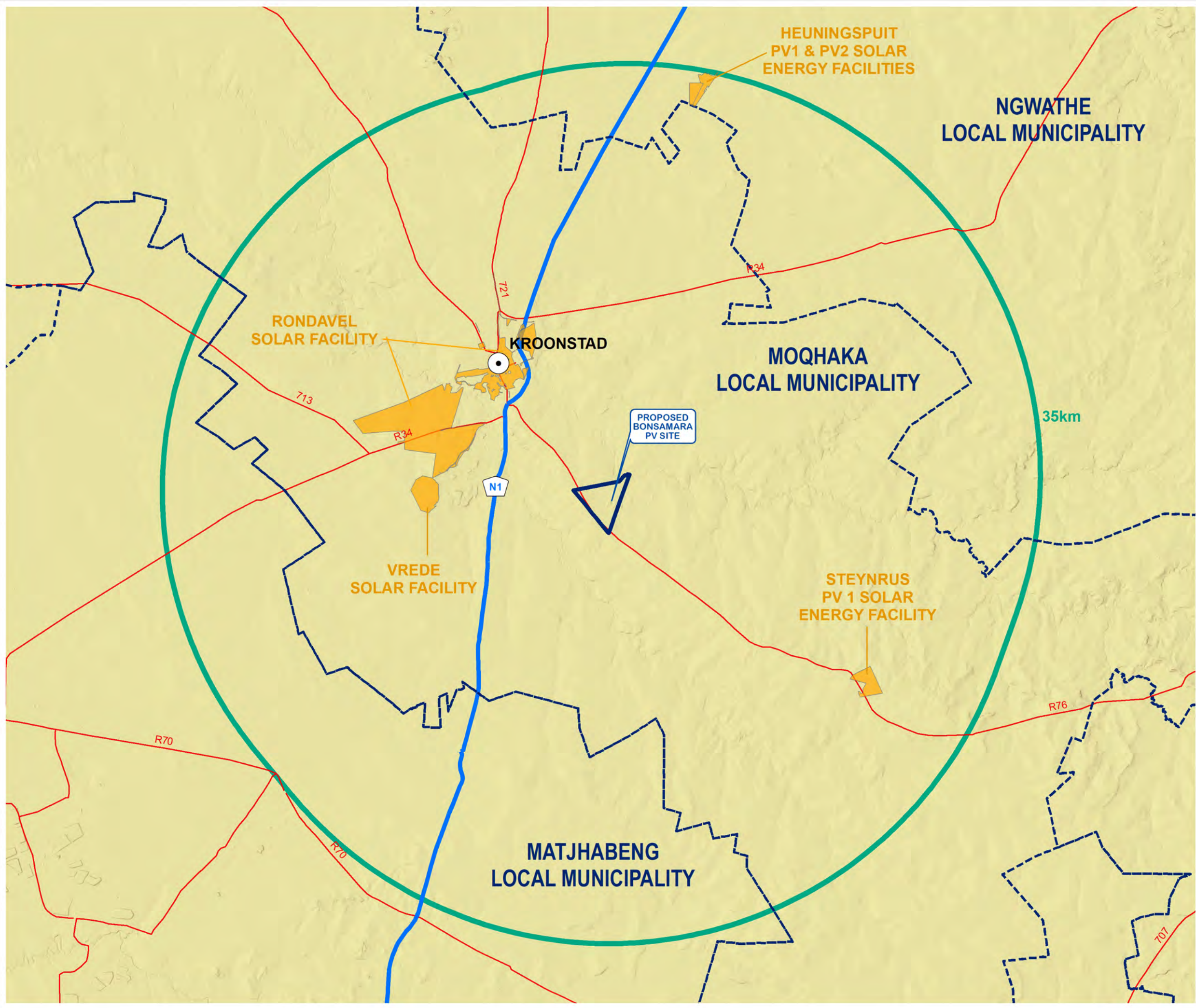
721

R34

713

R34

R76



PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY
NEAR KROONSTAD, FREE STATE PROVINCE
RENEWABLE ENERGY PROJECTS (EXISTING AND PROPOSED)

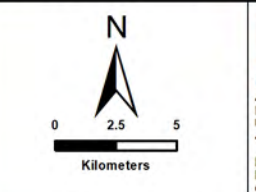
Legend

- Main Towns
- Main Arterial Routes
- National Route
- Local Municipal Boundaries
- Bonsmara PV Application
- 35km Radius

Renewable Energy Application Sites

- Solar PV

Source:
 DFFE, 2022
 NGI, 2014
 MUNICIPAL DEMARCATION BOARD, 2016



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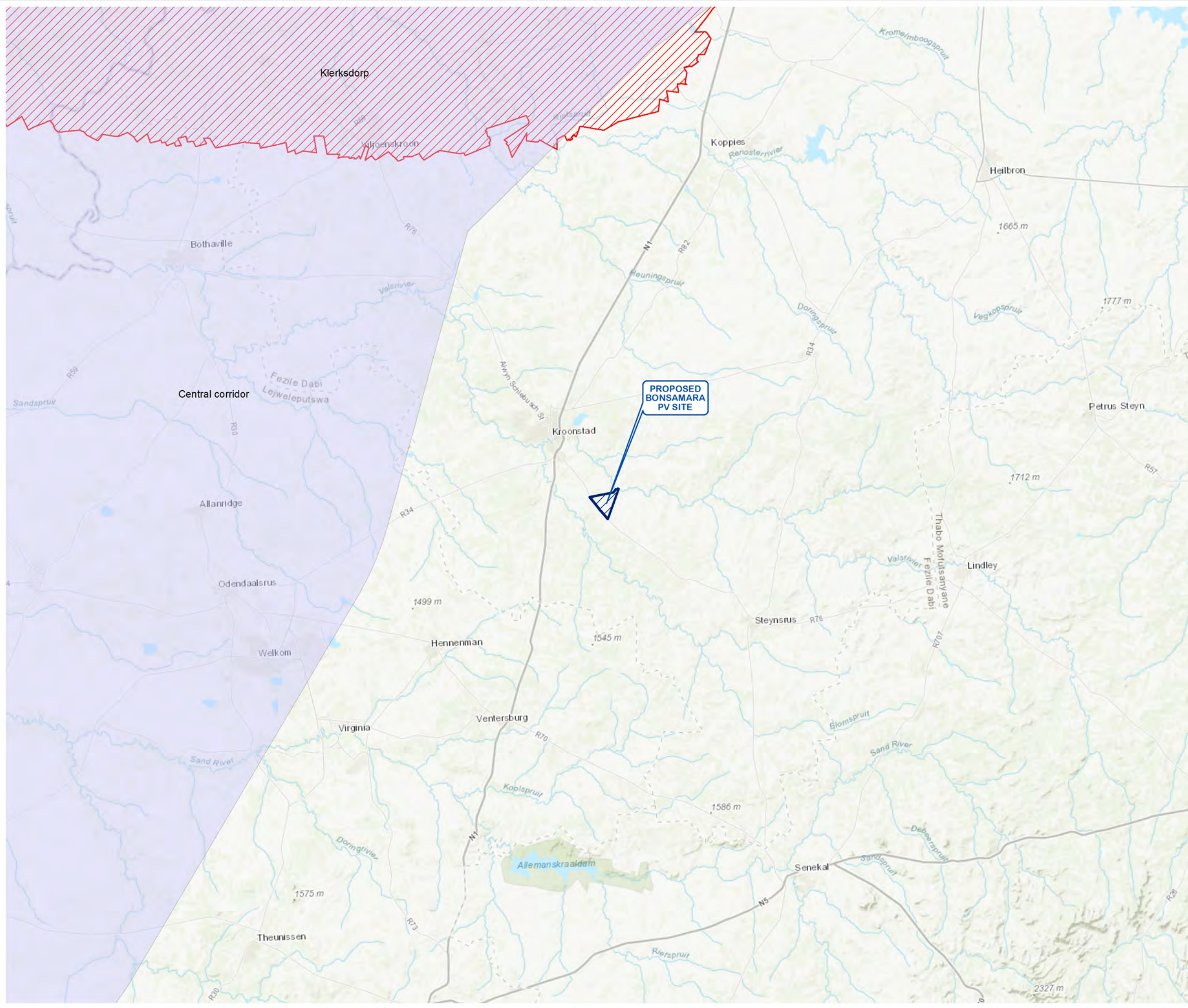
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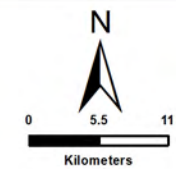
**PROPOSED CONSTRUCTION
OF THE BONSMARA
SOLAR PV FACILITY
NEAR
KROONSTAD,
FREE STATE PROVINCE
REDZ/POWER CORRIDORS**

Legend

-  Phase 2 REDZ
-  Power Corridors
-  Bonsmara PV Application Site



Source:
NGI, 2014
DFFE, 2021



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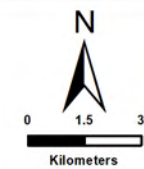
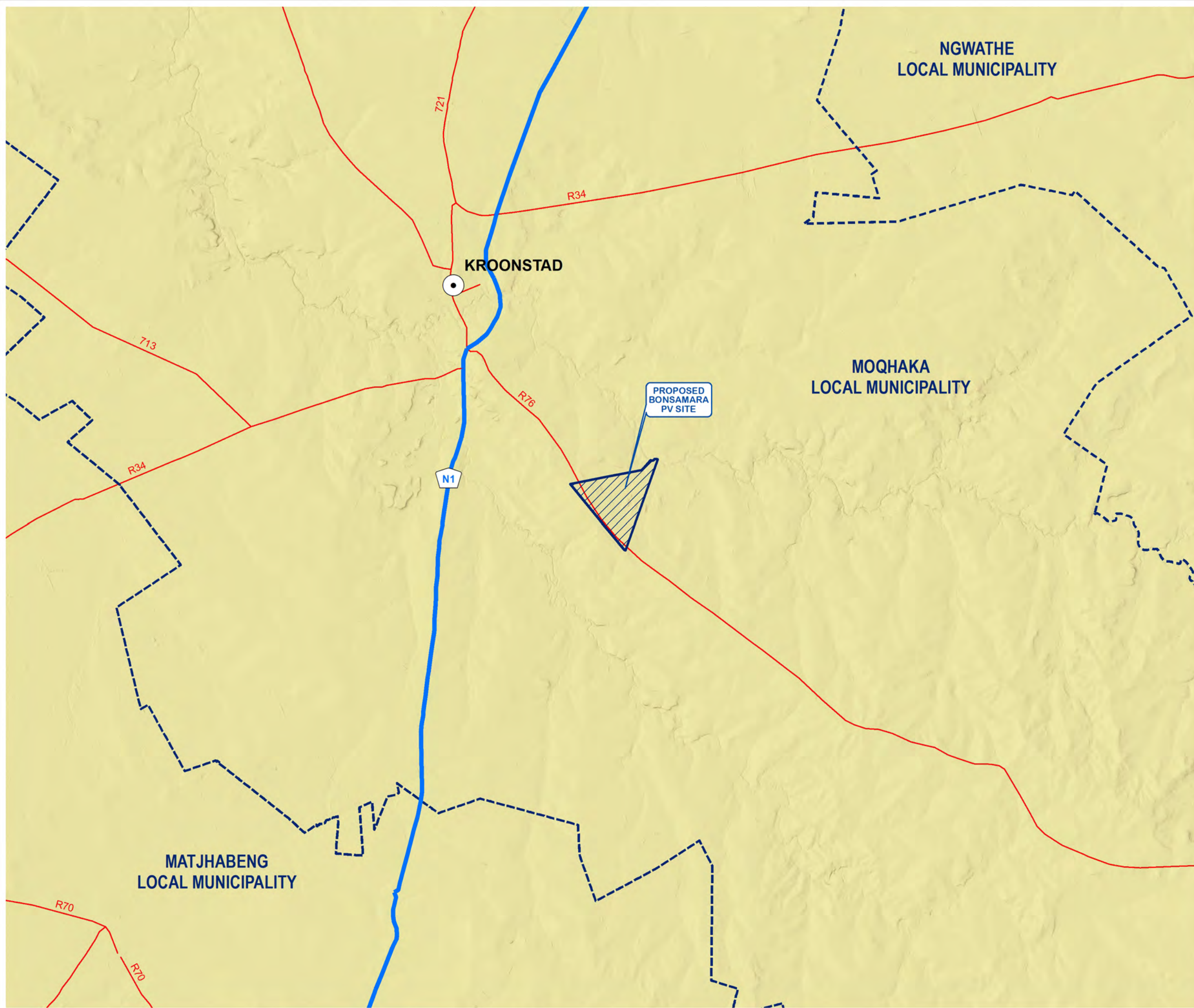
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PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY
NEAR KROONSTAD, FREE STATE PROVINCE
REGIONAL CONTEXT

Legend

-  Main Towns
-  National Route
-  Main Arterial Routes
-  Local Municipal Boundaries
-  Bonsmara PV Application Site

Source:
 NGI, 2014
 MUNICIPAL DEMARCATION BOARD, 2016



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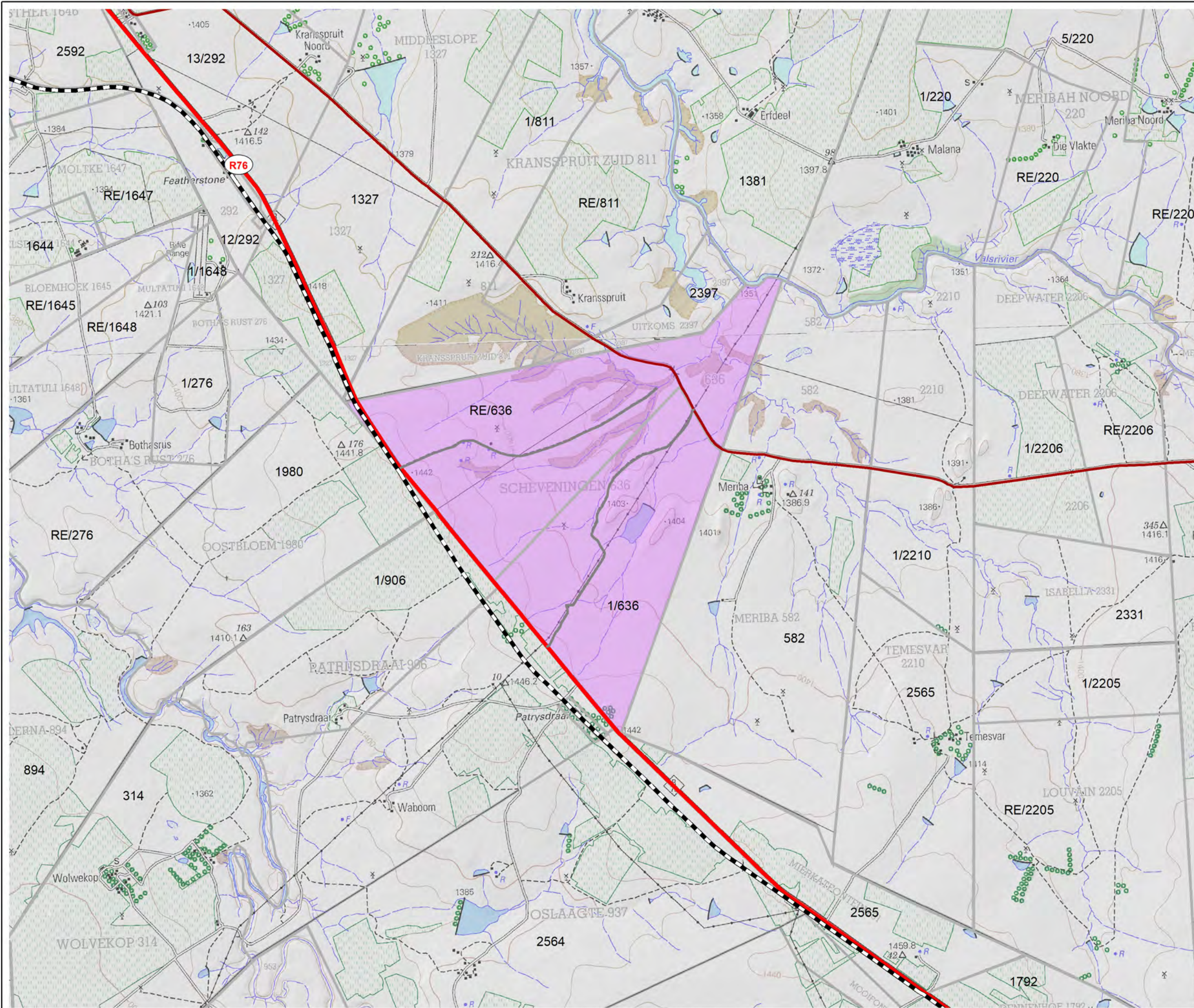
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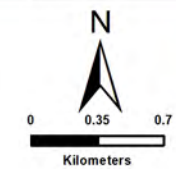
**PROPOSED CONSTRUCTION
OF THE BONSMARA
SOLAR PV FACILITY**
**NEAR
KROONSTAD,
FREE STATE PROVINCE**
SITE LOCALITY

Legend

-  Railway
-  Local Access
-  Arterial Route
-  Secondary Road
-  Farm Portions
-  Bonsmara PV Application Site



Source:
NGI, 2014



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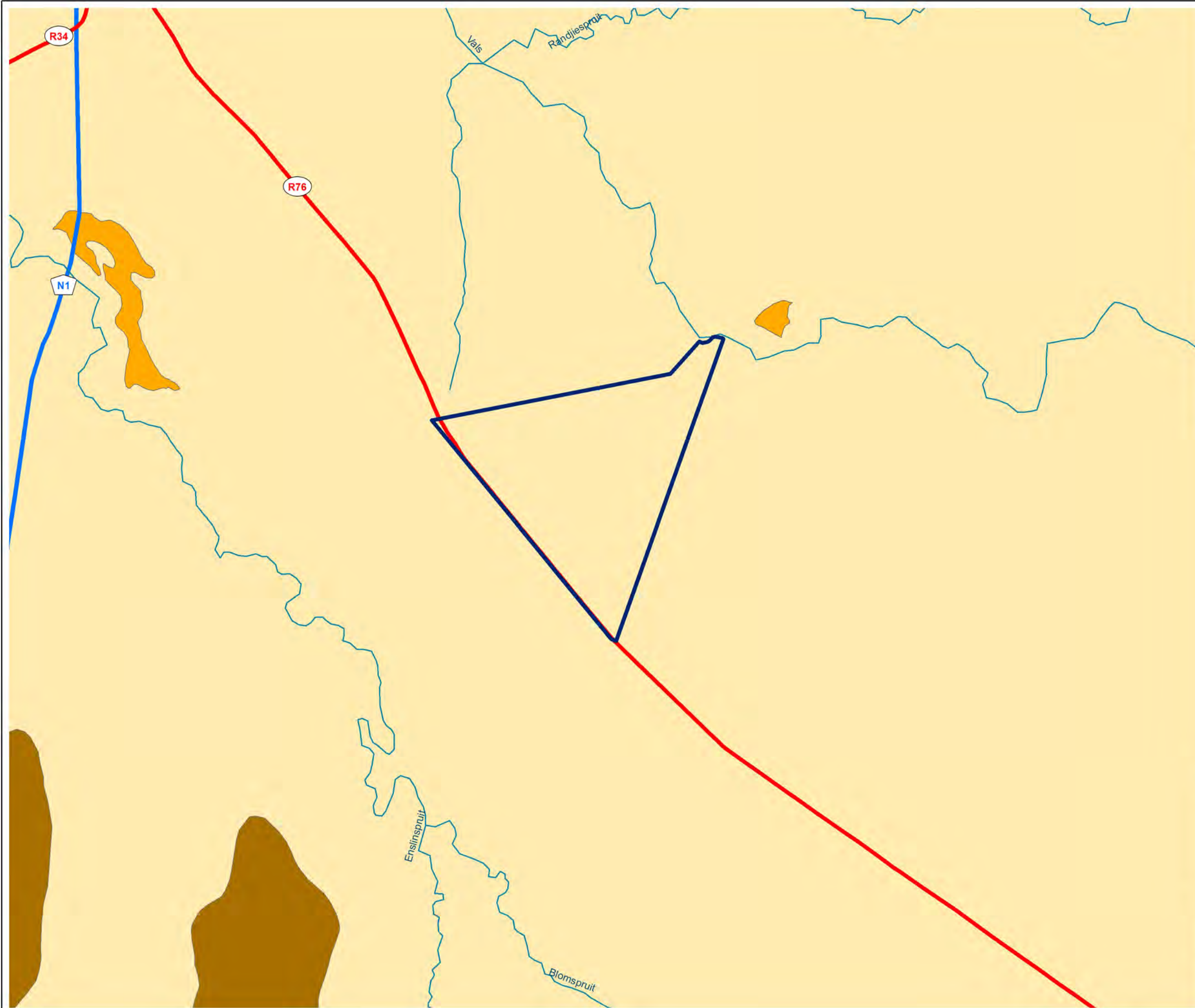
PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY
NEAR KROONSTAD, FREE STATE PROVINCE
VEGETATION CLASSIFICATION

Legend

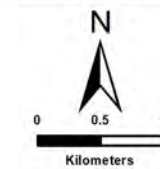
-  National Route
-  Arterial Routes
-  Rivers
-  Bonsmara PV Application Site

Vegetation Classification

-  Central Free State Grassland
-  Highveld Salt Pans
-  Vaal-Vet Sandy Grassland



Source:
 SANBI, 2018
 NFEPA, 2011



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**PROPOSED CONSTRUCTION
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NEAR
KROONSTAD,
FREE STATE PROVINCE
SENSITIVITY LAYOUT**

Legend


 Bonsmara PV Application Site


Proposed Solar PV Facility Components

 Power Stations


 PV Areas


 Substation


 Fencing


 Internal Road Network

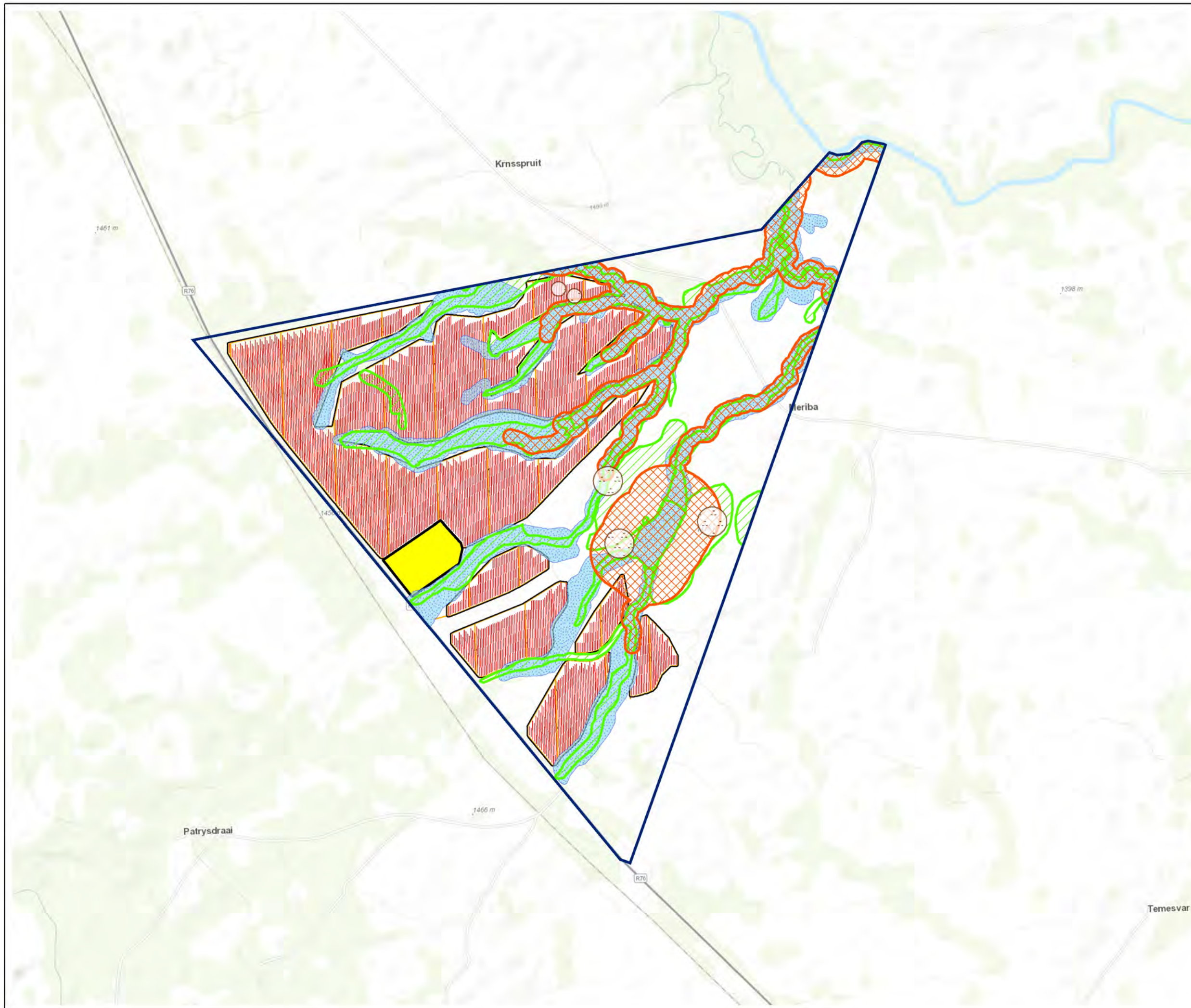
Environmental Sensitivities (No-Go)

 Aquatic Sensitivity

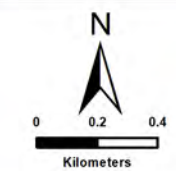
 Avifauna Sensitivity

 Heritage Sensitivity

 Terrestrial Sensitivity



Source:
NGI, 2014
ESKOM, 2012



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