









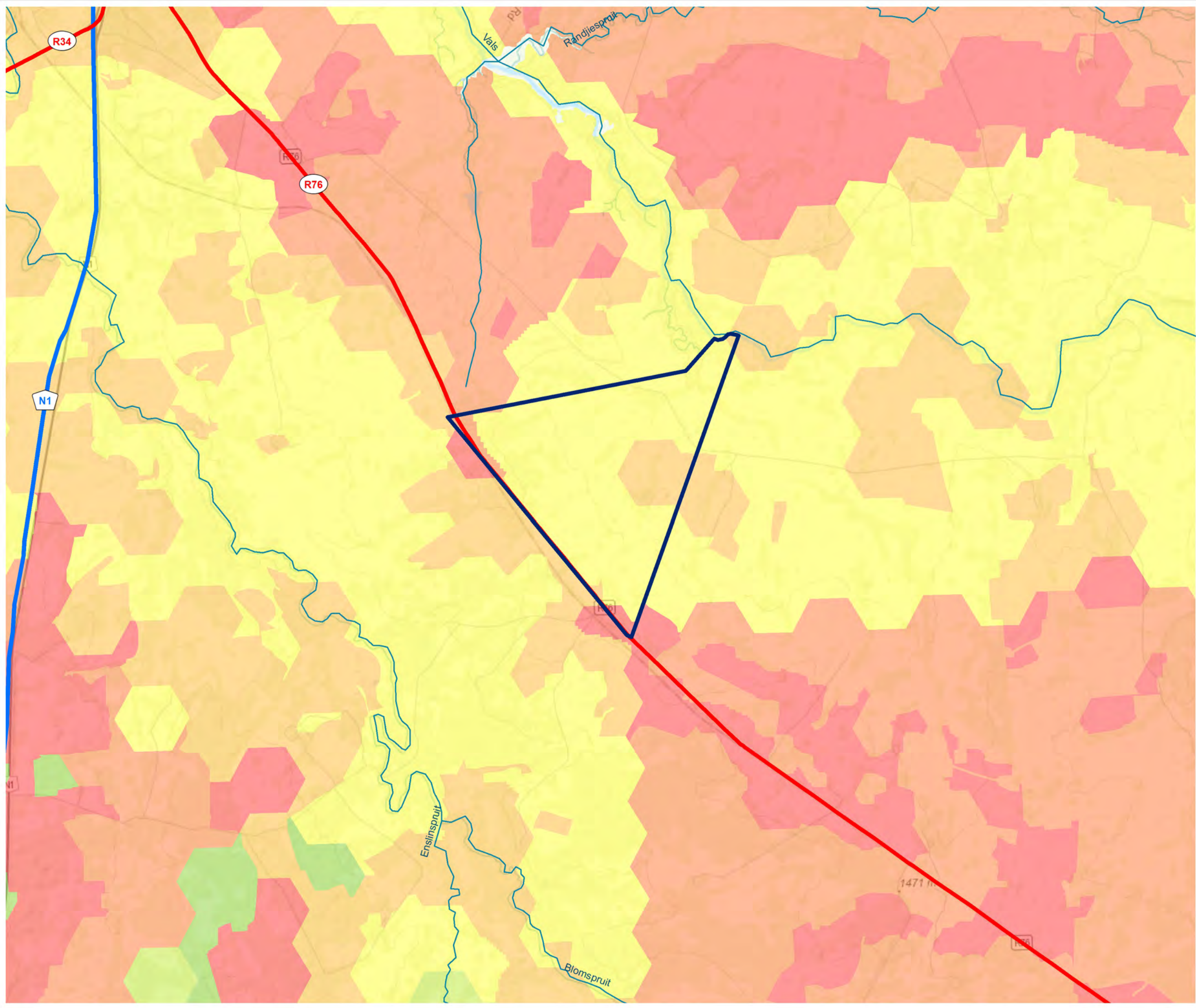
**PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY**  
**NEAR KROONSTAD, FREE STATE PROVINCE**  
**CRITICAL BIODIVERSITY AREAS**

**Legend**

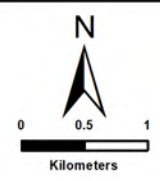
-  National Route
-  Arterial Routes
-  Rivers
-  Bonsmara PV Application Site

**CBA Classification**

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



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

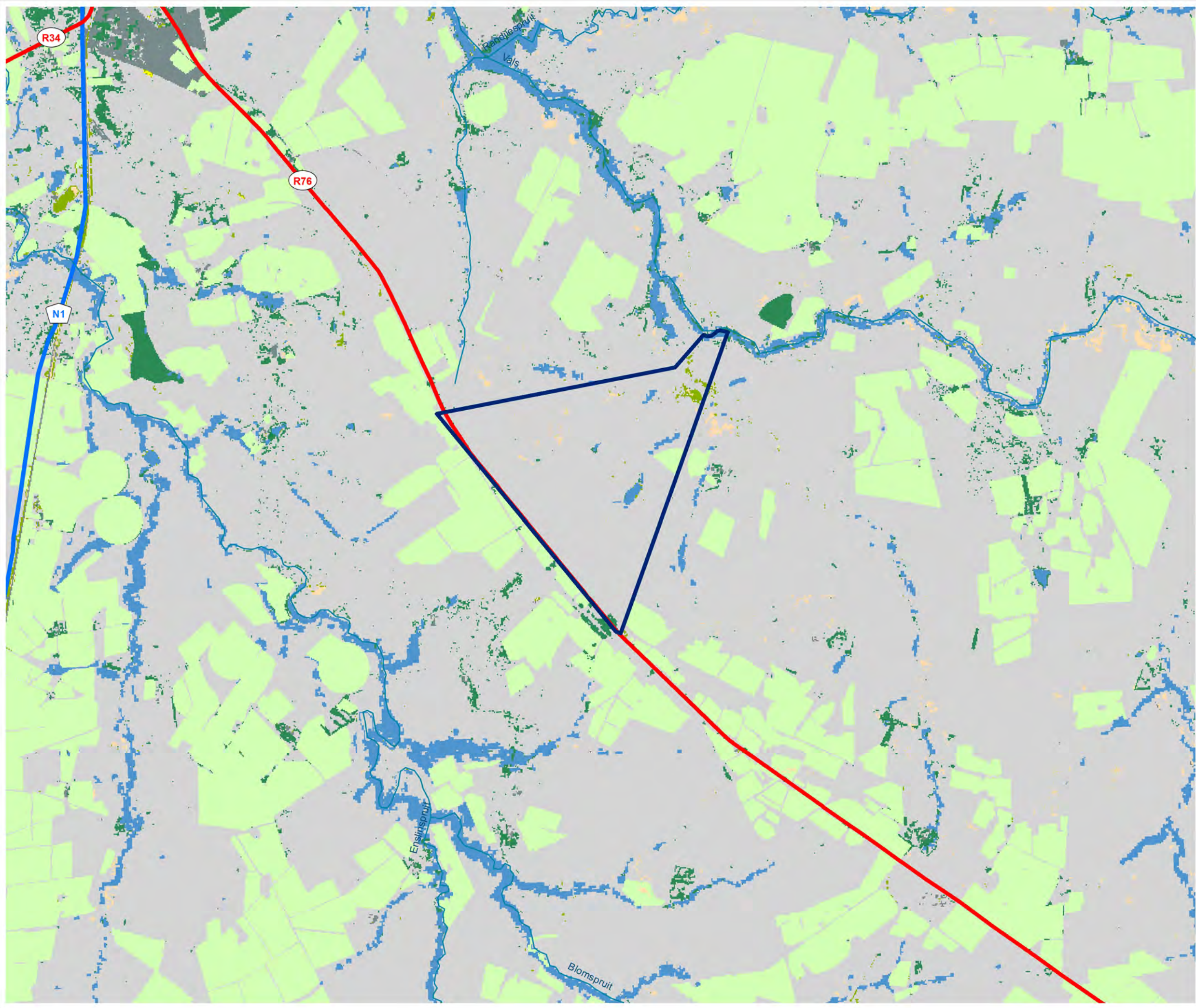


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<b>Project No</b> 17869	<b>Prepared By</b> SB	<b>Date</b> 13/09/2022
<b>Map Ref No</b> 17869	<b>Revision</b> 0	<b>Date</b> _____

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

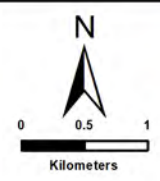
**Legend**

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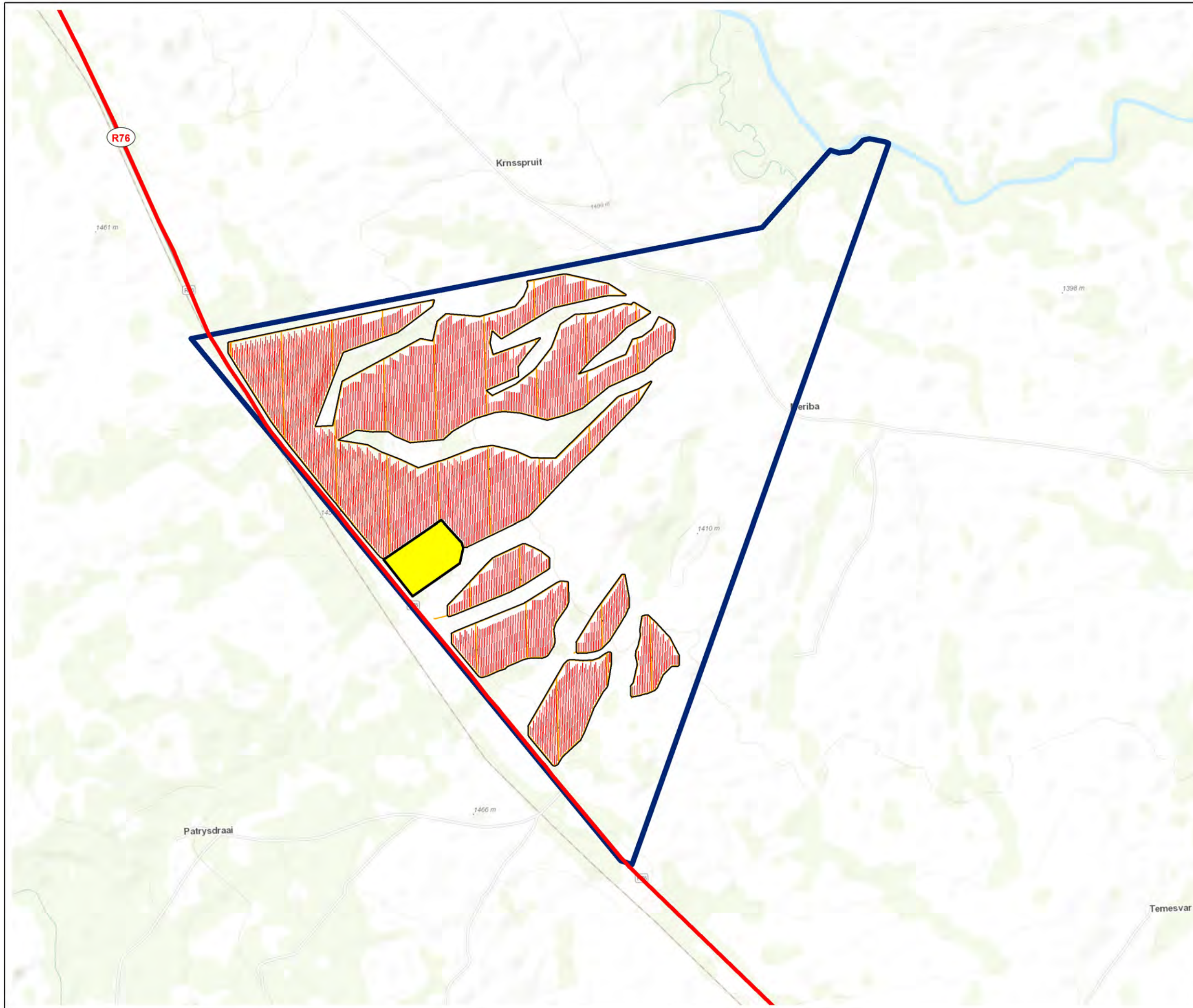
**PROPOSED CONSTRUCTION  
OF THE BONSMARA  
SOLAR PV FACILITY  
NEAR  
KROONSTAD,  
FREE STATE PROVINCE  
PRELIMINARY LAYOUT**

**Legend**

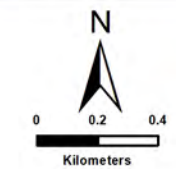
-  Arterial Route
-  Bonsmara PV Application Site

**Proposed Solar PV Facility Components**

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



Source:  
NGI, 2014  
ESKOM, 2012

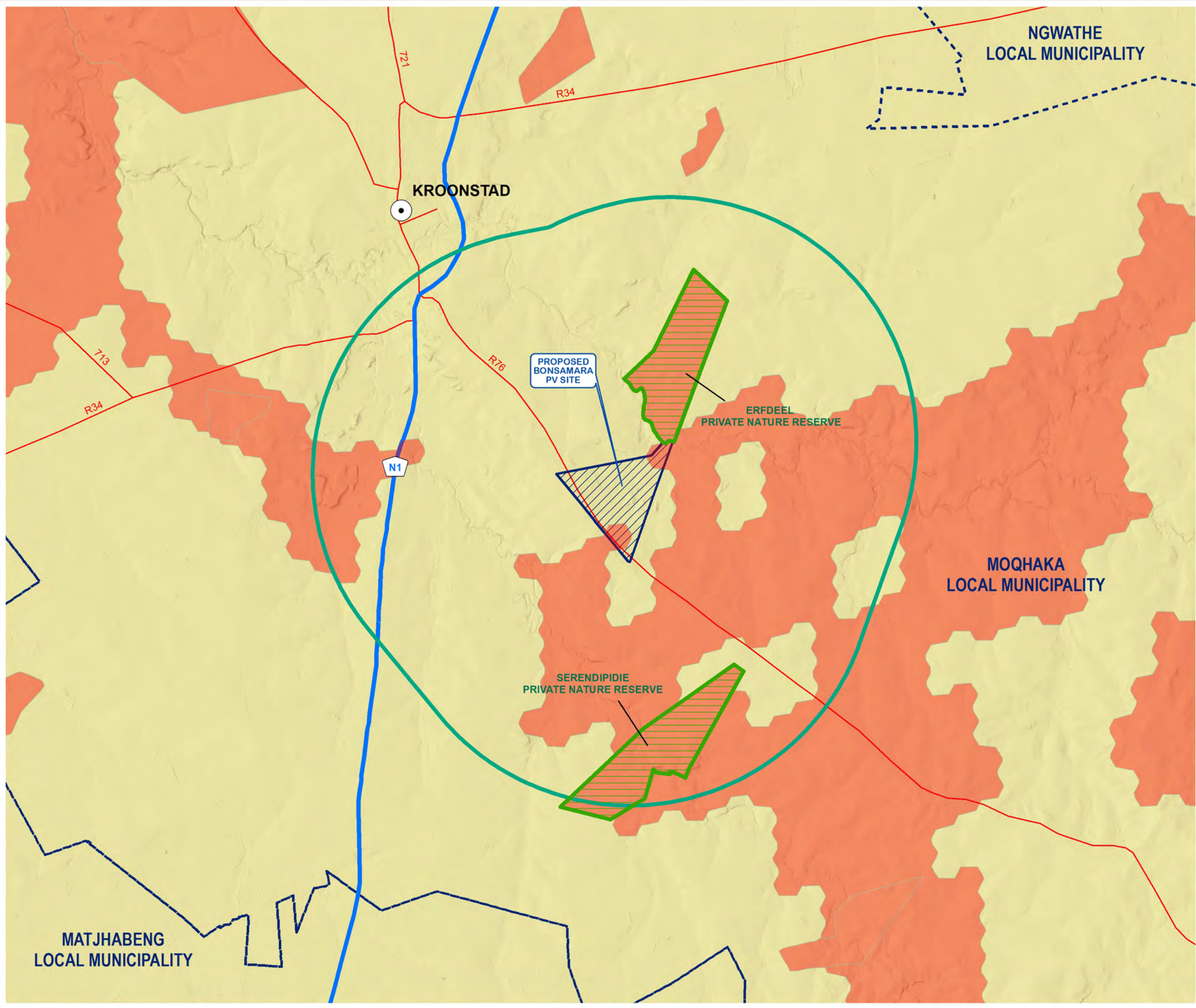


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**PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY**  
**NEAR KROONSTAD, FREE STATE PROVINCE**  
**PROTECTED AREAS**

**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

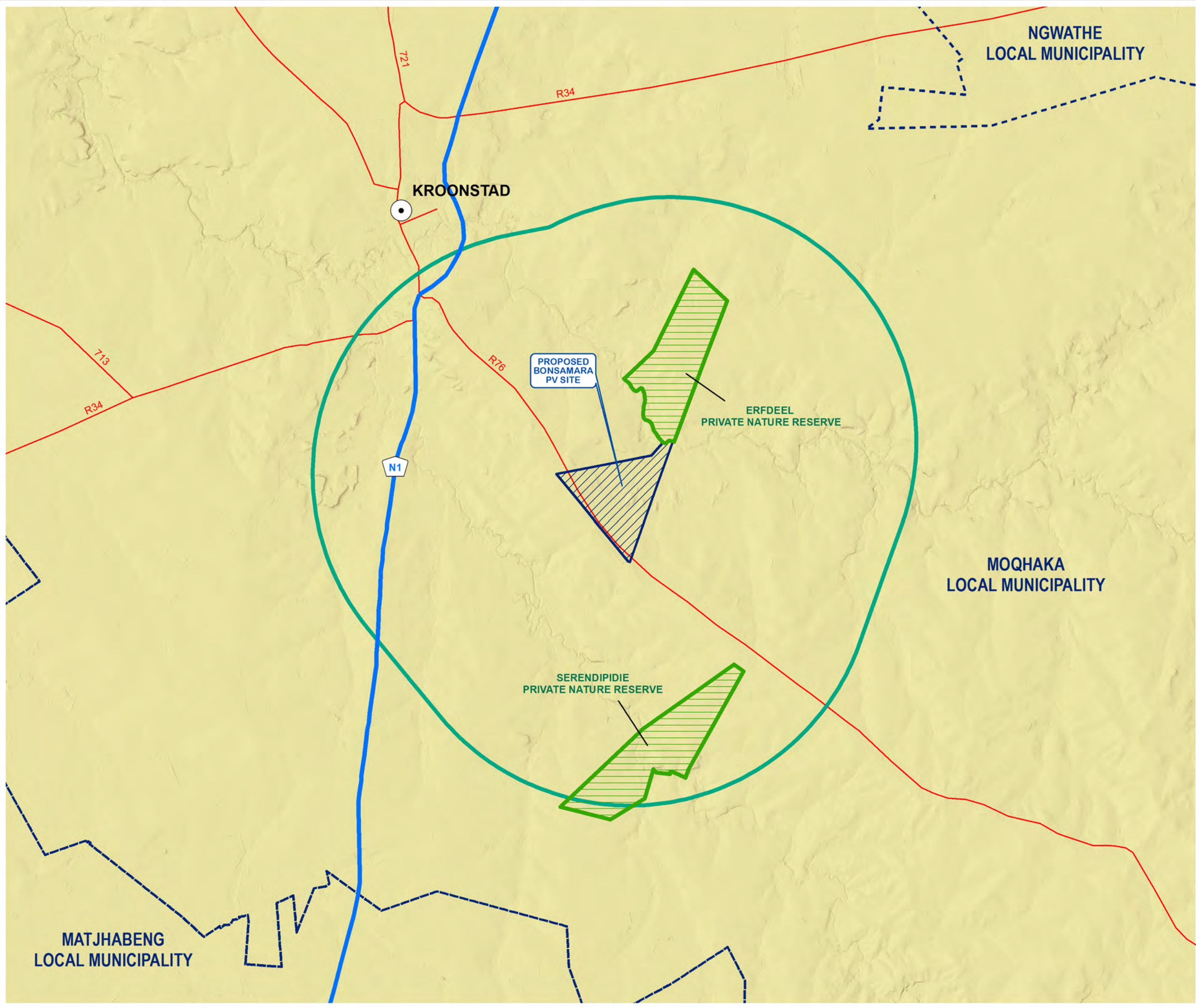


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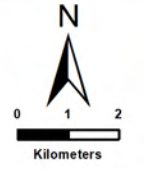


**PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY**  
**NEAR KROONSTAD, FREE STATE PROVINCE**  
**PROTECTED AREAS**

**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

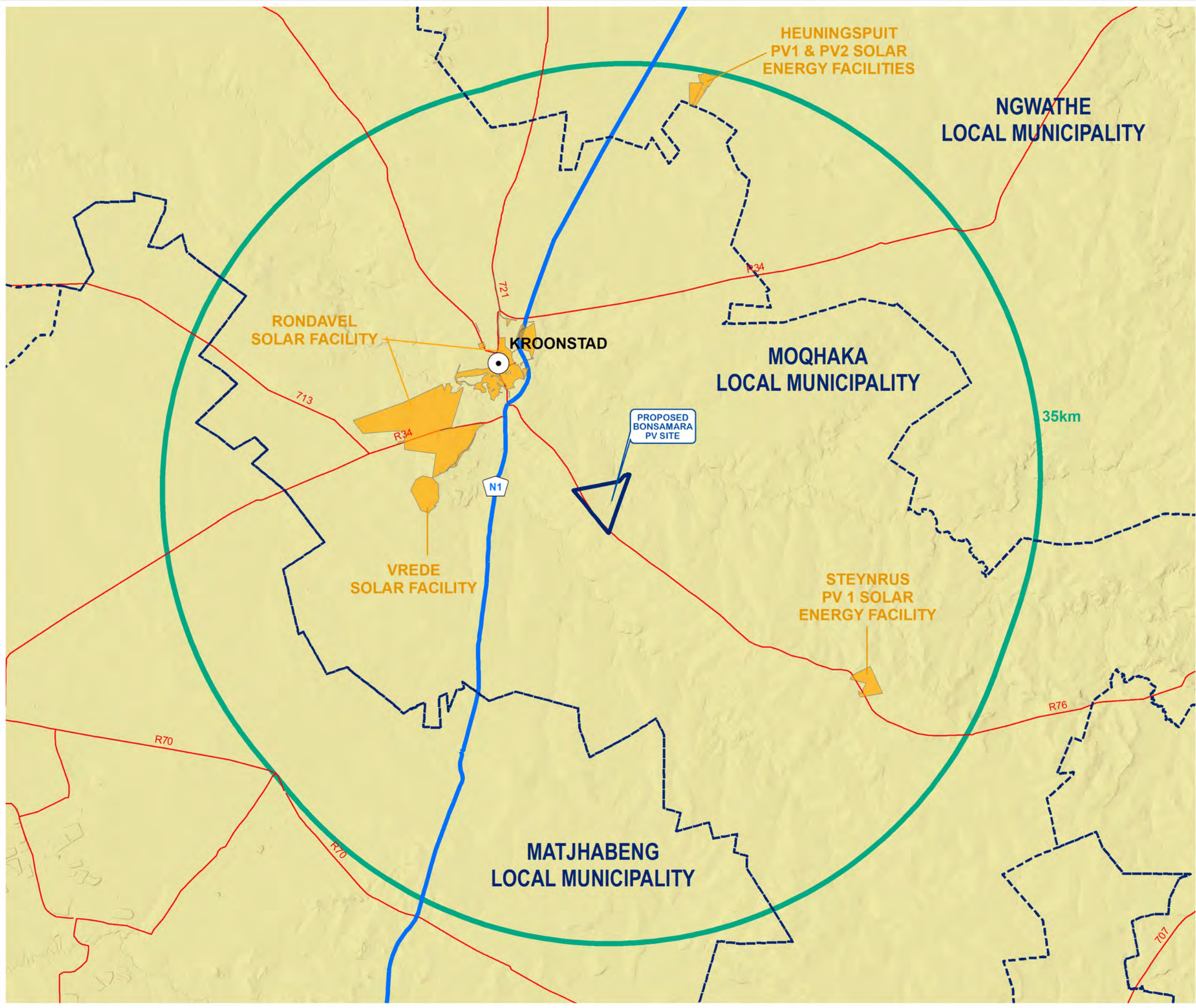


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**PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY**  
**NEAR KROONSTAD, FREE STATE PROVINCE**  
**RENEWABLE ENERGY PROJECTS (EXISTING AND PROPOSED)**

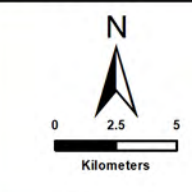
**Legend**

- 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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<b>Map Ref No</b> 17869	<b>Revision</b> 0	<b>Date</b>

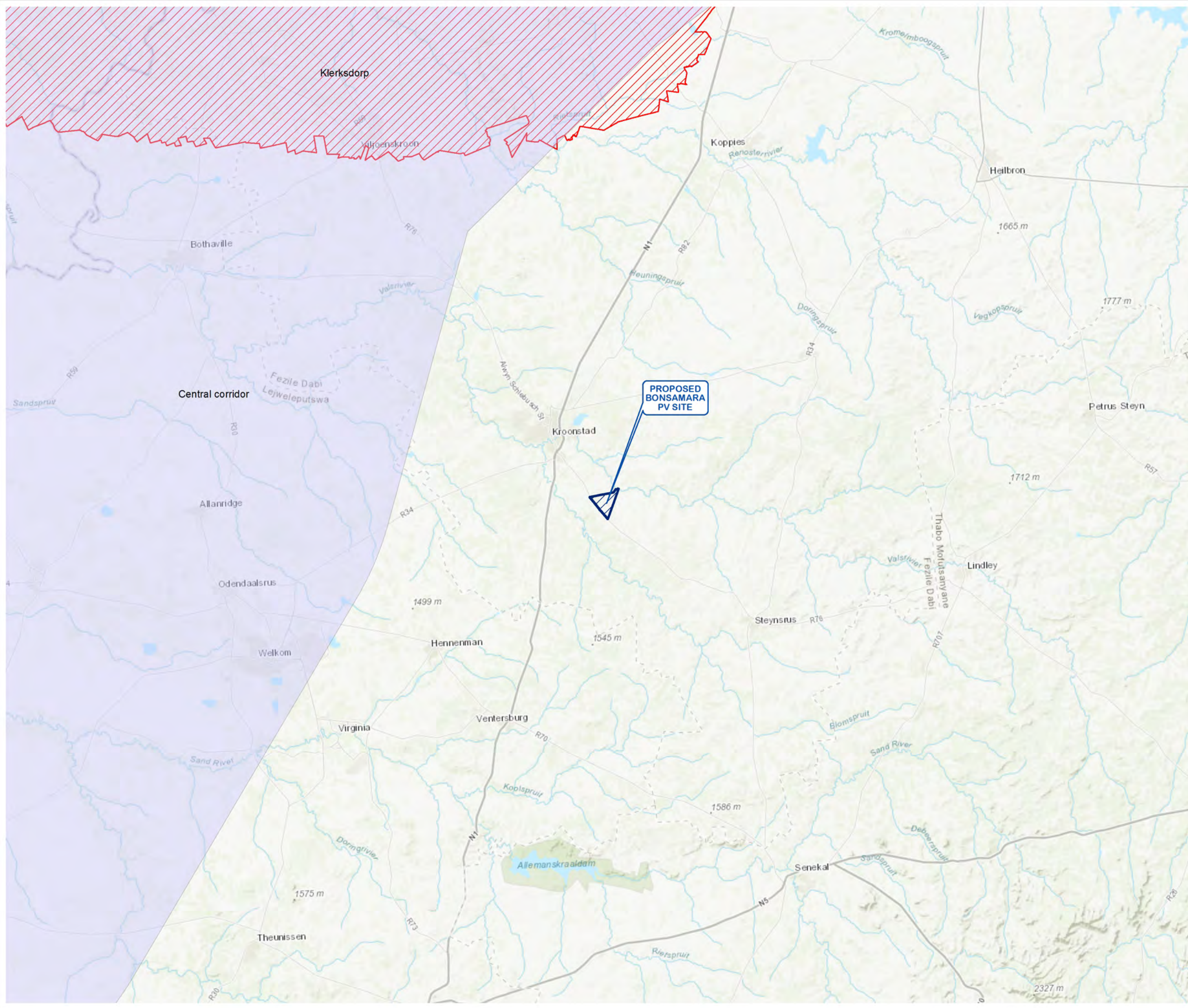
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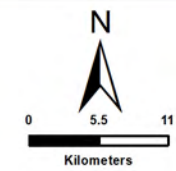
**PROPOSED CONSTRUCTION  
OF THE BONSMARA  
SOLAR PV FACILITY  
NEAR  
KROONSTAD,  
FREE STATE PROVINCE  
REDZ/POWER CORRIDORS**

**Legend**

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



Source:  
NGI, 2014  
DFFE, 2021



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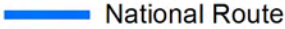
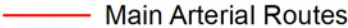
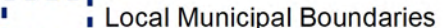
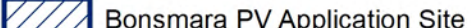
<b>Project No</b> 17869	<b>Prepared By</b> SB	<b>Date</b> 02/09/2022
<b>Map Ref No</b> 17869	<b>Revision</b> 0	<b>Date</b>

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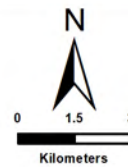
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**PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY**  
**NEAR KROONSTAD, FREE STATE PROVINCE**  
**REGIONAL CONTEXT**

**Legend**

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

Source:  
 NGI, 2014  
 MUNICIPAL DEMARCATION BOARD, 2016

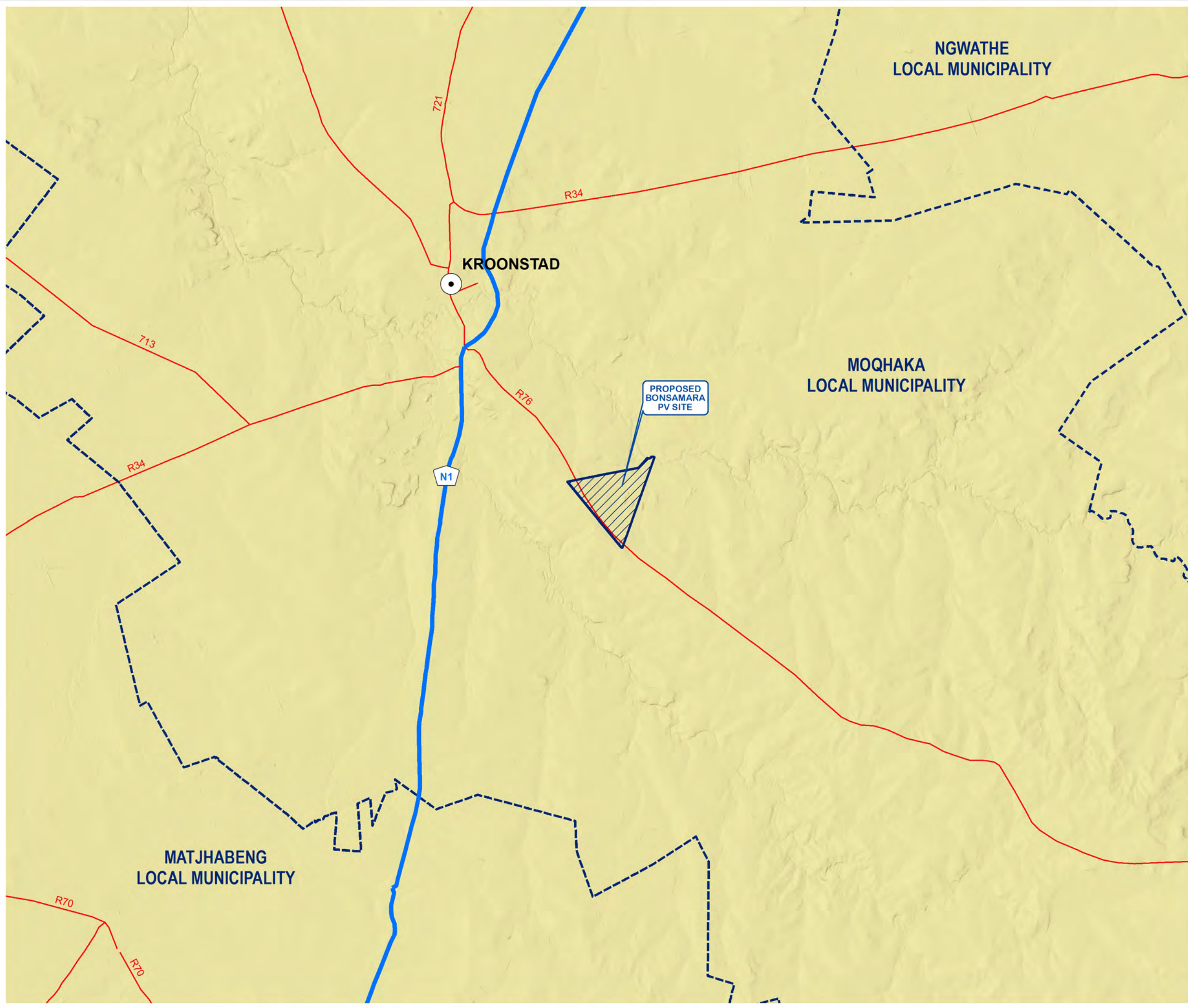


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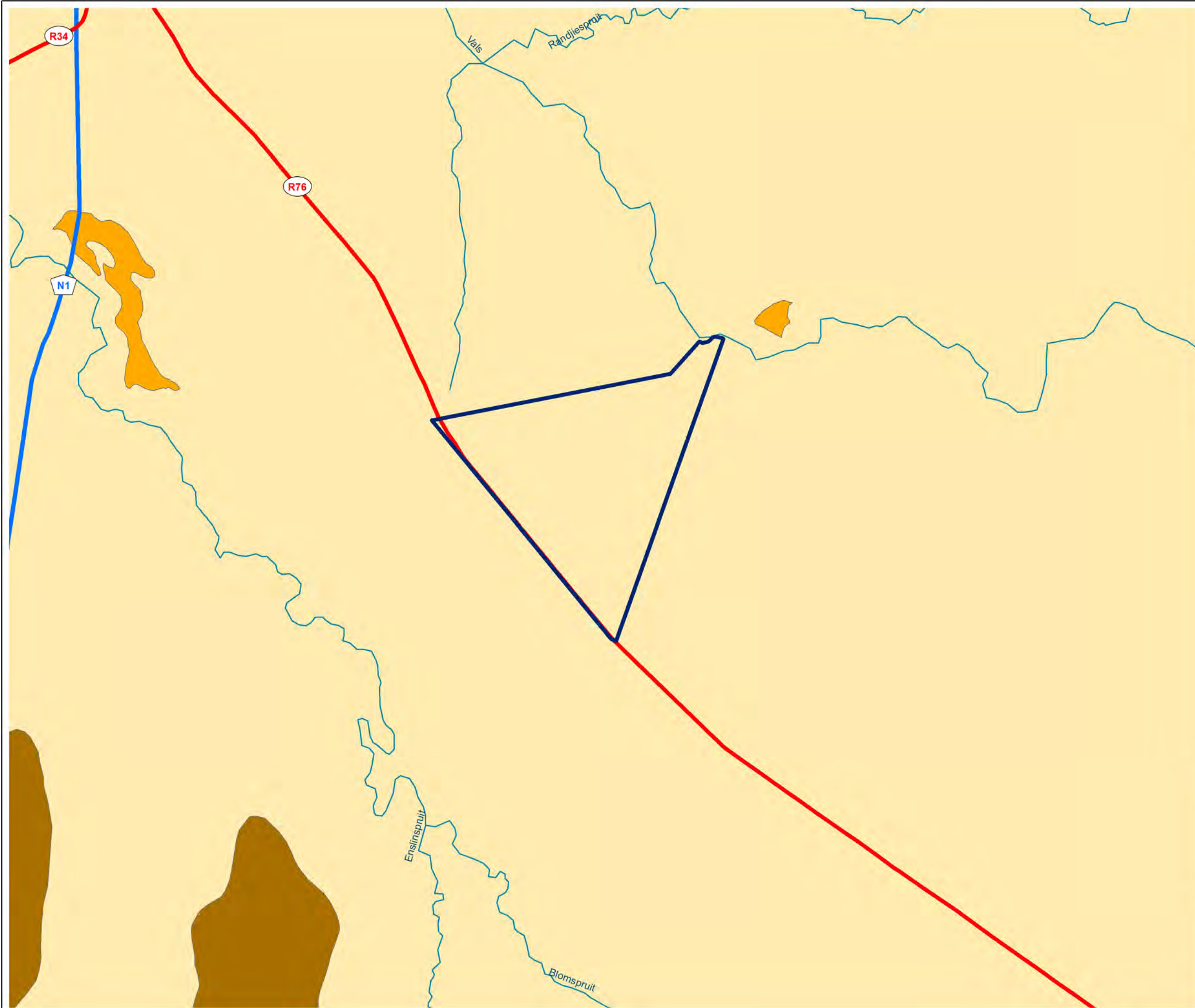
**PROPOSED CONSTRUCTION OF THE BONSMARA SOLAR PV FACILITY**  
**NEAR KROONSTAD, FREE STATE PROVINCE**  
**VEGETATION CLASSIFICATION**

**Legend**

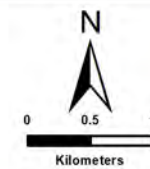
-  National Route
-  Arterial Routes
-  Rivers
-  Bonsmara PV Application Site

**Vegetation Classification**

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



Source:  
 SANBI, 2018  
 NFEPA, 2011



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**PROPOSED CONSTRUCTION  
OF THE BONSMARA  
SOLAR PV FACILITY  
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

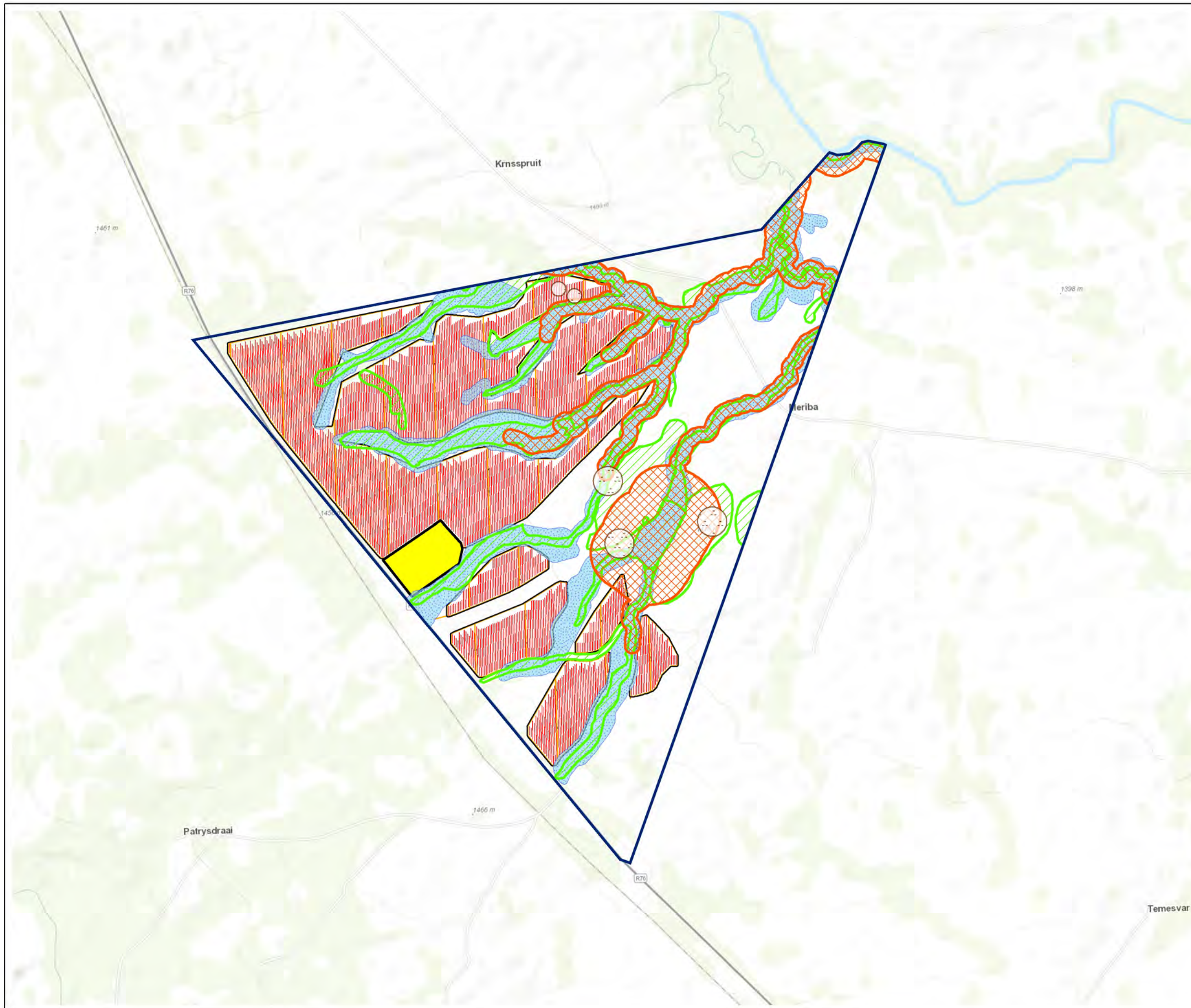
**Environmental Sensitivities (No-Go)**

 Aquatic Sensitivity

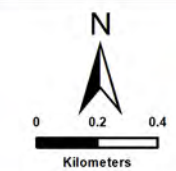
 Avifauna Sensitivity

 Heritage Sensitivity

 Terrestrial Sensitivity



Source:  
NGI, 2014  
ESKOM, 2012



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