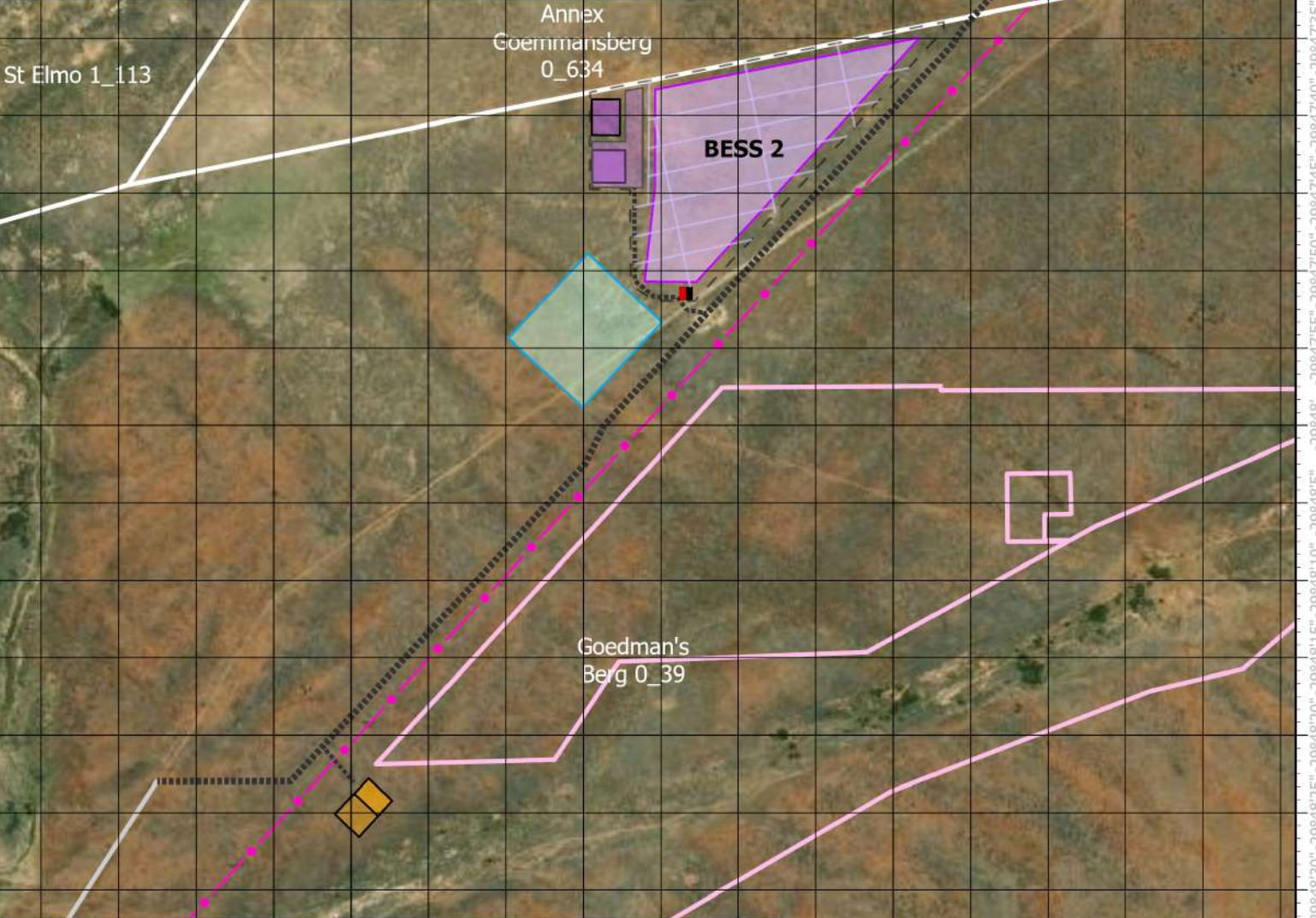


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# Vanderkloof Solar: Project BESS 2 - Site Layout



**Legend for the Facilities**

Battery Energy Storage System (BESS)	Buildings & Laydowns
Solar Areas PV2	BESS, Permanent
On-Site IPP Collector & Switching Station	BESS, Temporary
Vanderkloof Project Farm Portions	BESS/PV, Temp/Perm
Eskom 400kV Powerlines	Internal Roads
BESS Entry and Guard House	existing, through road
Fenced Area	new, primary road
	new, through road
	BESS internal roads

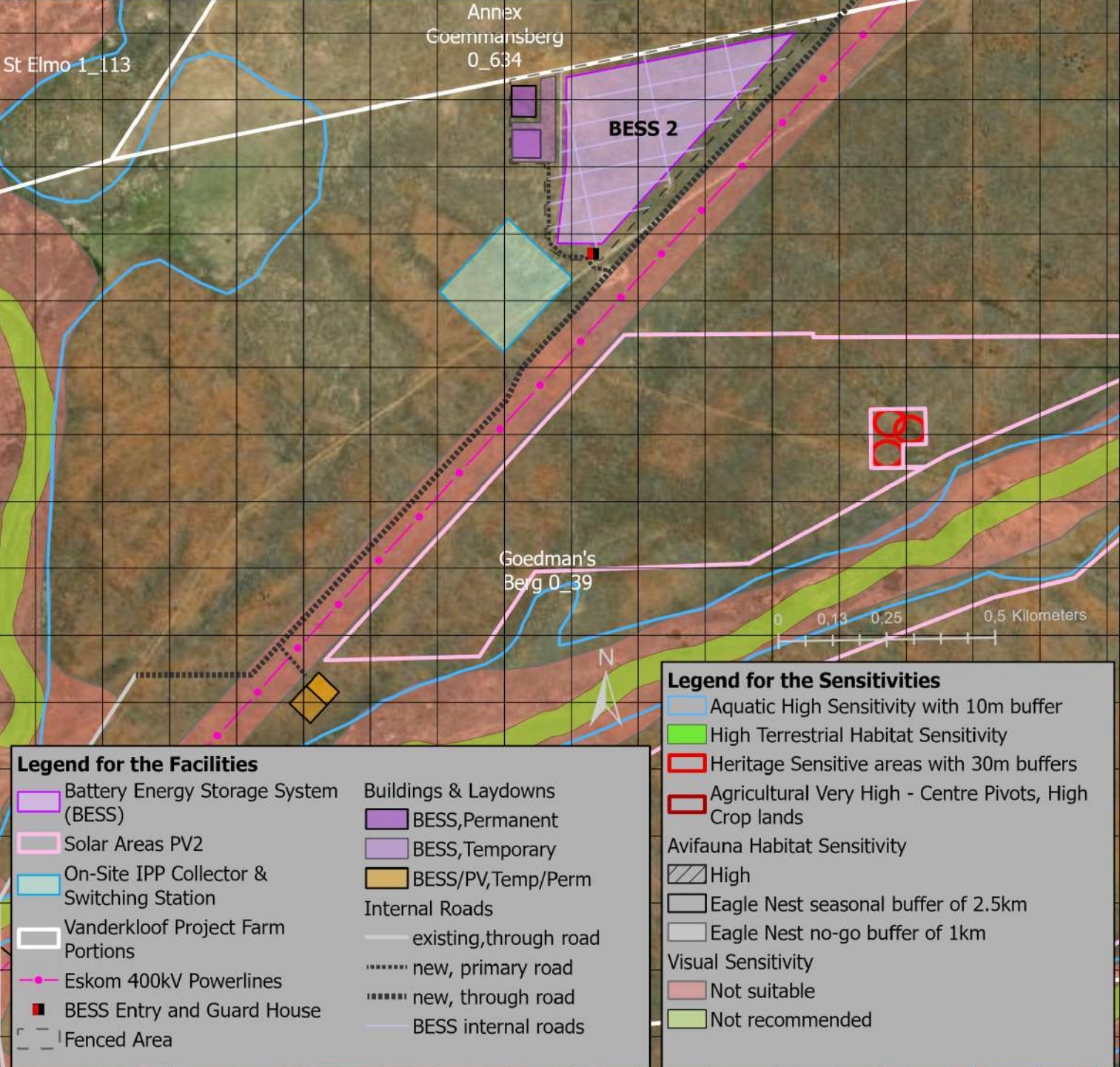


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### Legend for the Sensitivities

Aquatic High Sensitivity with 10m buffer
High Terrestrial Habitat Sensitivity
Heritage Sensitive areas with 30m buffers
Agricultural Very High - Centre Pivots, High Crop lands
Avifauna Habitat Sensitivity
High
Eagle Nest seasonal buffer of 2.5km
Eagle Nest no-go buffer of 1km
Visual Sensitivity
Not suitable
Not recommended

Troostenberg 0\_253 Maxar

24°46'30" 24°46'35" 24°46'40" 24°46'45" 24°46'50" 24°46'55" 24°47' 24°47'5" 24°47'10" 24°47'15" 24°47'20" 24°47'25" 24°47'30" 24°47'35" 24°47'40" 24°47'45" 24°47'50"

## NOTES

<p>All areas outside defined development areas (fenced areas) are considered no-go areas for construction, apart from linking, linear structures, like roads and the EGI. The EGI will be applied for and assessed as part of a separate environmental application.</p>
<p>Internal roads of 4.5 m wide, will be restricted to development areas, or inter-connect PV footprints and other project facilities. Primary roads will have a width of 8m and give heavy-vehicle access to each laydown and the site buildings.</p>
<p>MV cabling to be installed underground within development areas or, where possible, follow roads indicated as “(wide)”. Note that these “wide” roads are still 4.5 wide roads but have a reserved total width of 20m to allow trenching for cable routes. The trenching is for up to 33kV cables and no deeper than 1 meter and about 30cm wide with topsoil re-instatement. Two watercourse crossings will possibly need conduit for cabling, cables will cross watercourses where the road crossing occurs</p>
<p>DC cabling will be installed underground within development areas or attached to PV structures.</p>
<p>Inverters/Transformers and mini-substations are to be distributed within the development areas.</p>
<p>Building footprints include space for Offices, Operations Control Room, Workshops, each with parking and ablutions.</p>
<p>Laydown footprints show temporary larger footprints, which will be reduced to the smaller permanent footprints after construction.</p>
<p>Guard House points will be entry gates and have guard houses up to 200m<sup>2</sup> and include parking and ablutions at each.</p>
<p>Accommodation footprints will be larger during construction and a part will remain permanently for operations phase on-site accommodation. Accommodations will be shared for the PV and BESS projects.</p>
<p>These footprints include parking and ablutions.</p>
<p><u>Watercourse crossings.</u></p> <ul style="list-style-type: none"> <li>- Access roads bridges. There are two existing narrow bridges on public road S129 that will need upgrading or a second, temporary low level crossing with culverts for construction phase heavy vehicles.</li> <li>- Existing farm access, private road from RAP 1 to PV and BESS projects 1, 2, and 5-1 may need a low level crossing for trucks, in case of rain.</li> <li>- Internal new 4.5m wide road from PV2-1 to PV2-2 and PV5-1- to PV5-1</li> </ul>
<p>Fences/Development areas are outside of highly sensitive areas and the PV or buildings are set back 7m from fence lines. Along fence lines, in the 7m gap there will be perimeter 4.5m wide roads. The fence and road can serve as firebreaks. The position and width of firebreaks will be determined as part of the detailed design of the facility</p>
<p>The IPP side of the Collector/Switching On-site Substations are within the fence of each project (note that this demarcation is approximate and will be subject to Eskom’s requirements)</p>