## R1011 - Inyanda Roodeplaat Wind Farm, near Uitenhage, Eastern Cape SUMMARY FOR SITE DEVELOPMENT PLAN : Site Specific Areas to be developed (rev 2)

Date : 29 March 2016



SUMMARY FOR SITE DEVELOPMENT PLAN : Site Specific Areas to be developed (rev 2)					Date : 29 March 2016	A F R I C O A S T CONSULTING ENGINEERS
Description	<b>Latitude</b> (South)	Longitude (East)	Approximate Footprint Areas (ha)	Road Access to Development Areas	Status	Description of Impact of Development
				FARM ADOLPHSKRAAL RE/246	-	
Prov Road Access Point No.1	33°32'32.54"S	25°07'11.26"E	N/A	From Prov Main Road MR407	Existing / To be Upgraded / Permanent	Main entrance roads to Wind Farm. Existing farm fences to be moved and re-erected. Road turning radii to be enlarged to 45m. Minor vegetation to be removed - expect top soil stripping & minor earthworks.
Prov Road Access Point No.2	33°31'38.78"S	25°04'03.89"E	N/A	From Prov Main Road MR407	Existing / To be Upgraded / Permanent	
Access Road to existing Offices & Stores / Future WF Control Room	33°31'39.19"S	25°03'31.74"E	N/A	From Prov Main Road MR407	Existing / To be Upgraded / Permanent	Entrance to Office Buildings. Entrance to be upgraded with "Control Access" point. Limited roa- widening required. Minor vegetation & topsoil removal required.
Existing Buildings to be used as Offices (incl ablution & kitchen), Control Room, Stores and Workshop	33°31'38.04"S	25°03'36.81"E	2.0	From existing Farm Road (to be upgraded)	Some Existing Buildings / More buildings to be build / all will remain Permanent	Existing gravel path to Existing Buildings to be upgraded, based on same alignment. Limited road widening required. Minor vegetation & Topsoil removal required. Existing buildings (office & storage = approx 360m <sup>2</sup> ). New Control Room = 150m <sup>2</sup> required. New Storage & Workshops = 400m <sup>2</sup> required.
Farm Manager's House & Yard	33°31'44.41"S	25°04'02.34"E	0.15	From Prov Minor Road MN50474	Existing / No Upgrade needed / Permanent	No changes / upgrades required. No impact.
Turbine Site Laydown Area	33°31'54.76"S	25°03'51.06"E	16.0	Adjacent to Provincial Minor Road MN50474	New / Temporary (no permanent infrastructure exist or will remain)	Temporary Area where turbine components can be stored after import from harbour, (allow for truck and crane movements), prior to erection stage. Topsoil to be removed from <u>selected areas</u> , stockpiled and maintained for rehabilitation after construction. <u>Selected areas</u> to be ripped and compacted to form relative flat working areas.
New Construction Site (Plant, Storage and Concrete batching)	33°31'19.85"S	25° 3'38.81"E	12.0	From existing Farm Road (to be upgraded)	New / Temporary (no permanent infrastructure exist, nor will remain)	<u>Temporary Area</u> for all construction plant, equipment and material storage during construction stage. A <u>temporary concrete batching plant</u> can be erected in this area for off-site mixing, before transport concrete to site for turbine foundations. <u>Staff accommodation</u> (sleeping, ablution & kitchen will also be provided in this area for duration of
New Camp Site (Staff Accommodation)	33°31'25.28"S	25° 3'51.51"E	6.0	From existing Farm Road (to be upgraded)	Some buildings exist and will be upgraded and used - to remain permanent. Additional Temporary structures will be erected (will not remain)	construction (eg. containerised accommodation, with ablution facilities), will be required for appro 200 workers at peak periods. Topsoil to be removed from selected areas, stockpiled and maintained for <u>rehabilitation after construction</u> . <u>Selected areas</u> to be ripped and compacted to forr relative flat working areas.
New Borehole : BH1	33°31'33.44"S	25° 3'33.60"E	N/A	From field tracks (no need to upgrade)	New / Permanent	A new borehole has to be drilled. Position may changed sightly based on Geo-hydro study of wate aquifer. Water damand is approx 3,51/s (200kl/day @ 16h pump time). Water will be pumped to a 300kl elevated steel water tower (eg 10x10x3m) to be erected near the Construction Camp Site area.
			FARI	M WILDEPAARDEHOEK 245 (PORTION	1)	
Main Farm House	33°33'46.13"S	25°03'40.40"E	1.62	From Prov Minor Road MN50474	Existing / Permanent	No changes required. No impact.
			J	FARM ZWARTBOSCHPLAAT RE/278		1
Existing 80m Wind Monitoring Mast 1	33°34'56.13"S	25°03'49.13"E	N/A	From Prov Minor Road MN50475	Existing / To be removed after Wind Farm Commissioning	Existing Infrastructure - no further upgrade required / no impact.
Existing 60m Wind Monitoring Mast 2	33°35'44.90"S	25°03'38.50"E	N/A	From Prov Minor Road MN50475		Existing Infrastructure - no further upgrade required / no impact.
			FAR	M ZWARTBOSCHPLAAT 278 (PORTION	12)	
xisting Houses for Site Managers	33°36'30.86"S	25°03'20.21"E	0.4	From existing Farm Road	To be upgraded / Permanent	Old deteriorated buildings to be upgraded for Site Managers accommodation, for duration of construction.
				FARM WILDEPAARDEHOEK RE/245		
Existing Borrow Pit next to Prov Road MN50474	33°33'51.17"S	25° 6'18.82"E	0.25	From Prov Minor Road MN50474	To be expanded / Permanent	Existing open and easily accessible small Borrow I with good road gravel material. Not licenced, hence new DRM Application required for licencin and registration, in order to expand and use grav material for road construction purposes.