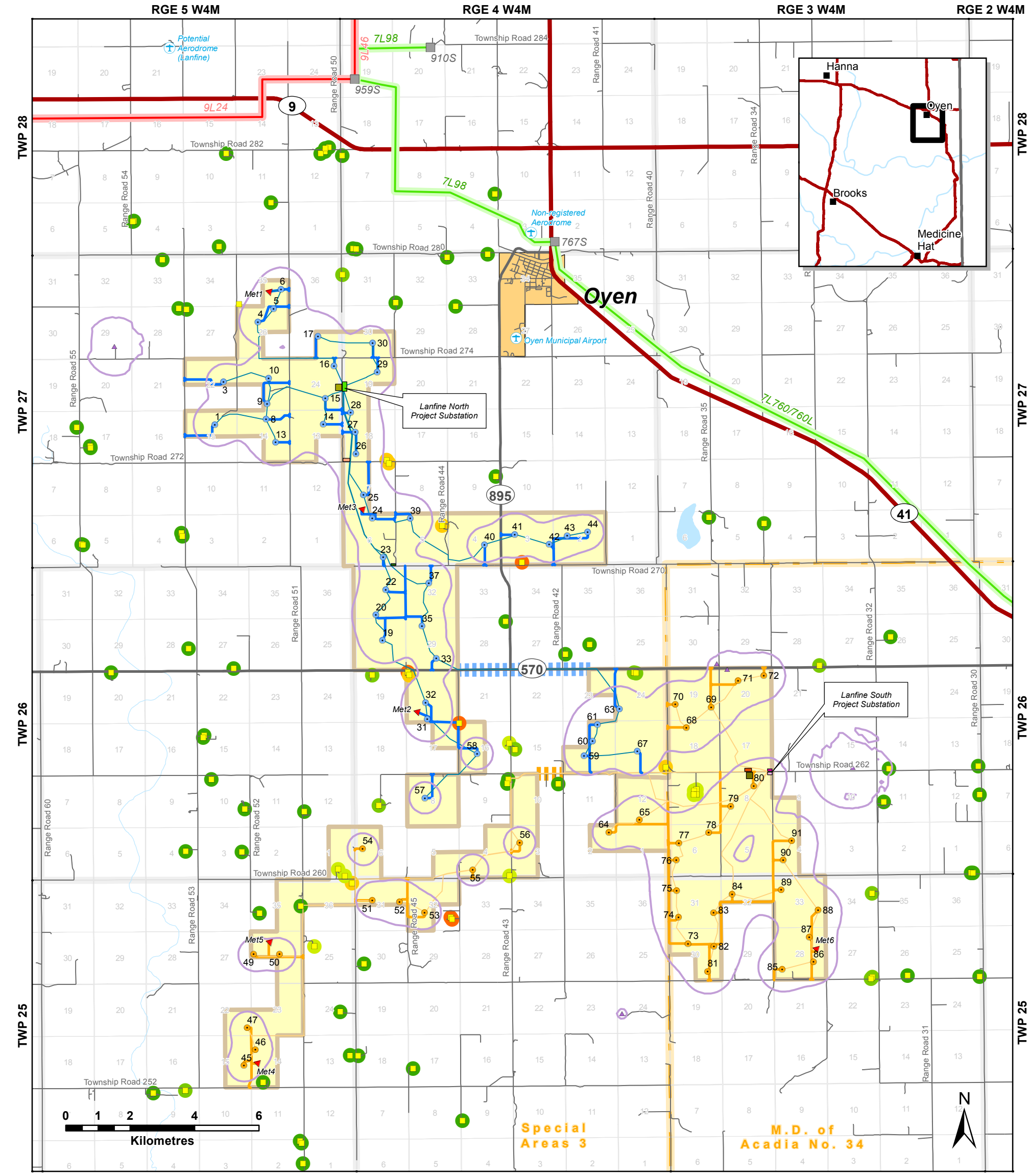


BowArk

Pattern Development

Lanfine North and Lanfine South Wind Power Projects

Proposed Project Map
Vestas

Date: 11 Dec 2018
Version: 10

Prepared By: WSP Canada Inc.
Author: J. McRae
Reviewed: A. Louro
Approved: R. Istchenko

Notes and Data Sources:
Project Land provided by BowArk. Buildable Area derived by WSP. Turbine layout and proposed infrastructure provided by BowArk. Populated places, roads, Alberta Township System, and municipal boundaries from AltaLIS, licensed under the Open Government Licence – Alberta. Existing transmission lines and substations derived by WSP based on AESO AIES map provided by BowArk. Shadow flicker estimates and sound level contours based on Vestas 3.6 MW turbine with rotor diameter of 136 m and hub height of 105 m using 79 turbine locations. Sound level contours and third-party sound sources provided by RWDI. Airstrips and aerodromes derived by WSP.

Coordinate System: NAD 1983 UTM Zone 12N
Scale: 1:120,000 when printed at 11" × 17"

- Project Land
- Proposed Permanent Meteorological Tower
- Residence
- Existing ATCO Substation
- Existing Transmission Line (240 kV)
- Existing Transmission Line (138 kV)

- Major Highway
- Minor Highway
- Road
- City, Town or Village
- Airstrip or Aerodrome
- Municipal District and County Boundary
- Waterbody

- Township Line
- Section Line

Shadow Flicker Hours Per Year (Corrected Case)

- 0 hours
- Between 0 and 4 hours
- Between 4 and 8 hours
- Between 8 and 12 hours
- Between 12 and 16 hours
- Between 16 and 20 hours
- Third-party Energy Facility Sound Source
- Sound Level (38.3 dBA)

Lanfine North

- Proposed Turbine Locations
- Proposed Underground Collector Line
- Proposed Road
- Proposed Laydown
- Proposed Batch Plant
- Proposed Collector Right-of-Way (Underground or Above Ground)
- Potential O&M Yard and Building Location
- Proposed Substation

Lanfine South

- Proposed Turbine Locations
- Proposed Underground Collector Line
- Proposed Road
- Proposed Laydown
- Proposed Batch Plant
- Proposed Collector Right-of-Way (Underground or Above Ground)
- Proposed Substation
- Potential O&M Yard and Building Location

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