

Before the Hearings Commissioners
at Palmerston North

in the matter of: Notices of Requirement by the New Zealand Transport Agency under section 168 of the RMA for the construction, operation, maintenance and improvement of approximately 11.5km of new State Highway between Ashurst and Woodville to replace the closed section of State Highway 3 through the Manawatu Gorge and associated works, known as the Te Ahu a Turanga Manawatu Tararua Highway Project ('the Project')

to: Palmerston North City Council
Manawatu District Council
Tararua District Council

applicant: New Zealand Transport Agency

submitter: Meridian Energy Limited

Summary of Evidence by Tony Glenn Keyte on behalf of
Meridian Energy Limited

Date: 28 March 2019

Summary

1. This summary should be heard in conjunction with that of Paul Botha, Chris Jones; and Lindsay Daysh and is in support of Meridian Energy's submission.
2. My experience and qualifications are listed at paragraphs 1- 4 in my Statement of Evidence dated 15 March 2019.
3. My evidence covered the Operational requirements of the wind farm roading network and the Civil engineering impacts and mitigation required because of the NOR.
4. The construction of the highway has the potential to have a significant impact on the on-going operation and maintenance of the wind farm. Additional conditions are proposed that will need special consideration by NZTA's contractor and associated construction methodologies.
5. The conditions I have recommended are intended to provide Meridian with certainty in relation to the effects associated with the proposed highway as the detail is developed in the future. This includes access (both during construction and upon completion of the Highway), roading, stormwater management, design and the facilitation of both day to day maintenance activities and specialised transport requirements.
6. I have recommended that:
 - the access at Sta 5850m be removed and the internal access road used to access TAP1 and 2. In addition to the westbound access at Sta 8320m, a new access is needed at Sta 8320 eastbound to access TAP23. Both of these accesses must provide adequate widening and manoeuvring off the Highway including flexibility to access in either direction through the median.
 - Internal roads and turbine platform access must comply with Meridian's requirements for maintenance, over dimension and overweight vehicles and be presented for Meridian's approval in a "Windfarm Management Plan".
 - The maintenance access underpass be sized 5m high x 6m wide to accommodate farm machinery together with the ability to house cable trays if needed.
 - Temporary access to all turbines for maintenance and over dimension and overweight vehicles be provided at all times during construction. The "enabling works" condition is insufficient to address this need.

- The use of Meridian's land for disposal sites associated with the highway requires specific agreement from Meridian (i.e. in relation to the long-term performance of the disposal material).
 - The 60m contingency zone outside of the 100m consented area (160m total) requires NZTA's specific attention when encroaching within the proximity of an existing turbine to address consent, flexibility and engineering concerns for Meridian.
7. Finally, the Highway design should not restrict windfarm access and should take into consideration the requirements of over dimension and overweight maintenance deliveries. This relates to new bridges, intersections, access and highway furniture.

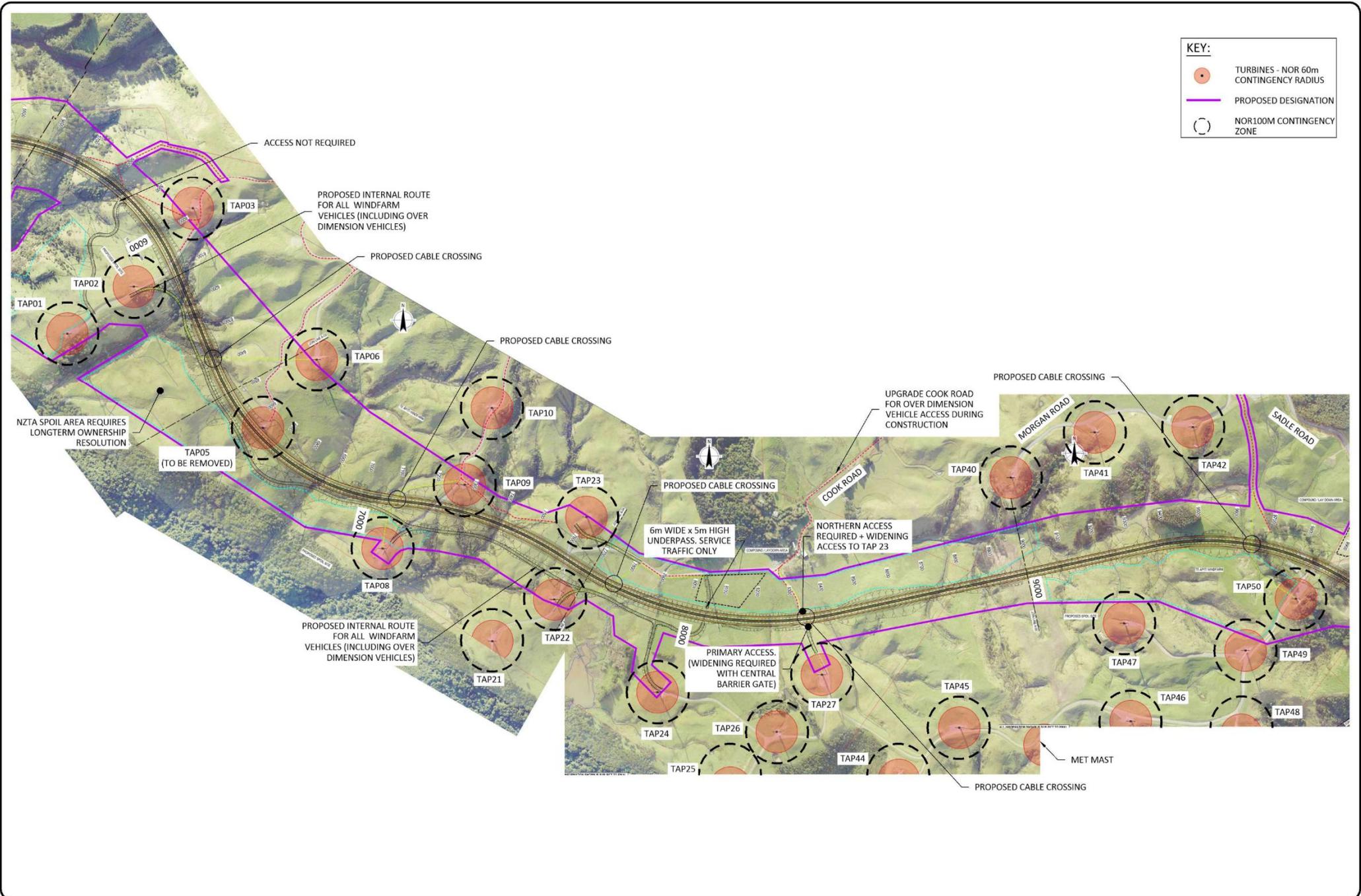
Dated: 28 March 2019

T G Keyte

SCALE FOR VALIDATING SIZE OF AS PLOT ONLY

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K:\145040 Te Ahiu Access\Drawings\FIGURE1.dwg 15/02/2019 3:33 PM Merian



KEY:

- TURBINES - NOR 60m CONTINGENCY RADIUS
- PROPOSED DESIGNATION
- NOR100M CONTINGENCY ZONE

DESIGNED	CHECKED	DATE	BY	CHK	APPV
-	-	14.03.2019	AA	TK	
DRAWN	APPROVED				
A 14.03.2019 FOR INFORMATION DATE ISSUE/REVISION DETAIL AA TK BY CHK APPV					

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meridian

PROJECT
**TE APITI WINDFARM
MANAWATU HIGHWAY NOR**

DRAWING
MEL SUBMISSIONS PLAN

STATUS
PRELIMINARY

DATE
14.03.2019

SCALE (ORIGINAL SIZE AS)
NTS

DRAWING NUMBER
FIGURE1

REVISION
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