



APPENDIX D SCHEDULE OF WORKS FOR ROAD UPGRADES

BOWMANS CREEK **WIND FARM** Response to Additional Information Request Our Ref: 80020015 Contact: Hayden Calvey

9 December 2021

James Bailey & Associates

Attention: James Bailey

Dear James,

BOWMANS CREEK WINDFARM SCHEDULE OF WORKS FOR OSOM ROUTE

It is understood that the Department of Planning, Industry and Environment (DPIE) have requested a schedule of works that details the relevant roads / intersections, location of works, indicative scope of work and proposed timing of the works with regard to the Bowmans Creek Wind Farm.

Reference is made to the Traffic and Transport Impact Assessment (TTIA) for the Bowmans Creek Windfarm dated 25 February 2021. Appendix C of this document contains a schedule of likely works necessary to facilitate the Over Size Over Mass (OSOM) vehicle route from the Port of Newcastle to the site access points.

In general, the proposed road upgrade commitments and design standards are based on the following assumptions:

- > The proposed design standards and upgrades will only be implemented on the roads or road sections to be actually used for over-mass and over-dimensional construction traffic based on the final wind farm construction layout or staged development construction. Appropriate and adequate safety measures will be agreed with Councils prior to commencement on all access roads, including roads identified for normal light vehicle access only.
- > The proposed road upgrades are based on the current anticipated traffic numbers and proposed access routes for constructing the wind farm. Should the final construction layout and design result in materially different construction traffic numbers or different routes to be considered, the Proponent and the Council will negotiate in good faith appropriate alternative standards in conjunction with appropriate traffic management measures to ensure safe construction activities.
- > The dimensions proposed are subject to on-site assessments to ensure there are no significant impacts on sensitive native vegetation within the road reserves or significant physical constructability constraints. Council and the Proponent will negotiate in good faith to agree on appropriate options to avoid or minimise significant impacts where this will be the case.
- > The proposed upgrades are subject to the roads not being upgraded by council or a 3rd party prior to the
- Bowmans Creek Wind Farm construction. The Proponent, in consultation with the councils, will undertake a final review of road conditions and suitability prior to construction to confirm road conditions and upgrade requirements based on the agreed design standards for each road.
- The Proponent will agree with councils on a suitable method for determining and capturing road conditions before and after upgrades, including how best to undertake any dilapidation report requirements that may be required under the development consent conditions.
- > Any bridge or other structures to be upgraded will be assessed for suitability and upgraded as required to comply with the appropriate standards.
- > These commitments will be reflected in the final Traffic Management Plan which will be developed in consultation with the road authorities prior to the commencement of any construction activities.

The schedule provided in the February 2021 assessment is reproduced below, with additional information in response to the DPI request. The figure point references are in relation to the analysis presented within the February 2021 assessment, Appendix C, and should be read in conjunction with this document.



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Table 1-1 Schedule of Works on Hebden Road and Albano Road OSOM routes

Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
1	Hebden 1			Furniture	Guardrail removed or relocated	Local		
					during turbine delivery	Council,		
		151.0553	-32.4416			Austroads		
1	Hebden 1			Overhang	Load path clearance required,	Local	Y	
					embankment may need to modified	Council,		
		151.0556	-32.4413			Austroads		
2	Hebden 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0617	-32.4395		required (e.g gravel), temporary road.	Austroads		
2	Hebden 1			Property	Vehicle and load path near property,			
		151.0623	-32.4394		may require landowner notification			
2	Hebden 1			Overhang	Load path clearance required, trees			Y
		151.0619	-32.4392		require trimming			
3	Hebden 1			Driver	For wheel path to stick to pavement			
				Instructions	and avoid bridge abutment, truck will			
		151.0605	-32.4358		need to turn later.			
3	Hebden 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0629	-32.4226		required (e.g gravel), temporary road.	Austroads		
4	Hebden 1	151.063	-32.4005	Property	Property boundary unclear			
4	Hebden 1			Pavement	If 3 "Driver Instructions" occur,	Local	Y	
				Widening	pavement widening will need to occur	Council,		
		151.0667	-32.3934			Austroads		
5	Hebden 1			Furniture	Guardrail removed or relocated	Local		
					during turbine delivery	Council,		
		151.0598	-32.3804			Austroads		
6	Hebden 1			Property	Vehicle and load path near property,			
		151.0554	-32.3751	-	may require landowner notification	_		



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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
7	Hebden 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0569	-32.3775		required (e.g gravel), temporary road.	Austroads		
8	Hebden 1			Furniture	Machinery above OSOM height.	Local		
					Guardrail either side and close to	Council,		
		454 057	22 2774		edge of pavement and would require	Austroads		
		151.057	-32.3771	.	relocation or removal			
9	Hebden 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
			22.2765	Widening	sub base as per OSOM Standard	Council,		
10	Route 1	151.0557	-32.3765	Furniture	required (e.g gravel), temporary road.	Austroads		
10	(Hebden)			Furniture	A tension line supporting the power pole is potentially within the OSOM			
	(Hebuell)				height, this will require a survey to			
		151.0487	-32.3693		confirm			
11	Route 1	151.0487	-52.5055	Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
	(nebuch)	151.0486	-32.3683	Wideling	required (e.g gravel), temporary road.	Austroads		
11	Route 1		01.0000	Property	Vehicle and load path on property,	Local		
	(Hebden)				landowner notification required.	Council,		
	. ,				Vehicle could turn later to avoid	Austroads		
					property; however, this would require			
					widening on the righthand side of the			
		151.0442	-32.3586		road			
12	Route 1			Furniture	Potential impacts to guardrail.	Local		
	(Hebden)				Guardrail (on both sides of the bridge)	Council,		
		151.0441	-32.3579		removal or relocation required	Austroads		
12	Route 1			Overhang	Load path clearance required			
	(Hebden)	151.0434	-32.3567					
13	Route 1			Stuctural	The structural capacity of the bridge	Local		
	(Hebden)			Design	in terms of weight is required.	Council,		
		151.0475	-32.3478			Austroads		

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
14	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.0463	-32.3471		required (e.g gravel), temporary road.	Austroads		
14.5	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.0457	-32.3462		required (e.g gravel), temporary road.	Austroads		
15	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.0631	-32.3827		required (e.g gravel), temporary road.	Austroads		
16	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.0637	-32.3815		required (e.g gravel), temporary road.	Austroads		
17	Route 1			Property	Vehicle and load path near property,			
	(Hebden)	151.0645	-32.38		may require landowner notification			
17	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.0677	-32.3755		required (e.g gravel), temporary road.	Austroads		
18	Route 1			Overhang	Trees require trimming for load path			Y
	(Hebden)	151.0714	-32.3735					
19	Route 1			Overhang	load path clearance required. Land	Local	Y	
	(Hebden)				slopes upward and fence is higher	Council,		
					than road surface. Possible	Austroads		
		151.074	-32.3679		earthworks required.			
20	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.0956	-32.353		required (e.g gravel), temporary road.	Austroads		
20	Route 1			Property	Vehicle and load path on property,			
	(Hebden)	151.0969	-32.3521		landowner notification required			
21	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.1514	-32.2697		required (e.g gravel), temporary road.	Austroads		

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
21	Route 1			Overhang	Trees require trimming for load path			Y
	(Hebden)	151.1511	-32.2698					
21	Route 1			Property	Vehicle and load path on property,			
	(Hebden)	151.1487	-32.2697		landowner notification required			
22				Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.1486	-32.2697		required (e.g gravel), temporary road.	Austroads		
22	Route 1			Overhang	Trees require clearing.		Y	
	(Hebden)	151.1473	-32.2687					
23	Route 1			Pavement	Wheel path exits pavement. Suitable	Local	Y	
	(Hebden)			Widening	sub base as per OSOM Standard	Council,		
		151.1461	-32.269		required (e.g gravel), temporary road.	Austroads		
23	Route 1			Property	Vehicle and load path near 2 x			
	(Hebden)		22.2522		properties, will require landowner			
20	A 11	151.1452	-32.2698	0	notification on at least one			N N
30	Albano	151.1439	-32.2717	Overhang	Trees require trimming for load path			Y
30	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.1439	-32.2711		required (e.g gravel), temporary road.	Austroads		
31	Albano	151.1436	-32.2714	Overhang	Load path clearance required			
31	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.1404	-32.2719		required (e.g gravel), temporary road.	Austroads		
32	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.1393	-32.2719		required (e.g gravel), temporary road.	Austroads		
33	Albano	151.1384	-32.2725	Overhang	Trees require trimming for load path			Y
33	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.138	-32.2729		required (e.g gravel), temporary road.	Austroads		

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
34	Albano	151.1376	-32.2735	Property	Vehicle and load path near 2 x properties, will require landowner notification			
34	Albano	131.1370	-52.2755	Pavement	Wheel path exits pavement. Suitable	Local	Y	
54	Albano			Widening	sub base as per OSOM Standard	Council,		
		151.1314	-32.2751	Widening	required (e.g gravel), temporary road.	Austroads		
34	Albano	151.1299	-32.2745	Overhang	Trees require trimming for load path			Y
35	Albano	151.1279	-32.2763	Overhang	Trees require trimming for load path			Y
35	Albano			Pavement Widening	Wheel path exits pavement. Suitable sub base as per OSOM Standard	Local Council,	Y	
		151.1263	-32.2763		required (e.g gravel), temporary road.	Austroads		
36	Albano	151.1201	-32.2762	Overhang	Trees require trimming for load path			Y
37	Albano			Cattle Grid	Cattle grid will need to be widened	Local	Y	
					and associated fences moved.	Council,		
		151.118	-32.2752			Austroads		
37	Albano	151.1177	-32.2746	Overhang	Trees require trimming for load path			Y
37	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.1152	-32.2713		required (e.g gravel), temporary road.	Austroads		
38	Albano	151.115	-32.2703	Overhang	Trees require trimming for load path			Y
39	Albano	151.1151	-32.2658	Overhang	Trees require trimming for load path			Y
40	Albano			Causeway	Steep road grade. OSOM vertical	Local	Y	
					grade max 10%. Slope profile of	Council,		
					causeway approx 30%. Would require	Austroads		
			22.2522		vertical assessment and upgrades to			
	Alle	151.1154	-32.2639		causeway to create flatter profile.			
40	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
		1 - 1 1 1 1 7	22 2617	Widening	sub base as per OSOM Standard	Council,		
12	Albara	151.1147	-32.2617	Quarbara	required (e.g gravel), temporary road.	Austroads		V
42	Albano	151.115	-32.2612	Overhang	Trees require trimming for load path			Y

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
42	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.1154	-32.2604		required (e.g gravel), temporary road.	Austroads		
43	Albano	151.1155	-32.2611	Overhang	Trees require trimming for load path			Y
43	Albano			Pavement	Wheel path exits pavement. Suitable		Y	
				Widening	sub base as per OSOM Standard			
		151.1143	-32.2582		required (e.g gravel), temporary road.			
44	Albano			Causeway	Steep road grade. OSOM vertical	Local	Y	
					grade max 10%. Slope profile of	Council,		
					causeway approx 30%. Would require	Austroads		
					vertical assessment and upgrades to			
		151.1137	-32.257		causeway to create flatter profile.			
44	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.1145	-32.2553		required (e.g gravel), temporary road.	Austroads		
44	Albano	151.113	-32.2541	Overhang	Trees require trimming for load path			Y
45	Albano	151.0553	-32.4416	Overhang	Load path clearance required			
45	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0556	-32.4413		required (e.g gravel), temporary road.	Austroads		
46	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0617	-32.4395		required (e.g gravel), temporary road.	Austroads		
46	Albano			Property	Vehicle and load path on property,			
		151.0623	-32.4394		landowner notification required			
46	Albano	151.0619	-32.4392	Overhang	Load path clearance required			
47	Albano			Property	Vehicle and load path on property,			
		151.0605	-32.4358		landowner notification required			

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
47	Albano	151.0629	-32.4226	Pavement Widening	Wheel path exits pavement. Suitable sub base as per OSOM Standard required (e.g gravel), temporary road.	Local Council, Austroads	Y	
48	Albano	151.063	-32.4005	Causeway	Steep road grade. OSOM vertical grade max 10%. Slope profile of causeway approx 30%. Would require vertical assessment and upgrades to causeway to create flatter profile.	Local Council, Austroads	Y	
48	Albano	151.0667	-32.3934	Pavement Widening	Wheel path exits pavement. Suitable sub base as per OSOM Standard required (e.g gravel), temporary road.	Local Council, Austroads	Y	
49	Albano	151.0598	-32.3804	Cattle Grid	Cattle grid will need to be widened and associated fences moved.			
50	Albano	151.0554	-32.3751	Property	Vehicle and load path potentially on property, landowner may require notification			
50	Albano	151.0569	-32.3775	Pavement Widening	Wheel path exits pavement. Suitable sub base as per OSOM Standard required (e.g gravel), temporary road.	Local Council, Austroads	Y	
51	Albano	151.057	-32.3771	Property	Vehicle and load path potentially on property, landowner may require notification			
52	Albano	151.0557	-32.3765	Cattle Grid	Cattle grid will need to be widened and associated fences moved.	Local Council, Austroads		
53	Albano	151.0487	-32.3693	Property	Vehicle and load path on property, landowner notification required			
54	Albano	151.0486	-32.3683	Property	Vehicle and load path on property, landowner notification required			

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
55	Albano			Property	Vehicle and load path potentially on			
					property, landowner may require			
		151.0442	-32.3586	_	notification			
55.5	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0441	-32.3579		required (e.g gravel), temporary road.	Austroads		
56	Albano	151.0434	-32.3567	Overhang	Trees require trimming for load path			Y
56	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0475	-32.3478		required (e.g gravel), temporary road.	Austroads		
57	Albano	151.0463	-32.3471	Overhang	Trees require trimming for load path			Y
57	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0457	-32.3462		required (e.g gravel), temporary road.	Austroads		
58	Albano	151.0631	-32.3827	Overhang	Trees require trimming for load path			Y
58	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0637	-32.3815		required (e.g gravel), temporary road.	Austroads		
59	Albano	151.0645	-32.38	Overhang	Trees require trimming for load path			Y
59	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0677	-32.3755	Ū	required (e.g gravel), temporary road.	Austroads		
60	Albano			Property	Vehicle and load path potentially on			
				. ,	property, landowner may require			
		151.0714	-32.3735		notification			
60	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.074	-32.3679	-	required (e.g gravel), temporary road.	Austroads		
61	Albano	151.0956	-32.353	Overhang	Trees require trimming for load path			Y
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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
61	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.0969	-32.3521		required (e.g gravel), temporary road.	Austroads		
62	Albano			Property	Vehicle and load path on property,			
		151.1514	-32.2697		landowner notification required			
62	Albano			Pavement	Wheel path exits pavement. Suitable	Local	Y	
				Widening	sub base as per OSOM Standard	Council,		
		151.1511	-32.2698		required (e.g gravel), temporary road.	Austroads		
63	Albano			Cattle Grid	Cattle grid will need to be modified	Local		
	Road				and associated fences moved.	Council,		
		151.1132	-32.252			Austroads		
64	Albano			Tree Branch	Tree Branch Trimming Required			Y
	Road	151.1128	-32.2506	Trimming				
65	Albano			Road	Minor widening and stabilising road	Local	Y	
	Road			Widening	surface needed	Council,		
		151.1122	-32.2494			Austroads		
66	Albano			Road	Minor widening and stabilising road	Local	Y	
	Road			Widening	surface needed	Council,		
		151.1113	-32.2487			Austroads		
67	Albano			Tree Branch	Tree Branch Trimming Required			Y
	Road	151.1116	-32.2475	Trimming				
68	Albano			Road	Minor widening and stabilising road	Local	Y	
	Road			Widening	surface needed	Council,		
		151.1121	-32.2469			Austroads		
69	Albano			Road	Minor widening and stabilising road	Local	Y	
	Road			Widening	surface needed	Council,		
		151.1121	-32.246			Austroads		
70	Albano			Embankment	Embankment may impact rear of load.			
	Road	151.1133	-32.2438		Clearance to be reviewed			
71	Albano			Property	Load path overhangs corner of			
	Road	151.1133	-32.2435	Overhang	property			

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
72	Albano			Cattle Grid	Cattle grid will need to be modified	Local		
	Road				and associated fences moved.	Council,		
		151.1122	-32.2428			Austroads		
73	Albano			Tree Branch	Tree Branch Trimming Required			Y
	Road	151.1052	-32.23	Trimming				
74	Albano			Tree Branch	Tree Branch Trimming Required			Y
	Road	151.1045	-32.2281	Trimming				
75	Albano			Cattle Grid	Cattle grid will need to be modified	Local		
	Road				and associated fences moved.	Council,		
		151.1035	-32.2272			Austroads		

Table 1-2 Schedule of Works from PON to Hebden Road

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Figure Point	Route	Latitude	Longitude	Impact Type	Impact Description	Design Standard	Land Disturbance	Vegetation Trimming
1	Newcastle Port to Pacific Hwy/New England Hwy	151.7678	-32.89558	Road Furniture	Fencing may need to be temporarily removed, however the rear overhang should clear the fencing. Wheel path stays within bitumen	TfNSW		
2	Newcastle Port to Pacific Hwy/New England Hwy	151.7682	-32.8984	Swept Path Overhang	Fencing may need to be temporarily removed, however the rear overhang should clear the fencing. Wheel path stays within bitumen	TfNSW		

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3	Newcastle Port to Pacific Hwy/New England Hwy	151.7674	-32.89892	Pavement Widening	Wheel path exits pavement. Suitable sub base as per OSOM Standard required	TfNSW	Υ
4	Newcastle Port to Pacific Hwy/New England Hwy	151.7533	-32.90054	Pavement Widening	Wheel path exits pavement. Suitable sub base as per OSOM Standard required (e.g gravel)	TfNSW	
4	Newcastle Port to Pacific Hwy/New England Hwy	-		Road Furniture	Traffic Light required to be relocated or removed during turbine delivery	TfNSW	
8	Newcastle Port to Pacific Hwy/New England Hwy	151.7190	-32.88211	Pavement Widening	Wheel path exits pavement. Suitable sub base as per OSOM Standard required (e.g gravel)	TfNSW	Y
8	Newcastle Port to Pacific Hwy/New England Hwy			Road Furniture	Power Poles required to be relocated or removed during turbine delivery	TfNSW	

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8	Newcastle Port to Pacific Hwy/New England Hwy	Road Furniture	Traffic Lights required to be relocated or removed during turbine delivery	TfNSW
8	Newcastle Port to Pacific Hwy/New England Hwy	Road Furniture	Median barrier encroached by OSOM body and load and required to be removed during turbine delivery	TfNSW
8	Newcastle Port to Pacific Hwy/New England Hwy	Road Furniture	Alternate path for OSOM vehicle to utilise opposite side of the carriageway. Traffic lights appear close to the OSOM vehicle but should be clear. Wheel path stays within bitumen.	

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Yours sincerely,

Hayden Calvey Traffic Engineering Team Lead for Cardno

Source: Aerial ©2019 Google



BOWMANS CREEK WIND FARM

Indicative Road Upgrades Due to the Project

BYAMES BAILEY & ASSOCIATES EPURON

FIGURE 39