Determination

Feeder 916/917 Tower Replacements Project

Proposal details			
REF date	28 June 2024	**REF version number**	342
Proponent name	Ausgrid Operator Partnership (ABN 78 508 211 731), trading as Ausgrid	**Proponent address**	24-28 Campbell Street, Sydney NSW 2000
Activity class	4	**OneDrive reference**	REF342 - Feeder 916 917 Tower Replacements

The *Review of Environmental Factors (REF) – Feeder 916/917 Tower Replacements Project* 28 June 2024- Version 1.1 has been reviewed and considered against the requirements of sections 5.5 and 5.7 of the *Environmental Planning and Assessment Act 1979* (EP&A Act).

In considering the proposal, this determination has examined and taken into account to the fullest extent possible, all matters affecting or likely to affect the environment by reason of that activity as addressed in the REF and by associated investigations and studies including the following:

- Consultation Summary Report
- Geotechnical Investigation
- Statement of Heritage Impact and Historical Archaeological Assessment
- Flora and Fauna Assessment Report
- Aquatic Ecology Assessment
- Aboriginal Cultural Heritage Assessment Report (ACHAR)

This determination is made following a consideration of the factors in section 5.5 of the EP&A Act, clause 171 of the Environmental Planning and Assessment Regulation 2021 (EP&A Regulation) and the *NSW Code of Practice for Authorised Network Operators* (DP&E, 2015).

Among other factors, the REF has considered potential impacts of the activity on critical habitat and threatened species, populations and ecological communities and their habitats for both terrestrial and aquatic species. The REF has also assessed the need for referral to the Commonwealth Minister for the Environment under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

As an authorised person on behalf of Ausgrid, who did not prepare the REF, I discharge the duty as a determining authority under section 5.5 of the EP&A Act and conclude that the proposal:

- is not an activity prescribed by the EP&A Regulation as requiring an environmental impact statement (EIS),
- is not likely to significantly affect the environment (including critical habitat) or threatened species, populations or ecological communities, or their habitats, and therefore an EIS is not required,
- is not to be carried out on land that is, or is a part of critical habitat, or is not likely to significantly affect threatened species, populations or ecological communities, or their habitats, and therefore a species impact statement (SIS) is not required,
- is not likely to have a significant impact on matters of national environmental significance, or on the environment on Commonwealth land, and therefore referral to the Minister under the EPBC Act is not required.

Therefore, the proposal to install concrete and steel poles and replace transmission towers along Ausgrid's Feeder 916/917 between Woolooware and Kurnell, as described in the REF, is approved on behalf of Ausgrid and may proceed without further assessment subject to compliance with and including the implementation of the following conditions of approval required to prevent, minimise, and/or offset adverse environmental impacts including economic and social impacts:

- Mitigation measures in *REF – Feeder 916/917 Tower Replacements Project* 28 June 2024- Version 1.1 (Refer to Attachment 1)
- All relevant statutory requirements, including approvals, licences, notifications, permits and authorisations.

Any aspects of the proposal that do not comply with the specified mitigation measures are in breach of this determination.

Phil Bratby
Project Director
1 July 2024

Attachment 1 Mitigation measures in REF –
Feeder 916/917 Tower Replacements Project 28 June 2024- Version 1.1

Impact	No.	Mitigation measures	Design	Construction	Operation
Land use	5.1.1	Consult with affected stakeholders about the proposal.	✓	✓	
	5.1.2	Provide information via a free call 1800 number, email address and Ausgrid's website for people wanting more information.	✓	✓	
	5.1.3	Realign Towers 72-76 into Captain Cook Drive	✓	✓	✓
	5.1.4	Decrease operational footprint upon completion of construction			✓
Climate Change	5.2.1	Comply with section 7 of NS174C Environmental Handbook.		✓	
	5.2.2	Implement Ausgrid's Net Zero Strategy.	✓	✓	✓
	5.2.3	Replacement planting and vegetation reinstatement to be undertaken at each transmission tower location in accordance with a vegetation management plan.		✓	✓
	5.2.4	Adopt Ausgrid's Sustainable Procurement Policy.	✓	✓	
Electric and magnetic fields	5.3.1	Refer any public enquiries to Ausgrid's Environmental Services.	✓	✓	✓
	5.3.2	Decommissioning and removal of the existing 33kV overhead feeder along Captain Cook Drive at Kurnell.	✓	✓	
		Vertical transmission feeder configuration ensuring conductors are positioned furthest from permanent receivers	✓	✓	
Noise and vibration	5.4.1	Comply with section 4.2 of NS174C Environmental Handbook.		✓	
	5.4.2	All workers to be made aware of the presence of sensitive receivers (Table 5-5 of the REF) in the area and the need to avoid impacts.		✓	
	5.4.3	Provide at least four clear business days notice to affected receivers (Table 5-5 of the REF) prior to starting work unless it is emergency works or it is discussed with the affected receivers face-to-face. Include the following information in notification letters: • a description of the works and why they are being undertaken • details of the works that will be noisy • work hours and expected duration • what is being done to minimise the impacts (eg respite periods) 24 hour contact number.		✓	
	5.4.4	Consult with affected sensitive receivers, see Table 5-5 of the REF.		✓	
	5.4.5	Where practical and relevant, schedule any high-impact activities during school holidays.		✓	
	5.4.6	With reference to Table 5-5 of the REF, plan the site layout to minimise movements that would activate audible reversing and movement alarms.		✓	
	5.4.7	With reference to Table 5-5 of the REF, Do not affect a receiver for more than two nights in a one-week period.		✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.4.8	Due to unavoidable work requirements or a regulatory licence requirement (eg RMS) out of hours and/or night works may be required.		✓	
	5.4.9	Where noisy works impacting a sensitive receiver (Table 5-5 of the REF) will; • likely to exceed three weeks in duration at one location, or • cause offensive noise, or • involve night pile driving develop and comply with a qualitative Construction Noise and Vibration Management Plan. The management plan must be in accordance with the Interim Construction Noise Guidelines (NSW DECC, 2009). Where noise cannot be effectively managed by other means, additional quantitative assessment may be required.	✓	✓	
	5.4.10	Prior to the commencement of work where driven piles are required within 20m of a built structure, obtain additional geotechnical assessment and/ or advice.		✓	
	5.4.11	Where works are proposed to be undertaken during breeding periods*, a Migratory Bird Construction Management Plan must be prepared prior to the commencement of works which outlines mitigation strategies for; • the disturbance to migratory shorebird breeding, roosting and/or feeding habitat, • light and noise impacts, • potential predation, • water quality and sedimentation, and • ongoing monitoring for migratory shorebirds during construction works. ** September – April for Towers 54 and T72-76*	✓	✓	
	5.4.12	With reference to Table 5-5 of the REF, consideration of low noise alternatives would be given to achieve the required construction site compaction levels, for example a compaction roller rather than Wacker packer and hydraulic cutters rather than angle grinders.		✓	
	5.4.13	Provide information via a free call 1800 number, email address and Ausgrid's website for people wanting more information.	✓	✓	
	5.4.14	Provide signage outside the worksite detailing who is undertaking the works and a 24 hour contact number.		✓	
	5.4.15	Have a documented complaints process, including an escalation procedure so that if a complainant is not satisfied there is a clear path to follow		✓	
	5.4.16	Keep a register of any complaints, including details of the complaint such as date, time, person receiving complaint, complainant's contact number, person referred to, description of the complaint, time of verbal response and timeframe for written response where appropriate.		✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.4.17	Undertake condition reports of structures within five metres of vibration generating works.		✓	
Air quality	5.5.1	Comply with sections 2.1 Erosion and sediment control and 2.2 Air of NS174C Environmental Handbook		✓	
	5.5.2	All workers to be made aware of the presence of sensitive receivers in the area and the need to avoid impacts.		✓	
	5.5.3	Visually monitor dust levels during works. If dust is leaving site, causing a safety issue or complaints are received suspend works and consider mitigation options and/or substitute with an alternate process.		✓	
	5.5.4	Restrict traffic movement and vehicle speeds over disturbed areas and unsealed roads.		✓	
	5.5.5	Install dust barriers (shade cloth) on fences and gates as best practice		✓	
	5.5.6	The proposal would require the importation of materials and estimated disturbed area of more than 250 m2. Further, in many instances worksites would be in proximity to sensitive environments^. An ESCP is required to be prepared for most* tower locations. The ESCP is to be prepared by a suitably qualified person (i.e. who has completed an International Erosion Control Association (IECA) endorsed course or passed the examination for Certified Professional in Erosion and Sediment Control (CPESC)) in accordance with Managing Urban Stormwater – Soils and Construction. **Where sensitive environments are not in immediate proximity and disturbed areas are less than 250m2, Erosion and Sediment Control devices consistent with Ausgrid's NS174C would be deemed sufficient.* *^ Sensitive environments, for the purpose of this condition refers to environments which meet the definition of Ecologically Sensitive Areas in NS174C.*	✓	✓	
	5.5.7	No stockpiling on site. All spoil to be tipped into a truck or skip bin.		✓	
	5.5.8	To assist in odour control, minimise the time that ASS soils are exposed to air by staging works and storing soils in a lined and covered skip bin or wrapped in plastic. Refer to Section 5.7 of the REF for additional information on ASS Management.		✓	
Hydrology	5.6.1	Comply with sections 2.1 Erosion and sediment control, 3.1 Oil fuel and chemicals and 2.3 Water discharge of NS174C Environmental Handbook.		✓	
	5.6.2	All workers to be made aware of the presence of sensitive areas and the need to avoid impacts.		✓	
	5.6.3	Refer to No. 5.5.6 above		✓	
	5.6.4	Maintain sediment controls, especially during periods of rainfall.		✓	
	5.6.5	Remove temporary erosion and sediment controls as the site is stabilised or rehabilitation is complete		✓	
	5.6.6	No stockpiling on sites in Coastal Wetland and mapped proximity areas. This includes all Towers with the exception to T61-65, T67-68 and T70. All spoil to be tipped into a truck or skip bin.	✓	✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.6.7	Stockpiles outside of environmentally sensitive areas must be located within the confines of the designated fenced construction footprint and away from roadways, gutters, drains, slopes, concentrated flow paths and channels.		✓	
	5.6.8	Stabilise disturbed areas promptly, this may include progressive rehabilitation		✓	✓
	5.6.9	Access tracks are to be maintained in accordance with Erosion and sediment control on unsealed roads (OEH, 2012) and Managing Urban Stormwater Volume 2C Unsealed Roads.		✓	✓
	5.6.10	Organise a licensed taker to remove the water if the relevant discharge criteria cannot be met.		✓	✓
	5.6.11	Where construction activities intercept subsurface water and dewatering is required, activities would be assessed and documented in a Construction Dewatering Management Plan. As a minimum, the plan would detail; • Estimated volumes, • Dewatering method, • Acid Sulphate Soil risk*, • Treatment and/ or discharge disposal requirements, and • Monitoring for effectiveness The plan must ensure the dewatering operations do not impact on the quality of adjacent surface waterbodies. Any license or requirements of an aquifer interference exemption would be the responsibility of the Principal Contractor. ** Water Quality (2018) Guidance for the dewatering of acid sulfate soils in shallow groundwater environments*	✓	✓	
	5.6.12	Prior to construction, outline the location of access routes, compound sites, construction boundaries, and exclusion zones on detailed designs, clearly staked and marked onsite.		✓	
	5.6.13	Prior to construction, prepare and implement a Vegetation management plan.		✓	
	5.6.14	If dewatering of groundwater is required during construction, investigate the need to obtain a licence under the *Water Act 1912* from DPIE where required.		✓	
	5.6.15	Provide a secure and bunded area for the storage of fuel, oil or chemicals. This area would be imperviously bunded with a capacity to contain not less than 110% of the volume of the largest container.	✓	✓	
	5.6.16	Prior to construction, nominate and sign post a plant refueling area.		✓	
	5.6.17	Store oil in a bund unless it is temporary storage.		✓	✓
	5.6.18	Ensure a spill kit is readily available and workers and know how to use it.		✓	✓
Geology and soil	5.7.1	Comply with section 2.1 Erosion and sediment control of NS174C Environmental Handbook.		✓	
	5.7.2	All workers to be made aware of the presence of sensitive areas and the need to avoid impacts.		✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.7.3	Refer to No. 5.5.6 above	✓	✓	
	5.7.4	Prepare and comply with a Site-Specific ASS Management Plan*. Consistent with the ASS Manual (NSW), spoil may be treated in accordance with Part 4 of the EPA Waste Classification Guidelines (2014). **Mapped areas are shown for Towers 52-59, 65-77 and should be managed as such unless tested.*	✓	✓	
	5.7.5	Maintain access tracks in accordance with *Managing Urban Stormwater Volume 2C Unsealed Roads* and *Erosion and sediment control on unsealed roads – A field guide for erosion and sediment control maintenance practices.*	✓	✓	✓
Contamination	5.8.1	Comply with section 4.3 Contamination of NS174C Environmental Handbook.		✓	
	5.8.2	All workers to be made aware of the presence of sensitive areas and the need to avoid impacts.		✓	
	5.8.3	Toolbox talk is to include a discussion of the potential contamination at the site.		✓	
	5.8.4	Segregate suspected contaminated spoil from clean spoil to reduce disposal costs.		✓	
	5.8.5	Undertake testing to determine the waste classification and subsequent storage, transport, tracking, licensing and disposal requirements.		✓	
	5.8.6	Temporarily store excavated known or suspected contaminated spoil in a covered, lined/ sealed skip or bulk storage bag or sealed container on-site for classification prior to disposal off site. If storing more than 5 tonnes of spoil, use a licensed storage facility. There may also be a requirement for having a licence to transport the spoil (there are exemptions for Ausgrid staff).		✓	
	5.8.7	• If contamination is found, work must stop immediately, the site be restricted and Ausgrid's Environmental Services contacted.		✓	
	5.8.8	Engage an AS1 licensed contractor to manage asbestos impacted fill in accordance with Work Cover NSW (2008).		✓	
	5.8.9	The management and handling of tower structures (cutting, grinding, bending etc) must occur in containment systems suitable to ensure no dust or debris enter the environment. Where dust and debris do inadvertently enter the environment and cannot be readily recovered, stop work and contact Ausgrid's Environmental Services.		✓	
	5.8.10	Prior to the commencement of tower demolition and removal works, the towers paint system is to be assessed for the presence of hazardous paints in accordance with the Standard by a suitably qualified hygienist. As advised by the hygienist, the contractor is to comply with the Australian Standard, including; • develop a hazardous paint compliance plan (HPCP) to indicate how compliance with the Standard will be delivered. submit a compliance report to Ausgrid upon the completion of works demonstrating that all work was undertaken in accordance with the HPCP.	✓	✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
Waste	5.9.1	Comply with section 4.2 Waste management of NS174C Environmental Handbook.		✓	
	5.9.2	Classify wastes to determine licensing, waste tracking and disposal requirements.		✓	
	5.9.3	Segregate and label waste to improve recycling opportunities, avoid cross contamination and reduce disposal costs.		✓	
	5.9.4	Where possible, reuse or recycle or return to the supplier wastes including metal components, transformer oil, spoil and packaging.		✓	✓
	5.9.5	Reuse VENM and ENM where options are available. Ensure that: • a valid waste classification certificate is available and • the reuse meets the conditions of the planning approval for that site.		✓	
	5.9.6	Where not impacted (contaminated) as a result on construction activities, consideration of imported VENM used to facilitate construction should be; • Remain insitu on site to assist in the future maintenance and operation of the network, or • Other alternate off-site re-use options be explored in the local area • Suitable imported VENM should avoid disposal to landfill upon the completion of work.	✓	✓	
	5.9.7	• T63 and T64 are within a licensed landfill premises operating as Breen Resources. The contractor is to liaise with Breen Resources to ensure compliance with Breen's landfill license.		✓	
	5.9.8	Where more than 50kg but less than 1 tonne of Scheduled Chemical Waste (SCW) is stored, ensure that: • there is a clearly defined storage area with conspicuous warning notices • the storage area is constructed to prevent discharge into the external environment. This can be satisfied by storing in a plastic lined and covered bin • an adequate supply of PPE, clean-up material and equipment must be available in a secure external location from the storage area.		✓	
	5.9.9	Where more than 1 tonne of SCW is stored: • a licence is required to store the waste. • comply with the conditions of the licence perform monthly inspections for unauthorised entry or leakage and keep a log at the storage area containing details and reports of inspections.		✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.9.10	When transporting SCW with a concentration of more than 50mg/kg, personnel accompanying the vehicle must: • be trained in methods of containing spilled scheduled chemicals • be provided with adequate personal protective equipment, clean up material and equipment to deal with any spill notify the EPA of any spill.		✓	
	5.9.11	A transport licence or waste tracking is not required to transport oil (liquid or hazardous waste) in Ausgrid vehicles between Ausgrid locations (eg from the substation to a depot). A licence for storage of liquid or hazardous waste of greater than 5 tonnes is required. If these licensing thresholds are breached ensure storage is on a licensed Ausgrid depot. If liquid or hazardous waste will be transported by non-Ausgrid vehicles the appropriate licences must be in place. The waste oil must be disposed of to a facility licensed to accept Liquid and, or hazardous waste. Ausgrid employees must manage the waste oil in accordance with Ausgrid's waste licence and additional requirements outlined in EG 120 Waste Guidelines.		✓	
	5.9.12	Ensure a spill kit is readily available and workers and know how to use it.		✓	
	5.9.13	Disposal of tower structures with hazardous paints to landfill should be avoided. Recycling decommissioned tower structures through suitably licensed facilities must be given priority.		✓	
Flora and fauna	5.10.1	Undertake a pre-clearing survey including targeted searches for threatened fauna threatened flora and Priority Weeds, and delineating habitat-bearing trees and shrubs.		✓	
	5.10.2	Supervise the clearance of any habitat trees or shrubs identified during the pre-clearing survey (native and exotic) to capture, treat and/or relocate any displaced fauna.		✓	
	5.10.3	A Vegetation Management Plan (VMP) is to be prepared to ensure appropriate weed management and rehabilitation of each construction area.	✓	✓	✓
	5.10.4	Ensure any vegetation management required to facilitate the proposal is restricted to the extent assessed in the Flora and Fauna Assessment (Narla, July 2023- Appendix D)		✓	
	5.10.5	Obtain clearance to work during the Green and Gold Bell Frog breeding season*. Vegetation management at these locations must be supervised to catch and relocate any Green and Gold Bell Frogs observed. **September- February when within 100m of Tower 75*	✓	✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.10.6	Where works are proposed to be undertaken during breeding periods*, a Migratory Bird Construction Management Plan must be prepared before the commencement of works which outlines mitigation strategies for; • the disturbance to migratory shorebird breeding, roosting and/or feeding habitat, • light and noise impacts, • potential predation, • water quality and sedimentation, and • ongoing monitoring for migratory shorebirds during construction works. ** September – April for works adjacent to T72-76*	✓	✓	
	5.10.7	Comply with section 5 Ecology of NS174C Environmental Handbook.		✓	
	5.10.8	Before entering or leaving bushland, check boots, personal items and all components of vehicles and equipment (including radiator, engine, cabin, tray, attachments, guards and plates) are free of soil and vegetation. If identified, disinfected with solutions such as Pine-o-Cleen or Nu Clenz prior to undertaking works in vulnerable areas.		✓	✓
	5.10.9	Comply with the Tree Safety Management Plan when undertaking vegetation pruning/ removal and maintenance works.		✓	✓
	5.10.10	Trench or excavate outside the SRZ.		✓	
	5.10.11	Contain and dispose of cleared vegetation containing weeds to an appropriately licensed vegetation waste disposal facility.		✓	✓
	5.10.12	In consultation with a suitably qualified ecologist, implement a tree felling protocol to protect fauna. 1. Identify all hollow-bearing trees in the vicinity of the works with high visibility flag or similar prior to commencement of vegetation clearing. 2. Undertake pre-clearance surveys for fauna immediately prior to clearing. 3. Where fauna is identified in a tree to be felled, the tree must not be cleared until the fauna has relocated itself. 4. Remove understorey vegetation and other trees in the vicinity. 5. Check the tree each morning until the fauna moves into adjacent vegetation (normally following day). 6. Ensure an ecologist is present during felling of hollow-bearing trees to relocate fauna or provide care as necessary.		✓	
	5.10.13	Prior to construction, prepare and implement a riparian corridor re-vegetation plan.		✓	
	5.10.14	Clear the minimum amount of vegetation necessary and consider replacement planting.		✓	
	5.10.15	No disturbance of bush rock, tree hollows, wetlands, mangroves, nests, aquatic or other sensitive habitats without ecological inspection.		✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.10.16	No storing equipment, parking vehicles or accessing the site through undisturbed areas.		✓	
	5.10.17	Use locally native species for landscaping.		✓	
	5.10.18	No importing mulch from other sites.		✓	✓
	5.10.19	No disturbance of mangroves, sea grass, creeks or waterways beyond the requirements of obtained permits		✓	✓
	5.10.20	Keep storage areas, stockpiles, vehicle parking, and access tracks clear of the TPZ.	✓	✓	
	5.10.21	Where earthing must be laid within the TPZ, minimise the extent impacted and for significant encroachments, underbore/ directional drill at least 600 mm beneath the ground surface, or if excavating, hand dig or use an air knife.	✓	✓	
	5.10.22	Vegetation to be retained must be identified and protected to prevent damage from workers and machinery and remain in place for the duration of construction work.		✓	
	5.10.23	When working at Tower 52, the contractor is to; • Not commence works until a Permit is obtained from NSW DPI, refer to Table 4-1 of the REF • Have the project ecologist provide an induction to all workers outlining the conditions of the project-specific Fisheries Permit, • Ensure all requirements of the permit are met before undertaking any which may directly or indirectly impact the surrounding environment, and • Undertake site rehabilitation and revegetation consistent with the permit requirements. Refer to Appendix E for a copy of the Aquatic Ecology Assessment and Appendix C for consultation undertaken with NSW DPI.			
Bush fire	5.11.1	Comply with section 5.3 Total fire bans of NS174C Environmental Handbook.		✓	
	5.11.2	During a total fire ban, no open fires or hot works are to be undertaken unless in accordance with an exemption granted by the NSW RFS.		✓	✓
	5.11.3	Hot work activities to be clear of combustible matter by at least 3 metres. Keep adequate firefighting equipment immediately at hand. Avoid driving a vehicle through long grass or operating motors and equipment in proximity to vegetation.		✓	✓
	5.11.4	Undertake consultation with the local fire authority prior to commencing hot works to advise of works in bushfire prone areas and of any access restrictions to fire trails.	✓		
Aboriginal heritage	5.12.1	Comply with section 6.1 Aboriginal heritage of NS174C Environmental Handbook.		✓	
	5.12.2	All workers to be made aware of sensitive areas and the need to avoid impacts.		✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.12.3	The contractor is to engage a suitably qualified archaeologist* to; • Provide an Aboriginal Heritage Induction, highlighting the requirements of the excavation methodology and legal enforceability of the AHIP. • Work following the Excavation Methodology outlined in the Aboriginal Cultural Heritage Assessment Report (ACHAR), and • Ensure compliance with the AHIP ** For Towers 57-67 and 72-75 [Captain Cook Drive inclusive]* *Refer to Appendix F for a copy of the Aboriginal Cultural Heritage Assessment Report (inclusive of Excavation Methodology.*	✓	✓	
	5.12.4	The contractor is to ensure all aspects of the Excavation Methodology are incorporated into their CEMP including; • Archaeological inductions, • Archaeological monitoring, • Test excavation, • Salvage, and • Unexpected finds *For Towers 57-67 and 72-75 [Captain Cook Drive inclusive]* *Refer to Appendix F for a copy of the Aboriginal Cultural Heritage Assessment Report (inclusive of Excavation Methodology).*		✓	
	5.12.5	All workers must be informed that Aboriginal sites are in the area. If potential Aboriginal heritage objects are discovered works must stop work immediately and Ausgrid Environmental Services should be contacted.		✓	✓
	5.12.6	Restrict vehicle and plant movements to existing roadways, designated and fenced construction areas or access tracks.		✓	
Non-Aboriginal heritage	5.13.1	Comply with section 7.2 Non-Aboriginal heritage of NS174C Environmental Handbook.		✓	
	5.13.2	All works to cease if potential heritage is discovered. Access should be restricted and Supervisor notified to ensure regulator is contacted. Ausgrid employees should contact Ausgrid Environmental Services on 9394 6659.		✓	
Visual and aesthetics	5.14.1	Consult with affected stakeholders about the proposal.	✓	✓	
	5.14.2	Clear the minimum amount of vegetation necessary and undertake replacement planting in accordance with the Vegetation Management Plan		✓	
	5.14.3	Explore the use of green and./ or grey coloured poles to reduce visual impact by allowing integration with existing vegetation	✓	✓	✓
Traffic and access	5.15.1	Comply with section 4.2 Noise and vibration of NS174C Environmental Handbook.		✓	

Impact	No.	Mitigation measures	Design	Construction	Operation
	5.15.2	Where works are proposed on a classified road, consent is required under section 138(1) of the Roads Act 1993. To apply for a section 138 consent, write to TfNSW for classified state roads or the relevant local council for classified regional roads to request approval, providing a description of the work and including a plan showing the extent of the works. An ROL must be obtained from TfNSW if traffic will be impacted during the works.		✓	
	5.15.3	Prepare and implement a Traffic Management Plan in accordance with [RMS/Council requirements and/or approval conditions, including pedestrian and cycle ways].		✓	
	5.15.4	Prior to construction, prepare a TCP in accordance with the Australian Standard 1742.3		✓	
	5.15.5	The TMP and /or TCP must consider the cumulative impact of construction traffic movements from other Ausgrid and non-Ausgrid works.		✓	
	5.15.6	All potentially affected residents and businesses are to be provided with 48 hours notice of any access changes to properties. Where residents and businesses are directly affected by the work (egg their access will be restricted), one week's notice must be given.		✓	
	5.15.7	Reinstate roads post works in consultation with council/TfNSW.		✓	
Social and economic	5.16.1	EMF, noise, visual and traffic mitigation measure as outlined in Section 5 of the REF would reduce potential impacts on the surrounding community.	✓	✓	✓
Cumulative Impact	5.17.1	Notify Ausgrid's Community Relations section prior to commencing construction works at each location.		✓	
	5.17.2	Liaise and plan works in consultation with relevant stakeholders prior to the commencement of work at each location.		✓	
Compliance	8.1.1	An Environmental Officer: • is to be appointed to the project, • assist in compliance with permit and approval requirements, • is to oversee those activities that have the potential to cause harm in Ecologically Sensitive Areas (refer to NS174C), and • has the authority to stop work if it is deemed necessary to mitigate potential environmental harm.		✓	
	8.1.2	The contractor is required to have an auditing and inspection schedule which involve the Environmental Officer.		✓	