

Appendix C – Out of hours construction impacts: paving and asphaltting

Out of hours interpretation

Out of hours works are defined within Part A, Section 3.2.5 as noise generating activities undertaken outside of the proposed construction hours.

Figure interpretation

In order to quantify the level of impact a risk matrix has been developed, which assigns a value for each stage of the works and categorises the risk level based on a comparison with the NML or the ICNG highly affected criterion of 75dB(A). **Table C.1** presents the out of hours risk matrix and indicates where moderate exceedances are predicted, works would be undertaken in line with a consultation program.

Table C.1 Out of hours risk matrix for impact

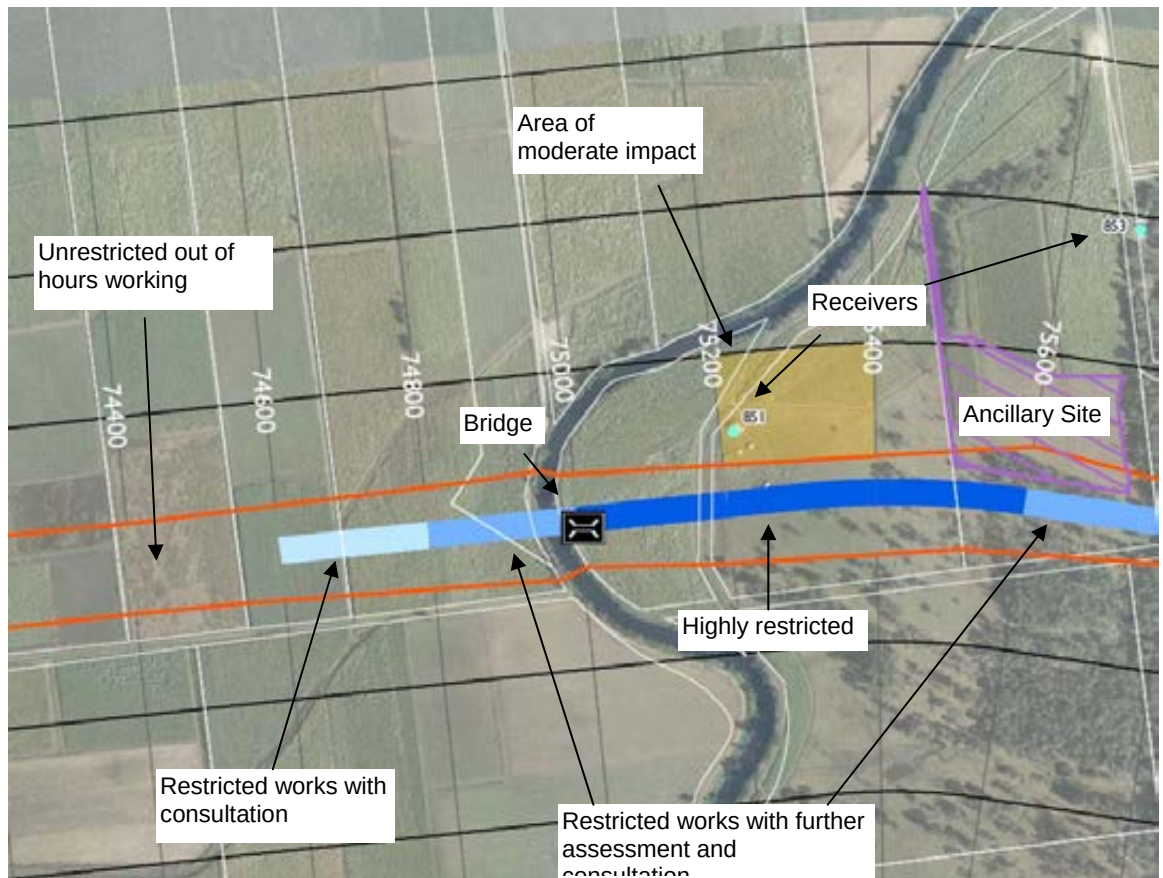
Predicted noise levels				
	<(NML – 10)	(NML – 10) to NML	NML to (NML+5)	>(NML + 5)
	No Impact	Low Impact	Moderate Impact	High Impact
No Impact	Closest out of hour construction works predicted to be inaudible			
Low Impact	Construction levels equal to the lowest out of hours NML are unlikely to cause significant disturbance to the majority of receivers, particularly for short term works.			
Moderate Impact	Levels exceeding the lowest out of hours NML by up to 5dB(A) would be perceptible by the majority of receivers. The impact will be greatest in highly populated areas. Where areas are less populated, the potential for mitigation is more achievable and therefore impacts may be mitigated.			
High Impact	Levels exceeding the lowest out of hours NML by more than 5dB(A) would be perceptible by almost all receivers. Receivers exposed to this magnitude of impact are likely to be significantly affected and potential for adverse community reaction is almost certain.			

Table C.2 Out of hours risk matrix for identification of suitable work areas

Area classification	Requirements
Unrestricted	Closest out of hour construction works predicted to be inaudible and therefore work area is suitable for out of hours works without undertaking any specific consultation, assessment, management or mitigation measure.
Restricted with consultation	Area is suitable for out of hours works with consultation at the nearest noise sensitive receivers. Implementation of all feasible and reasonable mitigation measures.
Restricted with further assessment and consultation	Out of hours construction works may be suitable for these areas, where reasonable justification can be made for their requirement. A detailed noise assessment and suitable targeted community consultation will be required. This may result in the implementation of appropriate feasible and reasonable mitigation and management measures.
Highly restricted	Typical construction works are unlikely to be suitable for these areas for all but the most essential of works, i.e. one of the following: - Health & safety requirements - Work required by emergency services - Works required on existing highway where total road closures are required - Where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm - Where prior agreement is provided from landowners (i.e. negotiated agreements) - For technical activities where works cannot be undertaken within the proposed hours of a single period i.e. 24 hour concrete pours within the project. It should be noted that even in the above circumstances, strong justification for the works would be required along with community consultation and implementation of mitigation/management measures.

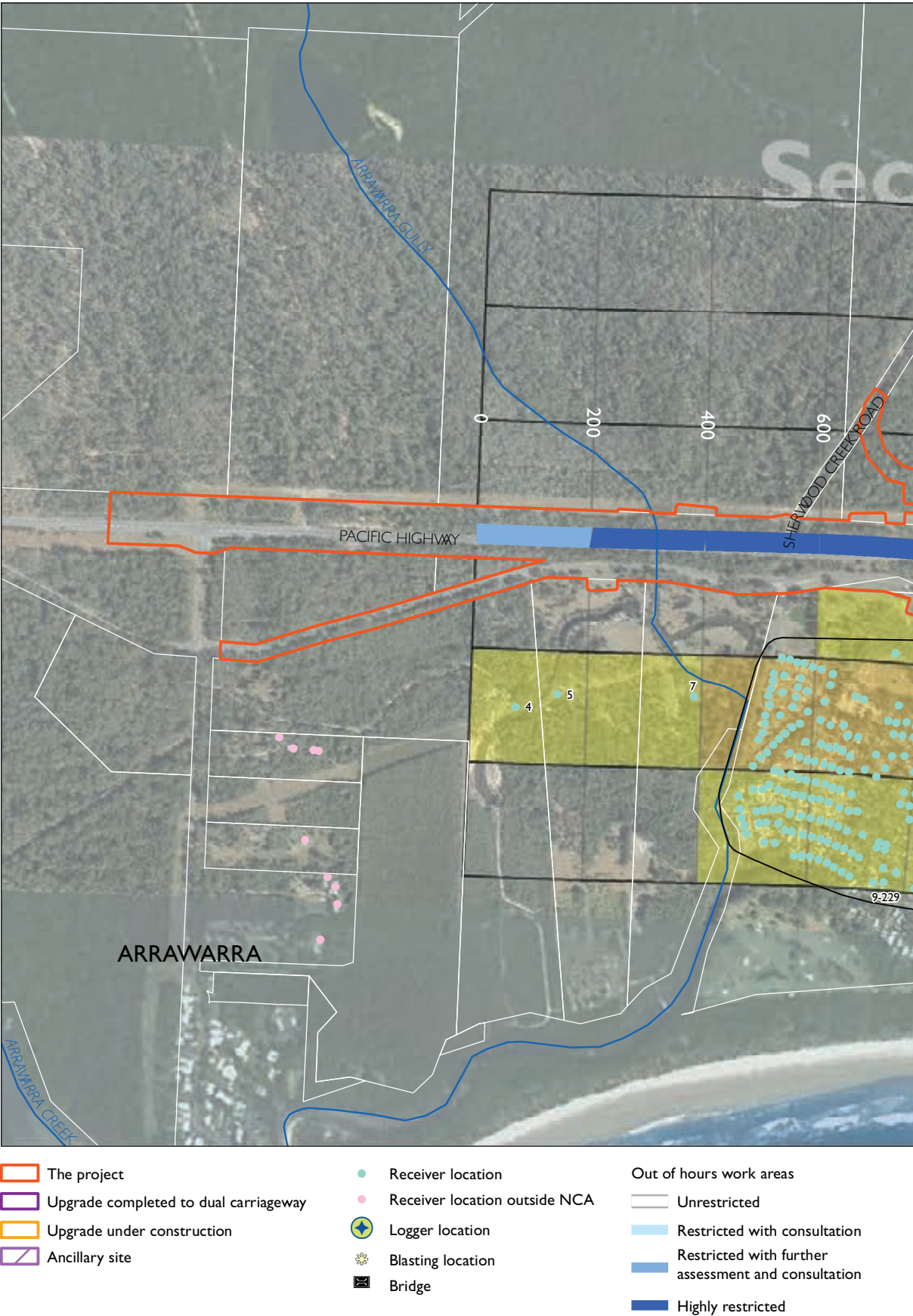
The study area (600 metres either side of the alignment) has been split into a grid of 200 metres by 200 metres

The predicted noise levels from the activity of Paving & Asphaltting, at each receiver, has been used to assign a No impact, Low, Moderate or High Impact, as per **Table C.1**, to each of the assessable receiver locations. Where a receiver is predicted to experience a noise level in the range shown in **Table C.1**, the resultant grid square will be coloured accordingly. This impact has been transposed onto the alignment to identify where potential out of hours work may be suitable, with **Table C.2** used as the key. This does not necessarily mean that out of hours works would be undertaken in these areas, but purely identifies the associated impacts. An annotated screenshot to illustrate this is presented below.

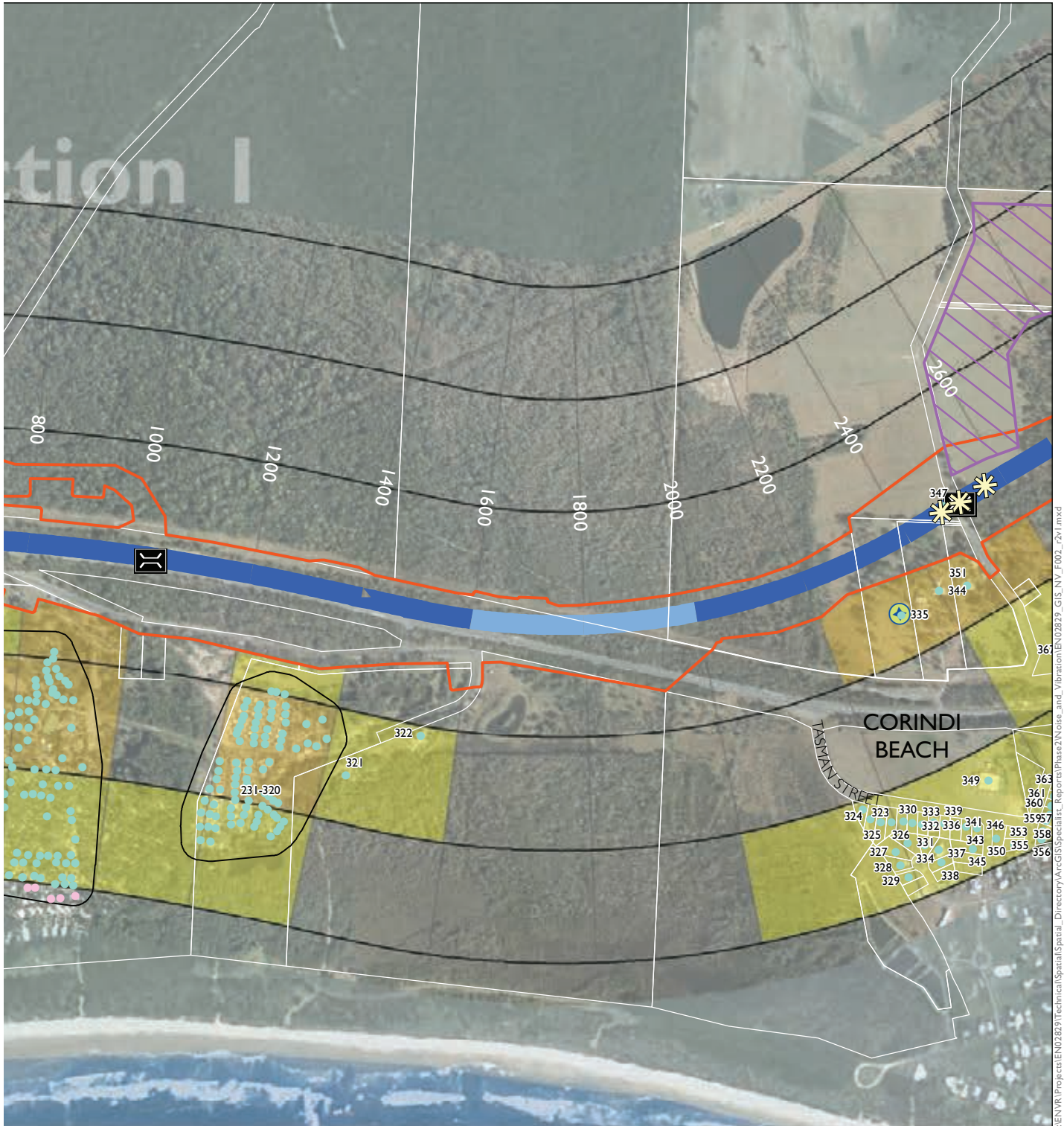


These figures also identify locations of ancillary sites, bridges and potential blasting areas within the project.

Appendix C.I Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

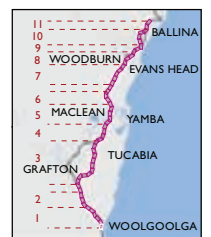
NCA Zones			
Zone F			
Zone E			
Zone D			
Zone C			
Zone B			
Zone A			

0 300
Metres

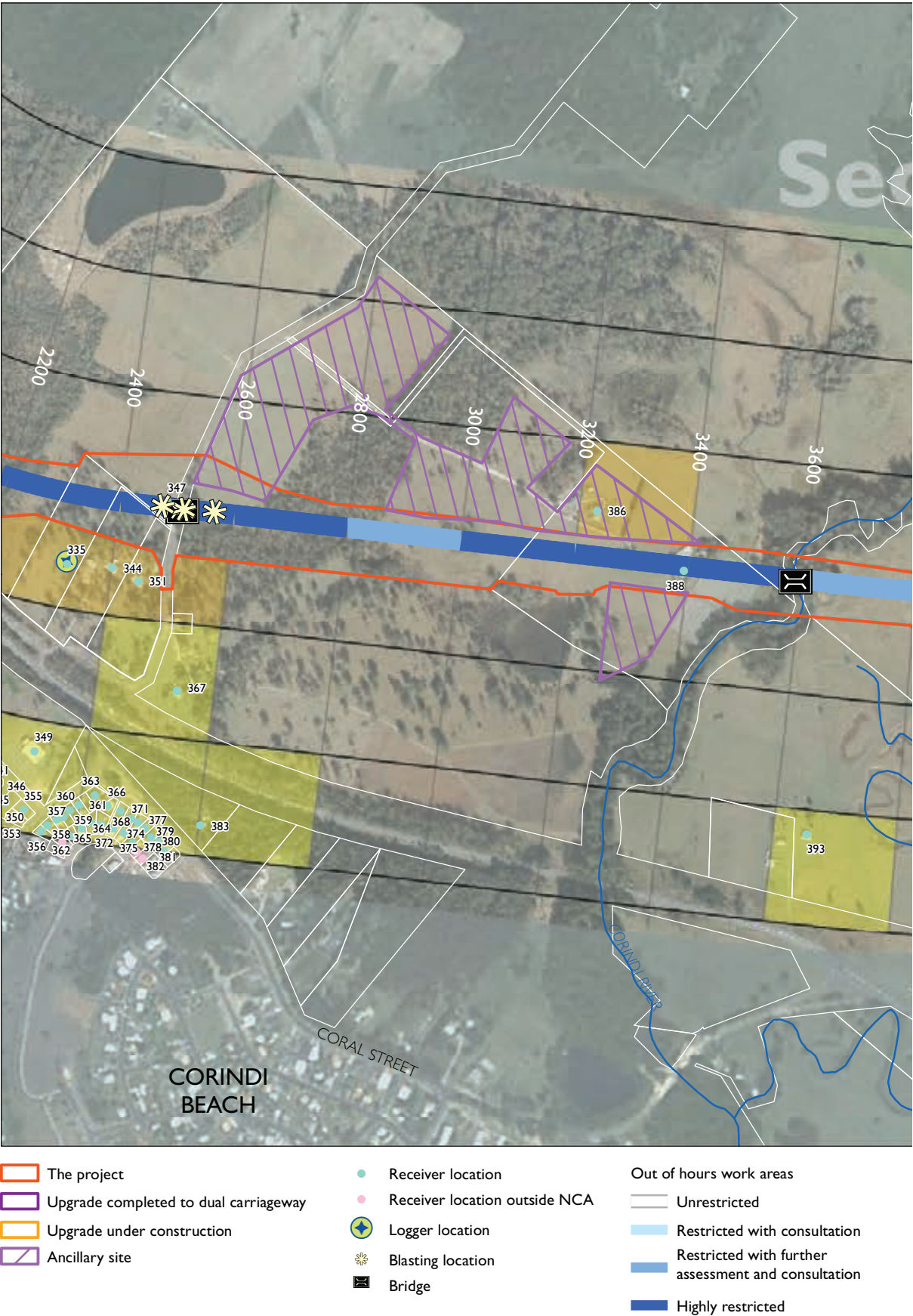


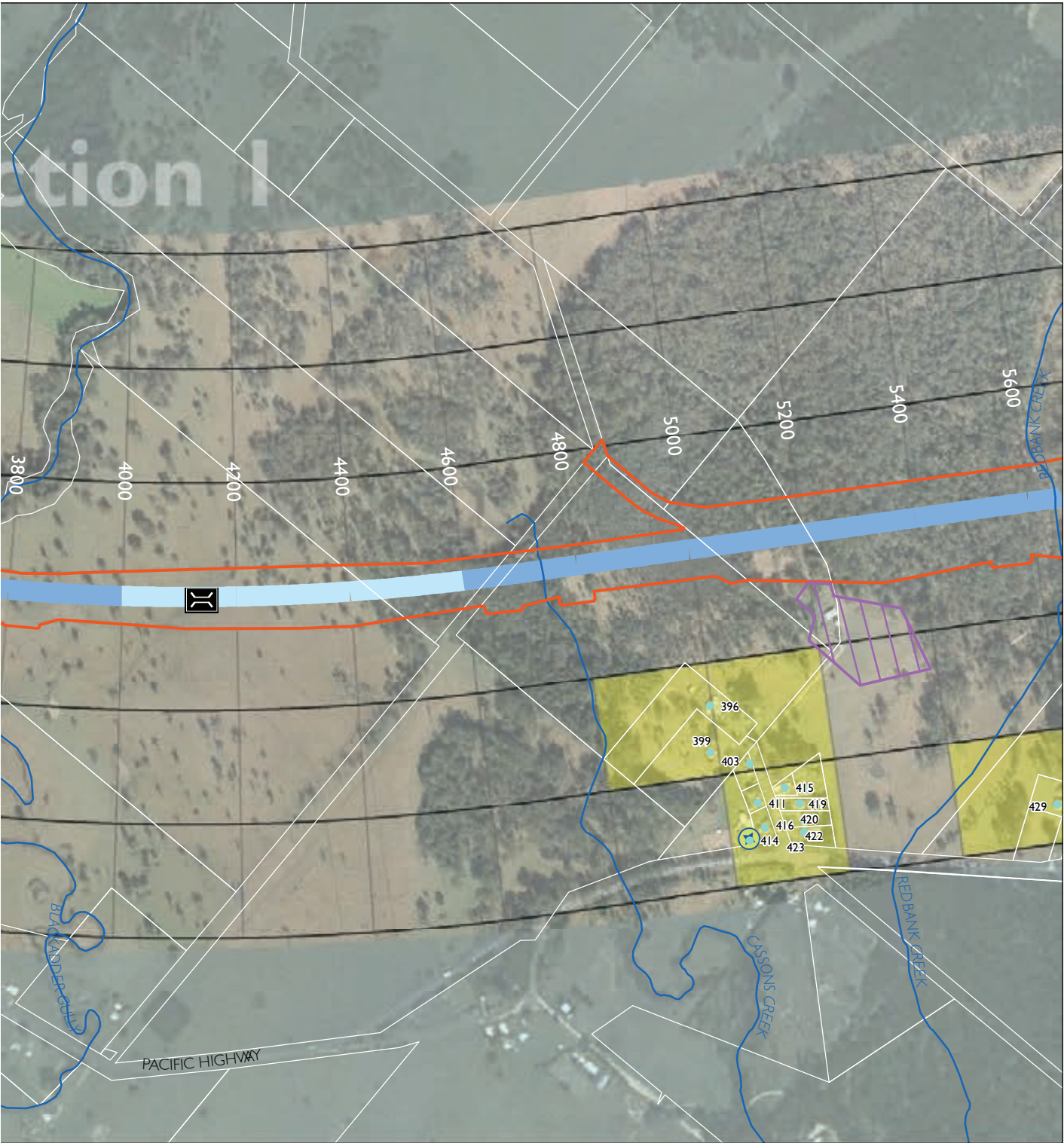
1:10,000

SHEET 1 of 52



Appendix C.2 Out of hours construction impacts - paving and asphaltting





I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

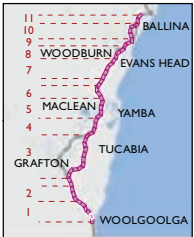
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

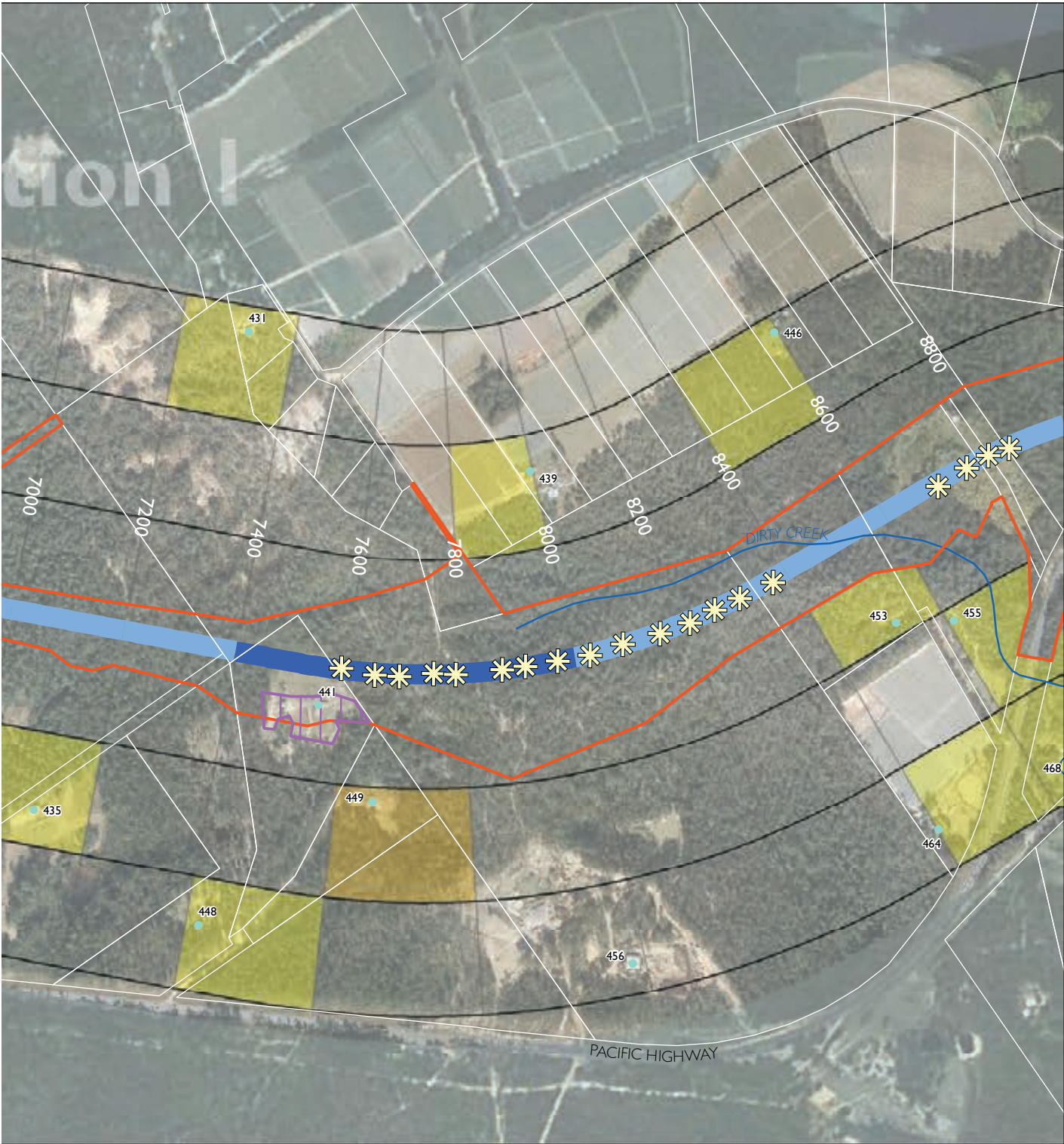
SHEET 2 of 52



Appendix C.3 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

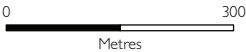


I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

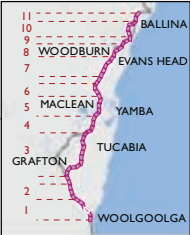
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones		
Zone F		
Zone E		
Zone D		
Zone C	200m	
Zone B	200m	
Zone A		



1:10,000

SHEET 3 of 52



Appendix C.4 Out of hours construction impacts - paving and asphaltting



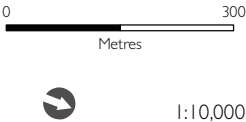


I:\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

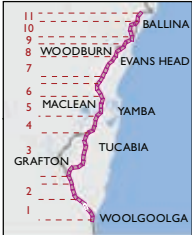
Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

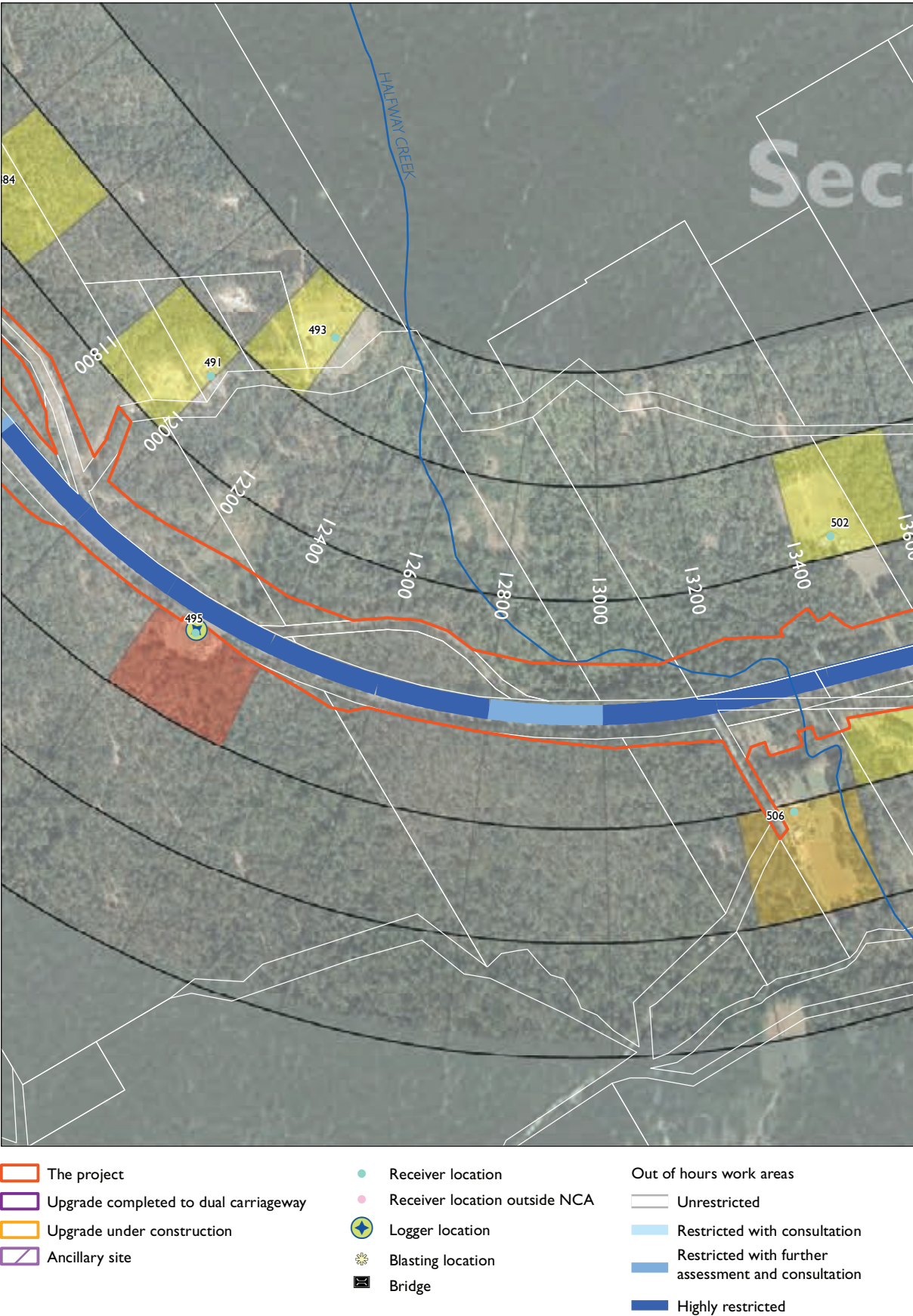
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	



SHEET 4 of 52



Appendix C.5 Out of hours construction impacts - paving and asphaltting



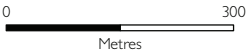


I:\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

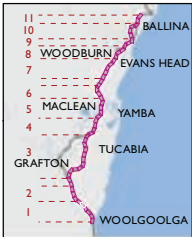
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones		
Zone F		
Zone E		
Zone D		
Zone C	200m	
Zone B	200m	
Zone A		



1:10,000

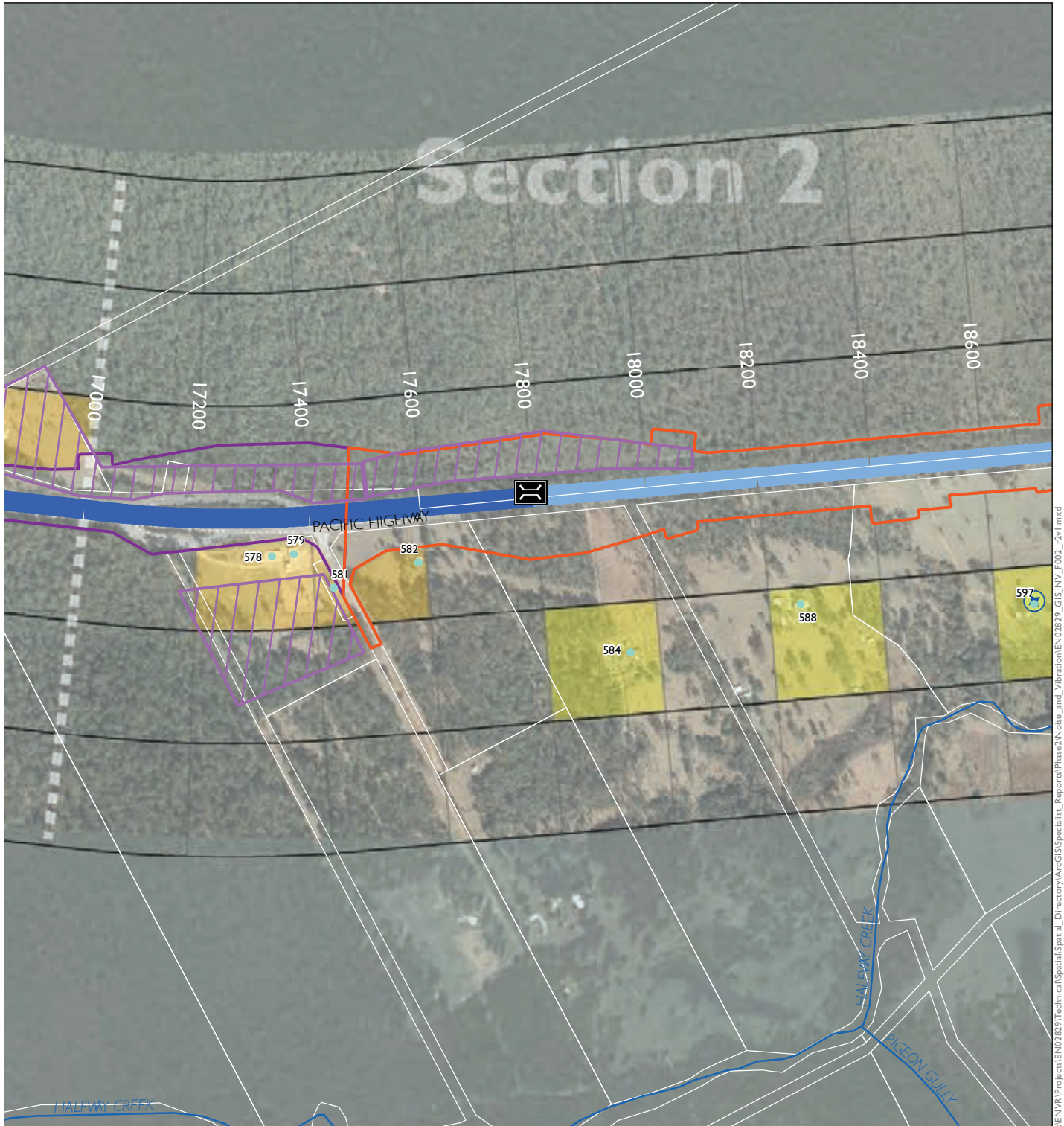
SHEET 5 of 52



Appendix C.6 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

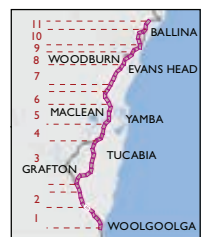
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

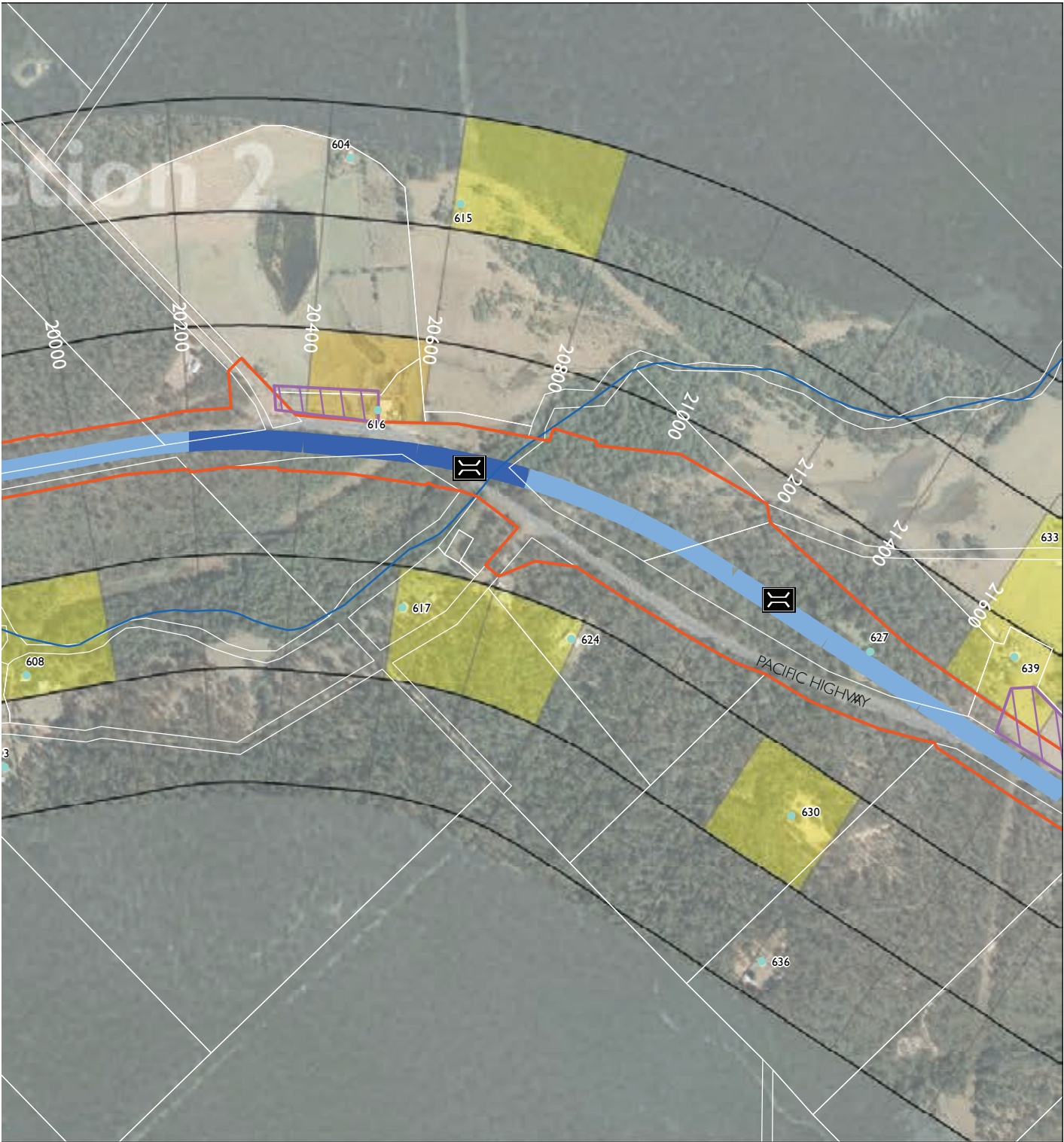
SHEET 6 of 52



Appendix C.7 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

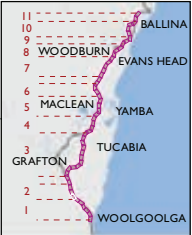
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

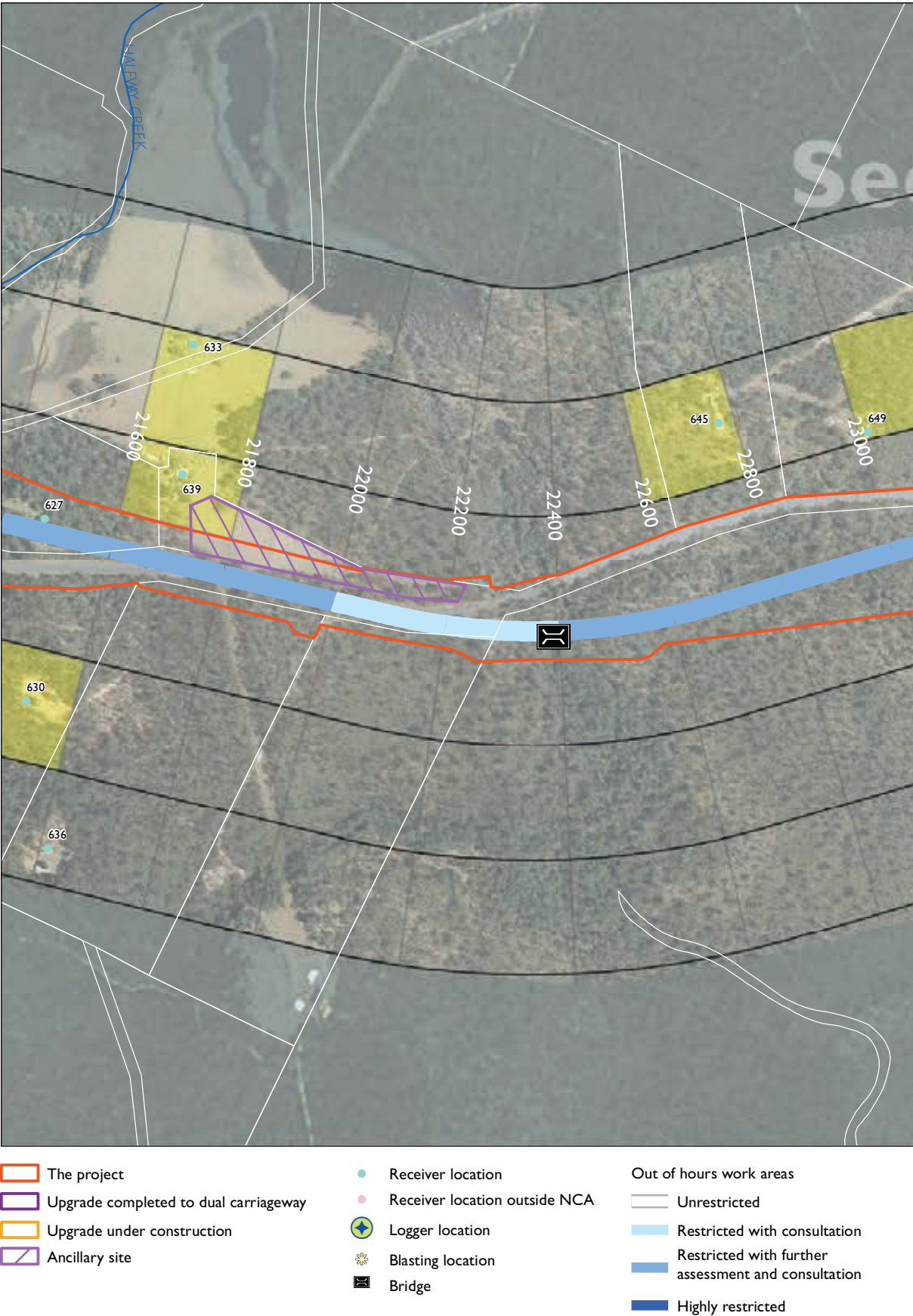


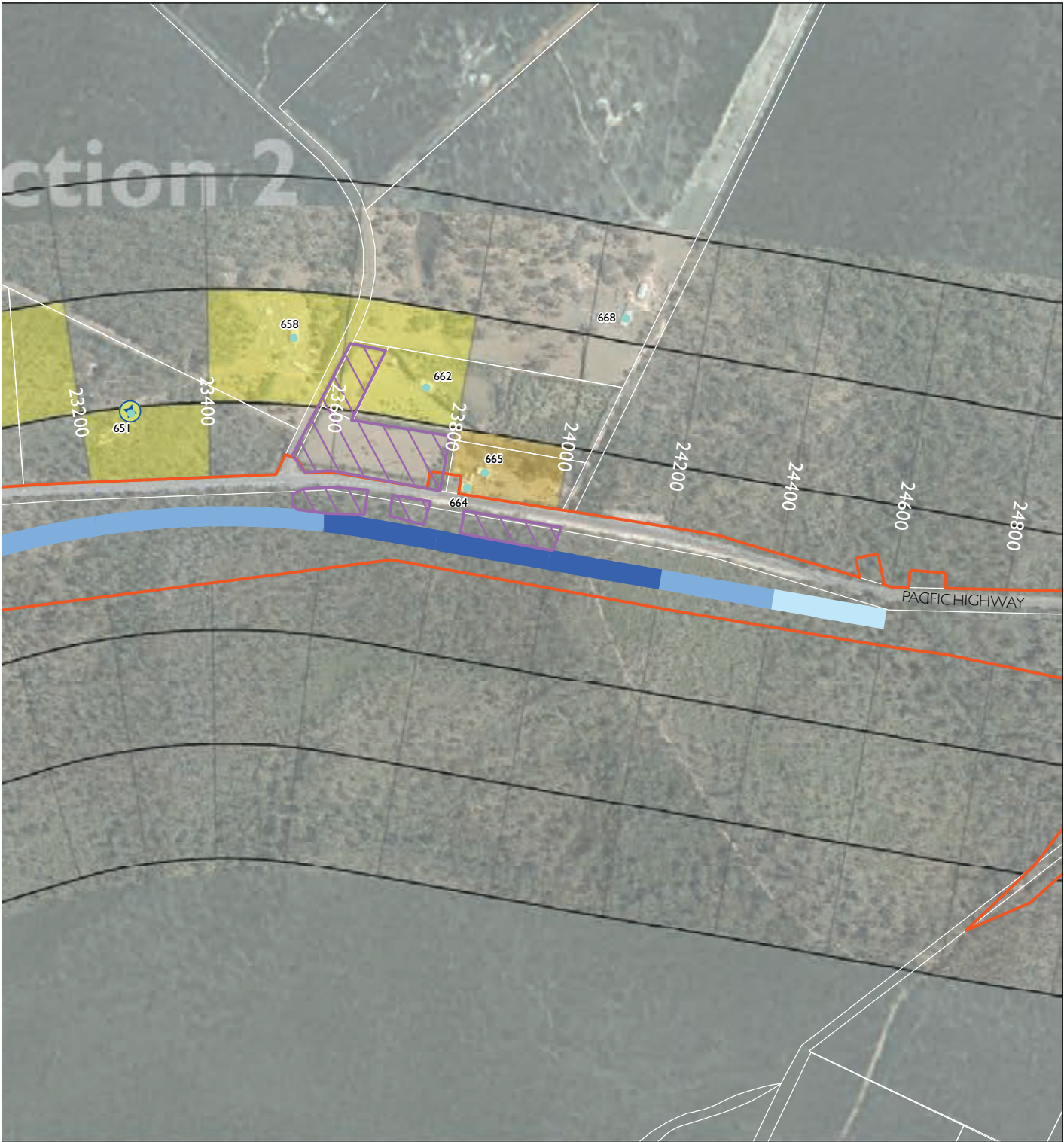
1:10,000

SHEET 7 of 52



Appendix C.8 Out of hours construction impacts - paving and asphaltting



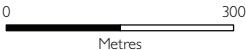


I:\ENVR\Projects\EN028296\Technical\Spatial\Directory\ArcGIS\Specialists_Reports\Phase2\Noise_and_Vibration\EN028296.mxd

Out of hours impact areas

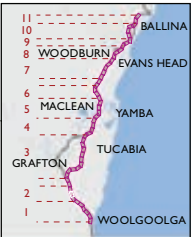
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

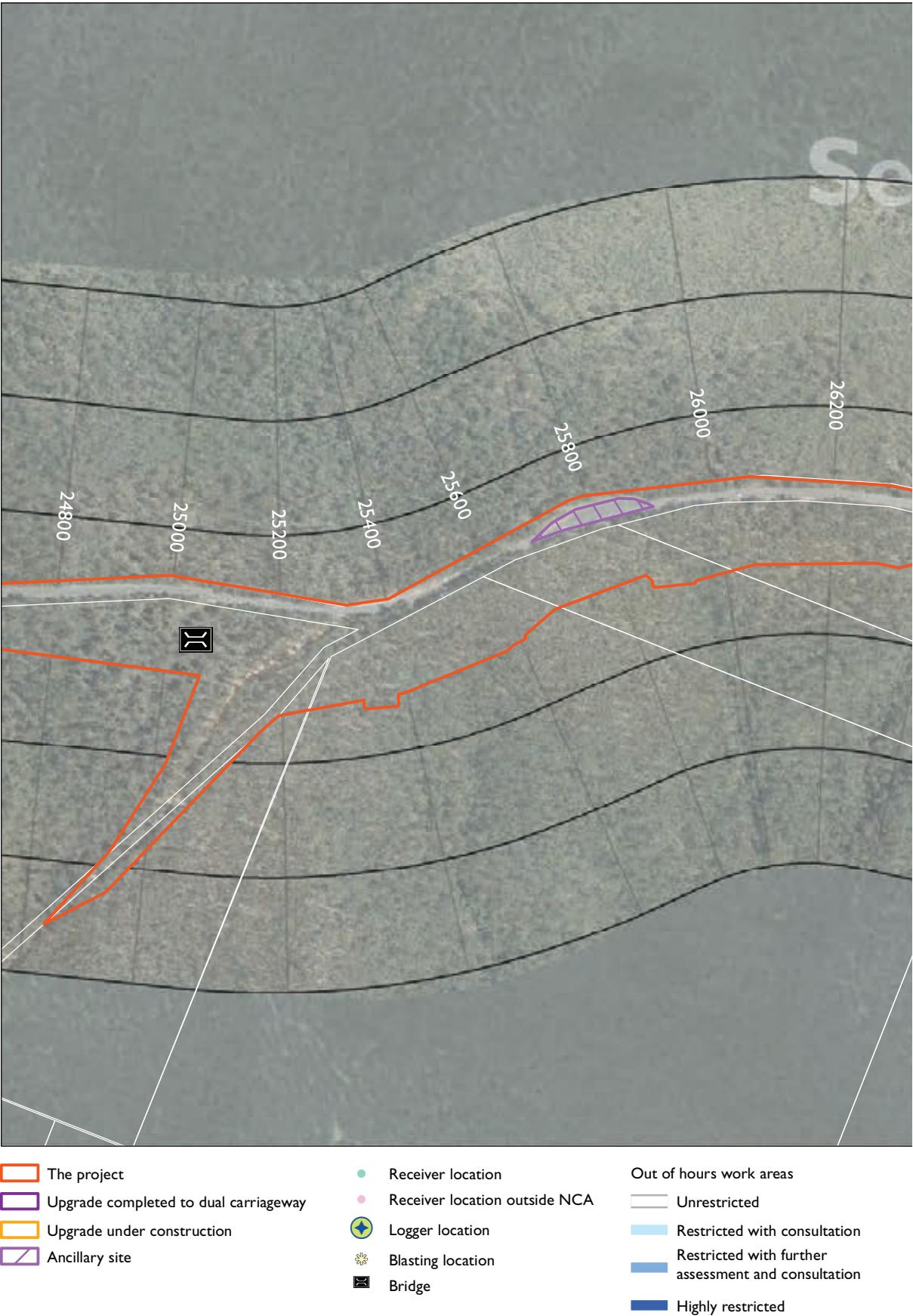


1:10,000

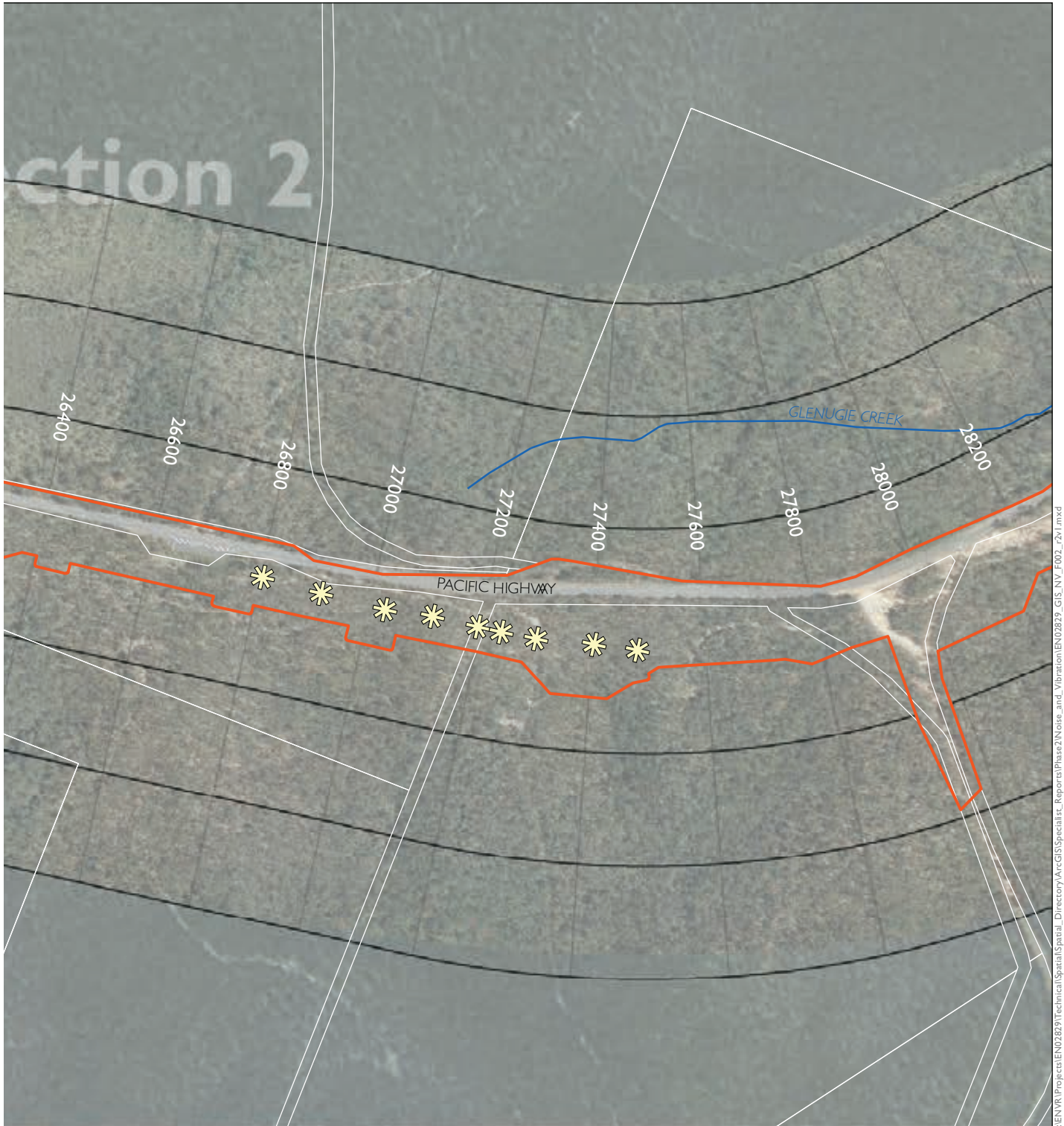
SHEET 8 of 52



Appendix C.9 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

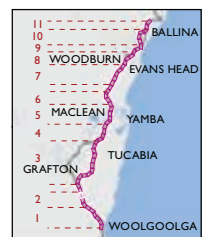
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

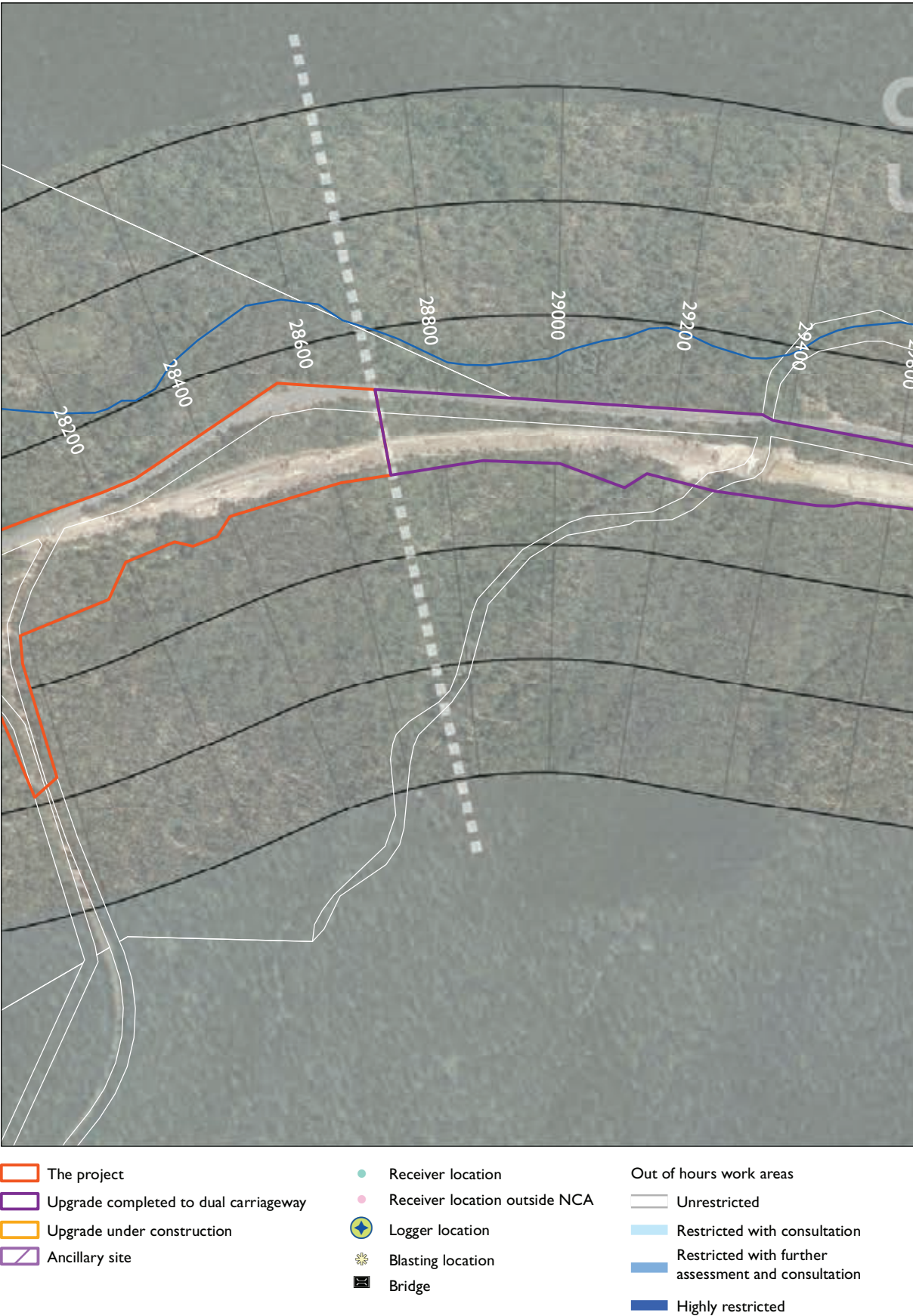


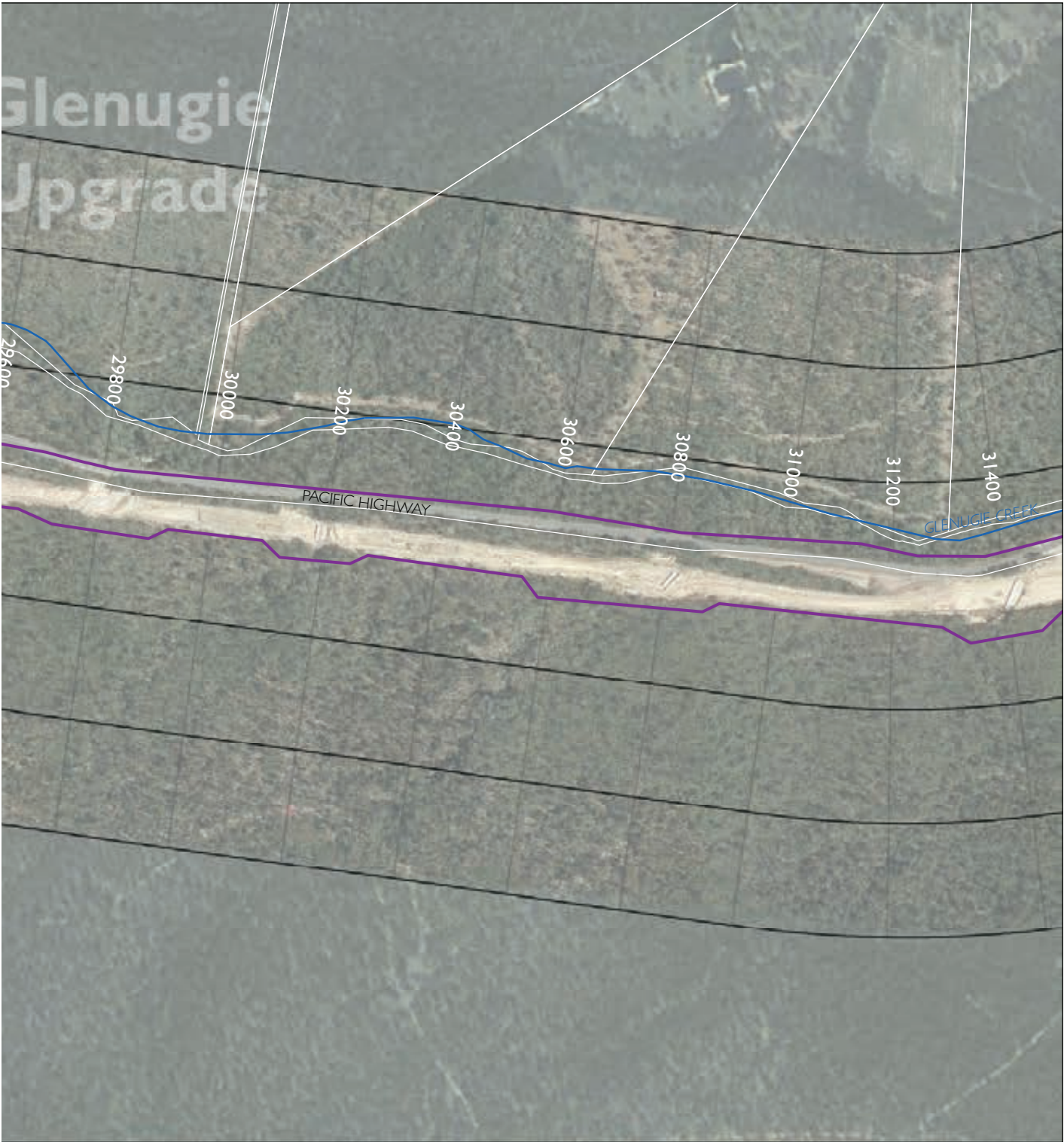
1:10,000

SHEET 9 of 52



Appendix C.10 Out of hours construction impacts - paving and asphaltting



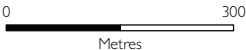


I:\ENVR\Projects\EN028291\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

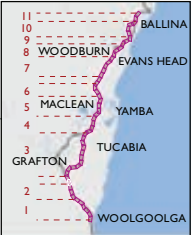
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	



1:10,000

SHEET 10 of 52



Appendix C.11 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN402829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN402829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

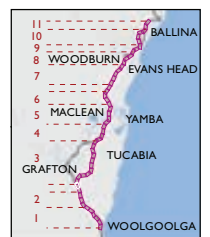
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



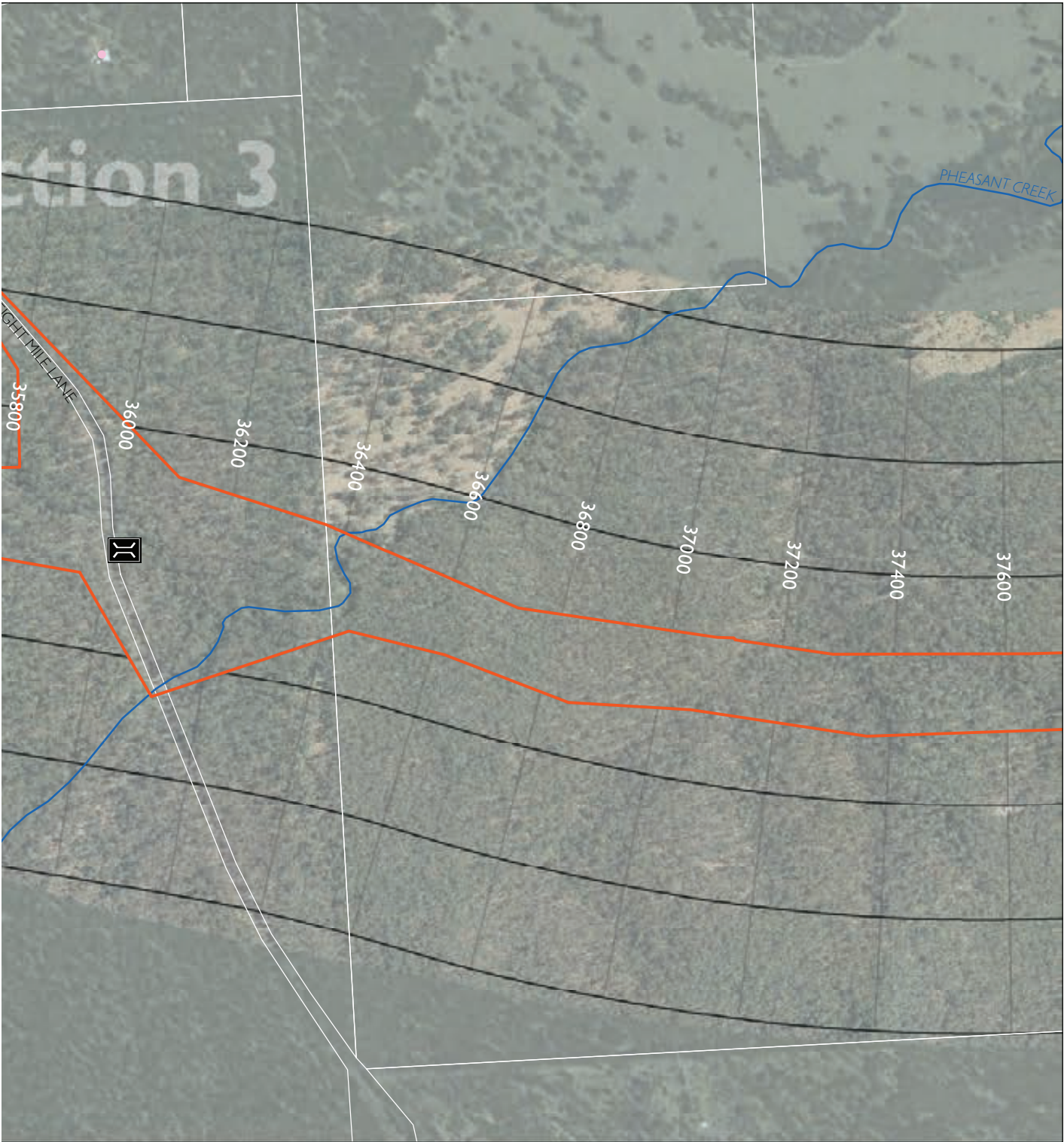
1:10,000

SHEET 11 of 52



Appendix C.12 Out of hours construction impacts - paving and asphaltting





\\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_NV_F002.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

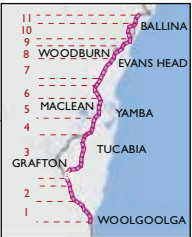
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

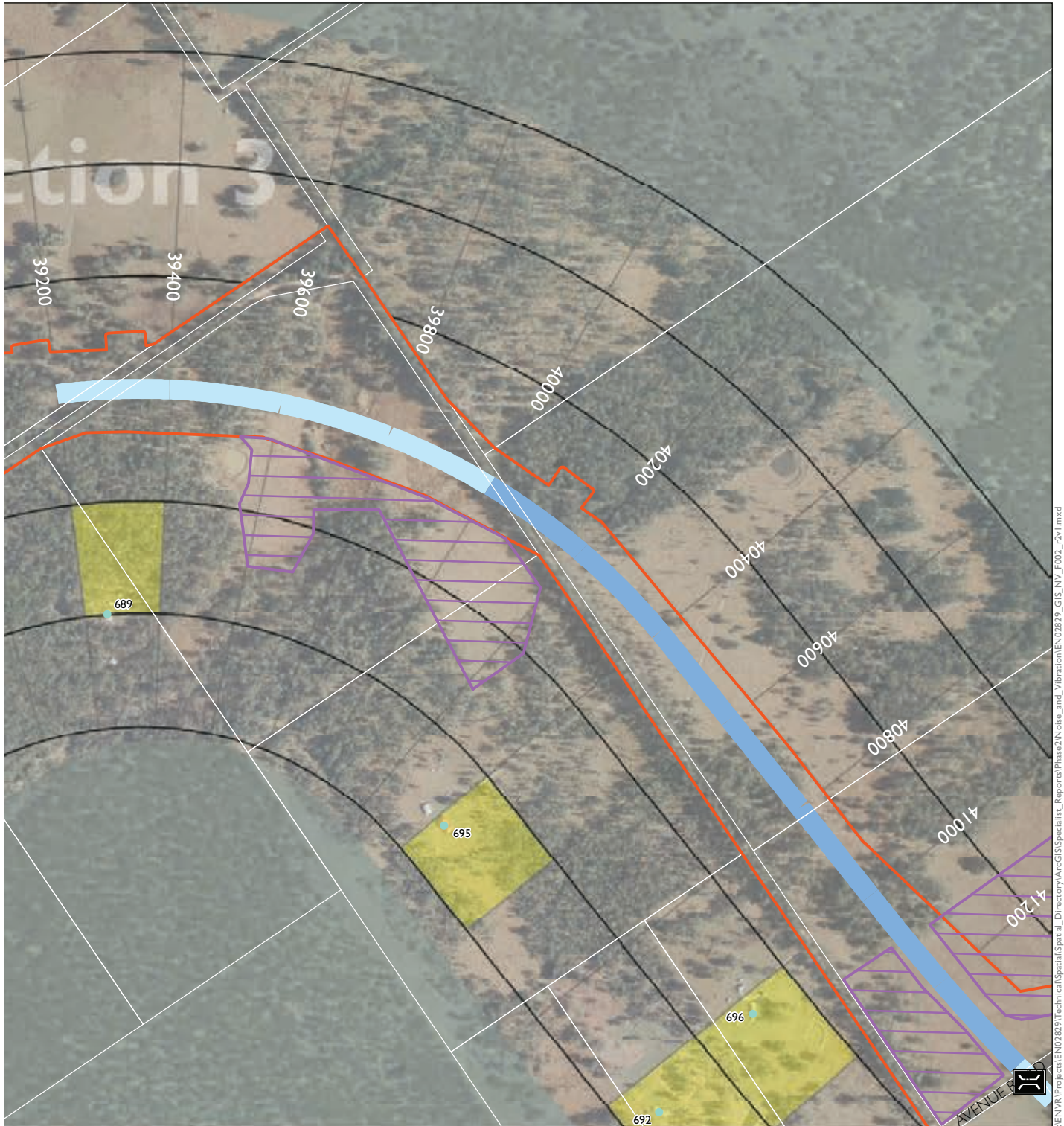
SHEET 12 of 52



Appendix C.13 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

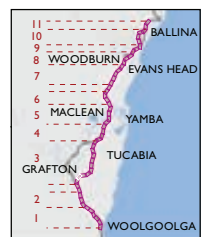
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

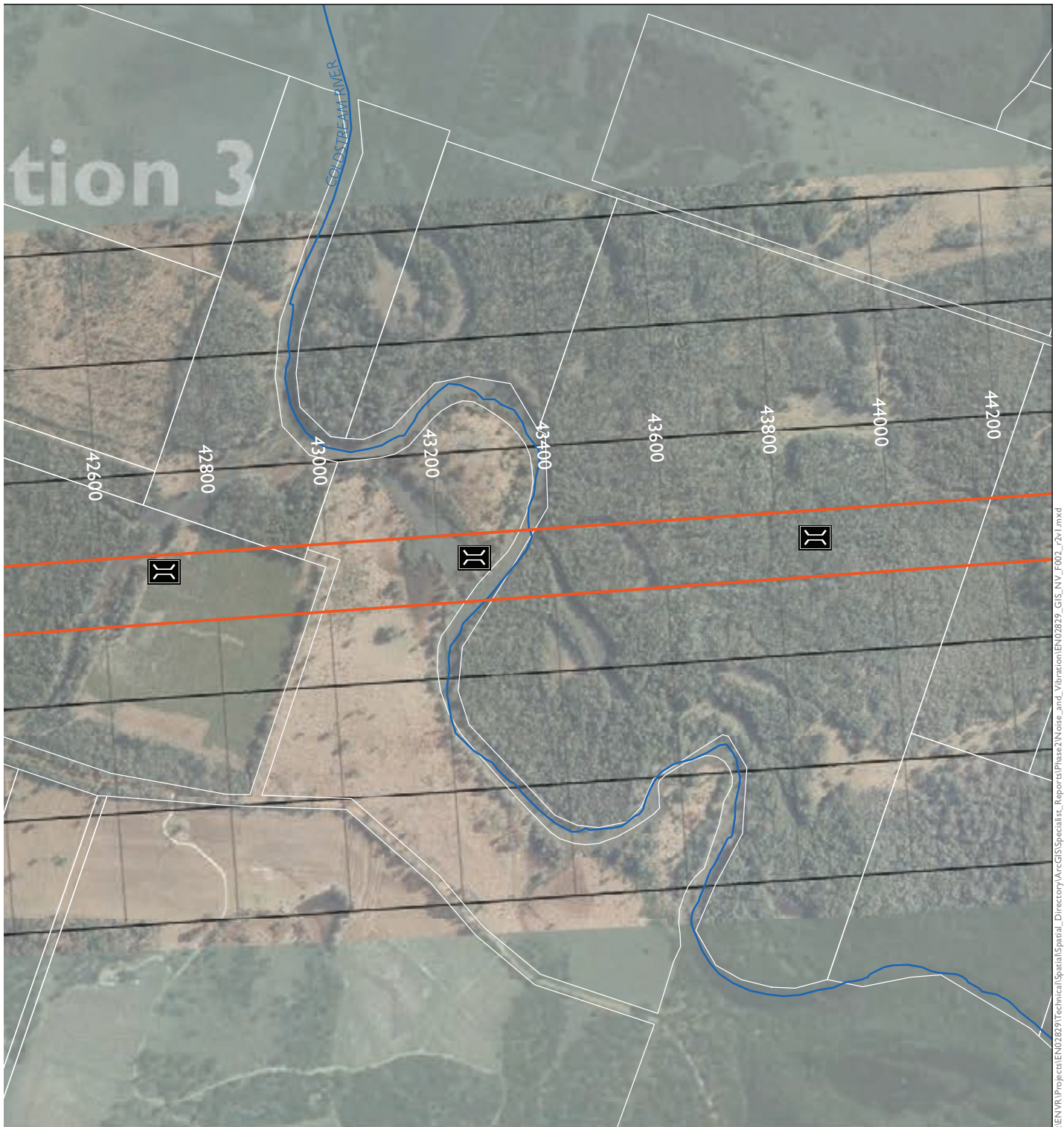
SHEET 13 of 52



Appendix C.14 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN028291\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN028291_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

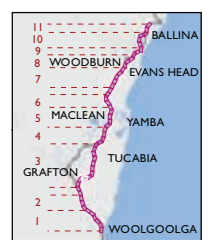
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



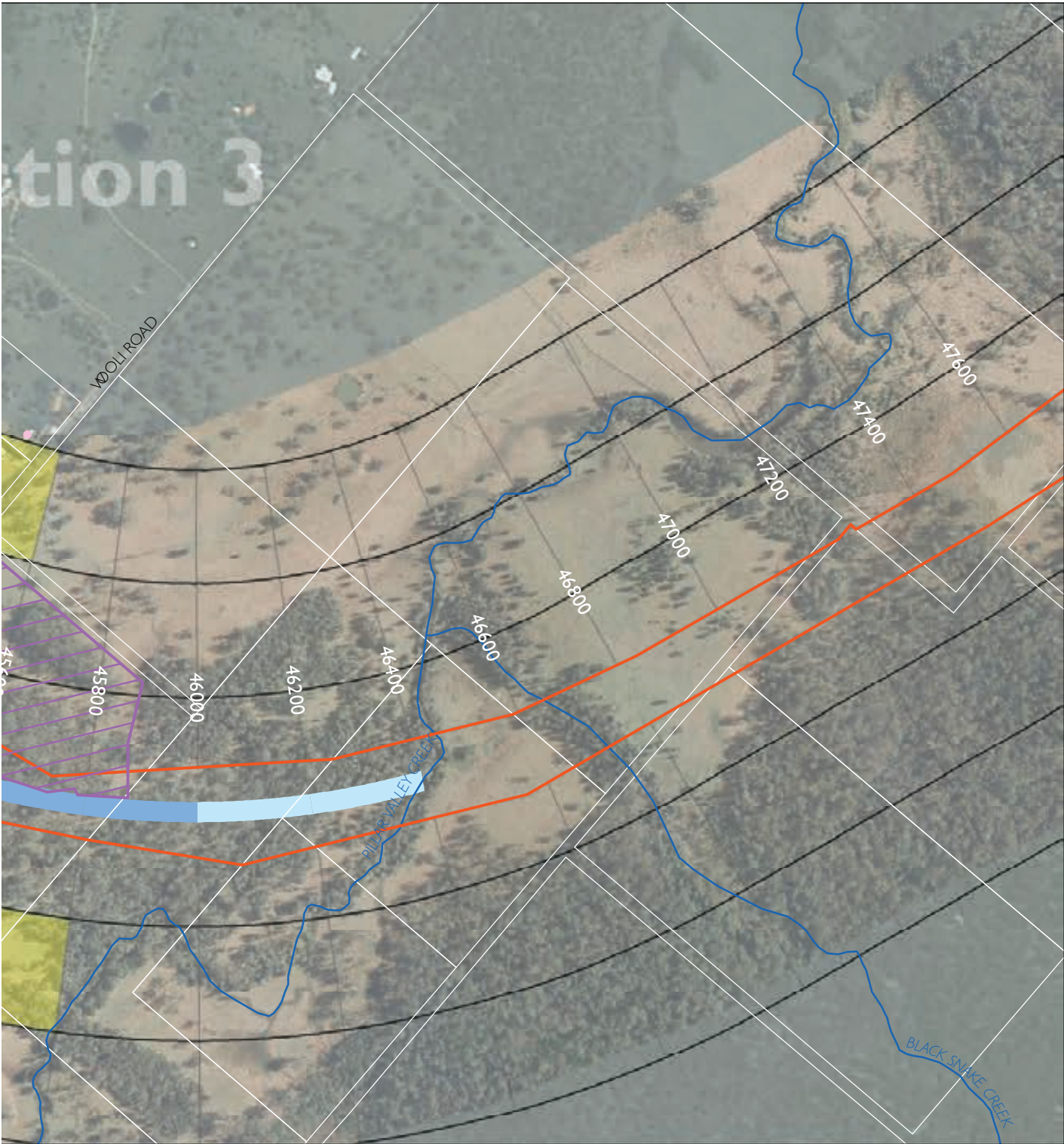
1:10,000

SHEET 14 of 52



Appendix C.15 Out of hours construction impacts - paving and asphaltting



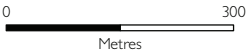


I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

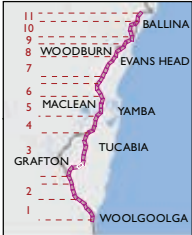
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

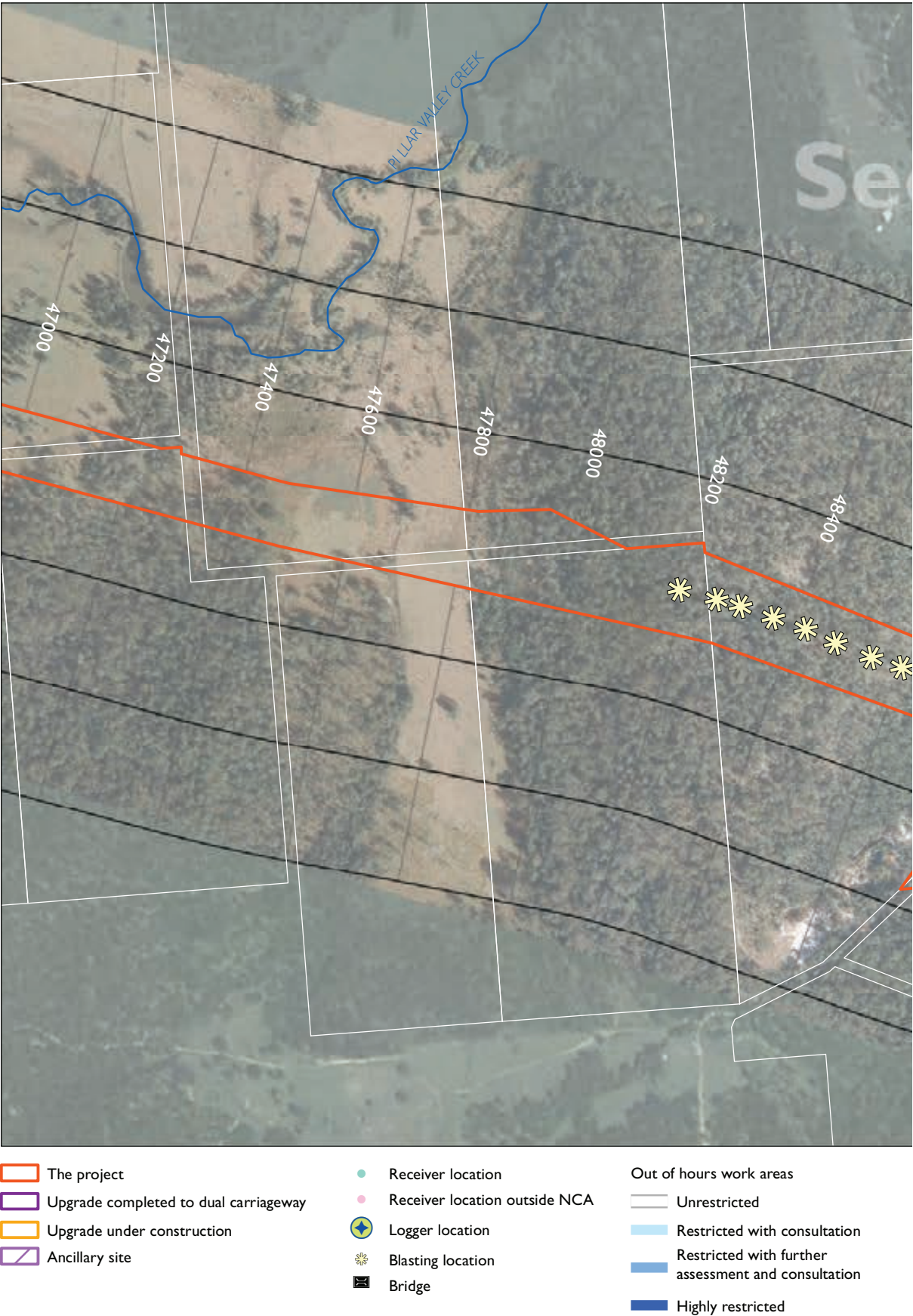


1:10,000

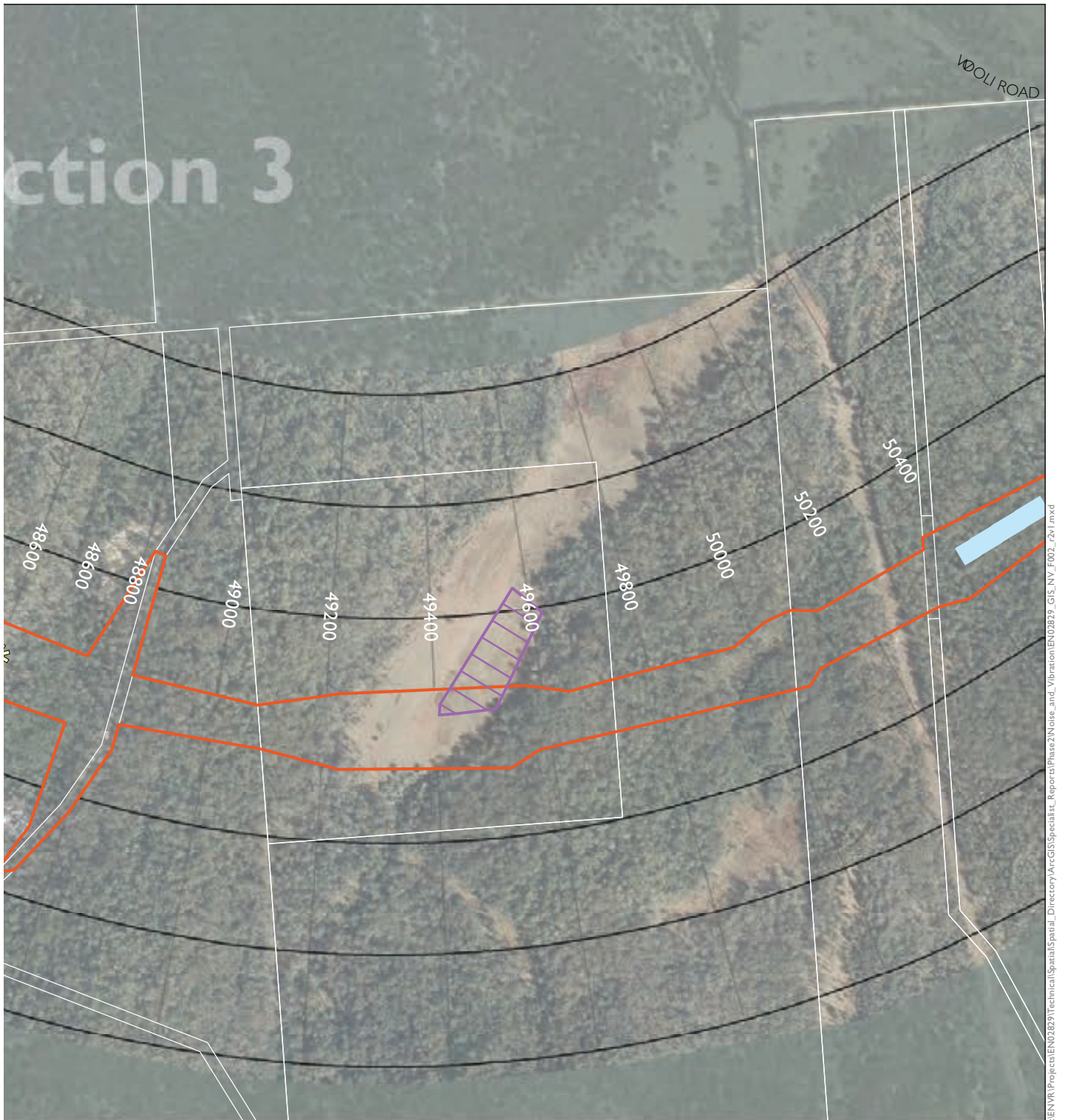
SHEET 15 of 52



Appendix C.16 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

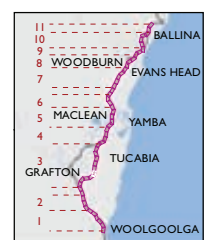
NCA Zones			
Zone F			
Zone E			
Zone D			
Zone C			
Zone B			
Zone A			

0 300
Metres



1:10,000

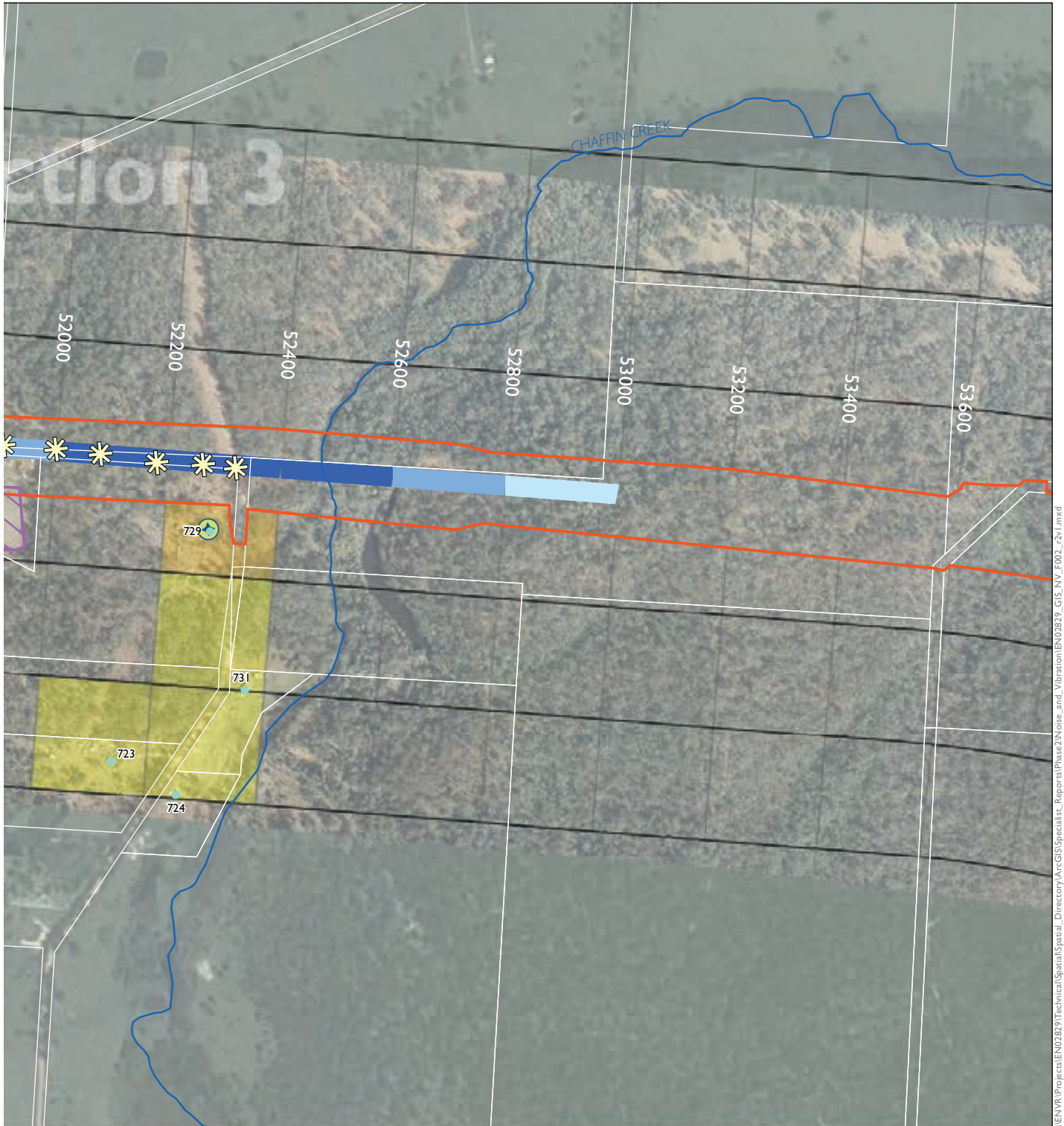
SHEET 16 of 52



Appendix C.17 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

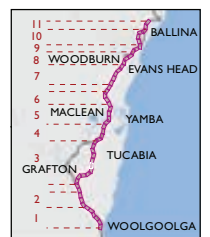
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

SHEET 17 of 52



Appendix C.18 Out of hours construction impacts - paving and asphalting



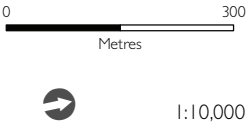


\\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

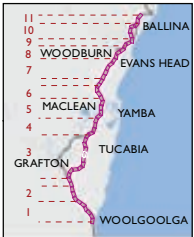
Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

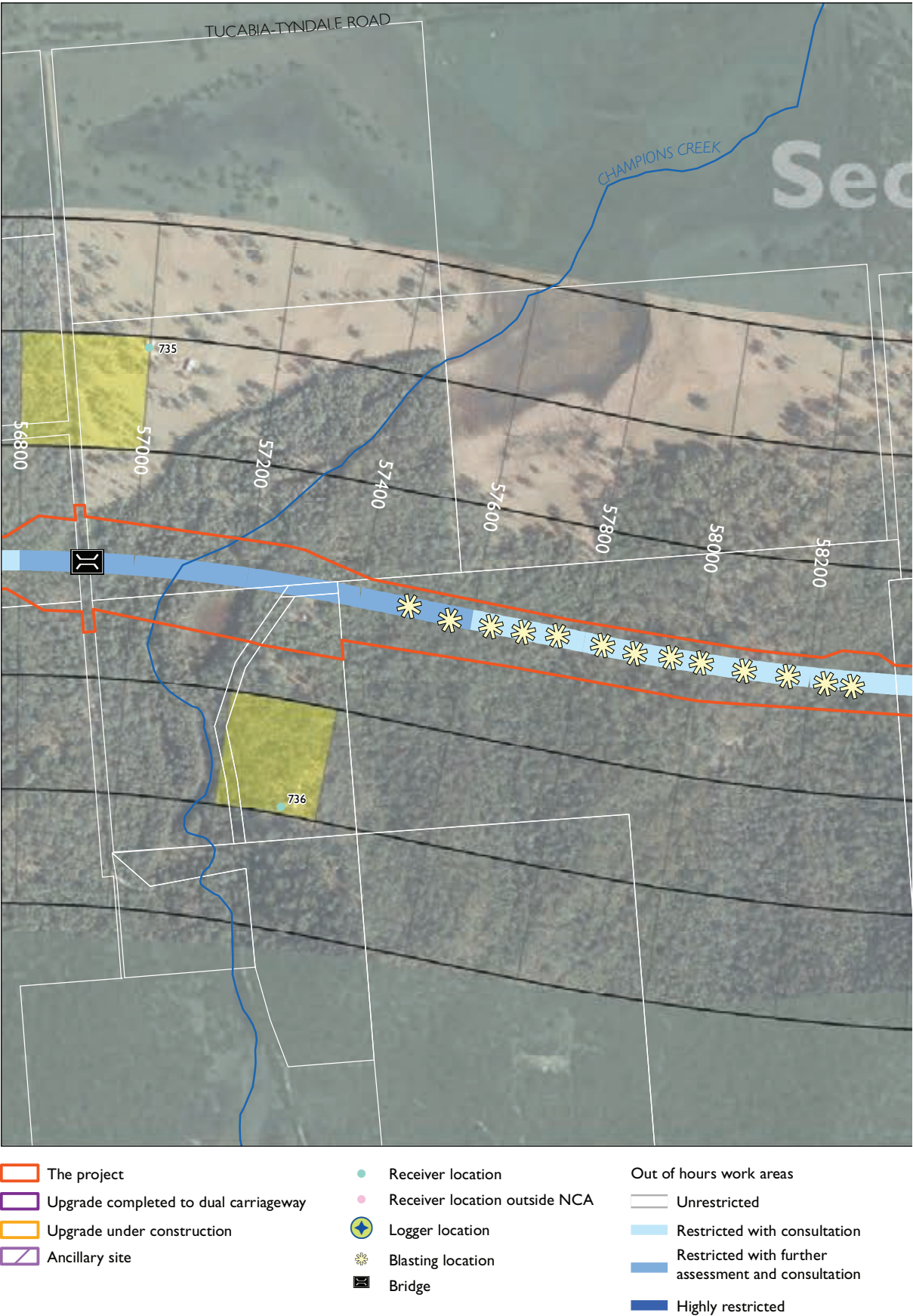
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

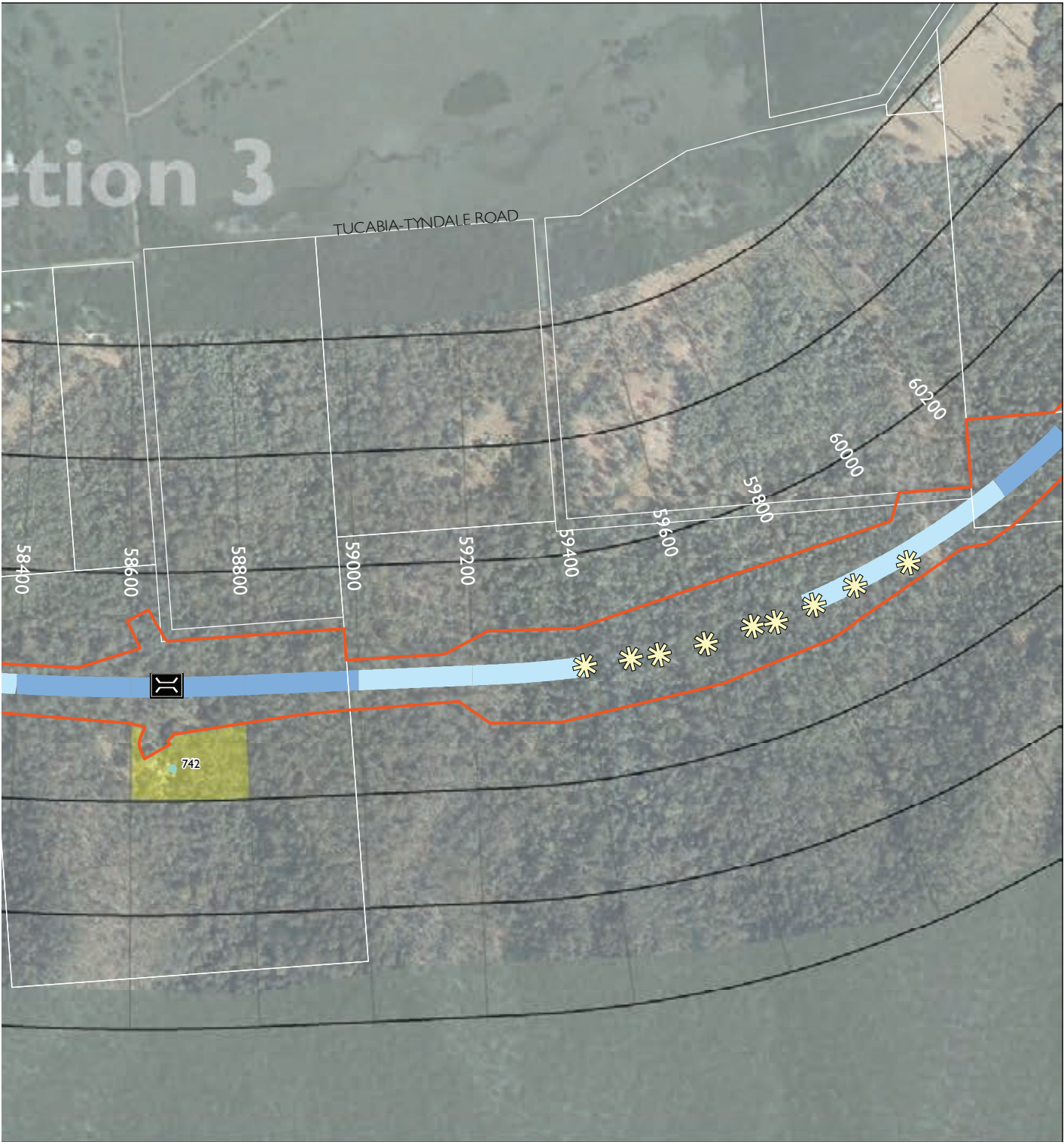


SHEET 18 of 52



Appendix C.19 Out of hours construction impacts - paving and asphaltting



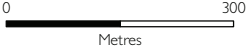


\\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

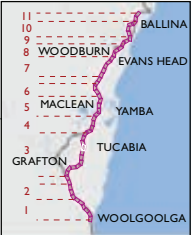
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

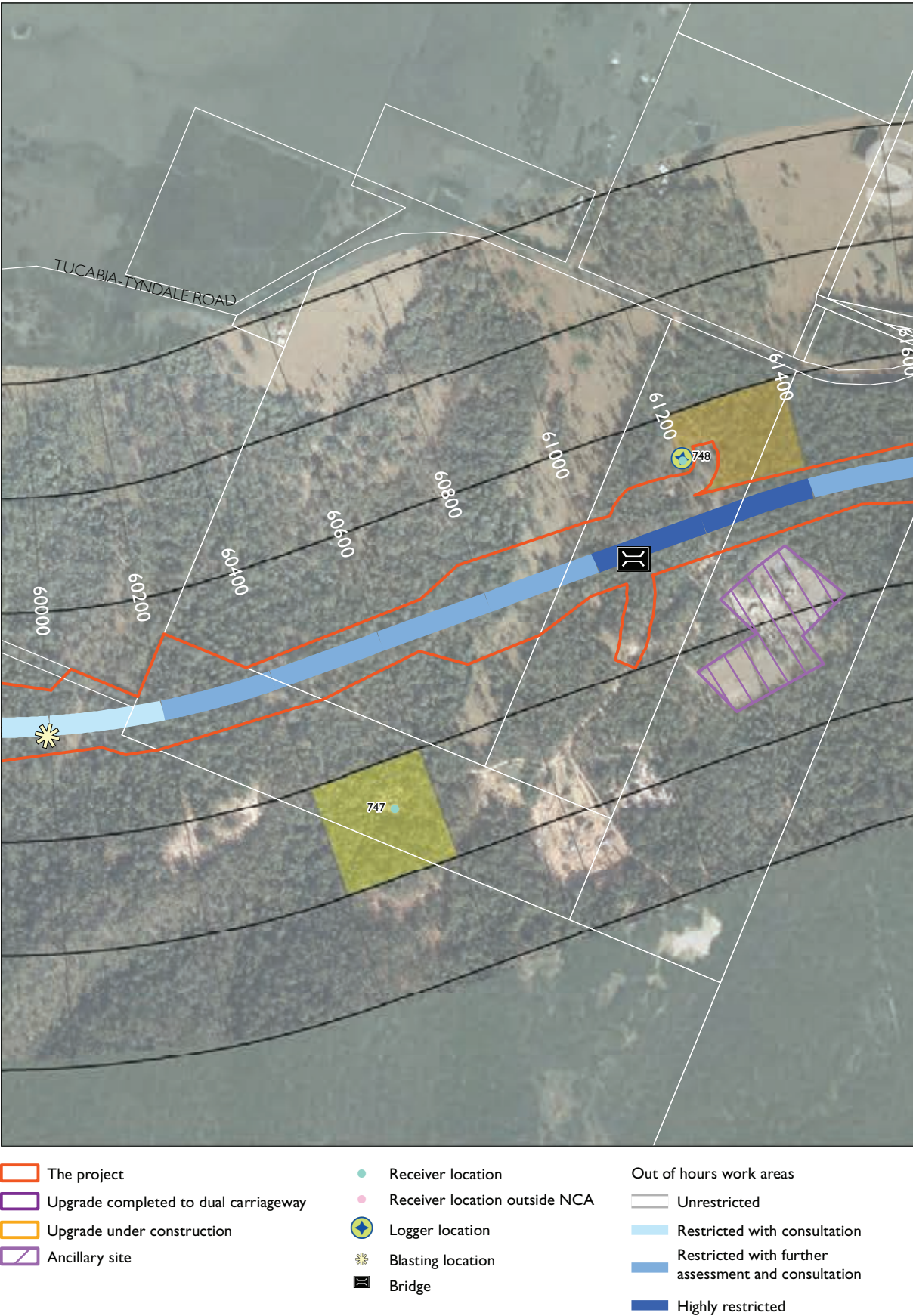


1:10,000

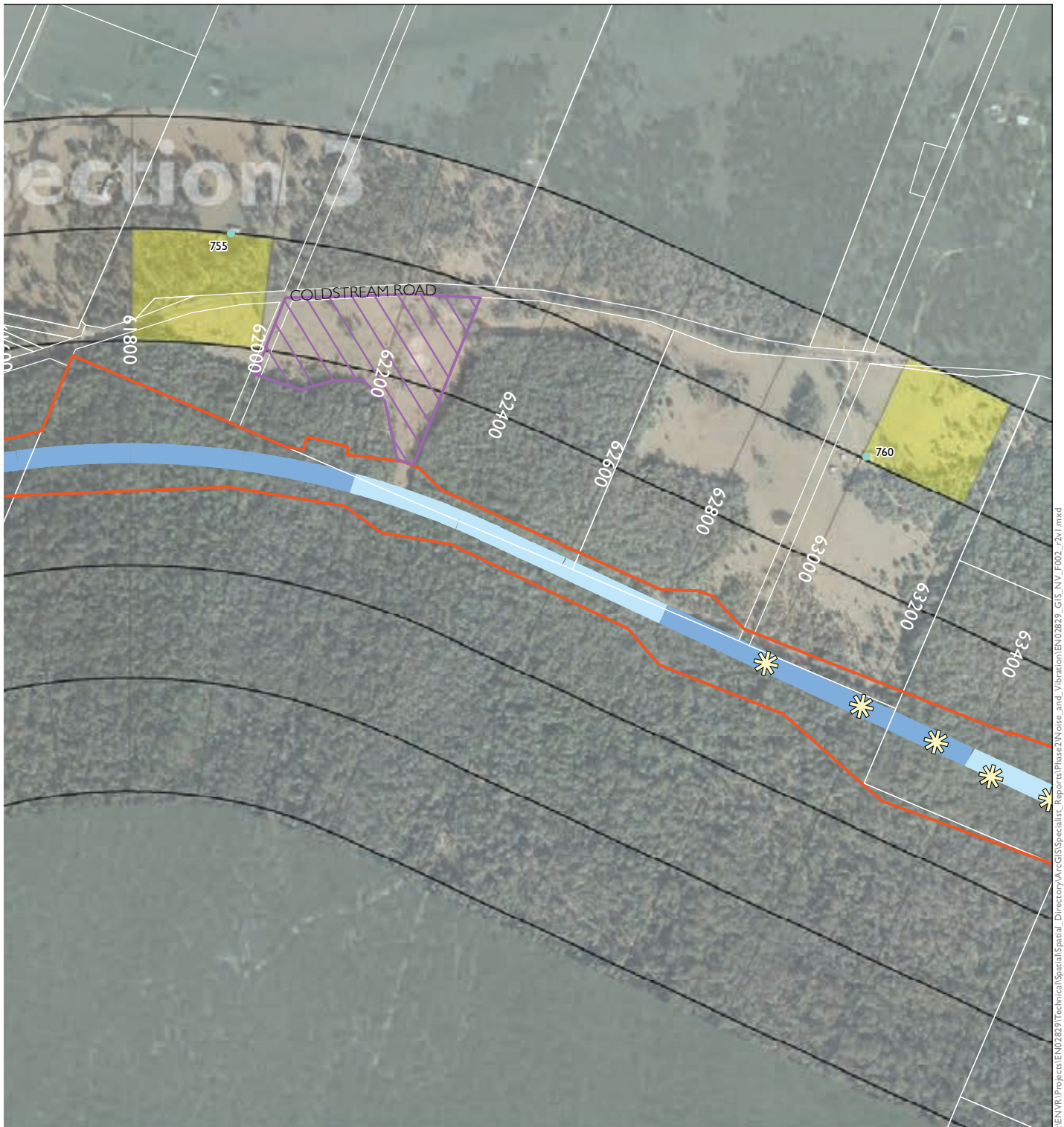
SHEET 19 of 52



Appendix C.20 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

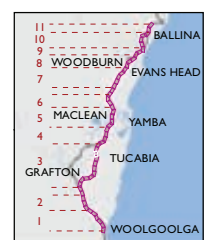
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

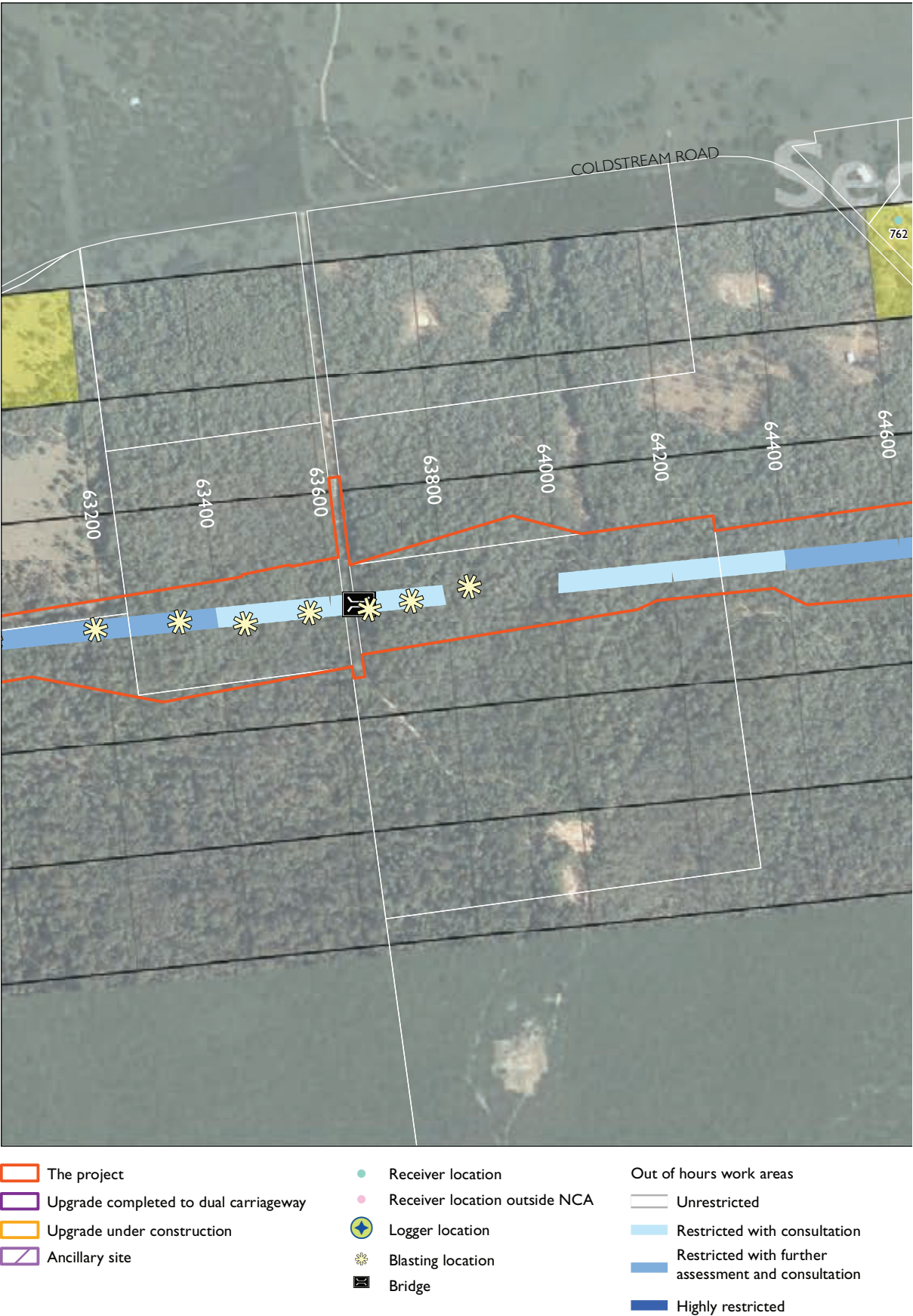


1:10,000

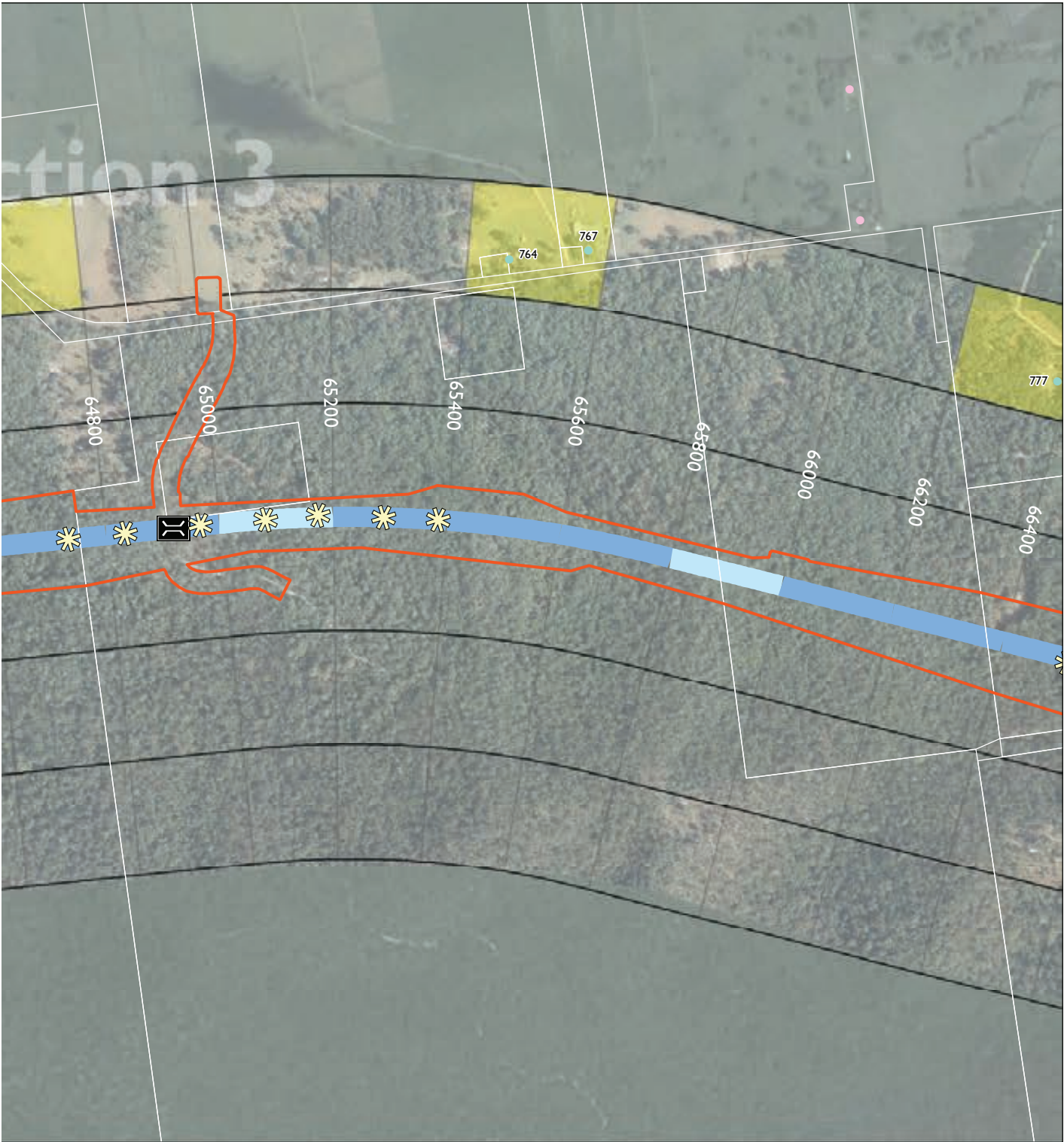
SHEET 20 of 52



Appendix C.21 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

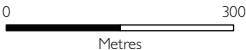


I:\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

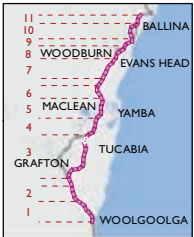
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

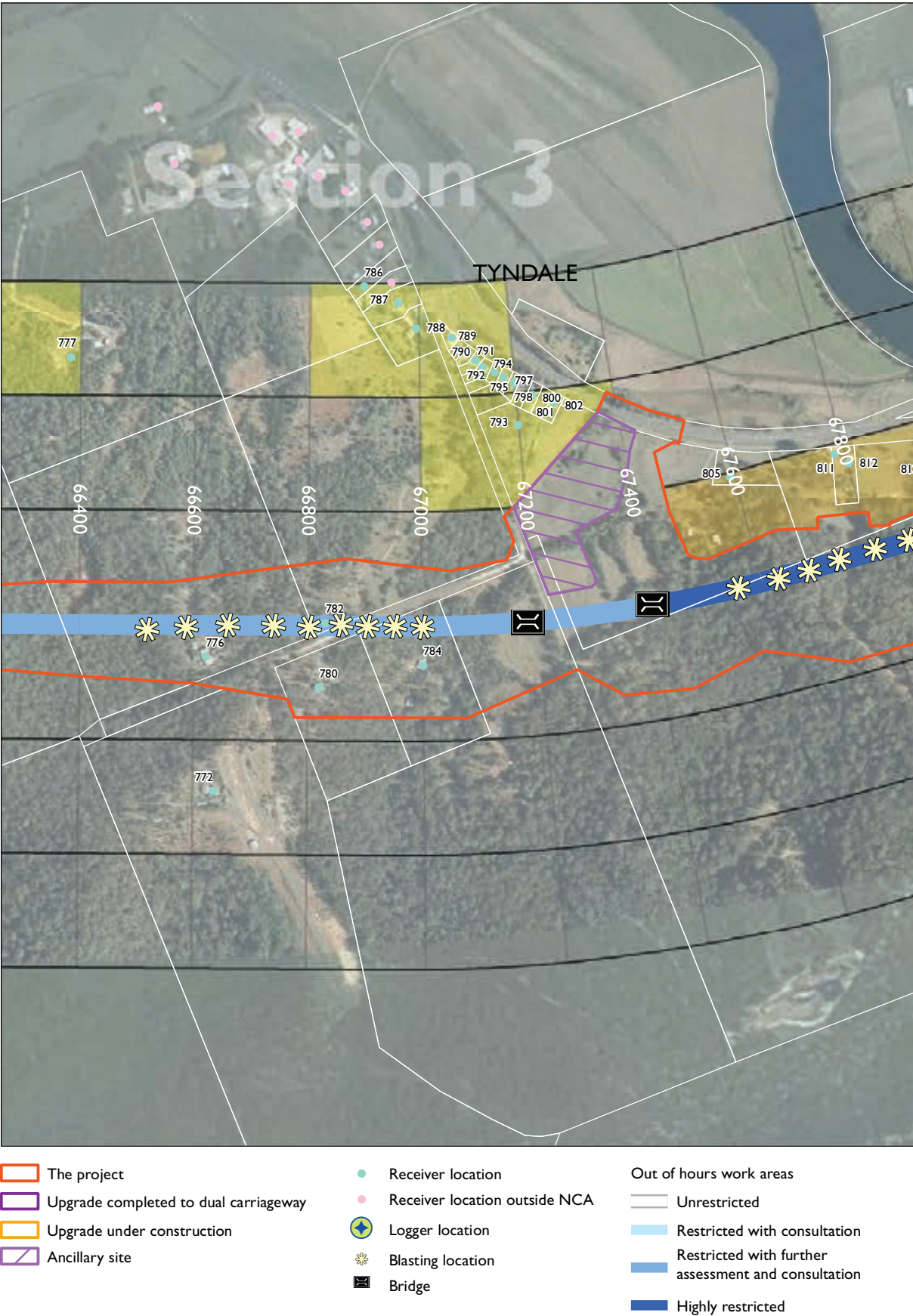


1:10,000

SHEET 21 of 52



Appendix C.22 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

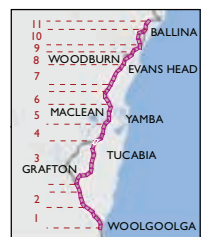
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

SHEET 22 of 52



Appendix C.23 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade

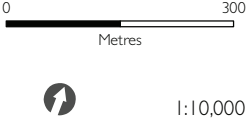


I:\ENVR\Projects\EN02829\Technical\Spatial\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

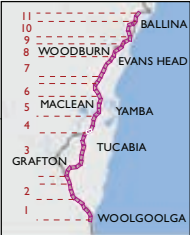
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones		
Zone F		
Zone E		
Zone D		
Zone C	200m	
Zone B	200m	
Zone A		

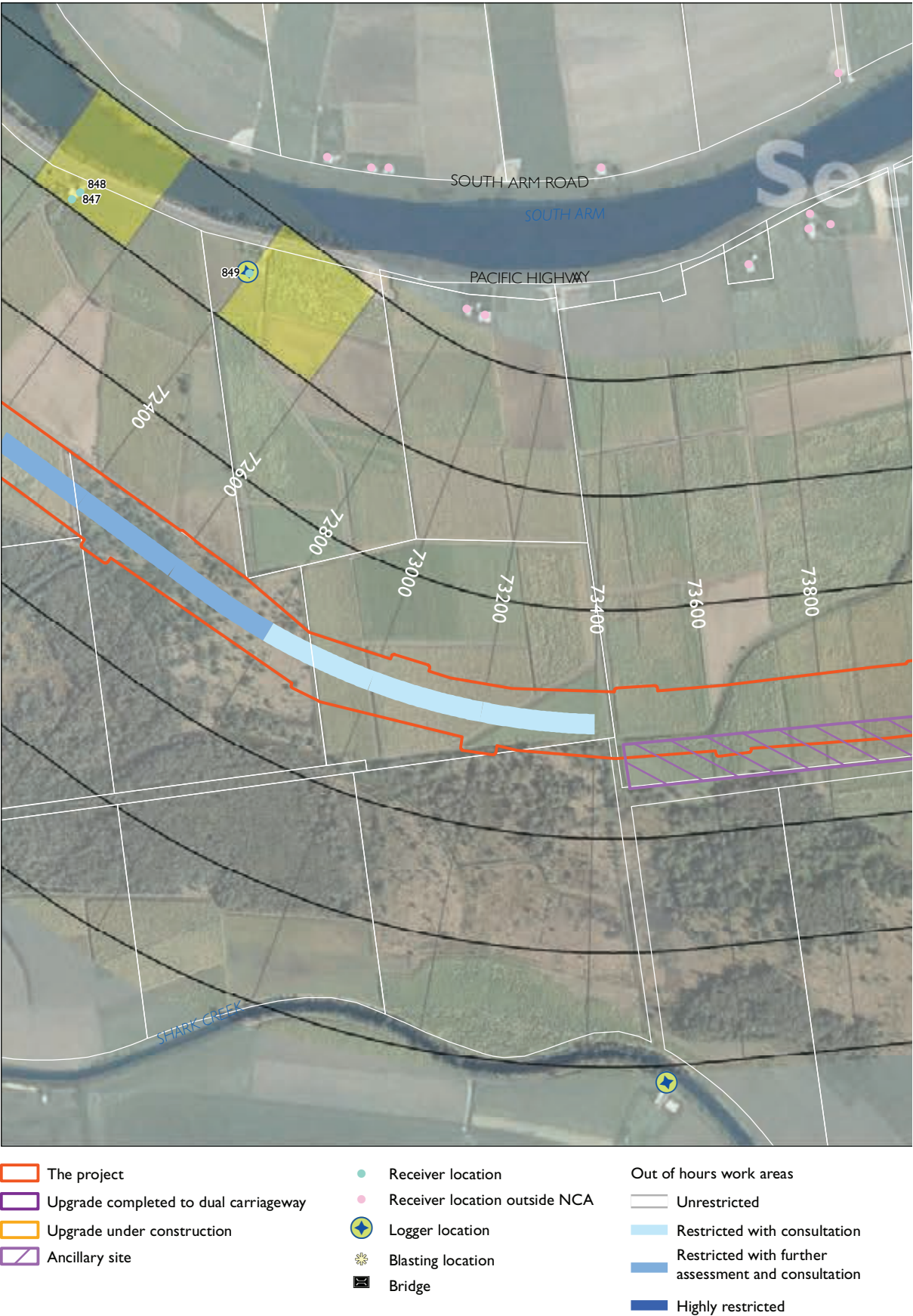


1:10,000

SHEET 23 of 52



Appendix C.24 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

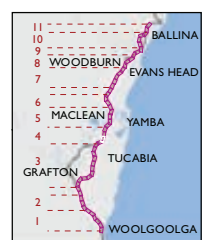
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

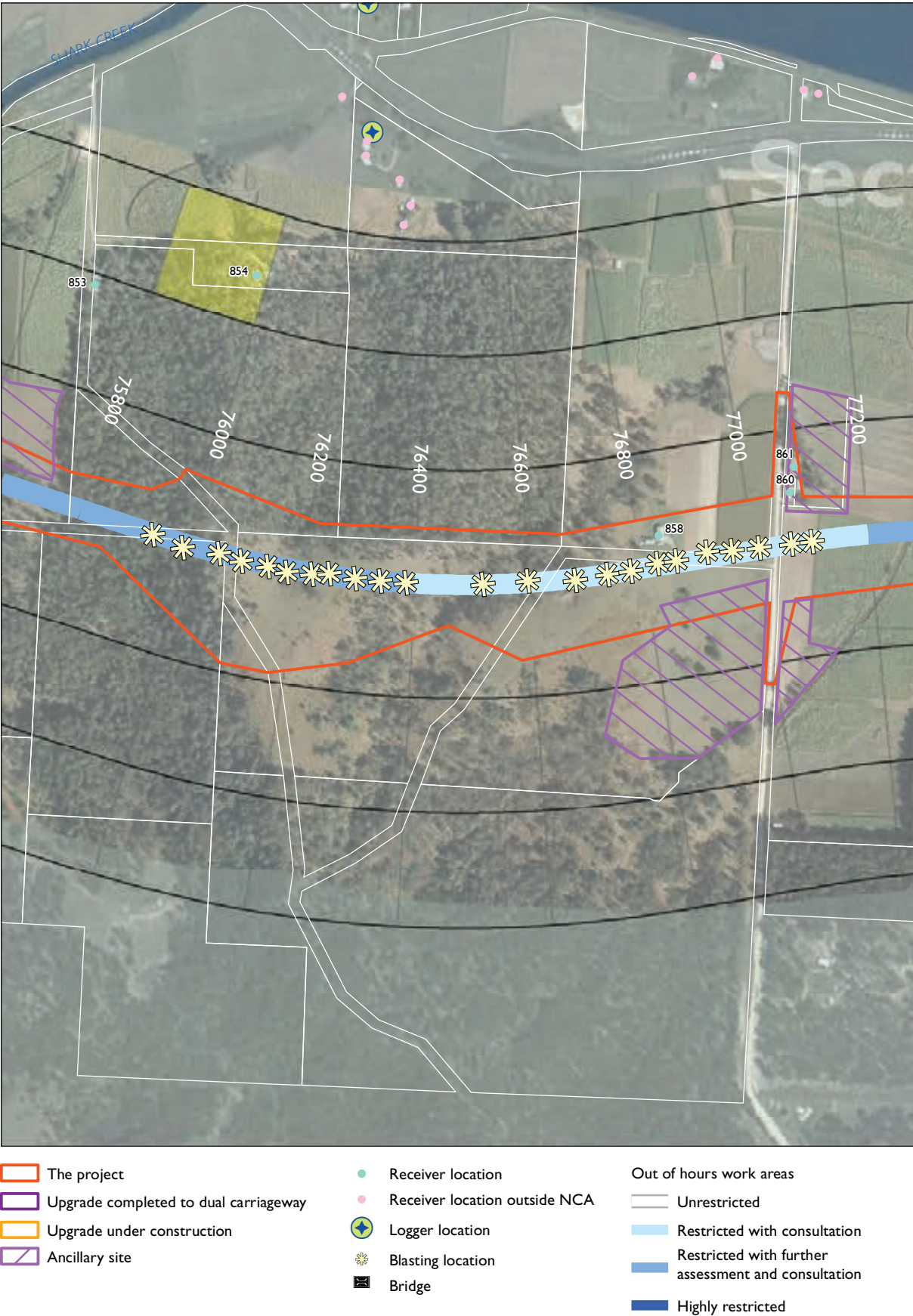


1:10,000

SHEET 24 of 52



Appendix C.25 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

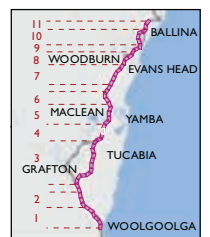
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

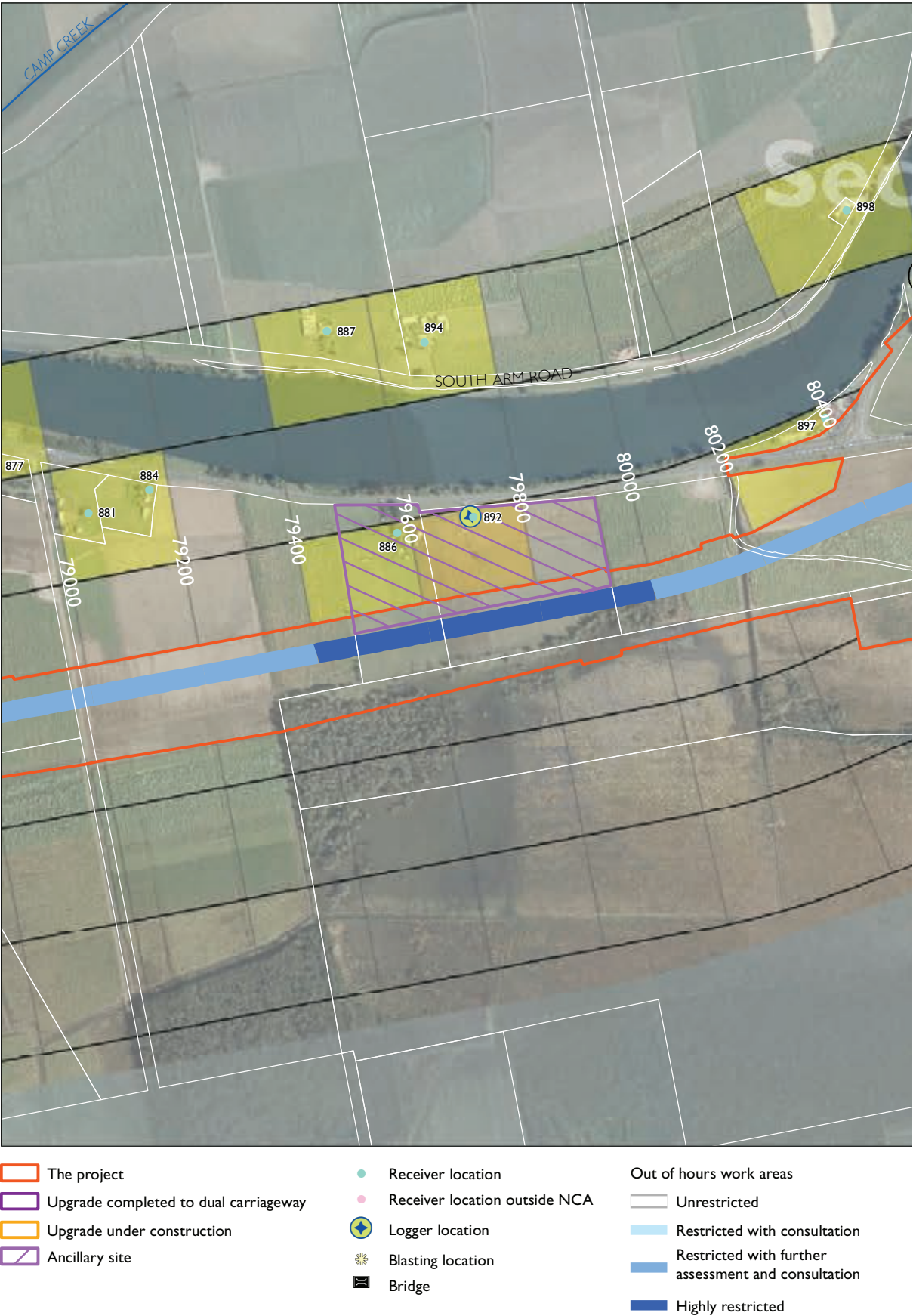


1:10,000

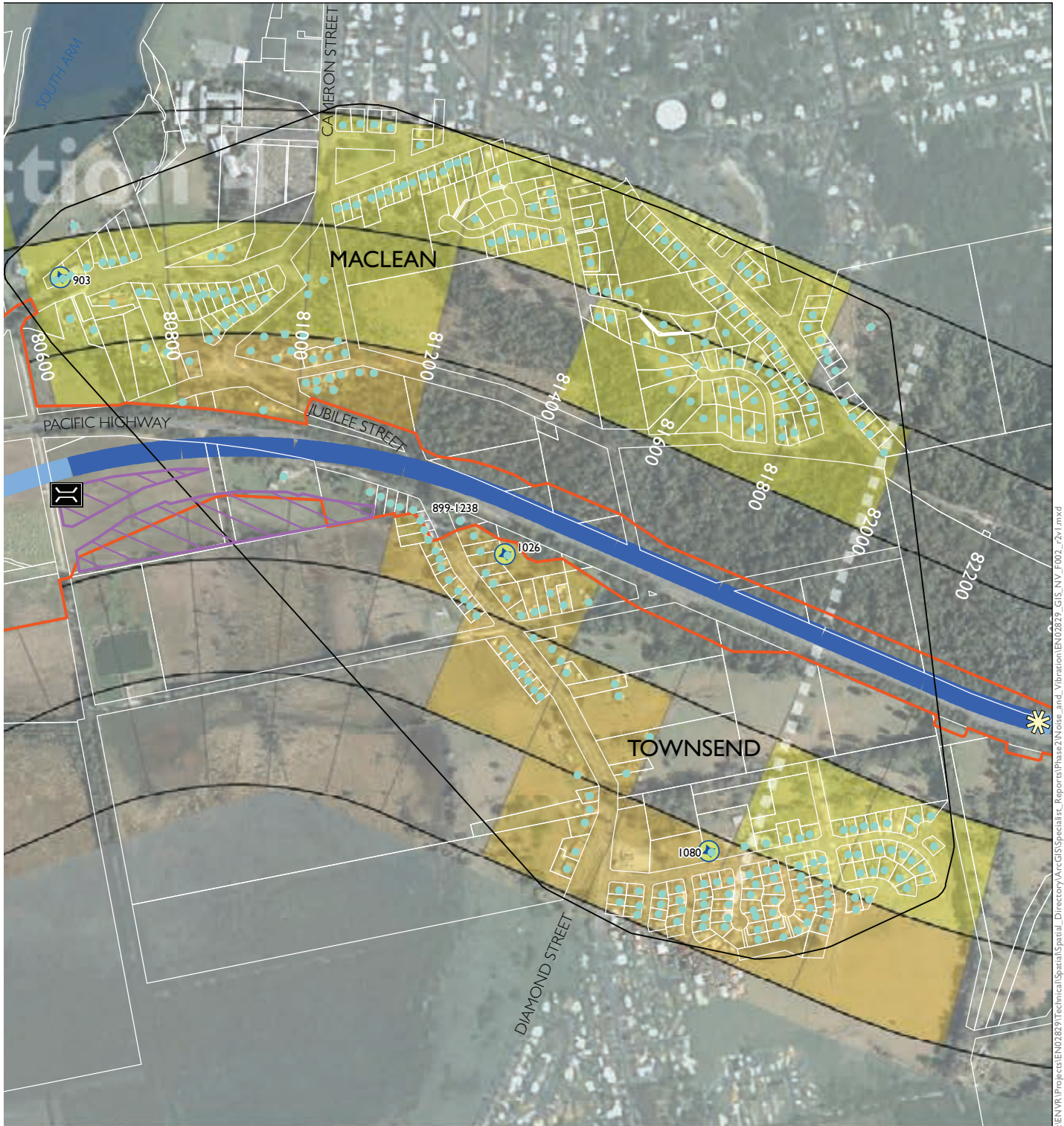
SHEET 25 of 52



Appendix C.26 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

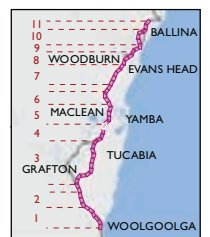
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

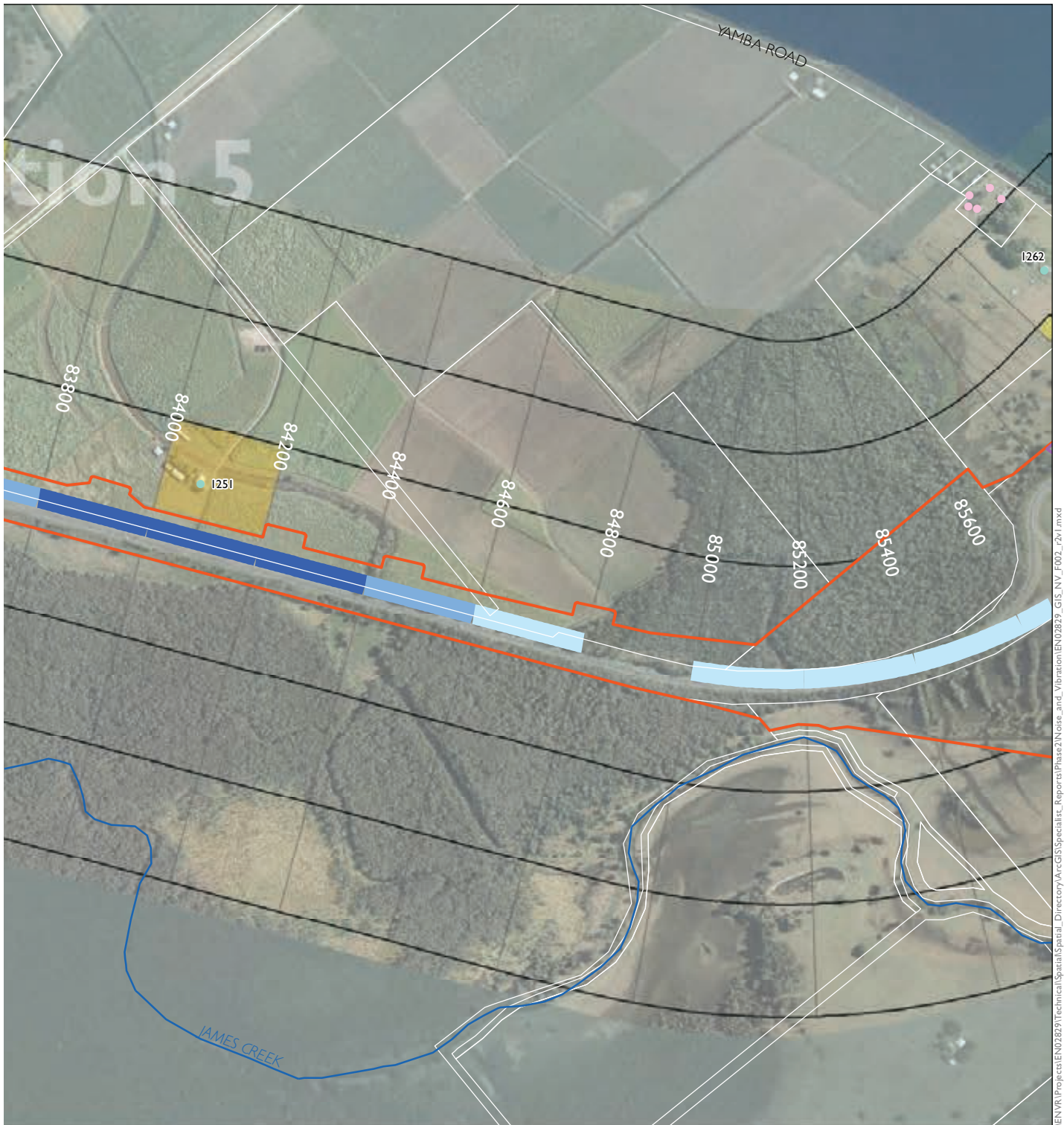
SHEET 26 of 52



Appendix C.27 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

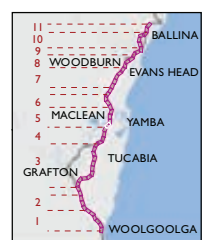
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

SHEET 27 of 52



Appendix C.28 Out of hours construction impacts - paving and asphaltting



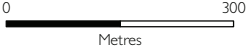


\\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

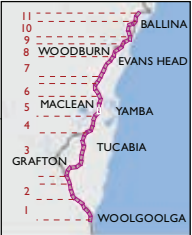
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	



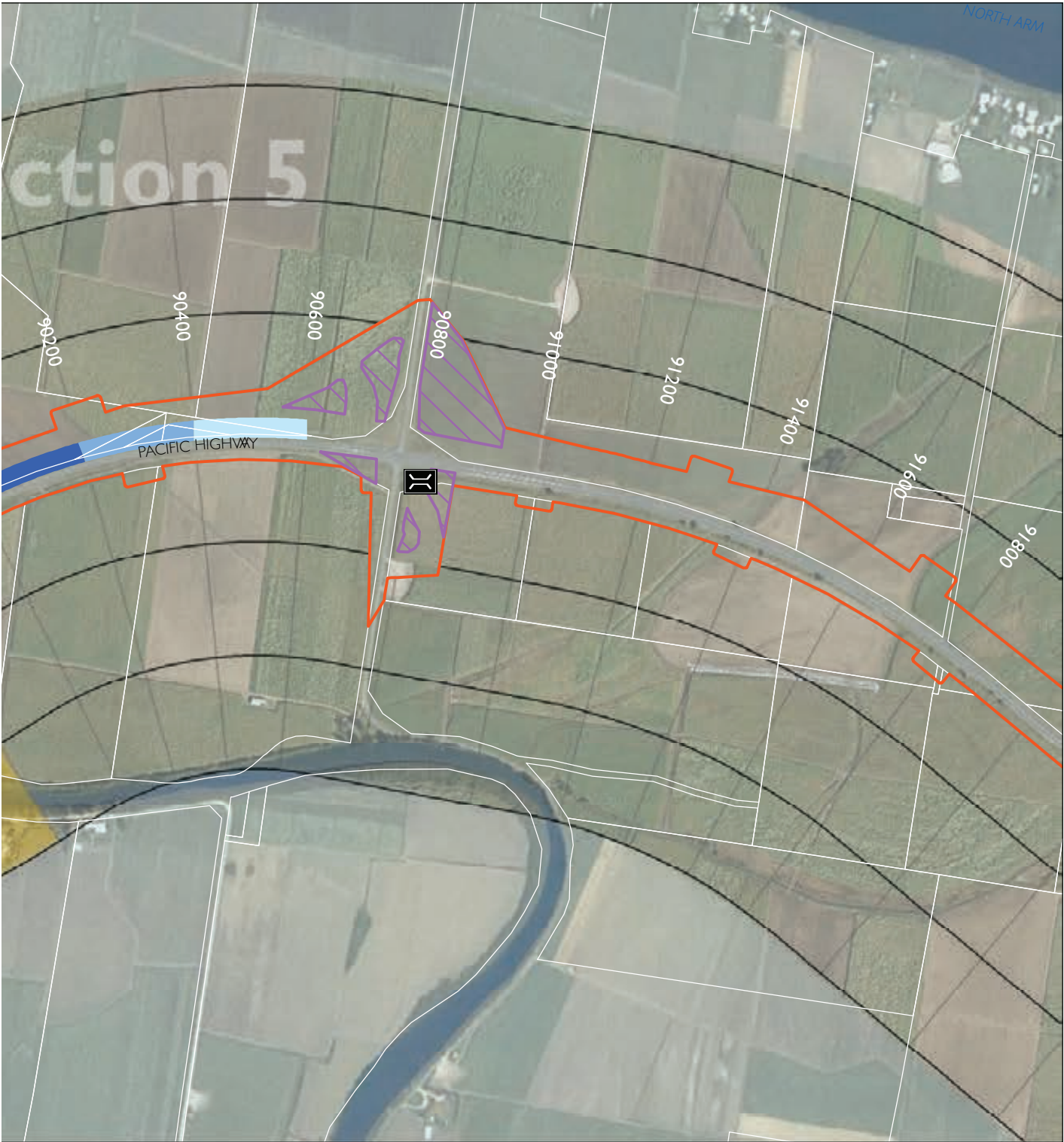
1:10,000

SHEET 28 of 52



Appendix C.29 Out of hours construction impacts - paving and asphaltting



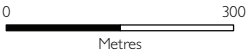


I:\ENVR\Projects\EN028291\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN028291_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

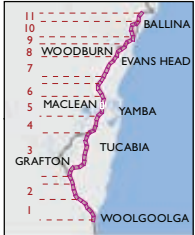
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	



1:10,000

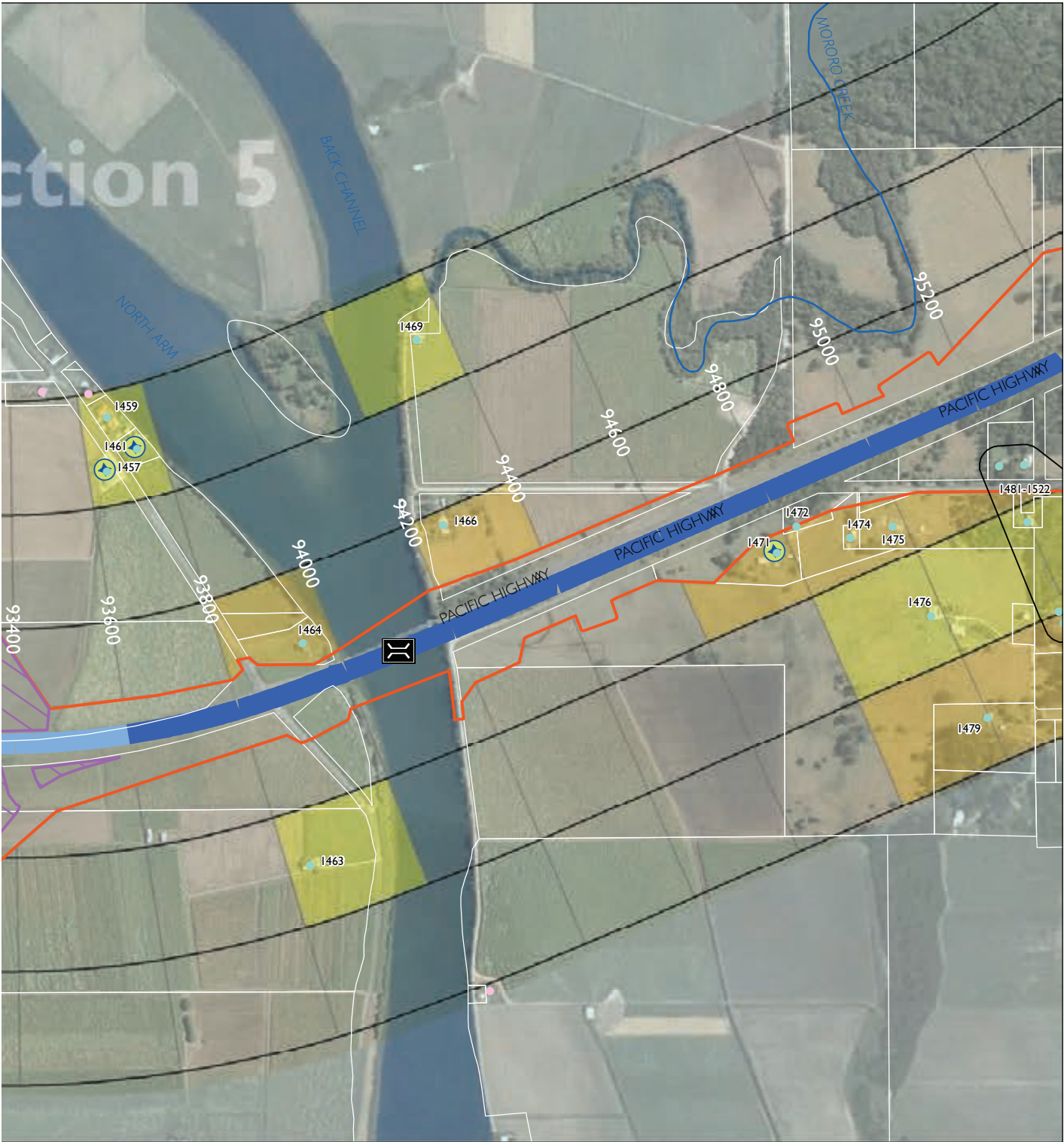
SHEET 29 of 52



Appendix C.30 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVN\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

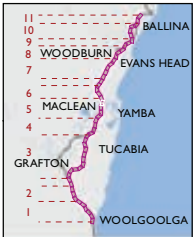
NCA Zones		
Zone F		
Zone E		
Zone D		
Zone C	200m	
Zone B	200m	
Zone A		

0 300
Metres

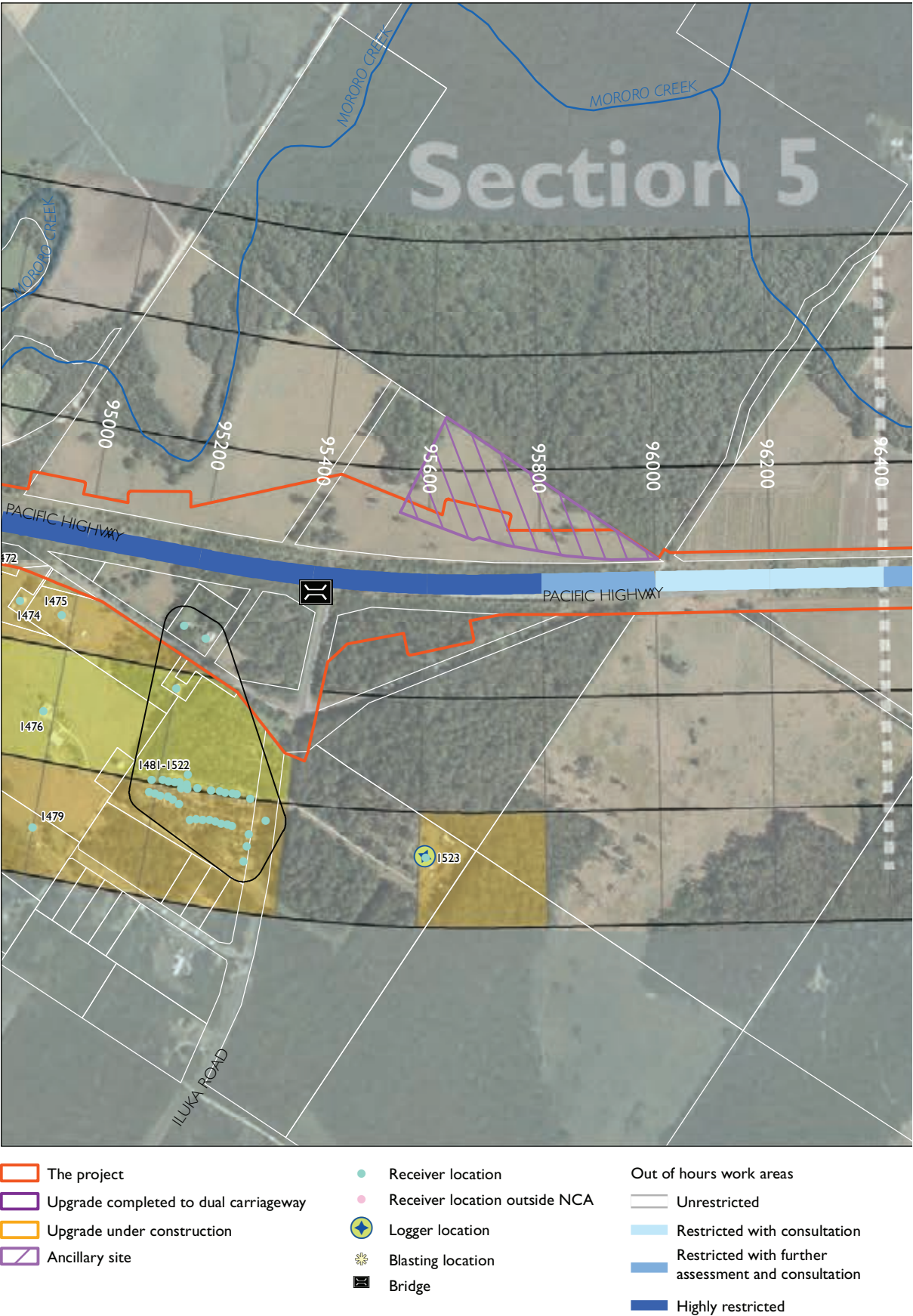


1:10,000

SHEET 30 of 52



Appendix C.31 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

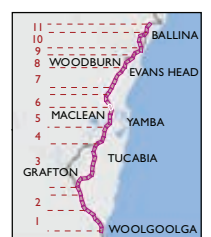
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

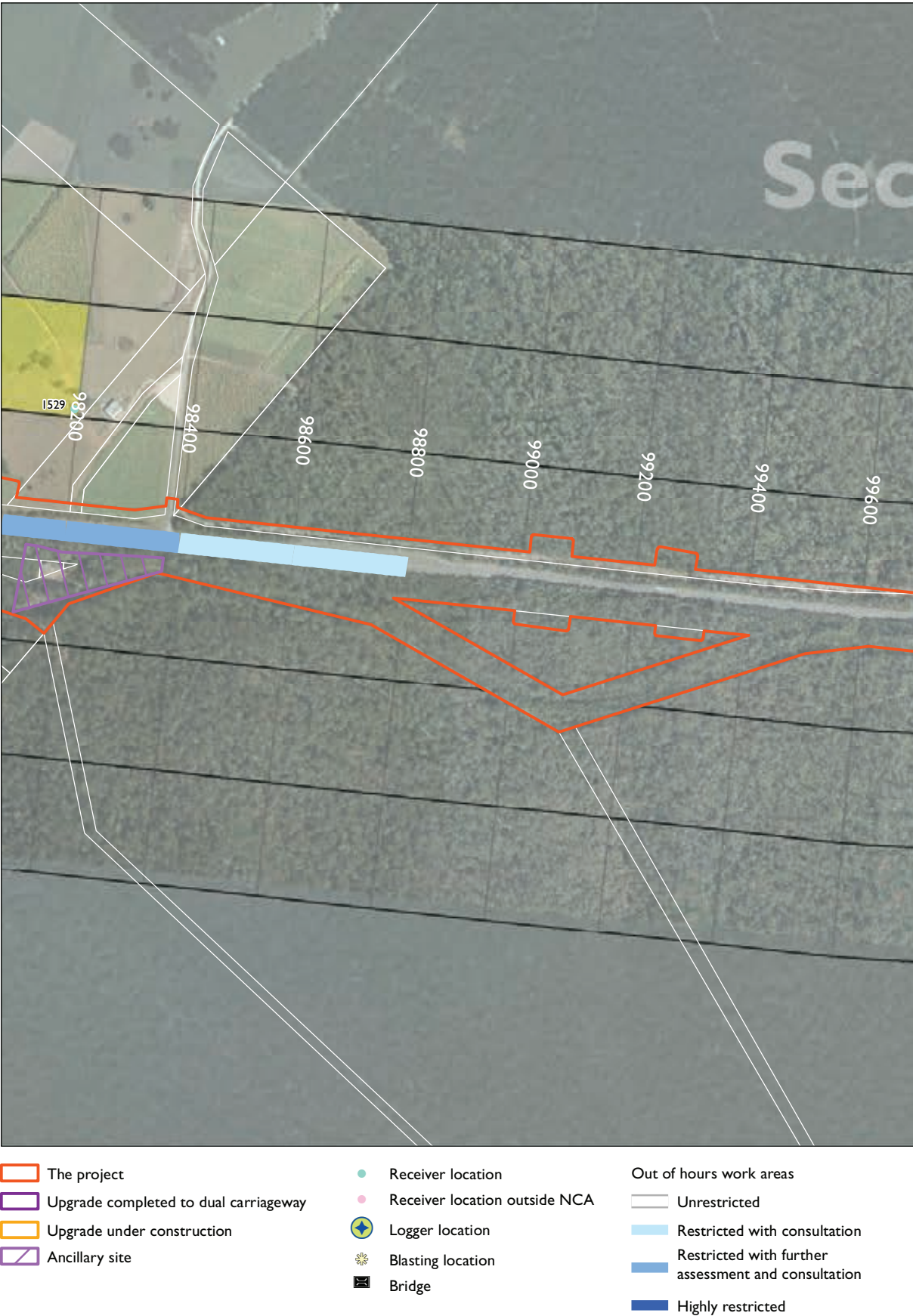


1:10,000

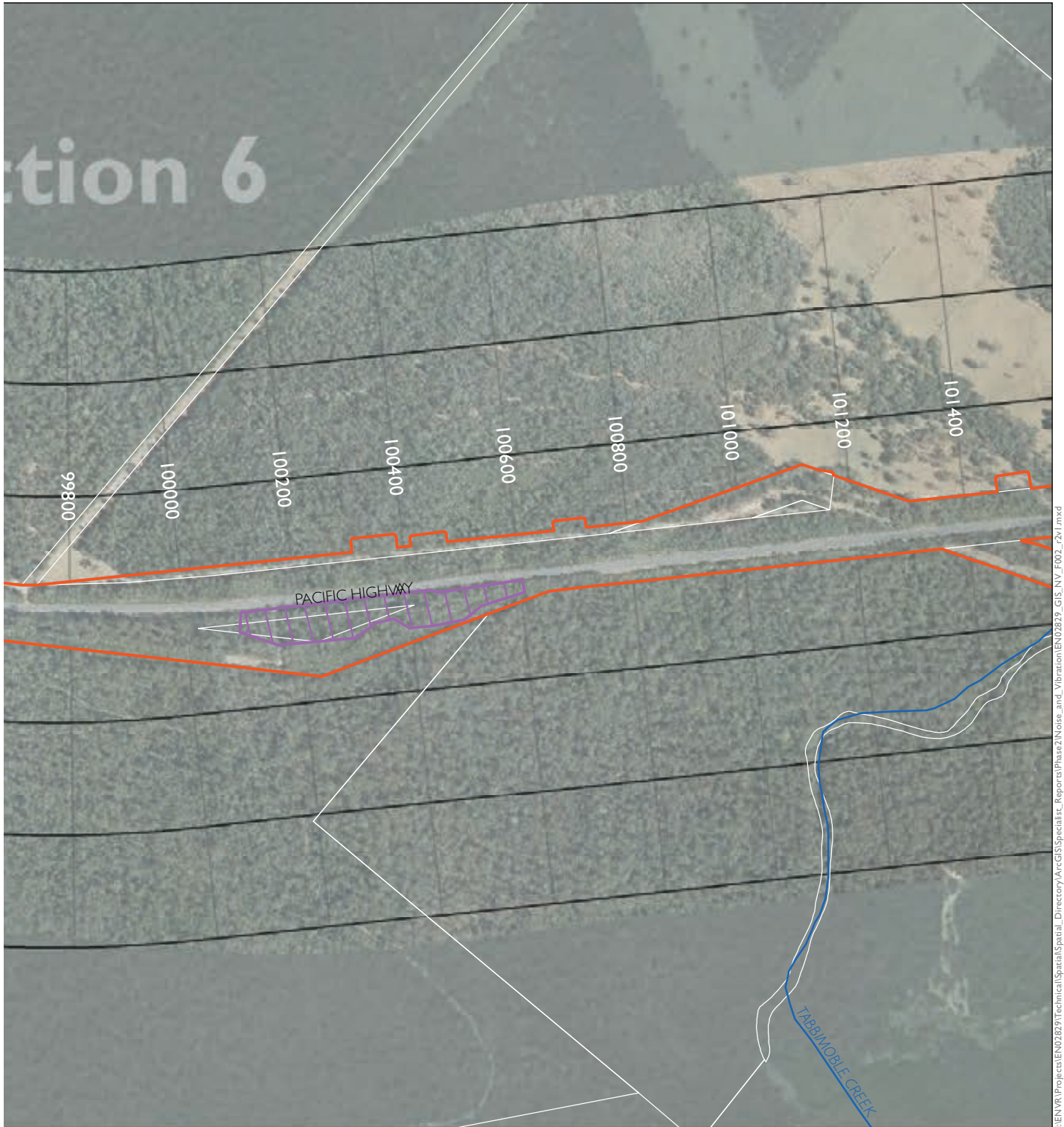
SHEET 31 of 52



Appendix C.32 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

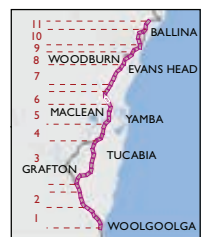
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

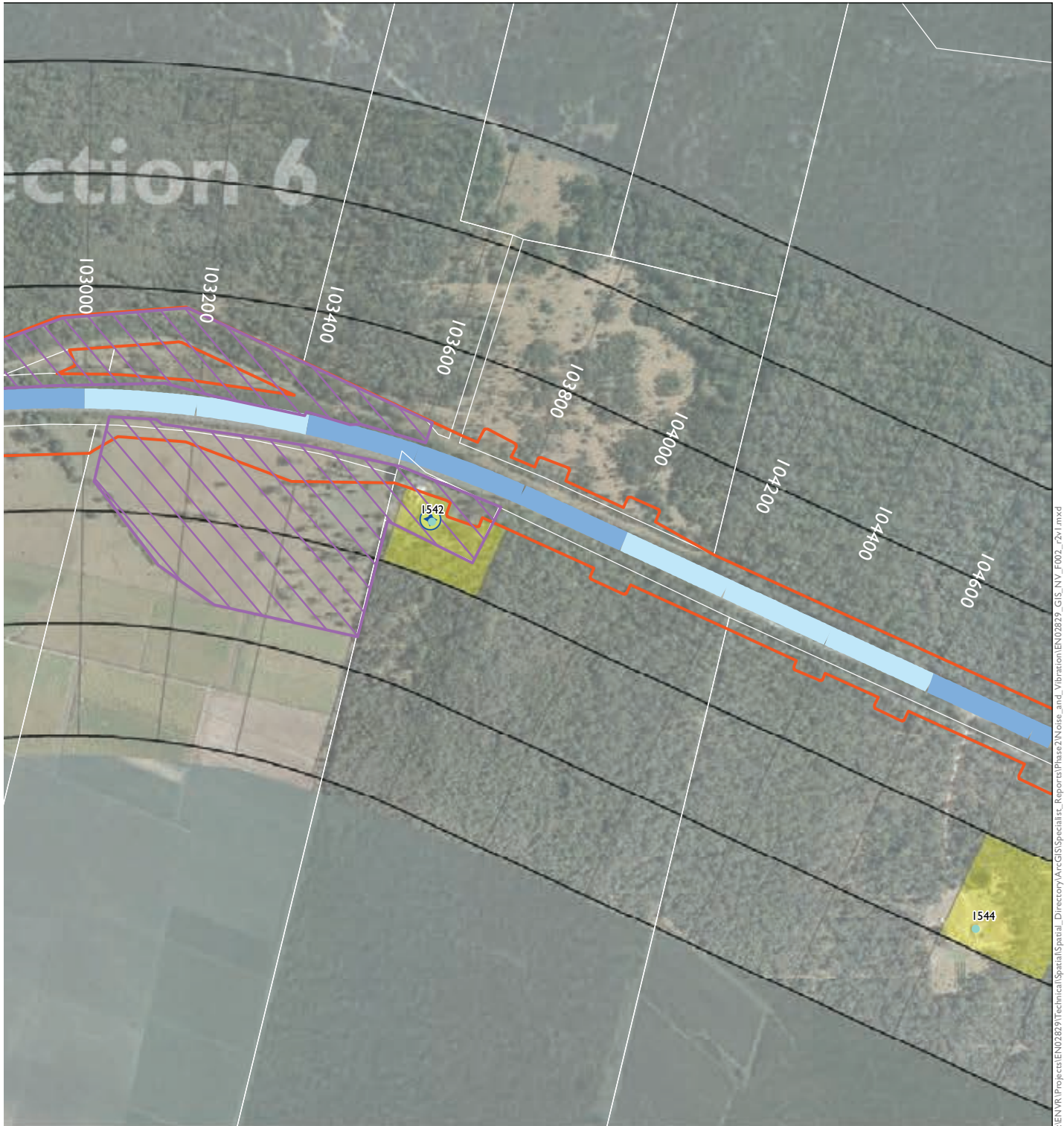
SHEET 32 of 52



Appendix C.33 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r001.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

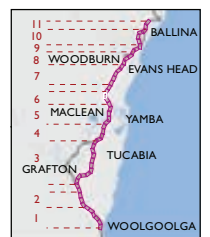
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

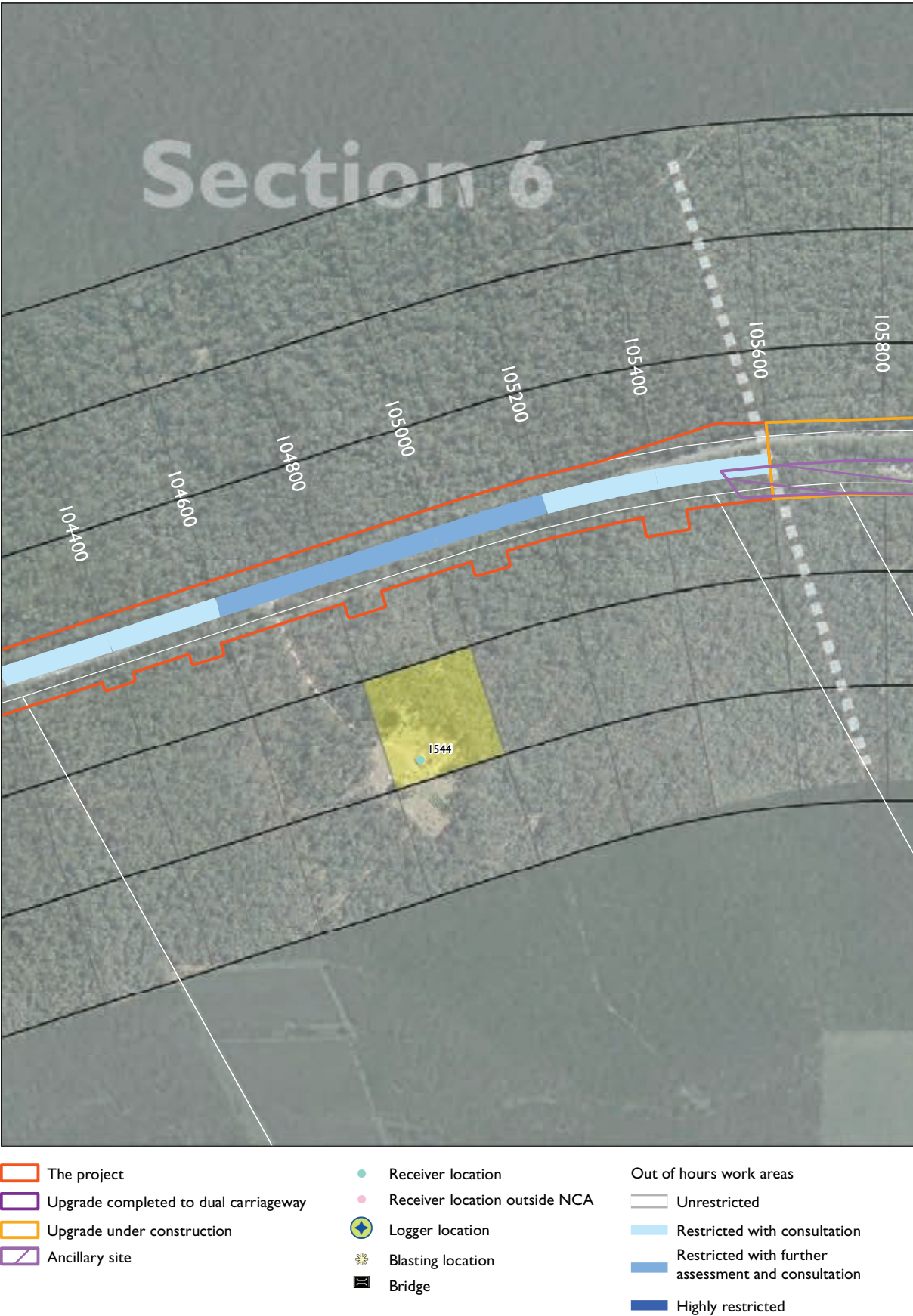


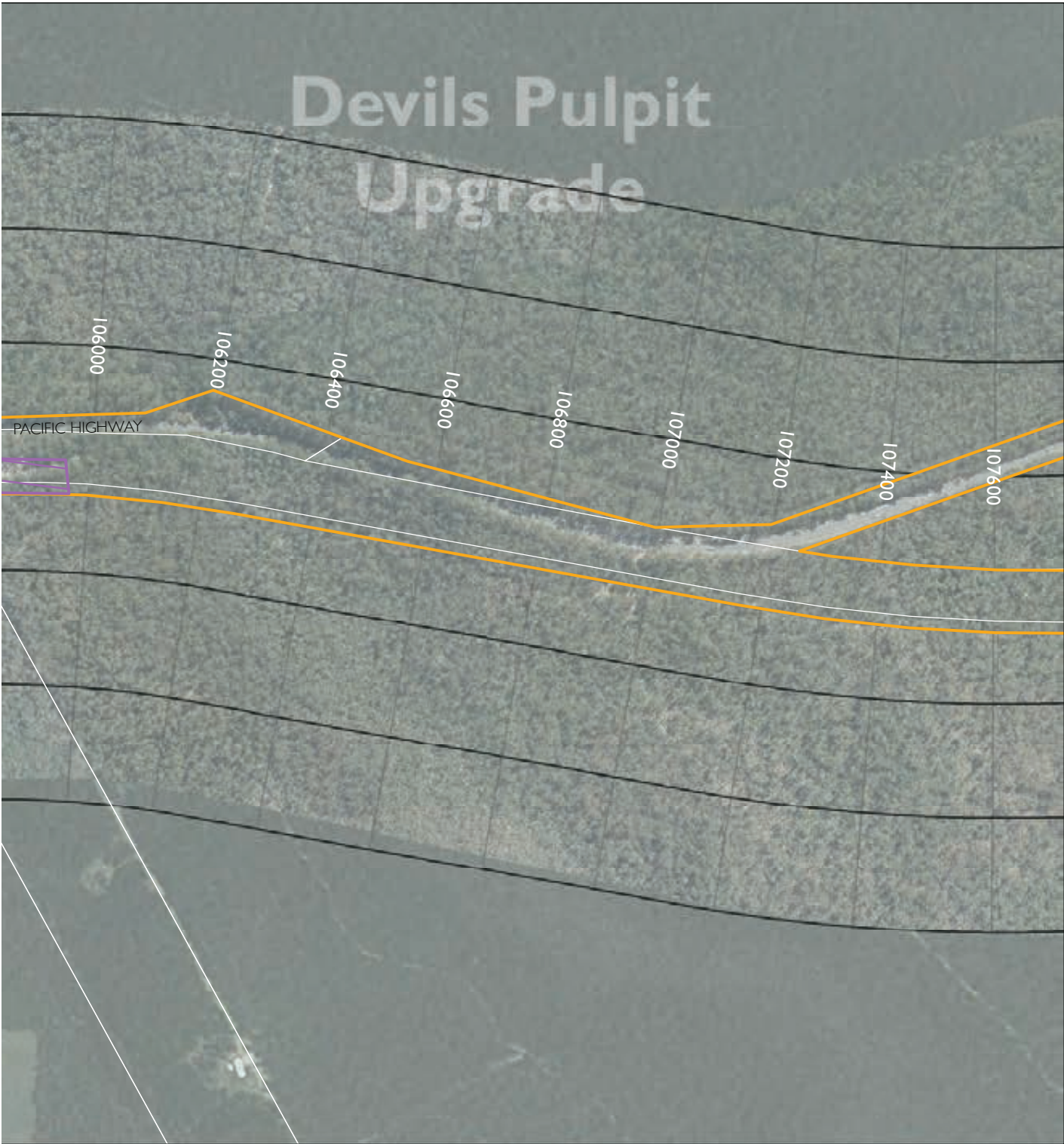
1:10,000

SHEET 33 of 52



Appendix C.34 Out of hours construction impacts - paving and asphaltting



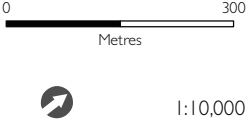


I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

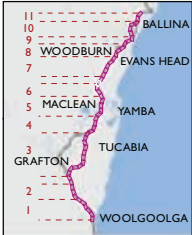
Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

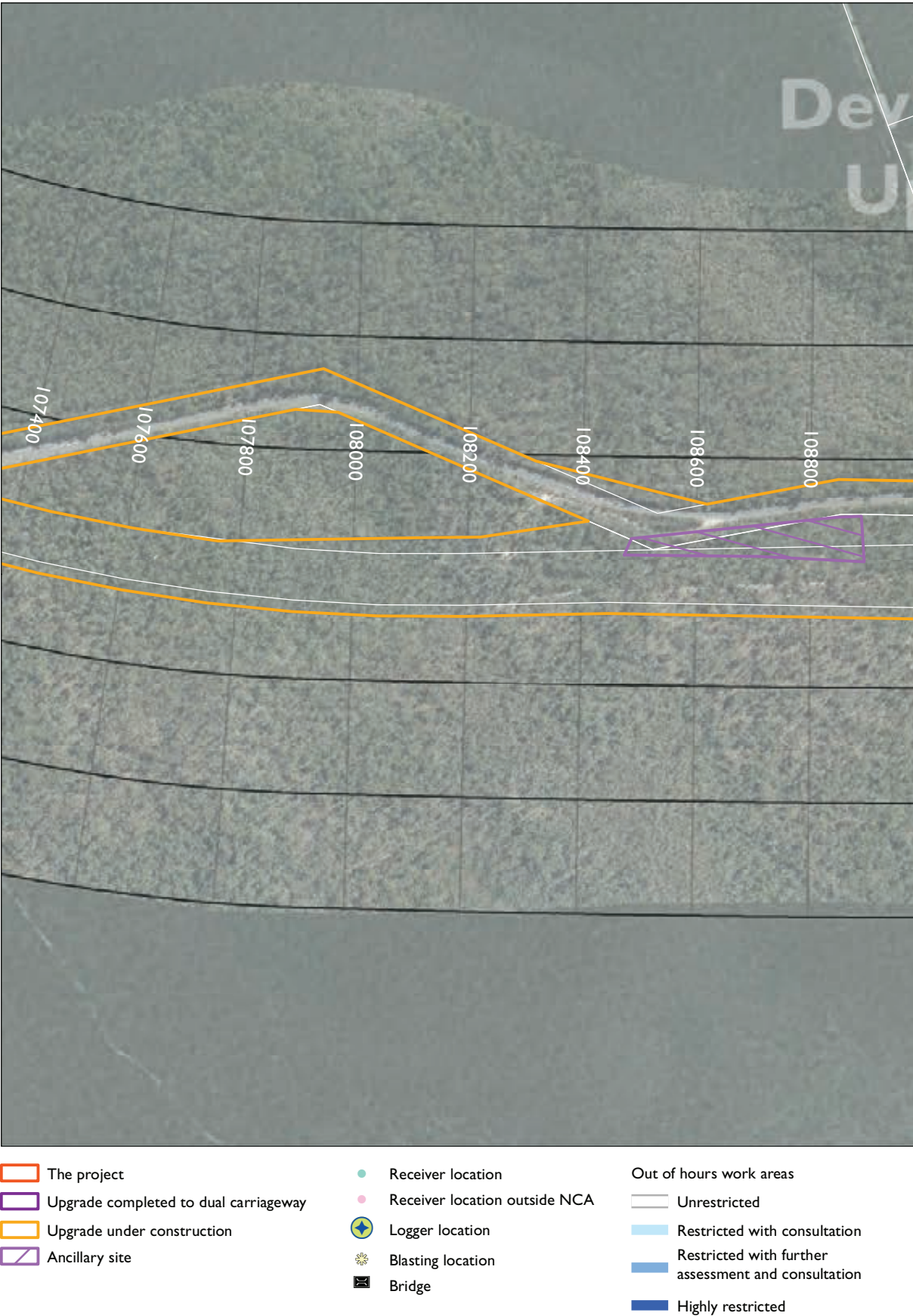
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	



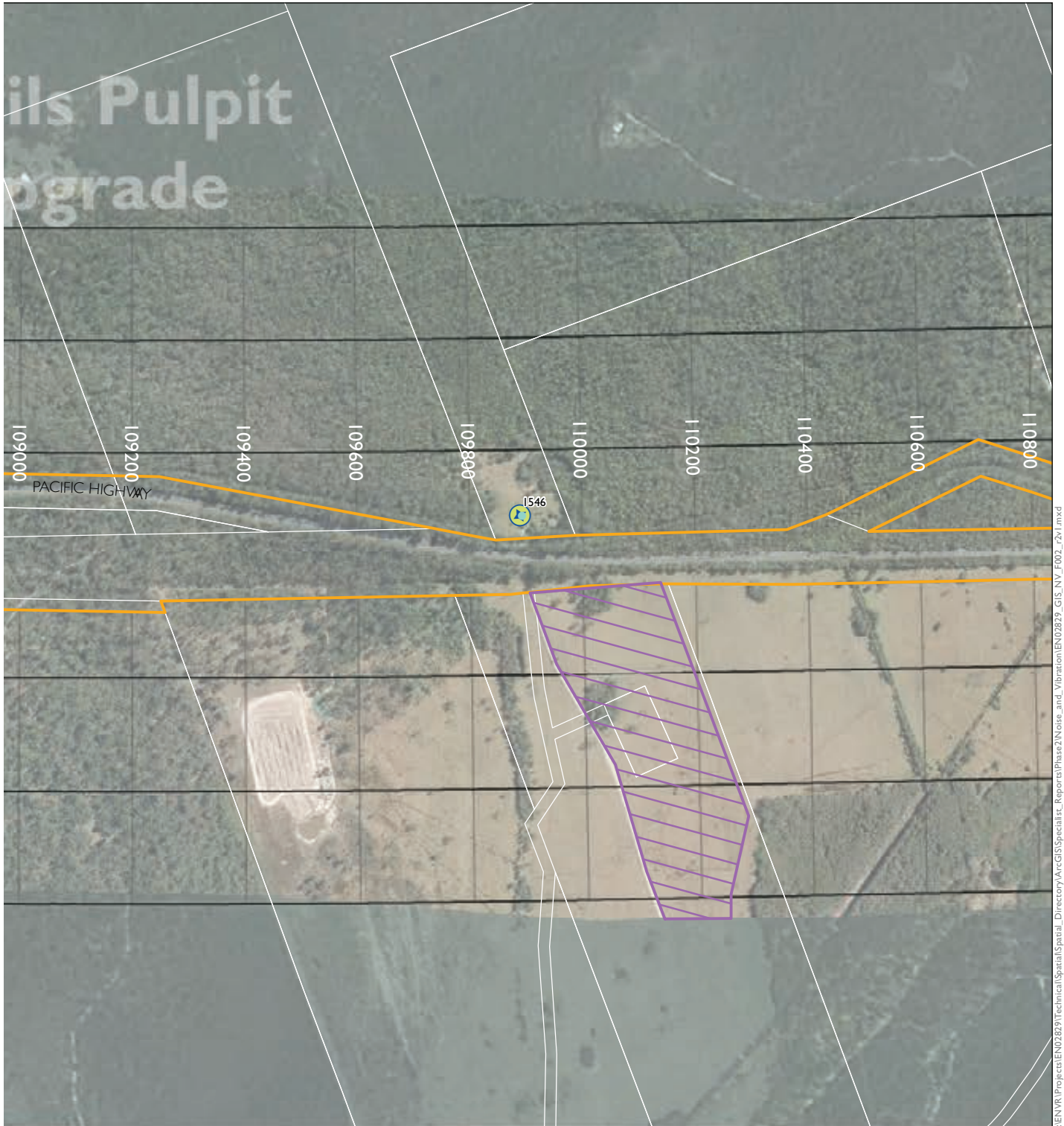
SHEET 34 of 52



Appendix C.35 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r2v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

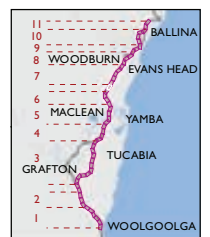
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres

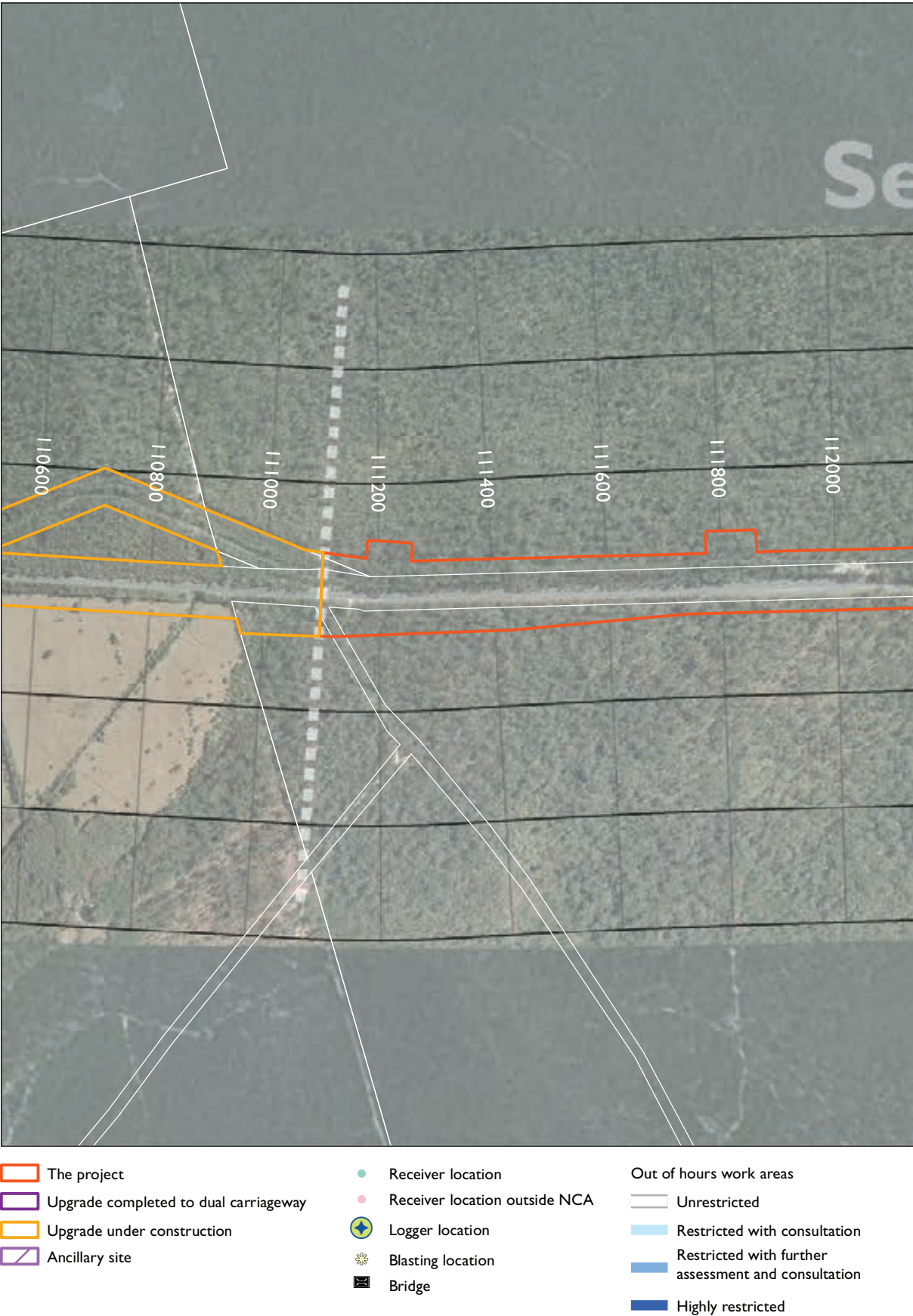


1:10,000

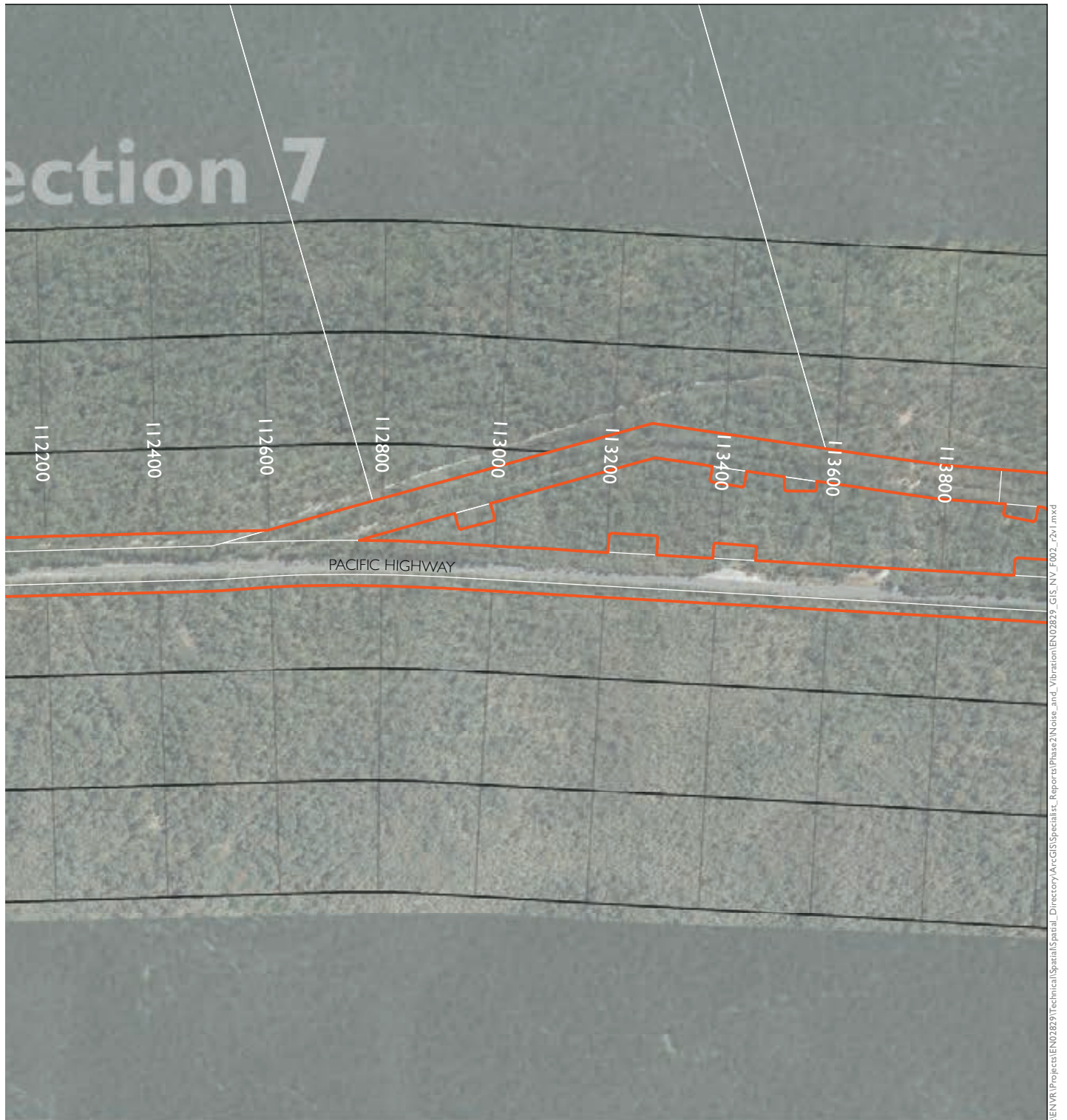
SHEET 35 of 52



Appendix C.36 Out of hours construction impacts - paving and asphalting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

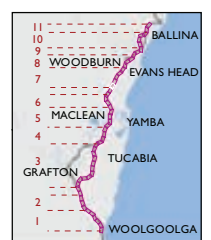
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



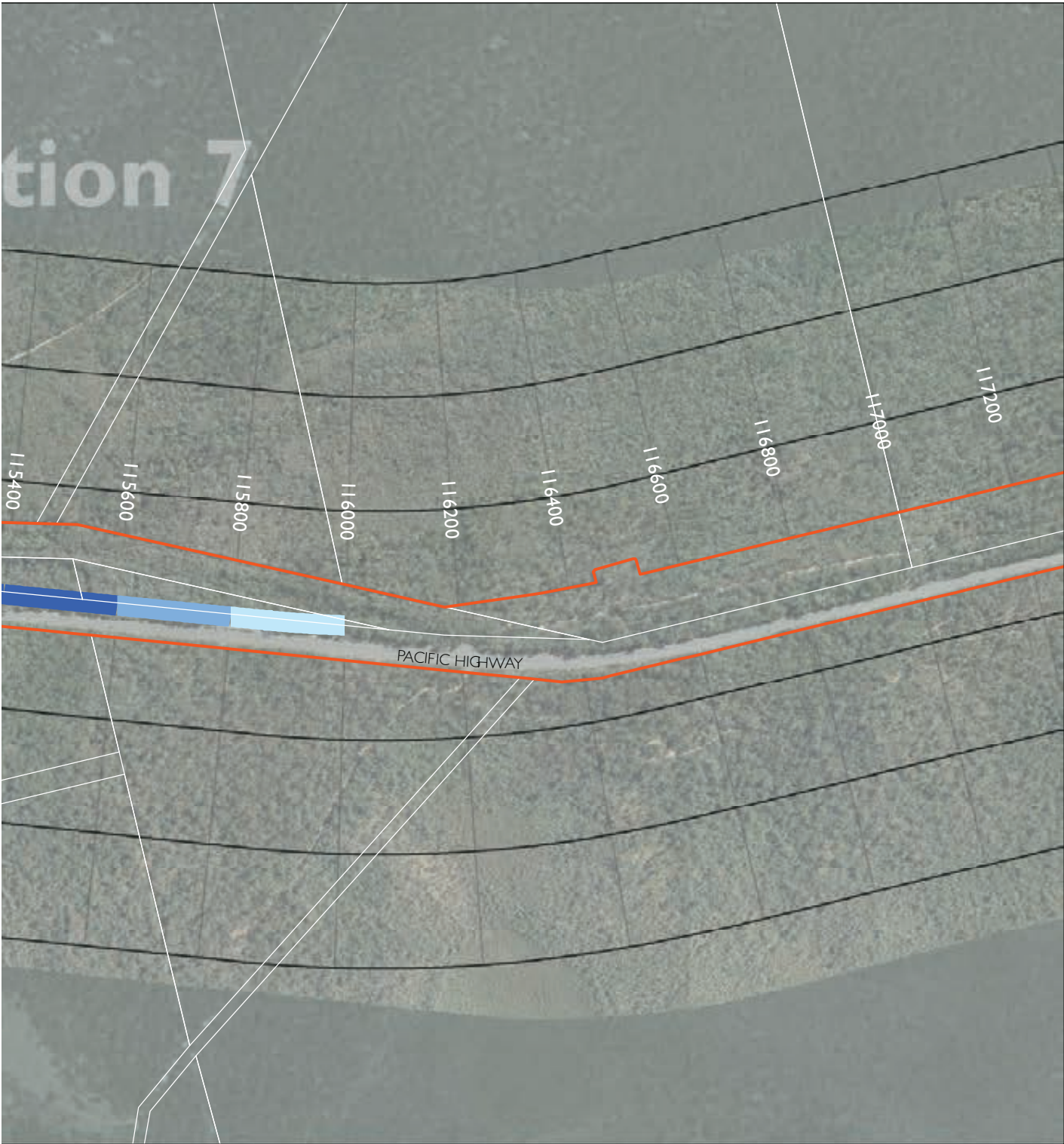
1:10,000

SHEET 36 of 52



Appendix C.37 Out of hours construction impacts - paving and asphalting



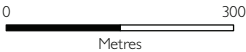


I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

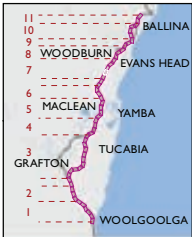
- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones		
Zone F		
Zone E		
Zone D		
Zone C	200m	
Zone B	200m	
Zone A		

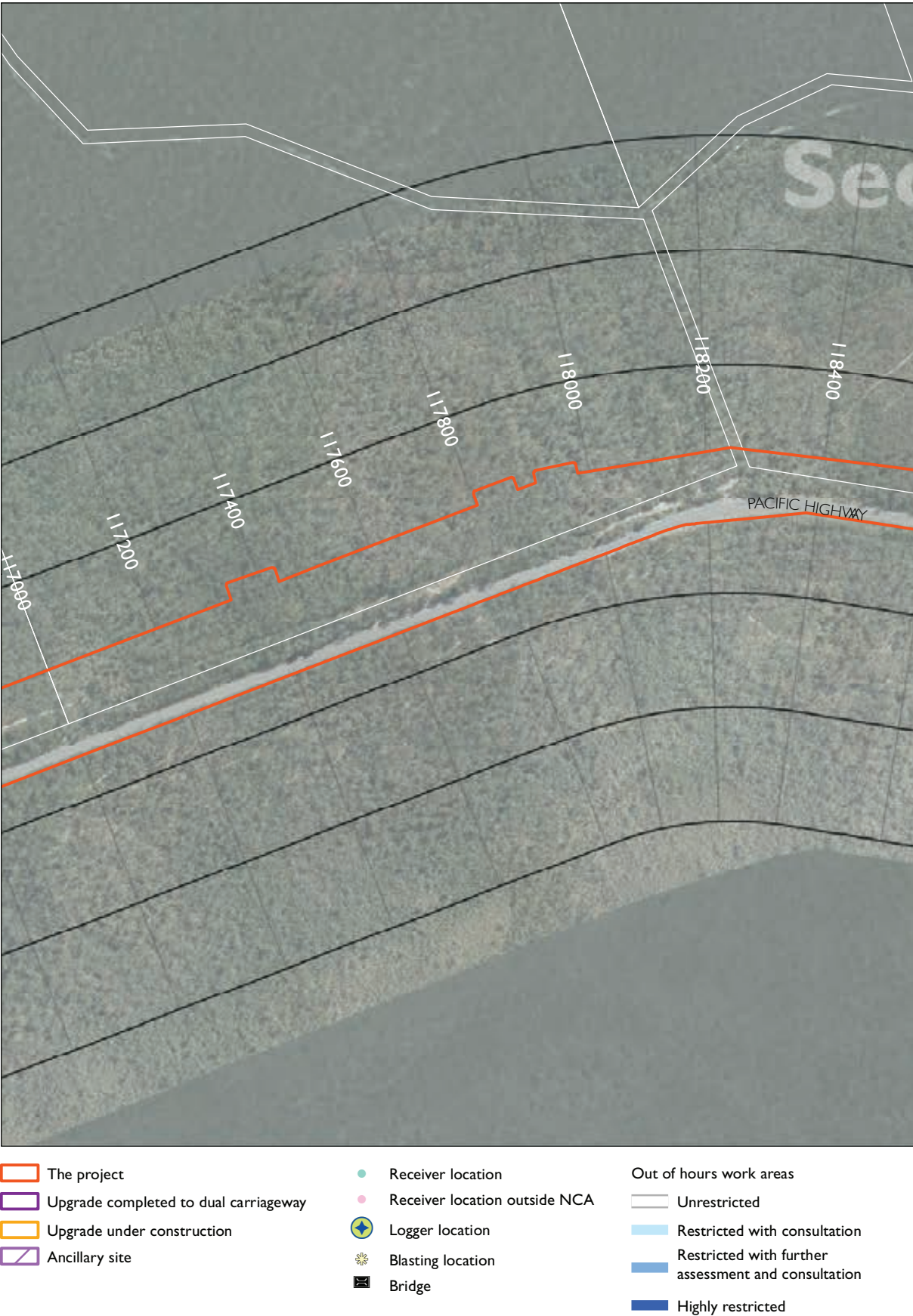


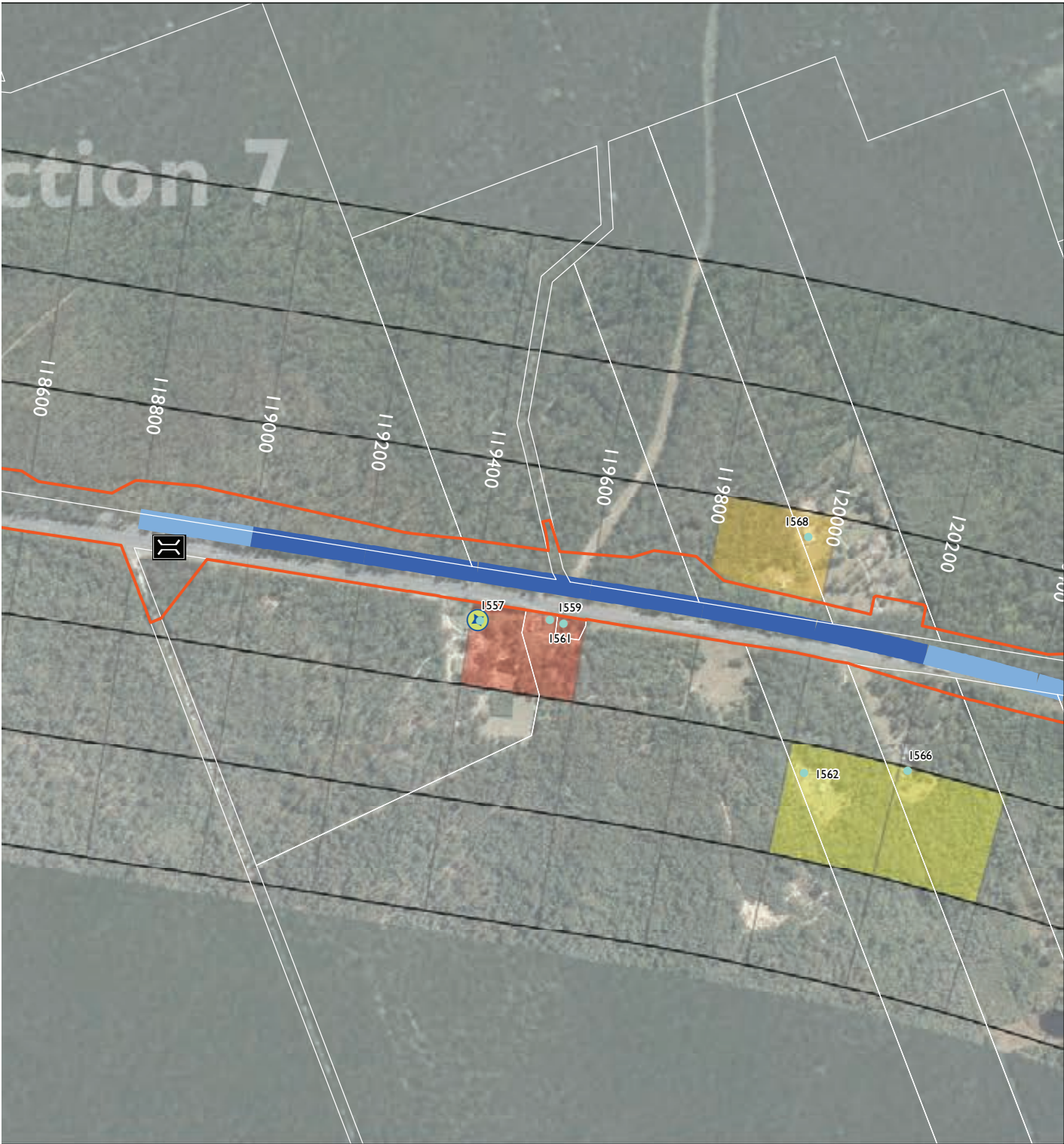
1:10,000

SHEET 37 of 52



Appendix C.38 Out of hours construction impacts - paving and asphaltting





\\ENVRI\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

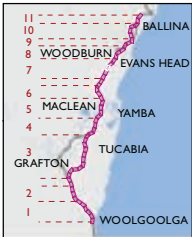
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

SHEET 38 of 52



Appendix C.39 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

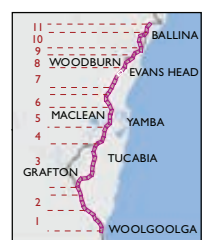
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

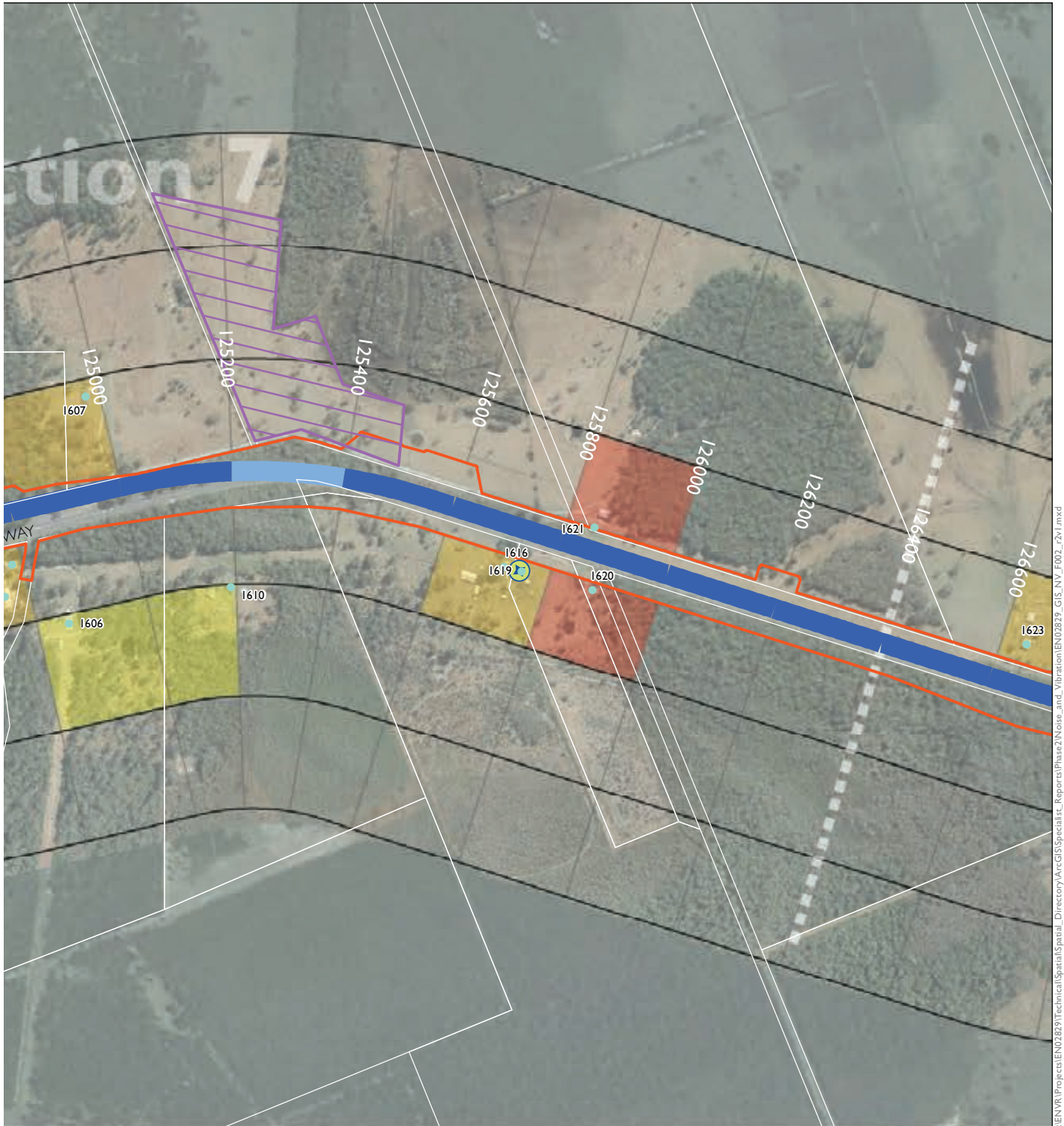
SHEET 39 of 52



Appendix C.40 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVR\Projects\EN02829\Technical\Spatial_Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

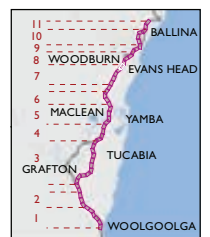
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

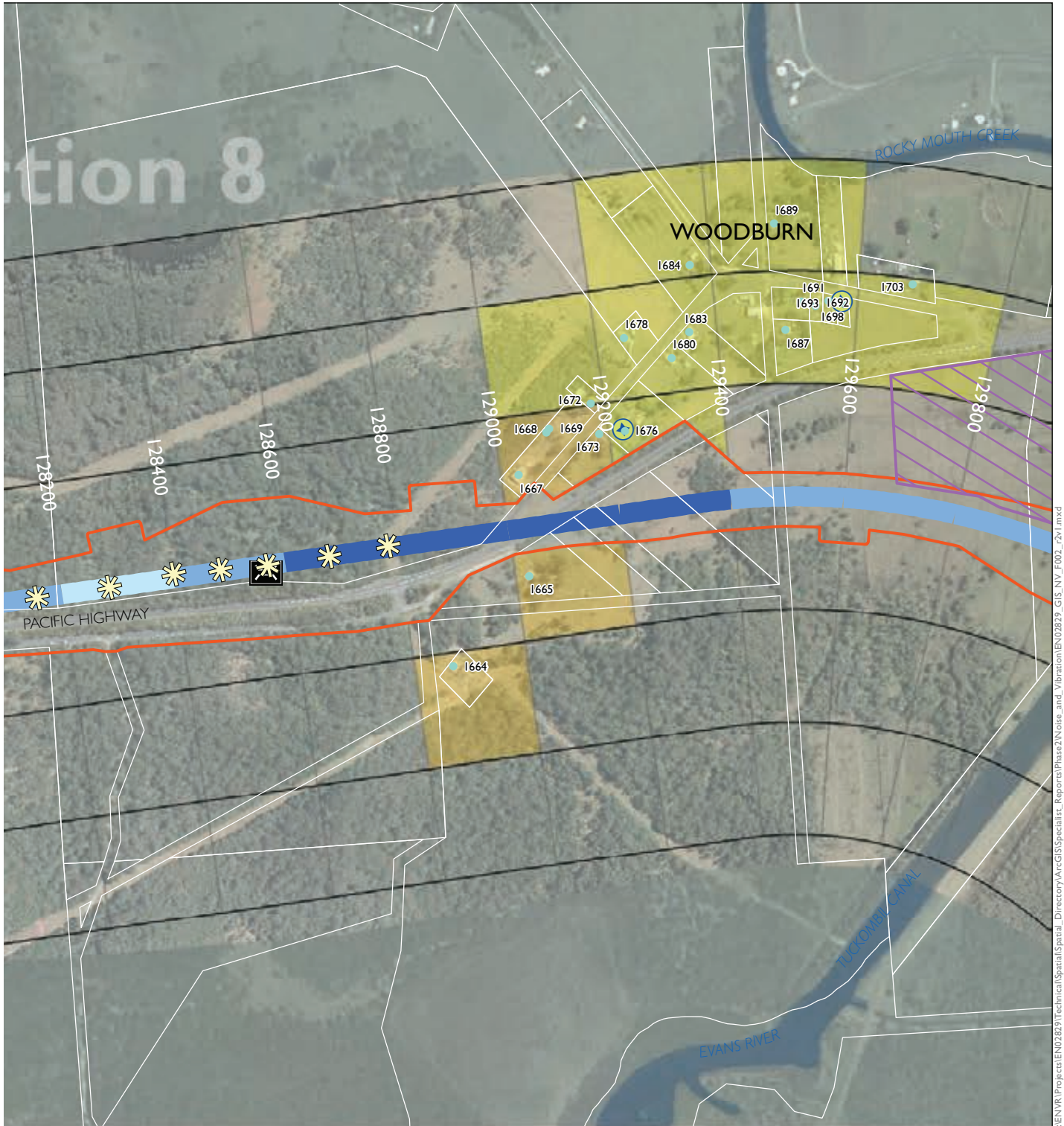
SHEET 40 of 52



Appendix C.41 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

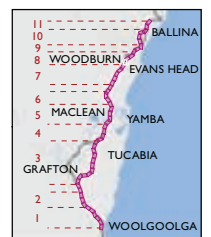
NCA Zones			
Zone F			
Zone E			
Zone D			
Zone C			
Zone B			
Zone A			

0 300
Metres



1:10,000

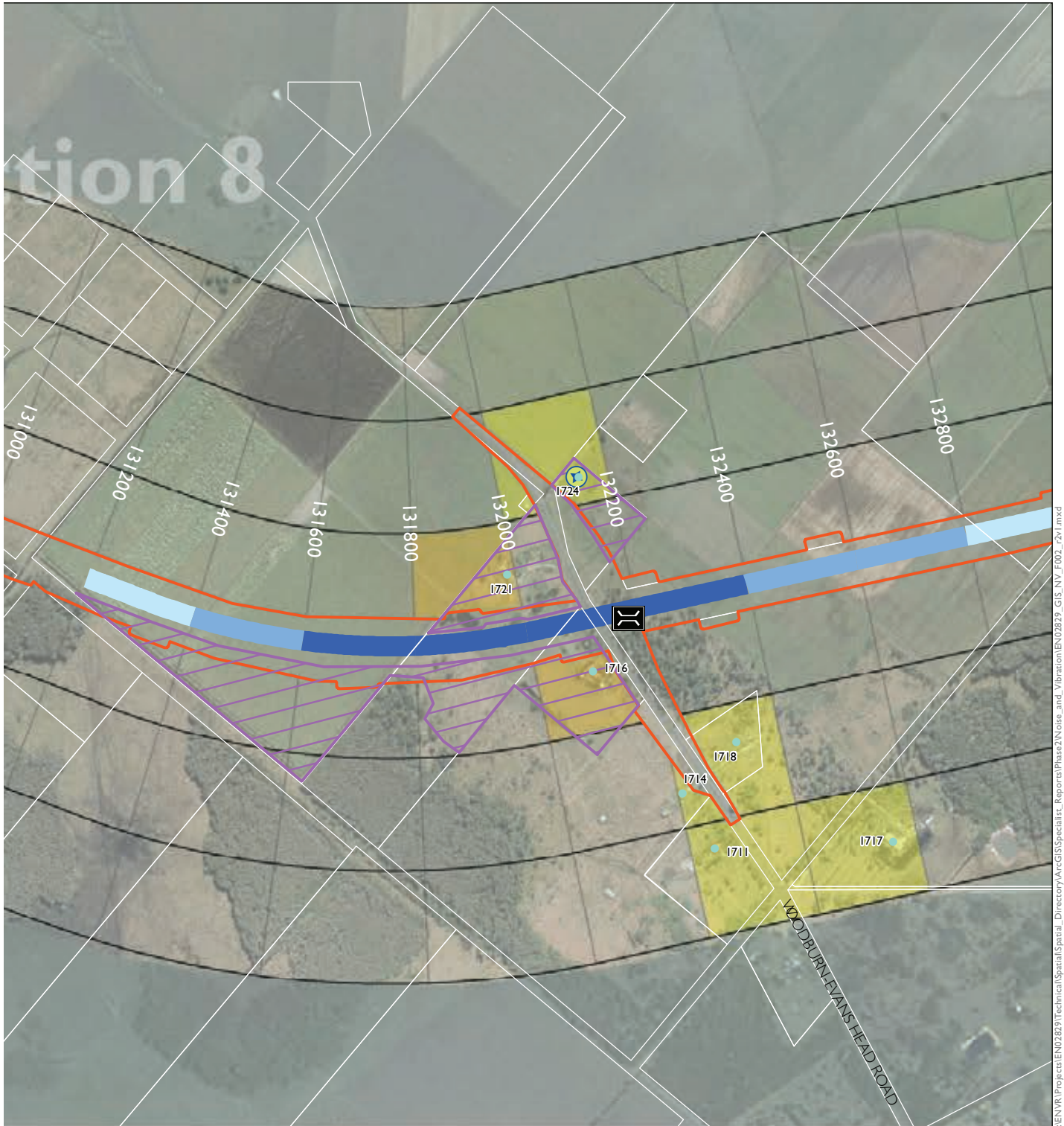
SHEET 41 of 52



Appendix C.42 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



\\ENVR\Projects\EN028291\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN028291_GIS_NV_F002_r01.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

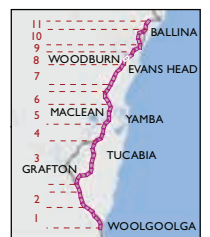
NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

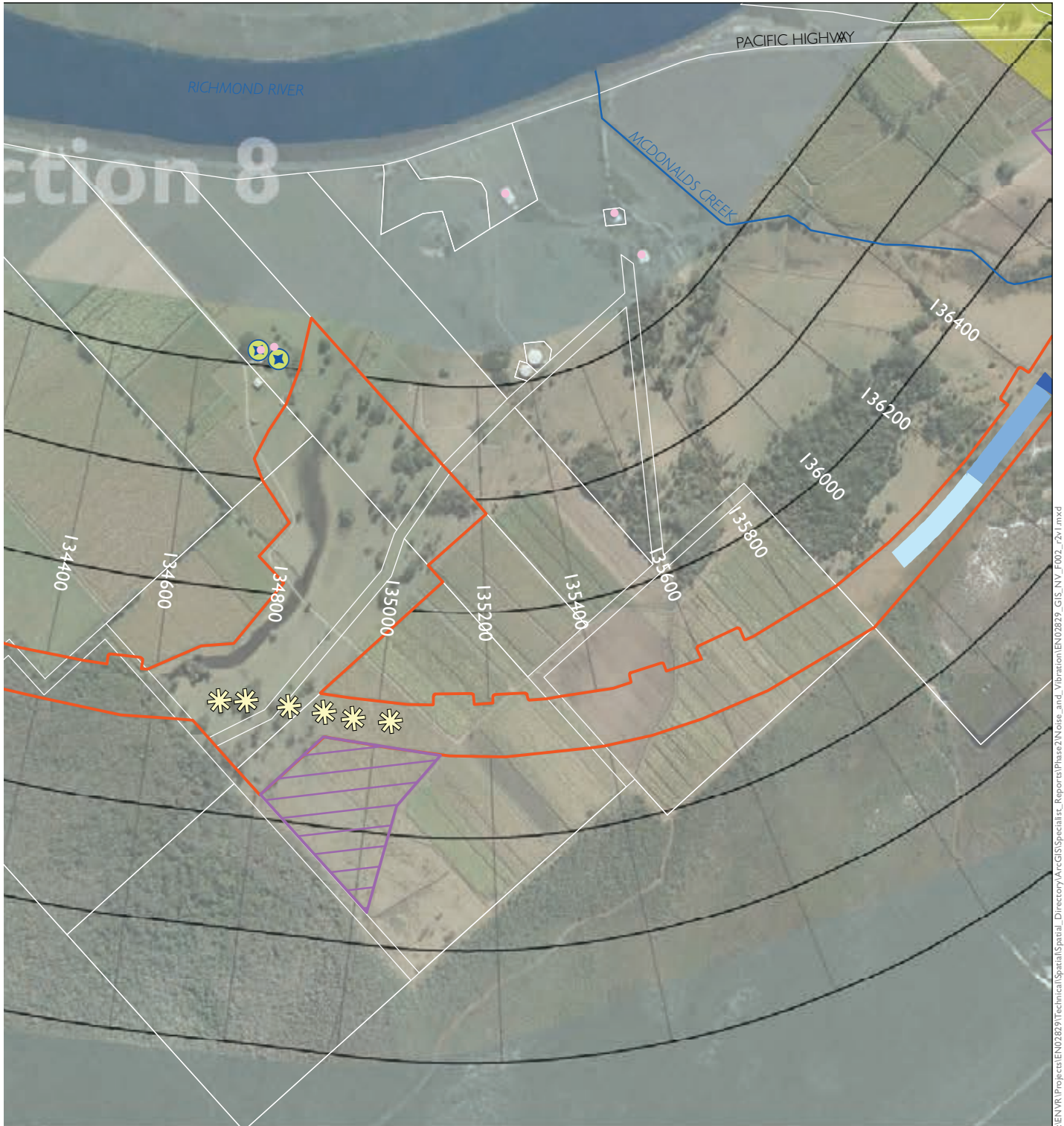
SHEET 42 of 52



Appendix C.43 Out of hours construction impacts - paving and asphaltting



Upgrading the Pacific Highway - Woolgoolga to Ballina Upgrade



I:\ENVR\Projects\EN02829\Technical\Spatial\Directory\ArcGIS\Specialist_Reports\Phase2\Noise_and_Vibration\EN02829_GIS_NV_F002_r0v1.mxd

Out of hours impact areas

- No impact
- Low impact
- Moderate impact
- High impact

NCA Zones	
Zone F	
Zone E	
Zone D	
Zone C	200m
Zone B	200m
Zone A	

0 300
Metres



1:10,000

SHEET 43 of 52

