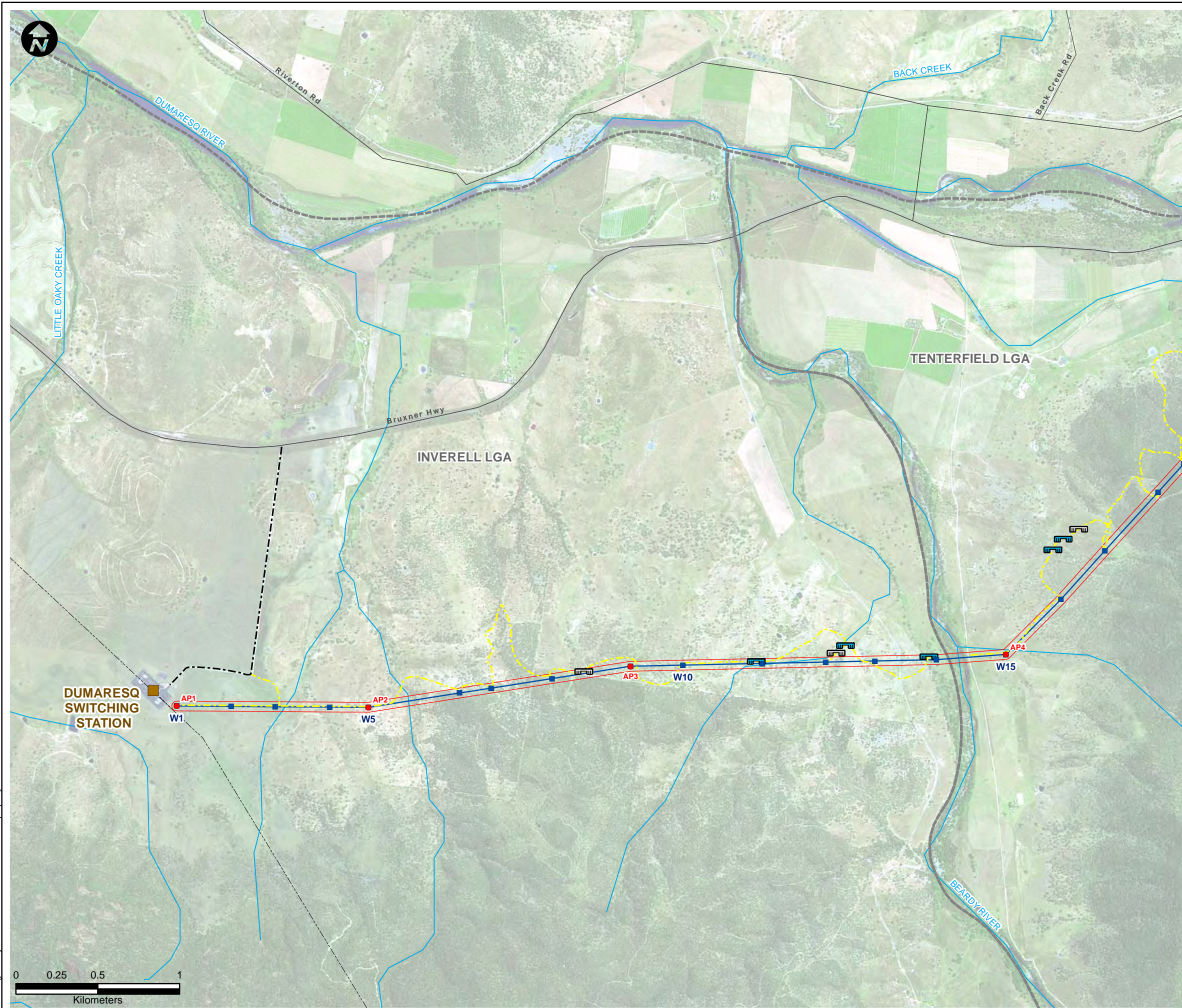




Section 2

Figures 3-2a – 3-2ae

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LEGEND:

- Existing 96L 132kV Structure Locations[^]
- Existing Transmission Lines[^]
- Proposed 330kV Angle Positions (Indicative)[^]
- Proposed 330kV Structure Locations (Indicative)[^]
- Proposed 330kV Centreline[^]
- Proposed 330kV Easement[^]
- Substation/Switching Station
- Roads
- Waterways⁺

Access Tracks:

- Category 1^{*}
- Category 2^{**}
- Category 3^{***}
- Creek Crossing (New)
- Creek Crossing (Upgrade Required)
- Local Government Area

^{*}**Category 1** : Minimal work required. This would include removal of surface obstacles and/or minor upgrades to existing tracks (i.e. resurfacing, widening etc). Some imported sand and gravel may be required.

^{**}**Category 2** : Earth works required. Construction of tracks through flat or undulating timbered/rocky areas where existing tracks do not exist. These can range from tracks required over flat plains country, or involve the formation of tracks after cut and fill, rock removal and/or levelling. Newly constructed Category 2 access tracks would typically be topped with approved gravel. Access tracks would be appropriately compacted and graded and included drainage in the direction of the cross fall to ensure tracks could be maintained and erosion impacts from run off minimised.

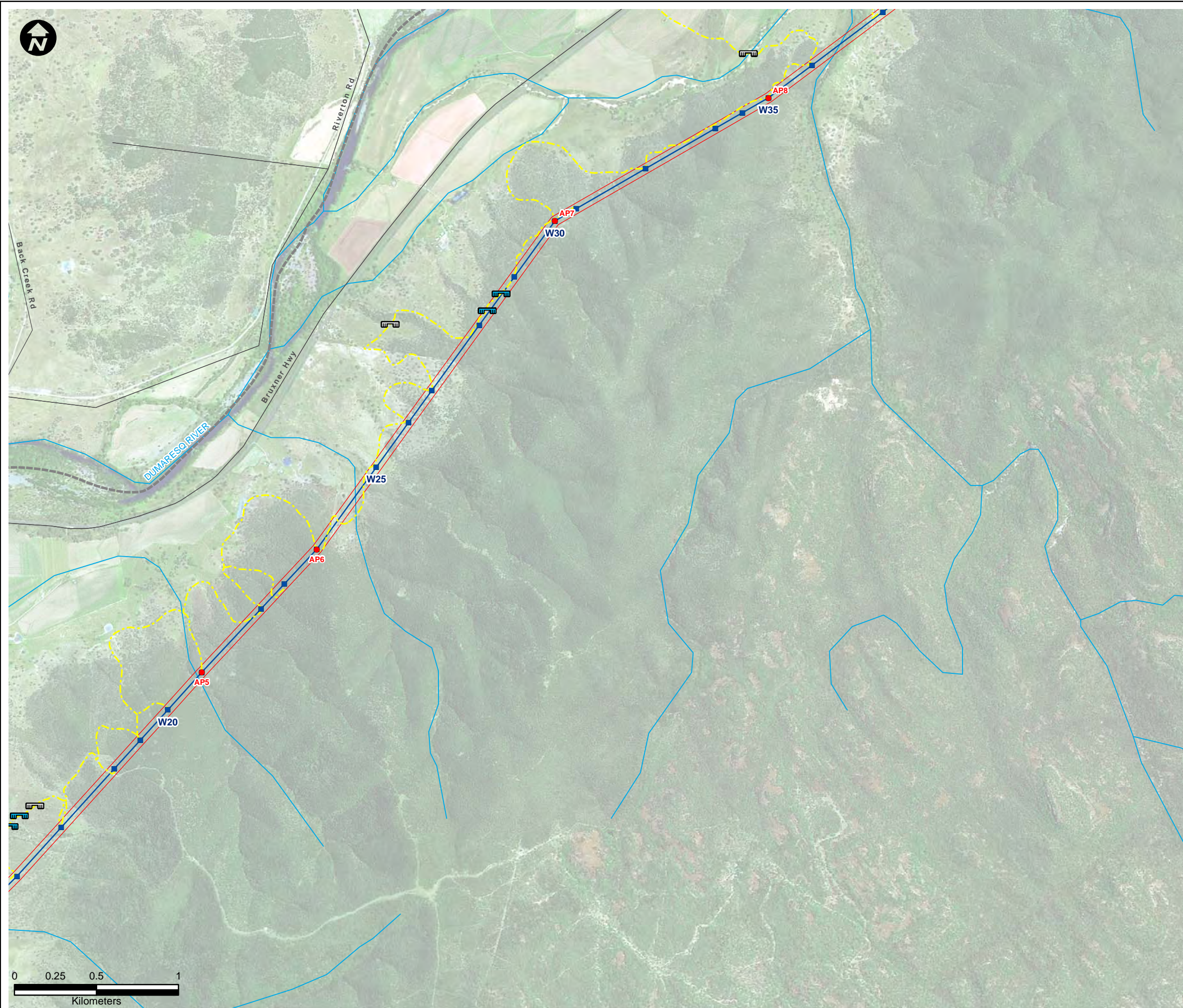
^{***}**Category 3** : Earth works required in wet or swampy areas. Typically construction would require excavation of unstable material, drainage works and the import of rock material. This rock would be placed upon a geotextile material to provide a stable surface to facilitate the movement of required construction plant and equipment.

Symbols and lines used in this figure are indicative and are not intended to reflect actual size of represented features.
Symbols and lines have been enhanced to aid visibility.
Source: Aerial Imagery from TransGrid 2009. [^] TransGrid 2010
⁺ Fairfull and Witheridge, 2003
Commonwealth of Australia (Geoscience Australia) 2010

Drawn: AO/SB	Approved: WM/TH	Date: 24/05/2011
Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2a		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^

Access Tracks:

- Category 1*
- Category 2**
- Category 3***
- Creek Crossing (New)
- Creek Crossing (Upgrade Required)
- Local Government Area

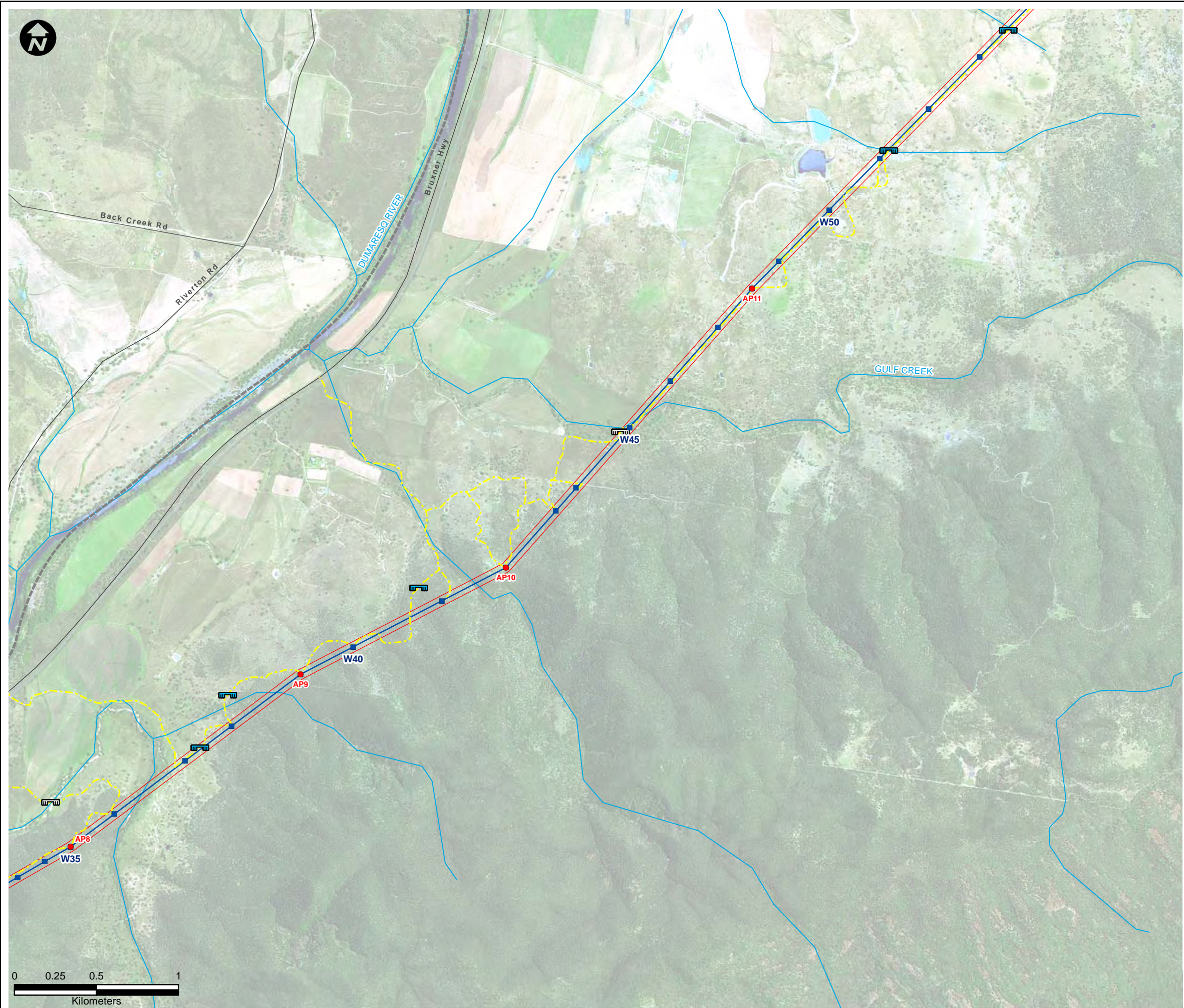
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Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2b		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

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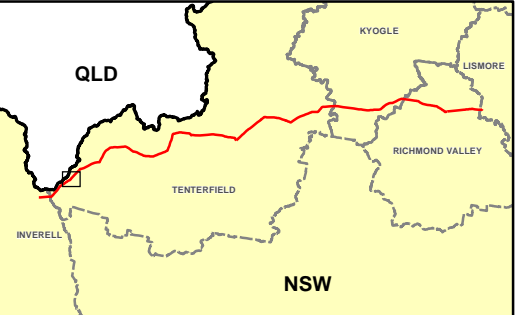
LEGEND:

- Existing 96L 132kV Structure Locations^
 - Existing Transmission Lines^
 - Proposed 330kV Angle Positions (Indicative)^
 - Proposed 330kV Structure Locations (Indicative)^
 - Proposed 330kV Centreline^
 - Proposed 330kV Easement^
 - Substation/Switching Station
 - Roads
 - Waterways^
- Access Tracks:**
- Category 1*
 - Category 2**
 - Category 3***
 - Creek Crossing (New)
 - Creek Crossing (Upgrade Required)
 - Local Government Area


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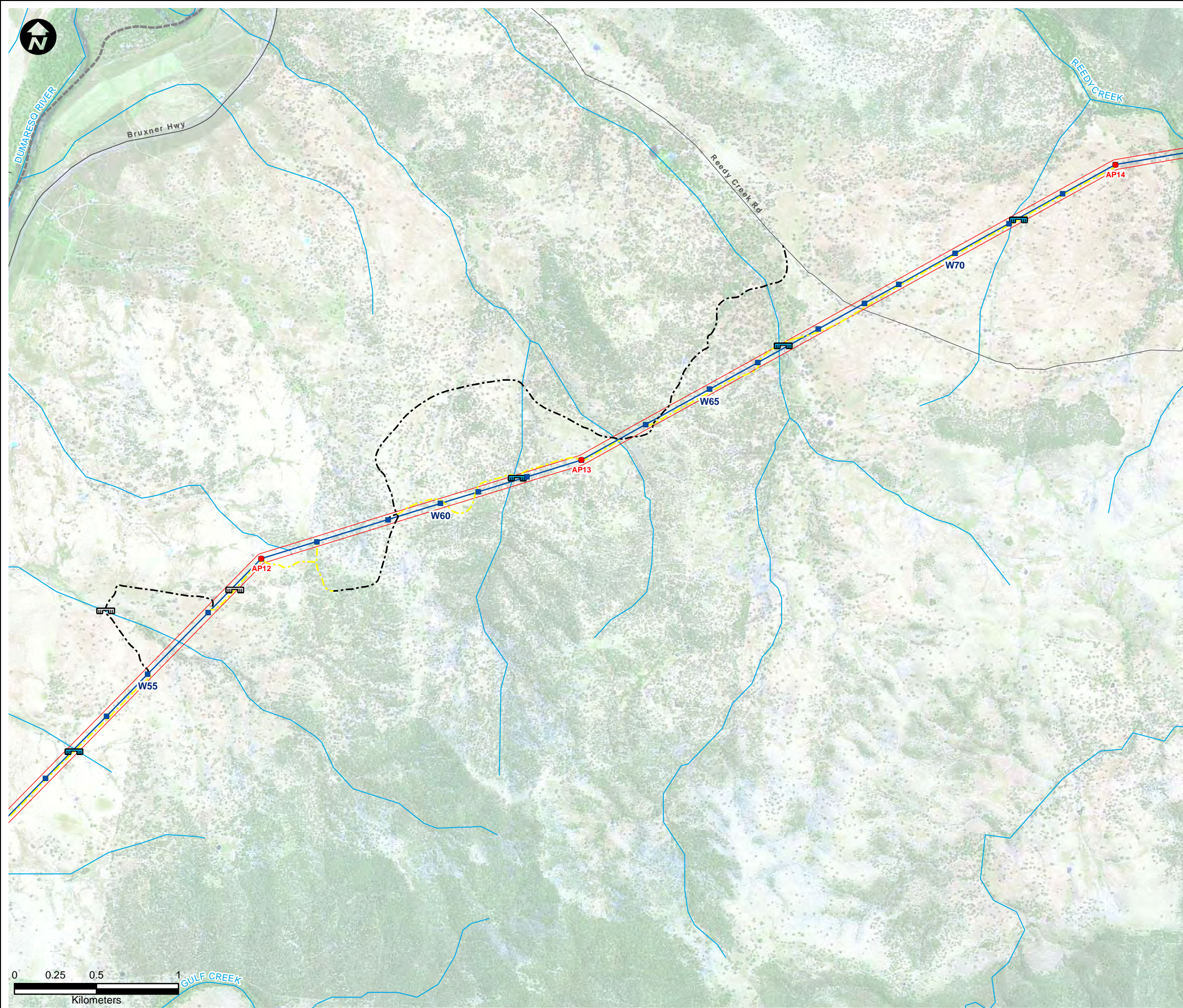


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* Fairfull and Witheridge, 2003
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Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2c		
		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

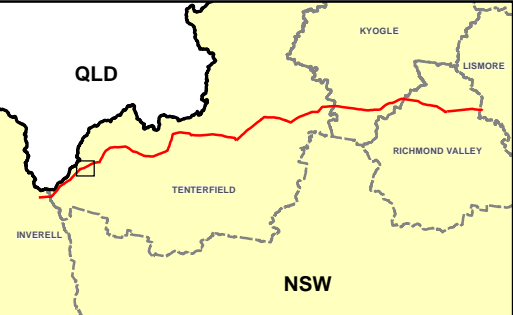
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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^
- Access Tracks:**
 - Category 1*
 - Category 2**
 - Category 3***
 - Creek Crossing (New)
 - Creek Crossing (Upgrade Required)
 - Local Government Area

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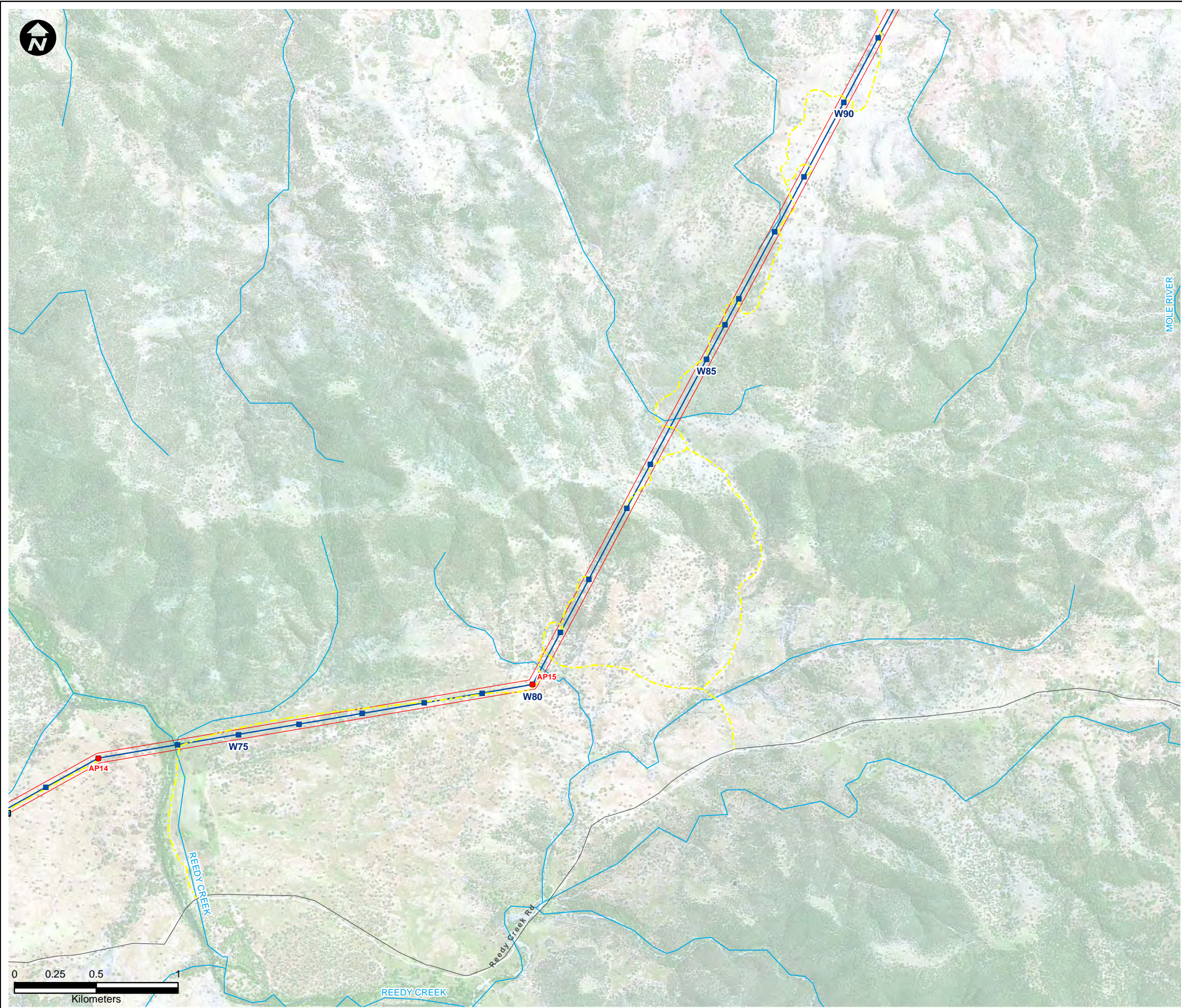


Symbols and lines used in this figure are indicative and are not intended to reflect actual size of represented features.
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Source: Aerial Imagery from TransGrid 2009. ^ TransGrid 2010
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Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
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Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2d		
		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^

Access Tracks:

- Category 1*
- Category 2**
- Category 3***
- Creek Crossing (New)
- Creek Crossing (Upgrade Required)
- Local Government Area

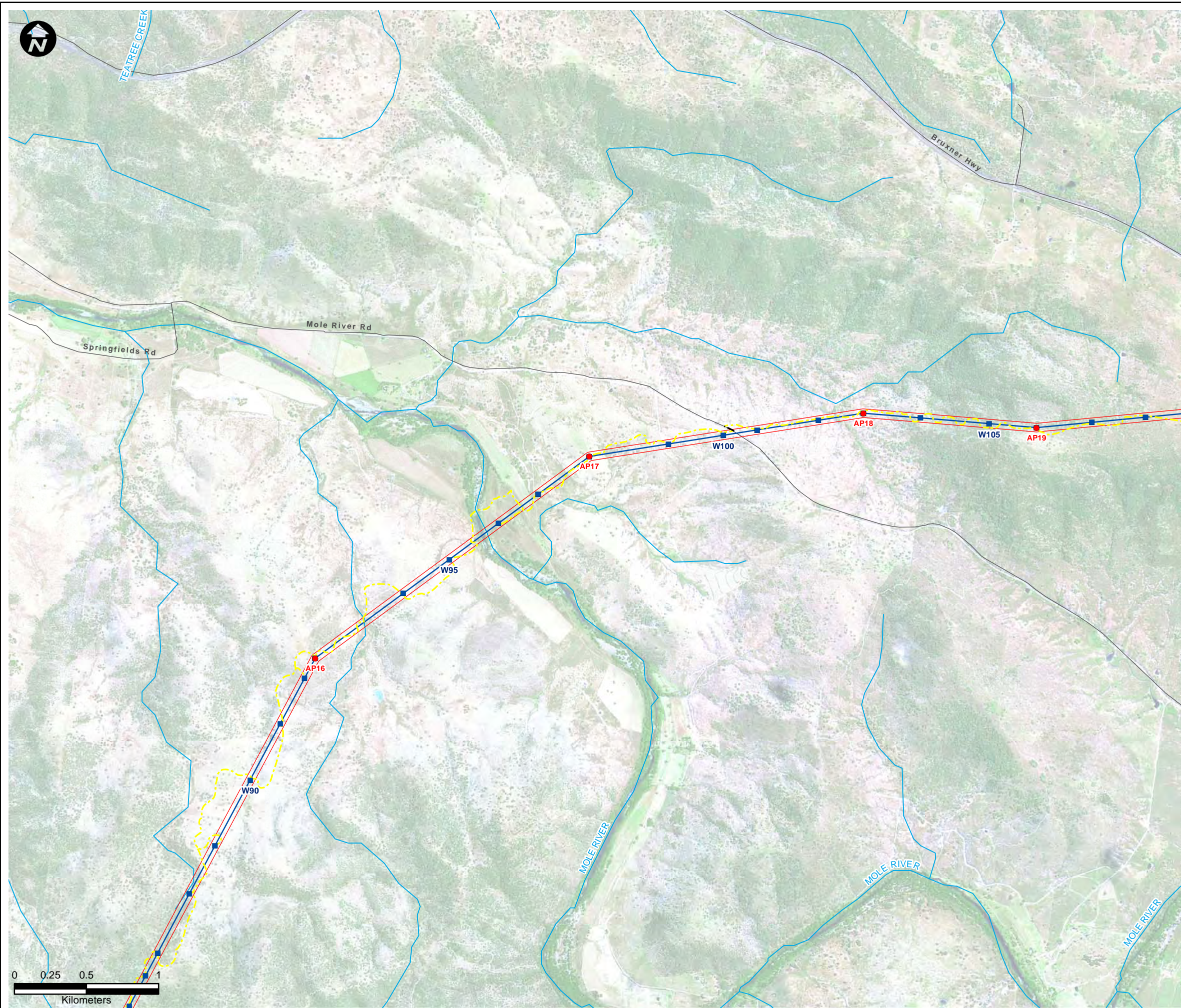
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Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
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Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2e		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

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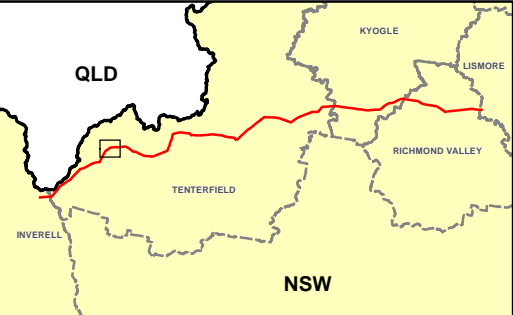
LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^
- Access Tracks:**
 - Category 1*
 - Category 2**
 - Category 3***
- Creek Crossing (New)
- Creek Crossing (Upgrade Required)
- Local Government Area


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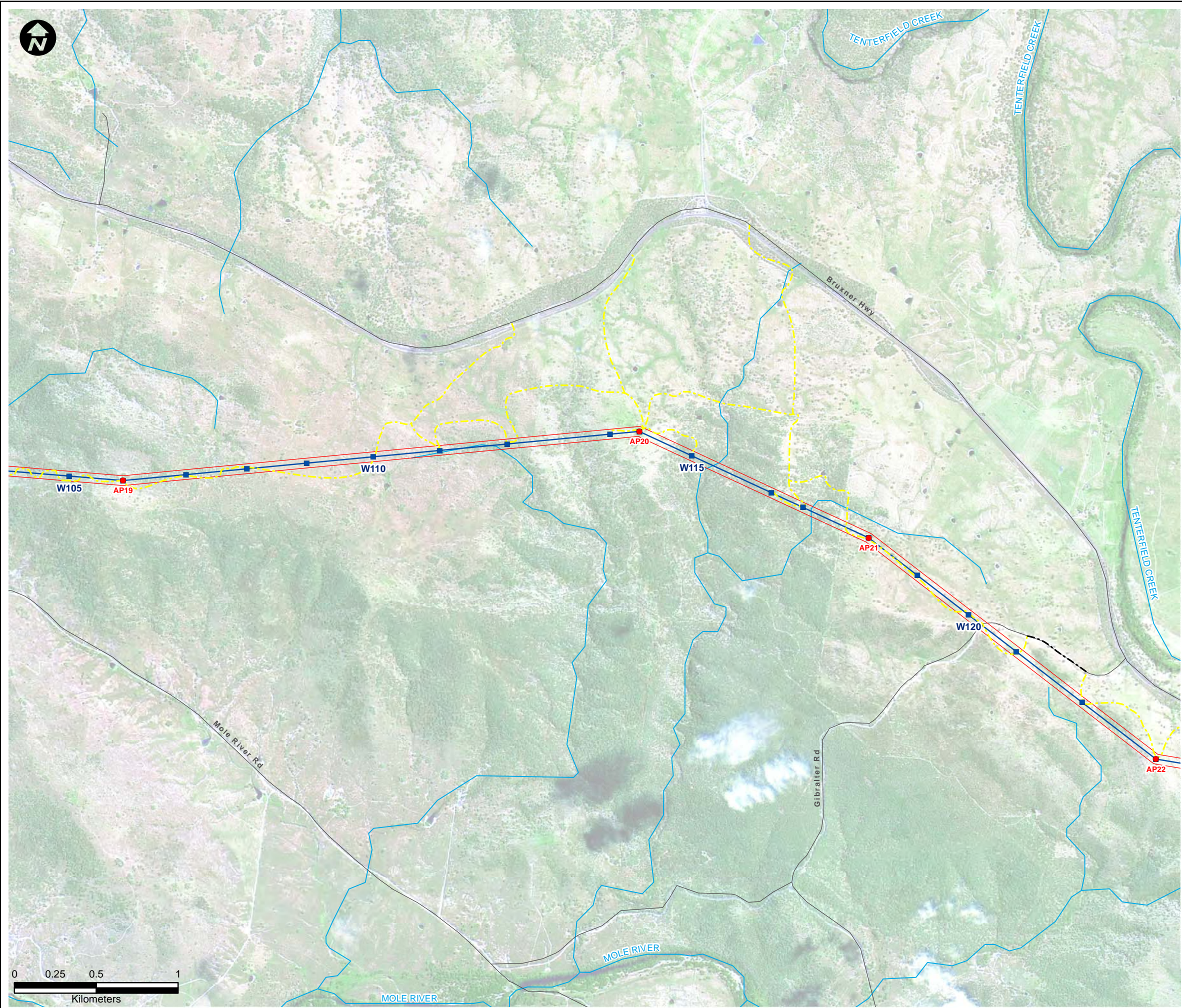


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Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
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Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2f		
		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

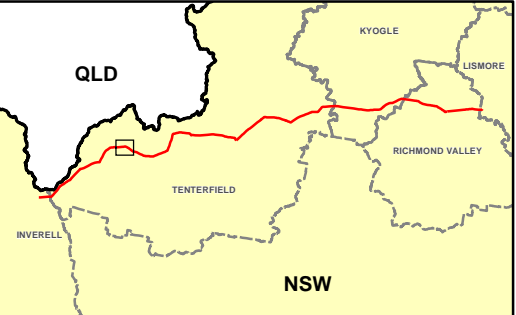
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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^
- Access Tracks:**
 - Category 1*
 - Category 2**
 - Category 3***
 - Creek Crossing (New)
 - Creek Crossing (Upgrade Required)
 - Local Government Area

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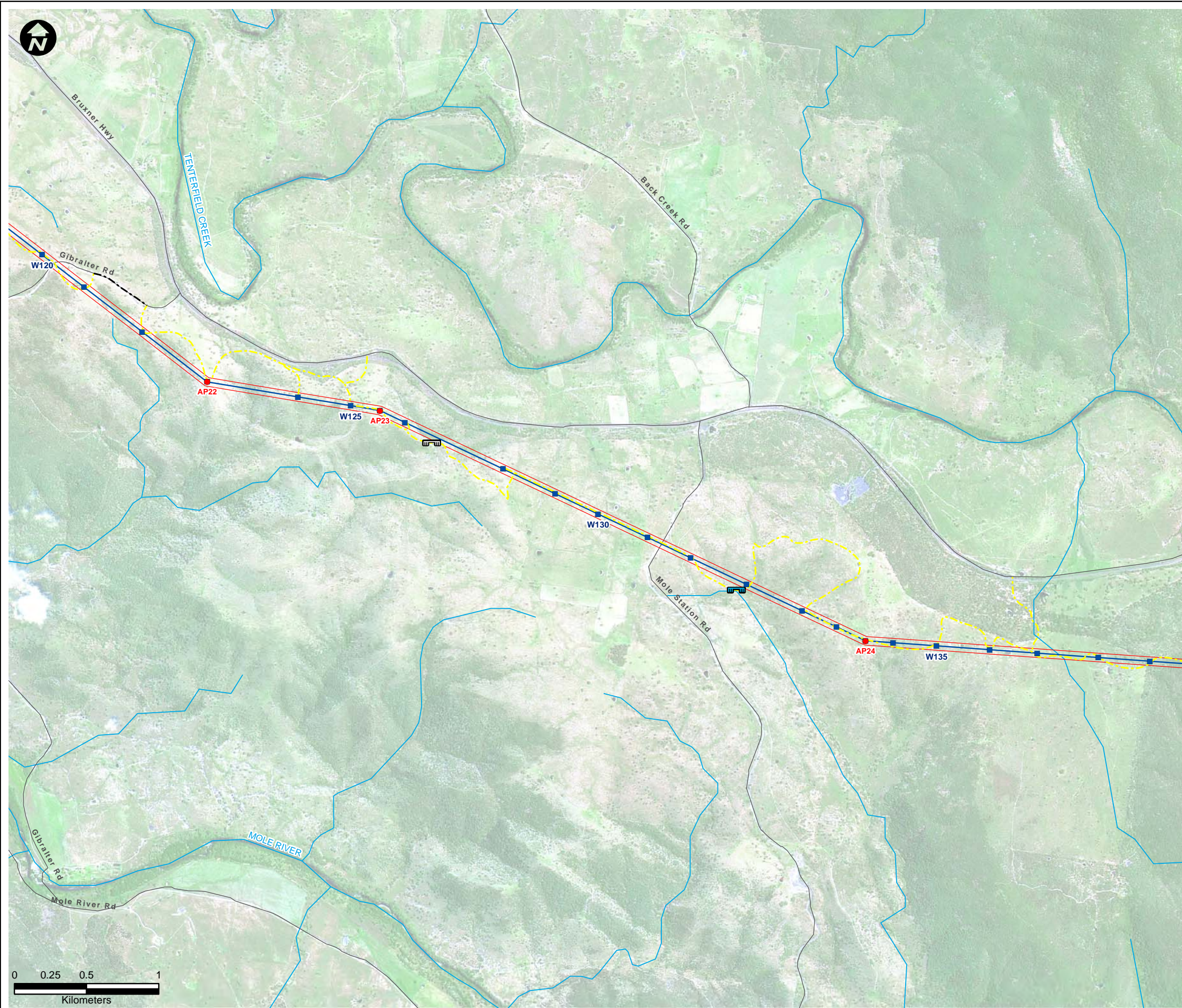


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Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2g		
		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

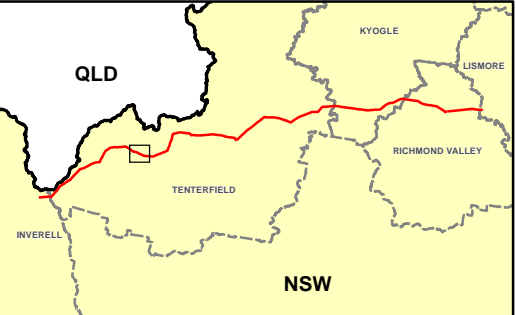
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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^
- Access Tracks:**
 - Category 1*
 - Category 2**
 - Category 3***
 - Creek Crossing (New)
 - Creek Crossing (Upgrade Required)
 - Local Government Area

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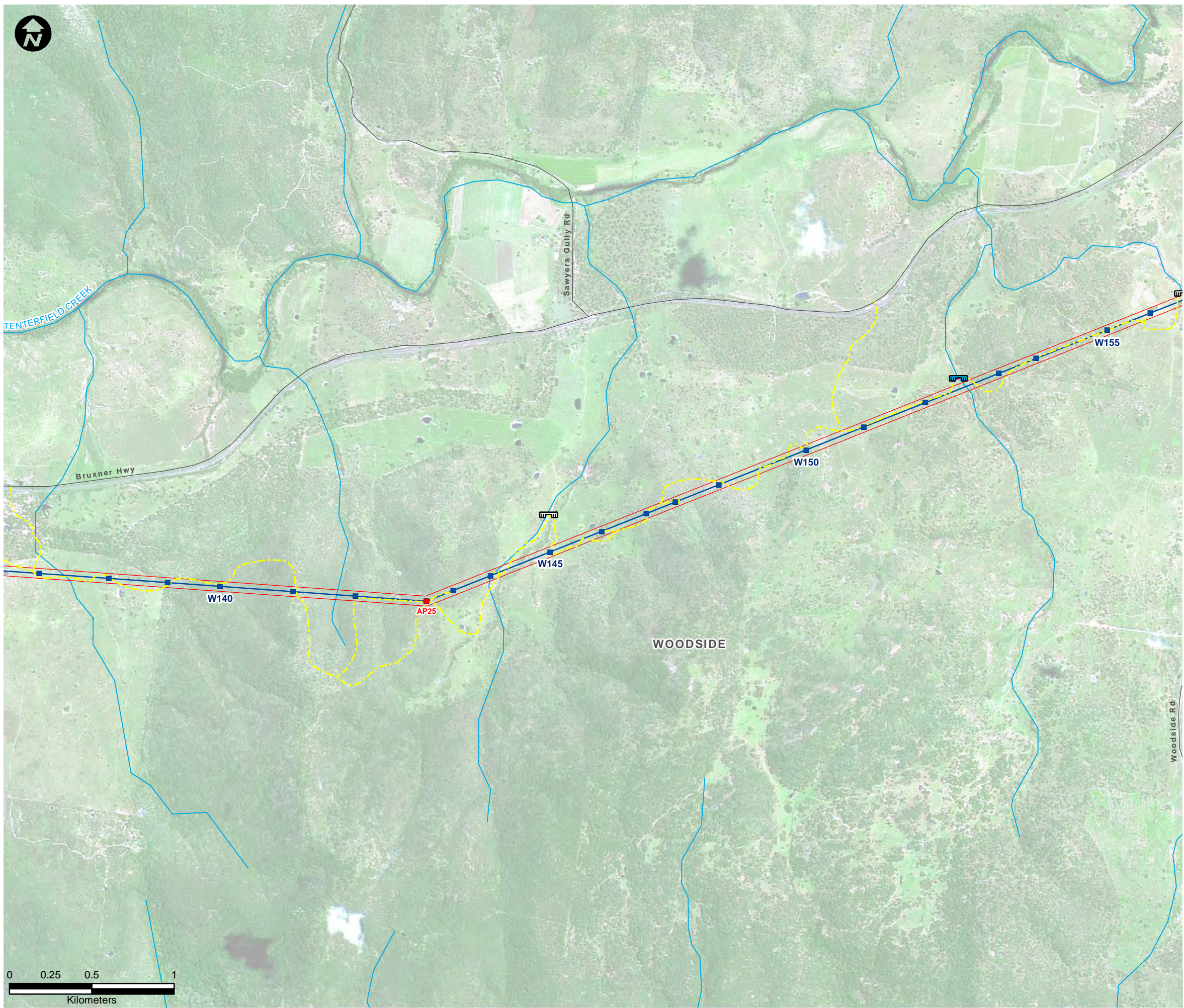


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Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2h		
		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

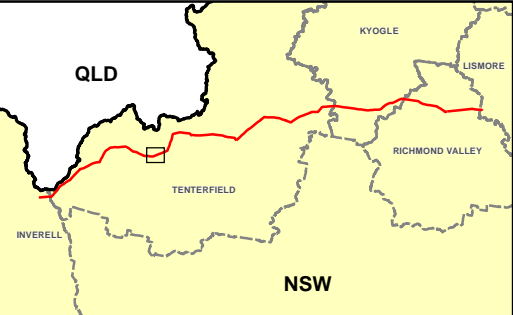
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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^
- Access Tracks:**
 - Category 1*
 - Category 2**
 - Category 3***
 - Creek Crossing (New)
 - Creek Crossing (Upgrade Required)
 - Local Government Area

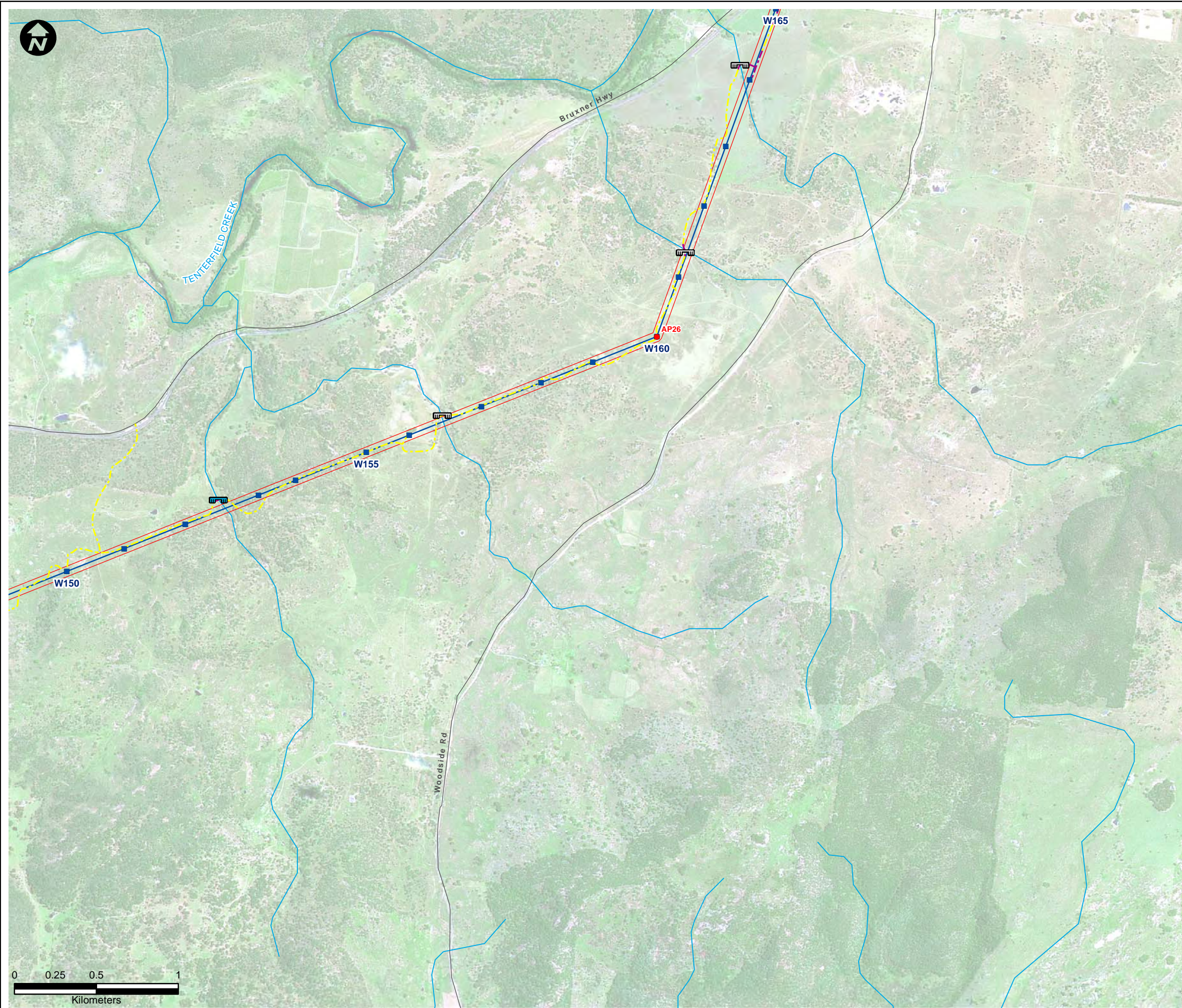
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Drawn: AO/SB	Approved: WM/TH	Date: 24/05/2011
Job No.: 43177662	File No.: 43177662.130.mxd	
Client TransGrid		
Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2i		
		

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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^

Access Tracks:

- Category 1*
- Category 2**
- Category 3***
- Creek Crossing (New)
- Creek Crossing (Upgrade Required)
- Local Government Area

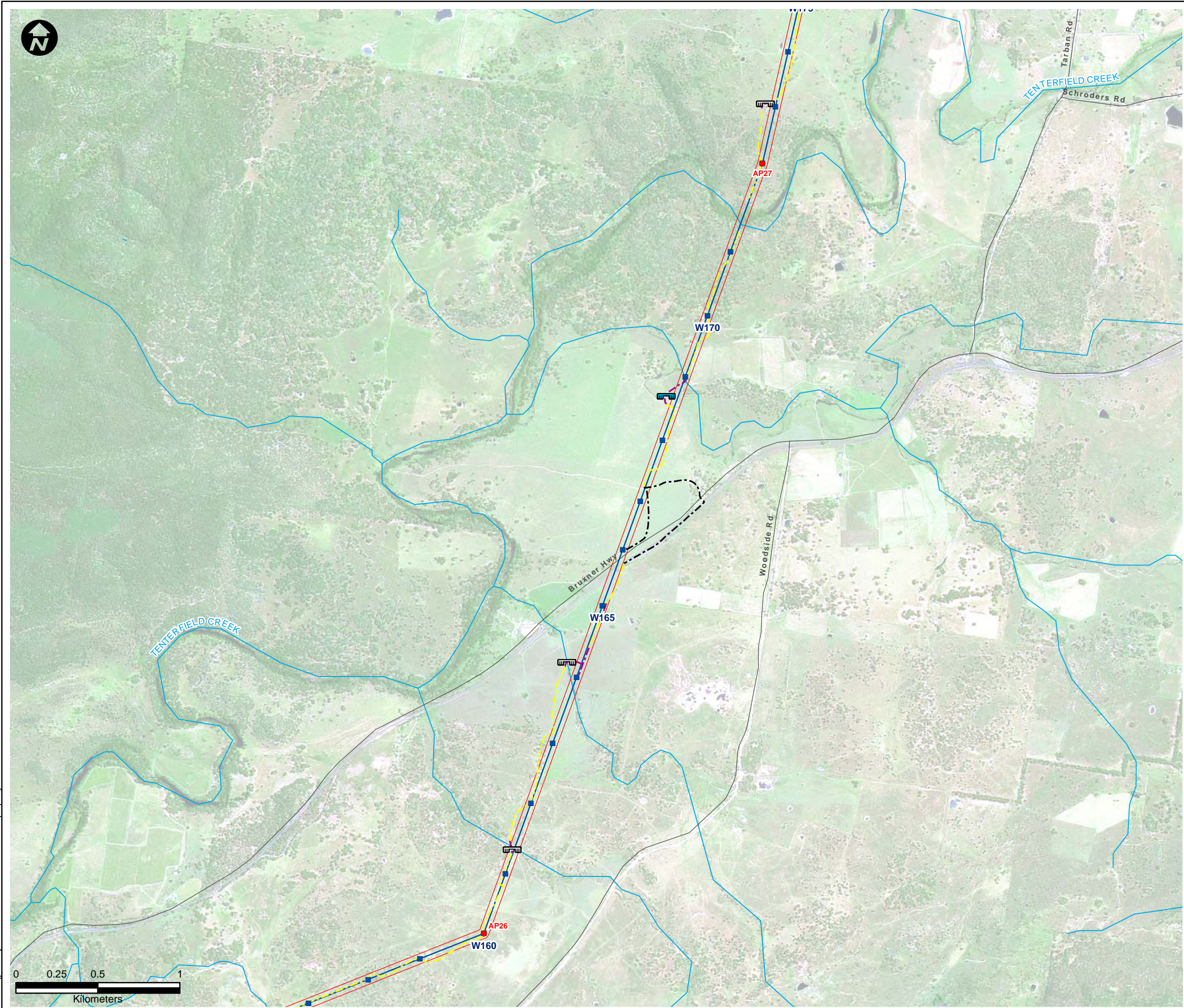
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Client TransGrid		
Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2j		

Datum: GDA94, Projection: UTM, Grid: MGA Zone 56

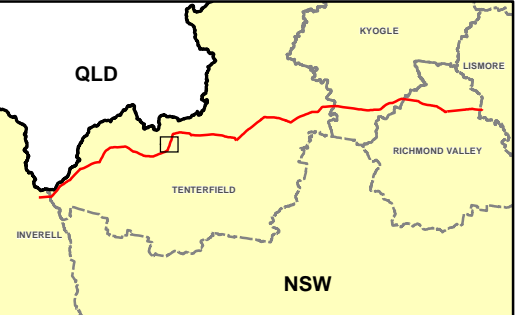
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LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^
- Access Tracks:**
 - Category 1*
 - Category 2**
 - Category 3***
- Creek Crossing (New)
- Creek Crossing (Upgrade Required)
- Local Government Area

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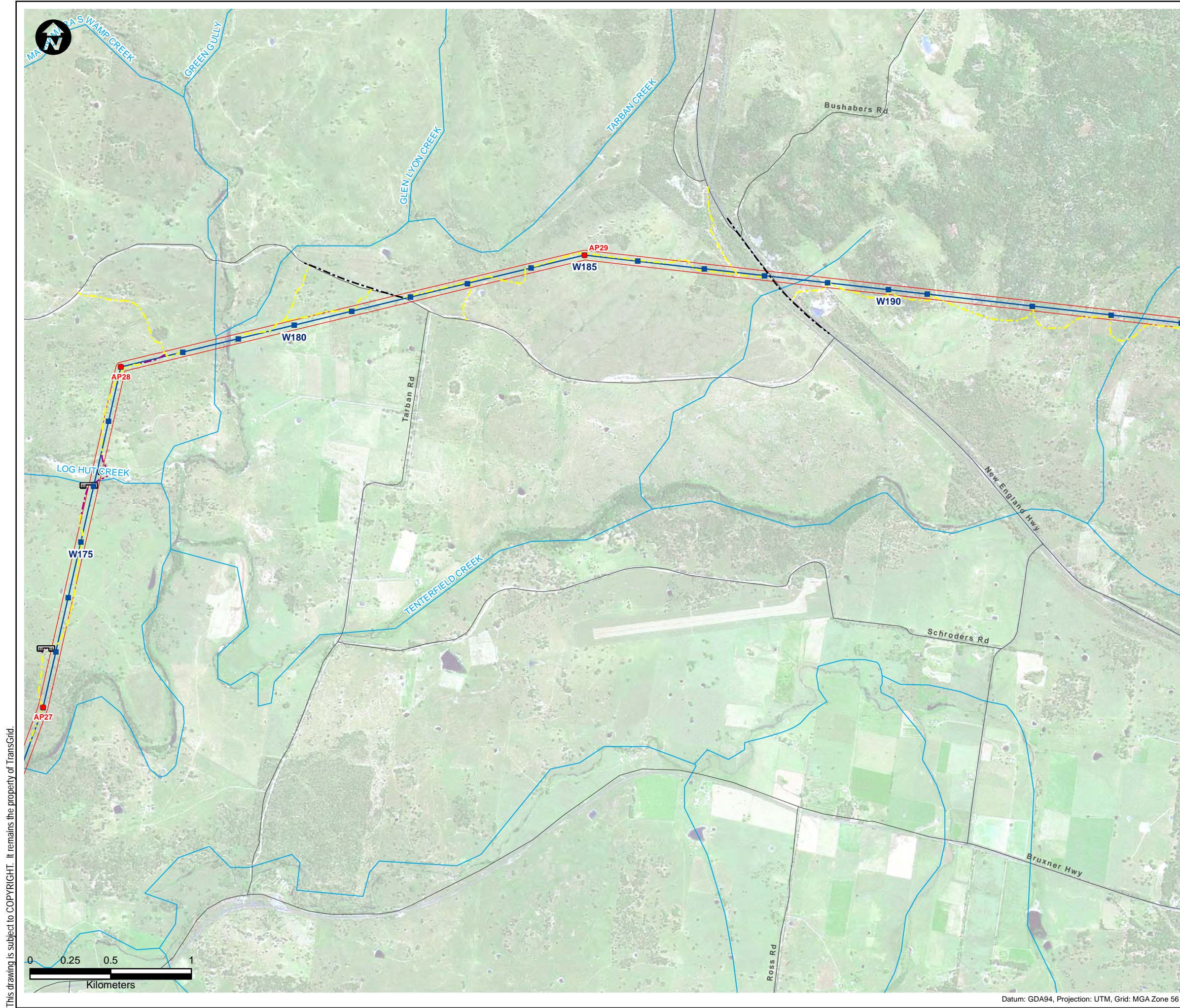


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Project FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT		
Title 330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL		
Figure: 3-2k		



Datum: GDA94, Projection: UTM, Grid: MGA Zone 56



LEGEND:

- Existing 96L 132kV Structure Locations^
- Existing Transmission Lines^
- Proposed 330kV Angle Positions (Indicative)^
- Proposed 330kV Structure Locations (Indicative)^
- Proposed 330kV Centreline^
- Proposed 330kV Easement^
- Substation/Switching Station
- Roads
- Waterways^

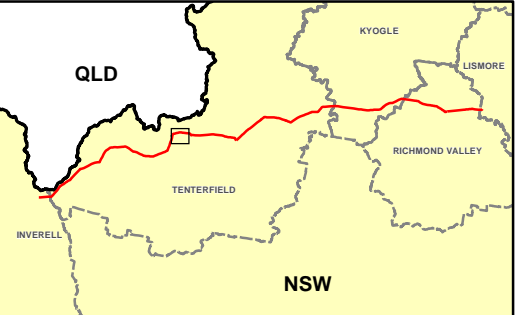
Access Tracks:

- Category 1*
- Category 2**
- Category 3***
- Creek Crossing (New)
- Creek Crossing (Upgrade Required)
- Local Government Area

***Category 1** : Minimal work required. This would include removal of surface obstacles and/or minor upgrades to existing tracks (i.e. resurfacing, widening etc). Some imported sand and gravel may be required.

****Category 2** : Earth works required. Construction of tracks through flat or undulating timbered/rocky areas where existing tracks do not exist. These can range from tracks required over flat plains country, or involve the formation of tracks after cut and fill, rock removal and/or levelling. Newly constructed Category 2 access tracks would typically be topped with approved gravel. Access tracks would be appropriately compacted and graded and included drainage in the direction of the cross fall to ensure tracks could be maintained and erosion impacts from run off minimised.

*****Category 3** : Earth works required in wet or swampy areas. Typically construction would require excavation of unstable material, drainage works and the import of rock material. This rock would be placed upon a geotextile material to provide a stable surface to facilitate the movement of required construction plant and equipment.



Symbols and lines used in this figure are indicative and are not intended to reflect actual size of represented features.
Symbols and lines have been enhanced to aid visibility.
Source: Aerial Imagery from TransGrid 2009. ^ TransGrid 2010
* Fairfull and Witheridge, 2003
Commonwealth of Australia (Geoscience Australia) 2010

Drawn: AO/SB	Approved: WM/TH	Date: 24/05/2011
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Client TransGrid		
Project	FAR NORTH NSW (DUMARESQ - LISMORE 330kV TRANSMISSION LINE) PROJECT	
Title	330kV TRANSMISSION LINE ALIGNMENT AND ACCESS TRACKS AERIAL	
Figure: 3-2I		
