

APPENDIX 2 – DRAINAGE STRUCTURES

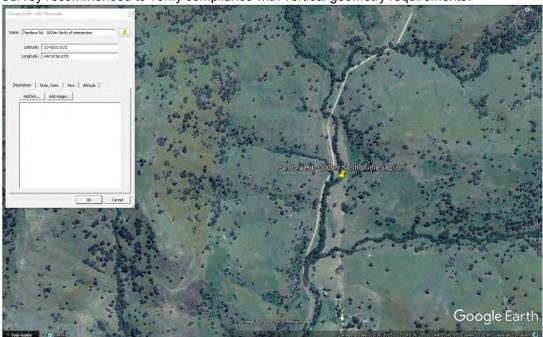


<u>APPENDIX 2 - DRAINAGE AND CREEK CROSSING STRUCTURES</u>

Note: Road names are based on Google Maps

S001 – Pandora Rd – 3000m North of Coolah Creek Intersection 4000mm Causeway

Survey recommended to verify compliance with vertical geometry requirements.



S001 - Location Plan



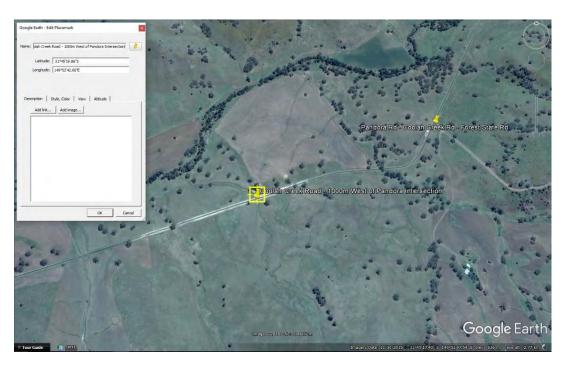
S001 - View to North



S002 - Coolah Creek Rd - 1000m West of Pandora Rd

4-750mm Pipe Culvert

Fair and Serviceable Condition, Good Internal Condition



S002 - Location Plan

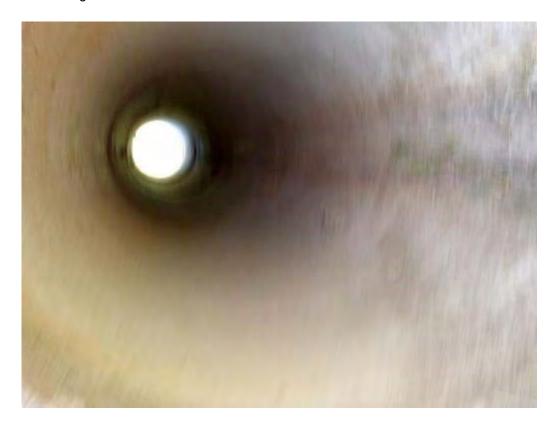


S002 - View to North





S002 - Edge View of Road

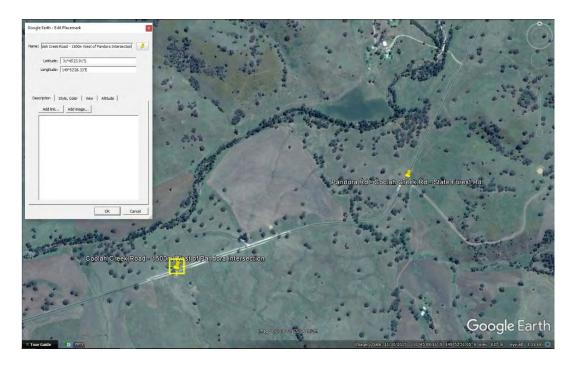


S002 - Internal View Good Condition



S003 - Coolah Creek Rd - 1500m West of Pandora Intersection

3-900mm Pipe Culvert Good Condition and Serviceable



S003 - Location Plan



S003 - View to East





S003 - 3 - 900mm Pipe Culvert



S004 - Oakdale Rd - 300m North of Coolah Creek Rd

Concrete Causeway, Submerged and Flood Prone. Poor Condition and Serviceable. Upgrade likely required. Surface on Causeway is slippery due to moss



S004 - Location Plan



S004 - View to North





S004 - Top View of Causeway, Slippery Mossy Surface as Shown



S005 - Coolah Creek Rd - 1250m West from Oakdale-Coolah Creek Intersection

Concrete causeway with bitumen seal - 3-1200mm Pipe Culvert,

Entrance to culvert is blocked,

Further inspection of internal condition is required

Fair condition and Serviceable



S005 - Location Plan



S005 - Blocked Pipe Culvert

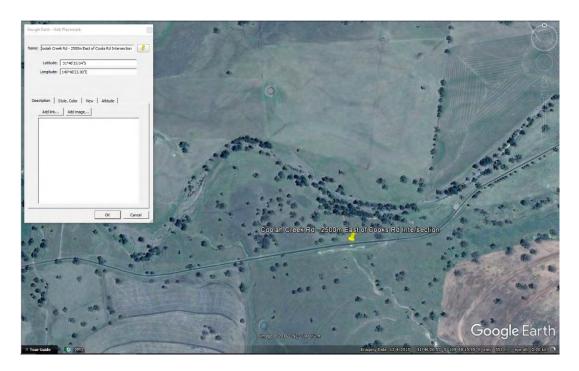




S005 - View to East



S006 – Coolah Creek Rd - 2500m East of Cooks Dr Intersection 1200mm Pipe Culvert Good condition and Serviceable



S006 - Location Plan

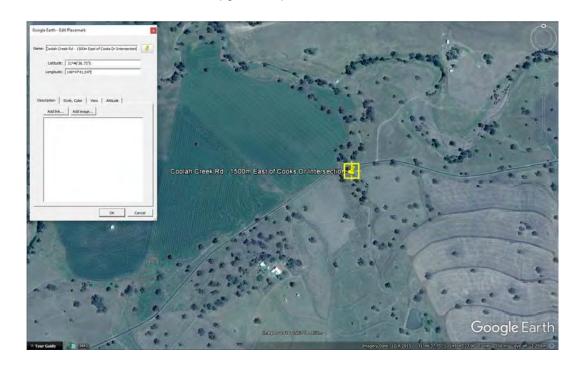


S006 - View to East



S007 - Coolah Creek Rd - 1500m East of Cooks Dr Intersection

Concrete causeway 3-1050mm Pipe Culvert Big invert cracks internally Poor condition and serviceable, upgrade required.



S007 - Location Plan



S007 - 3-1050 Pipe Culvert, Crack shown on bottom side of middle Culvert



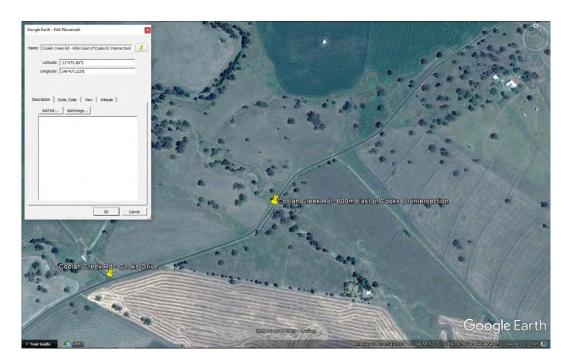


S007 – Internal View, Crack shown along circumference at Mid-Length



S008 - Coolah Creek Rd - 600m East of Cooks Dr Intersection

3 -1200mm Pipe Culvert Fair Condition and serviceable



S008 - Site Location



S008 - View to North





S008 - View Down River



S008 – 3 × 1200mm Pipe Culvert



S009 - Coolah Creek Road - 1250m West of Cooks Drive Intersection

4-1200mm Wide-450mm High Reinforced Concrete Box Culvert – Skewed across road alignment. Good Condition and Serviceable



S009 - Location Plan



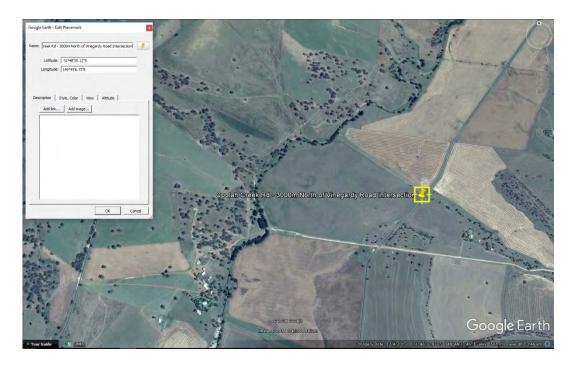
S009 – 4-1200mm Wide-450mm High Reinforced Concrete Box Culvert



S010 - Coolah Creek Rd - 3000m North of Vinegaroy Road Intersection

3-1050mm Pipe Culvert

Moderate Condition and Serviceable. Poorly maintained.



S010 - Location Plan

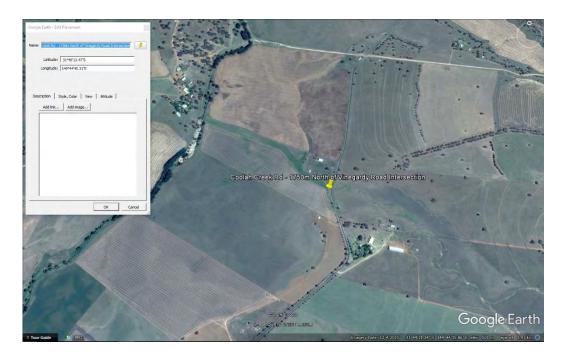


S010 – View to North



S011 - Coolah Creek Rd - 1750m North of Vinegaroy Road Intersection

Concrete Causeway 3-1050mm Pipe Culvert Internal Condition is satisfactory. Good Condition and Serviceable



S011 - Location Plan

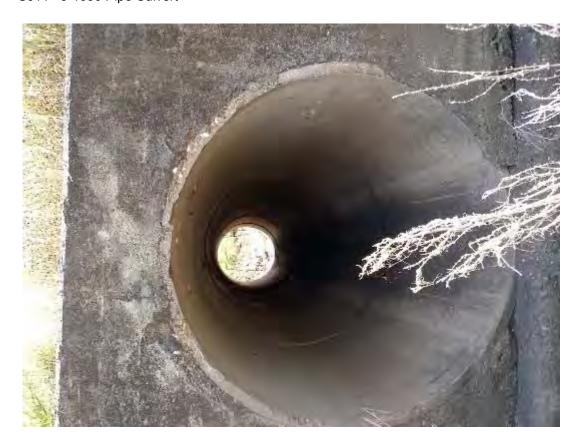


S011 – View to South Level 2, 39 Sherwood Road Toowong QLD 4066





S011 -3-1050 Pipe Culvert



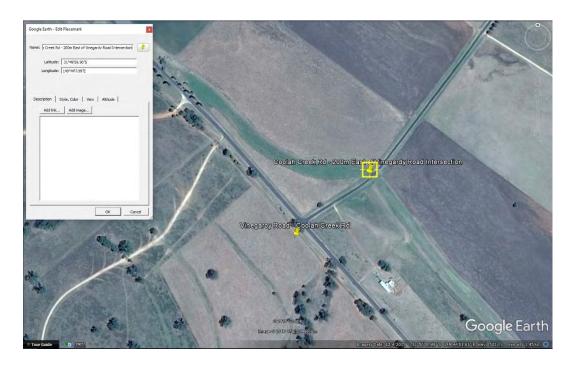
S011 - Interior View

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S012 - Coolah Creek Rd - 200m East of Vinegaroy Road Intersection

7500mm wide Concrete Causeway with bitumen seal, 3-750mm high-2400mm long reinforced concrete box culvert Fair condition and serviceable



S012 - Location Plan



S012 - View to South

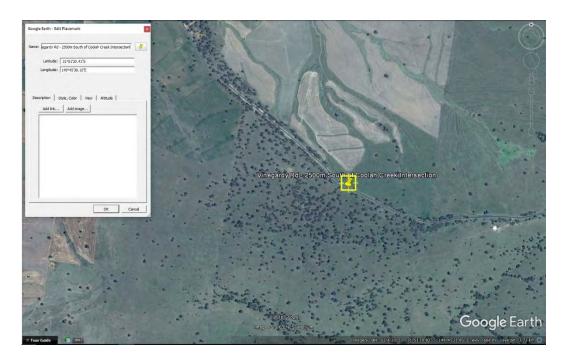




S012 – 3-750mm high-2400mm long reinforced concrete box culvert



S013 - Vinegaroy Rd - 2500m South of Coolah Creek Intersection 1200mm Pipe Culvert Good Condition and Serviceable



S013 - Location Plan



S013 - View to North



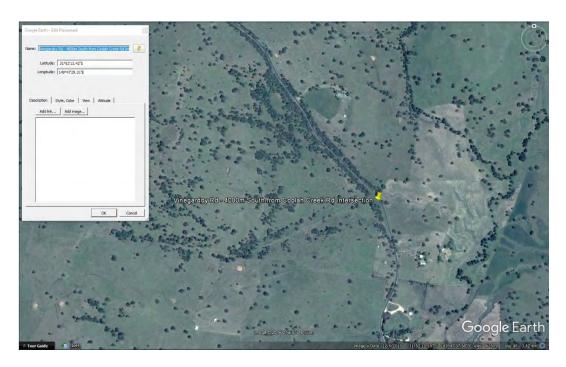


S013 - Single 1200mm Pipe Culvert



S014 - Vinegaroy Rd - 4000m South from Coolah Creek Rd Intersection

Causeway Dual-1200mm pipe culvert Skewed and not level Moderate condition and Serviceable



S014 - Location Plan



S014 - View to North



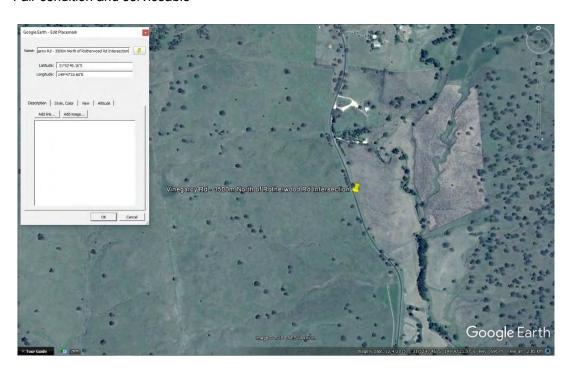


S014 - Dual 1200mm Pipe Culvert



S015 - Vinegaroy Rd - 3500m North of Rotherwood Rd intersection 450mm pipe culvert

Fair condition and serviceable

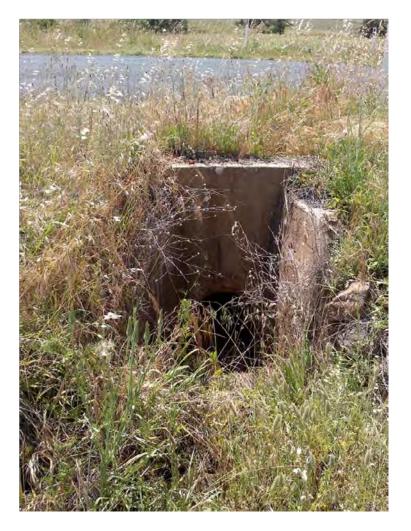


S015 - Location Plan



S015 - View to East





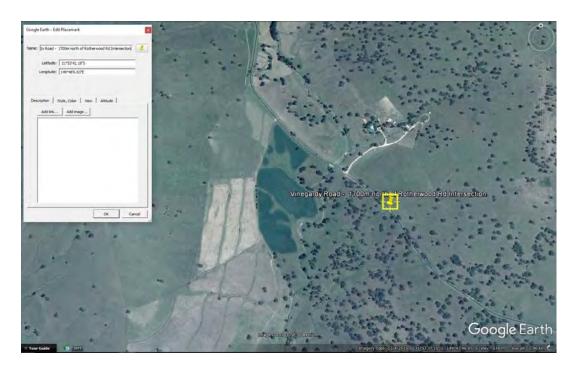
S015 – 450mm Pipe Culvert



Dual 900mm Pipe Culvert.

Scouring of outlet visible.

Moderate Condition and Serviceable.



S016 - Location Plan



S016 – Dual 900mm Pipe Culvert







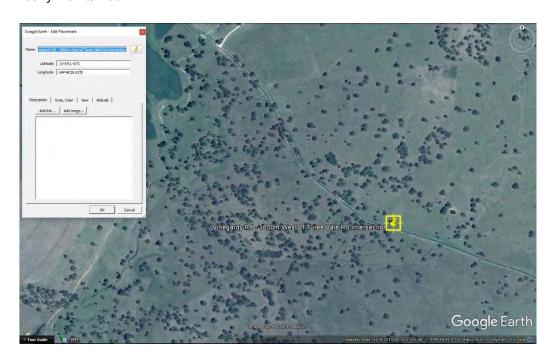
S016 - View North





S017 - Vinegaroy Rd - 1800m West of Turee Vale Rd Intersection

Dual-1050mm pipe culvert Fair condition and serviceable. Poorly maintained.



S017- Location Plan



S017 - Dual-1050mm Pipe Culvert





S017 - View to North-West



S018 - Vinegaroy Rd- 2200m West of Rotherwood Rd Intersection

450mm Pipe Culvert

Currently blocked, to be reassessed prior to construction. Moderate condition and serviceable. Maintenance required.



S018 - Location Plan



S018 - Blocked Pipe Culvert



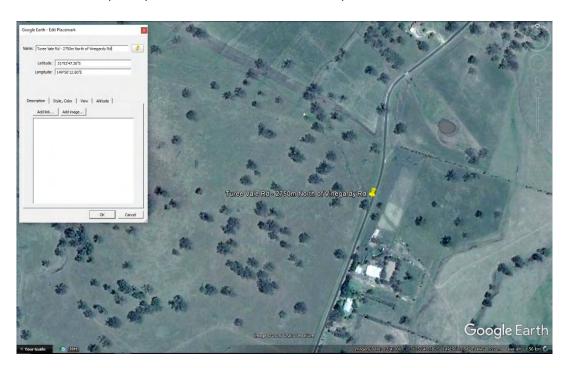


S018 - View to West



S019 - Turee Vale Rd - 2750m North of Vinegaroy Rd

Pipe culvert not accessible. Dimensions and condition unknown. Maintenance required prior to construction to enable inspection.



S019 - Location Plan

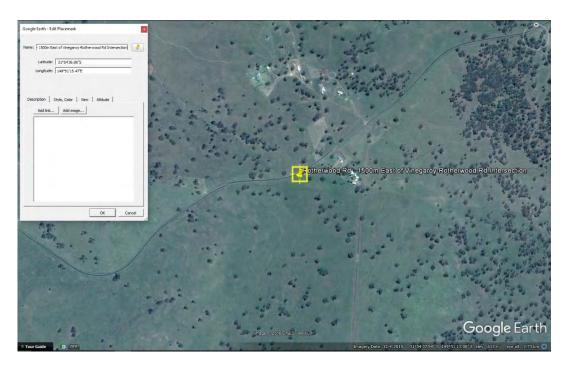


S019 - View to North



S023 - Rotherwood Road - 1500m East of Vinegaroy Intersection

Dual 1200mm-600mm Reinforced Concrete Box Culvert Fair Condition and Serviceable



S023 - Location Plan

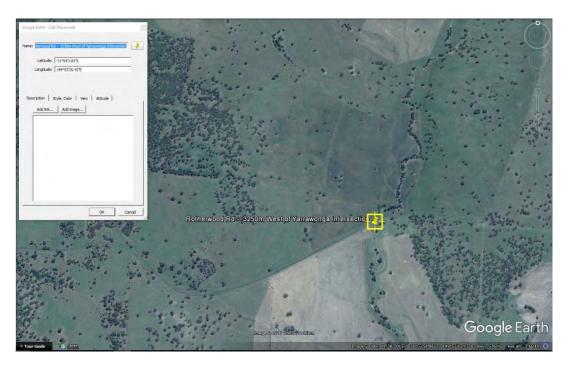


S023 - View to East

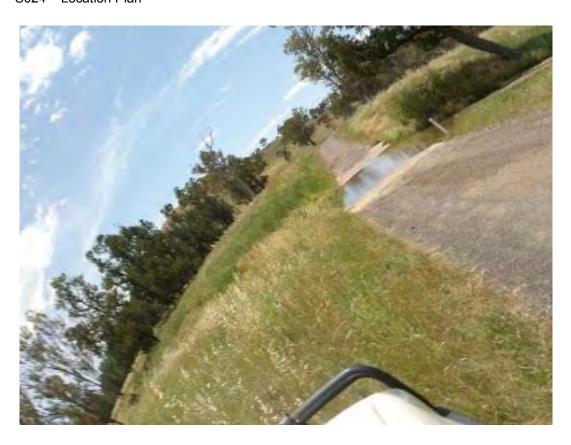


S024 - Rotherwood Rd - 3250m West of Yarrawonga Intersection

Causeway on Starkey Creek Submerged and prone to flooding Poor condition, upgrade required.



S024 - Location Plan



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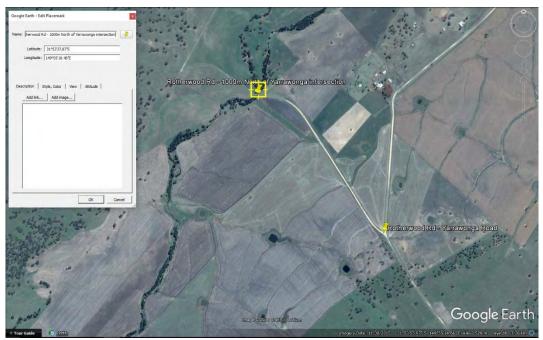


S024 - Causeway



S025 - Rotherwood Road 1000m North of Yarrawonga Intersection

Concrete Causeway 750mm invert culvert Fair condition and serviceable



S025 - Location Plan



S025 - View East





S025 - Invert Culvert



S025 – Top View





S025 - Edge of culvert is worn.

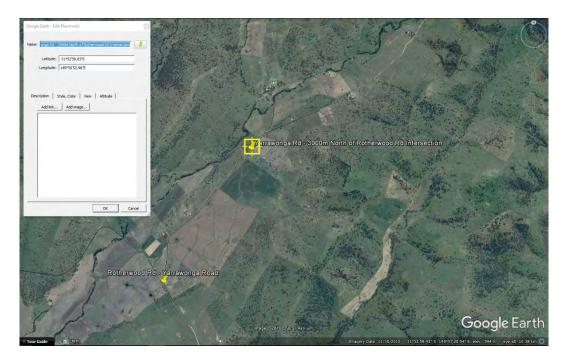


S026 - Yarrawonga Rd - 3000m North of Rotherwood Rd Intersection

600mm Pipe Culvert

Blocked and inaccessible

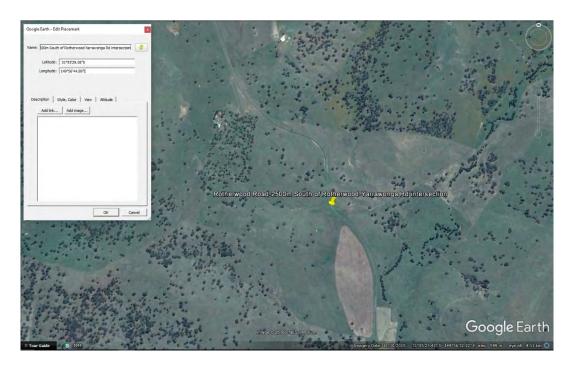
Maintenance and further inspection required.



S026 - Location Plan



S027 – Rotherwood Road 2500m South of Rotherwood-Yarrawonga Rd intersectionDual 1200mm pipe culvert Moderate condition and serviceable



S027 - Location Plan

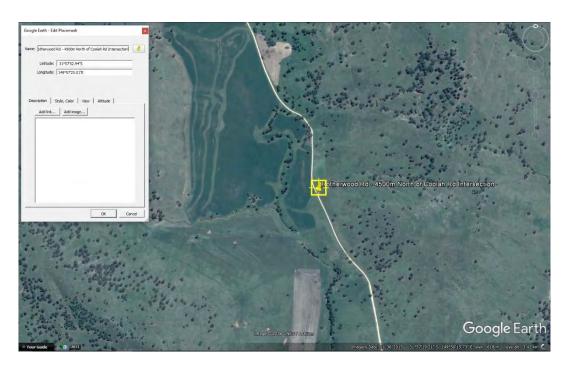


S027 – Dual Pipe Culvert



S029 - Rotherwood Road 4500m North of Coolah Rd intersection

Causeway, 900mm Pipe Culvert Moderate Condition and Serviceable



S029 - Location Plan

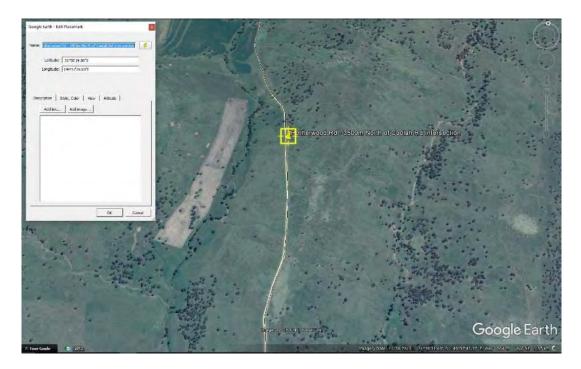


S029 – View from West



S030 - Rotherwood Rd - 3500m North of Coolah Rd Intersection

750mm Pipe Culvert Cracked head wall, No photo evidence of culvert but location of medium importance Will require further inspection



S030 - Location Plan

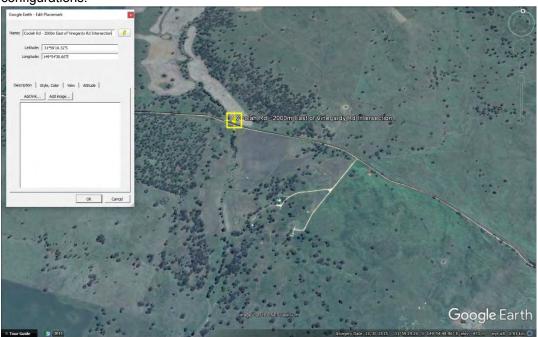


S031 - Coolah Rd - 2000m East of Vinegaroy Rd Intersection

Causeway

No culvert

Survey required to verify compliance with vertical geometry requirements of the proposed heavy vehicle configurations.

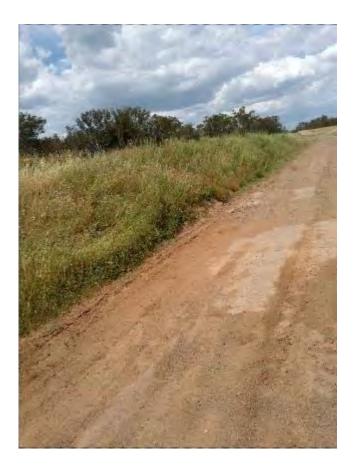


S031 - Location Plan



View to East

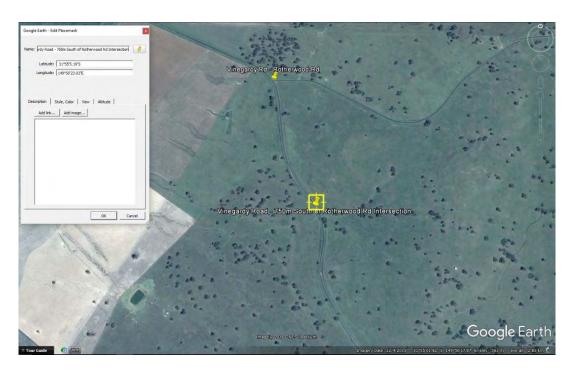




S031 - View to East, Steep section of Road



S032 – Vinegaroy Road – 750m South of Rotherwood Rd – Vinegaroy Rd Intersection 1200mm - 900mm Reinforced concrete box culvert Moderate condition and serviceable



S032 - Location Plan



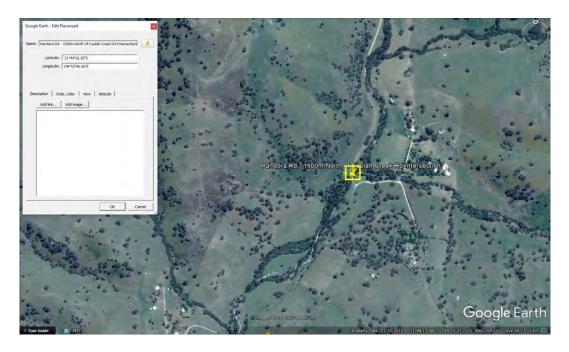
S032 - Box Culvert





S033 - Pandora Rd - 1500m North of Coolah Creek Intersection

4000mm-20000mm Concrete causeway Poor condition and serviceable Upgrade may be required



S033 - Location Plan



S033 - 4000mm - 20000mm Causeway Level 2, 39 Sherwood Road <u>mail@icubed.com.au</u> Toowong QLD 4066

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S034 - Coolah Creek Rd - 2500m East of Cooks Rd Intersection

Dual 1200mm pipe culvert and 900mm diameter pipe culvert drop inlet. Good Condition and Serviceable.



S034 - Location Plan



S034 – Dual 1200mm + 900mm pipe culvert drop inlet





S034 - View to East



S034 -View to North



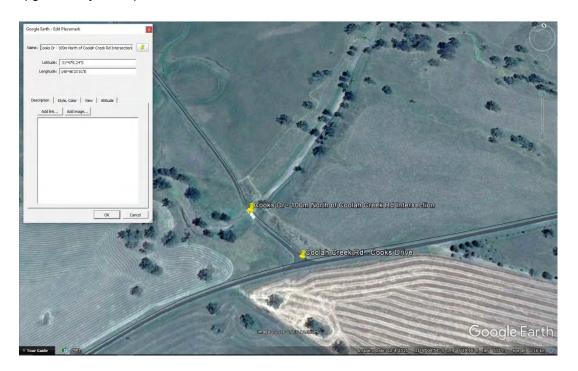
S035 - Cooks Dr - 100m North of Coolah Creek Rd Intersection

Approximately 4900mm-2000mm Floodway

Moderate condition and serviceable,

Survey required to verify compliance with vertical geometry requirements of the proposed heavy vehicle configurations.

Upgrade may be required.



S035 - Location Plan



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S035 - View of Causeway

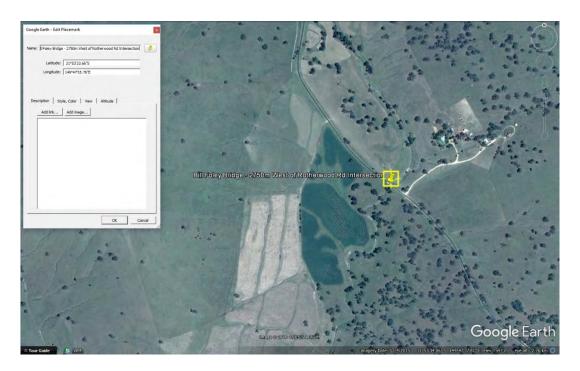


S035 - View to South towards location, 'Road subject to Flooding' sign observed



Bill Foley Bridge - 2750m West of Rotherwood Rd

Reinforced concrete bridge labelled "1965 DMR" on Croppy Creek 4×7600 mm spans by 7500mm with 4×360 mm columns/bents Fair condition and serviceable



S036 - Location Plan



S036 - Soffit View





S036 - View to North



S036 - View to North





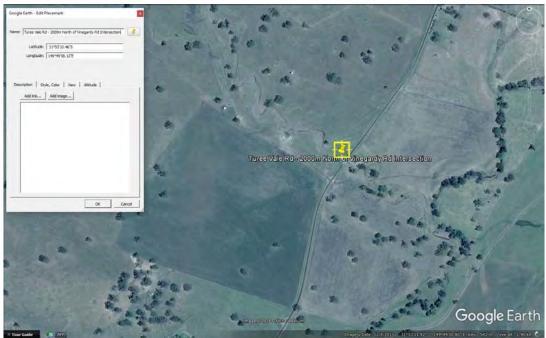
S036 - Bridge Label



S037 - Turee Vale Rd - 2000m North of Vinegaroy Rd Intersection

5500mm by16000mm concrete causeway with 1250mm pipe culvert Exposed reinforcing steel will require repair.

Survey required to verify compliance with vertical geometry requirements of the proposed heavy vehicle configurations.



S037 - Location Plan



S037 - 1250mm Pipe Culvert





S037 – High flow water has eroded the concrete exposing the reinforcing Steel



S037 - View to South