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ISCC20 REPORT

28/02/2023

24-28 Glenn Innes Rd, Inverell.

The following report is for the proposed construction DA-129/2022 on 24-28 GLEN INNES RD / 1-7 CHESTER ST / CHESTER LANE, INVERELL (1-2/1279101;1/334109;2/322074;1-2/326225; 3D/360441) in response to CNR-45686 from Fiona Duncan to Inverell Shire Council. Plans supplied by North Coast Petroleum.

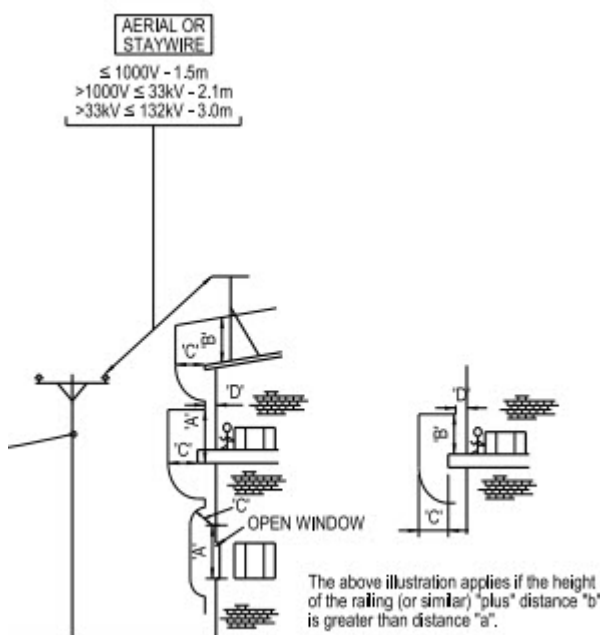
The report is to show clearances from the existing 11KV & LV Essential Energy Mains adjacent to the property front boundary & the clearances are within the 5m tolerances of the ISCC 20 document but do not breach the clearances that meet the EE standard CEOM7106.25.

CEOM 7106.25 Table

POSITION	CLEARANCE @ POSITION						
	≤1000V			>1000V		>1000V ≤33kV	>33kV ≤132kV
	INSULATED & LV ABC	BARE NEUTRAL	BARE ACTIVE	INSULATED WITHOUT EARTHED SCREEN	INSULATED WITH EARTHED SCREEN	BARE	BARE
A	2.7m	2.7m	3.7m	3.7m	2.7m	4.5m	5.0m
B	2.00m	2.7m	2.7m	2.7m	2.7m	3.7m	4.5m
C	1.25m	1.25m	1.5m	1.5m	1.5m	2.1m	3.0m
D	*0.1m	*0.3m	*0.6m	0.6m	0.1m	1.5m	2.5m

* - this clearance can be further reduced to allow for termination @ the point of attachment.

Clearance Diagram

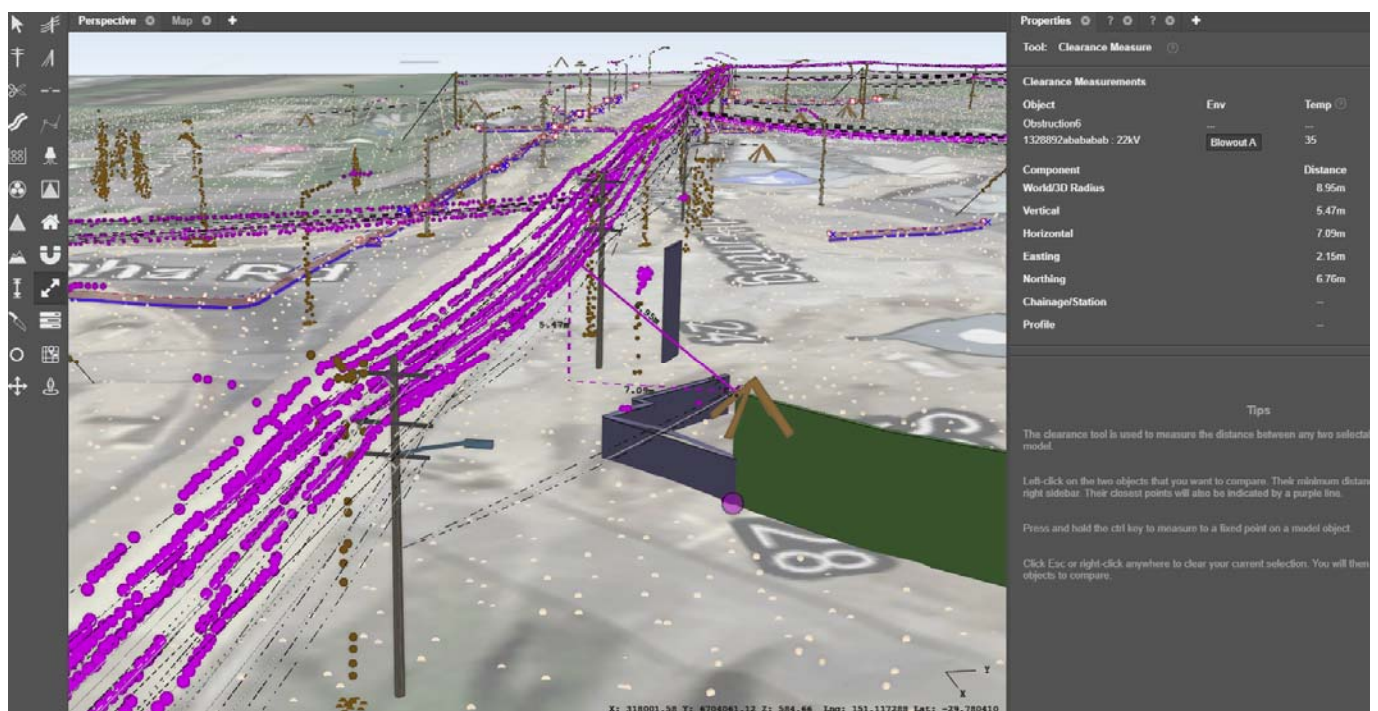


A survey was undertaken of the existing powerlines adjacent to the road frontage & a proposed plan of the existing powerline & the proposed new development constructions supplied by NDC the registered surveyor for the project.

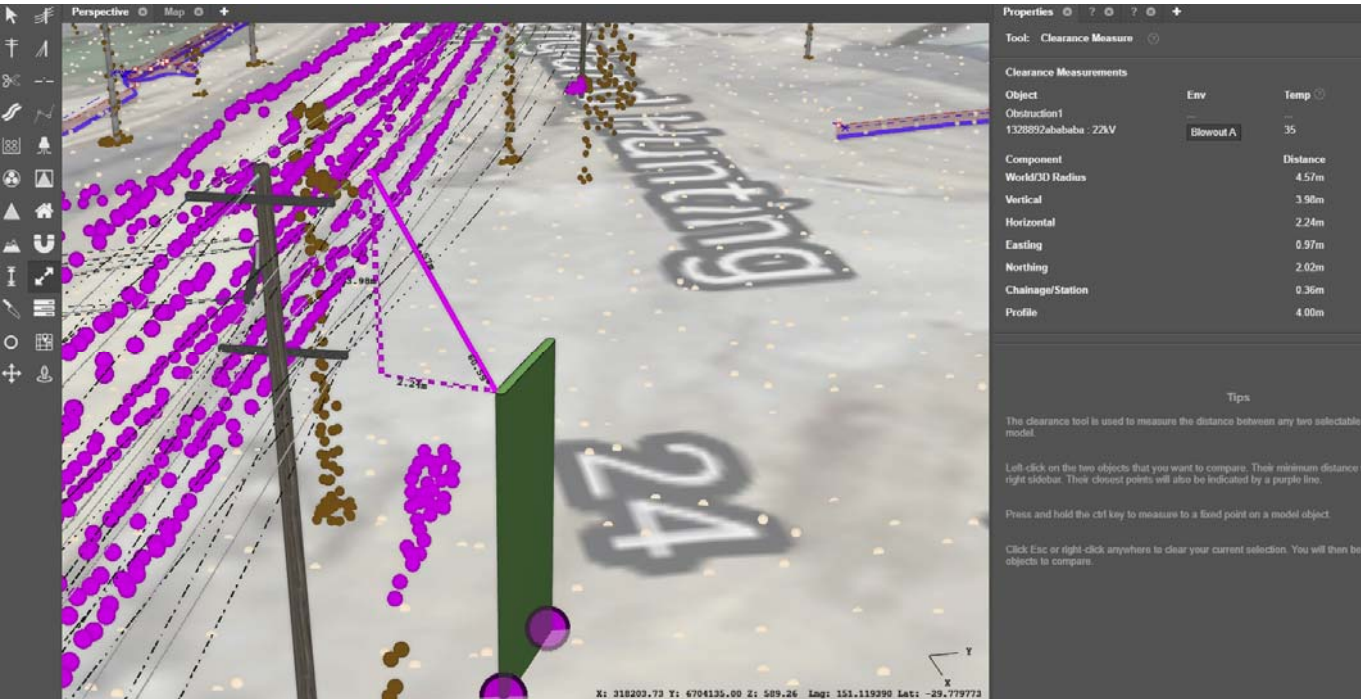
The plans attached show the location of the existing 11KV & LV conductors and the proximity of the proposed new structures to the EE conductors.

Below are screen shots of the level 3 design software showing clearances from the proposed building and sign to the relevant powerline blowout conditions.

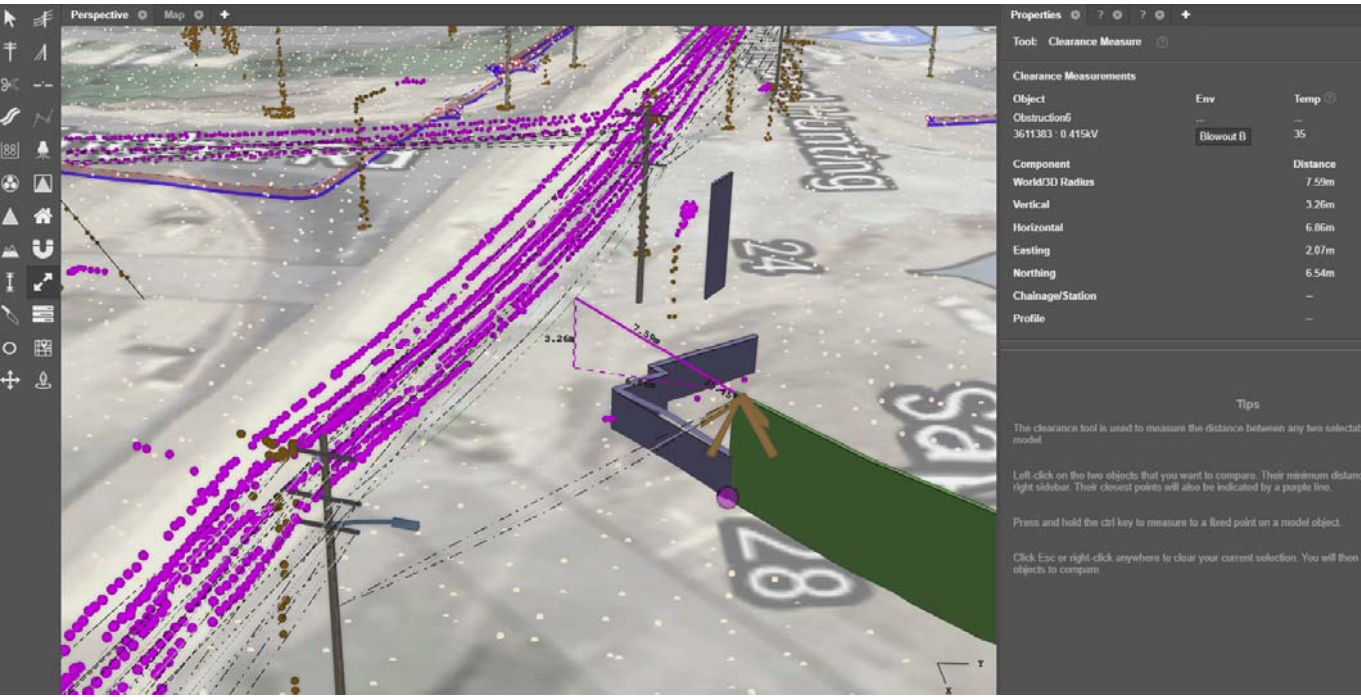
11KV Profile to closest building wall



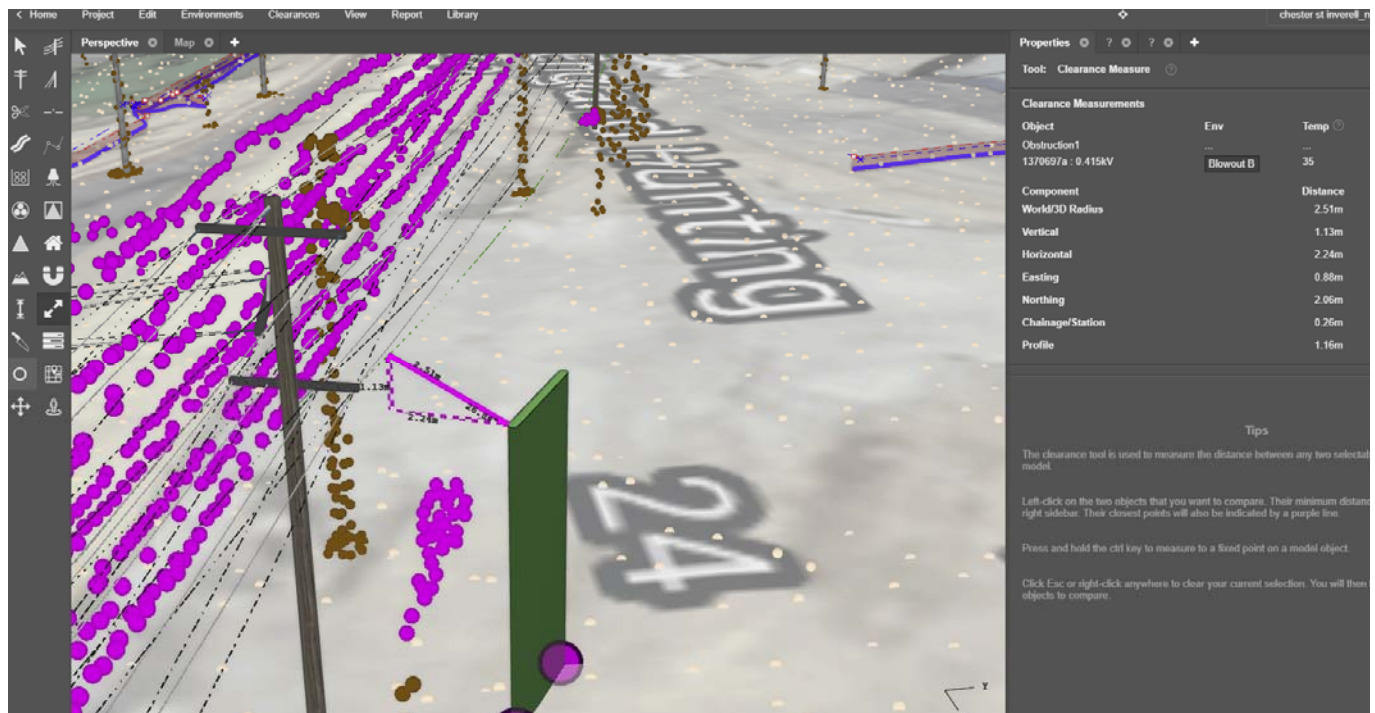
11KV Profile to 7m Non-Normally Climbable Sign



LV Profile to closest building wall



LV Profile to 7m Non normally climbable sign



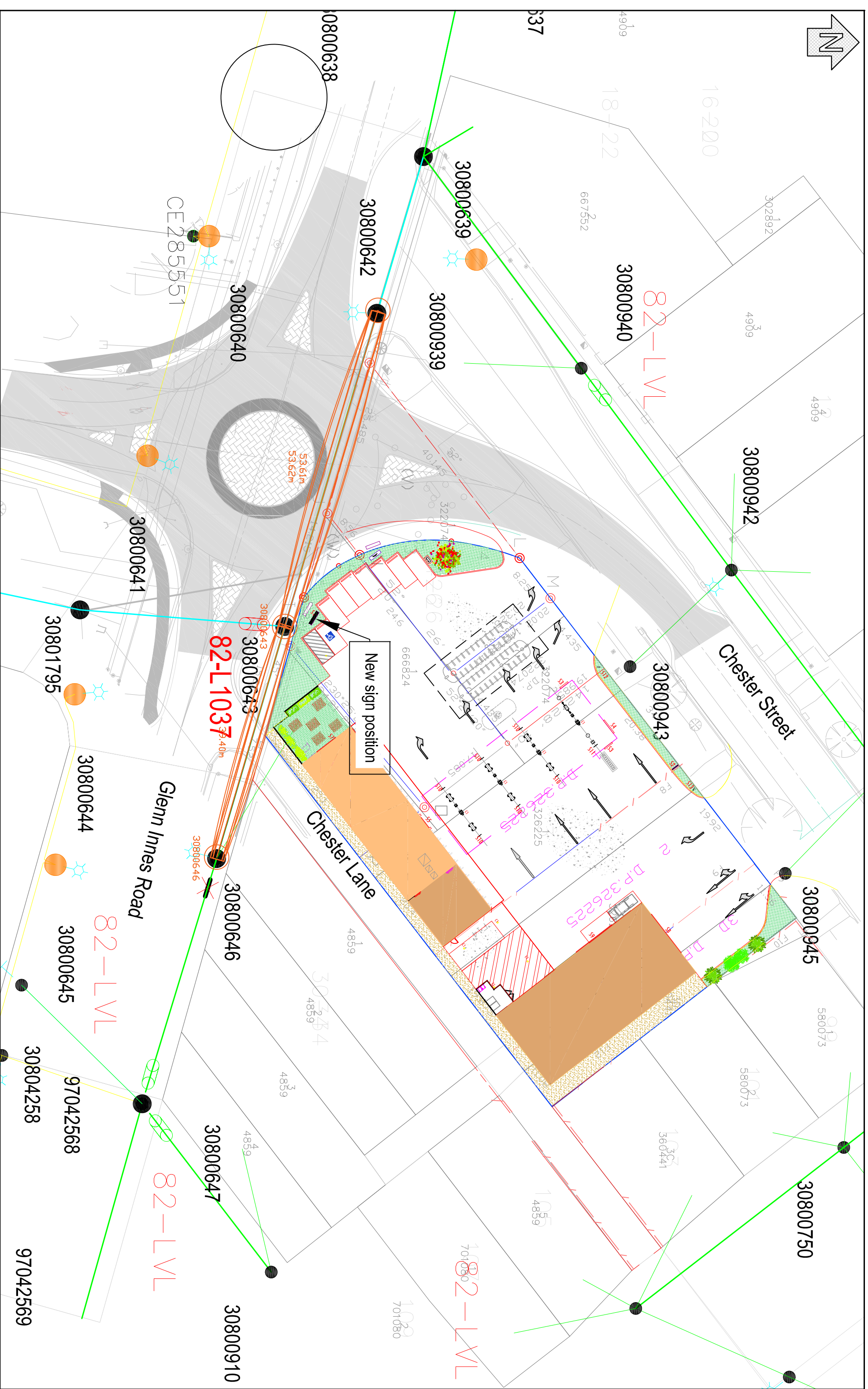
Conclusion

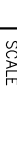
The closest new building of the development is the 5.0m convenience shop adjacent to Chester Lane and the 7m sign which are not normally accessible. The two structures will not be impacted by the existing 11KV & LV conductors as the proposed building construction will be 7.09m horizontally from the closest 11KV blowout point 6.86m from the LV conductor blowout point. The proposed new position of the 7m sign is shown to be 2.24m horizontally from the closest 11KV blowout point 2.24m from the LV conductor blowout point.

The attached plan shows the blowout clearance lines for the existing conductors in relation to the proposed construction. The proposed 7m high sign/price board will not be normally climbable by the public.

Therefore, the proposed development does meet the statutory clearances required. The 11KV and LV conductors are clear from the building meeting the requirements.

Regards
Peter Ryan – 0497414478
ECL Power Services



ISCC20 Plan				PROJECT COST No		XXX				
24-26 Glenn Innes Road, Inverell				SCALE		NTS	DRAWING NAME/No.		REVISION	
				DRAWN BY		PR				
				DATE		28.2.23				
				CHECKED BY		PR				
				FEEDER No		xxxxxxx	SHEET No.		A	
				SHEM REF		xxxxxxx	SHEET SIZE		A3	
				SURVEYED BY		NDC	1		1	