



## 132KV FDR 9L3 OVERHEAD MAINS CONSTRUCTION - NEPEAN TS TO ORAN PARK ZS



Image: Installing foundation liners up to 2m diameter and 6m deep

### Contract Type

Subcontract Agreement with  
GC21 Provisions

### Client

Endeavour Energy

### Value

\$1.55M (excludes poles &  
conductors free issued by  
Endeavour Energy)

### Duration

November 2014 to March 2016

### Location

Northern Road and Camden  
Valley Way

## *Installation of 66-off heavy duty 132kV concrete poles in high water table ground conditions*

### Nature and scope of works

- Install 66-off Concrete 2 & 3 Piece Poles
- Install 6-off Timber Poles
- Install 4-off ground stays
- Install 20,000m-off 61/3.25 AAC Conductor (Uranus)
- Install 7,000m-off 48 Core 18.1mm OPGW
- Install 1-off Air Break Switch (ABS)
- Install 1-off Load Break Switch (LBS)
- OPGW Splicing and Testing
- Earthing of all poles
- Transfer of existing 11kV and LV mains to new poles
- Extend the existing underground 11 kV cable from existing Pole 15 to new Pole 51 by cutting away the existing UGOH, forming a straight-through joint and forming a new UGOH on Pole 51.
- Removal of three poles 35 (A594), 36 (A595) and 37 (A596) and removal of overhead mains from pole 33 (A515) to pole 38 (A597) (5 bays, approximately 1150m) of 33kV Feeder 301 (formerly to North Warragamba ZS) and installation of two ground stays.
- Transfer the existing streetlight luminaires and brackets to new poles;
- Dispose of all redundant assets

### Referee

Endeavour Energy  
Mr. Paul Blackford  
Senior Project Manager