

Outline Construction Methodology



Greenhills Renewable Energy Park 220 kV Grid Connection



Date:
Report Ref:



Revision:	Author:	Checked:	Date:	Notes:



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1.0 Introduction

Table 1 - Summary of Preliminary Grid Connection 220 kV Design Route	
Section	Description (all lengths are approximate and to be confirmed at detailed design stage)
Section 1 Loop-in	
Section 2 Substation	
OHL	

Table 1: Summary of works

2.0 Preliminary Site Investigations

Equipment:

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-
-
-
-

3.0 Loop-In Masts

3.1 Existing 220 kV OHL

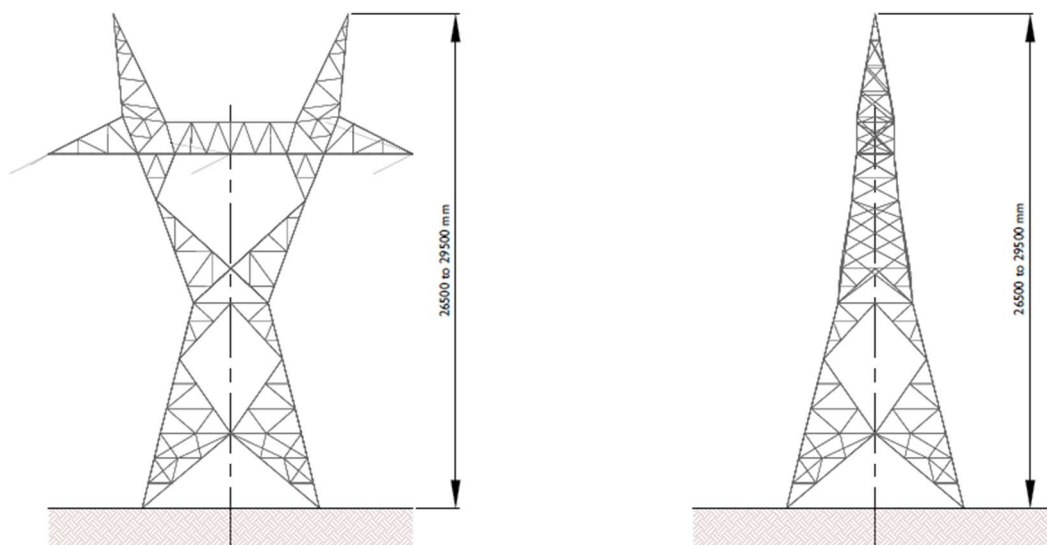


Figure 1: 220 kV Type 269E Single Circuit Tower

3.2 Steel Mast Structures

Equipment:	Materials:
• • • • • • • • • •	• • • • • • • • • •

Table 2: Equipment and Materials for Steel Mast Construction



Figure 2: Stepped Back Excavation

4.0 Proposed Substation Build

5.0 Substation Construction

<u>Equipment</u>	<u>Materials:</u>
• • • • • • • • •	• • • • • • • • • •



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-
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Figure 3: Typical Electrical Infrastructure



Figure 4: Typical Transformer Connection

5.1 Gantry Structures

Equipment:	Materials:
• • • • • • • • • •	• • • • • • • • • •

Table 3: Gantry Construction Requirements





Figure 5 Stepped Back Excavation for Gantry Foundations

6.0 Access Routes to Work Area, Crane Pads and Temporary Laydowns



Figure 6: Crushed Rock Roadway & Crushed Rock Roadway Build-up with Geotextile



Figure 7: Crane pad and laydown areas

7.0 Reinstatement of Private Land

8.0 Construction Hours

