



Greenhills Renewable Energy Park 33kV Interconnector



Date:
Report Ref:



Revision:	Author:	Checked:	Date:	Notes:



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1.0 Introduction



Table 1: Summary of Preliminary Interconnector 33kV Design where running in Public Road to IPP Substation

Section	Description (all lengths are approximate and to be confirmed at detailed design stage)
Section 1 Single Circuit from SW Parcel along L-3808 to the start of L-7829	
Section 2 Single Circuit from SE Parcel along L-3808 to the start of L-7829	
Section 3 Double circuit along the field to the L-7829	
Section 4 Double Circuit along the L-7829 to the solar farm	
Solar Farm Lands to IPP Switchgear room	
Total	

2.0 Preliminary Site Investigations

Equipment

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3.0 33kV Underground Cable Construction Methodology

3.1 Trenching Methodology

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Figure 1: Typical Underground Single Duct Installation

3.2 Ducting Installation Methodology

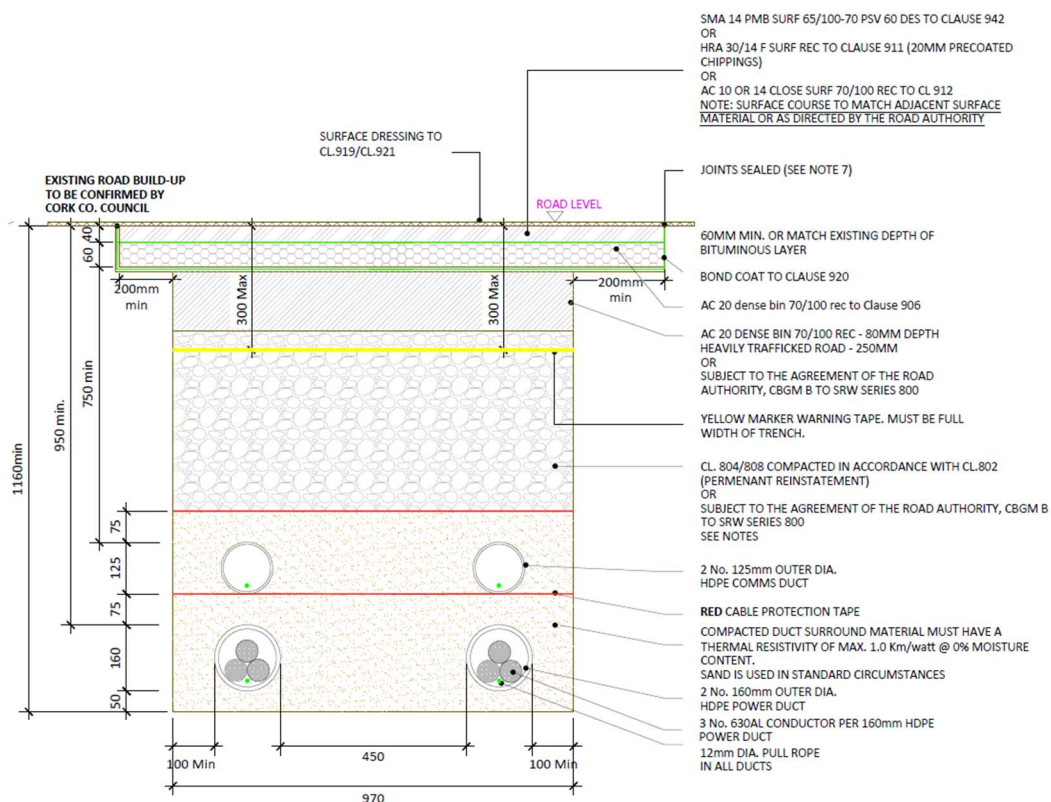


Figure 2: Typical 33 kV Double Circuit - Trench Design

Equipment:

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Materials:

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3.2.1 In Private Tracks

3.3 Surface Cable Markers & Marker posts

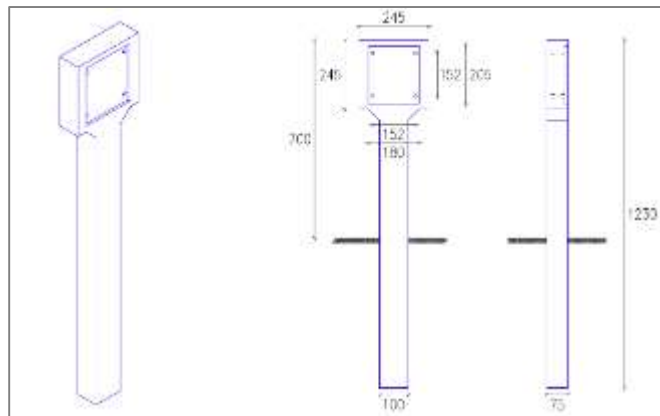


Figure 3: Typical Marker Posts Example

3.4 Managing Excess Material from Trench

3.5 Storage of Plant and Machinery

3.6 Joint Slab and Associated Chambers

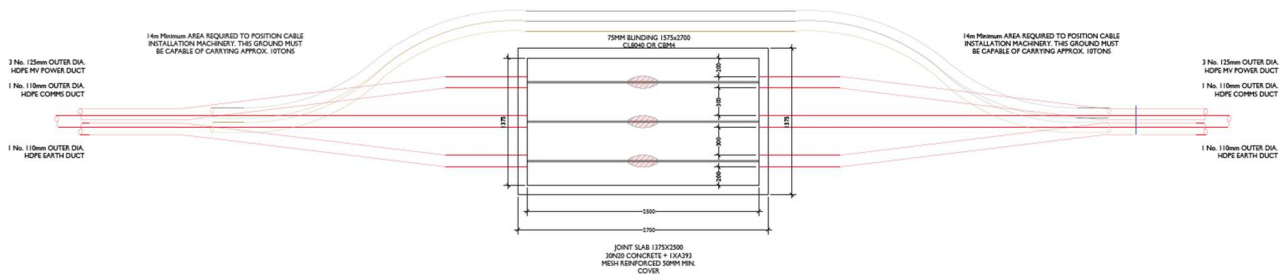


Figure 4: 33kV Joint Slab Plan Layout

3.7 Joint Slab Construction and Cable Installation



Figure 5: HV cable pulling procedure (Typical drum set-up)



Figure 6: Cable Jointing Container

Equipment:

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Materials:

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4.0 Access Routes to Work Area





Figure 7: Temporary Aluminium Panel Tracks

5.0 Best Practice Design and Construction & Environmental Management Methodology

- *Guidelines on Protection of Fisheries during Construction Works in and Adjacent to Waters*, Dublin,
- *National Roads Authority (2008) Guidelines for the Crossing of Watercourses during the Construction of National Road Schemes*
- *Control of water pollution from linear construction projects.*
- *Control of water pollution from linear construction projects*
-
- *Control of water pollution from construction sites. Guidance for consultants and contractors*
- *Best Practice Guide (BPGCS005) Oil storage guidelines;*
- *Environmental good practice on site pocketbook*
- *Environmental Good Practice on Site (fourth edition) (C741) 2015*

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6.0 Traffic Management

7.0 Reinstatement of Private Land

8.0 Implementation of Environmental Protection Measures

9.0 Invasive Species Best Practice Measures

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Fallopia japonica

Impatiens glandulifera

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10.0 Waste Management

11.0 Programme

Table 3: Estimated Construction Duration (Activities Run Concurrently)	
Development Element	Estimated Construction Duration
<u>Total</u>	