



File Note

Project: 22_131 : Echelon Dub 30 Grid Connection **File No:** 22_131MEMO-22_131-001

Subject: Section 146b Design Amendments Summary **Date:** 05/02/2026

1. Proposed Alterations

The proposed alterations primarily comprise modifications to the permitted alignment of two 110 kV underground transmission lines, Circuit A and Circuit B, between the proposed drop-down masts, located northwest of the existing L6187 road, and the permitted 110 kV GIS Substation (permitted under ABP-315200-22), located north of the existing Kish Business Park, Arklow, Co. Wicklow.

The proposed Circuit A follows the permitted alignment from the proposed drop-down masts at Chainage 0+000, traversing along the existing L6187 road, crossing under the M11 Motorway at Junction 21, and continuing northwest of the existing R772 road until Chainage 2+000. From this point, the alignment of Circuit A is amended to traverse agricultural lands adjacent to the R772 until Chainage 2+650, where it rejoins the permitted route. Circuit A then crosses under the existing IÉ railway infrastructure via HDD and proceeds to the proposed GIS Substation.

The proposed Circuit B alterations involve changes to the permitted alignment between the proposed drop-down masts at Chainage 0+000 and Chainage 2+450, where the route rejoins the permitted alignment. Circuit B is realigned to traverse the existing L6187 road and run in parallel to Circuit A, crossing under the M11 Motorway at Junction 21, and continuing northwest of the existing R772 road until Chainage 1+800. From this point, Circuit B traverses agricultural lands adjacent to the R772 until it rejoins the permitted alignment at Chainage 2+450. Circuit B then crosses under the existing IÉ railway infrastructure via HDD and proceeds to the proposed GIS Substation.

In addition to these alterations, the location of the permitted drop-down masts has been adjusted slightly to facilitate the realignment of the proposed Circuit B.

The proposed amendments are intended to minimise the land take required for the circuits and remove the HDD crossing under the existing M11 Motorway. While these changes result in a slight increase in the overall length of Circuits A and B, they reduce impacts on adjacent private lands and avoid works on the recently upgraded R772 road as requested by Wicklow County Council.

Table 1 below summarises the proposed alterations, referencing both the permitted and proposed layouts.

Description	Permitted	Proposed
Circuit A length	2,888m	2,872m
Circuit B length	2,164m	3,074m
IE HDD Circuit A Crossing length	90m	101m
IE HDD Circuit B Crossing length	90m	101m
M11 HDD Circuit B Crossing length	137.5m	No longer required.
Joint Bays Circuit A	5un.	5un.
Joint Bays Circuit B	4un.	5un.