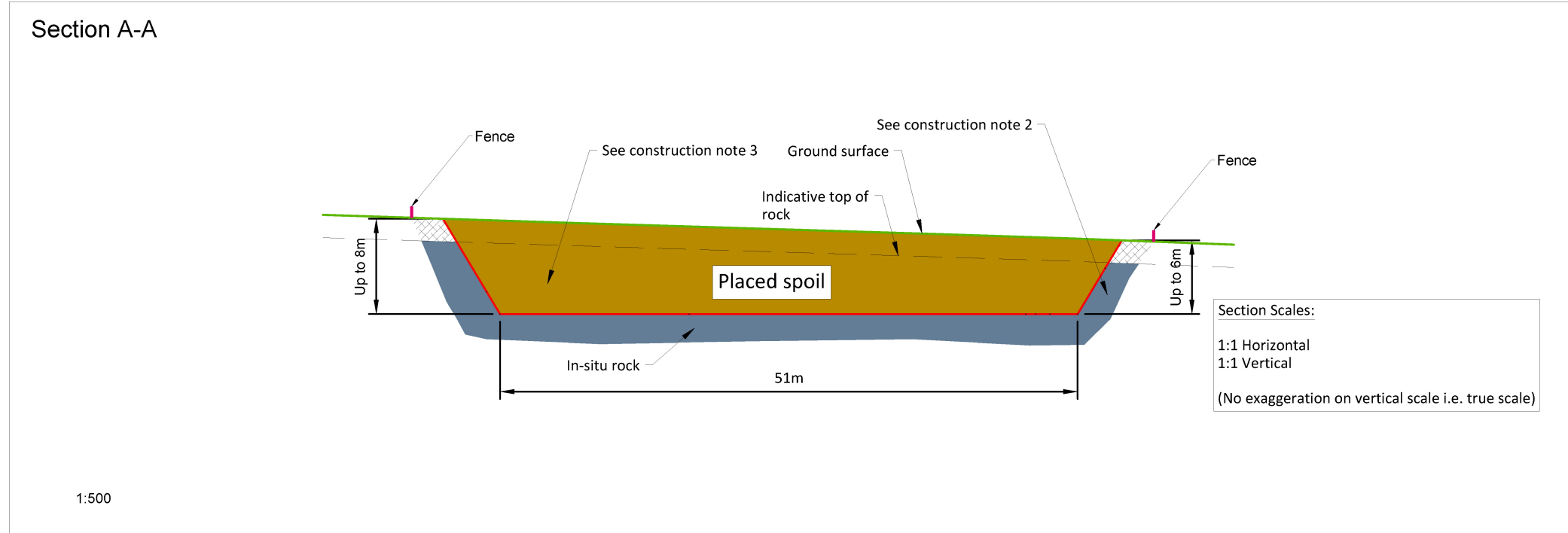




- Construction Notes Borrow pit**
- (1) It is proposed to construct the borrow pit so that the base of the borrow pit is below the level of the adjacent section of access road. Depending on the type and condition of rock present in the borrow pit it may be possible to excavate the rock from the borrow pit whilst leaving in place upstands/segments of intact rock which will help to retain the placed peat & spoil. The upstands/segments of intact rock will essentially act as engineered rock buttresses within the borrow pit.
 - (2) Slopes within the excavated rock formed around the perimeter of the borrow pit should be formed at stable inclinations to suit local in-situ rock conditions.
 - (3) Infilling of the peat & spoil should commence at the back edge of the borrow pit and progress towards the borrow pit entrance/rock buttress. Excavation and infilling of the borrow pit will need to be sequenced and programmed. Leaving in place upstands/segments of intact rock which will help to retain the placed peat & spoil and will allow the borrow pit to be developed and infilled in cells.
 - (4) The contractor excavating the rock will be required to develop the borrow pit in a way which will allow the excavated peat & spoil to be reinstated safely.
 - (5) A rock buttress is required at the downslope edge of the borrow pit to safely retain the infilled peat and spoil. The height of the rock buttresses constructed should be greater than the height of the infilled peat & spoil to prevent any surface peat & spoil run-off. A buttress up to 7m (approx.) in height is likely to be required.
 - (6) The rock buttress will be founded on competent strata. The founding stratum for the rock buttress should be inspected and approved by a competent person.
 - (7) In order to prevent water retention occurring behind the buttresses, the buttresses should be constructed of coarse boulder fill with a high permeability.
 - (8) Where possible, the surface of the placed peat & spoil should be shaped to allow efficient run-off of surface water from the placed arising's.
 - (9) Control of groundwater within the borrow pit may be required and measures will be determined as part of the ground investigation programme.
 - (10) All the above-mentioned general guidelines and requirements should be confirmed by the designer prior to construction.
 - (11) Further guidelines on the construction of the borrow pit is included within Section 7.4 of the Peat & Spoil Management Plan



DRAWING TITLE: Borrow Pit 1 Layout & Section	
PROJECT TITLE: Lyrenacarriga Wind Farm, Co. Cork & Co. Waterford	
DRAWING BY: POR	CHECKED BY: IH
PROJECT No.: 170749	DRAWING No.: 170749 - 31
SCALE: As Shown @ A3	DATE: 05.01.2021
OS SHEET No.: 6108, 6109, 6110, 6111, 6112, 6154, 6155, 6156, 6157, 6158, 6201, 6202, 6203, 6204, 6205, 6249, 6250, 6251, 6252, 6253	

FEHILY TIMONEY Cork | Dublin | Carlow
www.fehilytimoney.ie