

# Knocklofty Flood Relief Scheme

The development of the emerging option was informed by a Constraints Study, Public Consultation, stakeholders, multi-criteria assessment, an environmental appraisal (incl. climate change implications).

The preferred option for Knocklofty includes the construction of a flood defence embankment which will act in combination with proposed stormwater drainage, pumping systems and culverting drains (See Board 5) to provide protection against a 1% Annual Exceedance Probability (AEP) event (a 1 in 100-year flood event). The preferred option was designed to protect Knocklofty from anticipated flood levels calculated from hydraulic model and climate change runs.

The earthen embankment is 538m in total length, 13m maximum width with a maximum height of circa 2.5m. A new vehicular access road will be constructed, respecting and maintaining the exiting field boundaries. Minor grading of the land will be required to provide safe access. Cross-sections highlighted on the drawing are displayed on Board 4.

The source of material imported for the construction of the earthen embankments will be carefully considered, with appropriate due diligence undertaken to ensure that the spread of invasive species and/or contamination is not being facilitated.

LEGEND:

EXISTING GROUND LEVEL	
EXISTING OVERHEAD ESB	
EXISTING SPRING OUTFALL	
EXISTING WALL UPGRADED	
PROPOSED STONE CLAD CONCRETE DEFENCE WALL	
DESIGN FLOOD LEVEL	
PROPOSED FLOOD DEFENCE WALL	
PROPOSED CONCRETE RETAINING WALL	
NEW FLOOD DEFENCE EMBANKMENT	
NEW VEHICLE ACCESS OVER FLOOD DEFENCES	
PROPOSED INFILL	
PROPOSED STORM WATER DRAINAGE	
PROPOSED CULVERT & HEADWALLS	
PROPOSED FRENCH DRAIN	
PROPOSED PUMP STATION	
PROPOSED MANHOLE	
EXISTING TREES	

