

Deansgrange River Flood Alleviation Scheme

Contract Brief

Following flooding of the Deansgrange River at Clonkeen Park, Deansgrange, Dun Laoghaire, Dublin JBA were commissioned by Dun Laoghaire Rathdown County Council to;

- Carry out a detailed flooding history review.
- Provide a detail flood study of the Deansgrange River.
- Undertake a full hydraulic analysis of the Deansgrange River through Clonkeen Park.
- Produce a range of annual probability flood outlines.
- Develop and detail flood alleviation options.
- Oversee the project through procurement and construction stage.

Objectives

The Deansgrange catchment is located near the southern edge of Dublin, within Dun Laoghaire Rathdown County Council jurisdiction. Virtually the whole of the catchment is urbanised with primarily residential development and also with some commercial areas.

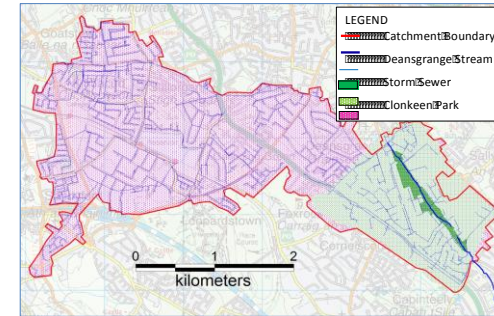
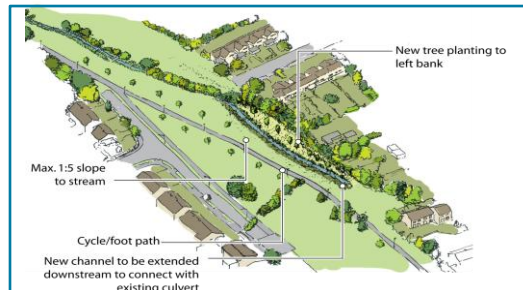
Flooding of the Deansgrange River has been recorded at Clonkeen Park on a number of occasions.

The primary objective of this flood risk assessment and flood alleviation scheme is to increase the level of protection for the local residents at Little Meadow and Cabinteely Court north and south of Clonkeen Park.

Services provided

A detailed hydraulic model of the Deansgrange River through Clonkeen Park was developed by JBA providing a representation of the flood characteristics at Little Meadow/ Cabinteely Court for a range of storm events.

JBA then prepared and presented a range of flood alleviation options to Dun Laoghaire Rathdown County Council for consideration.



Outcomes

The final scheme comprises of the realignment of the original Deansgrange River channel towards the centre of the park and reconstruction of a culvert inlet, to improve its conveyance capacity, a new section of culvert and the provision of a flood protection embankment, to provide protection to adjacent properties.

Construction is due for completion in 2014.

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