# **ENVIRONMENTAL IMPACT ASSESSMENT:**

The Environmental Impact Statement presents the results of environmental assessments which have been completed in relation to the proposed development. The assessments have identified significant positive impacts in terms of flood risk and public health and safety. A proposed extension to an existing plaza in Blackpool is anticipated to enhance the value of the townscape.

Negative impacts have generally been identified as temporary and associated with the 'construction phase' of the project. These would include impacts on traffic, local economic activity, disturbance from construction operations through increased noise and dust, and localised impacts on water quality, aquatic amenities and the fishery. Funding will be made available for fishery enhancement either upstream or in a nearby catchment.

# YOUR OPPORTUNITY TO TAKE PART

The Office of Public Works wishes to consider all viewpoints in relation to the Preferred Option being exhibited. The EIS and Drainage Scheme drawings will be on exhibition for four weeks in Blackpool Public Library and are available to download from www.lowerleefrs.ie or in CD format from the Office of Public Works, Flood Projects Management Services, 52 St Stephen's Green Dublin 2.

Representatives of the Office of Public Work's Design Team and Environmental Consultants will be in attendance at Blackpool Community Centre, 90, Great William O'Brien St., Blackpool, Cork on the below dates and times to answer any questions that interested persons may have regarding the Scheme's proposals:

Tuesday 24th November, 2015; 2pm – 8pm Thursday, 3rd December, 2015; 2pm – 8pm Thursday, 10th December, 2015; 2pm – 8pm Monday, 21st December, 2015; 2pm – 8pm

# **FURTHER INFORMATION**

Comments in relation to this project can be addressed to:

Mr. John Kelly, Office of Public Works, Flood Projects Management Services, 52 St. Stephens Green, Dublin 2. Email: john.kelly@opw.ie









# RIVER BRIDE (BLACKPOOL) CERTIFIED DRAINAGE SCHEME



RYAN HANLEY

**PUBLIC EXHIBITION** 

NOVEMBER 2015



This brochure forms part of the formal exhibition of the proposed River Bride (Blackpool) Certified Drainage Scheme, taking place in Blackpool Public Library, Blackpool Shopping centre, Blackpool, Cork, in November/December 2015.

Since the last public information day, the Environmental Impact Assessment has been completed and an Environmental Impact Statement has been prepared, in addition to further hydrological and hydraulic modelling which has informed the design of the preferred scheme option.

Surveys and other work that have been completed in advance of the exhibition include:

Fish Stock and Aquatic Habitat Assessment,
Otter and Bird Surveys,
Property Threshold Surveys,
Defence Asset Condition Surveys,
Hydrology Report,
Hydraulics Report,
Site Investigations and Optioneering,
Flood Risk Management Options,
Flood Risk Assessment,
Cost Benefit Analysis,
Noise Surveys & Assessments,
Landscape Assessments

|  | Interference | Channel     | Proposed Works | General Description of New Works  |
|--|--------------|-------------|----------------|---|
| For Continuation C06_B07 See Drg No. RB_207  | Reference    |             | Chainage (m)   | Action of seem bright of seem should  |
| C06_P07  Baskettuat  Brown 14  C06_B08   | C06_P07      | 48          | 1              | Proposed local surface water pumping station, collector drain, manhole and rising main to operate during a flood event at CO6_48. All outlets to be fitted with non-return valves.  |
| Blackpool 57<br>Church Course  | C06_B07      |             | 257 to 294     | Replace existing culvert with proposed reinforced concrete culvert of internal dimension 5.5m wide x 2.1m high. All drainage outfalls to be fitted with non-return valves.  |
| C06,000 201 1/3  | C06_B08      | *           | 240 to 257     | Replace existing open channel with a proposed reinforced concrete culvert at Blackpool Church. Proposed culvert to be of internal dimension 5.5m wide and 2.1m high. All drainage outfalls to be fitted with non-return valves.                                       |
| watercourse Con 1150 Conteran's Q  | C01_B01      | *           | 225 to 240     | Replace existing culvert with a proposed tapered reinforced concrete culvert section from 5.5m and 2.1m high to 4.8m wide and 1.6m high. New culvert to be tied into existing culvert on Watercourse Road. All drainage outfalls to be fitted with non-return valves. |
| CO1_R01 200  | C01_B02      | -           | 62 to 225      | Existing culvert to be pressurised during a flood event. Repairs to the existing culvert and work to internal joints to be carried out where necessary. All drainage outfalls to be fitted with non-return valves.  |
|  | C01_B03      | -           | 0 to 62        | Reconstruction of existing culvert section to optimise flow distribution between the Kiln culvert (CO1) and the Brewery Branch culvert (CO2). All drainage outfalls to be fitted with non-return valves.  |
| C03_P01   0000000000000000000000000000000000   | Linn C02_M01 | 740         | *              | Proposed flow control feature to be constructed on the confluence of the Kiln and the Brewery Branch at CO2_740 to limit flow in the Brewery Branch to existing capacity.   |
| Berwick Lane   | C03_P01      | 143         |                | Existing CSO to be diverted into the Back Watercourse culvert (CO3) during a flood event.   |
|  | C03_B01      |             | 0 to 50        | Existing culvert to be pressurised during a flood event. Repairs to the existing culvert and work to internal joints to be carried out where necessary. All drainage outfalls to be fitted with non-return valves.  |
| Broad Lane C01_B02 C03-G01   | C06_G01      | 0 to 2623   |                | Channel to be maintained over a distance of 2623m from Blackpool Church (C06_000) to upstream of Rose Cottage (C06_2623).   |
|  | C01_R01      | -           | 2              | Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to the Madden's Buildings junction.   |
| C01_R04 100 C01_R06  | C01_R02      |             | -              | Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Maddens Building's junction.   |
| 8anys  | C01_R03      | -           | -              | Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.   |
| C01_B03  | C01_R04      | -           | •              | Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.   |
| Madden's Buildings Cos 000 Cos | C01_R05      | *           | 8              | Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.   |
| Madden's Buildings C03_000 C04_000 C04_0000 C04_000 C04_000 C04_000 C04_000 C04_000 C04_000 C04_000 C04_000 C04_000 C0 | S C01_R06    |             |                | Proposed localised regrading of ground levels to divert surface water overland flow during a flood event southwards along Watercourse Road to the existing low point adjacent to Madden's Buildings junction.   |
| C02_M01  | C02_C01      | 691 to 699  | -              | Local masonry repairs to be carried out within the existing culvert at C02_695. Access for these works to be gained from the existing manhole at C02_740.   |
| C02_C02 C22 609 8  | C02_C02      | 625 to 691  | 2              | Local masonry repairs to be carried out within the existing culvert at CO2_639 and CO2_655. Access for these works to be gained from the existing manhole at CO2_680.   |
| C02-Kiln C02-680   | C03_G01      | 0 to 542    | *              | Channel to be maintained over a distance of 542m from Maddens Buildings (C3_000) to the existing culvert inlet at C03_542.  |
| (Brewery Branch)   | C01_G01      | 227 to 1173 | -              | Channel to be maintained over a distance of 946m from the confluence of the Kiln and the Kiln Brewery Branch (C01_227) to Blackpool Church (C01_1173).  |
| For Continuation Station 63g See Drg No. RB_3  | C02_G01      | 0 to 740    | -              | Channel to be maintained over a distance of 740m from the confluence of the Kiln (Brewery Branch) and the Kiln (CO2_000) to Madden's Buildings (CO2_740).   |
|  |              |             |                |   |

Sample section of proposed scheme works. All scheme drawings & documents available in exhibition display and online at www.lowerleefrs.ie

### OUTLINE OF PROPOSED WORKS - COMBINATION OF IMPROVED CONVEYANCE AND DEFENCES

- Site Investigation
- Construction of new culverts
- Replacement of existing bridges/culverts
- Construction of new flood walls/earthen embankments
- Constructing bridge parapets
- Local Channel widening of the River Bride (referred to as a 'Winter Channel' on scheme drawings).
- Construction of a sedimentation trap on the left bank of the River Bride
- Removal of approx. 100m existing culvert (River Bride) and restoration of open channel at this location

- Construction of a new trash screen and roughing screens, and removal of existing trash screens
- Modification to existing adjacent foul and surface water networks (incl. Construction of pumping stations)
- Removal of existing sluice structure in channel of River Bride to the rear of the Dulux factory
- Localised regrading of ground levels, erection of fencing and access gates, to facilitate pedestrian/ vehicular access to and around flood defences, or to redirect overland surface water flow paths
- Filling in an existing open watercourse
- Introduction of a low flow control structure on the entrance to the Brewery culvert on the River Bride and the Spring Lane culverted branch of the River Glen
- Regular maintenance of the river channel and pumping stations

The diagram above shows a sample of the proposed works as part of the proposed River Bride (Blackpool) Certified Drainage Scheme. The preferred option includes a combination of conveyance improvement and flood defences.