



FLUVIAL FLOOD EXTENTS AS PER TOPOGRAPHICAL & PROPOSED LEVELS INFORMATION (OPTION 2)

SCALE @ A0: 1:200
SCALE @ A2: 1:500

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.
- FLUVIAL FLOOD EXTENTS APPROXIMATED TO **+05.40 mOD**. TAKING FLOOD MAPS AS A REFERENCE FROM THE ARTICLE 'THE RIVER TOLKA FLOOD STUDY 10 YEARS ON - A CASE STUDY ON HOW CATCHMENT BASED FLOOD RISK MANAGEMENT WORKS' PUBLISHED ON 2014.
- THE PREVIOUSLY MENTIONED ARTICLE WAS BASED ON A REVIEW OF THE FLOOD MARKING IN SEPTEMBER 2010 BY DCS AND ORY. AND IT WAS CONCLUDED THAT THE 0.1% AEP FLUVIAL COUPLED WITH THE 50% AEP TIDAL EVENT WAS THE MOST APPROPRIATE TO APPLY TO TOLKA RIVER FOR THE DUBLIN CITY AREA. THIS COMBINATION OF FLUVIAL AND TIDAL EVENTS WAS FOUND TO PRODUCE THE HIGHEST ESTUARY LEVELS, MAKING IT THE CRITICAL DESIGN 0.1% AEP EVENT.
- EXISTING TOPOGRAPHICAL INFORMATION RECEIVED 21st FEBRUARY 2020.

FLOOD PLAIN RANGES

DEPTH (m)	RANGE COLOUR
FLOOD ZONE A	
FLOOD ZONE B	
FLOOD ZONE C	

EXISTING FLOOD VOLUME WITHIN THE BOUNDARY LINE	6 306.19 m ³
TOTAL VOLUME DISPLACED	7 128.63 m ³ - 6 306.19 m ³ = 822.44 m ³

- APPROXIMATED FLOOD EXTENT LEVEL (ZONE B) (+05.40 mOD)
- Flood Zone A - where the probability of flooding from rivers and the sea is highest (greater than 1% or 1 in 100 year for river flooding or 0.5% or 1 in 200 for coastal flooding);
- Flood Zone B - where the probability of flooding from rivers and the sea is moderate (between 0.1% or 1 in 100 year and 1% or 1 in 100 year for river flooding and between 0.1% or 1 in 1000 year and 0.5% or 1 in 200 year for coastal flooding); and
- Flood Zone C - where the probability of flooding from rivers and the sea is low (less than 0.1% or 1 in 1000 for both river and coastal flooding).

It is important to note that Flood Zone C covers all areas which are not in Flood Zones A or B.

ISSUE	DATE	DESCRIPTION	DRG	P	SC
PL1	19.07.21	ISSUED FOR PLANNING APP.	MR	MR	MR
P02	18.02.21	ISSUED FOR INFORMATION	MR	MR	MR
P01	20.01.21	ISSUED FOR INFORMATION	MR	MR	MR

PLANNING

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The Institution of Structural Engineers **ACEI**

CLIENT: **CWTC Multi Family ICAV acting on behalf of its sub-fund DBTR DR1 Fund**

PROJECT TITLE	PROJECT No.
Holy Cross College SHD	19.253

MODEL REFERENCE	MODEL No.	SUBTILITY
CLN-BMCE-00-ZZ-DR-C-1060	P01	

DRAWING TITLE: **FLUVIAL FLOOD EXTENTS AS PER TOPOGRAPHICAL & PROPOSED LEVELS INFORMATION (OPTION 2)**

DRAWING No.	DATE
CLN-BMCE-00-ZZ-DR-C-1062	PL1