

Lieberman Sipirtan School Templeogue

Engineering Planning Report

222272-PUNCH-XX-XX-RP-C-0001

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1 Introduction

This report was prepared to accompany a planning application for the proposed reuse of the existing site at the Liberman Spiritan Site located on Templeville Road, Templeogue, Dublin 6W. The site location is shown in Figure A below.

This report deals specifically with the request for additional information from South Dublin County Council (SDCC) in reference to planning permission reference SD22A/0404.

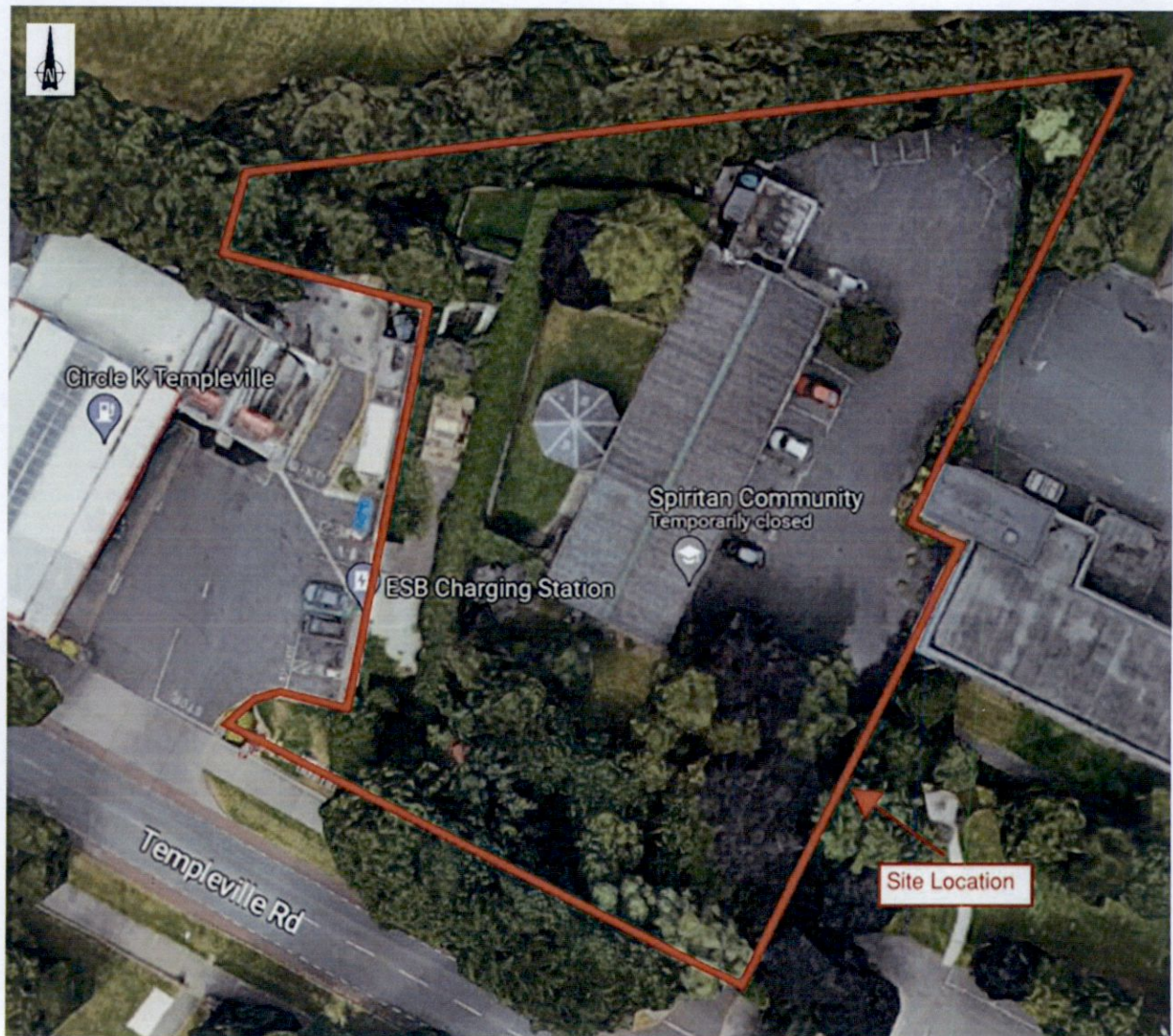


Figure A: Site Location of the Planning Permission (Ref. Google Maps)

1.1 Proposed Works

The proposed works consists of the internal fit out and upgrade to the existing building.

Proposed works will include play areas to the read of the property. Minor layout reconfiguration is proposed to the front of the building but does not result in any increased hard surface areas on site. Proposed works to include all ancillary site development and landscaping works.

The proposed works are outlined in a series of architectural drawings prepared by AFEC ARCHITECTS and engineering drawing prepared by PUNCH Consulting Engineers and supplied as part of the planning submission.

2 Surface Water Drainage

2.1 Existing Surface Water Drainage

The existing surface water network is an arrangement of underground gravity flowing pipes, connecting into the existing main network.

2.2 Proposed SuDS Proposals and Surface Water Drainage

2.2.1 General

The proposed development has been assessed in relation to Sustainable Urban Drainage Systems (SuDS). A variety of SuDS measures may be adopted to comply with SDCC's recommendations.

There are no new permanent hardstanding surfaces proposed with this change of use planning application.

It is proposed that the surface water network from the existing building and external hardstanding surfaces to remain as is.

The existing surface water network is an arrangement of underground gravity flowing pipes, which discharge out of the site to the main public lines.

The new play areas proposed to the rear of the building will be constructed with a permeable finish (e.g. soft play surface), with appropriate layers of stone below which will allow for full attenuation and infiltration into the ground within the site.

There is no proposal to increase discharge from the site to the existing drainage network, with everything controlled and contained on site.

Details of these proposed works are indicated on PUNCH Drawing 222272-PUNCH-XX-XX-DR-C-0150. Refer to Appendix A.

2.2.2 Landscaping

A large proportion of the site will remain as grassed areas. Rainwater will naturally infiltrate and allow for evapotranspiration within the soil build-up of such areas.

3 Foul Water Drainage

3.1 Existing Foul Water Drainage

The existing foul water network is an arrangement of underground gravity flowing pipes, connecting into the existing main network.

3.2 Proposed Foul Water Drainage

The change of use of building does not increase the foul water discharge load on the existing foul water pipe network.

The proposed change of use works will involve connection of toilets and utilities into existing drainage lines. A comparison of the existing to proposed foul drainage from the site is outlined in Table 1.

Source	Unit	Quantity	Flow	DWF	DWF	6 DWF	6DWF +10% Infil.
			(litres/ day/ pers.)	m ³ /day	litres/ sec	litres/ sec	litres/ sec
Existing Facility	Pers.	13	150	1.950	0.0226	0.156	0.172
	Pers.	4	90	0.360	0.0042	0.025	0.028
Existing Facility Total				2.31	0.0268	0.161	0.177
Proposed Facility	Pers.	25	90	2.25	0.0261	0.157	0.173

Table 1: Calculation of Peak Daily Flow

4 Watermain Design

There is no new Irish Water connection requirement. Similar to the foul water flows noted in section 3, the change of use of the building will not increase demand for water on site.

5 Flooding

The proposed development is found to be located within Flood Zone C for fluvial, pluvial and coastal flooding and in accordance with The Planning System & Flood Risk Management Guidelines the proposed change of use of building is deemed appropriate for this flood zone designation.

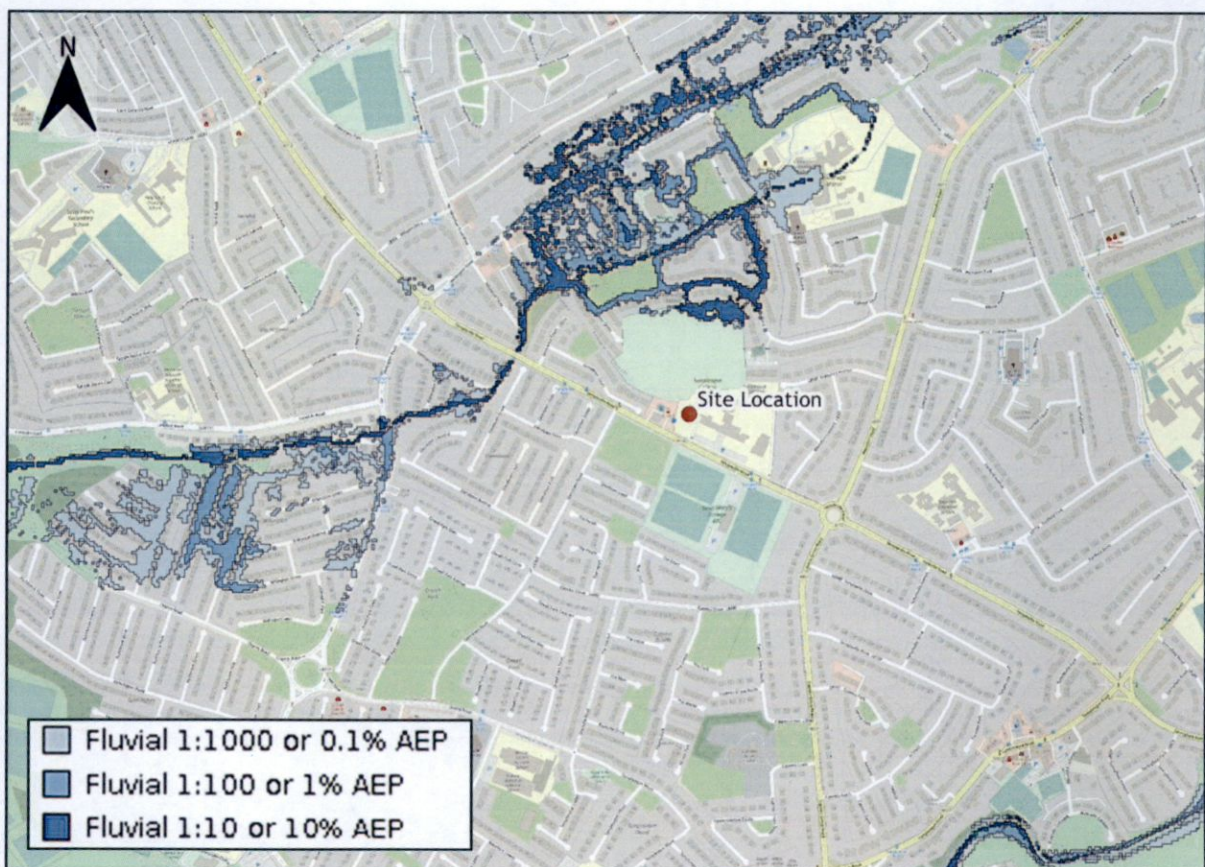
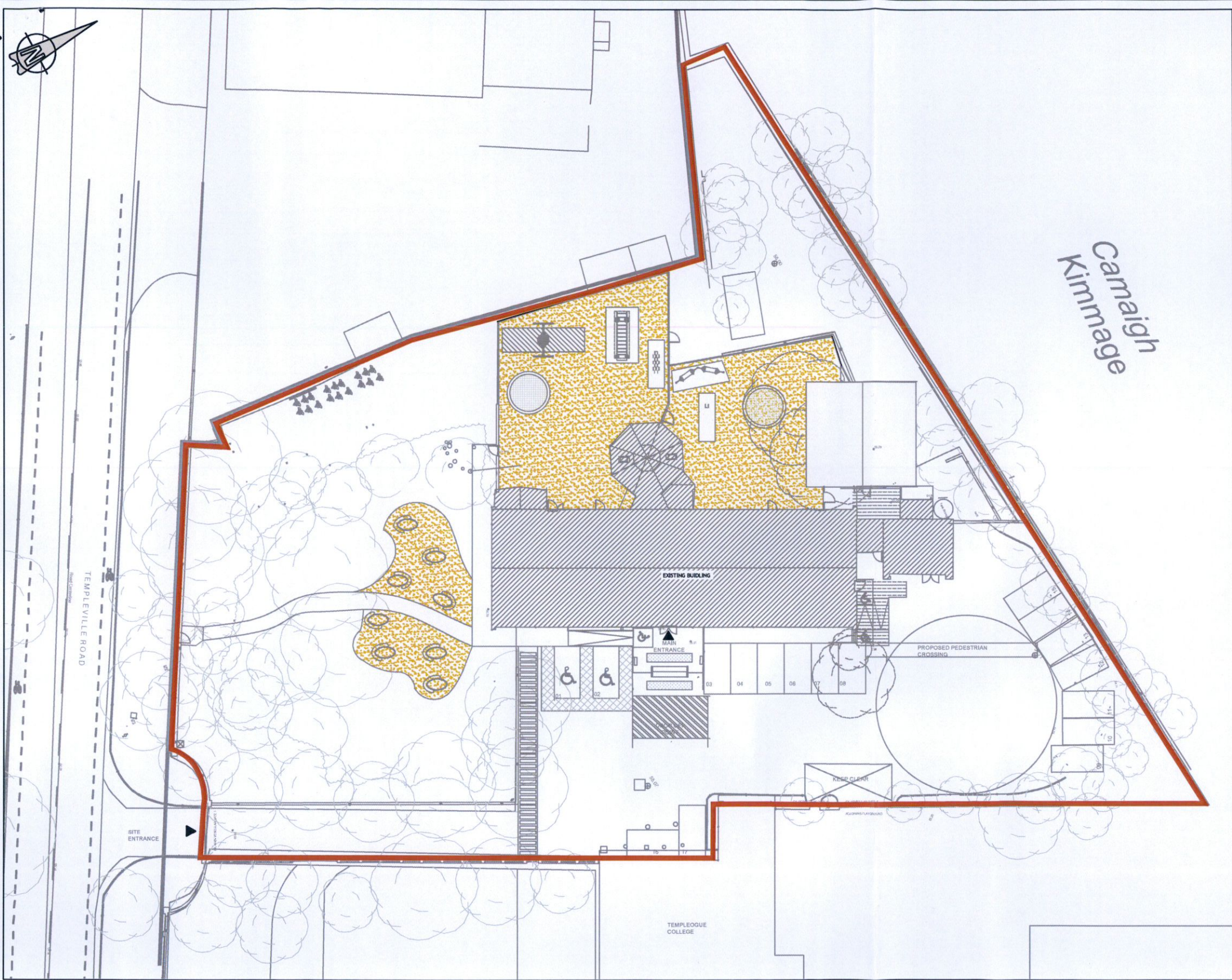




Figure B: Extract from CFRAMS fluvial flood map

Appendix A Proposed Site Plan Drawing

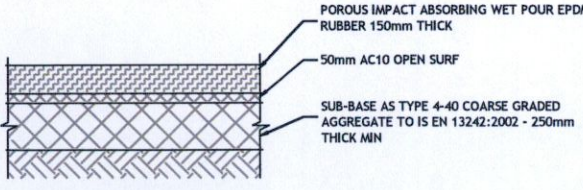


LEGEND

PLAYGROUND SURFACE 

RED LINE BOUNDARY 

**PLAYGROUND SURFACING - EPDM RUBBER
(PLAYGROUND - NO VEHICLE LOADING)**
SCALE 1:20



POROUS IMPACT ABSORBING WET POUR EPDM RUBBER 150mm THICK
 50mm AC10 OPEN SURF
 SUB-BASE AS TYPE 4-40 COARSE GRADED AGGREGATE TO IS EN 13242:2002 - 250mm THICK MIN

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Project: **LIBERMANN SCHOOL, TEMPLEOGUE, DUBLIN 6W. DOES**

Title: **PROPOSED SITE LAYOUT DETAILS**

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