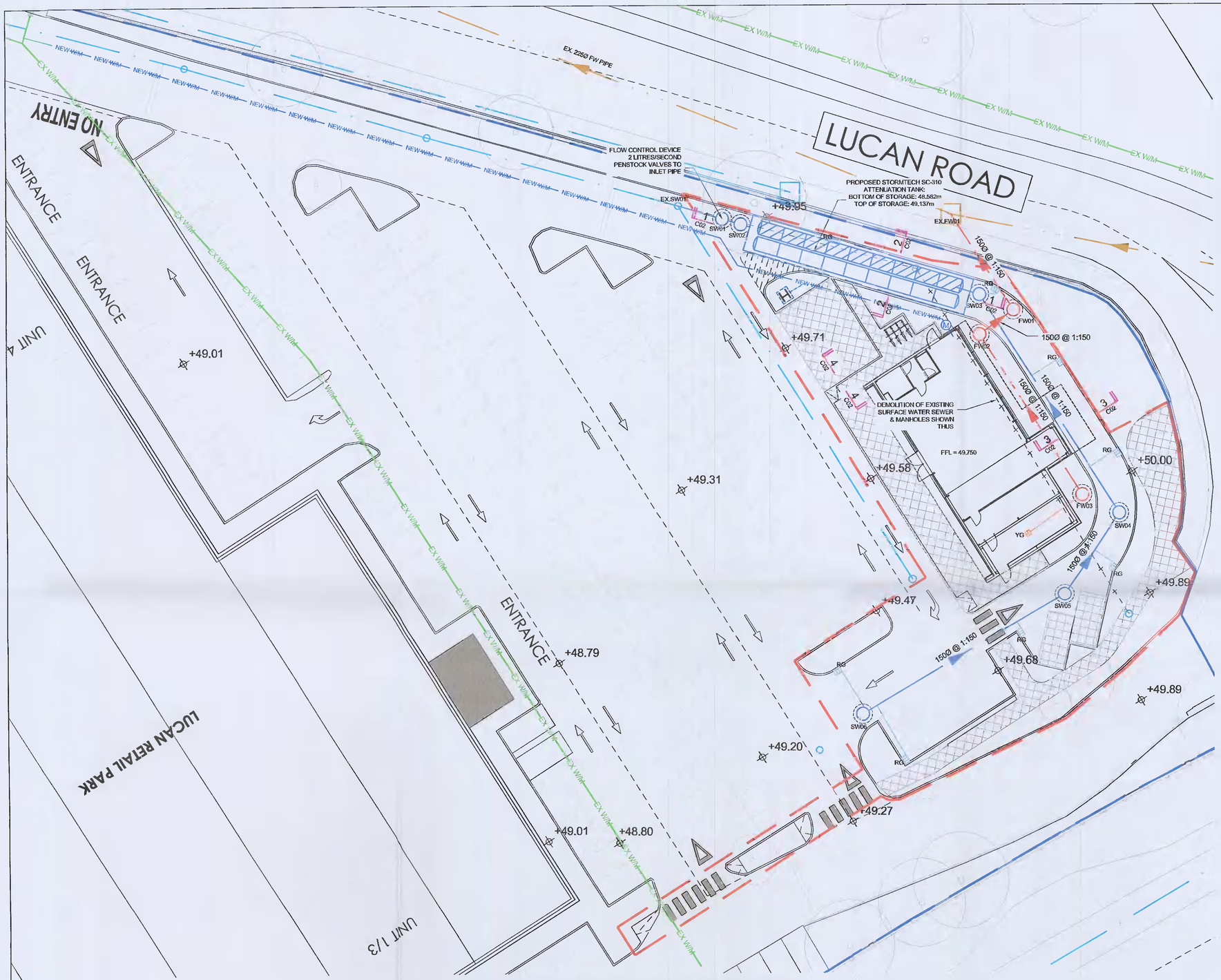

PROPOSED DRAINAGE & WATERMAINS PLAN

SCALE 1:200

SURFACE WATER MANHOLE SCHEDULE

MH REF:	COVER LEVEL	INVERT LEVEL	PIPE Ø	DEPTH TO INVERT	MANHOLE TYPE	MANHOLE COVER/FRAME
EX. SW 01	49.950	48.535	150	1.415		
SW 01	49.890	48.564	150	1.326	TYPE J	CLASS D400/150mm DP
SW 02	49.870	48.576	150	1.294	TYPE J	CLASS D400/150mm DP
SW 03	49.600	48.587	150	1.013	TYPE J	CLASS D400/150mm DP
SW 04	49.600	48.748	150	0.852	TYPE J	CLASS D400/150mm DP
SW 05	49.575	48.809	150	0.766	TYPE J	CLASS D400/150mm DP
SW 06	49.490	48.955	150	0.535	TYPE J	CLASS D400/150mm DP

NOTE: ALL MANHOLE TYPES AS PER GDR CODE OF PRACTICE DRAINAGE

FOUL WATER MANHOLE SCHEDULE

MH REF:	COVER LEVEL	INVERT LEVEL	PIPE Ø	DEPTH TO INVERT	MANHOLE TYPE	MANHOLE COVER/FRAME
EX. FW 01	50.200	48.060	150	2.140		
FW 01	49.600	48.131	150	1.469	STD-WW-10	CLASS D400/150mm DP
FW 02	49.750	48.157	150	1.593	STD-WW-10	CLASS D400/150mm DP
FW 03	49.750	48.275	150	1.475	STD-WW-10	CLASS D400/150mm DP

NOTE: ALL MANHOLE TYPES AS PER IRISH WATER'S WASTEWATER STANDARD DETAILS

SURFACES LEGEND

PERMEABLE PAVING

DRAINAGE LEGEND

NEW FOUL WATER SEWER — FW03
EX. FOUL WATER SEWER — EX. F3
EX. SURFACE WATER SEWER — EX. S3
NEW SURFACE WATER SEWER — SW03
ROAD GULLY — RG
YARD GULLY — YG
DEMOLITION OF DRAINAGE LINE

WATERMAIN LEGEND

PROPOSED WATERMAIN — NEW WM
EXISTING WATERMAIN — EX. WM
PROPOSED HYDRANT — H
PROPOSED BOUNDARY BOX — M

SITE LEGEND

SITE BOUNDARY
OWNERSHIP LINE
DEMOLITION LINE
SPOT LEVELS — +0.00

STORMWATER ATTENUATION:

TOTAL SITE AREA = 1406.5m²

FOR: 100 YEAR RETURN EVENT

QBARrural = 0.292 LITRES/SECOND

MINIMUM FLOW RATE USING PROPRIETARY FLOW CONTROL DEVICE = 2 LITRES/SECOND

20% INCREASE IN ATTENUATION VOLUME FOR CLIMATE CHANGE

MAX ATTENUATE VOLUME REQUIRED = 26.46m³

VOLUME PROVIDED BY ONLINE ATTENUATION STORAGE SYSTEM:

73.1m² x 0.39m³/m² = 28.509m³

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEER'S DETAIL DRAWINGS AND SPECIFICATIONS.

DO NOT SCALE DIMENSIONS, REFER TO ARCHITECTS DRAWINGS FOR ALL SETTING OUT DIMENSIONS. WORK TO FIGURED DIMENSIONS ONLY.

THE ENGINEER IS TO BE AFFORDED SUFFICIENT TIME TO CARRY OUT INSPECTIONS OF THE WORKS IN ACCORDANCE WITH THE PROJECT INSPECTION PLAN AND INSPECTION NOTIFICATION FRAMEWORK.

ALL CONSTRUCTION PRODUCTS TO HAVE RELEVANT CE MARKING WHERE APPLICABLE.

DRAINAGE

ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH IS EN 752: 2008, TGD PART H.

ALL REINSTATEMENT WORKS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.

ALL MANHOLES COVERS AND FRAME ARE TO BE CLASS D400 TO BS EN 124 U.N.O.

SEWER PIPE LINES TO BE SN8 uPVC PIPE UP TO AND INCLUDING 300Ø TO IS EN 1401 2009/2012.

SEWER PIPE LINES EXCEEDING 300Ø TO BE CONCRETE SPIGOT AND SOCKET PIPES WITH RUBBER RING FITTINGS, TO IS EN 1916 (2002), BS 5911 PART 1 (2002-2010) AND IS 6 (2004), STRENGTH CLASS 120 WITH MINIMUM CRUSHING LOADS IN ACCORDANCE WITH TABLE 8 OF BS 5911-1 (2002-2010).

ALL WASTEWATER MANHOLES, CHAMBERS, TRENCHING AND BACKFILLING TO BE IN STRICT ACCORDANCE WITH IRISH WATER STANDARD DETAILS LATEST EDITION.

ALL SURFACE WATER MANHOLES, CHAMBERS, TRENCHING AND BACKFILLING TO BE IN STRICT ACCORDANCE WITH GDSDS AND GDR CODE OF PRACTICE FOR DRAINAGE WORKS V6.0.

ALL VERTICAL STACK CONNECTIONS TO FOUL SEWER CHAMBERS TO INCORPORATE LONG RADIUS BENDS AND MUST JOIN MAIN SEWER LINE AT 45° TO DIRECTION OF FLOW.

WATERMAIN

ALL WATERMAINS AND ANCILLARY COMPONENTS TO BE INSTALLED IN STRICT ACCORDANCE WITH IRISH WATER STANDARD DETAILS AND SPECIFICATIONS.

Rev	Date	Dm	Chk'd	Description
0	23/11/21	SR	AD	Issued for Planning

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Project:	Drive Thru Coffee Unit for New Ireland Assurance Company PLC
Drawing:	Proposed Drainage & Watermains Plan
Model Reference:	21192-LDE-ZZ-ZZ-M2-SC-0003
Drawing Reference:	21192-LDE-ZZ-ZZ-DR-SC-1C01

Project No.	21192
Org. No.	C01
Scale	@A1
Date	Nov '21
Drawn	SR
Rev.	0
Model Rev:	P.01.1
Suitability:	S0