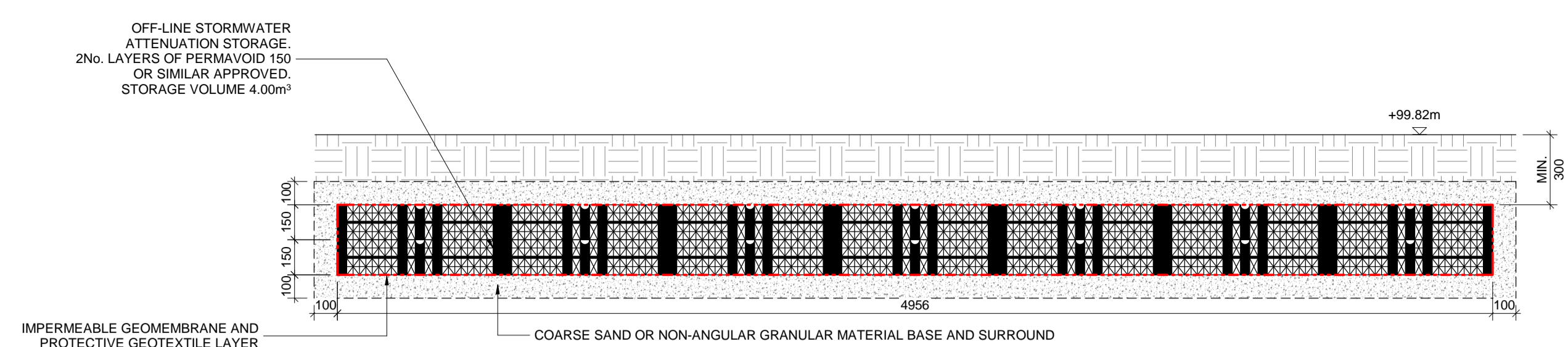


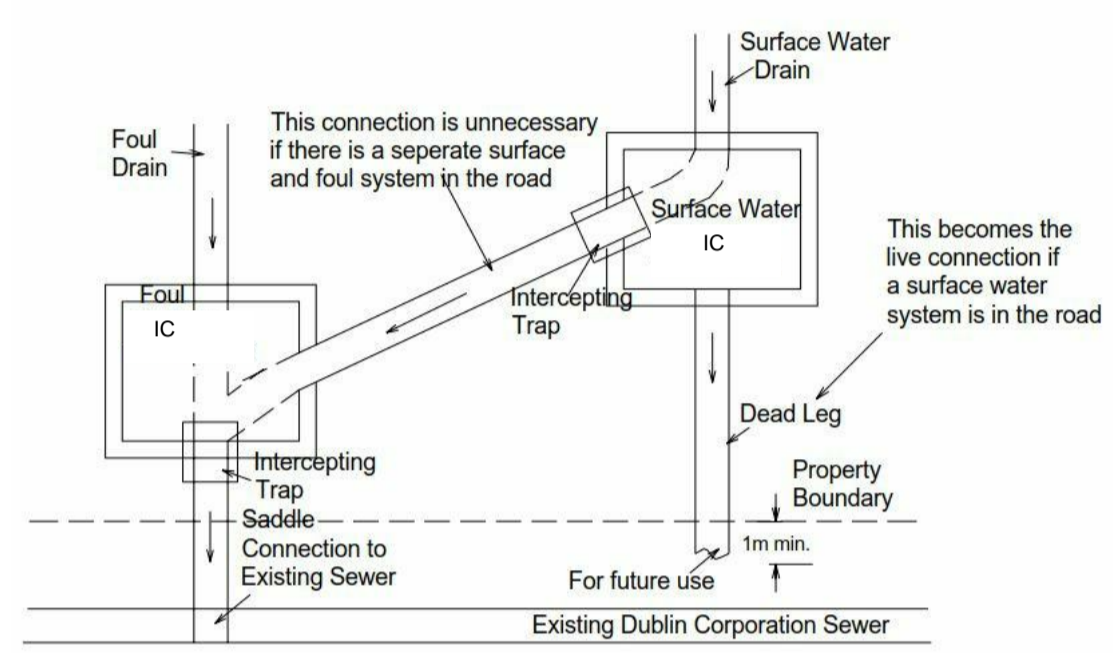
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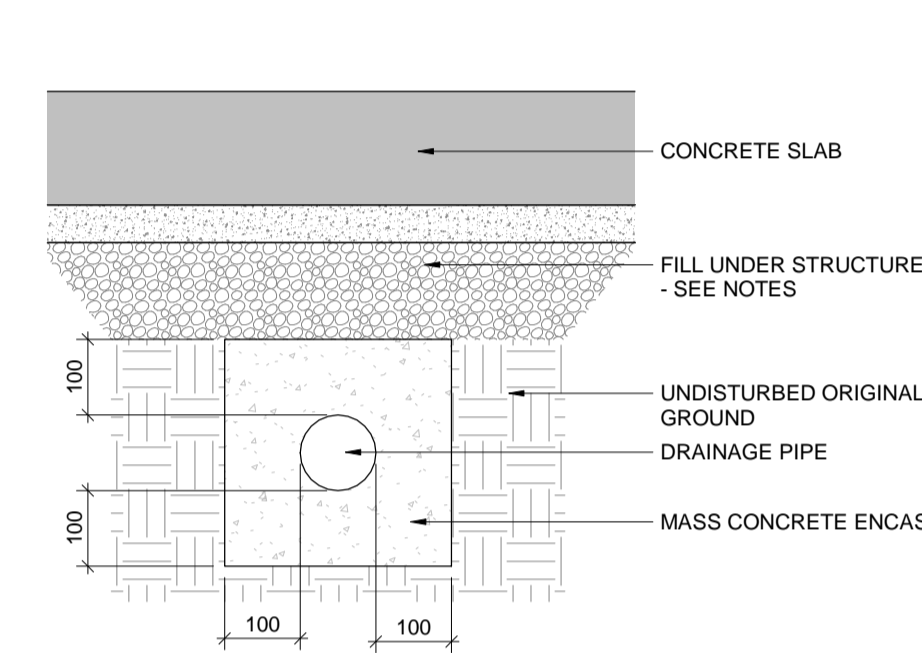
- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
 - USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. ALL DIMENSIONS TO BE CHECKED ON SITE AND CONFIRMED PRIOR TO COMMENCING WORKS. ANY ERROR OR DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER / ARCHITECT.
 - DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S, ARCHITECT'S AND SERVICE ENGINEER'S DRAWINGS AND SPECIFICATIONS.
 - ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANNING GRANT CONDITIONS, CURRENT BUILDING REGULATIONS AND GOOD BUILDING PRACTICE.
 - ALL WASTEWATER DRAINAGE DETAILS AND CONSTRUCTION TO BE IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE (DOCUMENT NO. IW-CDS-5030-01 & IW-DS-0100-03 RESPECTIVELY).
 - ALL WATER INFRASTRUCTURE DETAILS AND CONSTRUCTION TO BE IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS AND CODE OF PRACTICE FOR WATER INFRASTRUCTURE (DOCUMENT NO. IW-CDS-5020-01 & IW-CDS-5020-03 RESPECTIVELY).
 - PIPE SPECIFICATION
 - PIPE UNDER STRUCTURES
 - PIPES UNDER STRUCTURES TO BE CONCRETE ENCASED WITH 100mm 35N20 CONCRETE SURROUND
 - CONCRETE ENCASEMENT IS TO EXTEND 500mm PAST STRUCTURE
 - LAYER OF COMPRESSIBLE MATERIAL (SUCH AS 50mm POLYSTYRENE) IS TO BE PLACED OVER CONCRETE ENCASEMENT TO PREVENT LOADING FROM THE STRUCTURE OVER
 - COMPRESSIBLE MATERIAL IS TO EXTEND 150mm EACH SIDE OF CONCRETE ENCASEMENT
 - FOUL & SURFACE WATER
 - 100mm Ø uPVC, IN COMPLIANCE WITH BS 4660 AND BS EN 1401-PART 1
 - TO BE LAID AT FALLS OF 1/40 (2.5%)
 - TO BE IN COMPLIANCE WITH PART H, 2010 OF THE BUILDING REGULATIONS
 - SURFACE WATER DRAINAGE TO COMPLY WITH THE CURRENT VERSION OF THE 'GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS'
 - ALL COVER LEVELS TO BE CHECKED IN SITU TO ENSURE THAT THEY ARE LEVEL WITH THE SURROUNDING FINISHED SURFACES.



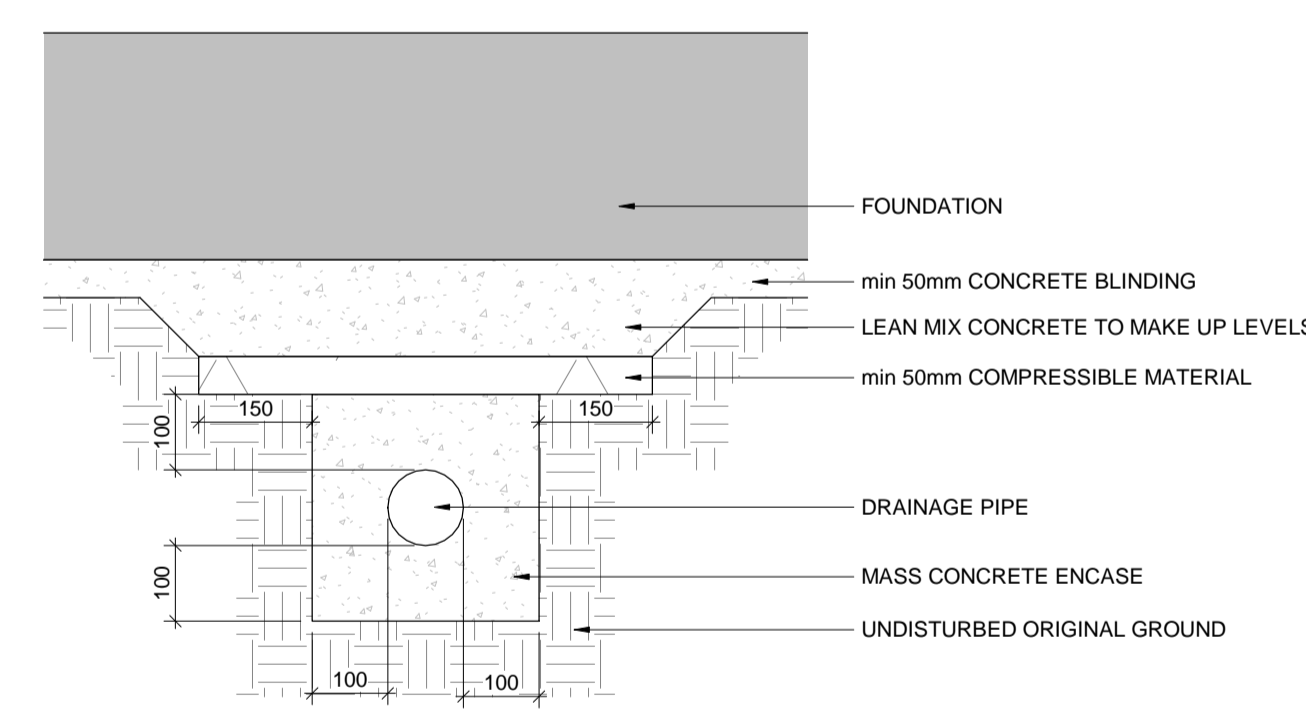
2 ATTENUATION STORAGE SECTION
 SCALE 1 : 20



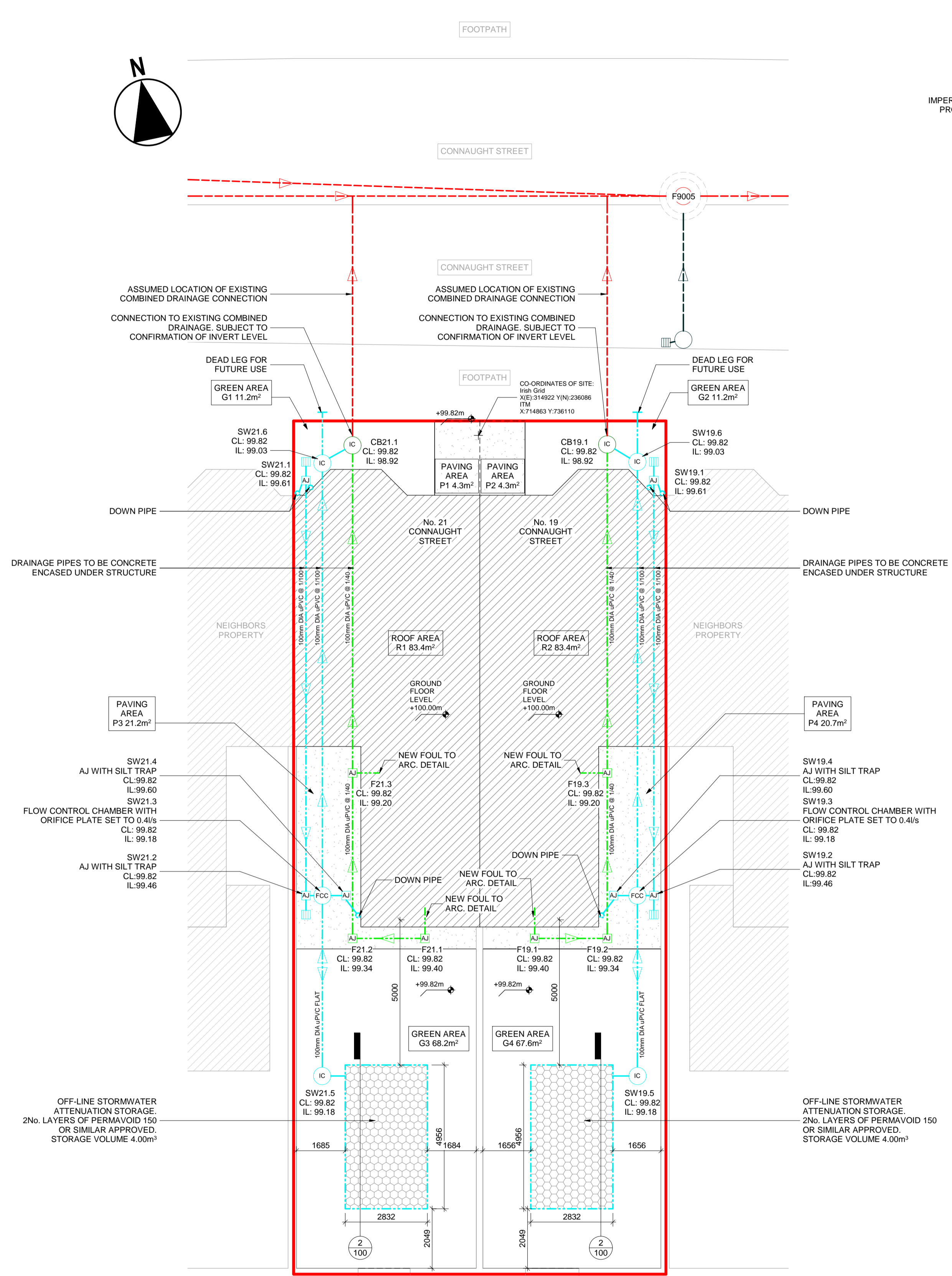
3 CONNECTION TO COMBINE SEWER
 SCALE 1 : 10



4 PIPE UNDER SLAB
 SCALE 1 : 10



5 PIPE UNDER FOUNDATION
 SCALE 1 : 10



1 PROPOSED DRAINAGE LAYOUT
 SCALE 1 : 100

- LEGEND**
- EXISTING COMBINED FOUL AND SURFACE WATER
 - NEW FOUL
 - EXISTING STORMWATER
 - NEW STORMWATER
 - EXISTING WATERMAIN
 - NEW WATERMAIN
 - SITE BOUNDARY LINE
 - MH - MANHOLE
 - IC - INSPECTION CHAMBER
 - AJ - ACCESS JUNCTION
 - GT - GULLY TRAP
 - BIG - BACK INLET GULLY
 - S1.0 STORMWATER MANHOLE NO.
 - F1.0 FOUL MANHOLE NO.
 - CL COVER LEVEL
 - IL INVERT LEVEL

No. 19 CONNAUGHT ST.

TABLE 1 - EXISTING DRAINAGE ARRANGEMENT	HARD AREA	HARD AREA DRAINED DIRECTLY TO PUBLIC SEWER
ROOF AREA	83.9m²	83.9m²
PAVING AREA	25.0m²	25.0m²
TOTAL		108.9m²

TABLE 2 - PROPOSED DRAINAGE ARRANGEMENT	HARD AREA	HARD AREA DRAINED DIRECTLY TO PUBLIC SEWER	HARD AREA SLOWLY DRAINED TO PUBLIC SEWER AT 0.41%
R2 (ROOF AREA)	83.4m²	-	83.4m²
P2+P4 (PAVING)	25.0m²	-	25.0m²
TOTAL		-	108.4m²

STORAGE VOLUME REQUIRED = 3.90m³
 (PROVIDED 4.00m³ USING 2No. LAYERS OF PERMAVOID 150 OR SIMILAR APPROVED)

No. 21 CONNAUGHT ST.

TABLE 3 - EXISTING DRAINAGE ARRANGEMENT	HARD AREA	HARD AREA DRAINED DIRECTLY TO PUBLIC SEWER
ROOF AREA	133.0m²	133.0m²
PAVING AREA	25.0m²	25.0m²
TOTAL		158.0m²

TABLE 4 - PROPOSED DRAINAGE ARRANGEMENT	HARD AREA	HARD AREA DRAINED DIRECTLY TO PUBLIC SEWER	HARD AREA SLOWLY DRAINED TO PUBLIC SEWER AT 0.41%
R1 (ROOF AREA)	83.4m²	-	83.4m²
P1+P3 (PAVING)	25.5m²	-	25.5m²
TOTAL		-	108.9m²

STORAGE VOLUME REQUIRED = 3.92m³
 (PROVIDED 4.00m³ USING 2No. LAYERS OF PERMAVOID 150 OR SIMILAR APPROVED)

REV.	DESCRIPTION	GM	EF	20/08/21
1	ISSUED FOR PLANNING			

PLANNING

DRA
 CONSULTING ENGINEERS

NSAI
 NSAI Certified

DUBLIN 01-216-2956 LIMERICK 061-310-701 WEXFORD 053-915-2814 E: info@draconsulting.ie W: www.draconsulting.ie

ARCHITECT:
 KENNETH HENNESSY ARCHITECTS

PROJECT:
 No. 19 & No. 21 CONNAUGHT STREET, PHIBSBOROUGH, DUBLIN

TITLE:
 PROPOSED DRAINAGE LAYOUT & DETAILS

DATE: 02/07/2021 SCALES: As indicated @ A1

DESIGNER: GM DRG. No. PRODUCER: GM VERIFIER: EF APPROVER: BMG

20155-100

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