

LEGEND:

- SITE BOUNDARY: Red line
- RIPIARIAN STRIP: Blue hatched area
- PERMEABLE PAVEMENT: Yellow hatched area
- FOOTPATHS: Grey hatched area
- ROAD SURFACE: Solid grey area
- BIO SWALES: Green hatched area
- BIO RETENTION TREES: Green oval shapes
- GREEN ROOFS: Green stippled area
- LANDSCAPED AREAS: Light green area

LEGEND:

TOTAL SITE AREA BOUND BY RED LINE.....33165m²

SOFTSTAND

ALL LANDSCAPED AREAS IN TOTAL.....11827m²

HARDSTAND

ALL HARDSTAND AREAS IN TOTAL.....21338m²

ROOFS

GREEN ROOFS (REFER TO ARCHITECTS DRAWING 19038-LP-01-PP)

GREEN ROOFS: 60% OF GROSS ROOF AREA.

PERMEABLE PAVEMENTS: CONTRIBUTING AREAS IS 5 TIMES MAX' OF PAVEMENT PROVIDED.

BIORETENTION TREE PITS: CONTRIBUTING AREAS IS 5 TIMES MAX' OF PAVEMENT PROVIDED.

ROOFS WITH PROVISION FOR GREEN ROOF.....3907m² 2428m²

PROVISION GREEN ROOF PROVISION 62.1%

ROOFS WITHOUT PROVISION FOR GREEN ROOF.....4072m²

TOTAL ROOF AREA (ALL BUILDINGS).....7979m²

PAVED AREAS

TOTAL ROAD AREA.....4217m²

TOTAL PAVING / FOOTPATH AREA.....7276m²

TOTAL PERMEABLE PAVING AREA.....1866m²

TOTAL = 21338m²

INTERCEPTION AND TREATMENT VOLUME CALCULATIONS

INTERCEPTION TO CAPTURE THE FIRST 5mm DEPTH OF RAINFALL.

REQUIRED INTERCEPTION AREAS FOR SUDS FEATURES CALCULATED AS FOLLOWS:

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BIORETENTION TREE PITS: CONTRIBUTING AREAS IS 5 TIMES MAX' OF PAVEMENT PROVIDED.

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ROOFS WITHOUT PROVISION FOR GREEN ROOF.....4072m²

TOTAL ROOF AREA (ALL BUILDINGS).....7979m²

REQUIRED TREATMENT VOLUME CALCULATED USING 15mm RAINFALL X 0.8 X AREA.

TREATMENT VOLUMES FOR FLOWING SUDS FEATURES CALCULATED AS FOLLOWS:

GREEN ROOFS: 50MM DEPTH X AREA.

PERMEABLE PAVEMENTS: 0.3 TIMES VOID SPACE X DEPTH X AREA. (450MM DEPTH)

BIORETENTION TREE PITS: 0.1 TIMES VOID SPACE X DEPTH X AREA. (900MM DEPTH)

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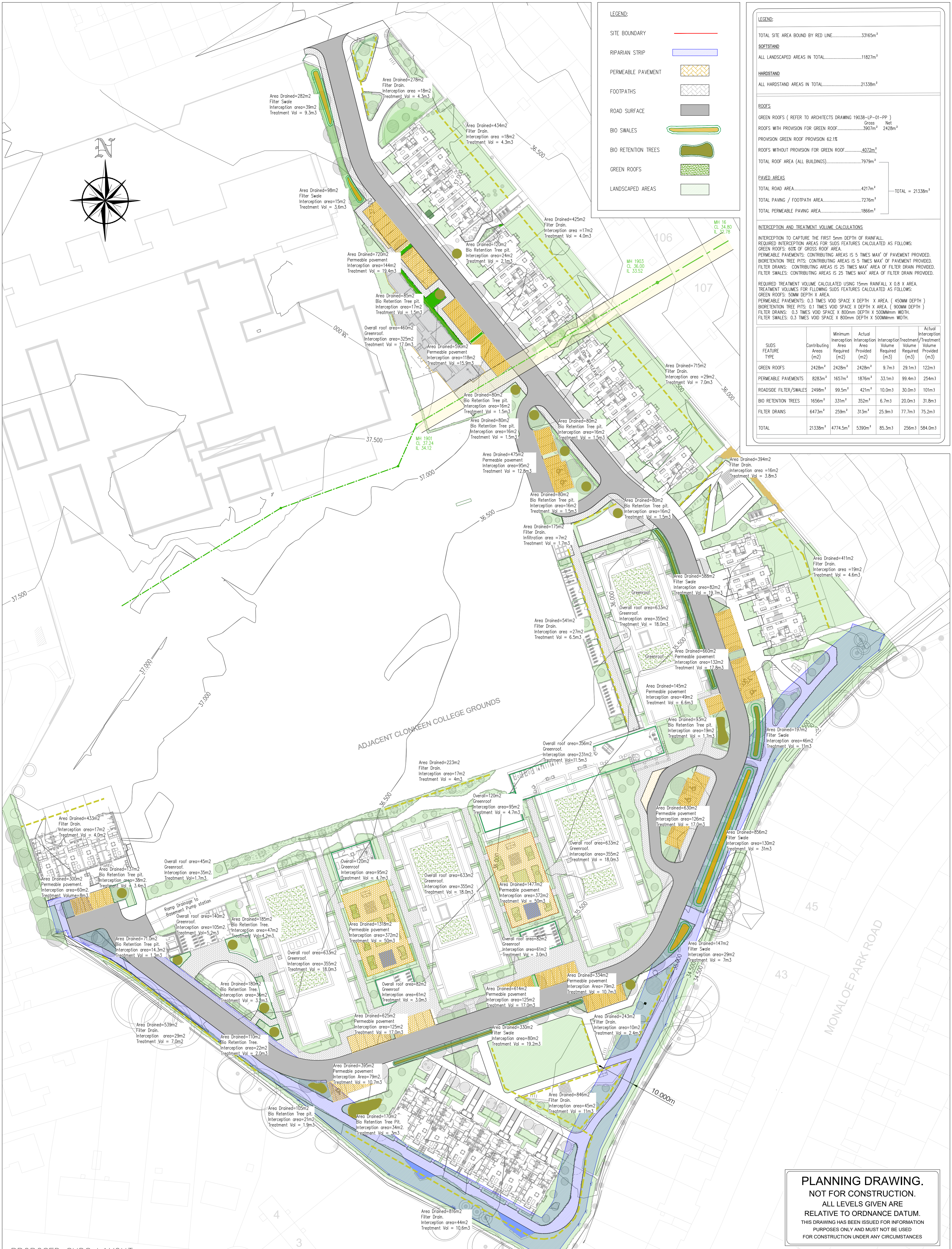
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SUDS FEATURE TYPE	Contributing Area (m ²)	Minimum Interception Area Required (m ²)	Actual Interception Area Provided (m ²)	Interception Volume Required (m ³)	Treatment Volume Required (m ³)	Actual Interception Volume Provided (m ³)
GREEN ROOFS	2428m ²	2428m ²	2428m ²	9.7m ³	29.1m ³	122m ³
PERMEABLE PAVEMENTS	8283m ²	1657m ²	1876m ²	33.1m ³	99.4m ³	254m ³
ROADSIDE FILTER/SWALES	2498m ²	99.5m ²	421m ²	10.0m ³	30.0m ³	101m ³
BIO RETENTION TREES	1656m ²	331m ²	352m ²	6.7m ³	20.0m ³	31.8m ³
FILTER DRAINS	6473m ²	259m ²	313m ²	25.9m ³	77.7m ³	75.2m ³
TOTAL	21338m²	4774.5m²	5390m²	85.3m³	256m³	584.0m³



PROPOSED SUDS LAYOUT. CENT
SCALE = 1:500

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ALL LEVELS GIVEN ARE
RELATIVE TO ORDNANCE DATUM.
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PAC/SHD/162/20 W012

NOTES

- For setting out refer to Architect's drawings.
- This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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Rev. No.	Date	REVISION NOTE	Dr. By	Chkd. By
P1	14.10.2020	ARCHITECTS LAYOUT REVISED	JS	OS
P2	15.06.2021	ARCHITECTS LAYOUT REVISED	DF	RFM
P3	20.08.2021	SUDS REVIEWED AND UPDATED FOR AUDIT	DF	RFM
P4	01.09.2021	BLUE AREAS REMOVED	DF	RFM

Architect	Scott Tallon Walker
Project	Proposed Development at Clonkeen Road
Title	SUDs Layout Plan
Dwg. No.	W012-CSC-ZZ-XX-DR-C-0021
Date	02.06.2020
Dr. By	DF
Chkd. By	RFM
Apprd. By	OS
Scale	1:500 @A1
Revision	P4

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Energy I.S. EN ISO 14001:2004
Health & Safety OHSAS 18001:2007