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ATTENUATION BASIN 1 (WITH 1/5 SLOPES)
TOP OF BANK AREA = 242m²
BOTTOM OF BANK AREA = 75m²
AREA WITH IN BANK SLOPE = 41m²
TOP WATER LEVEL 55.65m/0.5m DEEP
37.5m² + 41m² = 78m² ABOVE GROUND STORAGE

242m² x 0.5m DEEP UNDERLYING STONE (40% VOIDS) = 48.4m³ BELOW GROUND STORAGE

TOTAL ATTENUATION PROVIDED = 126m³

BASIN 2 – ABOVE GROUND ATTENUATION
STORAGE PROVIDED 415m³
TWL 55.65m

ATTENUATION BASIN 2 (WITH 1/5 SLOPES)
TOP OF BANK AREA = 632m²
BOTTOM OF BANK AREA = 289m²
AREA WITH IN BANK SLOPE = 85m²
TOP WATER LEVEL 55.65m/0.5m DEEP
144m² + 85m² = 229m² ABOVE GROUND STORAGE

632m² x 0.5m DEEP UNDERLYING STONE (40% VOIDS) = 126m³ BELOW GROUND STORAGE

TOTAL ATTENUATION PROVIDED = 355m³

ATTENUATION BASIN 3 (WITH 1/5 SLOPES)
TOP OF BANK AREA = 429m²
BOTTOM OF BANK AREA = 181m²
AREA WITH IN BANK SLOPE = 62m²
TOP WATER LEVEL 56.25m/0.5m DEEP
90m² + 62m² = 152m² ABOVE GROUND STORAGE

429m² x 0.5m DEEP UNDERLYING STONE (40% VOIDS) = 85m³ BELOW GROUND STORAGE

TOTAL ATTENUATION PROVIDED = 237m³

HYDROBRAKE MH S49
FOR CATCHMENT 1
CL56.00
IL53.77
DESIGN FLOW
10.58m³ l/s

HYDROBRAKE FOR CATCHMENT 2
MH S84
CL56.74
IL54.21
DESIGN FLOW
19.36m³ l/s

ABOVE GROUND ATTENUATION IN BASKET BALL COURT
AREA = 665m²
TWL 56.25/0.25m DEEP
STORAGE PROVIDED 166m³

BELOW GROUND ATTENUATION STORAGE.
256m²x1.6m DEEP
STORAGE PROVIDED 410m3
TWL 56.25

NOTE:
WHERE DEPTH OF COVER TO TOP OF PIPE IS LESS THAN 1.2m IN TRAFFICKED AREAS, PIPES TO BE SURROUNDED WITH 100mm OF CONCRETE

NOTE:
WHERE PUBLIC FOUL MANHOLES ARE LOCATED IN LANDSCAPED AREAS, MANHOLES ARE TO BE IDENTIFIABLE, ACCESSIBLE AND PREVENTED FROM BEING OVERGROWN. COVERS ARE TO BE SET IN CONCRETE SURROUND PLINTH, 200MM ALL ROUND AND 100MM DEEP FORMED BY C20/25N CONCRETE, 20MM NOMINAL AGGREGATE SIZE, AND BEDDED IN CLAUS 804

This drawing should not be scaled. Dimensions to be verified on site.
Any discrepancies should be referred to the Engineer prior to work being put in hand.
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Block S East Point Business Park Dublin D03 H3F4 Ireland t +353 1 664 8900

NOTES:

1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.

KEYPLAN
SCALE 1:7500

LEGEND:

- EXISTING FOUL WATER SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED FOUL WATER SEWER
- PROPOSED SURFACE WATER NETWORK
- PROPOSED FOUL INSPECTION CHAMBER AND CONNECTION
- PROPOSED SURFACE WATER INSPECTION CHAMBER AND CONNECTION
- PROPOSED PERFORATED PIPE
- PROPOSED GULLY AND CONNECTION
- PROPOSED PERMEABLE PAVING
- PROPOSED BELOW GROUND ATTENUATION STORAGE
- PROPOSED ABOVE GROUND STORAGE WITH FILTER STONE BELOW
- PROPOSED GREEN ROOF
- PROPOSED RAIN GARDEN
- PROPOSED TREE PIT

Rev	Date	Description	By	Chk

Amendments

Project: CHERRY ORCHARD POINT

Title: DRAINAGE LAYOUT SHEET 2 OF 3

Client: LAND DEVELOPMENT AGENCY

BLOCK S, EASTPOINT BUSINESS PARK, ALFIE BYRNE ROAD, DUBLIN D03 H3F4 IRELAND. Tel: (01) 664 8900
Email: info@waterman-moylan.ie www.waterman-moylan.ie

Status: PLANNING

Designed By	Approved	Waterman Ref
PJD	IW	22-010
Drawn By	Date	Scales @ A1
PJD	OCT 2023	1:500

Project - Originator - Volume - Level - Type - Role - Number: COP-WMC-PH1 -00-DR-C-P202
Revision: -

1:500 0 10.0 20.0 30.0 40.0 50.0m
1:1 0 10 20 30 40 50 60 70 80 90 100

Drawing Location: M:\Projects\22\22-010 Cherry Orchard - Sites 4 & 5 - CAS\Drawings\Waterman Moylan\Civil\Planning\Autocad Drawings\22-010-P201-P202-P203 Drainage Layout Sheets 1 to 3.dwg
Date: Oct 20, 2023 - 3:42pm