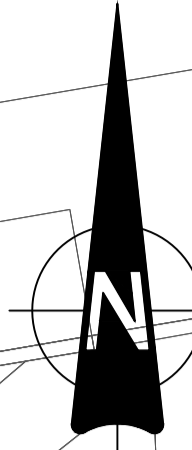


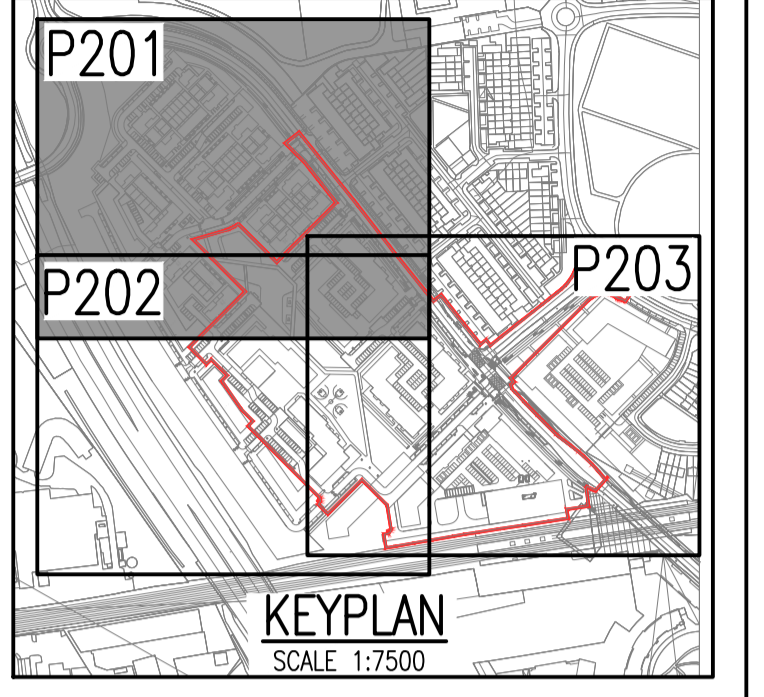
NOTE:  
WHERE DEPTH OF COVER TO TOP OF PIPE IS LESS THAN 1.2m IN TRAFFICKED AREAS, PIPES TO BE SURROUNDED WITH 100mm OF CONCRETE

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



**LEGEND:**

- FS EXF EXISTING FOUL WATER SEWER
- SW EXS EXISTING SURFACE WATER SEWER
- XXX @ 1/XXX FX PROPOSED FOUL WATER SEWER
- uPVC/SNB
- XXX @ 1/XXX SX PROPOSED SURFACE WATER NETWORK
- PROPOSED FOUL INSPECTION CHAMBER AND CONNECTION
- PROPOSED SURFACE WATER INSPECTION CHAMBER AND CONNECTION
- PROPOSED PERFORATED PIPE
- G 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

INDICATIVE MASTERPLAN LAYOUT ONLY  
SUBJECT TO SEPARATE FUTURE PLANNING APPLICATION

ATTENUATION BASIN 1 (WITH 1/5 SLOPES)  
TOP OF BANK AREA = 242m<sup>2</sup>  
BOTTOM OF BANK AREA = 75m<sup>2</sup>  
AREA WITH IN BANK SLOPE = 41m<sup>2</sup>  
TOP WATER LEVEL 55.65m/0.5m DEEP  
37.5m<sup>2</sup> + 41m<sup>2</sup> = 78m<sup>2</sup> ABOVE GROUND STORAGE  
242m<sup>2</sup> x 0.5m DEEP UNDERLYING STONE (40% VOIDS) = 48.4m<sup>3</sup> BELOW GROUND STORAGE  
TOTAL ATTENUATION PROVIDED = 126m<sup>3</sup>

BELOW GROUND ATTENUATION  
1198m<sup>2</sup>x1.2m DEEP  
STORAGE PROVIDED 1437m<sup>3</sup>  
TWL 55.65

ATTENUATION BASIN 2 (WITH 1/5 SLOPES)  
TOP OF BANK AREA = 632m<sup>2</sup>  
BOTTOM OF BANK AREA = 289m<sup>2</sup>  
AREA WITH IN BANK SLOPE = 85m<sup>2</sup>  
TOP WATER LEVEL 55.65m/0.5m DEEP  
144m<sup>2</sup> + 85m<sup>2</sup> = 229m<sup>2</sup> ABOVE GROUND STORAGE  
632m<sup>2</sup> x 0.5m DEEP UNDERLYING STONE (40% VOIDS) = 126m<sup>3</sup> BELOW GROUND STORAGE  
TOTAL ATTENUATION PROVIDED = 355m<sup>3</sup>

BASIN 2 - ABOVE GROUND ATTENUATION STORAGE PROVIDED 415m<sup>3</sup>  
TWL 55.65m

Rev	Date	Description	By	Chk
Amendments				
Project <b>CHERRY ORCHARD POINT</b>				
Title <b>DRAINAGE LAYOUT SHEET 1 OF 3</b>				
Client LAND DEVELOPMENT AGENCY				
BLOCK S, EASTPOINT BUSINESS PARK, ALFIE BYRNE ROAD, DUBLIN D03 H3F4 IRELAND. Tel: (01) 684 8900 Email: info@waterman-moylan.ie www.waterman-moylan.ie				
Status <b>PLANNING</b>				
Designed By	PJD	Approved	IW	Waterman Ref
Drawn By	PJD	Date	OCT 2023	22-010 Scales @ A1 1:500
Project - Originator - Volume - Level - Type - Role - Number				
COP-WMC-PH1-00-DR-C-P201				