

STANHOPE STREET

Stanhope Green

Grange Court

INTENSIVE GREEN/BLUE ROOF - AREA 1 AND 2
 TOTAL GREEN / BLUE ROOF AREA = 971.47m²
 STORAGE LAYER = 0.1m DEEP
 VOID RATIO = 95%
 STORAGE VOLUME PROVIDED = 92.290m³
 STORAGE VOLUME REQUIRED = 31.071m³

DETENTION BASIN - AREA 1

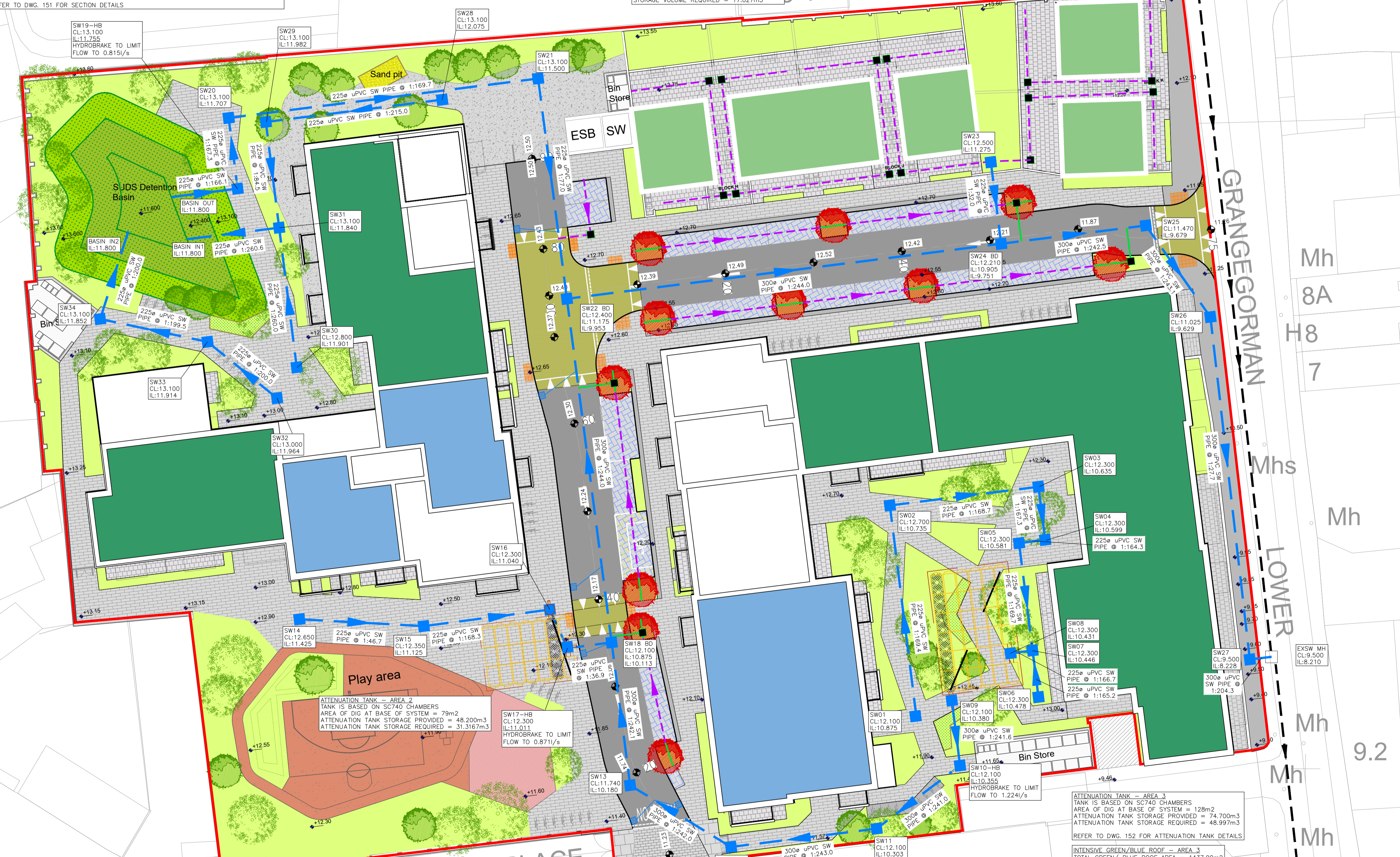
LEVELS CHECK
 LOWEST FFL = 12.550m
 1:100YR WATER LEVEL i.e. 300mm FREEBOARD = 12.250m
 LET THE 1:100 YR WATER LEVEL = 12.100m

DETENTION BASIN
 SIDE SLOPE = 1:4
 TOP OF EMBANKMENT = VARIES BETWEEN 12.600m - 13.600m
 1:100 YEAR WATER LEVEL = 12.100m i.e. 500mm FREEBOARD FROM 1:100YR WATER LEVEL
 800mm DEPTH FOR WATER STORAGE
 BASIN BOTTOM LEVEL = 11.000m

TOP AREA OF BASIN AT 1:100YR STORM WATER = 260.874m²
 BOTTOM AREA OF BASIN AT 1:100YR STORM WATER = 40.660m²
 AVERAGE AREA = 150.767m²
 1:100YR STORM VOLUME PROVIDED = 150.767m² x 1.100m = 165.844m³
 1:100YR STORM VOLUME REQUIRED = 37.340m³

REFER TO DWG. 151 FOR SECTION DETAILS

EXTENSIVE GREEN/BLUE ROOF DUPLEX UNITS
 TOTAL GREEN / BLUE ROOF AREA = 467.813m²
 STORAGE LAYER = 0.1m DEEP
 VOID RATIO = 95%
 STORAGE VOLUME PROVIDED = 44.442m³
 STORAGE VOLUME REQUIRED = 17.027m³



NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF MALONE O'REGAN CONSULTING ENGINEERS AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DRAWING WAS ORIGINALLY CREATED.

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, SPECIFICATIONS AND THE PRELIMINARY HEALTH & SAFETY PLAN.

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE. DO NOT SCALE DIMENSIONS.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IN WRITING.

NOTES

BY	DRAWING No. & REFERENCE	DATE
SURVEY	JEG2660, STANLEY ST. TOPO 29092023	29.09.2023
ARCH	SHB4-SSD-DR-MOR-CS-P3-0009 - R03	08.08.2024
ARCH	SHB4-SSD-DR-MOR-CS-P3-0001 - REV 2	08.08.2024

LEGEND

- EXISTING SURFACE DRAINAGE LINE
- EXISTING SURFACE MANHOLE
- EXISTING SURFACE ARMSTRONG JUNCTION
- EXISTING SURFACE ROAD GULLY
- PROPOSED SURFACE DRAINAGE LINE
- PROPOSED SURFACE MANHOLE
- PROPOSED SURFACE ROAD GULLY
- PROPOSED TREE PIT
- PERMEABLE PAVING (INCLUDING FOOTPATHS)
- PERMEABLE PAVING UNDERDRAIN 150ø
- TREE PIT UNDERDRAIN 150ø
- INSPECTION CHAMBER
- BLUE ROOF ON APARTMENT BLOCKS
- INTENSIVE GREEN ROOF OVER BLUE ROOF ON APARTMENT BLOCKS
- EXTENSIVE GREEN ROOFS ON DUPLEX UNITS

DRAINAGE NOTES

- ALL DRAINAGE INFRASTRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
- WHERE INFORMATION CONTAINED WITHIN THE CODE OF PRACTICE CONFLICTS WITH OTHER NOTES ON THIS DRAWING, THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE CODE OF PRACTICE.

REV	DESCRIPTION	DATE	BY	CHK
7	DRAINAGE DESIGN AMENDED TO SPLIT THE SITE INTO SUB-CATCHMENTS FOR EACH OF THE BUILDING BLOCKS, WITH INDIVIDUAL CONNECTIONS FROM EACH SUB-CATCHMENTS INTO A SINGLE SURFACE SEWER ON THE ROAD.	16.09.24	KA	DW
6	ISSUED FOR PLANNING	28.08.24	KA	ND
5	SITE LAYOUT AMENDED AND REVISED TO SUIT CHANGES TO ARCHITECTS LAYOUT REVISIONS TO SITE ENTRANCE AND PLAY AREAS	21.05.24	KA	ND
4	SITE LAYOUT AMENDED AND REVISED TO SUIT CHANGES TO ARCHITECTS LAYOUTS. LAYOUT REVISED TO SHOW UPDATED POS AND PLAY AREAS	02.05.24	KD	ND
3	SITE LAYOUT AMENDED AND REVISED TO SUIT CHANGES TO ARCHITECTS LAYOUTS. EXISTING DRAINAGE SHOWN TO BE REMOVED.	26.04.24	KA	ND
2	ISSUED FOR INFORMATION	23.04.24	KA	ND
1	SITE LAYOUT AMENDED AND REVISED TO SUIT CHANGES TO LANDSCAPE ARCHITECT AND ARCHITECTS LAYOUTS	19.04.24	KD	ND
0	ISSUED FOR INFORMATION	11.04.24	KD	ND

STATUS: **P3 - PLANNING**

MOR
 MALONE O'REGAN
 CONSULTING ENGINEERS

Unit 2B Richeview Office Park,
 Clonskeagh,
 DUBLIN 14
 D14 XT57

T: +353 1 260 2655
 E: dublin@mor.ie
 W: www.malnooregan.ie

Offices also in:
 GALWAY T: +353 91 531 069 E: galway@mor.ie
 WATERFORD T: +353 51 876 855 E: waterford@mor.ie

CUSTOMER: DUBLIN CITY COUNCIL

JOB NAME: SOCIAL HOUSING BUNDLE 4, DEVELOPMENT AT THE STANLEY STREET DEPOT, DUBLIN 7

DRG NAME: SUDS LAYOUT

JOB REF	SHEET	SCALE	DATE	BY	ENG	APP	REV.
23006	A1	1:250	OCT 2023	KA	PB	PB	6

DRG NO.: SHB4-SSD-DR-MOR-CS-P3-150