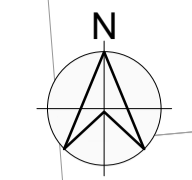


DONT FORGET SAFETY

# STANHOPE STREET

## Stanhope Green

## Grange Court



BY	DRAWING No. & REFERENCE	DATE
ARCH	262660-STANLEY ST 10PO 29092023	29.09.2023
ARCH	SH4-SSD-DR-SHA-AR-P3-009 - R03	08.08.2024
LS ARCH	SH4-SSD-DR-WL-L-P1-001 - REV 2	08.08.2024

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THIS DRAWING IS 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

**INTENSIVE GREEN/BLUE ROOF - AREA 1 AND 2**  
 TOTAL GREEN / BLUE ROOF AREA = 971.47m<sup>2</sup>  
 STORAGE LAYER = 0.1m DEEP  
 VOID RATIO = 95%  
 STORAGE VOLUME PROVIDED = 92.290m<sup>3</sup>  
 STORAGE VOLUME REQUIRED = 31.071m<sup>3</sup>

**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 = 260.874m<sup>2</sup>  
 BOTTOM AREA OF BASIN AT 1:100YR STORM WATER = 40.680m<sup>2</sup>  
 AVERAGE AREA = 150.767m<sup>2</sup>  
 1:100YR STORM VOLUME PROVIDED = 150.767m<sup>3</sup> x 1.100m = 165.844m<sup>3</sup>  
 1:100YR STORM VOLUME REQUIRED = 37.340m<sup>3</sup>  
 REFER TO DWG. 151 FOR SECTION DETAILS

**EXTENSIVE GREEN/BLUE ROOF DUPLEX UNITS**  
 TOTAL GREEN / BLUE ROOF AREA = 467.813m<sup>2</sup>  
 STORAGE LAYER = 0.1m DEEP  
 VOID RATIO = 95%  
 STORAGE VOLUME PROVIDED = 44.442m<sup>3</sup>  
 STORAGE VOLUME REQUIRED = 17.027m<sup>3</sup>

### DRAINAGE NOTES

- ALL FOUL WORKS TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE DOCUMENT W-CDS-5030-03 AND IRISH WATER STANDARD DETAILS W-CDS-5030-01.
- ALL SURFACE WATER DRAINAGE RUNS ARE TO A GRADE OF 1:150 AND PIPE SIZE OF 225<sup>ø</sup> UNLESS OTHERWISE STATED.
- ALL SURFACE WATER DRAINAGE RUNS ARE TO A GRADE OF 1:200 AND PIPE SIZE OF 225<sup>ø</sup> UNLESS OTHERWISE STATED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT JUNCTION BOXES, CHAMBERS, MANHOLES, GULLIES TO ENSURE NO CLASHES WITH SERVICE DUCTS AND PIPES.
- ALL LEVELS ARE IN METRES ABOVE MALIN HEAD DATUM UNLESS OTHERWISE NOTED.
- ALL COVER LEVELS ARE INDICATIVE ONLY.
- ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTE WATER INFRASTRUCTURE AND STANDARD DETAILS.
- MANHOLES, MANHOLE COVERS AND ROAD GULLY GRATINGS TO STANDARD SPECIFICATION.
- ALL PIPE DIAMETERS ARE NOMINAL.
- THE CONTRACTOR MUST SATISFY HIMSELF IN RESPECT TO THE LOCATION OF ALL EXISTING SERVICES.
- ALL FOUL PIPEWORK TO BE UPVC IN ACCORDANCE WITH SECTION 3.13 AND 3.14 OF IRISH WATER CODE OF PRACTICE FOR WASTE WATER INFRASTRUCTURE.
- ALL ROAD GULLY DRAINS ARE 150mm  $\phi$ .
- 600mm MAX LENGTH ROCKER PIPES ARE TO BE PROVIDED ON SEWERS WHERE:
  - A PIPE ENTERS A MANHOLE OR PUMPING STATION
  - A PIPE LEAVES A MANHOLE
  - A PIPE ENTERS CONCRETE ENCASMENT
  - A PIPE LEAVES CONCRETE ENCASMENT
  - ANY OTHER LOCATION AS DIRECTED BY THE ENGINEER
- ALL SEWER ROCKER PIPES ARE TO BE FORMED BY CUTTING AND TRIMMING A LENGTH OF SPIGOT & SOCKET PIPE TO FORM A SPIGOT AT THE CUT END, THEREBY FORMING SPIGOT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER PIPE.
- ALL ROCKER PIPES SHALL BE NO MORE THAN 150mm FROM THEIR ASSOCIATED MANHOLE, PUMPING STATION, CONCRETE ENCASED SECTION OR VALVE CHAMBER.
- ALL MANHOLE COVERS LOCATED IN TRAFFICKED AREA ARE TO BE SKID RESISTANT.
- ALL GULLY GRATINGS ARE TO BE MIN. CLASS D400 TO IS EN 124 AND ARE TO BE LOCKABLE.
- WHERE COVER TO PIPE IS LESS THAN 900mm UNDER GRASSED AREAS OR LESS THAN 1200mm UNDER ROADWAYS THE PIPE SHOULD BE SURROUNDED IN CONCRETE.
- EXTERNAL FACE OF PROPOSED MANHOLE CHAMBERS LOCATED AT LEAST 0.5m FROM KERB LINES. EXTERNAL FACE OF SEWERS TO BE LOCATED AT LEAST 1m FROM KERB LINES.
- EXTERNAL FACE OF SEWERS TO BE A MINIMUM OF 3m FROM EXTERNAL FACE OF DEVELOPMENT OR EQUIVALENT DISTANCE TO THE DEPTH OF SEWER BELOW THE FOUNDATION (WHICHEVER IS GREATER).
- EXTERNAL FACE OF FOUL MANHOLE CHAMBERS TO BE LOCATED AT LEAST 0.5m FROM KERBLINES. EXTERNAL FACE OF FOUL SEWER PIPEWORK TO BE LOCATED AT LEAST 1.0m FROM KERBLINES.
- ALL WASTEWATER INSPECTION CHAMBERS SHOULD BE IN COMPLIANCE WITH THE W CODE OF PRACTICE AND STD-WW-02 & 03.
- SEPARATION DISTANCES FROM OTHER SERVICES, BOUNDARY WALLS, TREES, ETC. TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-WW-05, STD-WW-06, STD-WW-06A.
- ALL MANHOLES IN PEDESTRIAN AREAS TO HAVE NON-SLIP COVERS.
- ALL EXISTING MANHOLE COVERS IN PEDESTRIAN AREAS TO BE COVERED WITH ANTI-SLIP SURFACING.

**LEGEND**

	PROPOSED FOUL DRAINAGE LINE
	PROPOSED FOUL MANHOLE
	PROPOSED FOUL ARMSTRONG JUNCTION
	EXISTING FOUL DRAINAGE LINE
	EXISTING FOUL MANHOLE
	EXISTING FOUL ARMSTRONG JUNCTION
	EXISTING COMBINED SEWER DRAINAGE LINE
	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 150 $\phi$
	TREE PIT UNDERDRAIN 150 $\phi$
	INSPECTION CHAMBER

### IRISH WATER APPLICABLE DETAILS (NON-EXHAUSTIVE LIST) WASTE WATER DETAILS - TABLE

STD-WW-01	WASTEWATER SERVICES CONNECTION MAINTENANCE RESPONSIBILITY
STD-WW-03	DRAIN & SERVICE CONNECTION PIPEWORK
STD-WW-04	TYPICAL SEWER/SERVICE PIPE CONNECTION
STD-WW-05	TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES
STD-WW-05A	WASTEWATER SERVICE CONNECTION VERTICAL SEPARATION DISTANCES
STD-WW-06	ADJUSTIONS ON WASTEWATER INFRASTRUCTURE WORKS ADJACENT TO TREES
STD-WW-06A	RESTRICTIONS ON NEW TREES / SHRUBS PLANTING ADJACENT TO SEWERS
STD-WW-07	TRENCH BACKFILL AND BEDDING
STD-WW-08	CONCRETE BED, HAUNCH AND SURROUND TO WASTEWATER PIPES
STD-WW-10	PRE-CAST CONCRETE MANHOLE WITH CAST IN-SITU BASE
STD-WW-10A	PRE-CAST CONCRETE MANHOLE WITH PRECAST BASE
STD-WW-12	BACKDROP AND CASCADE MANHOLES
STD-WW-36	MARKER POST/PLATES

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.	13.09.24	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

STATUS: P3 - PLANNING

**MOR**  
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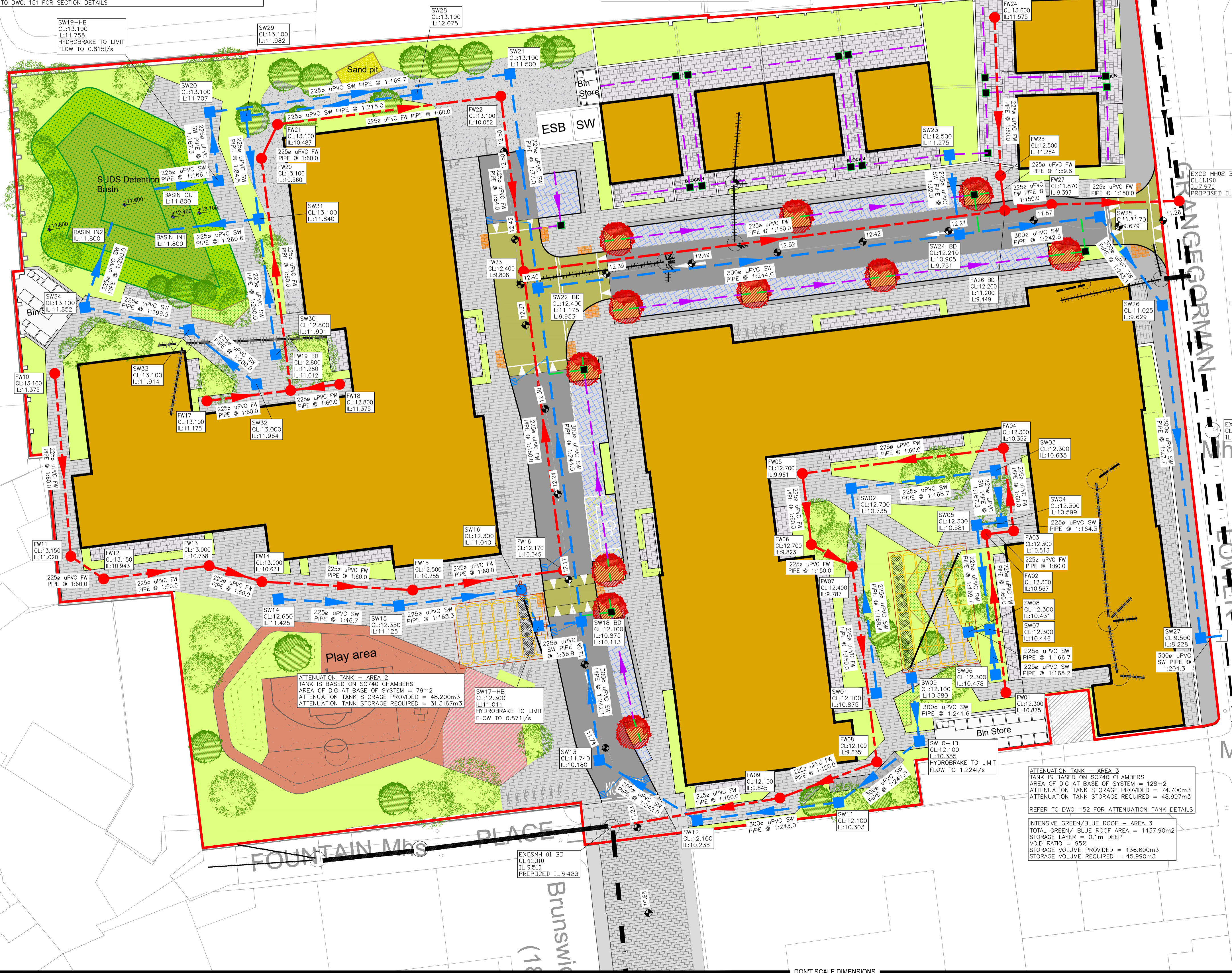
CLIENT: DUBLIN CITY COUNCIL

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

DRG NAME:  
 FOUL SEWER AND SURFACE WATER DRAINAGE LAYOUT

JOB REF	SHEET	SCALE	DATE	BY	ENG	APP	REV
23006	A1	1:250	OCT 2023	KD	PB	PB	7

DRG NO: SHB4-SSD-DR-MOR-CS-P3-130



**ATTENUATION TANK - AREA 2**  
 TANK IS BASED ON SC740 CHAMBERS  
 AREA OF DIG AT BASE OF SYSTEM = 79m<sup>2</sup>  
 ATTENUATION TANK STORAGE PROVIDED = 48.200m<sup>3</sup>  
 ATTENUATION TANK STORAGE REQUIRED = 31.3167m<sup>3</sup>  
 SW17-HB  
 CL:12.300  
 IL:11.011  
 HYDROBRAKE TO LIMIT FLOW TO 0.871l/s

**ATTENUATION TANK - AREA 3**  
 TANK IS BASED ON SC740 CHAMBERS  
 AREA OF DIG AT BASE OF SYSTEM = 128m<sup>2</sup>  
 ATTENUATION TANK STORAGE PROVIDED = 74.700m<sup>3</sup>  
 ATTENUATION TANK STORAGE REQUIRED = 48.897m<sup>3</sup>  
 REFER TO DWG. 152 FOR ATTENUATION TANK DETAILS

**INTENSIVE GREEN/BLUE ROOF - AREA 3**  
 TOTAL GREEN / BLUE ROOF AREA = 1437.90m<sup>2</sup>  
 STORAGE LAYER = 0.1m DEEP  
 VOID RATIO = 95%  
 STORAGE VOLUME PROVIDED = 136.600m<sup>3</sup>  
 STORAGE VOLUME REQUIRED = 45.990m<sup>3</sup>

DONT SCALE DIMENSIONS