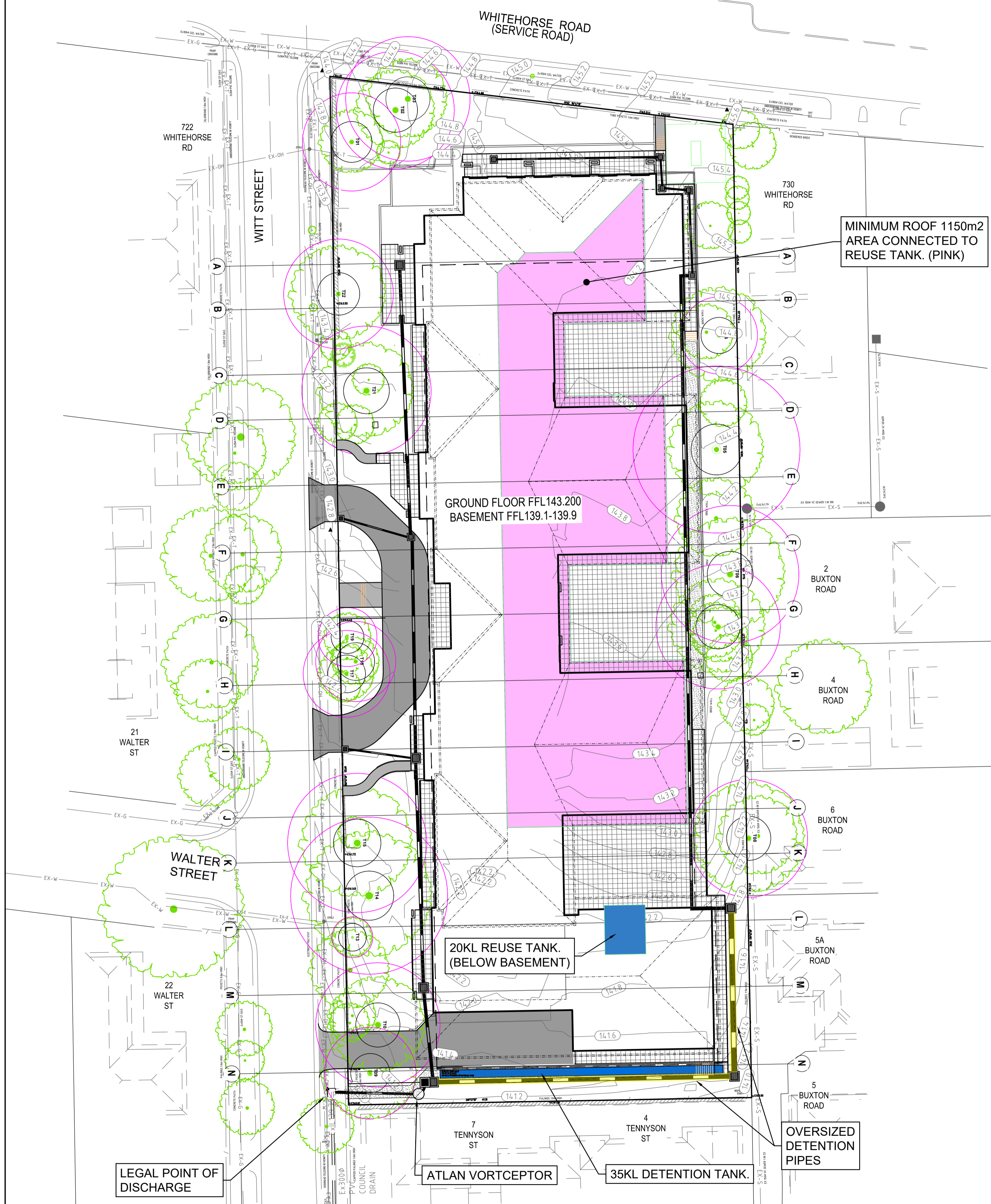


**TOWN PLANNING ISSUE**

# STORMWATER MANAGEMENT PLAN

## PROPOSED AGED CARE FACILITY

8 WITT STREET, MITCHAM, VIC



**STORMWATER MANAGEMENT SUMMARY**

**FLOODING:**  
COUNCIL LIABLE TO FLOODING ADVICE (REG 153/154) - NO. NO APPLICABLE LSI0 / SBO.

**STORMWATER ON-SITE DETENTION:**  
20% (5 year) POST DEVELOPMENT (C0.85) RESTRICTED TO 20% (5year) PRE DEVELOPMENT (C0.35)  
PSD = 47l/s  
DETENTION REQUIRED = 47m3  
(COMBINATION TANK AND OVERSIZE PIPES)  
- 35m x 450dia PIPE, 20m x 600dia PIPE + PITS = 12m3  
- DETENTION TANK = 35m3

**WATER QUALITY (WSUD):**  
20KL REUSE TANK CONNECTED TO 1150m2 ROOF (WEST FACING DPS)  
PLUMBED FOR IRRIGATION  
ATLAN VORTCEPTOR GPT

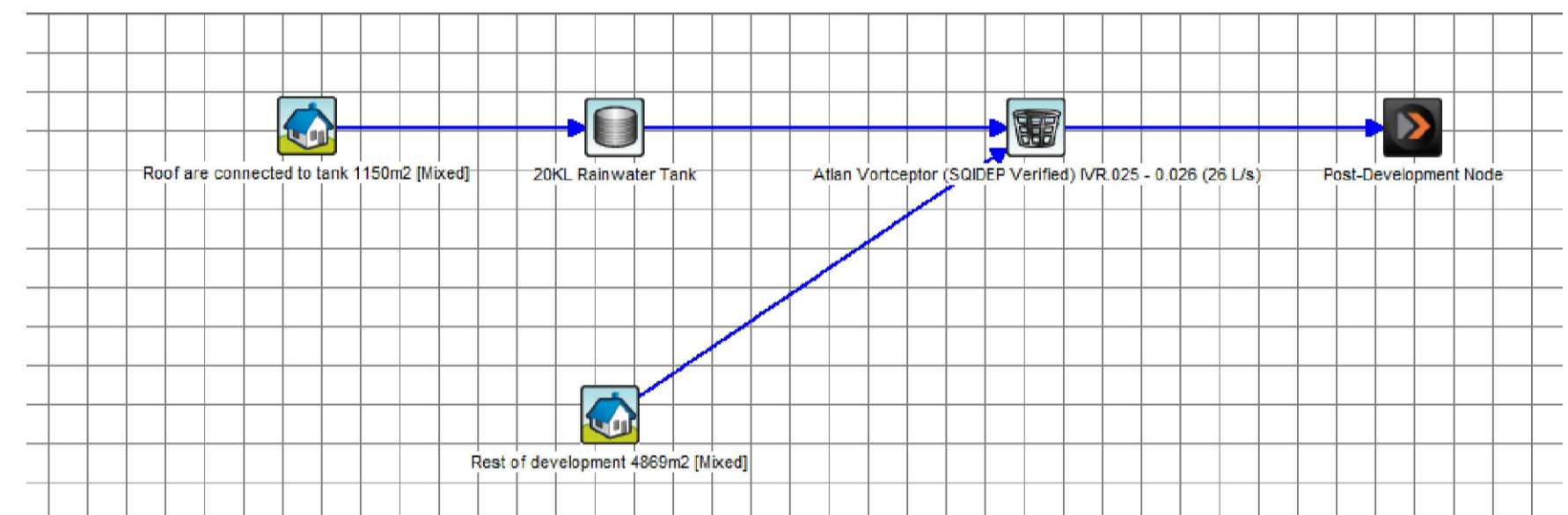
**MELBOURNE WATER:**  
NOT IN MELBOURNE WATER DRAINAGE SCHEME

**LEGEND**

DRAINAGE PIPES	STORMWATER DRAINAGE (20%AEP)	
	EXISTING DRAINAGE	
OVERLAND FLOW	INDICATED BY FLOW ARROWS ON PLAN	
LEVELS	EXISTING CONTOURS	
	EXISTING SPOT LEVELS	

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**ADVERTISED PLAN**



**MUSIC TREATMENT TRAIN**

Treatment Train Effectiveness - Post-Development Node

	Sources	Residual Load	% Reduction
Flow (ML/yr)	4.4	3.69	16.1
Total Suspended Solids (kg/yr)	920	87.5	90.5
Total Phosphorus (kg/yr)	1.8	0.256	85.8
Total Nitrogen (kg/yr)	12.7	5.64	55.5
Gross Pollutants (kg/yr)	154	2.31	98.5

Include Pre-Development

**MUSIC RESULTS**

THE CONCEPTUAL STORMWATER DRAINAGE SYSTEM ON THIS SITE HAS BEEN DESIGNED, WITH THE USE OF "MUSIC" (MODEL FOR URBAN STORMWATER IMPROVEMENT CONCEPTUALISATION), SUCH THAT STORMWATER RUNOFF EXITING THE LAND MEETS THE CURRENT BEST PRACTICE WITH THE USE OF THE FOLLOWING TREATMENT DEVICES:

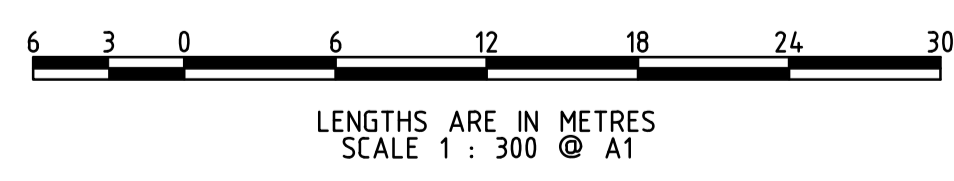
- 1 x 20,000L UNDERGROUND RAINWATER TANK
- PLUMBED TO IRRIGATION.
- 1 x ATLAN VORTCEPTOR (SODEP APPROVED)

PERFORMANCE OBJECTIVES FOR STORMWATER QUALITY, AS CONTAINED IN THE URBAN STORMWATER BEST PRACTICE ENVIRONMENTAL MANAGEMENT GUIDELINES (VICTORIAN STORMWATER COMMITTEE, 1999) AS FOLLOWS:

- 80% REDUCTION OF THE TYPICAL ANNUAL LOAD OF SUSPENDED SOLIDS (90.5% ACHIEVED)
- 45% REDUCTION OF THE TYPICAL ANNUAL LOAD OF TOTAL PHOSPHORUS (85.8% ACHIEVED)
- 45% REDUCTION OF THE TYPICAL ANNUAL LOAD OF TOTAL NITROGEN (55.5% ACHIEVED)
- 70% REDUCTION OF THE TYPICAL ANNUAL LOAD OF GROSS POLLUTANTS (98.5% ACHIEVED)

FOR TREATMENT OF STORMWATER ON SITE MEETS BEST PRACTICE GUIDELINES AND THEREFORE HAS AN EQUIVALENT "STORM" RATING OF 100%

**DRAINAGE DESIGN PARAMETERS:**  
MINOR FLOWS:  
20% AEP UNDERGROUND PIPED DRAINAGE NETWORK DIRECTED TO THE LP0D SHOWN ON PLAN.  
**MAJOR FLOWS:**  
1% AEP OVERLAND FLOW PATHS DIRECTED TO ROAD RESERVE.



NO	REVISION	DATE	NO	REVISION	DATE
A	TOWN PLANNING ISSUE	22/05/25			
P1	PRELIMINARY ISSUE	23/03/25			

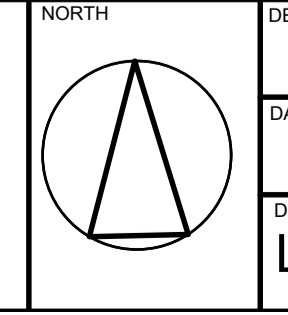
DATUMS USED FOR THIS DESIGN/DRAWING  
VERTICAL: AHD - REFER BENCH MARKS ON PLAN VIDE PM MMB 2096, PARISH OF NUNAWADING, RL145.854m.  
HORIZONTAL: MGA 2020 ZONE 55  
PREPARED BY: SPEEDIE DEVELOPMENT CONSULTANTS  
DATE: 20/09/24  
REF No.: 13516F  
MUNICIPALITY: WHITEHORSE CITY COUNCIL



**Lanigan Civil**  
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Email: admin@lanivil.com.au

AGED CARE FACILITY  
8 WITT STREET,  
MITCHAM

STORMWATER  
MANAGEMENT PLAN



DESIGNED	DRAWN	CHECKED
NJC	NJC	--
DATE	SCALE/S	
AS NOTED	AS NOTED	
DWG NO	ISSUE	
LC3050-SMP1	A	

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