

Verbs: X-8466000-AR_Ground Floor; X-8466000-SU_Ground; X-8466000-SW_Layrout; X-8466000-SW_Sub Soil; X-8466000-DE-2nd spot levels; X-8466000-DE-Kern & Gutter; X-8466000-AR_Trees; X-8466000-SU_Ultiles; X-8466000-TB_Alt; X-8466000-TB_AltH (State)
Per Date: 25.06.2022 13:40:33 Cad File: X-8466000\Drawings\PDF\Civil\Design\Sketches\8466000-W\SCS-rs SK04-Alternative Rickaby Street Outer.dwg



DESIGN NOTES:

1. IT IS UNDERSTOOD THAT THE SUBJECT DEVELOPMENT SITE IS SITUATED IN A FLOOD STORAGE ZONE WITH APPROX. 1% AEP FLOOD LEVEL OF 17.3 m AHD.
2. THE PROVISIONS OF ON-SITE DETENTION SYSTEM WOULD NOT BE APPROPRIATE FOR THE FLOOD STORAGE ZONE DUE TO THE BALANCED CUT AND FILL REQUIREMENT AND NO DETRACTION OF THE FLOOD STORAGE VOLUME BY THE PROPOSED DEVELOPMENT.
3. PROPOSED PROPRIETARY STORMWATER QUALITY TREATMENT DEVICES TO ACHIEVE THE PERCENTAGE REDUCTION IN AVERAGE ANNUAL POLLUTANT LOAD IN ACCORDANCE WITH COUNCIL'S DCP (HCC, 2002):
 - 85% REDUCTION IN TOTAL SUSPENDED SOLIDS (TSS)
 - 65% REDUCTION IN TOTAL PHOSPHORUS (TP)
 - 45% REDUCTION IN TOTAL NITROGEN (TN)
4. STORMWATER PIT 7/1 TO BE FITTED WITH OCEAN PROTECT JELLY FISH 15X CARTRIDGES.
5. STORMWATER PIT 6/1 AND 4/1 FITTED WITH OCEAN PROTECT OCEAN GUARD 200 MICRON.
6. THE DETAILS OF THE WATER QUALITY TREATMENT DEVICE(S) ARE TO BE COORDINATED DURING DETAIL DESIGN STAGE TO ACHIEVE THE NOMINAL ANNUAL POLLUTANT LOAD TARGETS.
7. EXTERNAL GRASSED VERGE AREAS TO BE MADE GOOD TO COUNCIL'S SATISFACTION.
8. GRAVEL AREA TO THE SOUTH-EAST OF THE SITE IS PROPOSED TO DRAIN TO A NEW IN-GROUND ABSORPTION SYSTEM. SOIL CONDUCTIVITY TEST SHOULD BE UNDERTAKEN BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE VOLUME AND SUITABILITY OF THE ABSORPTION SYSTEM DURING DETAIL DESIGN STAGE.

ABSORPTION TRENCH CALCULATIONS

PARRAMATTA CITY COUNCIL CALCULATIONS HAVE BEEN ADAPTED INDICATIVELY TO THE INFILTRATION / ABSORPTION SYSTEM. THE SOIL HYDRAULIC CONDUCTIVITY AND FINAL VOLUME TO BE CONFIRMED DURING DETAILED DESIGN.

PARRAMATTA CITY COUNCIL CALCULATIONS HAVE BEEN ADOPTED TO INDICATIVELY SIZE THE INFILTRATION / ABSORPTION SYSTEM. THE SOIL HYDRAULIC CONDUCTIVITY AND FINAL VOLUME TO BE CONFIRMED DURING DETAILED DESIGN.

MIN. 2.5 m³ ABSORPTION TRENCH VOLUME PROVIDED PER
100 m² IMPERVIOUS AREA.

IMPERVIOUS AREA (GRAVEL)= 1510.58 m²
VOLUME REQUIRED = 37.76 m³

ADOPT ATLANTIS FLO-CHANNEL SYSTEM.

VOLUME PROVIDED PER FLO-CHANNEL
= 0.12 m³

THEREFORE, PROVIDE MIN. 320 X UNITS FLO-CHANNEL

TITLE									
RICKABY STREET ALTERNATIVE STORMWATER OUTLET - SHEET 2									
SCALE	S.C.	DRAWN	S.C.	DESIGNED	R.X.	CHECKED	--	APPROVED	--
JOB No.				DRAWING No.			ISSUE		
8466000				SK004			P2		
DATE	June 2025		STATUS	DEVELOPMENT APPLICATION					

PRELIMINARY - NOT FOR CONSTRUCTION