

STX DENOTES SOAKAWAY TEST LOCATIONS

SOIL INFILTRATION RATE TEST NOTES:

1. SOIL INFILTRATION RATE TESTS WERE CARRIED OUT BY HSK / GUIDE CONSTRUCTION ON 16.07.2021.
2. THE TESTS WERE CARRIED OUT IN ACCORDANCE WITH THE METHOD DESCRIBED IN BRE DIGEST 365. SOAKAWAY TRIAL PIT DIMENSIONS WERE 1.5m LONG x 0.9m WIDE x 1.5m DEEP. PITS HAD VERTICAL SIDES TRIMMED SQUARE AND WERE MEASURED BEFORE THE SOAKAWAY TRIALS COMMENCED.
3. THE RESULTS OF THE INFILTRATION TESTS ARE PROVIDED IN THE APPENDICES OF THE ENGINEERING SERVICES REPORT. THE RESULTS INDICATE THAT, DUE TO THE EXISTING CLAY SOIL CONDITIONS, INFILTRATION ON THE WESTERN SIDE OF THE SITE IS POOR AND ONLY NOMINAL INFILTRATION IS ACHIEVABLE. THE INFILTRATION RATE ON THE EASTERN SIDE OF THE SITE IS SLIGHTLY BETTER, BUT THE UNDERLYING SOIL CONDITIONS ARE CLAY WHICH IS NOT GOOD MEDIA FOR INFILTRATION. THE RESULTS OF THE INFILTRATION TESTS AND GROUND CONDITIONS ARE CONSISTENT WITH OTHER INFILTRATION TESTS CARRIED OUT IN THE KINGSWOOD / CITYWEST AREA.



1 0054 INFILTRATION TEST LOCATIONS SCALE: 1:750

PROPOSED SURFACE WATER SEWER LAYOUT

- THERE IS NO PUBLIC SURFACE WATER SEWER ON THE OLD NAAS ROAD IN PROXIMITY TO THE SITE.
- INFILTRATION TESTS WERE CARRIED OUT ON THE SITE, REFER TO ADJACENT PLAN FOR TEST LOCATIONS. THE RESULTS INDICATE THAT, DUE TO THE EXISTING CLAY SOIL CONDITIONS, INFILTRATION IS POOR AND ONLY NOMINAL INFILTRATION IS ACHIEVABLE. AN ALLOWANCE HAS BEEN MADE IN THE SURFACE WATER DESIGN FOR INFILTRATION WHERE POSSIBLE, BUT IT IS NOT POSSIBLE TO DISCHARGE ALL SURFACE WATER TO THE GROUND VIA INFILTRATION.
- THEREFORE THE ONLY POSSIBLE SURFACE WATER OUTFALL FROM THE SITE IS VIA THE EXISTING WATERCOURSE TO THE EAST OF THE SITE.
- THE LOCATION OF THE WATERCOURSE IS NOT AT THE LOWEST PART OF THE SITE. THEREFORE THE GROUND LEVELS AT THE NORTH AND WEST PARTS OF THE SITE NEED TO BE RAISED ABOVE EXISTING GROUND LEVELS TO ACHIEVE AN OUTFALL BY GRAVITY TO THE ADJACENT WATERCOURSE.



2 0054 GROUND LEVELS TO BE RAISED TO ACHIEVE SURFACE WATER OUTFALL BY GRAVITY SCALE: 1:750

HOUSE AND GROUND LEVELS TO BE RAISED BY CIRCA 0.5 TO 1.5m ABOVE EXISTING GROUND LEVEL TO ACHIEVE OUTFALL TO EXISTING WATERCOURSE.

C01	AP	ISSUED FOR PLANNING	18.11.2021
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS:		ISSUED FOR PLANNING	
CHECKED BY:	REVIEWED BY:	APPROVED BY:	
RON	JM	JM	
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PROJECT: PROPOSED RESIDENTIAL DEVELOPMENT AT GORDON PARK
CLIENT: GREENWALK DEVELOPMENT LTD.
DRAWING TITLE: SITE CONSTRAINTS - SURFACE WATER

SCALE: 1:750 (A1)

PROJECT - DRAWING - VOLUME - LOCATION - TYPE - ROLE - NUMBER
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