

Job Number: 8240
Reference: 8240 – FN 001
Title: 26 Netherall Gardens- Response to BIA audit
Date: 3rd September 2019

Introduction

Sinclair Johnston Partners Ltd (now trading as Byrne Looby) prepared a revised basement impact for the proposed development at 26 Netherall Gardens. This was reviewed by Campbell Reith who prepared an Audit report ref 12985-51 rev D dated June 19. Appendix 2 of this report listed seven queries to be closed out. The responses top these queries are set out below.

Audit Query Tracker Responses

1 Utility information

The location of services and the 1mm settlement contour from the Ground movement assessment are shown on Sketch 8240 SK018. This shows that the services are outside the zone of influence of the basement works.

2 Outline construction programme

A construction sequence is shown in the Structural Design and Construction Statement. The anticipated start on site date is September 2020 with a twelve month programme to completion.

3 Assessment of overall change in elevation across the site

The design proposals allow for the changes in elevation and the GMA has incorporated these level changes into the modelling. The assessment shows that the impact on the existing retaining structures is negligible.

4 Indicative design of the secant wall

The initial design is based on 450mm diameter piles with pile lengths of 7.6m and 9.6m as set out on section 4.1.1 of the GMA.

5 Ground movement assessment

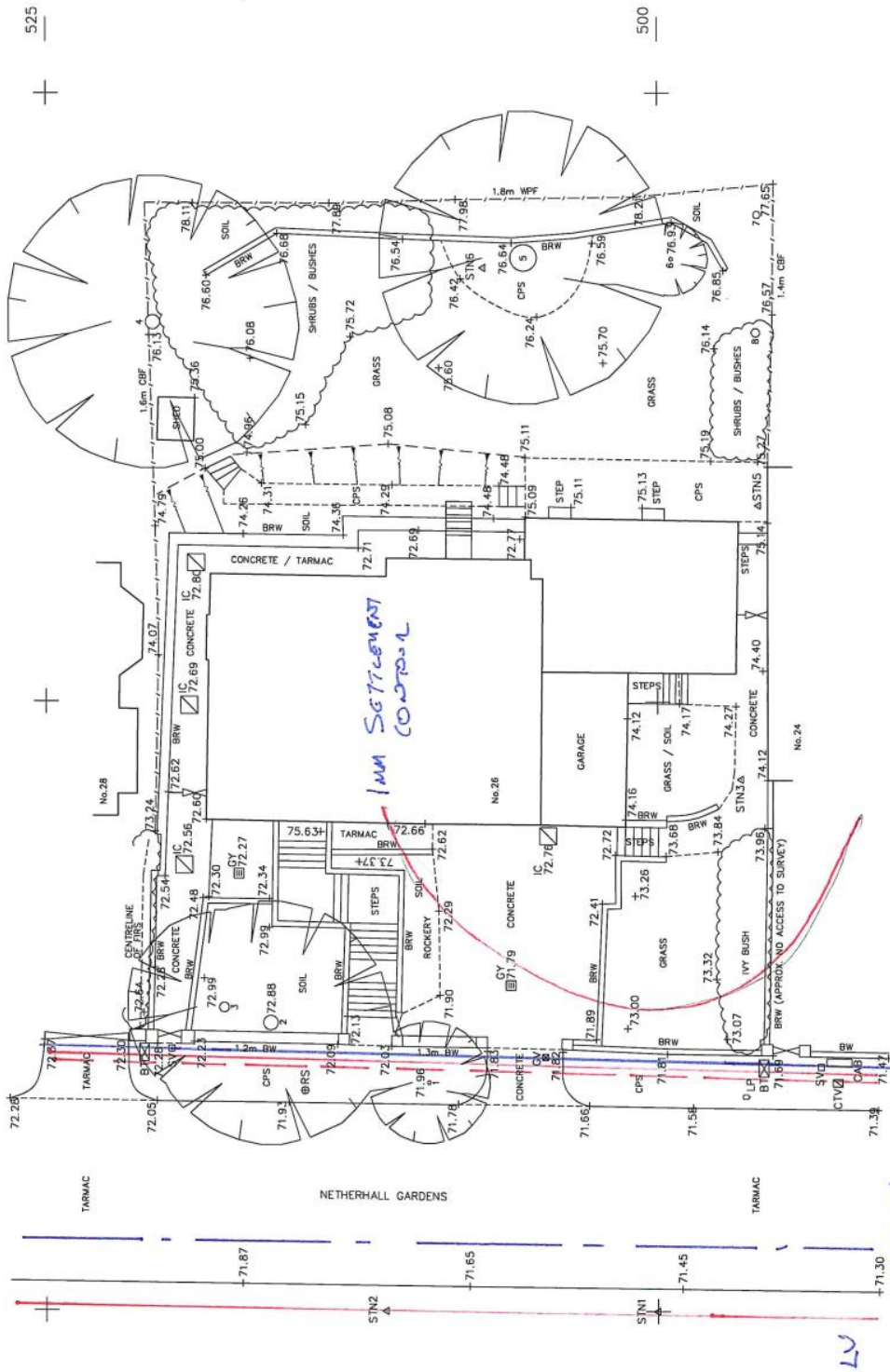
This has been updated to the revised basement layout.

6 Groundwater control strategy

The site investigation showed the ground to be clay overlain with made ground. This the excavations are expected to be dry. Any runoff from the made ground will be dealt with by sump and pump. Dewatering is not expected and so there should be no impact on ground movements.

7 Impermeable areas

The reduction in permeable area is around 80m². The impermeable area increases from around 470m² to 550m². Preliminary calculations show that the storage to provide attenuation for the additional flows would be less than 2m³ which can easily be accommodated within the hard landscaping area at the front of the house.



SERVICES AT 26 NETHERHALL
 GARDENS WITH 1MM
 SETTLEMENT CONTROL
 BYRNE LOOBY 22/8/19
 8240 SK018.