



HOUSE ADDITIONS - BEROWRA HEIGHTS

Date of Project: 7 January 2020

Client: Tom Hanson

Owner: Private Home Owner

Location:
46a Lonsdale Avenue,
Berowra Heights

Industry Sectors:

- Residential & Commercial Buildings
- Subdivisions & Municipal Works
- Manufacturing & Processing
- Infrastructure & Facilities

Service Type:

- Civil Engineering
- Structural Engineering
- Hydraulic Engineering
- Forensic Engineering
- Project Management
- Project Appraisal
- Construction Audit

Documents:

- Drawings
- Reports
- Certificates
- Audio Visual
- Maps
- Models



FTS was commissioned to design a retaining wall and stair access to the double garage with slab, services adjustments, assess slope stability and bearing strength of the steep rocky slope and design the house framing for the additions. FTS also provided access plans to the garage for Council approval because of the shared access on this battleaxe block shared with three other properties. Roof and site drainage were also detailed.



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For Further Information Please Contact Us



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Slippage, poor connections, splitting,
dislocation and separations all contrib-
uting to the roof sagging and leaking.

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FTS designed and inspected all the timber framing and foundations..

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Excavation was required to open up the car space to provide for two car spots and relocation of the services was incorporated into the design (sewer, water, power, communications and drainage).



FTS organized to have the exposed rock and services assessed by JK Geotechnics following the exposure of a remnant clay seam within the rock layers.

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Accessibility constraints and services relocations made for a challenging site design.

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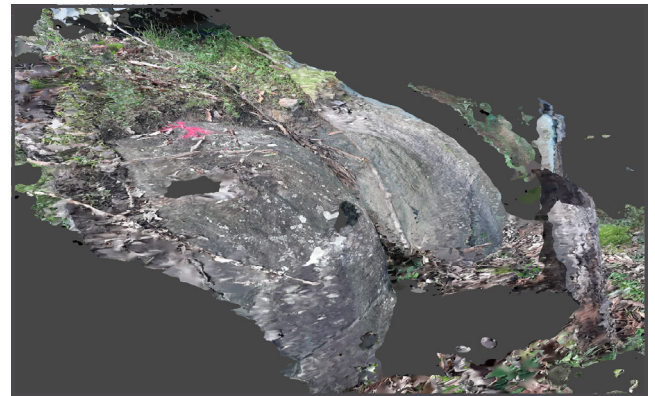
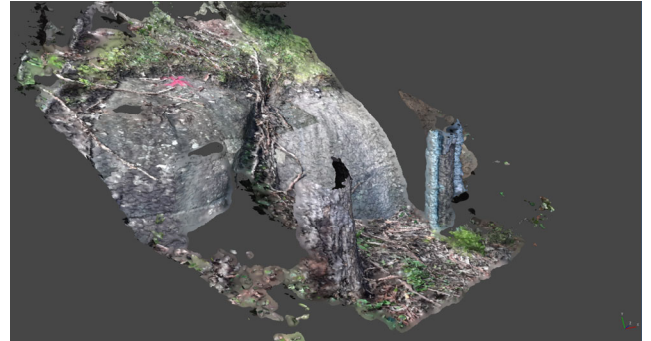
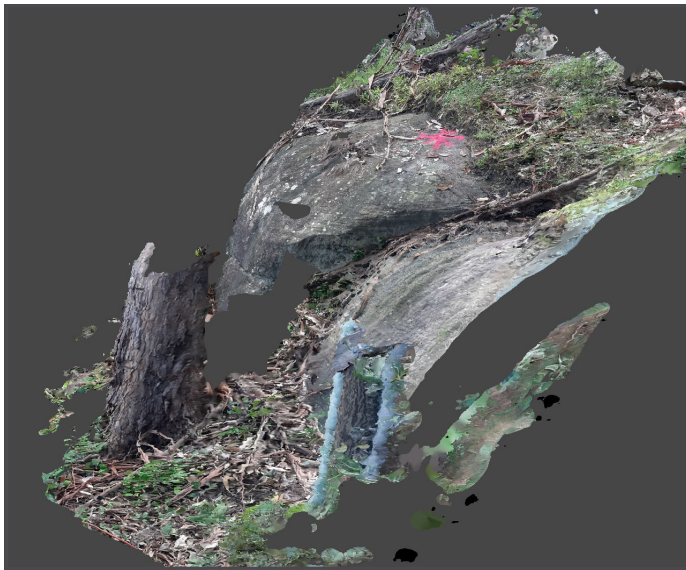
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Photogrammetry was used to create 3 dimensional digital models of critical terrain components for analysis during the works. For example, the model was used to obtain profiles and sections rather than multiple visits by the surveyor as the design progressed. This assisted discussions between the consultants about how best to coordinate the design with the site constraints especially during the Covid 19 lockdown.

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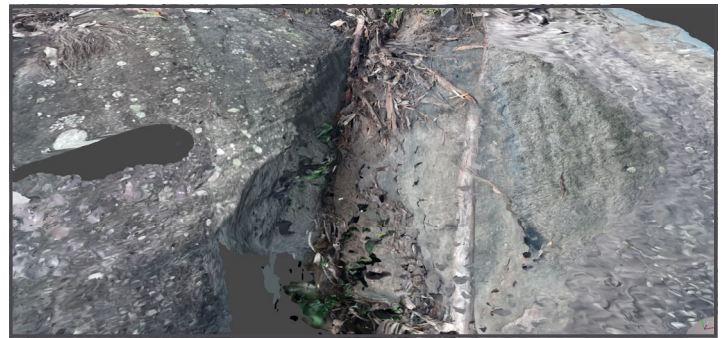
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Photogrammetry was used to inspect rock face and check measurement of strata seam thickness.



Photogrammetry was used to inspect rock joints to assess root impact and potential destabilization of boulders.



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