

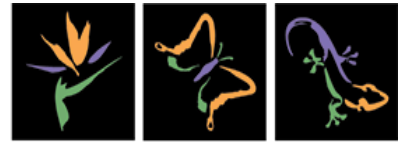


ENGINEERING
PROCUREMENT
MANAGEMENT

SANBI

Biodiversity for Life

South African National Biodiversity Institute



SANBI PROJECTS (NZG, MBC & TBG)

**SITE NAME: THOHOYANDOU BOTANICAL
GARDEN**

PROJECT NUMBER: 34398.01

PROJECT NAME: NEW ELEVATED WALKWAY

FINISHING SCHEDULE

34398-01-611-05-01

REV. B

17 September 2021

APPROVALS:

NAME	ROLE	DATE	SIGNATURE
	Program Manager		
	Project Manager		
	Engineering Manager		
Desmond Brand	Principle Agent & Architect		



1. NEW ELEVATED WALKWAY

1.1 GENERAL

New elevated walkway will be located between the existing walking trail through the existing vegetation to an existing servitude clearance on site. The walkway will also cross an existing stream.

Existing vegetation that needs to be removed to accommodate the new walkway will need to be tagged on site and approval to remove the vegetation to be confirmed with the Client.

No tree branches are to be removed without the approval received from the Client.

Existing vegetation in the vicinity of the new walkway to be properly protected from any damage.

Existing Walking Trail pavers to be levelled out in areas to ensure a level area provided to the walkway.

All timber poles to be in accordance with SANS 457.

To be read in conjunction with the Structural Engineers drawings and specifications.

1.2 ELEVATED WALKWAY STRUCTURE

1.2.1 Column bases:

New reinforced concrete column bases in accordance with the Structural Engineers drawings and specifications.

Exposed areas to be finish off smoothly, rubbed down and cleaned.

1.2.2 Timber Columns:

Timber pole columns: All new timber poles as per the Structural Engineers specification. Black carriage bolts to be installed to joints as per Structural Engineers specification.

Timber poles to be minimum Class H3 Tanalised treated.

All cut surfaces to be treated/coated with Powafix or similar approved Green Enseal.

All poles to be prepared and cleaned of any loose bark.



All surfaces to be treated/coated with two coats Powafix Waksol or similar approved timber sealer.

Timber columns to be capped with a purpose made fibre glass cap fixed to the timber pole exposed to end as per detail.

Treatment of timber pole bases in concrete foundations as per Structural Engineers specification.

Timber pole Cross Bracing: All new timber poles as per the Structural Engineers specification. Black carriage bolts to be installed to joints as per Structural Engineers specification.

Timber poles to be minimum Class H3 Tanalised treated.

All cut surfaces to be treated/coated with Powafix or similar approved Green Enseal.

All poles to be prepared and cleaned of any loose bark.

All surfaces to be treated/coated with two coats Powafix Waksol or similar approved timber sealer.

1.2.3 Timber Balustrades Structure:

New timber balustrade horizontal supporting pole structure as per Structural Engineers specification.

New timber pole top and bottom horizontal balustrade pole rails to be installed and fixed to the main pole structure with splayed joints as required support columns and bolted with black carriage bolts to the timber pole uprights as before. Refer Structural Engineers specifications.

All new timber poles to be minimum Class H3 Tanalised treated.

All cut surfaces to be treated/coated with Powafix or similar approved Green Enseal.

All poles to be prepared and cleaned of any loose bark.

All surfaces to be treated/coated with two coats Powafix Waksol or similar approved timber sealer.

1.2.4 Balustrade:

New Timber Handrail Laths: New timber laths to match existing.



Fix timber laths with openings between laths not exceeding 100 mm to new horizontal timber pole balustrade support structure with screws .

Height 1 000 mm above walkway surface in terms of SANS 10 400.

50 mm diameter timber laths to be minimum Class H3 Tanalised treated.

All cut surfaces to be treated/coated with Powafix or similar approved Green Enseal.

All timber laths to be prepared and cleaned of any loose bark.

All surfaces to be treated/coated with two coats Powafix Waksol or similar approved timber sealer.

Fix to top and bottom rails with Eureka or similar approved 6,0 x 100 mm cut screws with smooth shank with 6.0 x 19 mm EPDM bonded washer , holes to be predrilled in the 50 mm diameter balustrade sections as required.

Composite wood picket colour – to be confirmed by Architects.

1.1.1 Walkway:

New Best Deck Diamond Range or similar approved composite wood grain decking plank walkway system fixed to treated timber pole substructure as per Structural Engineers specification.

Sub structure to be plained to accommodate a level surface for fixing of composite decking in accordance with the manufactures specifications.

Composite walkway deck planks to be fixed to the support structure with standard black Teflon or similar approved clips in accordance with the manufacturers specification.

5 mm gap to be provided between deck planks to accommodate movement in accordance with the manufactures specification.

Composite wood plank colour – to be confirmed by Architects.