CONSTRUCTION METHODOLOGY PLAN – S4.55 VARIOUS AMENDMENTS

7 ROCK BATH ROAD, PALM BEACH 2108

April 2025

1. INTRODUCTION

This Construction Methodology Plan has been prepared to address the proposed modifications to the existing residential dwelling, including a nominal increase in the height of the master bedroom chimney by 136mm, a nominal reduction in the external sandstone retaining wall, an extension of the Vergola to the north of the terrace, the addition of external operable sunshades to the living room and Vergola, and the removal of a window from the design on the south facade. The construction methodology outlined below ensures that these modifications are executed efficiently while maintaining structural integrity and compliance with relevant codes and regulations.

1.2 **CONSTRUCTION METHODOLOGY SCOPE**

The construction procedures identified below outline feasible methods to implement the proposed modifications while minimizing impact on the existing structure and surrounding environment. The scope of work considers safety, access, structural stability, and adherence to engineering requirements.

1.2.1 Chimney Height Increase

- The existing master bedroom chimney will be extended by nominal 136mm using materials (Brick and Sandstone Cladding) that match the existing structure.
- Temporary scaffolding has been erected to allow safe access for masonry work.
- The additional height will be constructed with brickwork in accordance with the structural engineers' requirements and specifications.
- No change in construction methodology from previous DA approval.

1.2.2 External Sandstone Blade Wall Reduction in Height.

- The external sandstone retaining wall has been nominally reduced in height.
- The structural wall has been constructed using Dincel as per the engineers requirements.
- Prior to pouring the concrete infill the Dincel will be cut down to the revised height off a mobile scaffold tower.
- The Wall will be clad in Sandstone off temporary scaffolding (above 3m) or a mobile scaffold tower. Access will be always provided along the western boundary of site. The scaffolding will not encroach the boundary of the site.

1.2.3 Extension of Vergola to North of Terrace

- The Vergola is extending north by 1532mm. Structural design for the extension has been confirmed with the engineer.
- Steel PFC beams running E/W have increased in length and weight nominally.
- Installation of steel beams will be by mobile crane. Appropriate council permits will be gained for standing plant and deliveries.
- Access will be provided via mobile scaffold towers and platform ladders.

- Footings and supports for the extended portion will be installed per engineering recommendations. No Demolition is expected to be required.
- Holding down bolts will be drilled and epoxy fixed into the concrete slab. Appropriate PPE and dust control will be used.
- Construction methodology is unchanged from the previous DA approval.

1.2.4 Addition of External Operable Sunshades

- External operable sunshades will be installed on the living room facade and the Vergola structure.
- Temporary scaffolding will be provided for the installation of the blinds over 3m. Below 3m installation will be via mobile tower.
- Structural fixings will be anchored to ensure stability against wind loads – A wind sensor will be installed to automatically raise the blinds if high winds occur.
- The sunshades will be motorized as specified, with wiring and controls integrated into the existing system.

1.2.5 Removal of proposed new Window on South Facade

- The existing brick work will be retained.
- Structural integrity of the wall will be maintained by not introducing another penetration to the existing brick wall.
- Any necessary insulation or waterproofing measures will be implemented.
- Construction methodology is unchanged from the previous DA approval.

1.3 SUMMARY

The proposed modifications result in nominal changes to the previously approved construction methodology. The design addresses key safety and constructability requirements. The construction process will adhere to all relevant building codes and best practices, ensuring minimal disruption to the surrounding environment and occupants.