**Our Ref: E3084-JML20-060068**

06 Jul 2020

**Built Pty Ltd**
Level 7, 343 George Street
Sydney
NSW 2000

**Attn: Michael Hamilton**

Dear Sir,

**E3084: Sandstone Precinct, Education Building**
**Subcontract No: 200996-D&C-011**
**Changes to MOD 9**

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As advised by Built, changes to the MOD 9 have occurred which will be incorporated into the latest design. The following list highlights those changes which are Architectural or Building Performance requirements that will require the External Façade works provided by JMLC to be adjusted to suit.

1. The louvres adjacent to the guest lift core (FTE03b) on the West courtyard elevation have been recessed into the façade and are covered by perforated cladding to conceal the louvres and maintain design intent.
2. The glass spandrels next to the louvres in item 1 (only on levels 5-8 of FTE03b) have changed from glass to recessed louvres covered by perforated cladding in order to match the adjacent louvres and maintain design intent.
3. The remaining glass spandrels next to the guest lift core (FTE03b) on the west courtyard elevation have changed to perforated cladding with backpans behind to retain a consistency in the design of the spandrel panels across the West courtyard façade.
4. The louvres on level 9 Western elevation of the courtyard (FTE09) have been replaced by glass spandrels to maintain design intent in the courtyard. They have relocated to the external elevation of the external façade (FTE11 – Loftus Street face) and are covered by perforated fluted cladding to conceal the mechanical louvres.
5. The louvres on level 9 East elevation of the courtyard (FTE09) have been replaced by glass spandrels to avoid any visible louvres on the glass facade. To avoid visible louvers on the full height glass facade, the required louvres have been located to the furthest north glass panels of the east elevation. The proprietary mechanical louvres are concealed by perforated fluted cladding which matches the level 9 cooling tower facade adjacent.
6. Two awning panels have been removed on every level on the East courtyard elevation from levels 2-

7 (one on each side of current awnings – 2 awnings on 6 levels = 12 awning panels removed) and a new awning consisting of 10 panels has been introduced In order to retain the same design language as the lower levels and to complete the 'mirrored' glass box concept' an awning was introduced to level 8.

7. The louvres on level 2 of the Eastern elevation of the courtyard (FTE03b) have each moved one panel to the right to create symmetry and even airflow through the level 2 corridor.

8. The Northern external face of the façade (FTE11) has changed from fluted perforated cladding to fluted solid cladding, as the plant room does not require the North side to be perforated for air flow.

9. The plant room door on level 9 of the external Eastern elevation of the façade (FTE10) has been relocated a few panels South due to the internal room layout. The louvres have been relocated slightly North and are laid over 7 panels on their side. They are also covered by perforated fluted cladding to conceal the mechanical louvres and maintain the design intent.

10. Louvres have been introduced to the Northern and Southern faces of the guest lift core from levels 5-9 due to design development for air flow purposes and are covered behind perforated cladding to conceal the mechanical louvres and match the design of the East face of the lift core on level 2.

11. The internal corners of the courtyard on the west elevation have changed from curved glass corners to squared glass corners as the 1500mm curved glass radius would have clashed with the louvres.

12. The radius of the all curved glass and cladding to the internal courtyard (FTE03) and all external façade (FTE08 & FTE11) has changed to 1500mm, as the previous glass radius could not physically be made with the low e coating by any supplier/manufacturer globally. This has also forced the mullion set out to change in these areas, with the mullions around each curved glass corner shuffling slightly with minimal visual impact to fit the new glass size.

To further elaborate on item 12, We write to notify you that the original Sandstone Precinct, Project Architectural Intent requires curved Insulated Glazed Units to be incorporated into the external perimeter of the External Facades at levels 6-8 (FTE08 curved glass) and level 9 North (FTE11 Cladding). Internal Façade – Levels 2-8 (FTE03 curved glass). The curved Insulated Glass Units in question has been detailed within the Architectural intent with a radius of 600 and stipulated to meet certain modulations with dimensional widths to match the corresponding Insulated Glazed Units.

We have investigated the requirement with the leading Glass manufacturers within the Architectural Glass Industry and confirm that the due to the sizes requested the manufactures are restricted and heavily controlled with their production constraints due to the following:

- Overall dimensional width of the glass panes required to produce the Insulated Glazed Units within their Heat Strengthening ovens. Current Architectural dimensional design is too wide to enter the ovens.
- Overall height of the final radius of the curved glass panes as they enter the Heat Strengthening ovens. Arc width of 600 radius glass creates a curvature too large to enter the ovens
- Production restrictions to produce the required dimensional straight legs from the curved glass pane to meet the current Architectural dimensions, results in an increase in overall tolerances

which would not be compatible with the curtain wall system supporting the Insulated Glazed Units.

Due to the above constraints, JML-Craft have advised that the Architectural intent sizes and radius will need to be reduced to meet production capabilities of the Glass Manufactures. These dimensional changes will result in the current mullion locations moving to accommodate new panel modulations.

We hope that the above answers any questions that may arise from the necessary changes to the current Architectural intent.

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Regards

Andrew Turnbull
Project Director

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