

Section A-A'

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CRISPY PARK

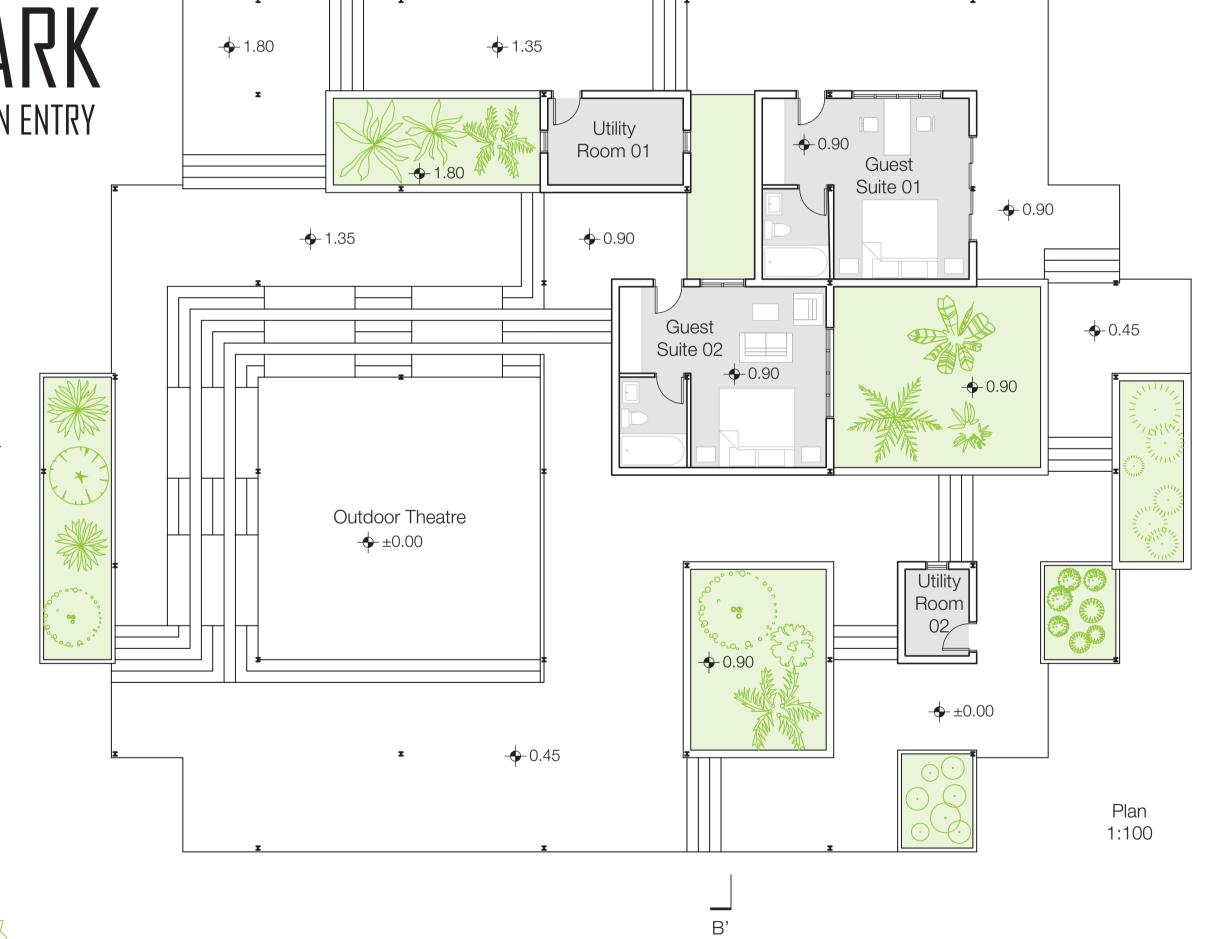
LAGI2025 FIJI COMPETITION ENTRY

The proposed solar array and community space installation in Fiji is designed to minimize disruption to natural ecosystems while delivering renewable energy and communal benefits. The project's footprint, measuring approximately 30x22.7 meters, is intentionally compact to preserve existing vegetation, with no trees slated for removal. Three clusters of trees surrounding the site will remain intact, maintaining habitat continuity and reducing soil erosion risks. The elevated PV array, positioned on steel space trusses, allows sunlight to reach the ground through strategically hollowed sec-

tions, supporting understory plant growth in landscaped areas below. Native species will be prioritized for planting, fostering local biodiversity and creating microhabitats for insects

and small fauna.

However, certain aspects of the installation require careful consideration to mitigate potential ecological impacts. During construction, soil disturbance from foundation work and material delivery could temporarily affect soil structure and nearby root systems. To address this, the prototyping phase will occur offsite, minimizing on-site construction errors and reducing the duration of ground-level activity. Prefabricated components will be assembled with precision in controlled factory conditions, limiting the need for heavy machinery at the



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final location. Additionally, permeable stone paving and gravel plants, ensuring ecological continuity. The design also avoids pathways will be used to promote natural water infiltration, impermeable surfaces in planting areas, allowing rainwater ing-such as stone, timber, and vegetation-reduces transmitigating runoff that could otherwise alter soil composition or to nourish greenery and reducing the risk of localized drying. portation-related emissions and supports ecosystem preserharm adjacent vegetation.

hollowed design, may still influence light-dependent species guarding surrounding ecosystems from secondary damage newable energy goals with the preservation of Fiji's natural in the immediate area. To counter this, the landscaped zones caused by structural failure. beneath the panels will incorporate shade-tolerant native

Furthermore, the structure's cyclone-resistant engineering— vation by avoiding invasive species introduction. By integrating featuring truncated corners and wind-optimized geometry— community stewardship into maintenance protocols, the in-The PV array's shading effect, while partially offset by its prevents debris displacement during extreme weather, safe-stallation ensures long-term ecological oversight, aligning re-

Finally, the project's emphasis on local material sourclandscapes.

