

Medical Clinic at Mission TwentyFive35 Vocational Village – Dominican Republic



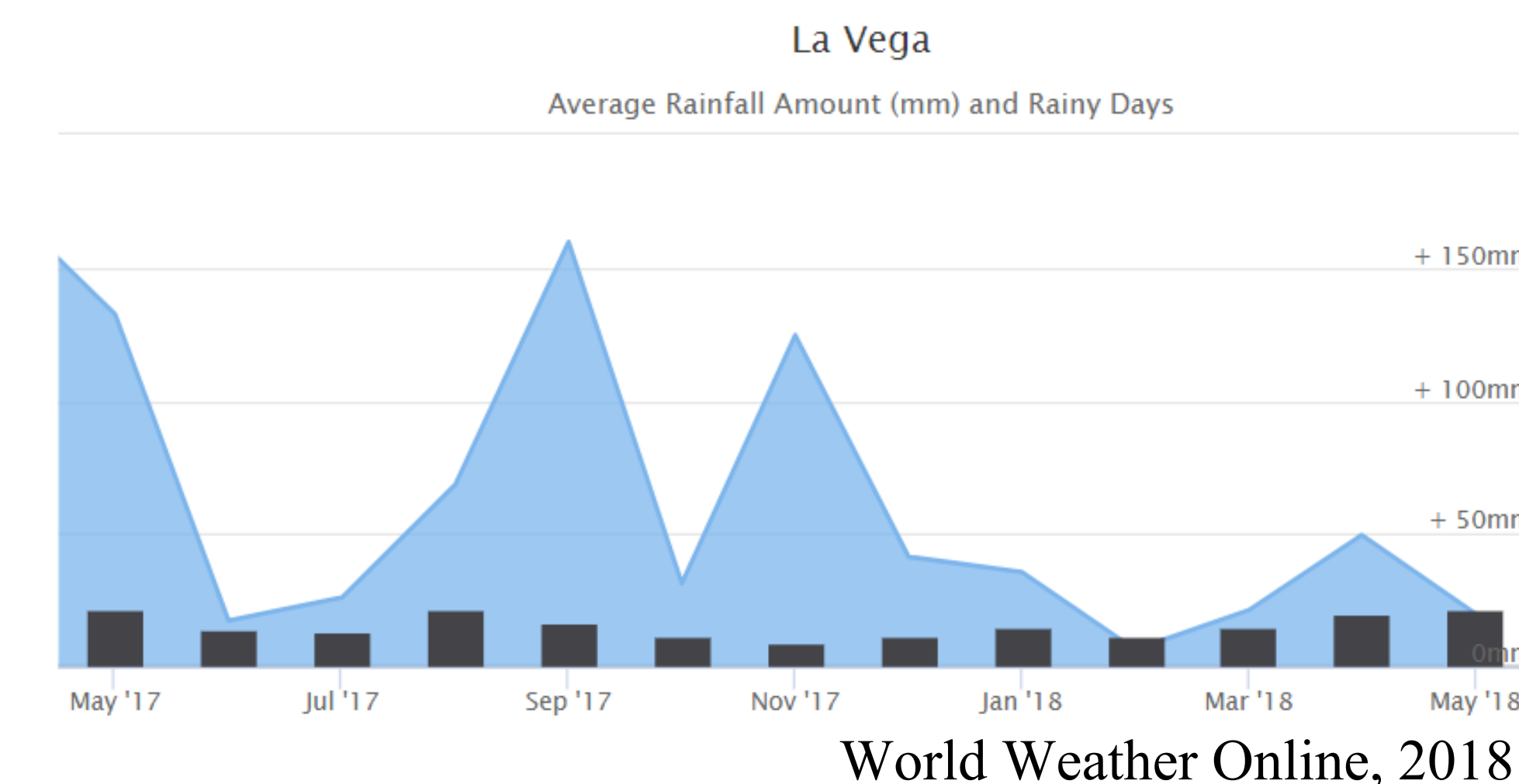
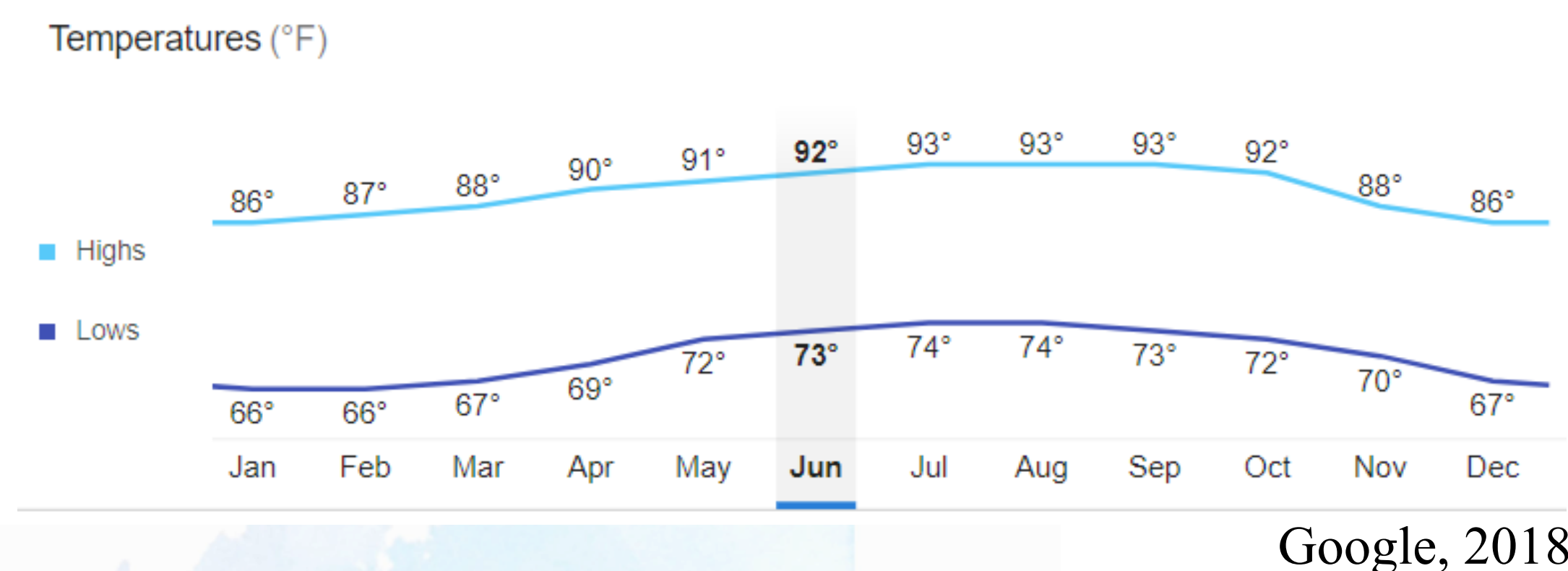
Abstract:

This community medical clinic will be the first of its kind in the rural town of Villa Tapia, Dominican Republic. It is Phase II of a five-phase master plan drafted by religious organization Mission Twenty-Five35, founded by the Romano family. The team consists of Cal Poly undergraduate students: Griffin Chierici (Architecture), Erica Croft and Tommy Sidebottom (Architectural Engineering), and Sarah De Los Reyes (Construction Management), backed by the guidance and support of non-profit organization Journeyman International and A/E firm Smith Group JJR. The task was to design a clinic that would serve as a pediatric and urgent care center but also a place for education. The main goal is sustainability, using solar panels and passive heating and cooling just to name a few. Concrete masonry, steel, and brick make up most of the building elements, with an emphasis of recycled material through the design of a gabion wall. In a location that is prone to earthquakes and hurricanes, it is just as important that this building can withstand great lateral forces too. Overall, the clinic will provide much needed help in the region where currently the ill need to travel to the island's capital for care.

Key Words: Clinic, Dominican Republic, Sustainability, Gabion Wall, Photovoltaic



Top: The cropland owned by Mission TwentyFive35 that will soon be the location of a new medical clinic



Top: Floor plan shows plenty of mosquito repellent plants to combat humid weather.

Right: Rendering showing "rural resilience" in action



Deliverables:

- Soils Analysis
- Utilities Analysis
- SWPPP
- Hazards & Risk Mitigation Assessment
- Site Safety Plan
- Site Logistics Plan
- Quantity Takeoff
- Project Schedule
- Conceptual Estimate
- Feasibility Analysis

Sarah De Los Reyes
Cal Poly Construction Management
sdelosre@calpoly.edu

