## **Bullet Train Passenger Station Brazos Valley**



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This proposal for a passenger station in the Brazos Valley has two option locations; the City of Waller and Roan's Prairie. Texas has a long history of being a safe haven for many cultures, creating a melting pot and making it home to many. It also stands strong and independent in times of crisis. The design binds the new culture of the station with the rural area. The station is designed to evolve as future development arises, to provide an experience that is uniquely Texan. This sustainable station will be a home and a safe haven to all who visit and become available for use during an emergency evacuation. The building can withstand hurricane weather; with wind resistant windows, main equipment and upscale hotel on the upper levels (above any flooding), along with off-grid renewable energy back-ups.The Station's sustainability goals and metrics are designed to meet The Living Building Challenge's guidelines. These guidelines include; use of native Texas materials, glue-laminated wood framing structure, water and energy efficient features. The station design was driven by ideas of Biomimicry. In the same way that the white Quiver tree keeps cool by reflecting the heat while still absorbing energy from the sun, this station will use a white roof with a full solar panel array that absorbs the sun energy while reflecting away the heat. The station will have four levels of program and hotel (south wing). Passengers board or depart from a centralized circulation core at the second (Dallas) and third (Houston) level. The second level includes a gallery, restaurant, and business center, while the third has a ballroom and a gym. The fourth level contains an arcade with access to the roof deck. The first level serves parking, car rental, main lobby, souvenir shop and farmer's market.





Solar pannel shading divisor soaks up the energy from the sun, while reflecting of the heat and light









West Elevation



Interior Lounging Area



Houston Platform