CASE STUDY

OFF-GRID MODULAR RESTROOM

KEY FACTS

PROJECT NAME
Off-Grid Modular Restroom

LOCATION
Midwestern USA

SUNBELT FACILITY
Whitley Manufacturing, *A Sunbelt Company*

PROJECT TYPE
Government Restroom Facility

BUILDING SIZE
154 sq. ft.

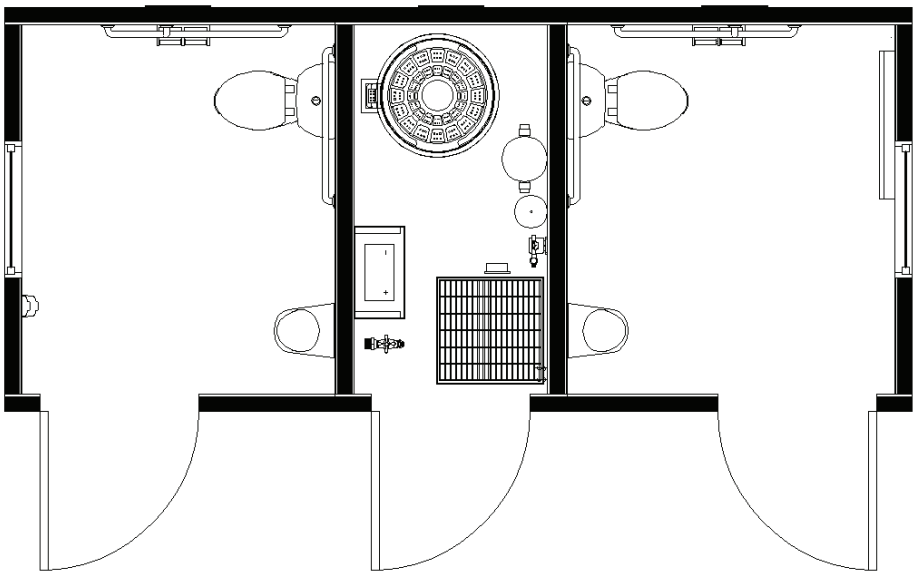
UNITS
1 permanent modular restroom

A need arose for a fully off-grid modular restroom facility to support community park users while promoting sustainability. The city required a structure capable of withstanding the local area's rigorous climate while operating independently from traditional utilities.

Whitley Manufacturing designed and delivered a 154-square-foot modular building powered by solar panels, supported with battery storage, and equipped with a rainwater collection system. The unit includes an all-gender restroom, vault access, and an SMS-based vault alert system for remote monitoring. The project's complete offsite fabrication ensured faster installation and minimized disruption to the park.

The finished facility balances innovation and durability, offering ADA-compliant access, energy efficiency, and sustainable design features. By combining renewable energy systems with modular construction, this area now benefits from a modern, eco-friendly solution that can be replicated in other communities.

OFF-GRID MODULAR RESTROOM



KEY ACHIEVEMENTS

154 sq. ft. off-grid restroom facility delivered capable of withstanding a rigorous climate

Fully sustainable design independent of traditional utilities

Rapid offsite fabrication with minimal park disruption

Replicable solution for other community parks

BUILDING FLOOR PLAN HIGHLIGHTS

-Solar panels with battery storage for off-grid power

-Rainwater collection system for sustainable water use

-All-gender ADA-compliant restroom

-SMS-based vault alert system for remote monitoring

-Constructed entirely offsite for rapid installation

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