Fresh Water
60,000 Gal. captured / Year
Roof water (A) and atmospheric generated water is captured, filtered and stored in a pair of 3,000 Gal. tanks (B) for potable water use in the interior Plumbing Modules. Backup water is supplied from the nearby well (C).

Grey Water
40,000 Gal. captured / Year
Grey water from showers, sinks and the black water solar still is collected, filtered and stored in a 3,000 Gal. tank (D). Grey water supplies toilets and irrigation (E).

Black Water
1,000,000 Gal. treated / Year
Black water from toilets and other plumbing fixtures (F) is treated in a multi-stage process. An advanced bioreactor treats the water to tertiary standards. The output is pumped to a solar still on the Black Water module roof. The treated water evaporates and the clean moisture is captured by atmospheric water generators filtered and supplied to the fresh water module (G). Excess treated water is supplied to the Grey Water Module. The Bioreactor is emptied once a month as supply for composting units (H).

Food Production
(3) Food production modules provide fruits and vegetables for the Kitchen in the Starship (I). These greenhouses are placed on top of storage or composting units.

Solid Waste
Kitchen scraps and output from the Bio-reactors are combined in 2 composting units (6-8 week processing time each) (J). Recycling waste is sorted in the solid waste module (K) for use in the community.

Power
240,000 kWh / Year
Power is generated from a series of (10) 2kW PV arrays mounted to infrastructure module roofs and supplemented with (2) 36 kW solar tracker PV arrays mounted on mobile trailers. Solar Electricity is collected (L) and stored in (2) battery modules (600 kWh storage) (M) to power the Starship.

Construction Sequence
1. Concrete Ballast Pads & Wagon Wheel substructure laid
2. Rock n' Roll Trusses & Geodesic Dome erected on the platform
3. Tensile Fabric Roof installed
4. Roof lifted into place; Container Modules installed

Infrastructure Modules

Site Plan Notes:
1. Entry Farm Rd, Rte. 38 on the existing drive.
2. Road to Northern Fly Ranch
3. Road to Southern Fly Ranch
4. Entry Plaza
5. Open space
6. Campsites
7. Infrastructure modules