

Project

Snapshot

- As-of date: February 18, 2026
- Install milestone: May 7, 2026
- Mission: build a reliable off-grid camper workspace suitable for full-time professional use

Fixed constraints

- Truck platform is fixed: 2021 F-350 Regular Cab Long Bed
- Existing truck modifications are fixed: 2.5" lift, 37" tires, 4.88 regear
- Camper delivery/install readiness date is fixed: May 7, 2026

Objectives

- Support standard workdays without power anxiety
- Maintain reliable internet for meetings and high-value workflow tasks
- Provide ergonomic, repeatable workstation setup
- Keep system serviceable and safe in multi-climate travel use

Scope

- In scope: electrical, charging, solar, communications, interior structure/cabinetry, operations process, maintenance tracking
- Out of scope for phase 1: non-critical aesthetic upgrades and major unrelated truck mechanical projects

Requirements baseline (draft)

- Workday autonomy target: modeled profiles (BOM loads + owner-supplied office loads) indicate 3,530 Wh/day (core_workday) and 4,202 Wh/day (winter_workday); battery reserve floor policy is 20% minimum SOC
- Connectivity reliability target: Starlink is planned primary path; fallback strategy still TBD
- Thermal comfort and electronics protection limits: TBD
- System safety requirements: fusing, disconnects, wire protection, labeling, service access

Workbook intake (from Camper Build.xlsx , imported 2026-02-11)

- Current camper config notes indicate Hiatus base model with vertical lower frame, double back doors, additional windows, Maxxair fan, and overhead LEDs.
- Consult note indicates "Into production 3rd week of February" and that delivery timeline adherence was reported as strong.
- Cabover reference captured: approximately 41 in .
- Truck config in workbook matches fixed constants: 2021 F-350, 8 ft bed.

Scope clarifications from workbook

- In scope for Phase 1 includes office-first electrical architecture, Starlink support, cabinetry/workstation, and core plumbing.
- Truck mechanical upgrades listed as "skip for now" remain out of scope for Phase 1.
- Several passthrough decisions (solar, shore power, diesel/propane routing) are still pending and tracked in docs/TRACKING.md .

Milestone plan (draft)

- M0: requirements baseline frozen
- M1: system architecture selected (electrical + comms + thermal)
- M2: BOM v1 complete and procurement started
- M3: CAD fit checks and wiring route plan complete
- M4: subsystem bench validation complete
- M5: install-readiness checklist complete
- M6: install date (May 7, 2026)
- M7: shakedown and punch-list closure

Build sequencing baseline (as-of 2026-02-16)

- Build sequencing is now tracked as an overlapping phase plan (not strict serial trades).
- Target install date remains fixed at May 7, 2026 (80 days from this baseline date).

- Accelerated procurement phase (Batch A+) is active in `bom/bom_estimated_items.csv` with core electrical plus bench-build wiring/consumables pulled into February 16 to February 21.
- Detailed stage-by-stage order of operations, dependencies, and draft date windows:
- `docs/PROJECT_build_order_of_operations.md`

Immediate next decisions

- Execute Batch A+ purchase wave and capture vendor/ETA status for rows 3 , 4 , 5 , 6 , 7 , 10 , 11 , 12 , 16 , 17 , 18 , 20 , 21 , 22 , 23 , 26 , 27 , 28 through 45 , 52 , 53 , 60 , 117
- Validate the full fuse schedule against final holder/SKU selections and cart contents for the locked Lynx architecture
- Validate shared 12V bus behavior (Orion + buffer battery) including F-11 and SW-12V-BATT service isolation behavior under office/galley USB station loads
- Freeze autonomy policy using modeled profiles (BOM + owner-supplied office loads) with a 20% minimum SOC reserve floor
- Confirm passthrough locations (solar, shore, fuel/heater routing) with Hiatus before production lock
- Lock hardwall-popup solar jumper approach details (connector family, passthrough hardware SKU, and service-loop length for roof travel)
- Validate Sterling BB1248120 + BBR current-limit operating envelope on the factory 240A alternator; keep Mechman 370A alternator + Big 3 as purchase-later path pending fitment confirmation and install timing
- Choose final solar panel type (flex vs rigid)
- Lock interior/exterior T-slot or strut mounting ecosystem and bracket/accessory interface standard