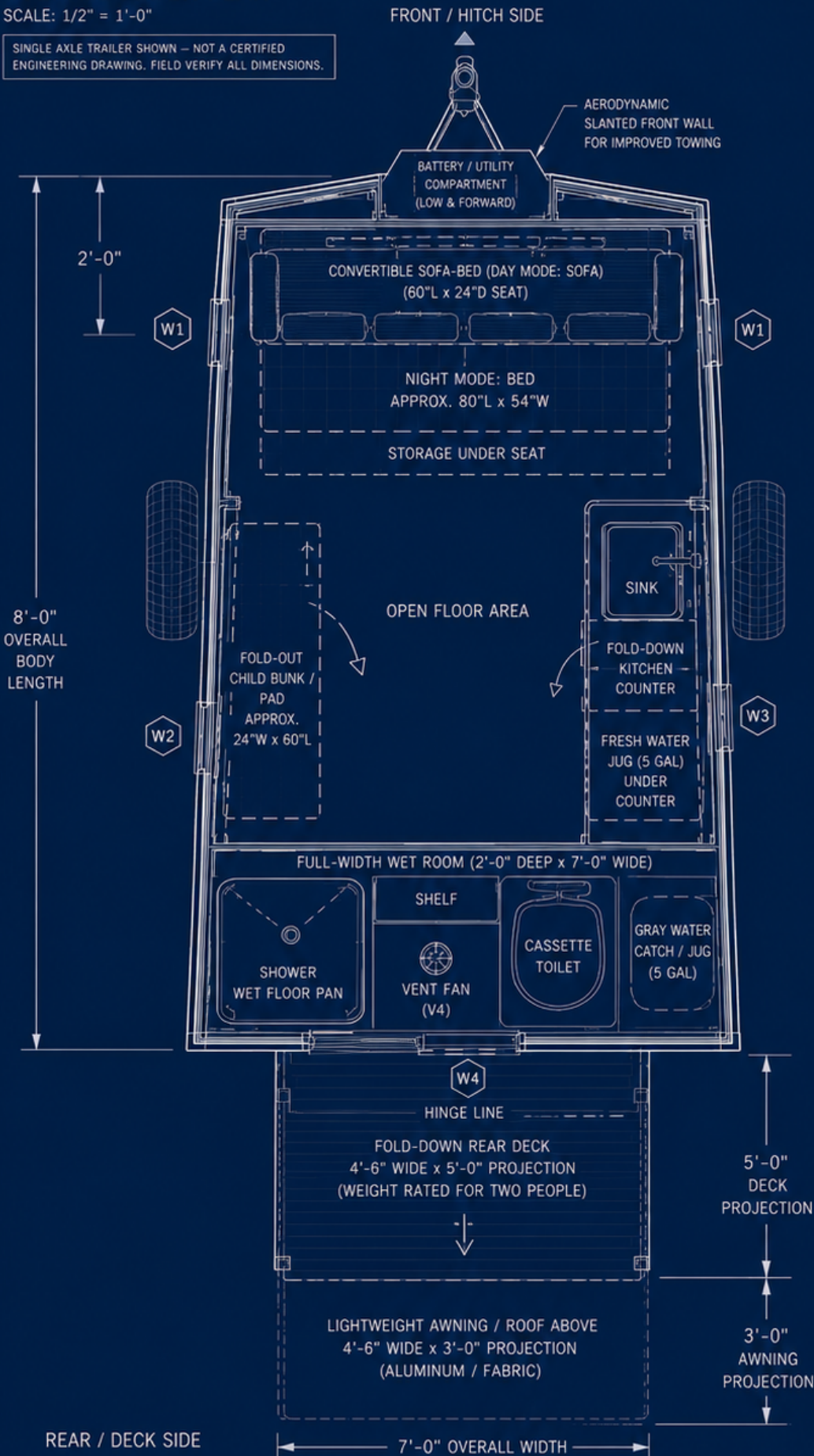


OVERALL FLOOR PLAN

SCALE: 1/2" = 1'-0"

SINGLE AXLE TRAILER SHOWN – NOT A CERTIFIED
ENGINEERING DRAWING. FIELD VERIFY ALL DIMENSIONS.



KEY NOTES

- Wet room relocated to the REAR to separate the main sleeping area from the toilet and gray-water catch.
- Convertible sofa-bed at front keeps sleeping area farthest from wet room.
- Day mode: sofa. Night mode: bed (approx. 80"L x 54"W) with storage under seat.
- Open central floor area for flexibility.
- Fold-out child bunk/pad on driver side wall.
- Fold-down kitchen counter on passenger side with sink and fresh water jug under counter.
- Full-width wet room at rear contains shower, cassette toilet, shelf, vent fan, and gray-water catch / jug.

LEGEND

- WALLS (2x2 OR 2x3 FRAMING)
- CABINETRY / FIXTURES
- OVERHEAD / UPPER STORAGE
- FOLD-DOWN / MOVABLE ITEM
- DOOR / OPENING
- ROOF VENT
- WINDOW TAG (SEE SCHEDULE)
- VENT / FAN

WINDOW & VENT SCHEDULE

TAG	TYPE / SIZE (NOM.)	LOCATION	QTY.
W1	24" x 12" SLIDER	FRONT LEFT	1
W2	24" x 12" SLIDER	LEFT SIDE	1
W3	24" x 12" SLIDER	RIGHT SIDE	1
W4	24" x 12" SLIDER	REAR (DECK)	1
V4	10" x 10" ROOF VENT	WET ROOM	1

SPECIFICATIONS

- Overall body length (hitch to rear wall): 8'-0"
- Overall width (exterior): 7'-0"
- Overall height (est. at highest point): ~7'-6"
- Main room inside depth (excl. wet room): 6'-0"
- Wet room depth: 2'-0" full width
- Interior ceiling height (flat): ~6'-3"
- Finished floor height: ~16" above grade
- Single axle, spring suspension
- Estimated dry weight (target): 1,400-1,700 lbs
- Sleeping capacity: 2 adults + 1 child

SYSTEM SUMMARY (SEE SHEET 5)

- 200W ROOF-MOUNT SOLAR (2x100W)
- 20A MPPT CHARGE CONTROLLER
- 100Ah LiFePO4 BATTERY (12V)
- LOW & FORWARD
- FRESH WATER: (1) 5 GAL JUG UNDER KITCHEN COUNTER
- GRAY WATER: (1) 5 GAL CATCH/JUG IN WET ROOM
- REMOVABLE
- 12V DC LIGHTING & VENTILATION

ANSWAR LIVINGSTON

— OWNER / BUILDER —

PROJECT:

8' x 7' MICRO TINY HOME ON WHEELS
(MICRO THOW)

DRAWING TITLE:

PAGE 1 — OVERALL FLOOR PLAN

SCALE:

1/2" = 1'-0"

DATE:

05/18/2024

NOTE:

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PLANNING. ALL DIMENSIONS, MATERIALS,
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AGAINST THE ACTUAL TRAILER & SITE
CONDITIONS BEFORE CONSTRUCTION.

REV:

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DIMENSIONS & SYSTEM LAYOUT

PAGE:

1
OF 6

DATE:

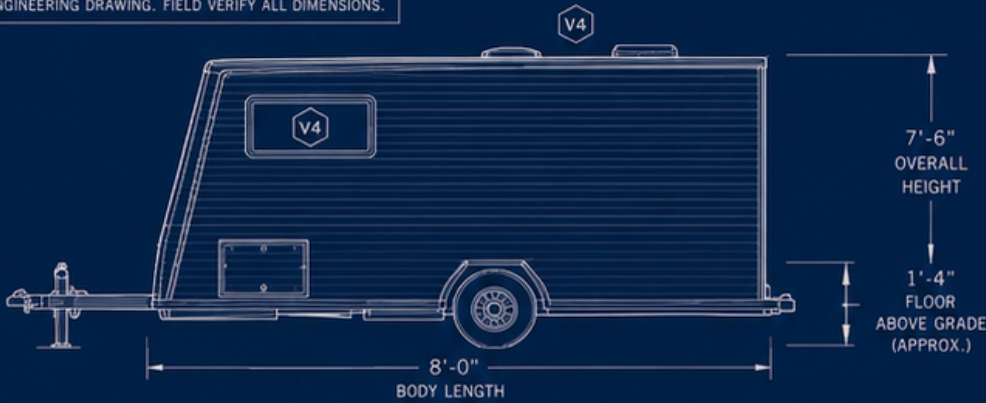
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CONTRACTOR: FIELD VERIFY ALL DIMENSIONS, WEIGHT DISTRIBUTION, AND CODE COMPLIANCE BEFORE CONSTRUCTION.

EXTERIOR ELEVATIONS

SCALE: 1/2" = 1'-0"

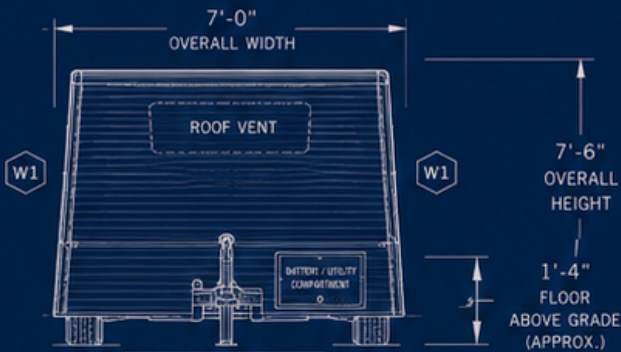
SINGLE AXLE TRAILER SHOWN – NOT A CERTIFIED
ENGINEERING DRAWING. FIELD VERIFY ALL DIMENSIONS.



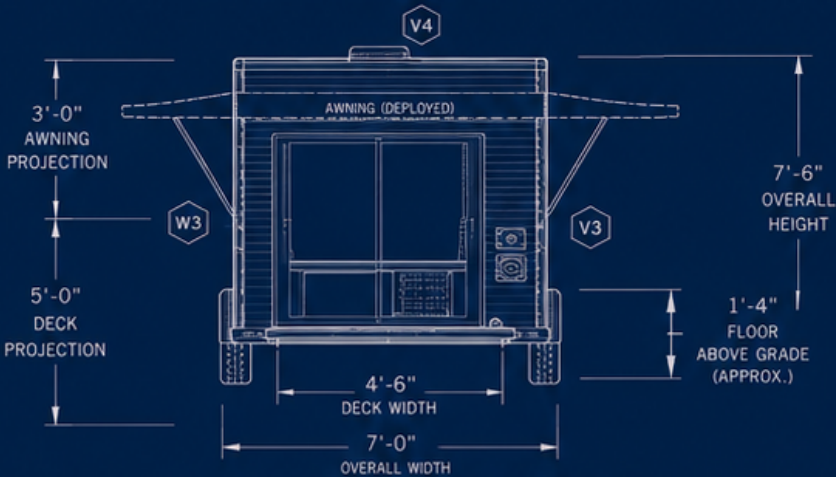
DRIVER SIDE ELEVATION



PASSENGER SIDE ELEVATION



FRONT / HITCH ELEVATION



REAR DECK ELEVATION (DECK DEPLOYED)

ELEVATION KEY

- AERODYNAMIC SLANTED FRONT WALL
- AWNING (DEPLOYED)
- BATTERY / UTILITY COMPARTMENT (LOW & FORWARD)
- VENT (SEE SCHEDULE)
- WINDOW (SEE SCHEDULE)
- VENT (SEE SCHEDULE)
- SINGLE AXLE

EXTERIOR NOTES

- 1 Aerodynamic slanted front wall for improved towing efficiency.
- 2 Single axle, electric brakes, 2" coupler.
- 3 Finished floor approximately 16" above grade.
- 4 Fold-down rear deck (4'-6" wide x 5'-0" proj.).
- 5 Rear awning / roof above (4'-6" wide x 3'-0" proj.).
- 6 Passenger-side entry door near rear / wet room.
- 7 Windows and vents match PAGE 1 plan.
- 8 Battery / utility compartment low and forward near hitch.
- 9 All exterior materials lightweight and weather-resistant.

DIMENSIONS & NOTES

- Overall length (body): 8'-0"
- Overall width (exterior): 7'-0"
- Overall height (to highest point): ~7'-6"
- Finished floor height: ~16" above grade
- Rear deck: 4'-6" wide x 5'-0" projection
- Awning / roof above: 4'-6" wide x 3'-0" projection
- Axle: Single 3,500 lb spring axle
- Tires: ST205/75R14C
- Hitch: 2" ball coupler with safety chains
- Frame: Lightweight steel, powder coated

WINDOW SCHEDULE

TAG	TYPE / SIZE (NOM.)	LOCATION	QTY.
W1	24" x 12" SLIDER	FRONT LEFT	1
W2	24" x 12" SLIDER	ENTRY DOOR	1
W3	24" x 12" SLIDER	REAR (DECK)	1
W4	10" x 10" ROOF VENT	WET ROOM	1

VENT SCHEDULE

TAG	TYPE / SIZE (NOM.)	LOCATION	QTY.
V1	24" x 12" LOUVER	FRONT (ROOF)	1
V2	2"x3" DRYER VENT	REAR WALL	1
V3	4" WALL VENT	REAR (WET ROOM)	1
V4	10" ROOF VENT	MAIN ROOF	1

CONTRACTOR NOTE

Field verify all dimensions, openings, vent locations, clearances, and utility access prior to fabrication. Ensure compliance with local code and towing requirements. This drawing is for construction reference only and not a certified engineering plan.

ANSWAR LIVINGSTON
— OWNER / BUILDER —

PROJECT:
8' x 7' MICRO TINY HOME ON WHEELS
(MICRO THOW)

DRAWING TITLE:
PAGE 2 — EXTERIOR ELEVATIONS

SCALE:
1/2" = 1'-0"

DATE:
05/18/2024

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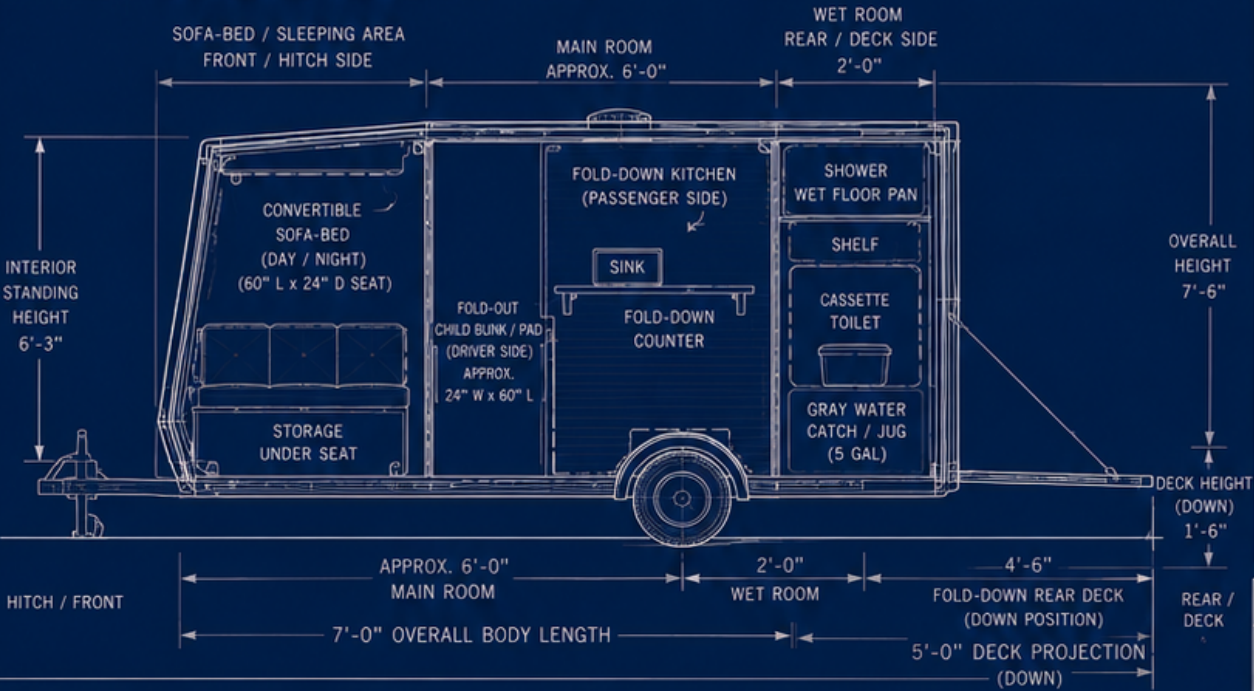
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CONCEPT ISSUE — FIELD VERIFY ALL
DIMENSIONS & SYSTEM LAYOUT

PAGE:
2
OF 6

DATE:
05/18/2024

1 LONGITUDINAL SECTION A-A

LOOKING FROM FRONT / HITCH SIDE TOWARD REAR / DECK SIDE

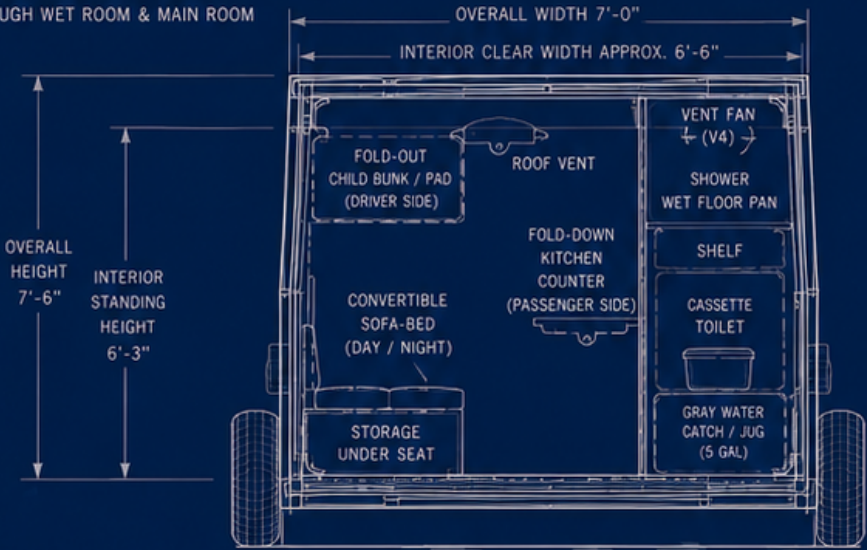


SECTION KEY NOTES

- 1 Slanted aerodynamic front wall improves towing efficiency.
- 2 Sofa converts to bed at night with storage under seat.
- 3 Fold-down kitchen counter with sink on passenger side.
- 4 Fold-out child bunk/pad on driver side.
- 5 Wet room is full width and separated from main room.
- 6 Rear deck folds down for entry, unloading and outdoor use.
- 7 No loft. Interior standing height approx. 6'-3".
- 8 Overall height approx. 7'-6" (with roof vent).
- 9 Single axle, lightweight build.
- 10 All openings screened with shower, cassette toilet, and ventilation for safe use.

2 CROSS SECTION B-B

THROUGH WET ROOM & MAIN ROOM



WALL / FLOOR / ROOF ASSEMBLIES

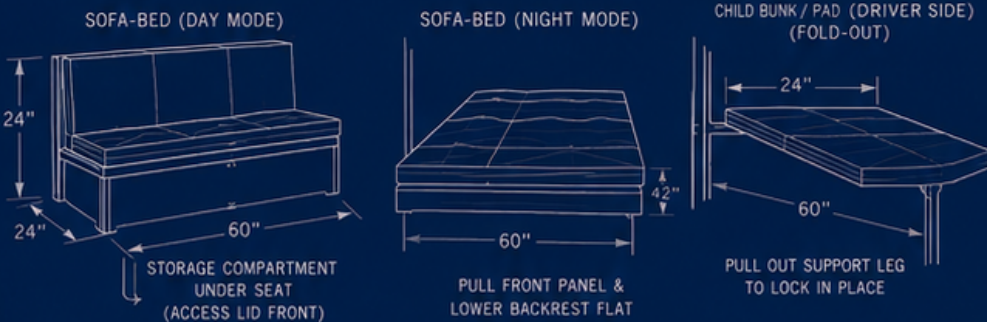
- WALL (TYP.)
- Exterior Aluminum Skin
 - 3/8" Exterior Plywood Sheathing
 - 2x2 Wood Framing @ 16" O.C.
 - R-7 Foam Board Insulation
 - 1/4" Interior Plywood Panel
 - Interior Finish (Paint / Laminate)
- FLOOR (TYP.)
- Vinyl Flooring
 - 1/2" Plywood Subfloor
 - 2x2 Wood Floor Framing
 - R-7 Foam Board Insulation
 - Aluminum Sheet Underbelly
- ROOF (TYP.)
- Aluminum Roof Skin (Seamless)
 - 3/8" Plywood Roof Sheathing
 - 2x2 Wood Roof Framing
 - R-7 Foam Board Insulation
 - Interior Finish (Paint)

SAFETY & CODE NOTES

- 12V DC electrical system with over-current protection and proper wire sizing.
- All 120V shore power components GFCI protected and grounded.
- Propane or electric appliances (if any) shall comply with NFPA 1192.
- Egress via rear fold-down deck and side windows.
- Ventilation: roof vent fan and window vents provide continuous air exchange.
- All wet room surfaces sealed and water-resistant.

3 DETAIL C – CONVERTIBLE SOFA-BED & CHILD BUNK MODULE

NOT TO SCALE



MODULE CONSTRUCTION NOTES

- Sofa-bed frame: 3/4" plywood with hardwood cleats and piano hinge.
- Cushions: 4" high-density foam, durable fabric cover.
- Bunk/pad: 3/4" plywood platform with fold-down support leg.
- All moving parts to be secured with positive latches during travel.
- Storage under seat rated 100 lbs distributed load.
- All edges rounded and finished.

ABBREVIATIONS

AFF	Above Finished Floor
O.C.	On Center
TYP.	Typical
CLR.	Clear
R.O.	Rough Opening
GA.	Gauge
GFCI	Ground Fault Circuit Interrupter
DC	Direct Current
AC	Alternating Current

ANSWAR LIVINGSTON
— OWNER / BUILDER —

PROJECT:
8' x 7' MICRO TINY HOME ON WHEELS
(MICRO THOW)

DRAWING TITLE:
PAGE 3 – BUILDING SECTIONS &
INTERIOR HEIGHTS

SCALE:
1/2" = 1'-0"

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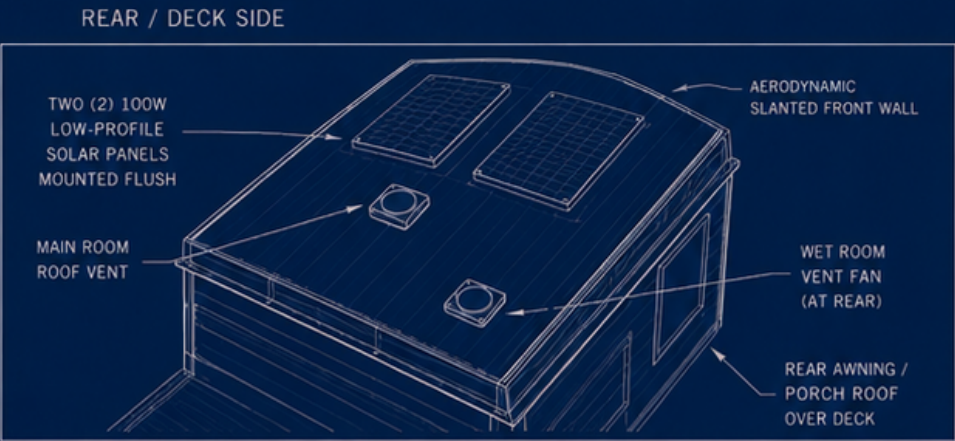
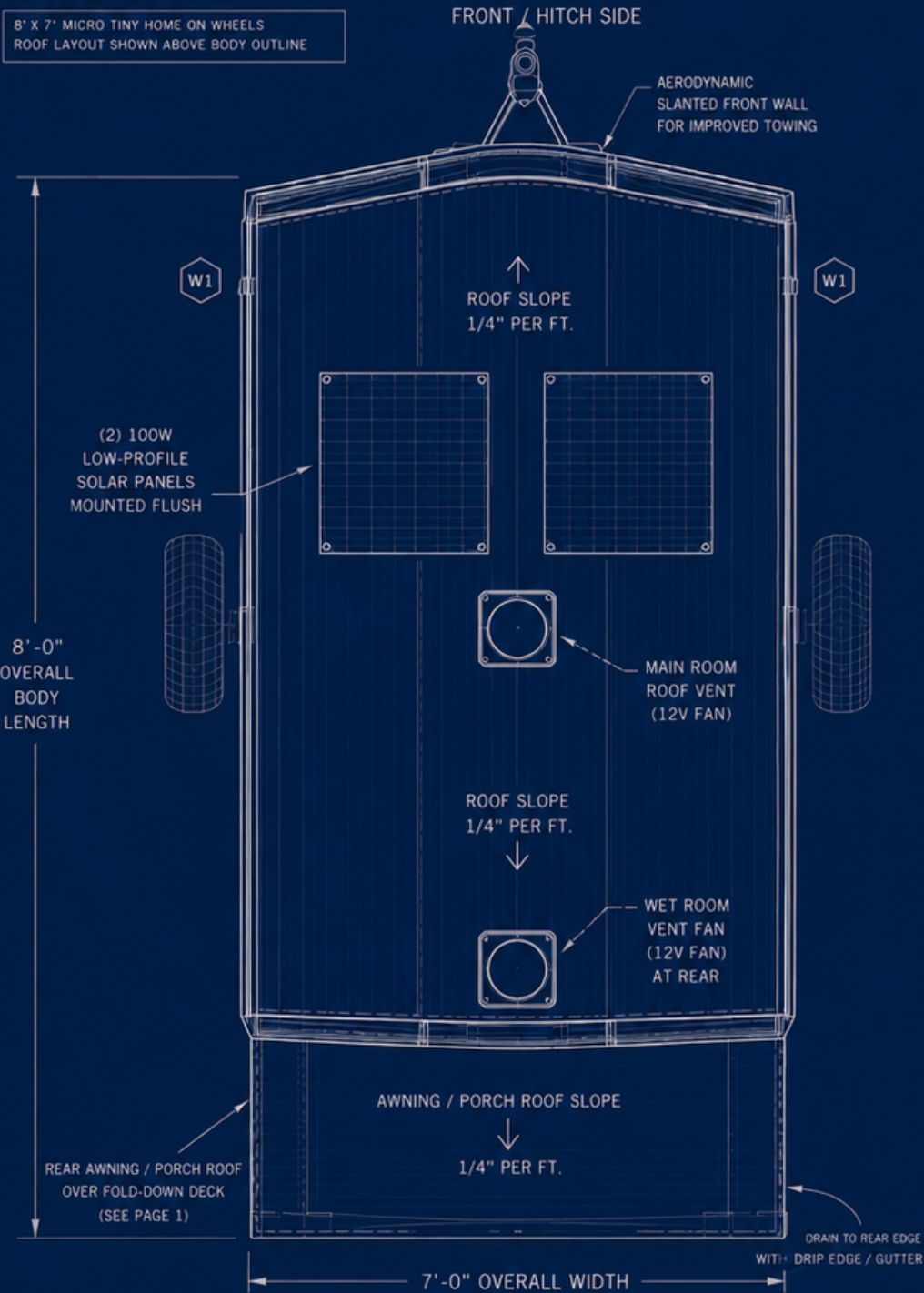
PAGE:
3
OF 6

DATE:
05/18/2024

ROOF PLAN, SOLAR & VENTILATION

SCALE: 1/2" = 1'-0"

8' x 7' MICRO TINY HOME ON WHEELS
ROOF LAYOUT SHOWN ABOVE BODY OUTLINE



SOLAR & VENT SCHEDULE

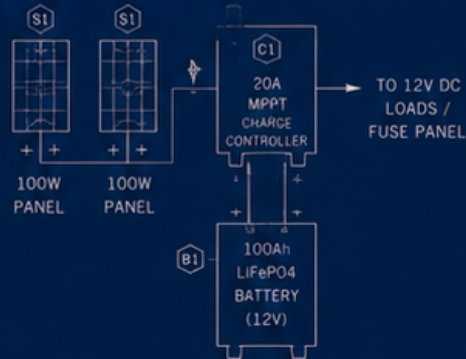
TAG	TYPE / DESCRIPTION	QTY.
S1	100W LOW-PROFILE SOLAR PANEL	2
C1	20A MPPT CHARGE CONTROLLER	1
B1	100Ah LiFePO4 BATTERY (12V)	1
RV1	MAIN ROOM ROOF VENT (12V FAN)	1
RV2	WET ROOM ROOF VENT FAN (12V)	1
VB1*	OPTIONAL HIGH SIDE-WALL BAND VENT (PAIR)	1 PAIR

*HIGH SIDE-WALL BAND VENT IS OPTIONAL FOR NATURAL CROSS-VENTILATION WHEN PARKED.

ROOF SCHEDULE

ITEM	DESCRIPTION	SPECIFICATION
RF-1	MAIN ROOF	ALUMINUM SHEET, 24GA, .040", STANDING SEAM
RF-2	REAR AWNING / PORCH ROOF	ALUMINUM SHEET, 24GA, .040", STANDING SEAM
DR-1	EDGE TRIM	ALUMINUM DRIP EDGE ALL SIDES
GUT-1	REAR GUTTER	INTEGRATED DRIP EDGE WITH OUTLET
ATT-1	SOLAR MOUNTING	LOW-PROFILE ADHESIVE MOUNT (NO PENETRATION)
SEAL-1	ROOF SEALANT	BUTYL TAPE UNDER RAILS, LAP SEALANT ALL PENETRATIONS

SOLAR ELECTRICAL DIAGRAM



BATTERY / UTILITY COMPARTMENT (LOW & FORWARD)
SEE PAGE 1

NOTES (ROOF)

- Roof is designed with 1/4" per ft. slope for drainage.
- All roof penetrations sealed with butyl tape and high-quality sealant.
- Solar panels mounted flush with adhesive mounts (no penetrations).
- Keep panels clear of shade. Clean periodically.
- Roof vents are 12V powered; use as needed for airflow and moisture control.
- Optional high side-wall band vents improve cross-ventilation when parked (not used in rain).

ANSWAR LIVINGSTON
— OWNER / BUILDER —

PROJECT:
8' x 7' MICRO TINY HOME ON WHEELS
(MICRO THOW)

DRAWING TITLE:
PAGE 4 — ROOF PLAN, SOLAR & VENTILATION

SCALE:
1/2" = 1'-0"

DATE:
05/18/2024

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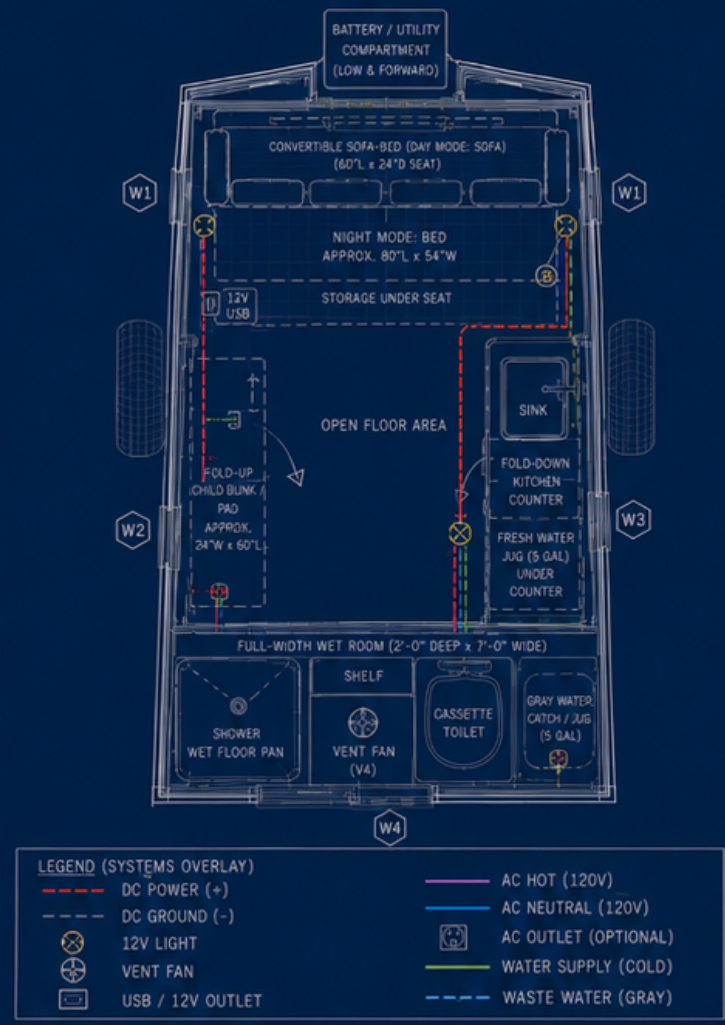
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CONCEPT ISSUE — FIELD VERIFY ALL DIMENSIONS & SYSTEM LAYOUT

PAGE:
4
OF 6

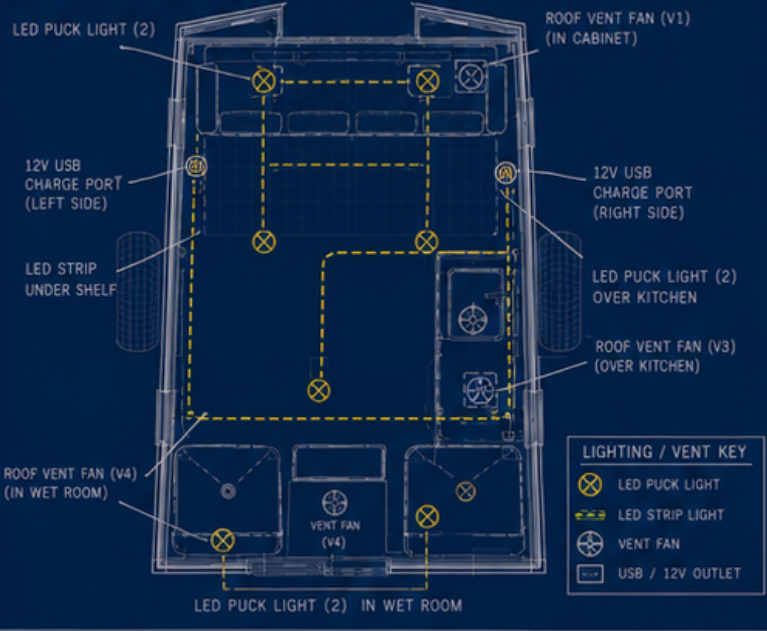
DATE:
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CONTRACTOR: FIELD VERIFY ALL DIMENSIONS, WEIGHT DISTRIBUTION, AND CODE COMPLIANCE BEFORE CONSTRUCTION.

1) SYSTEMS PLAN (FLOORPLAN OVERLAY)



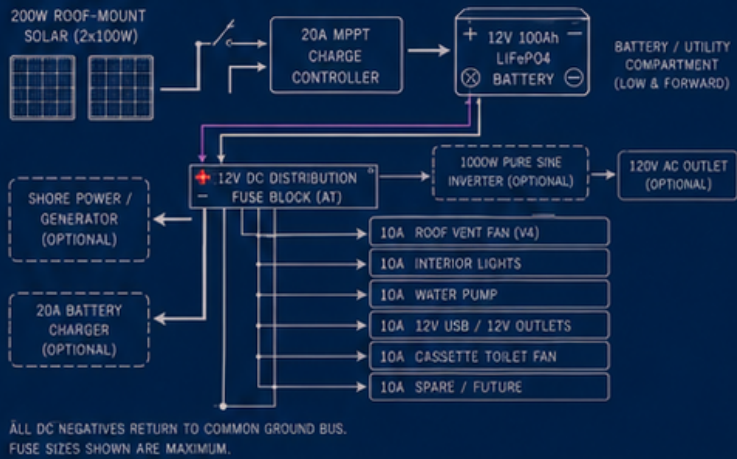
5) INTERIOR LIGHTING & VENTILATION LAYOUT



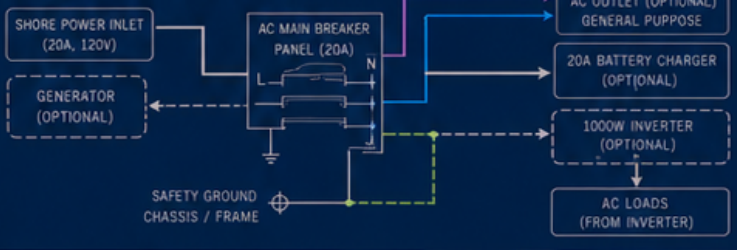
SYSTEM NOTES

- All 12V DC loads fused at distribution block. Sizes are maximum.
- Battery located low & forward for safe weight distribution.
- Solar panels optional; shore or generator can charge battery.
- Fresh water jug under kitchen counter; drain to gray water jug in wet room.
- Gray water jug removable for emptying. Do not connect to black-water system.
- AC outlet and inverter are optional. Ensure proper grounding when used.
- All penetrations sealed with marine-grade sealant.

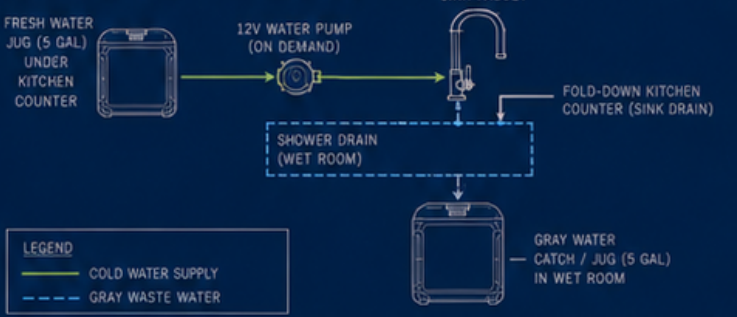
2) 12V DC ELECTRICAL DIAGRAM



3) AC / SHORE POWER DIAGRAM



4) PLUMBING / WATER SYSTEM SCHEMATIC



ELECTRICAL COMPONENT SCHEDULE (12V / AC)		
ITEM	DESCRIPTION	QTY.
SOLAR PANEL	100W MONOCRYSTALLINE	2
MPPT CHARGE CONTROLLER	20A, 12V/24V	1
BATTERY	12V 100Ah LiFePO4	1
DC DISTRIBUTION / FUSE BLOCK	ATC / ATD (12-WAY)	1
INVERTER (OPTIONAL)	1000W PURE SINE (1200-120VAC)	1
SHORE POWER INLET	20A, 120V	1
AC MAIN PANEL / BREAKER	20A, 120V	1
BATTERY CHARGER (OPTIONAL)	20A, 12V SMART CHARGER	1
ROOF VENT FAN (V1, V3, V4)	12V, 10" (25cm)	3
WATER PUMP (ON DEMAND)	12V, 2.2 GPM	1
USB / 12V OUTLETS	DUAL USB-A / USB-C 12V	2
AC OUTLET (OPTIONAL)	120V GFCI	1

DC FUSE / CIRCUIT SCHEDULE		
CIRCUIT	MAX FUSE	WIRE
ROOF VENT FAN (V4)	10A	14 AWG
INTERIOR LIGHTS (ALL)	10A	14 AWG
WATER PUMP	10A	14 AWG
USB / 12V OUTLETS	10A	14 AWG
CASSETTE TOILET FAN	10A	14 AWG
SPARE / FUTURE	10A	14 AWG
MAIN DC FEED (FROM BATTERY)	30A	10 AWG

WIRING KEY (TYP.)		
WIRE	USE	COLOR
POSITIVE (+12V DC)	POWER +	RED
NEGATIVE (DC GROUND)	GROUND	BLACK
AC HOT (120V)	AC HOT	PURPLE
AC NEUTRAL (120V)	AC NEUTRAL	BLUE
SAFETY GROUND (AC)	GROUND	GREEN
LIGHTING (+12V)	LIGHT +	YELLOW

PLUMBING COMPONENT SCHEDULE		
ITEM	DESCRIPTION	QTY.
FRESH WATER JUG	5 GALLON WITH SPOUT	1
WATER PUMP	12V ON DEMAND 2.2 GPM	1
SINK FAUCET	FOLD-DOWN / LOW PROFILE	1
SHOWER HEAD	HANDHELD W/ HOSE	1
GRAY WATER CATCH / JUG	5 GALLON REMOVABLE	1
CASSETTE TOILET	MANUAL FLUSH CASSETTE	1

ANSWAR LIVINGSTON
— OWNER / BUILDER —

PROJECT:
8' x 7' MICRO TINY HOME ON WHEELS
(MICRO THOW)

DRAWING TITLE:
PAGE 5 — ELECTRICAL, AC/DC,
BATTERY & WATER SYSTEMS

SCALE:
1/2" = 1'-0"

DATE:
05/18/2024

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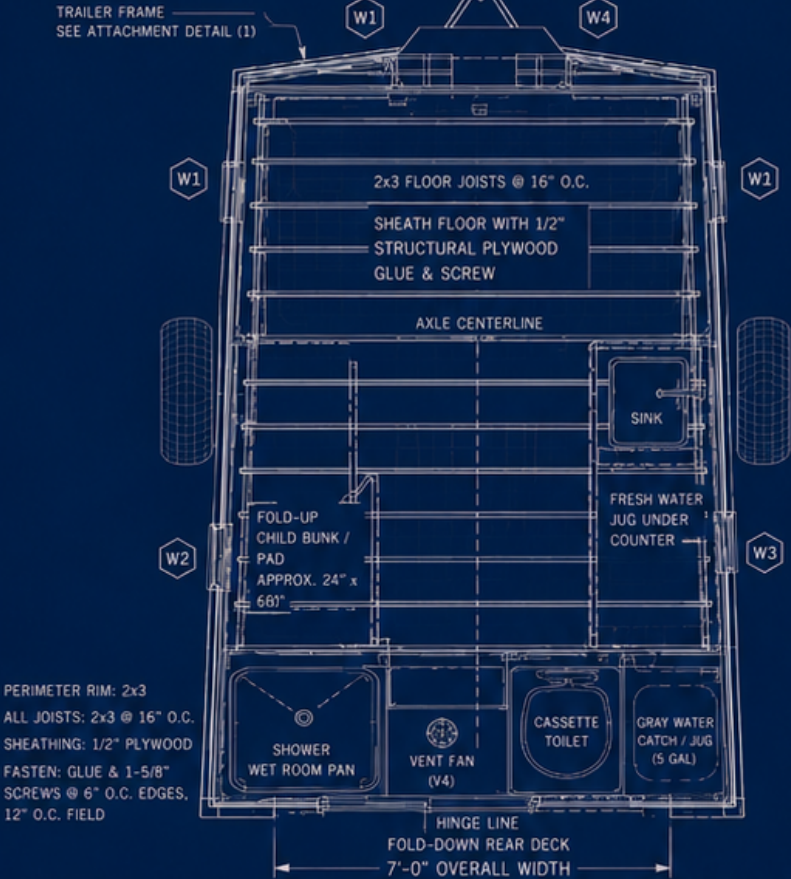
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DIMENSIONS & SYSTEM LAYOUT

PAGE:
5
OF 6

DATE:
05/18/2024

LOWER WALL / FLOOR FRAMING PLAN

SCALE: 1/2" = 1'-0"
8'-0" OVERALL BODY LENGTH X 7'-0" OVERALL WIDTH



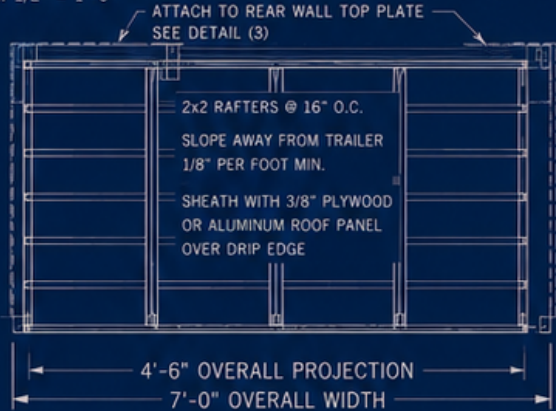
PORCH FRAMING / FOLD-DOWN DECK FRAMING PLAN

SCALE: 1/2" = 1'-0"

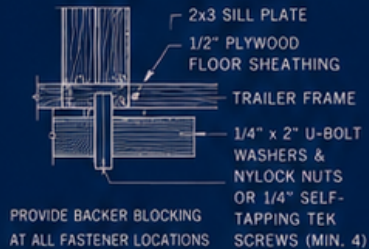


REAR AWNING ROOF FRAMING PLAN

SCALE: 1/2" = 1'-0"

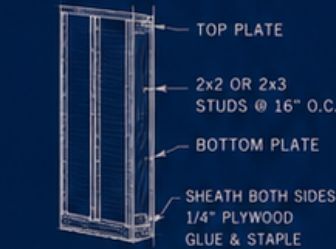


1 ATTACHMENT TO TRAILER FRAME
TYP. AT ALL WALL SUPPORT POINTS

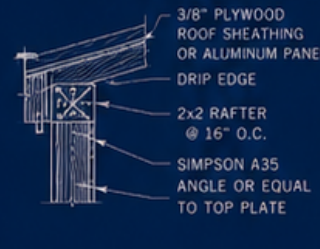


PROVIDE BACKER BLOCKING
AT ALL FASTENER LOCATIONS

2 WALL STUD DETAIL (TYP.)
2x2 OR 2x3 STUDS @ 16" O.C.



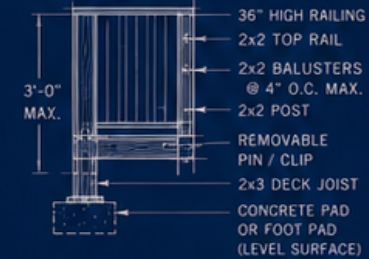
3 ROOF RAFTER DETAIL
REAR AWNING ROOF



4 FLOOR ATTACHMENT DETAIL

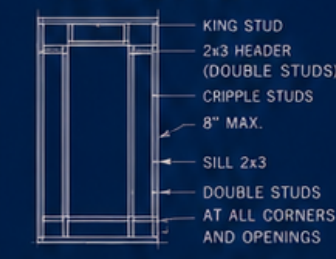


5 DECK POST & RAILING DETAIL
REMOVABLE

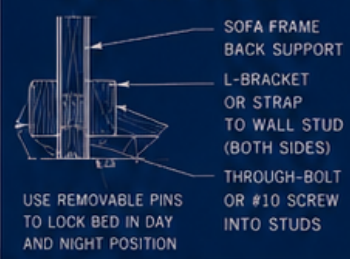


3'-0" MAX.

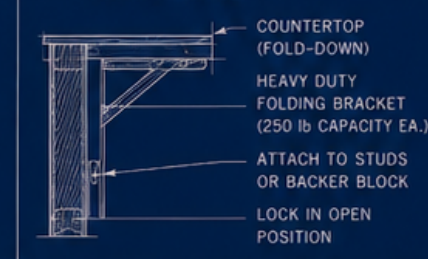
6 OPENING REINFORCEMENT DETAIL
WINDOW / VENT / DOOR



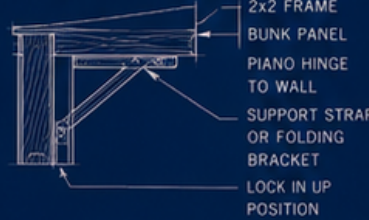
7 SOFA-BED ANCHORAGE DETAIL
FRONT CONVERTIBLE SOFA



8 FOLD-DOWN KITCHEN SUPPORT
COUNTER BRACE



9 CHILD BUNK SUPPORT DETAIL
FOLD-UP BUNK / PAD



LOAD, BALANCE & SAFETY NOTES

- TARGET DRY WEIGHT: 1,000 - 1,700 lbs (EST.)
- SLEEPING CAPACITY: 2 ADULTS + 1 CHILD
- DISTRIBUTE HEAVY ITEMS LOW AND FORWARD / NEAR AXLE CENTERLINE.
- 10-15% OF TOTAL WEIGHT ON HITCH.
- DO NOT EXCEED TRAILER GVWR.
- SECURE ALL CABINETRY, FIXTURES & APPLIANCES WITH POSITIVE MECHANICAL FASTENERS.
- CHECK TIRE PRESSURE & LUG NUT TORQUE BEFORE EVERY TRIP.

CHASSIS INTEGRATION NOTES

- USE EXISTING TRAILER FRAME AS PRIMARY STRUCTURAL MEMBER.
- TIE FLOOR FRAME TO TRAILER AT ALL SUPPORT POINTS (SEE DETAIL 1).
- DO NOT DRILL THROUGH MAIN FRAME FLANGES WITHOUT APPROVED MOUNTS.
- INSPECT FRAME, AXLE, SUSPENSION, AND ELECTRICAL SYSTEM BEFORE BUILD.

MATERIAL & FASTENER NOTES

- WALL STUDS: 2x2 OR 2x3 SPF @ 16" O.C.
- FLOOR JOISTS: 2x3 SPF @ 16" O.C.
- ROOF RAFTERS: 2x2 SPF @ 16" O.C.
- SHEATHING: 1/2" PLYWOOD (FLOOR) / 1/4" PLYWOOD (WALLS) / 3/8" PLYWOOD (ROOF)
- FASTENERS: #8 OR #10 WOOD SCREWS
- GLUE: CONSTRUCTION ADHESIVE AT ALL JOINTS AND SHEATHING.

LIVE LOAD LIMITS (MIN.)

- FLOOR (RESIDENTIAL): 40 PSF
- LOFT / BUNK: 30 PSF
- REAR DECK: 40 PSF
- ROOF (AWNING): 20 PSF
- COUNTERTOP: 250 LBS POINT LOAD
- SOFA-BED: 400 LBS DISTRIBUTED

ANSWAR LIVINGSTON
— OWNER / BUILDER —

PROJECT:
8' x 7' MICRO TINY HOME ON WHEELS
(MICRO THOW)

DRAWING TITLE:
PAGE 6 — LIGHTWEIGHT FRAMING &
STRUCTURAL DETAILS

SCALE:
1/2" = 1'-0"

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PAGE:
6
OF 6

DATE:
05/18/2024

CONTRACTOR: FIELD VERIFY ALL DIMENSIONS, WEIGHT DISTRIBUTION, AND CODE COMPLIANCE BEFORE CONSTRUCTION.