

**MOBILE MEDICAL CLINIC
FARBER MODEL: FARBER45FL-XCR
STANDARD FEATURES**

I. DIMENSIONS

1. Overall Length	44 ft. 11 in.
2. Exterior Width	101 in.
3. Overall Height	13 ft.
4. Interior Width	96 in.
5. Interior Headroom	85 in.
6. Interior Floor Length (behind cab area)	34 ft. 11 in.

II. CHASSIS SPECIFICATIONS

1. Chassis Type	<i>Freightliner XCR</i> , rear engine, raised rail
2. Wheelbase	282"
3. GVWR	44,600 lbs.
4. Frame	High strength low alloy steel (50 ksi), raised rail 1/4" x 2.75" x 9" steel channel
5. Engine	Cummins ISL, 8.3L, 450 HP @ 2100 RPM 1050 lb./ft. Block heater, 1000 watt/ 115V
6. Transmission	<i>Allison 3000MH</i> series six speed automatic Push button electric shift with remote mounted ECU
7. Alternator	12V, 200 amp, <i>Leece Neville</i> , model 4940
8. Batteries	Two (2) 12V group 31, 1900 CCA
9. Brakes	Air brake system with <i>Wabco 4S/4M</i> Anti-lock braking system: <i>Wabco</i> hydraulic ABS <i>Bendix ADB22X</i> air disc front brakes <i>Meritor 16.5 x 7</i> cast spider cam rear brakes <i>Haldex Pure Air Plus</i> air dryer with electric heater Non-asbestos brake lining <i>Schrader</i> valve-external charging w/ remote air fill kit

10. Fuel Tank	100 (U.S.) gallon capacity, between frame rails Driver's side fuel fill "Diesel Fuel" permanently mounted near fuel fill Generator fuel pickup tube installed by fuel tank manufacturer, set at depth not to empty tank, left and right side fuel fill
11. Front Axle	14,600 lb. capacity, Z-F Independent front axle
12. Suspension	Z-F RF6EM independent front air suspension , steering stabilizer
Front	14,600 lb. capacity Swaybar, inboard mounted <i>Sachs</i> front shock absorbers
13. Rear Axle	20,000 lb. capacity, <i>Meritor</i> RS-19-144 4.63 rear axle ratio
Tag Axle	10,000 lb.
14. Suspension	<i>Neway</i> ADL rear air suspension, 20,000 lb. capacity
Rear	Automatic dump valve for air suspension <i>Sachs</i> rear shock absorbers
15. Air Intake	<i>Farr Eco SE</i> air cleaner
16. Cooling	1270 sq. in. rear mount radiator Anti-freeze protection; ethylene glycol, 50/50, to -34°F
17. Fuel Filter	Remote mounted fuel filter, fuel water separator
18. Steering	<i>TRW</i> tilt/ telescopic steering column w/ foot actuated pedal TAS-65 power steering pump with 12 quart reservoir Two-spoke 18" black steering wheel, Black VIP smart steering wheel
19. Horns	Dual electric Back up alarm
20. Instruments	Multiplexed fuel level gauge, engine coolant temperature gauge, engine oil pressure gauge, speedometer with odometer/trip odometer, voltmeter, electronic tachometer. Cruise control & wiper switch mounted in smart steering wheel. Driver's message center w/ LCD display & data link.
21. Tires	275/80R22.5 (16 ply) <i>Goodyear G670</i> tubeless radials
22. Wheels	22.5 x 8.25, polished front and rear

III. BODY SPECIFICATIONS

1. Provide a Custom Coach manufactured body. Body framework shall be welded aluminum designed to be durable, and adequately reinforced at all points where road shock and vibration stress concentration occurs. Raised rail chassis provides large, pass thru under floor storage compartments.
2. Sidewall horizontal and vertical structure to be 1.5" x 1.5" x .062" minimum aluminum tubing. All horizontal and vertical structures to be welded top and bottom. All vertical tubing to be spaced at 16" and 24" centers. Window post and door post locations to be double structure for added support. Insulation to be 1 1/2" polystyrene foam core between the tubular supports, and 1" polystyrene on the interior walls. Interior skin to be 3.6MM luan plus 1/2" plywood. The interior finished surface will be *Kemlite* fiberglass reinforced plastic (FRP), white pebble finish, run in one piece front to rear. The exterior surface to be 3.6MM luan with fiberglass gel-coated skin.
3. Rear vertical wall to be 1-1/2" x 1-1/2" x .062" minimum aluminum tubing and 1-1/2" x 1-1/2" x .125" minimum aluminum angle. All horizontal and vertical structures to be welded top and bottom. All vertical tubing to be spaced at 24" centers. Engine service access door to be provided with a rough opening of 31" x 58". Insulation to be 1 1/2" polystyrene foam core between the tubular supports, and 1" polystyrene on the interior walls.
4. Front vertical wall below windshield to be 1-1/2" x 1-1/2" x .062" minimum steel tubing and 1-1/2" x 1-1/2" x .125" minimum steel angle. Welded horizontal tubing top and bottom. Insulation to be 1-1/2" polystyrene foam core. Interior surface to be 3/4" plywood. Exterior surface to be 3/4" plywood covered with .040" aluminum sheet. Standard fastening and lamination process to be used. Two piece molded fiberglass cap with service access door to finish front.
5. Exterior panels shall be gel-coated smooth one piece fiberglass. Fiberglass to go through a lamination procedure that will include a vacuum bonding process. Exterior side paneling shall be designed to contribute to the overall structural integrity of the coach body.
6. Roof to be constructed of a combination of 1" x 1-1/2" and 1-1/2" x 1-1/2", .062" thick minimum aluminum tubing with a truss system to allow contoured exterior roof and flat interior ceiling. Welded horizontal tubing top and bottom with all vertical tubing spaced at 24" centers. Insulation used to be high density foam, custom cut to roof contour. Interior and exterior roof surface to be covered with 3.6MM luan laminated in a vacuum bond process.
7. Exterior roof surface shall be one-piece aluminum reflective run the full length of the roof and provide sufficient strength for walking.
8. Floor to be constructed of 2" x 2" x 1/16" steel tubing. Welded longitudinal tubing top and bottom spaced at 16" centers. Insulation to be 2" polystyrene foam core. Interior floor surface to be 3/4" plywood. Bottom

- (exterior) surface to be covered with 3.6 mm luan and .008" galvanized steel. All of the above to go through a lamination procedure that will include a vacuum bonding process. Upper floor to provide a cutout for engine service access panel.
9. One (1) Entrance / Exit door curb side, located between axles. Rough opening 32" x 80". One (1) upper window, *Hehr* model 5901 (22" x 24") tinted slider. *Schlage* dead bolt keyed lock on outside with twist lock latch on inside, door hold back, and bumper. Door to be double constructed aluminum and steel with polystyrene foam insulation core. Interior finish to coordinate with wall finish.
 10. Three (3) interior steps with two (2) electrically operated exterior steps, *Kwikkee* model 3000, door activated with ignition override. Warning device shall be either visual and/or audible, provided to alert the driver that step is down.
 11. Stepwells covered with transit bus style steel backed, rubber treads with white nose. Treads securely fastened and silicone sealed at the edges.
 12. Skirting to be constructed of .100" aluminum sheet panels. Panels to be cut to size for minimum overlap and or joints. Panels to be placed and secured with the necessary fasteners and support hardware. Panel to be primed and painted with a pre-selected finish.
 13. Custom exterior storage compartments constructed of .125" aluminum with welded seams, sweep out bottoms, box pan doors. All compartment doors to have slam lock latches and stainless rotary D-ring handle. Hold open latch and compartment light to be provided.
 14. *Velvac* # 716246-1 bus style exterior mirrors to be heated with remote control on dashboard.
 15. Four (4) *Glo-brite* stop-tail-turn multi-function LED tail lights with reverse lights, Hella halogen headlights, and LED clearance/side marker lights meeting or exceeding state/federal requirements.
 16. Two speed, intermittent electric windshield wipers/washers with 700 mm blades and a 4 qt. washer fluid bottle with electric pump.
 17. Body shall have tinted safety glass windshield with driver and passenger sun visors.
 18. Full body width rear bumper.

IV. DRIVER/PASSENGER CAB AREA

1. High-back driver's bucket seat with armrests, headrest, recline, multi-adjustable, manual adjustable lumbar and three point shoulder and lap seat belt with retractors. 180 degree swivel and slide pedestal control. Seat to be 6-way electric.
2. High-back passenger's bucket seat with armrests, headrest, recline, multi-adjustable, manual adjustable lumbar and three point shoulder and lap seat belt with retractors. 180 degree swivel and slide pedestal control. Seat to be 6-way electric.
3. Rearview camera system with exterior speaker and monitor custom built into dashboard, to be provided to assist in backing up vehicle. Monitor is 7" measured diagonally and automatically turns on when vehicle gear

- lever is set in reverse. Camera provides field of view of 100E horizontally and 80E vertically.
4. Control panels for 120V AC / 12V DC systems are to be located in the overhead console. The console is to be constructed of 3/4" cabinet grade plywood and finished with durable laminate.
 5. AM/FM/CD stereo with digital clock, seek and scan feature to be located in the dashboard easily accessed by driver. Roof mounted radio antenna. Includes two (2) cab area speakers, 6" each.
 6. Sign on dashboard with vehicle height listed.
 7. Payload sticker in cab area with vehicle axle loads and available axle payload as built.
 8. Two (2) front fans for defrosting windshield.

V. INTERIOR

1. One (1) 9V smoke alarm.
2. Two (2) ABC dry chemical fire extinguishers, carbon dioxide, minimum 5-pound units, with dial type indicator, in quick release brackets shall be provided.
3. Cushioning materials and coverings meet or exceed FMVSS-302.
4. Floor to be covered with Lonseal, *Tarkett Footnotes*, or *Roppe Rubber*, non-skid medical-grade flooring. The Lonseal and *Tarkett* vinyl are a continuous piece front to back and *Roppe Rubber* is 19 inch replaceable squares.
5. Finished ceiling to be *Kemlite* fiberglass reinforced plastic (FRP), white pebble finish, run in one piece front to rear.
6. All bulkheads to be laminate finished, color matched.
7. Pocket doors installed on heavy duty aluminum track with recessed handles and latch.

VI. CABINETS

1. All cabinets to be constructed of 3/4" cabinet grade plywood with laminate finish.
2. No particleboard, fiberboard or MDF materials to be used in cabinet construction.
3. All cabinet doors to be finished with polished white laminate dry-erase boards or laminate.
4. All horizontal-hinged cabinet doors to have Grass KB70 hinges with integrated hold-open and soft-close features to prevent opening while vehicle is in motion. All doors to be cut using aircraft tolerance CNC router.
5. All vertical-hinged doors and drawer fronts to have chrome finished *Lamp* catches with deadbolt or locks to prevent opening while vehicle is in motion. All doors to be cut using aircraft tolerance CNC router.

6. All drawer faces to be finished on all exposed edges with 3mm color-coordinated hardened PVC edge-banding with radius corners and edges. All drawer faces to be cut using aircraft tolerance CNC router.
7. All drawers to be assembled using a modified dovetail process.
8. All cabinets to be mechanically fastened or screwed, no staples.
9. Shelves are to be constructed of 3/4" cabinet-grade plywood with no voids on sides and have 2" extruded aluminum front lip.
10. All shelving is to be adjustable in 1.125" increments.
11. All drawers are to use heavy-duty, ball bearing, double-action drawer slides.
12. Countertops to be 3/4" cabinet-grade plywood, doubled to 1.5" at the edges and finished with 1.5" x 3mm or 1.5" x 2mm color-coordinated hardened PVC edge-banding with radius corners and edges.
13. All cabinets to be European face-frame design with flush-mount door and drawer faces.
14. All exposed corners to be .125" minimum, anodized, extruded aluminum with 1" radius. Visible fasteners on exterior radius corners are NOT acceptable.
15. All cabinets to be cut using aircraft tolerance CNC router. Designs must be saved for 20 years.
16. All plywood to meet or exceed CARB air standards.

VII. HEAT / AIR CONDITIONING

1. Install four (4) low profile 1 ton air conditioners
2. Electric heat and air conditioning to be sufficient to maintain 68 degrees cooling in the summer and 68 degrees heating in the winter throughout the inside of the vehicle for 8 continuous hours. Heating and air conditioning thermostats, wall mounted in each section, to control the temperature at a comfortable level inside the vehicle.
3. Two (2) roof ventilators, powered, reversible, *Fantastic Vent* or equal.

VIII. LAVATORY

1. Toilet, sink, power ceiling vent with fan, sink cabinet, mirror. Restroom dimensions 45"x 35" minimum with solid door.
2. Thirty gallon minimum water capacity, electric water heater, demand water pump, monitor panel, thirty five gallon holding tank minimum.
3. Install one (1) 10" x 14" stainless steel sink with chrome-plated laboratory style sink hardware.
4. Solid toilet (not RV style)
5. Chrome-plated paper towel dispenser and toilet paper holder in lavatory.
6. One (1) each GFCI duplex wall outlet in lavatory.
7. Water pump with accumulator tank, Surflo or equal, 2.8 GPM.
8. Hot water heater, two gallon fast recovery, electric.
9. Water inlet with a non-regulated tank fill, with locking access door.
10. All plumbing pressure pipes shall be CPVC.
11. Sewage hose and dump valve shall be provided for holding tank.

IX. 120/240V AC ELECTRICAL SYSTEM

1. Install one (1) *PowerTech* 25 KW liquid-cooled diesel generator. The generator is to be mounted in a custom fabricated galvanized steel compartment with .125" aluminum access door.
2. Generator compartment is to be insulated with high density sound absorbing foam and oil resistant foil faced lining.
3. Generator shall be plumbed to draw fuel from chassis fuel tank.
1. All 120/240V wiring must run in ENT plastic conduit, raceways or *Sealtite*.
2. Install one (1) 120/240V AC control panel with generator and shore power main breaker, UL listed magnetic/hydraulic branch circuit breakers with LED indicators to show activation.
3. 120 volt outlets per final design drawing or custom request.
4. 100 amp, 240 volt, 36 foot shore power cord, permanently attached in compartment.
5. All electrical circuits and appliances shall conform to applicable national electrical codes.

X. 12V DC ELECTRICAL SYSTEM

1. In addition to the chassis batteries, two (2) group 27 deep-cycle batteries to be provided in underbody weather resistant compartment with slide out tray. Charging shall be by vehicle alternator and by battery conditioner
2. One (1) Group 24 battery for generator starting.
3. One (1) commercial duty fan cooled power converter, 90 amp output minimum, for interior 12V power requirements.
4. Install one (1) *Pathmaker* isolator to allow alternator to charge the main, auxiliary and generator batteries.
5. 12V DC control panel with UL listed magnetic/hydraulic circuit breakers with LED indicators to show activation and 12V voltmeter.
6. Two (2) electronic disconnect solenoid switches for main battery system and auxiliary battery system.
7. Install twenty-four (24) 18" white fluorescent light fixtures on ceiling.

XI. WIRING REQUIREMENTS

1. 2-Gauge minimum copper stranded battery cable to be used for 12V DC main supply lines. All cable runs to be full length, no splices. All cable is to be enclosed in convoluted polyethylene tubing and the ends of the cable sealed with color coded shrink wrap identifying the function of the cable.
2. All added electrical circuits shall be protected from over current by resettable circuit breakers appropriately rated for the load.
3. All 12V wiring THHN stranded, bundled, color coded and numbered.
4. All 120/240V AC main wiring is to be stranded, bundled and color coded

THHN wire.

5. Circuit breaker functions are to be identified by engraved or printed labels.
6. All added wiring for load runs shall be AWG 8, 10, 12, 14 and 18 and must conform to MIL-W-1678D type D.
7. All wiring shall be numbered or lettered on 6" centers minimum.
8. All wiring is to be protected from chafing and abrasion.
9. Where wire passes through sheet metal, bulkheads and structural supports plastic grommets shall be used to protect both wiring and wire looms.

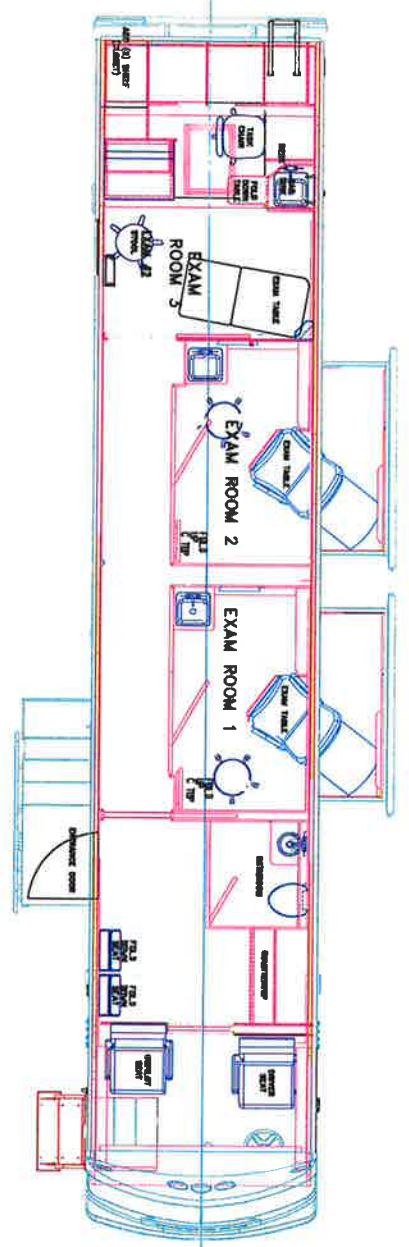
XII. MISCELLANEOUS STANDARD FEATURES

1. Install sign on dashboard with vehicle height listed.
2. Install a payload sticker in cab area with vehicle axle loads and available axle payload as built.
3. HWH automatic hydraulic leveling and stabilizing system with 625 computerized automatic controller sized for GVW of vehicle

NOTE: Model numbers for individual equipment are subject to change from equipment manufacturers. Chassis specifications are subject to model year changes.

All vehicles delivered with as built interior and exterior AutoCad and/or Solid Works drawings. Complete wiring schematics provided with each vehicle.

NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1	PHYSICIAN'S OFFICE	1	SQ. FT.	12' x 12'
2	EXAM ROOM 1	1	SQ. FT.	12' x 12'
3	EXAM ROOM 2	1	SQ. FT.	12' x 12'
4	EXAM ROOM 3	1	SQ. FT.	12' x 12'
5	EXAM ROOM 4	1	SQ. FT.	12' x 12'
6	EXAM ROOM 5	1	SQ. FT.	12' x 12'
7	WAITING AREA	1	SQ. FT.	12' x 12'
8	RECEPTION AREA	1	SQ. FT.	12' x 12'
9	STORAGE	1	SQ. FT.	12' x 12'
10	RESTROOM	1	SQ. FT.	12' x 12'
11	DRINKING FOUNTAIN	1	SQ. FT.	12' x 12'
12	STAIRS	1	SQ. FT.	12' x 12'
13	ENTRY	1	SQ. FT.	12' x 12'
14	HALLWAY	1	SQ. FT.	12' x 12'
15	MECHANICAL ROOM	1	SQ. FT.	12' x 12'
16	RECEPTIONIST'S OFFICE	1	SQ. FT.	12' x 12'



LIST OF EQUIPMENT ON SHEET

FOURTH STREET CLINIC
MOBILE MEDICAL VEHICLE
XXXXXX S.1