

# Veteran's Administration Fixed in Place (FIP) Decontamination Modular Construction Specifications

Contractor shall furnish all labor and materials to install an 8-foot by 24-foot modular decontamination unit at Lexington VA Medical Center, 1102 Veterans Drive, Lexington, Kentucky 40502. VA will provide the concrete foundation and connect the utilities. The unit shall include Purlins/Girts/Lateral bracing, building trim, fascia, and framing for all doors and openings.

Loading: The roof shall be designed for live load, snow load and wind load as per IBC 2009.

Geometry:           Width           8'  
                  Length:         24'

Load Characteristics:

Roof Live Load:                 20psf  
Ground Snow Load:             20psf  
Wind Load:                     90 mph Exposure C

Utilities:

All plumbing, LP gas and electrical utilities shall be fully installed and completed in the modular decontamination unit.

**Outside connections for the plumbing fresh and waste water; LP Gas, and electrical shall be installed at the locations shown in Site Map drawing.**

**Electrical main panel shall have a 100-Amp main breaker panel with a 60-Amp main breaker and a capacity of at least 24 circuits.** GFI circuit breakers shall be provided for outlets in areas exposed to water or required by code.

**A dual 100lb LP gas tank holder shall be installed and appropriate gas regulator compatible and set for LP appliances installed.** The VA shall provide the 100lb LP gas tanks.

Foundation:

The foundation will be provided by the VA. The foundation will be located on an existing concrete drive and no excavation is possible.

The modular decontamination unit supplier shall provide a drawing showing the modular decontamination unit mounting locations, bolt patterns and dimensions.

Anchoring:

**Anchors shall be located at intervals along the perimeter foundation for fastening the frame to the foundation system and be accessible from outside the unit or inside the unit through sealable access points.** Anchors shall not require fastening from under the unit.

## **Modular Building Specifications**

BUILDING: 24X8  
UNITS: (1) 24'X8' MODULE  
CODE: IBC/NEC  
STATE: NONE

### **FRAME:**

TYPE: PERIMETER  
MAIN BEAM: 12X11.8#/ FT ROLLED  
X-MEMBER: 8X6.5#/FT OR 8X10#/FT AT 48" O.C.  
HITCH: BOLT ON  
AXLES: TANDEM, REMOVEABLE W/ ELECT BRAKES  
TIRES: 8:00X14.5 12 PLY

### **FLOOR:**

BTM BOARD: FS-25 CLASS A POLYMAX TYPE FW  
INSULATION: R-19 KRAFT FACED  
JOISTS: 2X6 S.P.F. #2 @ 16" O.C. LONGITUDINAL  
DECKING: 1/2" HARDIE-BACKER OVER  
DECKING: 5/8" CDX PLYWOOD  
(FLOORS SLOPED TO FLOOR DRAINS IN SHOWERS AND CORRIDORS)  
COVERING: MFR STANDARD RAISED COIN FLOOR COVERING  
LINE X SPRAYED ON TRUCK BED LINER OR EQUAL IN SHOWER AREAS  
AND CORRIDOR ONLY (UP MINIMUM 12" ON WALLS)  
DUCT: N/A  
BASE TRIM: 4" VINYL COVE BASE

### **EXTERIOR WALLS**

STUDS: 2"X4" STUD GRADE @ 16"O.C.  
IBC FRAMING  
WALL HGT: 8'0" FINISH CEILING HGT  
COVERING: F.R.P. LAMINATED TO 1/2" GYPSUM  
MISC: FRP BATTENS TO MATCH WALL COVERING AT GYP SEAMS  
COLOR: TO BE SELECTED FROM MANUFACTURERS STD COLORS  
SHEATHING: 3/8" CDX PLYWOOD OR OSB  
SHEATHING: AIR INFILTRATION BARRIER  
INSULATION: R-13 KRAFT FACED  
SIDING: 5/16" HARDIE-PANEL (STUCCO)  
TRIM: 1X4 MDO STAINED  
SKIRTING: NONE (SIDING TO EXTEND TO BOTTOM OF FRAME)

### **INTERIOR WALLS**

22 L.F.: 8'H WITH F.R.P. LAMINATED 1/2" GYPSUM  
MISC: FRP BATTENS TO MATCH WALL COVERING AT GYP SEAMS  
COLOR: TO BE SELECTED FROM MANUFACTURERS STD COLORS

### **ROOF:**

RAFTERS: STANDARD BOW TRUSS @ 16" O.C.  
(40# L.L.)  
CEILING: FRP LAMINATED TO 1/2" GYPSUM  
FRP BATTENS AT GYP SEAMS

INSULATION R-30 UNFACED  
SHEATHING 1/2" PLYWOOD FR DECK  
ROOFING: 45 MIL EPDM (BLACK)  
MANSARD: NONE; TRIM MANSARD ONLY (FOLLOWS ROOFLINE)  
VENTS: POWER VENT WITH GABLE LOUVERS

**DOORS:**

EXT. DOOR: 36X80 18 GAUGE COMMERCIAL STL. WITH STL.JAMB  
10"X10" VISION PANEL  
WITH LEVER LOCKSET (GRADE II)  
WITH NORTON 1604 CLOSER  
QTY OF (6)  
(4) TO HAVE CURTRON STRIP DOOR MODEL #M-106-POR-4086 MOUNTED  
ABOVE THE DOOR ON THE INTERIOR SIDE.

INT DOOR: 36X80 SOLID CORE WOOD W/ STEEL FRAME  
WITH LEVER LOCKSET (GRADE II)  
WITH NORTON 1603 CLOSER  
QTY OF (1)

MISC: MFR STANDARD OPAQUE SHOWER CURTIN LEADING OUT OF THE  
SHOWER AREAS INTO CORRIDORS ONLY)  
QTY OF (3)

**WINDOWS:**

SIZE: PASS THROUGH AT THE CONTAINER LOCATIONS ONLY  
QTY OF (1)

**ELECTRICAL:**

LOADCENTER: 120/240 V. 1-PHASE 60 HZ, 4-WIRE  
MAIN SIZED AS REQUIRED  
QTY OF (1)

WIRING: COPPER ROMEX (12-2 W/G MIN) TYPE NM-B

INT. LIGHTS: 48" (2) **LED W/DIFFUSER**  
QTY OF (4)  
(SURF. MOUNTED)

MISC: LIGHTS TO HAVE ELECTRONIC DRIVERS.

EXT. LIGHTS **LED EXTERIOR LIGHTS**, 150W HPS OUTPUT EQUIVALENT  
QTY OF (4)

MISC: EXTERIOR LIGHTS TO HAVE PHOTO CELLS

EGRESS LIGHT **LED EMERGENCY LIGHT** W/ BATTERY PACK  
QTY OF (1)

EGRESS LIGHT **LED EXIT/EMERGENCY LIGHT** WITH BATTERY PACK  
QTY OF (1)

RECEPTS: 110 VOLT 20 AMP, HOSPITAL GRADE

RECEPTS: GFI AS REQUIRED

RECEPTS: HEAT TAPE RECEPT (GFI PROTECTED) HEAT TAPE TO BE BY  
OTHERS

SWITCHES: 110 VOLT 15 AMP

**PLUMBING:**

WTR HTR: R50LSI TANKLESS RINNAI WATER HEATER (150,000 BTU PRODUCES  
4.6 GPM AT 55 DEGREE TEMP RISE, LP)  
QTY OF (3)

SHOWER: 8" FIXED DRENCH SHOWER HEAD (CEILING MOUNTED)

QTY OF (3)  
 SHOWER: SPEAKMAN SE-925 DRENCH HOSE, STAY OPEN VALVE, 12' RECOILING HOSE AND WALL MOUNTED FLANGE  
 QTY OF (3)  
 FLOOR DRAIN: SHOWER AREAS TO HAVE HANDLES TO MEET ADA COMPLIANCE  
 3" PVC  
 QTY OF (4)  
 DWV: SCH 40 PVC  
 MULTIPLE DROPS W/ MAIN MANIFOLD INSTALLED.  
 EXTERIOR CONNECTION AS SHOWN ON SITE MAP.  
 WATER DRAINS: WATER SYSTEM SHALL HAVE DRAINS TO ALLOW HOT AND COLD WATER LINES TO BE DRAINED TO PREVENT FREEZING.

**H.V.A.C.**

**FURNACE SHALL BE LP GAS FIRED** AND SHALL HAVE SUFFICIENT OUTPUT TO HEAT UNIT AT ASHRAE HEATING DESIGN CONDITIONS FOR LEXINGTON, KY 40502. QTY OF (1). (COOLING SHALL NOT BE PROVIDED).  
 HEAT/COOL:  
 SUPPLY DUCT: FIBERGLASS DUCT BOARD IN THE CEILING CAVITY  
 SUPPLY DIFF. 10"X10"W/ADJ. DAMPER CEILING MOUNTED  
 RETURN DUCT: RETURN AS REQUIRED  
 EXH. FAN EXHAUST AS REQUIRED THROUGH ROOF  
 THERMOSTAT: MANUAL HEAT  
 LP GAS: TANK MOUNTING BRACKETS FOR 2 EA. 100-LB LP GAS TANKS, REGULATOR AND LP GAS PLUMBING TO APPLIANCES SUPPLIED.  
 VA WILL SUPPLY 100-LB LP GAS TANKS

**FURNISHINGS:**

MISC: BESTFLEX PORTABLE DE-CON ROLLER SYSTEM (1)  
 (SHIPPED SEPERATE)  
 HANDLE 226 LBS PER LINEAR FOOT.  
 IBC/NEC

**WARRANTY**

SHALL PROVIDE WARRANTY FOR 1 YEAR FROM THE DATE OF THE INSTALLATION DATE.

**CLARIFICATIONS TO THE STATEMENT OF WORK**

1. The floor plan scales out at 28' length modular building, however, we need one that is 24' feet in length. We are aware that a manufacture has an "off-the shelf" building that is 28', but this will not meet our limited space requirement.

There shall be [one] electrical connection on the outside of the Decontamination Unit near the electrical service - - see drawings that were provided with the Spec.; same applies to plumbing – domestic water and waste.

There is no preference for a pitched roof or flat.

Floor jacks and rollers can be used in lieu of crane for delivery. It is to be delivered with wheels and tow bar per spec. We need the lift brackets to come with the Decontamination Unit.