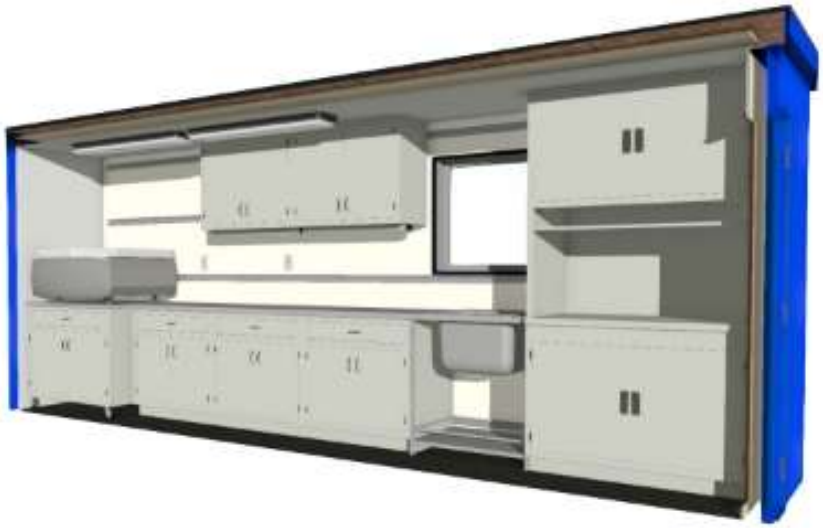
Radioisotope Van #2

Updated 22 April 2024

Radioactive materials on board a research vessel pose particular problems not found at inshore laboratories. The USAP vessels provide separate shared-use radioactive (rad) laboratories (vans) to control many of the hazards associated with this kind of research. Primarily, these vans are designed to protect the isotope research participants, vessel passengers, crew, the other vessel spaces, and the environment from radioactive contamination. In order to maintain a safe working environment during cruise events research scientists and ASC personnel have a particular obligation to assure the following:

- Careful procedures applied by research participants
- Proper monitoring conducted as a daily routine
- Routine clean up of work spaces
- Records properly maintained and reported

This van has been designed and designated for radioisotope research utilizing carbon (^{14}C) and tritium (^{3}H).



REAR WALL INTERIOR PERSPECTIVE

FRONT WALL INTERIOR PERSPECTIVE

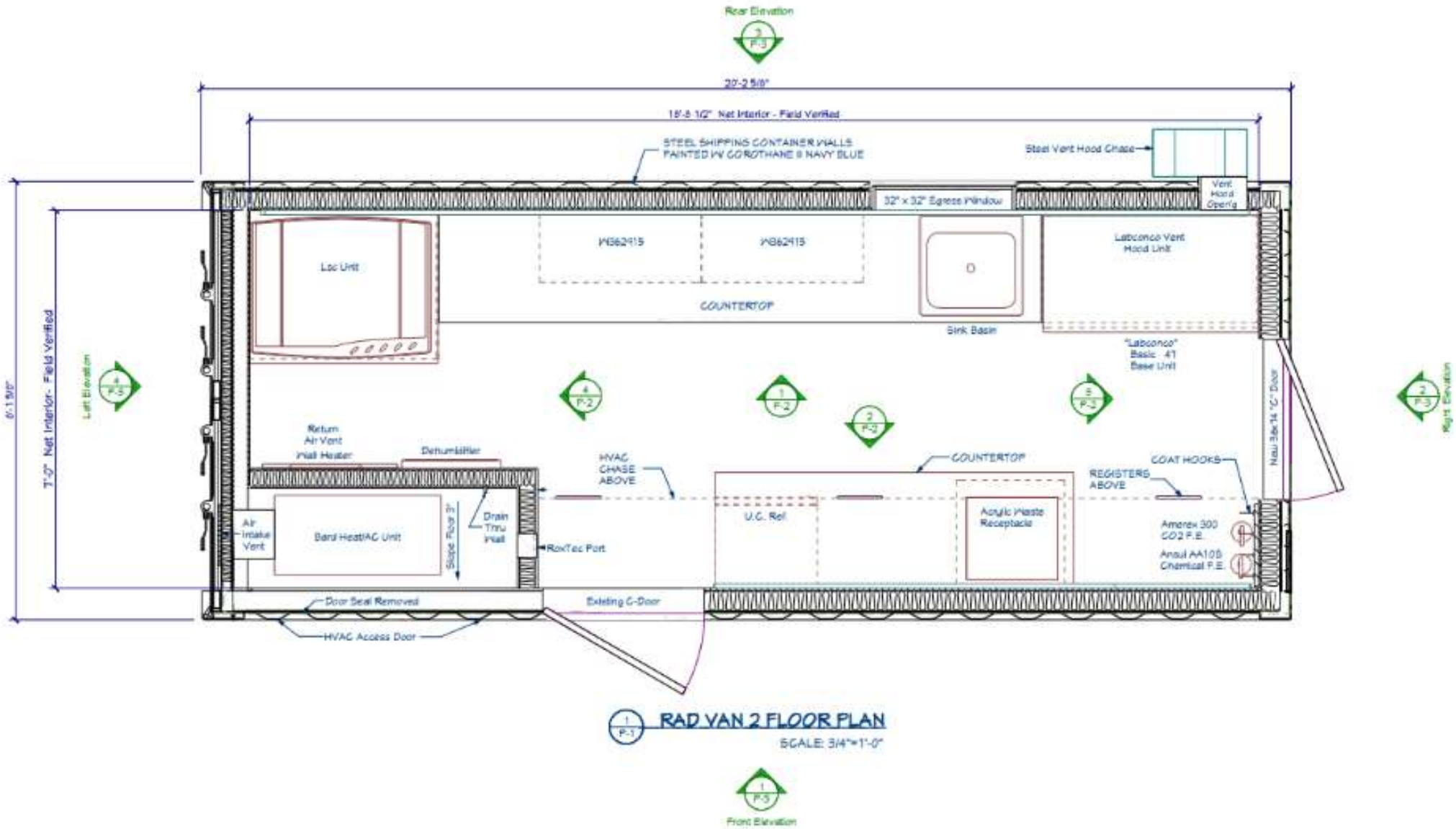
Rad Van #2 refurbished in 2019
Hammelman Communications
Pagosa Springs, Colorado

Rad Van #2 Features and Technical Information

General	
Owner	National Science Foundation
Manufacturer	Hammelman Communications
Purchased	2003
Refit	2019
Condition	Excellent

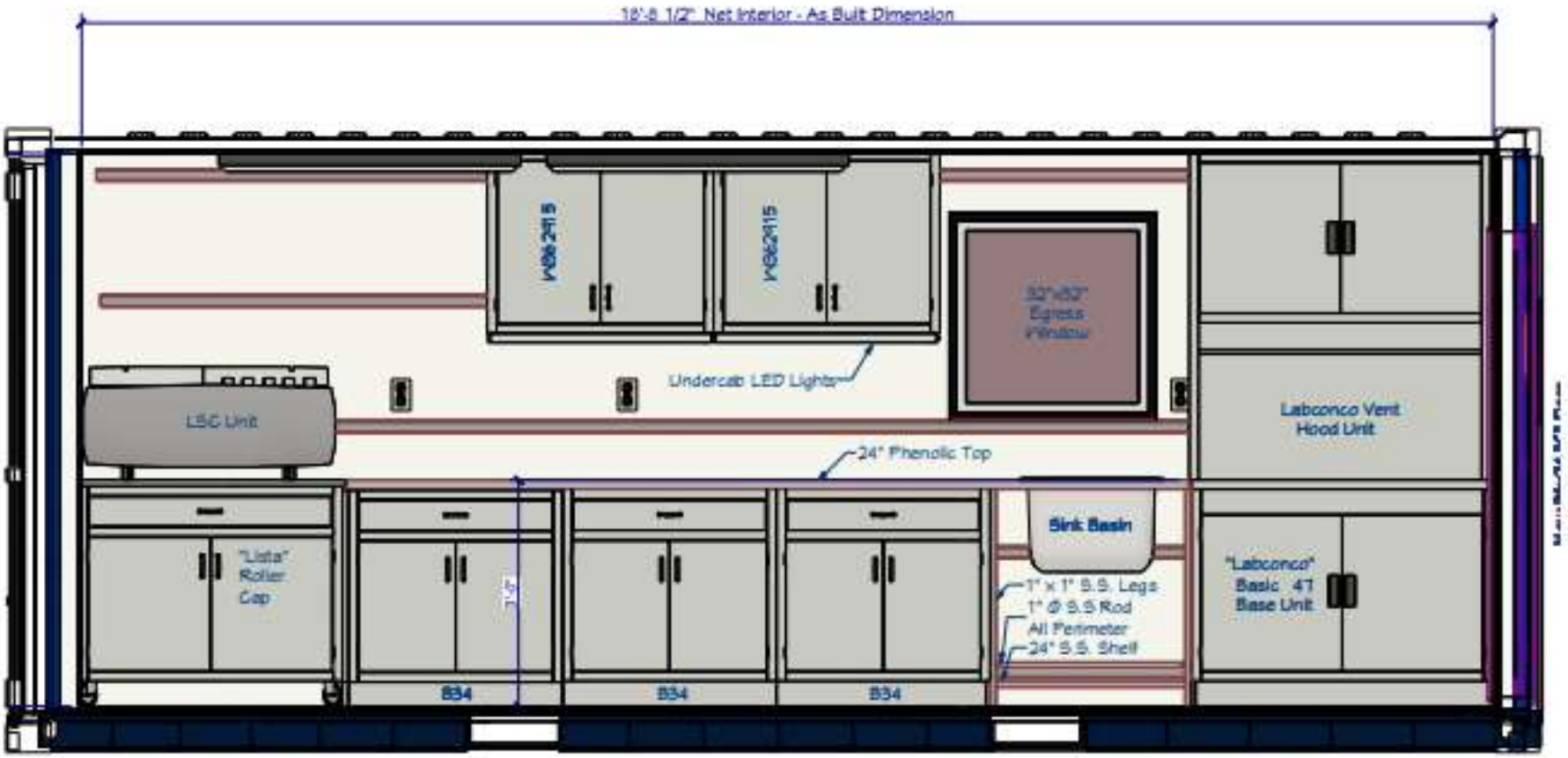
Specifications	
Length Overall	18.33 ft
Width	6.81 ft
Electrical	6 ea. 110V 20 amp outlets 3 ea. 208V 15 amp single phase power
Ventilation	Forced heat air with 3 in. insulated walls

Installed Equipment
Perkin Elmer Liquid Scintillation Counter B2910TR w/ laptop and QuantaSmart software. New 2015
Racks for 7ml and 20ml vials
Ventilation hood capable of 125 lfm
Corrosives Locker
Refrigerator
Windows and Emergency Egress Hatch
2 person doors and double door for cargo
Haz waste receptacles
Fire Extinguishers, Spill Cleanup, Eyewash
Secondary containment
UNOLS RVSS compliant
Not plumbed for running water



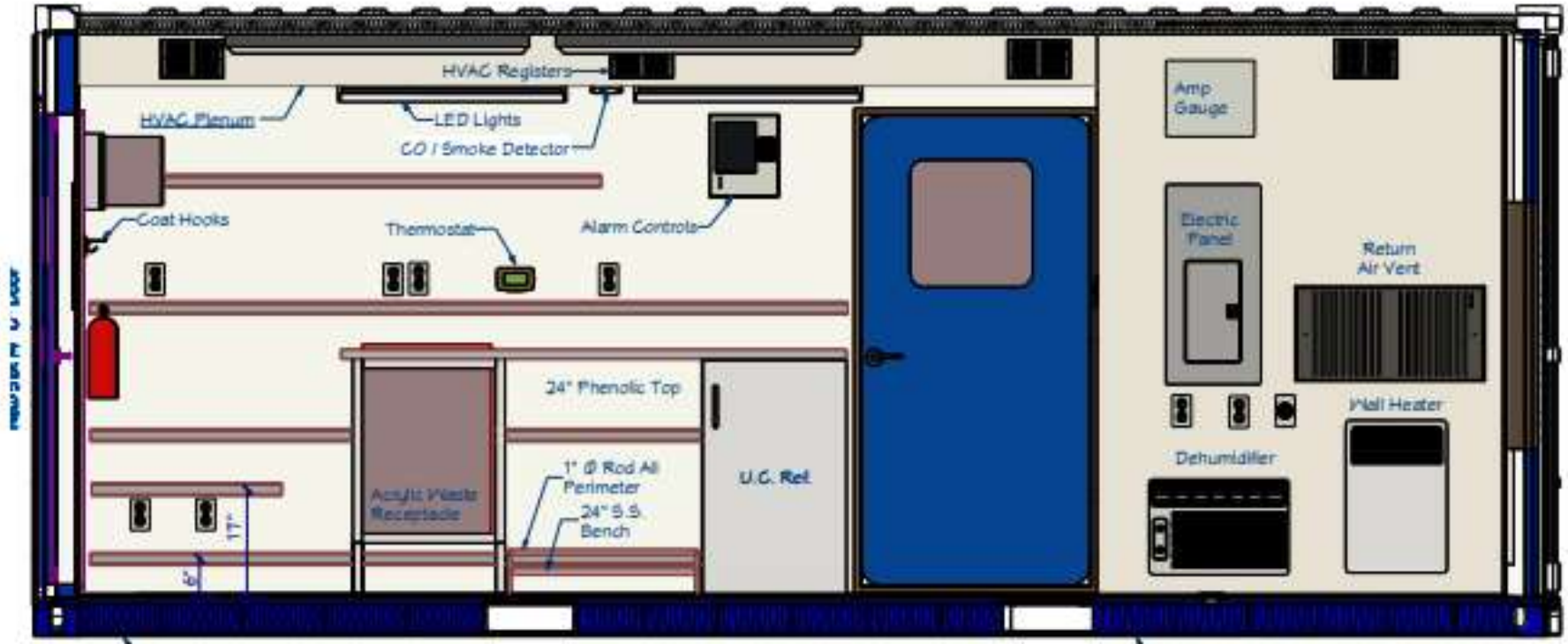
RAD VAN 2 FLOOR PLAN

SCALE: 3/4"=1'-0"



1/P-5 INTERIOR ELEVATION 1

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



2 / P-2 INTERIOR ELEVATION 2

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