

Project Title: ORCAA – Mt.ViewAirMonitorShelter

Project Number: ORCAA-MTV-010625

Questions and responses:

Important: Please ensure your proposal meets all WA state building codes, requirements, and certifications for pre-fabricated or modular buildings.

<https://lni.wa.gov/licensing-permits/manufactured-modular-mobile-structures/modular-other-mobile-structures/>

1. Are you wanting a full raised roof decking system?
 - a. **We are not opposed to a raised roof decking system depending on additional cost. If this is an option, please add to the bid as a line item with the separate cost identified. Site operators need to access and work safely on the roof.**
2. The design notes (3) 6" cable pass-thru ports extending above the "floor grate." Are these entry points to be through the floor or the roof? These can also be done through the walls.
 - a. **We would like the pass-through ports to be from the interior of the shelter through the roof. If a raised roof deck is installed, we want the port openings to extend above the roof decking at least 3" as it will be easier to work with and configure.**
3. For either penetration point... can I assume you want a means to be able to water seal AFTER all of the cables are passed through the penetration points?
 - a. **We will need a means to add a water seal after passing cables or sample inlet lines through the points; we do not expect the bidder to provide this. However, we may not use all the pass-through ports immediately and expect bidders to provide weather tight plugs for when we are not using the ports.**
4. Is a modified shipping container suitable for this application, or do you prefer or require a purpose-built modular structure?
 - a. **We are open to all workable ideas. If the shipping container passes WA state/Thurston County/City of Lacey inspections and certifications,**

and the North Thurston School district approves the design, I don't see why it would not work. It does have to meet the size specifications of 8' X 12', as that is the footprint we have at the school. I recommend submitting a quote for both options.

5. The desired building doesn't appear to be a trailer mounted system, please confirm.
 - a. **Correct. The unit will sit on the ground.**
6. Based on the above question, if the unit is installed on the ground, is there a requirement for ground anchoring or connection points to attach to?
 - a. **I don't know yet how the building will be anchored. We need to comply with WA state/Thurston County and City of Lacey requirements for the structure.**
7. If the unit is a modular structure (non-container based), is there a preference for wood or metal walls and roof?
 - a. **We would prefer metal or fiberglass walls, and a metal roof. We will need a rooftop platform with railing; metal is preferred.**
8. Regarding insulation:
 - 8.1. Target R value for the walls and roof?
 - a. **All applicable state and local requirements regarding R values must be met and the structure must pass inspection and certification by WA State.**
 - 8.2. Is the floor required to be insulated and if so, is there a target R value?
 - a. **See response to question 8.1.**
9. Regarding electrical :
 - 9.1. Can you please specify the incoming power requirement (typically for applications like this we'd assume it to be something like single phase, 100 amp, 240/120V)
 - a. **Yes, your assumption is correct. See attached pictures at the bottom. The current panel is rated at 125amps. There is no meter, so I assume it is a subpanel from one of the school's main panels. The HVAC unit will be the determining factor on power requirements.**

- 9.2. Is the exterior connection done via an external disconnect, overhead weather head, or through a conduit from the side wall or floor
- a. **The current shelter receives power via a conduit from the side wall (see attached photo at the bottom). We are open to recommendations with respect to future power configuration.**
10. Are painted plywood walls with sealed joints suitable for the interior?
- a. **We would prefer, metal, fiberglass, or drywall for the interior, but are open to other options that look clean and meet applicable code requirements.**
11. Is there a requirement for exterior paint... we can provide standard paint or use a commercial grade paint for longer wear?
- a. **We would prefer a commercial grade paint. Ideally the paint color will match the other outbuildings in the area. The school will provide the color formula.**
12. Regarding door and related hardware... is there any spec regarding door type for this application?
- a. **A standard exterior door with a locking doorknob and deadbolt, both opened with a single key, is desired.**
13. Is a panic bar preferred for the interior or standard lever handle?
- a. **No preference**
14. Is a deadbolt required?
- a. **Yes.**
15. Does the door require a small window with or without security mesh?
- a. **No windows. A ventilation fan in a side wall is necessary.**
16. Air conditioning – is there a spec for BTU's or size, or type of unit preferred?
- a. **We don't have a preference other than lowest energy use that can maintain near room temperature at 75°F (+/-5°F). It must pass WA state/local inspections and certification requirements.**
17. Floor coating or surface – is there a preferred type of flooring, as we can provide an inexpensive vinyl flooring or use a commercial grade top-coat with anti-skid added if you'd like.

- a. **Either would be fine, whichever is more cost effective.**
18. Overhead deck, is this a full metal deck and railing system?
- a. **I assume the overhead deck will be metal, but we are open to other suggestions. It needs to support site operators and mounted equipment.**
- 18.2. Would expanded metal be preferred?
- a. **Depends on price and manufacturer recommendation.**
- 18.3. Is there any preference for it being galvanized vs painted?
- a. **Galvanized steel, aluminum, or equivalent metal railing is acceptable.**
19. Can site visits be arranged.
- a. **Yes. On-site visits or virtual visits can be arranged with Odelle Hadley odelle.hadley@orca.org until December 31st. A virtual visit will involve a video call where I can walk around the site and show the bidder details of interest. Odelle will be unavailable on Saturdays, Sundays, and December 23rd, 24th, and 25th.**

Pictures:

Structure to be replaced



Electrical going into the building



Electric Panel and details currently serving the shelter



G1624ML1125

Ratings:
 125 Amps. Max.
 See Main Breaker Rating If Used
 120/240 Volts AC 1 Phase 3 Wire
 208Y/120 Volts AC 1 Phase 3 Wire
 For grounded B Phase systems
 use 240 VAC Breakers Only.

Suitable For Use As Service Equipment

when used as service equipment
 all unused neutral branch
 terminals can be used as
 equipment grounding wire
 terminals.

JUN 03 1998

SIEMENS

Indoor Load Center

Catalog Number **G1624ML1125** Series **.E** Enclosure **Type 1**

USE COPPER OR ALUMINUM 60°/75° C WIRE

Ratings:
 125 Amps. Max.
 See Main Breaker Rating If Used
 120/240 Volts AC 1 Phase 3 Wire
 208Y/120 Volts AC 1 Phase 3 Wire
 For grounded B Phase systems
 use 240 VAC Breakers Only.

Suitable For Use As Service Equipment

when used as service equipment
 all unused neutral branch
 terminals can be used as
 equipment grounding wire
 terminals.

General:
 Remove twistouts from trim only
 where breakers will be installed.
 All openings must be filled with
 breakers or filler plates.
 Circuit breaker overload trip
 position is indicated by handle
 position midway between ON and
 OFF. To reset, move handle to
 OFF position then turn ON.

Terminals	Wire	Torque
A, B, N	2/0-4 AWG	135 lb.-ins.
G	2/0-4 AWG	45 lb.-ins.
Neutral/ Ground (Use Type GB Ground Bar Kits Accessory)	14-10 AWG	20 lb.-ins.
	8 AWG	25 lb.-ins.
	6 AWG	35 lb.-ins.
	4 AWG	45 lb.-ins.
Grd. Conductors Only	(2)or(3) 14-10 AWG	20 lb.-ins.
LK1-2(Accessory)	1/0-2 AWG	45 lb.-ins.
LK2(Accessory)	2/0 AWG	135 lb.-ins.
LK3(Accessory)	300 kcmil - 1 AWG	340 lb.-ins.
LK4(Accessory)	300 kcmil - 1 AWG	340/
	2/0 - 4 AWG	135 lb.-ins.

Branch Breakers See Marking On Breaker

Accessories	
Description	Cat. No.
Ins. Neutral Tie Strap	INTS
Main Breaker Retainer	MBR1
Door Lock	QFL2
Trim Screw	TS2
Padlock Device for QP Breakers	QLD3
Padlock Device for QT Breakers	QLD4

Accessories	
Description	Cat. No.
Filler Plate	QF3
Subfeed Lug Kit	LK2125
Subfeed Lug Kit	LK2150
Subfeed Lug Kit	LK2225

For installation in accordance with
 all local electrical codes and/or the
 National Electrical Code®.

! DANGER

Hazardous Voltage.
 Will cause death, serious
 injury or substantial
 property damage.

Turn off power supplying this
 equipment before working inside.

! PELIGRO

**Voltaje peligroso. Causará la
 muerte, lesiones graves o daño
 substancial a la propiedad.**

Desconecte el suministro de energía
 a este equipo antes de trabajar
 en su interior.

UL
 LISTED
 CLASS CTL
 ENCLOSED PANELBOARD
 ISSUE NO. C-1378

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