

ITEM S-146 PASSENGER WAITING SHELTER

DESCRIPTION

146-1.1 Design, and furnish all labor, materials and equipment required to construct a passenger waiting shelter at the location and in accordance with the conceptual plan shown on the plans. The shelter shall be designed by the Contractor, however a prefabricated structure will be accepted pursuant to the requirements outlined on the plans and these specifications.

MATERIALS

146-2.1 Comply with International Building Code (IBC 2009) and contain at a minimum, the following:

1. ___ square feet of floor area.
2. ___ square feet of window area.
3. Adequate ventilation.
4. A thermostatically controlled interior heating system with necessary fuel.
5. Adequate electrical lighting and 120 volt, 60 hertz power, with a minimum of 1 electrical outlet.
6. One exterior light to adequately light the entry area.
7. Entry shall conform to the Uniform Federal Accessibility Standards (UFAS) and the 2006 U. S. DOT ADA Standards for Transportation Facilities.
8. Roof shall be designed to shed to the sides so snow does not fall on entry way area.
9. The interior surface of the floor shall be finished and/or treated in order to be slip-resistant.
10. The exterior of the structure shall have a weatherproofing sealer, material or compound applied that is suitable for arctic climate use.
11. The structure shall be constructed of vandal resistant materials.
12. Paints and pigmentation shall be lead-free and shall have a minimum ten (10) year warranty.

Comply with GCP Subsection 60-08 for submittals.

DESIGN CRITERIA

146-2.2. It is the responsibility of the Contractor to furnish design and fabrication drawings for the shelter. This includes structural, electrical, mechanical, and foundation designs that are stamped by a registered Civil Engineer in the State of Alaska. Submit plans and working drawings in accordance with GCP Subsection 50-02. The drawings are to include floor plan view with dimensions, component and appurtenance layout with dimensions and material detail and plan sheets with exterior dimensions and elevation views.

- a. Design of the passenger waiting shelter shall include the following:
 - (1) Design roof snow load: minimum 200 pounds per square foot (psf)
 - (2) Design floor load: minimum 150 psf
 - (3) Design wind load: minimum 120 miles per hour (mph)

- (4) Seismic design category: D1 event
- (5) Roof pitch: 4H:1V minimum/3H:1V maximum
- b. If a prefabricated structure, the manufacturer supplying the shelter must meet the following:
 - (1) Provide stamped, engineered fabrication and erection drawings prior to acceptance.
 - (2) Acceptance of drawings to be based on design criteria listed above, building layout and appearance, product material, appearance and function.
 - (3) Manufacturer must be pre-approved by the Engineer prior to ordering.

CONSTRUCTION REQUIREMENTS

146-3.1 Construct the passenger waiting shelter in accordance with the plans, these special provisions and general contract provisions.

METHOD OF MEASUREMENT

146-5.1 This item will not be measured for payment. The Engineer's acceptance constitutes measurement.

BASIS OF PAYMENT

146-6.1 Payment for Item S146.010.0000, Passenger Waiting Shelter, will be made at the contract lump sum amount and will be considered full compensation for all work inside the pay limits noted on the plans. Payment includes the shelter foundation, structural, electrical, mechanical and architectural items and finishes, and all appurtenances. No separate payment will be made for excavation or backfill, if necessary.

Payment will be made under:

Item S146.010.0000 Passenger Waiting Shelter – per lump sum