

Scope of work is as follows:

Replacement of existing 20'-0"x20'-0"x8'-0" food storage freezer at the Escambia County Road Prison facility. The freezer must meet or exceed the following specifications:

- 1) NSF Approved walk-in freezer with the exterior dimensions of 20'-0"x20'-0"x8'-0, 4" thick extruded polystyrene, 26ga stucco embossed galvalume exterior, 26ga stucco embossed galvalume interior.
- 2) Floor- 20'-0"x20'-0", wood reinforced, extruded insulation, 26ga stucco embossed galvalume exterior, 22ga stainless steel interior. Floor does not need to be rated for forklift, pallet jack, or hard wheeled carts.
- 3) Door- 1ea 34-inch X 76-inch, low temperature outside, with floor, commercial grade door handle, adjustable spring loaded hinges, door closer, drip cap and screws. Door is to be positioned right hinge centered on front length wall. LED light and LED thermometer to be installed at door. Door shall also include 1ea 1/8" interior and exterior kick plate 34" wide, 32" high to include exterior door frame legs, locking bar with inside release for 34" door.
- 4) Rain Roof- Single membrane polyester polyvinyl chloride roof system, white material, with all necessary connectors and sealants to completely cover freezer roof.
- 5) Freezer will include all Florida Wind Code certifications and engineering documents, and required hardware needed for outdoor installations.
- 6) Pressure relief must be factory installed
- 7) Strip curtain for low temperature operation of 40-inch X 84 inch
- 8) Interior lighting must be at least 4ea four-foot LED fixtures approved for low temperature operations with secure fasteners to prevent removal without specific tool.

Refrigeration systems for above freezer must meet or exceed to following specifications:

- 1) Condensing units- 2ea, 4hp, 208/230V 3ph 60Hz, Scroll compressor, R404A or equivalent refrigerant, to maintain a temperature of at least -10deg F., SST of -20deg F, with ambient temperature of 110deg F, sight glass, filter drier, low ambient control, low pressure control, high pressure control all must be factory installed, units must be rated for outdoor installations with enclosure.
- 2) Evaporator 2ea- Evaporator will be for low temperature operations with required heaters, expansion valves, solenoid valve with manual open and coil of proper voltage, ECM motors, must be factory installed. Voltage required is 208/203V 1Ph 60Hz. One evaporator per condenser.
- 3) Both refrigeration systems will operate independently of each other, but will both operate as needed to maintain a temperature of -10deg F. All controls needed to facilitate proper operations must be provided, including digital temperature controls, digital time clocks and drain line heaters.
- 4) Systems provided must have manufacturing specifications showing the condenser/evaporator will work properly to maintain temperatures as specified.

Contractor install of above freezer and required refrigeration systems must also include to following:

- 1) Contractor must remove existing 20'-0"x20'-0"x8'-0 freezer and all refrigeration systems from site and dispose of them in the proper manner.
- 2) Contractor must ensure that the site for the new freezer acceptable and safe for installation.
- 3) Contractor must provide all materials including copper, refrigerant, electrical needs, and any other items needed to install freezer and equipment for proper operations and to meet code requirements.
- 4) Copper lines must be sized per manufacture specifications. All cooper must be Type "L" hard drawn.
- 5) All copper lines will be securely mounted via 1-5/8" deep unistrut and vibraclamps that match required copper size. Unistrut shall be mounted to concrete by Hammerset style anchors at least ¼ in diameter and 2" long. Unistrut shall be mounted to freezer by screw in style anchors with at least a 50lbs per anchor holding capacity. All unistrut will have a minimum of two anchor points. Unistrut will be spaced a minimum of 18" apart, with a maximum of 24" apart.
- 6) All drain lines will be a minimum of 7/8" O.D. copper, with drain line heater, with copper union installed inside near evaporator, and "P" trap installed at the end of the drain line.
- 7) All copper lines that must be insulated will have a minimum thickness of ¾ inch insulation. All joints must be glued with appropriate type insulation glue.
- 8) All electrical wire will be in rigid conduit of either PVC or metal of the appropriate diameter for the size/amount of wire required. Wire may be contained in flexible conduit of less than six feet.
- 9) Electrical conduit must be secured to either 1-5/8" unistrut with appropriate size conduit clamps or one-hole conduit clamps. Electrical conduit may share the same unistrut as the refrigeration lines if adequate space is available. If no space is available clamps must be secured to concrete with ¼" diameter and 2" long hammerset style anchors, and to the freezer with screw in style anchor with at least 50lb per anchor holding capacity.
- 10) Contractor must meet all required certifications and standards set forth by Escambia County, Florida and installation must meet all codes national and state.
- 11) Contractor must keep job safe and secure during installation during duration of the job. Installation will be at a prison facility and all precautions must be taken to insure nothing is left exposed during job that can be used to cause harm to guards, inmates, or any other members of staff or Escambia County employees.
- 12) Freezer must maintain temperature of at least -10deg F for a period of 24hrs after facilities and prison administration has inspected installations and any punch list items resolved before final invoice is submitted for payment.