

Campbell County Utilities and Service Authority

Storage Building Bid Specifications

Scope:

This project involves the construction of a new storage facility for CCUSA at the wastewater treatment facility in Rustburg, Virginia. The site is located at the end Moseley Lane, Rustburg, VA 24588. The new storage building will be located between the entrance fence and solids storage bin as shown on the sketch.

General Notes:

1. **A site visit is mandatory** in order to bid on this project. The site visit can be coordinated with Josh Pribble, Operations Superintendent (434) 239-8654.
2. The work site should be kept clear of debris, and cleaned up at the end of each workday
3. There will be limited Erosion and Sedimentation requirements for the project. They shall consist of silt fencing as needed to prevent soil migration, grading and reseeding of any disturbed areas.
4. All Concrete shall have 3,500 psi compressive strength and comply with "Building Code Requirements for Reinforced Concrete", AC 1318. Water, cement, and aggregate shall conform to sections 218, 219, 216, 202, and 203 of Virginia Department of Transportation Roads and Bridge Specifications for Class A3 concrete. The concrete shall be proportioned to secure the desired strength and required durability. The Contractor shall submit, or have his source of supply submit to the Operations Superintendent, for approval the concrete mix design
5. The contractor is responsible for obtaining a building permit.

Technical Specifications

1. Grading will be required to remove topsoil to allow for the installation of concrete footings and concrete slabs. Also skim the topsoil from the area of the building to allow for a level 6" thick gravel base of #57 stone over the entire area of the building. The Authority will provide a place for disposal of any soil material excavated from the footers.
2. It is expected the building shall be provided by a metal building fabrication company. The contractor shall be responsible for subcontracting with the supplier of the building package to provide all the required plans, specifications and calculations for review and approval by the Operations Superintendent and the County Building Official. The design package shall be sealed by a Licensed Professional Engineer and include footing design (monolithic slab), wind and

snow load calculations, fabrication plans and details. Design shall comply with the 2012 VCC for all design standards.

3. The storage building shall be 42' X 42' completely enclosed with metal siding on all sides. The A frame roof shall have a minimum 2/12-foot slope with a 12' minimum clear height at the north end. The west side shall have three (3) framed 12' high by 10' wide opening for roll-up doors. The south side shall have one (1) framed 36" personnel door.
4. The building sides on the north and east ends shall be completely enclosed.
5. All roof and wall panels shall be 26-gauge 3 rib galvanized metal. Metal roofing system shall be tested in accordance with UL580, Class 90 rating. Metal roof panel system shall have no water leakage at a pressure differential of 6.24 psf. when tested in accordance with ASTM C1646. Locate and space all exposed roof and side panel fasteners in accordance with the manufacturer's recommendations. Provide all metal trim accessories to complete the installation. Color to be selected by the owner.
6. Submit a letter to the owner, prior to start of the project, from the manufacturer identifying the installer of the metal roofing system as an authorized installer, approved by the manufacturer.
7. Provide 6K type gutters along the entire length of north and south side with three 4" downspouts located at each end and at the center point. Material and color shall match roof material. Attach per manufacturers' recommendations.
8. Touch up minor scratches and abrasions per manufacturer's recommendations and to comply with warrantee.
9. Provide a one-year warrantee on workmanship, a five-year warrantee for leakage on the roof and a twenty-year warrantee on the paint. Warrantee letter shall be provided before final payment.
10. The top of the concrete slab shall be a minimum of 6" above the existing grade for the area. Use some of the existing topsoil type material removed during construction to backfill around slab to provide positive drainage away from the building.
11. Design, provide and install a reinforced concrete slab with vapor barrier under the entire enclosed area (42' X 42'). Final thickness and reinforcement are to be based on engineer's design. Concrete shall be as specified above and finished smooth and level. Slope slab to drain toward doors. The concrete floor shall be coated with penetrating liquid floor treatment for interior surfaces. Sealer shall be a clear, chemically reactive, waterborne solution of inorganic silicate or silicate materials applied per the manufacturer's recommendations.
12. Per the sketch provide a 2' wide reinforced concrete apron with a minimum thickness of 6" placed on a 6" stone base across the front of the building. Also

provide a 4" thick sidewalk on a 4" stone base. Both to receive a light broom finish.

13. Provide and install one (1) new 100-amp interior subpanel breaker box (Square D) and connect to the electrical power supply in the existing blower building. Provide fourteen (14) duplex receptacles (1 on each column in the main open storage area and 4 along the south and east walls). Exact locations coordinated with owner. All wiring shall be run overhead and installed down the columns in rigid conduit to the weather resistant GFCI NEMA rated receptacles.
14. Each bay shall be lighted with two LED elements with a minimum of six fixtures in each row, placed with a minimum clearance of 12'. A minimum of twelve (12) lights shall be provided and installed in the building. The fixtures shall be Lithonia LED T8 lights shall contain 2-4' LED elements without louvers and being designed for wide area use. Provide one switch in between bays on the west side of the building and one located at the personnel door on the south side of the building. Provide and install three - dusk to dawn LED type security lights with photo eye. Exact location coordinated with owner.
15. Provide and install one (1) thermostatic controlled electric exhaust fan with louvers that automatically opens and closes when the temperature rises above set point. The unit shall be installed in the rear (east) wall to provide air flow during periods of high temperatures.
16. Provide and install one (1) thermostatic controlled electric heater that automatically energizes when the temperature falls below set point. The unit shall be installed in the area near the south & east walls. Coordinate exact location with the owner.
17. Provide three (3) 10' wide X 12' tall garage door such as one manufactured by C. H. I. Overhead doors model number 2250 uninsulated or approved equal. The door shall be constructed on 25 gage steel with finish and color to match metal siding. Provide all hardware and installation per manufacturer's recommendations. The installer shall be approved by the manufacturer and have at least three years of experience in installing doors of this type. The Warrantee shall be for one year on the materials and workmanship and one year on the springs.
18. The personnel door and the overhead doors shall be keyed alike. Coordinate with Operations Superintendent for specific locksets.
19. Install five (5) 6" diameter concrete/metal bollards building and door protection. Coordinate exact location with Owner. Bollards shall have a 12" concrete base, be filled with concrete, and painted bright "safety" yellow.