



KNOX COUNTY SERVICE MAINTENANCE BUILDING

CHALLENGE

KNOX COUNTY NEEDED A NEW MAINTENANCE AND STORAGE FACILITY THAT MET THE COUNTY'S SERVICE NEEDS WHILE BLENDING INTO THE HISTORIC, DOWNTOWN ARCHITECTURE.

SERVICES

- Architectural Design
- Code Review
- Construction Administration
- Mechanical Engineering
- Electrical Engineering
- Structural Engineering
- Site Civil Engineering

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The one-story, 1,700-square-foot maintenance building is used as a garage and storage for parts and equipment for the Knox County Engineering Department. The facility is located in historic downtown Mount Vernon.

In the planning and design phases, this project included:

- Preparation of site layout alternatives
- Preliminary code research
- Preparation of site plans including final site layout
- Grading plan and utility plan
- Contacting local agencies to obtain regulations

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The final maintenance building design incorporates three service bays, one drive-through wash bay, and an additional work area. The floor of the building is equipped with an under-slab radiant heating system. This type of heating system is a more energy efficient and sustainable alternative for a maintenance building.

Additionally, it creates a more comfortable work environment for employees. re than 1.3 million square feet of retaining walls.

MATCHING ARCHITECTURE STYLE

The biggest design challenge was to ensure the Knox County maintenance building matched the look and feel of downtown Mount Vernon. To align with the rich, historical architectural heritage of the downtown area, the team carefully assimilated the utilitarian-style maintenance building.

Special design considerations were made to ensure the facility respected the architectural style of the surrounding area. The design team carefully studied

the architectural fabric of the area and incorporated design elements into the maintenance facility, blending the building into its historic surrounding.

The exterior design of the new maintenance facility is carriage-house style. Strategically blending the utilitarian building into the surrounding historic, downtown architecture. This style utilizes masonry, stone veneer, and painted composite siding.