

## **Fort Lewis Fire and Rescue Station #9**

**3915 West Main Street Salem, VA 24153**

**March 3, 2021 – B&A Project #04210009.00**

Bid Documents:

1. Project Scope and Paving Specifications
2. "Fort Lewis Fire Station Paving Plan" prepared by Balzer and Associates, Inc., dated 3/3/2021

Roanoke County is requesting written quotations from qualified contractors for a concrete and asphalt pavement rehabilitation project located at the Fort Lewis Fire and Rescue Station #9 (3915 West Main St. Salem, VA 24153).

Bidder shall provide a lump sum price for the Base Bid work described below. In addition to this, the Bidder shall provide unit prices as follows:

- Unit price (per c.y.) for removal of any unsuitable subgrade material identified, to include disposal off-site.
- Unit price (per c.y.) for installation of additional stone base (VDOT 21B) as may be needed to correct any subgrade issues that are identified.

The scope of the project consists of the following improvements on-site:

### **Asphalt Overlay**

- Overlay approximately 7,030 s.f. of existing asphalt area as identified on the Concept Plan. Milling shall be provided as necessary for tie-in to existing entrances, concrete, utility structures, sidewalks, and other existing features, as well as to provide a smooth transition along the proposed work.

### **Asphalt Mill & Overlay**

- Milling of approximately 7,230 s.f. of existing paved areas as identified on the Concept Plan. Milling shall include the existing surface course (approximate 1.5" depth).
- Inspection of the condition of the underlying base asphalt or stone by general contractor. Notify the owner and engineer of any areas where the base asphalt is compromised.
- Installation of 1.5" compacted depth asphalt surface course using SM-9.5A bituminous pavement.

### **Full Asphalt Removal & Replacement**

- Removal of approximately 4,240 s.f. of existing asphalt surface (approximate 1.5" depth) and base (approximate 3" depth) layers.

- Proofroll of the underlying stone base using a tandem axel, fully-loaded dump truck with County's Geotechnical Engineer present (G.C. to coordinate schedule with Owner).
- Installation of 3" compacted depth asphalt base course using BM-25.0 bituminous pavement and 1.5" compacted depth asphalt surface course using SM-9.5A bituminous pavement.

#### **New Concrete Pad**

- Approximately 96 s.f. of asphalt removal and concrete installation to expand existing concrete fuel pad.

#### **Concrete Pad Removal & Replacement**

- Removal of approximately 64 s.f. of existing concrete pad and underlying stone base.
- Removal and replacement of any unsuitable subgrade materials.
- Installation of new stone base and 6" concrete pad (see specification below).

The work shall be completed as outlined in the specifications below.

#### **Paved Area**

- Milling and/or removal of existing asphalt pavement and existing concrete as shown on the plan to remove distressed asphalt and concrete and disposal of materials off-site. Existing pavement shall be saw cut for removal.
- Filling of any existing potholes with leveling course of asphalt prior to overlay.
- Installation of base course of asphalt in the areas of full asphalt removal with min. 3" compacted depth asphalt using BM-25.0 bituminous pavement. Include a tack coat between the base stone and new asphalt.
- Installation of a surface course of asphalt across all paved areas with min. 1.5" compacted depth asphalt using SM-9.5A bituminous pavement. The installation of the pavement overlay shall include a tack coat between the existing/milled surface and the new asphalt.
- In overlay areas, milling and removal of pavement as necessary to tie-in to existing entrances, concrete, utility structures, sidewalks, and other existing features, as well as to provide a smooth transition along the proposed work and maintain existing drainage patterns.
- Ensure a smooth transition between new pavement and all existing surfaces.
- Contractor shall ensure that the slopes in the ADA spaces do not exceed 2% in any direction.
- All paving materials and methods shall be in accordance with VDOT standards and 2016 VDOT Road and Bridge Specifications.
- Replacement of all existing pavement markings. All pavement markings shall consist of two coats of VDOT Type A traffic paint. Traffic paint shall meet the requirements of Section 704 of the 2016 VDOT Road and Bridge Specifications. Pavement markings shall match the color of the existing markings.

- Removal of existing wheel stops and signs and replacement following the completion of paving operations.
- Haul off and disposal of any additional materials off-site.
- All necessary traffic control devices needed for completion of the project. All traffic control operations shall be in accordance with the Virginia Work Area Protection Manual and shall be coordinated with the owner and VDOT (as necessary).
- Coordination of paving schedule with designated Roanoke County personnel to ensure that the facility remains operational during construction.
- **See Paved Area shown on the attached Paving Concept Plan.**

#### **New Concrete Area**

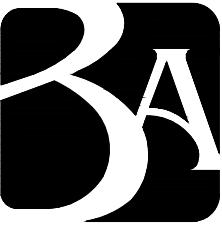
- Removal of existing concrete, reinforcement, and stone base and disposal off-site.
- Subgrade shall be inspected with the Engineer and/or Geotechnical Engineer present and any unsuitable subgrade materials removed.
- Installation of stone base using VDOT 21B.
- Installation of 6" of new concrete pavement. Installation shall be in accordance with ACI 330.2R-17. Concrete shall be 4,000 psi, air-entrained, unreinforced, and shall be doweled into existing concrete. Dowels shall be 18" on center. Expansion joints between new and existing concrete.
- Ensure a smooth transition between new concrete and all adjacent surfaces.
- Ensure that existing drainage patterns are maintained.
- Haul off and disposal of any additional materials off-site.
- All necessary traffic control devices needed for completion of the project. All traffic control operations shall be in accordance with the Virginia Work Area Protection Manual and shall be coordinated with the owner and VDOT (as necessary).
- Coordination of paving schedule with designated Roanoke County personnel to ensure that the facility remains operational during construction.
- **See Concrete Area shown on the attached Paving Concept Plan.**

#### **Expansion of Existing Concrete Fuel Pad**

- Removal of existing asphalt pavement layers and disposal off-site. Stone base to remain.
- Leveling of stone base, as necessary.
- Inspection of existing stone base. If any soft areas are encountered, notify the engineer immediately.
- Installation of 6" of new concrete pavement. Installation shall be in accordance with ACI 330.2R-17. Concrete shall be 4,000 psi, air-entrained, unreinforced, and shall be doweled into existing concrete. Dowels shall be 18" on center. Expansion joints between new and existing concrete.
- Ensure a smooth transition between new concrete and all adjacent surfaces.

- Ensure that existing drainage patterns are maintained.
- Haul off and disposal of any additional materials off-site.
- All necessary traffic control devices needed for completion of the project. All traffic control operations shall be in accordance with the Virginia Work Area Protection Manual and shall be coordinated with the owner and VDOT (as necessary).
- Coordination of paving schedule with designated Roanoke County personnel to ensure that the facility remains operational during construction.
- **See Concrete Area shown on the attached Paving Concept Plan.**

The Contractor is responsible for verifying all site measurements prior to submitting bids. Site plans have been provided for reference only and actual field measurements are the responsibility of the Contractor.



**BALZER  
& ASSOCIATES**  
PLANNERS / ARCHITECTS  
ENGINEERS / SURVEYORS

Roanoke / Richmond  
New River Valley / Staunton  
Harrisonburg / Lynchburg

[www.balzer.cc](http://www.balzer.cc)

1208 Corporate Circle  
Roanoke, VA 24018  
540.772.9580

## FORT LEWIS FIRE STATION PAVING PLAN

PAVING CONCEPT PLAN

3915 W. MAIN ST.  
SALEM, VA 24153

DATE 03/03/2021  
SCALE 1" = 40'  
REVISIONS

# EX-A

PROJECT NO 0421009.00

### LEGEND

- FULL ASPHALT REMOVAL/REPLACEMENT
- ASPHALT MILL AND OVERLAY
- ASPHALT OVERLAY
- CONCRETE REMOVAL/REPLACEMENT
- ASPHALT REMOVAL/NEW CONCRETE

40 0 40  
1" = 40'

