



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 23, 2021

SUBJECT: Various Routes  
Section 16-00090-02-PV (Algonquin)  
McHenry County  
Contract No. 61G60  
Item 149  
March 5, 2021 Letting  
Addendum (B)

## NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

### **1. Revised pages 7, 8, 9, 11 & 12 of the Special Provisions**

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Jack A. Elston'.

Jack A. Elston, P.E.  
Bureau Chief, Design and Environment

Noise Analysis

Other:

Village of Algonquin Approved Products List  
First Environmental Laboratories Report Dated September 5, 2019

Those seeking these reports should request access from:

Mr. Robert Mitchard, Director of Public Works  
Village of Algonquin  
robertmitchard@algonquin.org  
(847) 658-2700

## **BRICK SIDEWALK**

**Description.** This work shall consist of brick pavers constructed in an ashlar or soldier course (banding) pattern and concrete base on a prepared subgrade. This work shall also include all required sand setting bed, and paver joint material. This work shall be done at the locations specified in the Contract plans or as directed by the Engineer.

**Materials.** BRICK PAVERS shall be clay brick pavers manufactured by Whitacre-Greer. The manufacturer must be enrolled in IDOT's QC/QA program. Color shall consist of a blend of 2 to 3 colors from standard selections.

Web: <http://www.wgpaver.com>

## **BRICK PAVERS**

Ashlar Pattern Field: 3 sizes (6 x 3, 6 x 6, 6 x9) 2.25" thick.

Paver Banding: 4 x 8 clay paver, 2.25" thick.

Pavers shall be chamfered and lugged. Finish shall be smooth.

Materials: Comply with Material standards set forth in ASTM per ASTM C 1272-07, Type F and Type R, Application PS. Slip resistance shall be tested in general accordance with ASTM C 1028-96, standard test method for determining the static coefficient of friction of ceramic tile and other like surfaces by the horizontal dynamometer pull-meter test. Minimum static coefficient of friction shall be .60 for wet and .70 for dry.

Average Water Absorption (ASTM C 140): 5 percent with no unit greater than 7 percent.

Freeze/Thaw Resistance (ASTM C 1645): Resistant to 28 freeze/thaw cycles with no greater than 225 g/m<sup>2</sup> loss of material, or 49 freeze/thaw cycles with no greater than 500 g/m<sup>2</sup> loss of material. Freeze-thaw testing requirements shall be waived for applications not exposed to freezing conditions.

There shall be no variation in the depth of each paver. Pavers with extensive breakage of corners shall be rejected. Field pavers shall be laid as indicated on the plan and shall be an equal mixture of the standard colors. Final colors shall be approved by Engineer or Owner prior to work.

Sand for setting bed shall meet the requirements of Section 1003 of the Standard Specifications for FA-6. Thickness of setting bed shall vary to allow the surface of the pavers to be at the required finished grade. The paver joint material shall be dry sand conforming to ASTM C-144 with all particles passing the No. 16 sieve. Filter fabric materials and accessories shall be as indicated on the drawings. Final selection of filter fabric material shall be approved by the Engineer prior to installation.

**Portland Cement Concrete Base.** The Portland Cement Concrete Base shall be in accordance with Standard Specification Section 353 except for Articles 353.13 and 353.14. Core weep holes as detailed in the plans.

**Construction.** Pavers shall be installed per the respective manufacturer's recommendations. No paver setting work shall be performed when the underlayment has free moisture, ice, or snow, or when the underlayment is frozen. Concrete underlayment shall be sound, clean, and free from debris and materials or substances that will hinder the bond of the setting bed. The top surface of concrete underlayment slab shall not vary more than one half (1/2) inch of its proposed elevation. See detail plans for cross section of typical unit paver system.

To reduce dust during paver installation, pavers shall only be cut using wet saws. No dry cutting is permitted. Cut pavers shall be placed in areas shown on the details in the plans. "L" shaped pavers shall be avoided where possible. Pavers shall be cut radially when joints between pavers on curves exceed 1/8 inch. Radial cut pavers shall be created by trimming both sides of paver. Paver edgings shall be installed per manufacturer's recommendations.

**Sand setting bed.** Sand shall be spread over the concrete base slab to the depth indicated on the plans and filter fabric as a setting bed for pavers. Sand shall be spread 3/4 in. thick, and leveled to required slope and grade. Minimum thickness of sand shall be 3/4" after leveling. Bed shall not be compacted until pavers are installed. Surface tolerance shall be within 1/4 in. of required grade as measured with a 10 ft. straightedge in both the transverse and longitudinal directions.

**Paver installation.** Setting bed shall be protected from damage prior to setting pavers. Pavers shall be set on sand setting bed. Setting shall be done by competent workmen under adequate supervision, and in accordance with manufacturer's recommendations. Pavers with chips, cracks, or other structural or aesthetic defects or those rejected by the Engineer shall not be used. Pavers shall be set true to the required lines and grades in the pattern detailed on the Plans. Pavers shall be tightly butted. Joints between pavers shall be uniform and shall not exceed 1/16 in. There shall be no raised edges, either pavers or materials adjacent to pavers, that could allow someone to trip. The tolerance for such edges shall be 0" - 1/16" maximum in range.

After a sufficient area of pavers has been installed, the pavers shall be compacted by running a mechanical vibratory compactor over the paved surface until the pavers are uniformly leveled, true to grade, and totally immobilized. Where required, pavers shall be accurately cut with a masonry or concrete saw. Cut edges shall be plumb and straight. Scoring and breaking shall not be acceptable. Joints between pavers shall be filled by sweeping sharp sand into the joints. When joints are filled, paver surfaces shall be swept clean of sand. Paver edgings shall be installed per manufacturer's recommendations.

After completion of the pavers, paver installation areas shall be thoroughly swept clean and surface shall be left unsoiled. Where required by the Engineer, surface shall be cleaned with water or an approved cleaner.

**Field Mock Up.** Contractor shall provide a 4 foot by 4 foot field mock up to demonstrate finish, color and pattern of the interlocking paver pavement to be approved by Engineer before installation.

**Method of Measurement.** This work will be measured per square foot for BRICK SIDEWALK.

**Basis of Payment.** This work shall be measured and paid for at the contract unit price per square foot for BRICK SIDEWALK. Concrete base, sand setting bed, joint sand, sealant and stabilizer, and paver edging will be included in the unit price and will not be paid for separately.

## **BRICK PAVERS**

**Description.** This work shall consist of brick pavers constructed in a herringbone pattern at a 45 degree angle and concrete base on a prepared subgrade. This work shall also include all required bituminous setting bed, neoprene tack coat, paver joint material, and concrete restraining edge. This work shall be done at the locations specified in the Contract plans or as directed by the Engineer.

**Materials.** BRICK PAVERS shall be clay brick pavers manufactured by Whitacre-Greer. The manufacturer must be enrolled in IDOT's QC/QA program. Color shall consist of a blend of 2 to 3 colors from standard selections.

Web: <http://www.wgpaver.com>

### **BRICK PAVERS**

Paver: 4 x 8 clay paver, 2.75" thick.

Pavers shall be chamfered and lugged. Finish shall be smooth.

Materials: Comply with Material standards set forth in ASTM per ASTM C 1272-07, Type F and Type R, Application PS. Slip resistance shall be tested in general accordance with ASTM C 1028-96, standard test method for determining the static coefficient of friction of ceramic tile and other like

Ductility: ASTM D 113 at 25°C.,  $\pm 0.5^\circ\text{C}$  (77°F  $\pm 0.9^\circ\text{F}$ )  
5 cm per minute ( $\pm 5\%$ )

**Portland Cement Concrete Base.** The Portland Cement Concrete Base shall be in accordance with Standard Specification Section 353 except for Articles 353.13 and 353.14. Core weep holes as detailed in the plans.

**Construction.** Pavers shall be installed per the respective manufacturer's recommendations. No paver setting work shall be performed when the underlayment has free moisture, ice, or snow, or when the underlayment is frozen. Concrete underlayment shall be sound, clean, and free from debris and materials or substances that will hinder the bond of the setting bed. The top surface of concrete underlayment slab shall not vary more than one half (1/2) inch of its proposed elevation. See detail plans for cross section of typical paver system.

To reduce dust during paver installation, pavers shall only be cut using wet saws. No dry cutting is permitted. Cut pavers shall be placed in areas shown on the details in the plans. "L" shaped pavers shall be avoided where possible. Pavers shall be cut radially when joints between pavers on curves exceed 1/8 inch. Radial cut pavers shall be created by trimming both sides of paver. Paver edgings shall be installed per manufacturer's recommendations.

**Bituminous Setting Bed Preparation.**

- A. Place 3/4-inch deep control bars in parallel directly over base to be used as guides for striking board. Use wood shims under control bars to set proper grade.
- B. Place hot (250°F+) bituminous setting bed material between control bars and strike with striking board to create a smooth, firm, and even setting bed. Additional bituminous material may be necessary to achieve consistent quality setting bed.
- C. After completion of first setting bed panel, advance first control bar and wood shims to next position to prepare next panel. Contractor must carefully fill depressions that remain between panels.
- D. Repeat procedure for successive setting bed panels. No wood shims or control bars shall be allowed to remain in the bituminous setting bed.
- E. Roll hot setting bed with a power roller (not over one (1) ton in weight) to a nominal depth of 3/4 inches. This thickness shall be adjusted so that when the pavers are placed and rolled, the top surface of the pavers will be at the required final grade.
- F. Core weep holes as detailed in the plans.
- G. Apply neoprene tack coat to surface of bituminous setting bed by mopping, squeegeeing, or troweling.

**Paver installation.** Setting bed shall be protected from damage prior to setting pavers. Setting shall be done by competent workmen under adequate supervision, and in accordance with manufacturer's recommendations. Pavers with chips, cracks, or other structural or aesthetic defects or those rejected by the Engineer shall not be used. Pavers shall be set true to the required lines and grades in the pattern detailed on the Plans. Pavers shall be tightly butted. Joints between pavers shall be uniform and shall not exceed 1/16 in. There shall be no raised edges, either pavers or materials adjacent to pavers, that could allow someone to trip. The tolerance for such edges shall be 0" - 1/16" maximum in range. Pavers to be installed in a herringbone pattern a 45 degree angle.

After a sufficient area of pavers has been installed, the pavers shall be compacted by running a mechanical vibratory compactor over the paved surface until the pavers are uniformly

leveled, true to grade, and totally immobilized. Where required, pavers shall be accurately cut with a masonry or concrete saw. Cut edges shall be plumb and straight. Scoring and breaking shall not be acceptable. Joints between pavers shall be filled by sweeping sharp sand into the joints. When joints are filled, paver surfaces shall be swept clean of sand. Paver edgings shall be installed per manufacturer's recommendations.

After completion of the unit pavers, paver installation areas shall be thoroughly swept clean and surface shall be left unsoiled. Where required by the Engineer, surface shall be cleaned with water or an approved cleaner.

**Field Mock Up.** Contractor shall provide a 4 foot by 4 foot field mock up to demonstrate finish, color and pattern of the interlocking paver pavement to be approved by Engineer before installation.

**Method of Measurement.** This work will be measured per square foot for BRICK PAVERS.

**Basis of Payment.** This work shall be measured and paid for at the contract unit price per square foot for BRICK PAVERS. Concrete base, bituminous setting bed, joint sand, sealant and stabilizer will be included in the unit price and will not be paid for separately.

## **BRICK SIDEWALK REMOVAL**

### **Description.**

This work shall consist of the removal of existing brick/concrete paver, stone, and/or any other type of specialty sidewalk at locations and to the limits as directed by the Engineer.

The Contractor shall carefully remove, salvage, and stack the existing brick pavers in the parkway (within the R.O.W.) for the Village to pick-up. Removing brick from the project limits will not be allowed.

**Method of Measurement and Basis of Payment:** This work shall be paid for at the contract unit price per SQUARE FOOT for BRICK SIDEWALK REMOVAL, which shall include all equipment, materials and labor to perform the described work.

## **CATCH BASINS AND MANHOLES**

**Description.** This work shall consist of constructing catch basins and manholes of the size indicated on the plans, together with the necessary cast iron frames and lids, in accordance with Section 602 of the "STANDARD SPECIFICATIONS for Road and Bridge Construction", except as specified herein. IDOT Standard manholes may be used where applicable. It is the Contractor's option to use precast manholes or cast-in-place to perform this work.

Closed lids for storm sewer manholes shall have the word "STORM" cast into them. All structures shall receive rubber adjusting rings and chimney seal. Structures in the B-6.12 curb line shall receive East Jordan 7010 frame with East Jordan 7010-T1 back and East Jordan 7010-M3 sinusoidal grate for slopes up to 3% and East Jordan 7010-M4 vaned grate for slopes over 3%. Structures in the depressed B-6.12 curb line shall receive East Jordan 7065