



## ELLCOTTVILLE ENGINEERING DEPARTMENT

17 Mill St. Ellicottville, New York 14731  
Phone: (716) 699-9005 Fax: (716) 699-2334



### PROJECT SCOPE OF WORK

<b>PROJECT TITLE:</b>	Monroe St. Streetscape
<b>LOCATION:</b>	Monroe St. - Ellicottville, NY 14731
<b>EVL ENG POC:</b>	Niles C. Pierson, PE - Town and Village Engineer - 716-699-9005 Niles.C.Pierson@evlengineering.com

Location: **Southwest Side of Monroe St. between "The City Garage" and Rt. 219/242**  
- **Approximate length - ~200 ft**

I. Existing Utilities: The Contractor shall field verify the location and availability of existing utilities.

II. Site Investigation: Investigate the site to ascertain the general and local conditions that can affect the work or its cost. **A Pre-Bid Site Visit is MANDATORY and is scheduled for 8:00AM on Monday, June 25<sup>th</sup>, 2018 at the project site.**

III. Continuity of Facilities Operation: Schedule work to minimize interference with normal operations.

IV. Notification of Start and Completion of Work: The Contractor shall notify the Ellicottville Engineering Department **(7) days** prior to start of work.

V. Recycling and Disposal of Refuse: Refuse, excess or waste materials resulting from construction operations shall become the property of the Contractor and shall be recycled and/or disposed of as specified in the Scope of Work. All disposals shall be done in accordance with federal, state, and local laws and regulations.

VI. Safety: During the execution of this contract, the Contractor shall conform to the rules and regulations as set forth by OSHA Safety and Health Standards, 29 CFR Part 1926 - Safety and Health Regulations for Construction.

VII. Contractor Identification: Contractor and subcontractor personnel shall, at all times, wear company identification.

VIII. Permits, Licenses, and Insurance: The Contractor shall obtain all appointments, licenses, permits, and insurance required for performance of work and for complying with all applicable Federal, State, and local laws and regulations. Evidence of such permits and licenses shall be provided to the Town and Village Engineer upon request.

## SCOPE OF WORK:

### **RELEVANT SOURCES**

*International Building Code (IBC), 2015 and NYS Supplement*  
*ACI 318-11; Building Code Requirements for Structural Concrete*  
*NYS Department of Transportation – Standard Specifications*  
*ADA Standards for Accessible Design*  
*ASTM Standards for Portland Cement / Steel Reinforcement*

### **REQUIRED SUBMITTALS**

- *Subbase Aggregate Gradation – Mix*
- *Concrete Mix Design – Sidewalk*
- *Exposed Aggregate Sample Photo*
- *Geoblock Pavement System Specs*
- *Admixture/WWF Product Data*
- *Sealant Product Data*
- *Concrete Mix Design – Apron*

Provide all material, labor, equipment, and supervision to complete the following scope of work:

Construct a new “Streetscape” on the southwest side of Monroe St. between “The City Garage” and the Rt. 219/242 intersection. The new streetscape shall include the construction of a new sidewalk, bench platforms, exposed aggregate building entrance aprons, and green space landscaping alterations as specified below. Any questions regarding the location of the specified scope of work shall be brought to the attention of the Ellicottville Engineering Department.

### **CONCRETE SUBBASE**

- A minimum 6” compacted subbase course shall be used beneath the new sidewalk
  - o Compaction of the subbase layer and existing subgrade shall be to a minimum of 95%
  - o Open Graded, Granular Subbase consisting of NYSDOT/ ASTM C33 approved aggregate w/ the following gradation. The aggregate gradation is equivalent to the AASHTO #57/ NYDOT #1/#2 stone blend:

<b>Sieve Size Designation</b>	<b>Percent Passing By Weight</b>
1 ½”	100
½”	25-60
¼”	10-35
No. 200	2-7

#### CONCRETE SIDEWALK – *Estimated square footage – 1400 SF*

- A new, 4"-6" thick, 7' wide concrete sidewalk shall be constructed with the following specifications. The sidewalk shall extend out from the existing buildings towards the street:
  - o ASTM size #57 Aggregate Gradation
  - o ASTM C150 type I/II Portland Cement
  - o ASTM A185 W1.4xW1.4 6x6 WWF reinforcement @ 2" depth/cover
  - o Admixtures shall conform to ASTM Standards and be pre-approved by the Town and Village Engineer
  - o Minimum compressive strength of 4,000 psi
  - o Water/Cement Ratio of 0.45
  - o Air Content of 5% +/- 1%
  - o Cross Slope of 1/4" per foot
  - o Maximum running slope of 5%
  - o Tooled Edges – Broom Finish
  - o Control Joints cut to 1/4" depth, spaced at 5' increments
    - Two Component, self-leveling, polyurethane elastomeric
    - Allowing for cold weather movement
    - Control joints shall be placed/cut at locations specified by the Town Engineer or Building Inspector and shall be representative of the sample rendering shown in Enclosure (1).
  - o Expansion Joints between new and existing surfaces
    - Fiber based w/ sealant typ. of control joint sealant
- The new sidewalk shall be 4" thick throughout the main runs and 6" thick where it crosses an area subject to vehicular traffic. The sidewalk shall be sealed with a water based, industrial grade moisture/salt protectant following construction. The primary sidewalk detail is shown in Enclosure (2).

#### EXPOSED AGGREGATE BUILDING ENTRANCE APRONS – *Estimated square footage – 100 SF*

- (3) new, 4" thick, exposed aggregate concrete building entrance aprons shall be constructed in front of the businesses noted in Enclosure (3) that span the width of the building entrance opening and match the grade between the newly constructed sidewalk and the existing curb structure.
- The new, concrete, exposed aggregate apron shall conform to the following specifications and application procedures:
  - o Same concrete mix design, reinforcement, and joint details as specified above
  - o ASTM specified retarding agent and sealer – retarding agent applied IAW the

manufacturer's recommendations.

- Course aggregate shall conform to NY standard specifications for crushed stone necessary to achieve the following look:



- The exposed aggregate shall be constructed by a method employing a retarding agent and the finished surface shall be completely seeded with aggregate so that the aggregate has a 3/16" depth of exposure. One sample segment of exposed aggregate measuring 5'x5' shall be constructed in a portion of the flatwork area to determine the suitability of appearance prior to full construction.

The (2) existing concrete bench platform slabs shall be re-constructed in-kind and placed at a location IAW the rendering enclosure, and their final construction location shall be verified and confirmed in the field.

#### **GEOBLOCK POROUS PAVEMENT SYSTEM - *Estimated square footage - 825 SF***

- The area specified in Enclosure (3) shall be constructed with a porous pavement system that meets or exceeds the specifications of the GEOBLOCK 5150 system. The area shall be excavated to allow for a 4" engineered aggregate base, the Geoblock cell units, topsoil infill and grass seed IAW the manufacturer's recommendations.

**-The completion date for this project is 27JULY2018**

**-Failure to complete the specified work within the performance period without a pre-approved exemption shall result in a penalty of 1% of the contract bid on a per day basis from the agreed-upon date of completion**

### **Contract Sequence**

1. Bids Due NLT 4:00PM on Friday, June 29<sup>th</sup>, 2018 – Emailed to the EVL ENG POC
2. Notice of Award Letter Issued
3. Submittals Reviewed
4. Notice to Proceed Letter Issued
5. Construction Period Begins

### **Enclosures**

1. Sample Drawing / Rendering of final design
2. EVL ENG Dept. Standard Sidewalk Detail
3. Pictures w/ Details showing the proposed scope of work

## **Bid Summary**

**A FULL, ITEMIZED COST BREAKDOWN IS REQUIRED TO BE SUBMITTED WITH THIS BID FORM. THE BREAKDOWN SHALL INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT COSTS BROKEN DOWN BY WORK ITEM.**

Respectfully submitted:

_____ Name of the Contractor	_____ Street Address
_____ Signature	_____ City, State, and Zip
_____ Title	_____ Date
_____ License number (if applicable)	

SEAL - (if BID is by a Corporation)

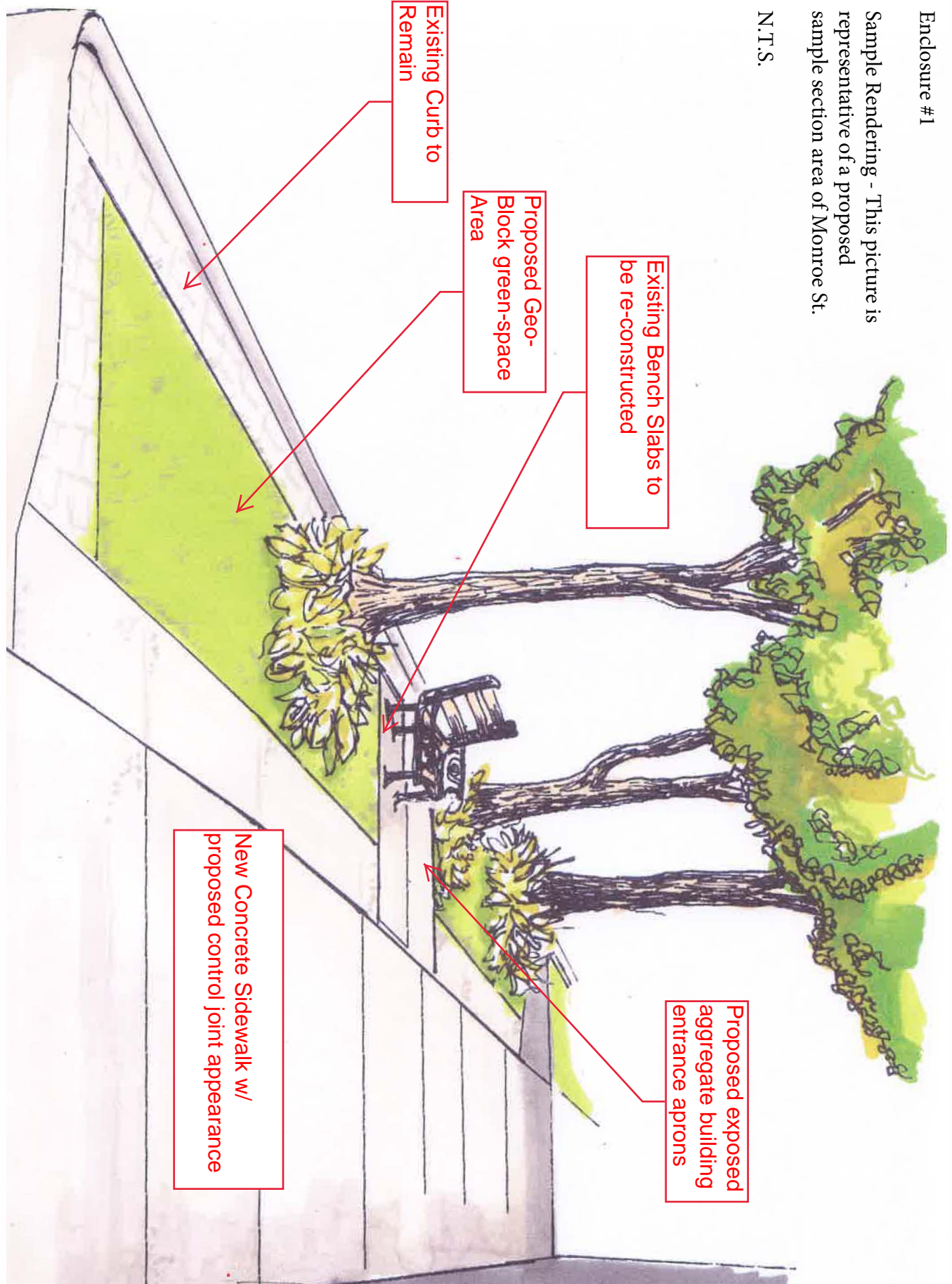
Total Bid Cost: \_\_\_\_\_  
(Written)

Total Bid Cost: \$ \_\_\_\_\_  
(Numbers)

Enclosure #1

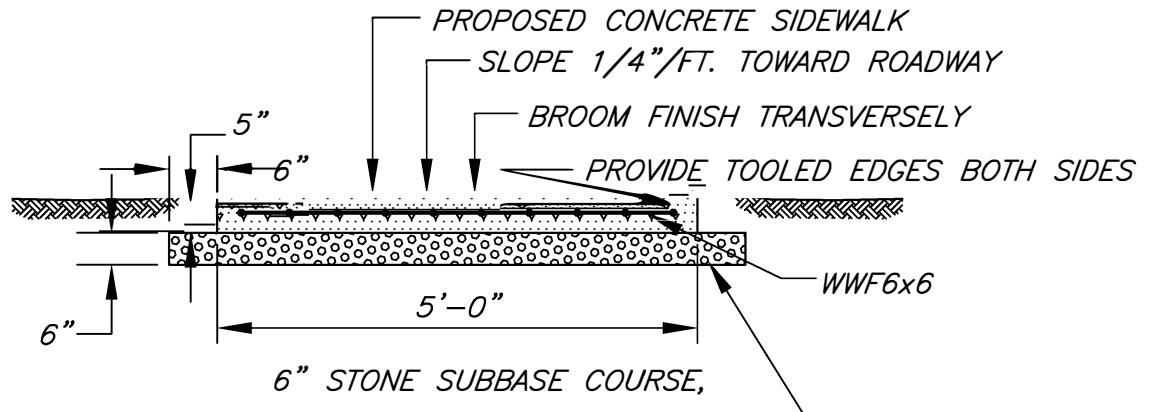
Sample Rendering - This picture is representative of a proposed sample section area of Monroe St.

N.T.S.



HOCHER Alley to Washington





NOTES:

1. CONVENTIONALLY FORMED CONCRETE SIDEWALK SHALL BE 3500 PSI, NYSDOT CLASS A, AIR ENTRAINED CONCRETE. MACHINE FORMED CONCRETE SIDEWALK SHALL BE 3500 PSI, NYSDOT CLASS C, AIR ENTRAINED CONCRETE (NYSDOT ITEM 608.0101).
2. FULL DEPTH EXPANSION JOINTS SHALL BE PROVIDED EVERY 25 FEET. CONTROL OR MARKED JOINTS SHALL BE 5' SPACING.
3. USE WWF1.4X1.4 — 6X6 WIRE MESH THROUGHOUT.
4. TO FACILITATE THE MOVEMENT OF HANDICAPPED PERSONS, NEW SIDEWALK CONSTRUCTION SHALL INCLUDE PROVISIONS FOR RAMPS AT STREET INTERSECTIONS.
5. USE "ACCUSEAL" AS MANUFACTURED BY ALLERTON CHEMICAL COMPANY, "POLYCLEAR" AS MANUFACTURED BY THE UPCO COMPANY, OR APPROVED EQUAL.

## SIDEWALK SECTION

N.T.S.

REVISIONS		ELLCOTTVILLE ENGINEERING DEPT.
DATE	COMMENTS	HIGHWAY & STORM SEWER DETAILS
		SIDEWALK SECTION



Ellicottville Engineering Department  
VPW1801 – Monroe St. Streetscape Project

Pictures Depicting Proposed Scope of Work

*Pictures follow a sequential movement from the north end to south end of the Monroe St. project area*



Start of  
Construction Area



Bench slab to be re-constructed  
and moved so that it's adjacent to  
the new exposed aggregate apron  
(typical of 2 bench slabs).

New, exposed aggregate building entrance apron to be  
constructed. The apron shall span the width of the  
building doorway and extend from the new sidewalk to  
the existing curb structure (typical of 3 sections).



Concrete entrance  
ramp to remain.

Sidewalk to be 6" thick and  
maintain new 7' width. The  
asphalt shall be saw cut and  
patched following construction.



Green space to receive new Geoblock  
porous pavement structure, topsoil  
infill, fertilizer, and grass seed (typical  
of green space area).



Proposed work to end at the Rt  
219/242 intersection apron.