ADDENDUM No. 1
RFP No. 22-49
Ellsworth Road Sidewalk Gap Elimination

Due: July 19, 2022 at 10 A.M. (local time)

The information contained herein shall take precedence over the original documents and is appended thereto. This Addendum includes forty (40) pages.

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment D - Prevailing Wage Declaration of Compliance
- Attachment E - Living Wage Declaration of Compliance
- Attachment G - Vendor Conflict of Interest Disclosure Form
- Attachment H - Non-Discrimination Declaration of Compliance

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

<table>
<thead>
<tr>
<th>Section/Page(s)</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>III.E. Schedule of Pricing / Pages 13-14</td>
<td>Revised quantities for Pay Items 170, 171, 322, 530, 540, 541, 544, 560, 701, 705, 800; Revised Pay Item names 310, 320, 800; Added Pay Items 703, 704, 805, 806</td>
</tr>
<tr>
<td>Comment: The intent with this change is to simply replace the outdated Pages 13 and 14 provided in the RFP Document with the updated Pages 13-Addendum1 and 14-Addendum1 provided herein.</td>
<td></td>
</tr>
<tr>
<td>Detailed Specifications / DS-82</td>
<td>Added Detailed Specifications for Pay Item 703, 704</td>
</tr>
<tr>
<td>Comment: The intent with this change is to simply replace the outdated Detailed Specification page DS-82 provided in the RFP Document with the updated Pages DS82-Addendum1 provided herein. Also, add Detailed Specification For Item #704, pages DS704-Addendum1-1 to DS704-Addendum1-5.</td>
<td></td>
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<tr>
<td>Section/Page(s)</td>
<td>Change</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Detailed Specifications</td>
<td>Added Detailed Specifications for Pay Items 805, 806</td>
</tr>
<tr>
<td><strong>Comment:</strong> The intent with this change is to simply add Detailed Specifications For Items #805 and #806, pages DS805-Addendum1-1 to DS805-Addendum1-4 provided herein.</td>
<td></td>
</tr>
<tr>
<td>Appendix / FEMA Flood Insurance Rate Map</td>
<td>Added Overall Floodplain and Floodway Mapping</td>
</tr>
<tr>
<td><strong>Comment:</strong> The intent with this change is to simply add the Map provided herein.</td>
<td></td>
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<tr>
<td>Drawing Plan / 3 of 24</td>
<td>Added Details.</td>
</tr>
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</table>
| Drawing Plan / 4 and 5 of 24     | Removal Key Clarification to Remove HMA and Concrete (*Sawcut Full Depth at Removal Limits)  
Wetland Impact Quantities Separated on Sheets 4 and 5 |
| Drawing Plan / 13 of 24          | Corrected Pay Item in Note Regarding Coordination with Ann Arbor Railroad |
| Drawing Plan / 21 of 24          | 15" Storm Sewer and End Section specified as Concrete                |
| Drawing Plan / 22 and 23 of 24   | Added Turbidity Curtain                                               |
| Drawing Plan / 23 of 24          | Added Sheet 23 to Plan Set (Previously provided in Appendix)           |
| Drawing Plans / Multiple         | Added Additional Easement Information  
Added Floodplain/Floodway Information  
Added Restoration Quantities and Native Seed Quantities  
Updated Sidewalk Type Quantities |
| **Comment:** The intent with this change is to simply replace the plan set with Drawing Plans provided herein. |

### II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

**Question 1:** Will there be a traffic control plan issued?  
**Answer 1:** No. The traffic controls will be required as indicated in the typical MDOT details that have been included in the specifications.

**Question 2:** Will there be traffic control pay items added?  
**Answer 2:** No. Payment for traffic control items is included in the lump sum payment for Minor Traffic Devices, Maximum $50,000.
Question 3: Who is responsible for survey and staking?
Answer 3: The City will provide survey and staking. The contractor is responsible for requesting staking three business days in advance.

Question 4: Who is responsible for testing?
Answer 4: The City will provide construction materials and compaction testing. The contractor is responsible for requesting testing personnel 1 business day in advance.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.
E. Schedule of Pricing/Cost - 20 Points

Company ________________________________________________________

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<tr>
<th>Pay Item Code</th>
<th>Pay Item Description</th>
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<td>171</td>
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<td>521</td>
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TOTAL THIS PAGE (Page 13-Addendum1)$

(Also must be entered on Page 14-Addendum1)

13-Addendum1
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<th>Pay Item Code</th>
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<th>Unit Price</th>
<th>Total Price</th>
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<td>530</td>
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<td>540</td>
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<td>541</td>
<td>6 inch Drive Approach, Ramp, or Sidewalk</td>
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<td>702</td>
<td>Erosion Control, Inlet Protection</td>
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<tr>
<td>703</td>
<td>Floating Turbidity Curtain</td>
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<td>$</td>
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<td>704</td>
<td>Riprap, Plain</td>
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<tr>
<td>705</td>
<td>Mallet's Creek Airport Branch Construction - Water Diversion and SESC</td>
<td>LS</td>
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<td>800</td>
<td>Turf Restoration</td>
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</tbody>
</table>

**TOTAL THIS PAGE (Page 14-Addendum1)**

**TOTAL FROM PAGE 13-Addendum1**

**TOTAL BID**
DETAILED SPECIFICATION
FOR
ITEM #701 - EROSION CONTROL, SILT FENCE
ITEM #702 – EROSION CONTROL, INLET PROTECTION
ITEM #703 – EROSION CONTROL, FLOATING TURBIDITY CURTAIN

DESCRIPTION
The Contractor shall furnish, place, maintain, and remove soil erosion and sedimentation control measures, including but not limited to, silt fence and fabric filter protection at all drainage structures, all in accordance with all applicable City (and other governmental agencies) codes and standards, as directed by the Engineer, as detailed in the Standard Specifications, and as shown on the Plans.

This work consists of installing and maintaining inlet filters and silt fence in accordance with Section 208 of the 2020 Michigan Department of Transportation Standard Specifications for Construction and as shown on the plans. Filters in existing and proposed inlets, as well as silt fence downstream of construction area, shall be installed in order to minimize the erosion of soil and the sedimentation of water courses. The related work includes the installation, maintenance, and removal of the filters and fence, cleaning as required during the performance of the project work, removing and disposing of accumulated sediment, and replacement of filters if required by the Engineer so as to provide a properly working inlet filter and a well-drained site.

MATERIALS
The inlet protection filters shall be in accordance with the REGULAR FLOW SILTSACK® manufactured by ACF Environmental (800) 448-3636; FLEXSTORM® Style FX manufactured by Advanced Drainage Systems, Inc. (800) 821-6710; CATCH-ALL® manufactured by Price & Company (866) 960-4300, SLOT GUARD® manufactured by Ertec Environmental Systems (866) 521-0724, or Engineer approved equal.

The Contractor shall submit product data sheets and a sample of the filter material for inlet filters and silt fence for Engineer approval prior to ordering materials.

METHODS OF CONSTRUCTION
The Contractor shall install, maintain, clean, and re-install and/or replace inlet filters and silt fence in accordance with the manufacturer’s specifications and as directed by the Engineer. The Contractor shall dispose of debris off-site.

MEASUREMENT AND PAYMENT
Soil erosion and sedimentation control items shall be field measured and paid for at the Contract Unit Prices for their respective Contract (Pay) Items as follows:

<table>
<thead>
<tr>
<th>PAY ITEM</th>
<th>PAY UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erosion Control, Silt Fence</td>
<td>Foot</td>
</tr>
<tr>
<td>Erosion Control, Inlet Protection</td>
<td>Each</td>
</tr>
<tr>
<td>Erosion Control, Floating Turbidity Curtain</td>
<td>Foot</td>
</tr>
</tbody>
</table>

The unit prices for these items of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specification.
DESCRIPTION
This Detailed Specification covers the requirements for working within and near Mallett’s Creek Airport Branch for the purposes of constructing the proposed improvements detailed in the plans. These requirements consist of performing water diversion and installing temporary soil erosion and sedimentation control (SESC) measures related to the water diversion in accordance with all local, state, and federal requirements; in accordance with all project permits; and as approved by the Engineer.

Also included is the complete design of the Mallett’s Creek Airport Branch water diversion and SESC systems; construction, operation, and maintenance of these water diversion and SESC systems; abandonment or removal of water diversion and SESC systems when no longer needed, protection of personnel, structures, and existing site features to be preserved or protected; environmental protection, and restoration. The Contractor shall be responsible for the complete design of all structures and methods proposed for water diversion and SESC of Mallett’s Creek Airport Branch and the surrounding area as needed for the work as detailed on the plan sheets, including the furnishing, installation, and operation of all materials, tools, and equipment proposed for use in the work. Temporary wiring associated with this work shall comply with the applicable portions of the National Electric Code.

Water diversion and SESC systems shall be designed by a Professional Engineer registered in the State of Michigan with a minimum of seven years of documented experience in the design, installation, and operation of water diversion and SESC systems and as specified elsewhere herein.

The requirements of this Detailed Specification shall supersede all other requirements of the 2012 Michigan Department of Transportation Standard Specifications for Construction with regard to water diversion and SESC for Mallett’s Creek Airport Branch and payment thereof.

METHODS OF CONSTRUCTION
All work within Mallett’s Creek Airport Branch must comply with the Michigan Department of Environment, Great Lakes, and Energy Permit. In addition to all of the approved permit conditions, the Contractor shall also adhere to the following additional project requirements:

- Temporary soil erosion and sedimentation control measures shall be installed before or upon commencement of the earth change and shall be maintained daily. Temporary soil erosion and sedimentation control measures shall be maintained until permanent soil erosion and sedimentation control measures are in place and the area is stabilized. Permanent soil erosion and sedimentation control measures for all slopes, channels, ditches, or any disturbed area shall be installed within five (5) calendar days after final grading or the final earth change has been
completed. The Contractor shall not delay the performance of final grading and restoration for the purposes of “efficiency” in grouping together or performing the final restoration activities of other work simultaneously.

- All raw areas in uplands resulting from the permitted construction activity shall be effectively stabilized with sod and/or seed and mulch (or other technology specified by project plans and special provisions) in a sufficient quantity and manner to prevent erosion and any potential siltation to surface waters or wetlands. Temporary stabilization measures shall be installed before or upon commencement of the permitted activity, and shall be maintained until permanent measures are in place. Permanent measures shall be in place within five (5) days of achieving final grade.
- All raw earth within 100 feet of a lake, stream, or wetland that is not brought to final stabilization by the end of the active growing season shall be temporarily stabilized with mulch blankets by October 10th.
- Prior to the initiation of any permitted construction activities, a sedimentation barrier shall be constructed immediately down gradient of the construction site. Sedimentation barriers shall be specifically designed to handle the sediment type, load, water depth, and flow conditions of each construction site throughout the anticipated time of construction and unstable site conditions. The sedimentation barrier shall be maintained in good working order throughout the duration of the project. Upon project completion, the accumulated materials shall be removed and disposed of at an upland (non-wetland, non-floodplain) site and stabilized with seed and mulch. The sedimentation barrier shall then be removed in its entirety and the area restored to its original configuration and cover.
- Any cofferdams of steel sheet piling, gravel bags, clean stone, coarse aggregate, concrete, or other acceptable barriers shall be installed to isolate all construction activity from the water. The barriers shall be maintained in good working order throughout the duration of the project. Upon project completion, the accumulated materials shall be removed and disposed of at an upland site.
- All cofferdam and temporary steel sheet pile shall then be removed in its entirety.
- All riprap, including gabion baskets, shall be properly sized and graded based on wave action and velocity, and shall meet the contract requirements contained elsewhere in the contract documents. The use of broken concrete is not allowed.
- All other road fill slopes, ditches, and other raw areas draining directly to the stream may be protected with riprap placed on top of geotextile fabric, sod and/or seed and mulch as may be necessary to provide effective erosion protection.
- All slurry resulting from any dewatering operation shall be discharged through a filter bag or pumped to a sump located away from wetlands and surface waters and allowed to filter through natural upland vegetation, gravel filters, or other engineered devices for a sufficient distance and/or period of time necessary to remove sediment or suspended particles. The discharge of slurry water resulting
from any hydrodemolition of concrete is not allowed to enter a lake, stream, or wetland.

- All fill material and/or backfill shall consist of clean inert material that will not cause siltation nor contain soluble chemicals, organic matter, pollutants, or contaminants. All fill material shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland. All raw areas associated with the permitted activity shall be stabilized with sod and/or seed and mulch, riprap, or other technically effective methods as necessary to prevent erosion.
- All dredge/excavated spoils including organic and inorganic soils, vegetation, and other material removed shall be placed on upland (non-wetland, non-floodplain or non-bottomland), prepared for stabilization, and stabilized with sod and/or seed and mulch in such a manner to prevent and ensure against erosion of any material into any waterbody, wetland, or floodplain.
- If the project, or any portion of the project, is stopped and lies incomplete for any length of time other than that encountered in a normal work week, every precaution shall be taken to protect the incomplete work from erosion, including the placement of temporary gravel bag riprap, temporary seed and mulch, or other acceptable temporary protection as allowed by the Engineer. The Engineer’s acceptance of any temporary measure shall not be construed as an approval of the work or its effectiveness. All temporary measures shall be effective.
- No work shall be performed in the stream during periods of above-normal flows except as necessary to prevent erosion.
- All contaminated spoils excavated from the uplands or dredged from lakes or streams, including organic and inorganic soils, vegetation, and debris shall be properly disposed as detailed in the permit or as determined acceptable by the Engineer.
- No work or dredging in the water is allowed from April 1 to June 30, due to critical spawning, migration, and/or recreational use periods.

Methods used in diverting Mallett’s Creek Airport Branch flow around the construction area shall be the responsibility of the Contractor and shall be approved by the Engineer. Damming and bypass pumping of Mallett’s Creek Airport Branch will not be accepted as a method for water diversion. When flow is shallow (less than two feet), temporary concrete barriers or sandbags may be used to divert flow.

Equipment for water diversion shall be the responsibility of the Contractor and shall be acceptable to the Engineer. The Contractor shall furnish and construct adequate diversion systems to maintain Mallett’s Creek Airport Branch flow so as to prevent damage to existing structures, proposed work, or property. Diversion equipment shall be of proper type and size for the work, be in good working condition, and be properly maintained throughout the life of the project until it is no longer needed. The Contractor shall provide all anchors and supports for diversion equipment.
DETAILED SPECIFICATION
FOR
ITEM #704 MALLETT’S CREEK AIRPORT BRANCH CONSTRUCTION –
WATER DIVERSION AND SESC MEASURES

Any and all method(s) of water diversion and SESC proposed by the Contractor shall be effective. The Contractor is responsible for diverting flow and protecting the site in an effective, timely-manner, that will not unduly delay the work of the project. Delays due to these efforts will not be a basis of payment for additional compensation, extra work, or an extension of contract time. The Engineer’s acceptance of a particular method of diversion or SESC shall not relieve the Contractor of their responsibility of performing the work in a manner that meets the requirements of this Special Provision, the Contract Documents, and all other local, state, and federal requirements.

All water that is removed from excavations, or directed away from work areas, shall be directed to existing storm sewers or other water courses as approved by the Engineer. In handling and directing this water, the Contractor is required to comply with all applicable local, state, and federal requirements regarding soil erosion and sedimentation control and shall provide filters, filter bags, check dams, or any other measure that is necessary in order to comply with the applicable laws and ordinances.

Shop Plans and Working Drawings
The Contractor shall submit to the Engineer a detailed plan, calculations and description of the proposed method of water diversion and soil erosion and sedimentation control. The work of preparing the detailed plans, calculations, and descriptions of the proposed work shall be in accordance with Section 104.02 of the Michigan Department of Transportation 2012 Standard Specifications for Construction. Plans, calculations and descriptions shall be sealed by a Professional Engineer registered in the State of Michigan.

For each submittal or resubmittal, the Contractor shall allow at least 14 calendar days from the date of the submittal to receive the Engineer’s acceptance or request for revisions. The Engineer’s comments shall be incorporated into the submitted plans, calculations and descriptions. The Engineer’s acceptance of the proposed plans are required before beginning the work. Resubmittals may take less than 14 calendar days depending upon the magnitude of revisions requested. Required revisions will not be a basis of payment for additional compensation, extra work, or an extension of contract time. The Contractor shall include time for this entire review process in his/her CPM network schedule.
**DETAILED SPECIFICATION**  
**FOR**  
**ITEM #704 MALLETT’S CREEK AIRPORT BRANCH CONSTRUCTION – WATER DIVERSION AND SESC MEASURES**

**Measurement and Payment**  
The completed work shall be paid for at the contract unit price for the following contract item (pay item):

<table>
<thead>
<tr>
<th>Contract Item (Pay Item)</th>
<th>Pay Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mallett’s Creek Airport Branch Construction</td>
<td>Lump Sum</td>
</tr>
<tr>
<td>– Water Diversion and SESC Measures</td>
<td></td>
</tr>
</tbody>
</table>

Mallett’s Creek Airport Branch Construction shall include all labor, material, and equipment required for designing, furnishing, installing, maintaining, and operating, complete water diversion and soil erosion and sedimentation control systems as necessary to complete the work, and shall include, but not be limited to; the preparation of shop plans, design drawings, and calculations; placement and removal of diversion equipment needed; protection of existing or proposed improvements; miscellaneous restoration needed to resume construction when the creek construction operations are completed; furnishing, maintaining, and removing when no longer needed, all soil erosion and sedimentation control devices associated with the work in Mallett’s Creek Airport Branch; complying with all applicable local, state, and federal environmental and soil erosion and sedimentation control measures; and, all other items necessary to complete the work, whether specifically mentioned or implied.

Payment for permanent soil erosion and sedimentation controls along Mallett’s Creek Airport Branch are not included in this item and shall be paid for as detailed elsewhere in the project plans and detailed specifications.
DESCRIPTION
This work shall consist of furnishing and applying Engineer-approved weed control and herbicide materials; fine grading, grooming, and preparing areas for temporary and permanent seeding; furnishing and placing seed where Temporary Erosion Control and Native Seed is called for on the plans or required to be placed to stabilize prepared areas; and, furnishing and placing mulch or mulch blankets. All work shall be performed in accordance with Sections 205 and 816 of the 2012 Michigan Department of Transportation Standard Specifications for Construction except as provided herein.

MATERIALS
Native seed shall be fresh, clean, new seed of native plant material of genotypes from the north central states only (IL, IN, MI, OH) and from a recognized nursery of this region. Seed mix shall be composed of seed with the purity, germination, and proportions by acre, as indicated on the drawings.

Seed weights listed for native seed mixes are shown as pure live seed (PLS) and indicate the total amount of fresh, new crop seed per acre for all species listed.

The native seed mixture shall be by weight and proportions as shown on the plans.

Seed sources for all the native seed are available through The Michigan Wildflower Farm, Portland, Michigan, (517) 647-6010; JFNew, Walkerton, IN (574) 586-2412; or LaFayette Home Nursery, LaFayette IL, (309) 995-3311, or approved substitution.

Mulch for native seed shall be clean chopped straw from oats to protect seeded areas from invasive species frequently found in common straw. No other type of mulch is acceptable. It shall be natural and suited for horticultural use and not contain lumps, roots or other foreign matter over one inch in diameter. It shall be free of seeds and noxious weeds. Mulch shall not contain more than 35% moisture by weight. Mulch is not necessary under straw mulch blanket.

Seed for Temporary Erosion Control shall be Annual Rye, Lolium multiflorum.

Mulch for Temporary Erosion Control Seed shall be Straw Mulch Blanket.

Topsoil shall be 4 inches furnished as specified in MDOT section 917.

SUBMITTALS
The Contractor shall notify the Engineer of the native seed source no later than thirty days after the contract award. The Contractor shall review native seed sources with Engineer prior to ordering and shall submit an invoice following purchase and delivery of the seed. The Contractor shall submit to the Engineer a plan and schedule for seeding at least four weeks prior to the scheduled commencement of work.
METHODS OF CONSTRUCTION
Seeding shall be performed in accordance with the requirements of Section 816 of the 2012 MDOT Standard Specifications for Construction except as modified herein.

1. Delivery, Storage and Handling

Seed shall be delivered in original sealed containers, labeled in accordance with State Regulations and the US Department of Agriculture Rules and Regulations under the Federal Seed Act. Seed shall be stored in such a manner that it will be protected from damage by heat, moisture, rodents, or other causes.

2. Seeding Time

Native Seed areas shall be seeded after October 1st, but before November 30th, or prior to the ground freezing (as determined by the Engineer) “Fall Seeding Time”; or, after frost has left the ground in the spring until June 1 “Spring Seeding Time.”

If final grading and seed bed preparation is completed between Spring and Fall Seeding Time, Temporary Erosion Control Seeding shall be placed immediately following completion of final grades.

Temporary Erosion Control Seed shall be placed immediately after final grading and seed bed preparation is completed in areas shown on the plans.

3. Sowing Temporary Erosion Control Seed

Temporary Erosion Control Seed shall be placed immediately after final grading at a rate of 200 pounds per acre in areas shown on the plans, even in areas with a slope of 1:3 or greater.

Place Straw Mulch Blanket on top of Temporary Erosion Control Seed immediately after sowing.

4. Preparation of Earth Bed and Sowing Native Seed

Prepare Native Areas for seeding in accordance with Section 816.03.A.1 of the MDOT 2012 Standard Specifications for Construction.

Place topsoil in accordance with Section 816.03.A.2 except that the seed bed shall be graded and groomed to the contours as shown on the plans and all rocks and stones of 1” diameter or greater, roots, brush, litter, and any other deleterious matter shall be removed and properly disposed of off-site.
DETAILED SPECIFICATION
FOR
ITEM #805 – RESTORATION OF NATIVE SEEDING
ITEM #806 – TEMPORARY EROSION CONTROL SEED

All slopes and graded areas shall be considered to be Class A Slopes and shall be prepared in accordance with the requirements of Section 205.03.N.

The Contractor shall not fertilize any native seed bed or planting area.

Do not sow seed in planting areas where standing water is present. Remove excess water.

Sow native seed at the rate in pounds per acre indicated on the drawings. Sow seed into soil in several directions to avoid uniform rows. Seed shall be sown with mason sand as a carrier. The mixture of seed to carrier shall consist of equal parts seed to sand. Lightly rake seeded areas to incorporate seed into soil and to cover the seed within twelve hours, if conditions permit, or as soon thereafter as practicable.

a. Methods of seeding

For small areas and on slopes 1:3 or steeper seeding shall be by hand or broadcast seeder on a calm day (winds between 0 and 5 mph). Sow seed evenly. Firm soil with a roller or other methods as approved by the Engineer in order to provide consistent soil and seed contact. For large areas, and on slopes flatter than 1:3, seed shall be drilled into the soil with a native seed drill moving in several directions, perpendicular and parallel to the contours, making two or three passes over each area to avoid uniform rows of grass and forbs. Rolling of the seedbed shall not be required with if a native seed drill is used.

The Engineer may approve the use of hydroseeding equipment on large areas. Should the Contractor elect to propose hydroseeding as an alternative method of seeding, they shall submit their request and description of all equipment and materials to be used to the Engineer for evaluation a minimum of 30 days prior to the scheduled start date.

If the use of hydroseeding equipment is approved by the Engineer, the equipment shall meet the following requirements:

1. The hydraulic seeding equipment shall include a pump rated and operated at no less than 100 gallons per minute and no less than 100 pounds per square inch pressure.
2. A minimum of 1,000 gallons of seed-mulch slurry mixture shall be used. The tank shall have a mechanical agitator powerful enough to keep all material in a uniform suspension in the water.
3. Calibration of the hydraulic seeding equipment shall be accurate and to the satisfaction of the Engineer. When hydroseeding, the nozzle must be
DETAILED SPECIFICATION
FOR
ITEM #805 – RESTORATION OF NATIVE SEEDING
ITEM #806 – TEMPORARY EROSION CONTROL SEED

no closer than 15 ft. but no further than 30 ft. from the soil surface and shall be maintained at a 45-degree angle to the ground during seeding.
4. Paper as a mulch shall not be used.
5. Mulch made from clean chopped straw from oats shall be placed over all native seeded areas at a rate of 2 tons per acre. Straw Mulch blankets shall be placed over all temporary erosion control seeded areas.

If final grading was completed prior to Native Seed Seeding Time and erosion control seed has germinated and is growing, mow erosion control grasses to a height of 3 inches, remove mulch blanket, and prepare seed bed in accordance with Section 816.03.A.1 and the requirements of this Detailed Specification, and furnish and sow native seed as specified herein. The Contractor shall then re-mulch the areas in accordance with the requirements of this specification.

MEASUREMENT AND PAYMENT
The completed work as described will be measured and paid for at the contract unit prices using the following contract items (pay items).

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<thead>
<tr>
<th>Contract Item (Pay Item)</th>
<th>Pay Unit</th>
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<tr>
<td>Native Seeding Mixture, Complete</td>
<td>Square Yard</td>
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<tr>
<td>Temporary Erosion Control Seeding Mixture, AR, Complete</td>
<td>Square Yard</td>
</tr>
</tbody>
</table>

Native Seeding Mixture, Complete will be measured at the contract unit price per square yard, which price shall be payment in full for all labor, materials, seed, mulch, and equipment needed to complete the work as detailed herein.

Temporary Erosion Control Seeding Mixture, AR, Complete will be measured at the contract unit price per square yard, which price shall be payment in full for all labor, materials, seed, mulch blankets, and equipment needed to complete the work as detailed herein.
**PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.**

**CONSTRUCTION NOTES:**

- All work to be done in accordance with applicable codes and specifications.
- All equipment and materials to be used shall be of the latest and best grade, and shall conform to all applicable codes and specifications.
- All work performed shall be done in a workmanlike manner and in accordance with applicable codes and specifications.
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Know what's below. Call before you dig.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
ELLSWORTH RD SIDEWALK GAP ELIMINATION

PROPOSED SIDEWALK - WEST OF RESEARCH PARK DR.

CONSTRUCTION KEY

<table>
<thead>
<tr>
<th>KEY</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>SW-4</td>
<td>ABO</td>
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<td>SW-6</td>
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Know what's below. Call before you dig.
ELLSWORTH RD SIDEWALK GAP ELIMINATION

PROPOSED SIDEWALK - WEST OF RESEARCH PARK DR.

STA. 4+50 - STA. 8+50

CONSTRUCTION KEY

KEY

1. SW-4

2. SW-6

3. SW-8

4. SW-8 HE

5. CG

6. HP

7. DWS

8. ADJ

9. ABO

10. TURF

11. NAT

CAUTION

HAZARDOUS OR FLAMMABLE MATERIAL

TURF

NAT
Elsworth Rd Sidewalk Gap Elimination

Proposed Sidewalk - West of Research Park Dr.

STA. 8+50 - P.O.E. STA. 12+80

Construction Key

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CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL
Know what's below.
Call before you dig.
ELLSWORTH RD

PLAN: 1" = 20'

PROFILE: 1" = 2'

Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

ELLSWORTH RD SIDEWALK GAP ELIMINATION
PROPOSED SIDEWALK - EAST OF RAILROAD
STA. 23+00 - STA. 27+00

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CAUTION CRITICAL UTILITY
TURF

[Diagram of E Ellsworth Rd with construction details]
Know what's below.
Call before you dig.

CAUTION CRITICAL UTILITY
Know what's below. Call before you dig.