



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 22, 2016

SUBJECT: FAU 6595 (Sheridan Road)
Section 11-00358-00-BR (City of Peoria)
Peoria County
Contract No. 89658
Item 137
March 4, 2016 Letting
Addendum (A)

NOTICE TO PROSPECTIVE BIDDERS:

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

- 1. Revised the Table of Contents and pages 8, 9, 14 & 18 to the Special Provisions.**
- 2. Revised sheets 35 & 36 of the Plans.**

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

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Maureen M. Addis, P.E.
Acting Bureau Chief of Design and Environment

A handwritten signature in cursive script, reading "Ted B. Walschleger, P.E.", with the initials "P.E." written in a smaller font to the right of the signature.

By: Ted B. Walschleger, P.E.
Engineer of Project Management

TABLE OF CONTENTS

<u>ITEM</u>	<u>PAGE NO.</u>
DESCRIPTION OF WORK.....	2
EXISTING UNDERGROUND FACILITIES	2
NOTIFICATION OF UTILITIES PRIOR TO CONSTRUCTION	2
COOPERATION WITH UTILITY COMPANIES.....	2
J.U.L.I.E. SYSTEM.....	3
STATUS OF UTILITIES TO BE ADJUSTED	3
CONSTRUCTION SEQUENCE AND SCHEDULE	4
CONSTRUCTION ACCESS.....	4
CONTRACTOR ACCESS.....	4
TRAFFIC CONTROL PLAN	5
PAVEMENT REMOVAL.....	6
REMOVAL OF EXISTING STRUCTURE.....	6
TOPSOIL.....	7
CONCRETE EDGING 12” WIDE.....	7
BRICK PAVERS.....	7
AGGREGATE BASE COURSE, TYPE A.....	12
FENCE REMOVAL	15
SLOPE WALL, 4 INCH.....	15
RETAINING WALL REMOVAL	15
THREE SIDED PRECAST CONCRETE STRUCTURE 30x10.....	15
FILTER FABRIC.....	18
IDOT DISTRICT 4 SPECIAL PROVISIONS	19
CONSTRUCTION LAYOUT UTILIZING GPS EQUIPMENT	19
UTILITIES – LOCATIONS/INFORMATION ON PLANS.....	19
BORROW AND FURNISHED EXCAVATION	19
EMBANKMENT	20
EMBANKMENT (RESTRICTIONS).....	20
PROOF ROLLING.....	21
SUBGRADE TREATMENT.....	21
SUBBASE GRANULAR MATERIAL	22
PCC QC/QA ELECTRONIC REPORTS SUBMITTAL	22
PCC AUTOMATIC BATCHING EQUIPMENT.....	22
ENVIRONMENTAL PERMITTING	23
NATIONWIDE 404 PERMIT REQUIREMENTS.....	23
NPDES PERMIT.....	23
404 PERMIT.....	32-34
FACT SHEET NO. 7(IL)	35-72
OWR PERMIT	73-75



4. Maintenance Manual: At completion of paving installation, provide the City public works staff with the maintenance and reinstatement manuals for permeable paver units from the manufacturer.

Installer Qualifications. Utilize a paver installer that has successfully completed at least three concrete permeable paver installations similar in design, materials, and extent as this project in the last five years. Provide written qualifications prior to award of contract. Paver installer shall conform to all local and state licensing and bonding requirements.

Contractor shall arrange for a representative from the paver manufacturer be present during initial installation to ensure proper installation procedures are followed and be available for questions.

Materials. Materials shall be according to the following.



- Pavers:** Solid concrete interlocking permeable paver units designed for commercial/ industrial use (3" minimum thickness), with open joints (1/4" maximum joint width), meeting the requirements of ASTM C 936. Efflorescence shall not be a cause for rejection.
- a. Average compressive strength 8000 psi (55MPa) with no individual unit under 7200 psi (50 MPa).
 - b. Average absorption of 5% with no unit greater than 7% when tested according to ASTM C 140.
 - c. Resistance to 50 freeze-thaw cycles, when tested according to ASTM C1645, with no breakage greater than 1.0% loss in dry weight of any individual unit. Conduct this test method not more than 12 months prior to delivery of units.
 - d. Pigments in concrete pavers conforming to ASTM C 979.
 - e. Products:
 - i. Mainline Paver: Unilock Eco-Priora, with IL Campo finish, 1.5 mm beveled edge, and standard available color as selected by the City, or approved equal.
 - ii. Soldier Course at edge of pavement, around utility frames, and limits of pavers: Unilock Eco-Priora with finish and color to match the mainline pavers, or approved equal.

Permeable Joint Opening Aggregate:

Provide crushed, clean, washed angular stone permeable joint fill aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 9 as presented in the table below.

**PERMEABLE JOINT FILL AGGREGATE
GRADATION REQUIREMENTS**

ASTM No. 9	
Sieve Size	Percent Passing
3/8 in (9.5 mm)	100
No. 4 (4.75 mm)	85 to 100
No. 8 (2.36 mm)	10 to 40
No. 16 (1.18 mm)	0 to 10
No. 50 (0.30 mm)	0 to 5

Optional: Provide crushed, clean, washed granite chips conforming to ASTM C 33 and gradation requirements below.

- a. Suppliers: Kafka Granite LLC, Alliance Aqua-Roc, or SEK Perm Chip
- b. Color: To match color of mainline pavers.

**PERMEABLE JOINT FILL GRANITE CHIPS
GRADATION REQUIREMENTS**

1/8 to 3/16 in. chips	
Sieve Size	Percent Passing
1/4 in (6 mm)	97 to 100
No. 4 (4.75 mm)	70 to 83
No. 8 (2.36 mm)	37 to 50
No. 16 (1.18 mm)	0 to 12



Quality Assurance. Manufacturer shall be required to complete production of materials within 30 days after order has been placed to avoid construction delays.

- Source Limitations:
1. Obtain permeable concrete pavers from one source location with the resources to provide products of consistent quality in appearance and physical properties.
 2. Obtain permeable joint opening aggregate from one source with the resources to provide materials and products of consistent quality in appearance and physical properties.

Mockups: Install a 5 ft x 5 ft paver area over a completed area of setting bed in the presence of the Engineer. This area shall be used to determine surcharge of the bedding aggregate, joint sizes, lines, laying pattern(s) and levelness. This area will be used as the standard by which the work will be judged. Subject to acceptance by the Engineer, the mock-up may be retained as part of the finished work. If mock-up is not retained, remove and properly dispose.

Storage and Handling. Deliver permeable concrete pavers in manufacturers' original, unopened and undamaged container packaging with identification labels intact. Coordinate delivery and paving schedule to minimize interference with normal use of streets and sidewalks adjacent to paver installation and maintain installation efficiency. Deliver pavers to the site in steel-banded, plastic-wrapped packaging capable of transfer by forklift or clamp lift. Unload pavers at the site in such a manner that no damage occurs to the product or adjacent surfaces. Store and protect materials free from mud, dirt, and other foreign materials.

Provide a minimum of 5% additional material for overage to be used during construction. Furnish the City with 1 pallet of each product and size to be used for maintenance and repair from the same production run as the installed materials. Deliver the additional material to the City Public Works yard at 3505 N. Dries Lane, Peoria, IL 61604.

Stockpile permeable joint fill aggregate materials such that they are free from standing water, uniformly graded (avoid segregation), and free of organic material, sediment and debris.

Materials. Provide crushed, clean, washed angular stone permeable setting bed aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 8 as presented in the table below or IDOT CA-20*

**PERMEABLE SETTING BED AGGREGATE
GRADATION REQUIREMENTS**

ASTM No. 8 (IDOT CA-20*)	
Sieve Size	Percent Passing
½ in (12.5 mm)	100
3/8 in (9.5 mm)	85 to 100
No. 4 (4.75 mm)	10 to 30
No. 8 (2.36 mm)	0 to 10
No. 16 (1.18 mm)	0 to 5

If IDOT CA-20 is not available at the time of construction CA-16 may be substituted with the approval of the Engineer.

If using more than one supplier, the physical characteristics of material shall be nearly identical to avoid differing behaviors. If characteristics are different, only one supplier will be allowed unless a single supplier cannot meet the production rate needed to complete construction.

Storage and Handling. Stockpile permeable setting bed aggregate materials such that they are free from standing water, uniformly graded (avoid segregation), and free of organic material, sediment and debris.

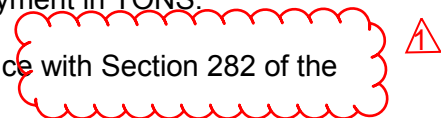
CONSTRUCTION REQUIREMENTS

General. Permeable base course shall be prepared in accordance with the section for PERMEABLE BASE COURSE. Do not install permeable setting bed on frozen, underwater, or settled permeable base course. Install permeable setting bed only in the areas intended to be covered by pavers the same day.

Setting Bed Placement. Spread permeable setting bed aggregate evenly over the permeable base course and screed to a nominal thickness of 1 inch. Do not exceed 1-1/2 inch thickness. Keep moisture content constant and density loose and constant until pavers are set and compacted. Do not disturb the screeded setting bed once it is ready for pavers.

Method of Measurement. AGGREGATE BASE COURSE, TYPE A, including Permeable Base Course and Permeable Setting Bed, will be measured for payment in TONS.

FILTER FABRIC shall be measured and paid for in accordance with Section 282 of the Standard Specifications.



PIPE UNDERDRAIN 4" shall be measured and paid for in accordance with Section 601 of the Standard Specifications.

Basis of Payment. This work will be paid for at the contract unit price per ton for AGGREGATE BASE COURSE, TYPE A and shall include all labor, equipment, and material necessary to place the two gradations of aggregate at the depths and locations indicated in the plans and in this specification.

field shall be the responsibility of the supplier. The three-sided precast concrete structure shall be placed according to applicable requirements of Article 542.04(d) of the Standard Specifications. When multi-spans are used a 3 in. minimum space shall be left between adjacent sections. After the precast units are in place and the backfill has been placed to mid height on each exterior side of the barrel, the space between adjacent units shall be filled with Class SI concrete. The Class SI concrete shall be according to Section 1020, except the maximum size of the aggregate shall be 3/8 in.

Method of Measurement. Three sided precast concrete structures will be measured in feet. The overall length shall be measured from out to out of headwalls along the centerline of each span of the structure. Class SI concrete placed between adjacent spans, grouted keyways or mechanical connections between precast units, and mechanical connections between the precast units and the substructure will not be measured for payment.

The payment limit for structure excavation shall be two feet beyond the concrete footing, as shown on the plans. Backfill for structure excavation and over excavation shall be the same material specified for roadway embankment. Any additional backfilling requirements based on the precast supplier's design will not be measured for payment.

Basis of Payment. This work will be paid for at the contract unit price per foot for THREE SIDED PRECAST CONCRETE STRUCTURE 30x10. Rock excavation will be paid for separately according to Article 502.13 of the Standard Specifications.

The cost of specified cast-in-place headwalls, wingwalls and footings will not be included in this item but will be paid for separately.

FILTER FABRIC

This work shall consist of furnishing and placing a geotextile material conforming to the following performance characteristics, measured per the test methods referenced:

1. 4 ounce, nonwoven needle punched geotextile composed of 100% polypropylene staple fibers that are inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.
2. Grab Tensile Strength: ASTM D4632: 115 lbs
3. Grab Tensile Elongation: ASTM D4632: 50%
4. Trapezoidal Tear: ASTM D4533: 50 lbs
5. Puncture: ASTM D4833: 65 lbs
6. Apparent Opening Size: ASTM D4751: 0.212 mm, 70 U.S. Sieve
7. Permittivity: ASTM D4491: 2.0 sec – 1
8. Flow Rate: ASTM D4491: 140 gal/min/s.f.

Basis of Payment: This work will be paid for at the contract unit price per square yard for FILTER FABRIC.