



## Sole/Single Source Form

Complete one form for each sole/single source expenditure as it applies and attach a sole source letter from the vendor. All forms are valid for one (1) year from approval date unless specified by Purchasing below. Request \$50,000 and greater will be routed to all signature parties and requires City Council approval prior to the purchase.

Return completed forms to Purchasing at [Purchasing@killeentexas.gov](mailto:Purchasing@killeentexas.gov).

Department/Division: Engineering Requestor Name: Donald Wetzel  
Vendor Name: Donelson Construction, LLC Cost: \$ 2,587,264.80 Date: \_\_\_\_\_

Check each box that applies to your sole/single source purchase:

- Items available from only one source because of patents, copyrights, secret processes, or natural monopolies. Films, manuscripts, or books.
- Gas, water, or other utility services (Letter from vendor not required)
- Captive replacement parts or components for equipment.
- Books, papers, and other library materials for a public library available only from the persons holding exclusive distribution rights to the materials.
- Management services provided by a non-profit organization to a municipal museum, park, zoo, or other facility to which the organization has provided significant financial or other benefits.
- Annual maintenance for software and equipment the City already owns.
- Single source because of standardization, warranty, or other factors.
- Other Asphalt Surface Treatment - PressurePave®-Modified Aggregate Quick Set (MAQS®) Systems

Describe in detail the product and/or service to be procured and how they meet your needs.

The patented PressurePave® system is one of the most versatile tools in the pavement preservation industry. Able to preserve pavements many would consider to be candidates for mill and overlay, this hybrid system pressure-injects a crack sealant into pavement while simultaneously applying a durable thin asphalt overlay. This system is more efficient and cost effective than many other pavement preservation options. With a price that can be significantly less than the cost of a mill and asphalt overlay, and a 15-year average surface life, the life cycle cost is ideal for public and private agencies wishing to cut costs or double the amount of roadways they are able to treat. Whether it is a residential street or busy arterial, the time it takes to repair/resurface and return roadways back to normal traffic flow is extremely important to the public. With PressurePave®, one simple application accomplishes what would historically require multiple products, processes and traffic disruptions. The chemical reactions within the PressurePave® materials enables a resurfaced pavement to be ready for initial traffic flow usually within 30 minutes.

Department/Division Head Signature: Andrew Zagars Digitally signed by Andrew Zagars  
DN: cn=AS, email=azagars@killeentexas.gov, o=City of Killeen, ou=Engineering, cn=Andrew Zagars

Purchasing division justification:

Director of Procurement Signature: Sophonia Price Digitally signed by Sophonia Price  
Date: 2025.03.31 18:19:15 -05'00'

Approved  Disapproved

Expiration Date: 03.31.2026

*The approvals on the following page are required for expenditures \$50,000 and greater:*

Executive Director of Finance Signature: Lorianne Luciano Digitally signed by Lorianne Luciano  
Date: 2025.04.02 09:56:16 -05'00'  Approved  Disapproved  
Comments:

City Attorney Signature: Holli Clements Digitally signed by Holli Clements  
Date: 2025.04.03 13:41:53 -05'00'  Approved  Disapproved  
Comments:

City Manager Signature: Lauren Wilson Digitally signed by Lauren Wilson  
Date: 2025.04.03 13:55:47 -05'00'  Approved  Disapproved  
Comments:

## EXHIBIT "A"

### Specifications for PressurePave-MAQS® Surfacing System

(United States Patent 9,260,826 B2)

(United States Patent 7,312,262 B2)

(United States Patent 9,879,387 B2)

(United States Patent 11,060,248 B2)

**Note: Potential bidders must be pre-approved by the City prior to the bid date for their proposal to be considered. Pre-approval requirements are listed in paragraph 7.0 below.**

### **1.0 Description**

1.1 This work shall consist of the simultaneous application of PressurePave Sealant Material (PSM) and Modified Aggregate Quick Set (MAQS®) slurry surfacing to asphaltic pavement surfaces and related preparation. PSM shall consist of modified asphaltic emulsion, mineral aggregate, additives and water. The MAQS mixture shall consist of a cationic latex modified asphaltic emulsion, mineral aggregate, Portland cement, set-control additives and water. Both mixtures shall be properly transported, proportioned, mixed and evenly spread on the asphaltic pavement surface in strict accordance with the plans, these specifications and as directed by the City. Both mixtures shall simultaneously cure to provide a new surface that is uniform and homogeneous in appearance, substantially fills all cracks, and adheres firmly to the existing surface.

### **2.0 Materials**

2.1 PressurePave Sealant Material. PressurePave Sealant Material shall consist of modified asphaltic emulsion, mineral aggregate, additives and water. PSM shall be supplied by Donelson Sealant Technologies, Clever, MO per manufacturers specifications.

2.2 MAQS Surfacing Material.

2.2.1 Latex Modified Asphalt Emulsion. The asphalt shall be a latex modified grade CSS-1h emulsified asphalt. The asphalt shall be modified with DST-SCA, set control agent from Donelson Sealant Technologies, Clever, MO to achieve the performance requirements of paragraph 3.0 contained herein.

2.2.2 Mineral Aggregate

2.2.2.1 The mineral aggregate used shall be of the type and grade for the particular use of the MAQS surface. The aggregate shall be manufactured crushed Burlington limestone, from Clever Stone Company, Inc., located in Clever, Missouri.

2.2.2.2 The aggregate shall be proportioned such that two portions shall be used, one with a higher abrasion resistance than the second portion. The first portion shall be provided such that 45-55%, by weight, shall be used; the second portion shall be provided such that the balance, or 45-55%, by weight, shall be used.

2.2.2.3 Aggregate used for this project shall conform to the following requirements when tested in accordance with the specified test methods:

<u>TEST</u>	<u>METHOD</u>	<u>REQUIREMENT</u>
Sand Equivalent	ASTM D 2419	65 minimum
Abrasion Resistance after 500 revolutions		
Portion 1	ASTM C 131	17-23%
Portion 2	ASTM C 131	26-34%
Soundness of Aggregates by use of Sodium Sulfate, 5 cycles	ASTM C 88	2% maximum

2.2.3 Mineral Filler. The Portland Cement mineral filler shall be any recognized brand of non-air entrained Type I Portland cement and shall be mixed at a rate between 0.25% and 2.0% by the weight of dry aggregate.

2.2.4 Water. The water shall be potable, free of harmful soluble salts, and shall be added in an amount to provide proper consistency.

2.2.5 DST-Flex field additive. To improve the flexibility and moisture resistance of the composition, DST-Flex field additive shall be added on job site as needed. DST-Flex shall be added to the mixture by methods and in quantities as recommended by the manufacturer, Donelson Sealant Technologies.

2.2.6 DST-CE additive. To enhance the black appearance of the finished surface, DST-CE may be added to the mixture by methods and in quantities as recommended by the manufacturer, Donelson Sealant Technologies.

**3.0 Composition of MAQS Surfacing Mixture**

3.1 The proposed MAQS mixture to be used for this project shall conform to the requirements specified when tested in accordance with the following tests. The residual asphalt content for these tests shall be 8.3% for MAQS-2, and 7.5% for MAQS-3. The

emulsion design (i.e. surfactant content, surfactant solution ph, etc.) shall remain constant throughout all of the tests below, and shall not be altered from this design for project installation without consent of the City.

	<u>DESCRIPTION</u>	<u>REQUIREMENT</u>
Deep Dish Test Method	Cure time/strength	30 minutes: 5.5 mm 60 minutes: 4.0 mm 90 minutes: 3.5 mm
<u>ISSA TEST</u>	<u>DESCRIPTION</u>	<u>REQUIREMENT</u>
TB 139	Wet Cohesion	
	30 minutes (set time)	18 kg-cm minimum
	60 minutes (traffic time)	20 kg-cm min. (Or near spin)
TB 109	Excess Asphalt	30 g/ft <sup>2</sup> maximum
TB 114	Wet Stripping	Pass (90% minimum)
TB 100	Wet Track Abrasion (For MAQS-3 a 3/8-inch mold shall be used)	
	One hour soak, loss	20 g/ft <sup>2</sup> maximum
	Six day soak, loss	30 g/ft <sup>2</sup> maximum
TB 113	Mix Time @ 25°C (77°F)	Controllable to 280 seconds minimum
TB 147	Measurement of Stability	
	Lateral Displacement	1% maximum
	Vertical Displacement	5% maximum

3.2 A mix design report shall be reported on an independently owned and operated testing laboratory's letterhead, demonstrating compliance with the performance tests.

#### **4.0 Application**

4.1 PSM material shall be delivered to the road surface per PSM manufacturers specifications and by pressurized injection methods and equipment described in United States Patent 9,879,387 B2, and United States Patent 9,260,826 B2.

4.2 Spreading of Mixtures.

4.2.1 PSM material shall be applied first, immediately followed by installation of MAQS material, essentially allowing for a simultaneous application and cure of both.

4.2.2 Cul-de-sacs. PSM material shall only be applied in areas where feasible. In cul-de-sacs that are without central unpaved areas (islands), MAQS surfacing material shall be applied via spreader box only. Hand application of material shall only be allowed in areas consistent with normal spreader box application techniques (transverse and longitudinal joints). In cul-de-sacs, including those that contain unpaved islands, the spreader box pass following the outer arc of the cul-de-sac shall be achieved in a single continuous manner without stopping.

4.3 Application Rate.

4.3.1 PSM. PSM material shall be applied at a rate consistent with PSM manufacturers specifications.

4.3.2 MAQS-2. Single lift applications of MAQS material shall be applied in one (1) lift of 17-22 pounds per square yard of the dry mass of the mineral aggregate.

4.3.3 MAQS-3. Single lift applications of MAQS material shall be applied in one (1) lift of 24-30 pounds per square yard of the dry mass of the mineral aggregate.

4.3.4 MAQS-Flex. At the discretion and under direction of the City, areas designated shall be applied with MAQS treated with DST-Flex field additive.

## **5.0 Work Experience and Workmanship**

5.1 The Contractor shall be required to have at least two (2) years of work experience in the application of these precise materials, methods of placement, and scope of work as described herein.

## **6.0 Method of Measurement and Basis of Payment**

6.1 Measurements for the payment of PSM, MAQS-1, MAQS-2, MAQS-3 and MAQS-FlexScratch surfacing will be made to the nearest square yard.

6.2 These contract prices shall be awarded as "All or None".

## **7.0 Contractor Pre-Qualification Requirements**

7.1 Potential bidders must be pre-qualified by the City prior to the bid opening date for the bid to be considered. Prequalification requirements are due 48 hours prior to the bid opening date and time. Pre-qualification will be determined based on information provided as follows in paragraphs 7.2 and 7.3 below. All information is required for approval.

7.2 The potential bidder shall submit a letter of verification addressed to the City from the proposed PSM, emulsified asphalt, and aggregate suppliers stating the following:

1. The proposed supplier will provide (PSM / emulsified asphalt / crushed aggregate) to the Contractor specifically for this project.
2. The proposed supplier is aware of the specifications contained herein and agrees to abide by them.

7.3 The potential bidder shall submit a letter of verification addressed to the City stating the project(s), and agency contact(s) that satisfies the minimum work experience requirements described in paragraph 5.1 herein.