

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: August 20, 2013  
Date of Addendum: August 7, 2013

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
102	91-C091-090	PCC OVERLAY- UNBONDED	WARREN	STP-S-C091(90)--5E-91	20AUG102.A02

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Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

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Make the following change to the plan:

Replace SHEET NUMBER C.04 with the attached SHEET C.04:

## Fabric Bond Breaker

2599.1 Scope. This specification covers geotextile for use as a unbonded concrete overlay interlayer.

2599.2 Acceptance. Acceptance of this material will be based on the manufacturer's certification and upon the results of such tests as may be performed by the engineer.

2599.3 Material. Geotextiles shall be in accordance with the physical and chemical requirements of AASHTO M 288 for the specified application, except as modified in this specification.

2599.3.A Unbonded Concrete Overlay Interlayer. Unbonded concrete overlay interlayers shall have the following material properties:

Property	Requirement	Test Method
Fabric Type	Non-Woven Geotextile, no thermal treatment.	EN 13248, Annex F
Mass per unit area	$\geq 13.3 \text{ oz/sg.yd}$ $\leq 16.2 \text{ oz/sg.yd}$	ASTM D 5261
Thickness under load (pressure)	$0.29 \text{ psi: } \geq 0.12 \text{ in}$ $2.9 \text{ psi: } \geq 0.10 \text{ in}$ $29 \text{ psi: } \geq 0.04 \text{ in}$	ASTM D 5199, modified under loads of 0.29, 2.9 and 29 psi
Tensile Strength	$\geq 665 \text{ lb/ft}$	ASTM D 4595
Maximum elongation	$\leq 130\%$	ASTM D 4595
Water permeability in normal direction under load (pressure)	$\geq 3.3 \times 10^{-4} \text{ ft/s}$ (under pressure of 2.9 psi)	ASTM D 5493
Water permeability in the plane direction of the fabric (transmissivity) under load (pressure)	$\geq 1.6 \times 10^{-3} \text{ ft/s}$ (under pressure of 2.9 psi) $\geq 6.6 \times 10^{-4} \text{ ft/s}$ (under pressure of 29 psi)	ASTM D 6574
Weather resistance	Resistance $\geq 60\%$	EN 12224
Alkali resistance	$\geq 96\%$ Polypropylene/polyethylene	EN 13249, Annex B

2599.4 Certification. The contractor shall furnish a manufacturer's certification to the engineer for each lot of material furnished stating the name of the manufacturer, the chemical composition of the filaments or yarns and certifying that the material supplied is in accordance with this specification. The certification shall include or have attached typical results of tests from specific lots for all specified requirements.

2599.5 The underlying surface is to be swept to remove loose debris before applying the interlayer.

2599.6 The geotextile shall be tight and without excess wrinkles and folds.

2599.7 If construction traffic is expected on the grade in front of the paver, no more than 650 ft. of geotextile should be installed in advance of the paving operation at any given time. Driving on the interlayer should be kept to a minimum. Do not place the interlayer on areas subject to excess traffic (e.g., crossovers). Installation of the interlayer should be delayed on these areas until immediately before concrete placement.

2599.8 The interlayer shall be secured to the underlying surface with pins or nails punched through 2 to 2.75 inch galvanized washers or disks every 6 feet or less. Additional fasteners can be used as needed to ensure that the interlayer does not shift or fold before and during concrete placement.

2599.9 No more than 3 layers of the geotextile shall overlap at any location. When it occurs, edges of the geotextile shall overlap by 12 inches. Care shall be taken to roll out the geotextile in a sequence that will facilitate good lapping practice and preventing folding or tearing by construction traffic.

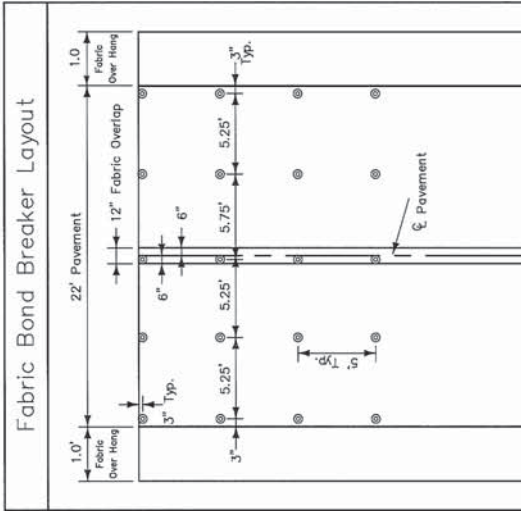
2599.10 The free edge of the interlayer shall extend beyond the edge of the new concrete and into a location that facilitates drainage by 4 inches or more. More specifically, the interlayer must terminate to a drainable pavement layer, or be exposed in such a way that the free drainage of water within the interlayer is not impaired.

2599.11 The interlayer shall be dry before concrete placement.

2599.12 Driving on the interlayer shall be kept to a minimum. Keep the interlayer clean and free of loose debris before concrete placement.

2599.13 Method of Measurement shall be the quantity, in square yards to the nearest 0.1 square yard, as shown in the contract documents.

2599.14 Basis of Payment shall be the contract unit price for Fabric Bond Breaker per square yard. Payment is full compensation for furnishing all materials, labor and equipment necessary for installing the fabric interlayer as required.



Fabric = 15' wide x 300' long.  
 Longitudinal Lap - No more than 12" with the top layer in direction of paving.