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Theodore R. Kulongoski, Governor

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DATE: January 27, 2010

Addenda No. 1

TO: **PLAN HOLDERS**

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SUBJECT: Gladstone Pavement Preservation Project
Various Streets
Clackamas County
Paving Project
(Bids to be opened and read February 4, 2010)

The following changes are made to the Project Special Provisions:

1. Subsection 00350.41(f)(5) Geotextile Placement - This subsection is added after subsection 00350.10:

   00350.41(f)(5) Geotextile Placement – Add the following paragraph to the end of this subsection:

   The minimum aggregate lift thickness above subgrade geotextile of 6 inches shall be met unless otherwise shown on plans.

2. Section 02320 Geosynthetics - This Section is added after Section 02030. See attachment for full text.

These changes will be included in the Contract for this Project. It is understood that your Bid will be submitted accordingly.

ace:rlcr

Attachments: New Special Provisions Section

SECTION 02320 – GEOSYNTHETICS

Comply with Section 02320 of the Standard Specifications supplemented and/or modified as follows:

02320.10(a)(2) Geogrids: Add the following to the end of the bulleted list:

- Multiple layers of geogrid used to meet the requirements set forth in Table 02320-2 shall not be accepted.

Add the following section:

02320.21 Geogrid Property Values: The following tables are applicable for Base Reinforcement Geogrids.

TABLE 02320-2 Geogrid Property Values (English)

Geogrid Property	***Test Method***	**Machine Direction MD[1]**	**Perpendicular to Machine Direction XMD[1]**
Aperture Size	I.D. Calipered	Min – 1 in Max – 1.5 in	Min – 1 in Max – 1.5 in
Rib Thickness	Calipered	0.05 in	0.05 in
Tensile Strength at 2% Strain	ASTM D6637[2]	410 lb/ft	620 lb/ft
Flexural Stiffness	ASTM D-5732-95[3]	750,000 mg-cm	--
True Initial Modulus in Use	ASTM D6637[2]	27,420 lb/ft	44,550 lb/ft
Junction Efficiency	GRI-GG2-87	93%	93%
Secant Aperture Stability Modulus @ 20 cm-kg	U.S. Army Corps of Engineers Methodology	0.65	--

1. All numeric values represent minimum average roll values required in the designated direction.
2. Resistance to elongation when initially subjected to load measured via ASTM 6637 without deforming test materials under load before measuring such resistance or employing "secant" or "offset" tangent methods of measurement.
3. Resistance to bending force measured via ASTM D-5732-95, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of logitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang dimension. The overall Flexural Stiffness is calculated as the square root of the product of machine-and cross-machine-direction Flexural Stiffness values.