

HIDALGO COUNTY PRECINCT #2
“PURCHASE OF GEO-GRID REINFORCEMENT MATERIAL”
BID NO. 07-19-00-00-otm

SPECIFICATIONS

DESCRIPTION: This item consist of furnishing geo-grid reinforcement material.

MATERIALS: The geo-grid shall be single layer grid structure formed by a regular network of integrally connected polymeric tensile elements with apertures designed to interlock with the surrounding fill material. The structure shall be capable of maintaining dimensional stability during placement and under normal construction traffic. The geo-grid shall be resistant to damage during construction, including ultraviolet degradation, and shall have long-term resistance to chemical and biological degradation caused by the material being reinforced. No multiple layered grids are acceptable.

The geo-grid shall also conform to the properties specified below.

STRUCTURAL GEO-GRID PROPERTIES
TABLE A

PROPERTY	TEST METHOD	UNITS	TYPE 1	TYPE 2
Aperture Stability Modulus at 20 cm-kg	Kinney-01	cm-kg/deg	3.2	6.5
Rib Shape	Observation	N/A	Rectangular or Square	Rectangular or Square
Rib Thickness	Calipered	in	0.03	0.05
		(mm)	(0.76)	(1.27)
Aperture Size	I.D. Calipered	in	0.9 to 1.5	0.9 to 1.5
		(mm)	(25 to 33)	(25 to 33)
Junction Efficiency	GRI-GG2-87	%	90	90
Flexural Rigidity	ASTM D1388-96	mg-cm	250,000	750,000
Minimum True Initial Modulus in Use	ASTM D6637-01			
-MD		lb/ft	15,170	32,890
		(kN/m)	(226)	(360)
-CMD		lb/ft	24,685	44,725
		(Kn/m)	(481)	(652)

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SPECIFICATIONS CON'T.

MATERIALS
CON.T'.:

Alternate geo-grid material will be considered. Such materials must be pre-approved in writing by the Engineer prior to bid date. Alternate material packages must be submitted to the Engineer a minimum of 15 days prior to bid date. Submittal packages must include, as a minimum, the following:

1. Full-scale laboratory testing and in-ground testing of pavement structures reinforced with the specific geo-grid, which quantifies the structural contribution of the geo-grid to the pavement structure. The increase in structural layer coefficient of the base course must meet or exceed that of the design geo-grid.
2. Independent certified tests results stating that the alternate geo-grid has a secant aperture stability modulus at 20 cm-kg, when tested in accordance with the “Grid Aperture Stability by In-Plane Rotation” test of 3.2 or greater.
3. A list of 5 comparable projects, in terms of size and applications, in the United States, where the results of the specific alternate geo-grids use can be verified after a minimum of 1 year of service.
4. A sample of the geo-grid and certified specification sheets.

MANUFACTURER'S
REPRESENTATIVE

A qualified and experienced representative from the geo-grid manufacturer available on an as needed basis during the construction and or installation of the product. The representative shall visit the site for consultation at least once during the construction and or installation of the product.

PACKING:

The geo-grid shall be packaged in rolls with length between 200 feet and 250 feet and widths of 12 to 15 feet and 8 to 10 feet.

Each roll shall be one continuous piece packaged in a suitable sheath, wrapper or container to protect the geo-grid from damage due to ultraviolet light, moisture, and normal storage and handling.

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PRODUCT: Geo-grid shall be TENSAR BX1100 for type 1 and TENSAR BX1200 for Type 2 or approved equal meeting the material requirements stated herein on Table A.

BID AWARD: Bid commencing upon bid award and continuing for a period of one (1) year.

All costs and expenses associated with the preparation and submission of bid shall be the responsibility of the submitter and no reimbursements for such charges or expenses shall be passed on to the County.

ADDITIONAL INFORMATION:

Further information required for this project can be addressed through the Hidalgo County Purchasing Department through Olga T. Montero. Hidalgo County is also requesting that any and all questions, inquiries and clarifications regarding quotes, bids, proposal or statement of qualifications be addressed to Martha L. Salazar, CPPB/Purchasing Agent at 100 East Cano, 4th Floor, Edinburg, Texas 78539. TELEPHONE INQUIRIES WILL NOT BE ACCEPTED.

All written inquiries will be accepted via facsimile no later than, Wednesday, 2007, at 5:00 p.m., at (956) 318-2629. Responses to said inquiries will be sent to all applicants via facsimile by no later than 5:00 p.m., Friday, , 2007.

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BID PAGE

DESCRIPTION:

UNIT PRICE:

TYPE 1 GEO GRID AS PER SPECIFICATIONS
ADDITIONAL CHARGES:

\$ _____
\$ _____

TYPE 2 GEO GRID AS PER SPECIFICATIONS
ADDITIONAL CHARGES:

\$ _____
\$ _____

BIDDER'S NAME:

ADDRESS:

CITY/STATE/ZIP CODE:

PHONE NUMBER:

FAX NUMBER:

AUTHORIZED SIGNATURE:

PRINTED NAME:

TITLE:

DATE:

TOTAL BID PRICE:

NOTE: UNIT PRICE TO BE GOOD FOR A PERIOD OF 1 (ONE) YEAR FROM DATE OF ACCEPTANCE.