1	Make the following section a part of the Standard Specifications:				
2 3	"SECTION 316 – POLYPROPYLENE BIAXIAL GEOGRID				
4 5 6	316.0 biaxia	Description. This work includes furnishing and placing polypropylene geogrid on the subgrade below the Aggregate Base Course.			
7 8 9	316.0	Material. The grid material shall meet the following:			
10 11	The biaxial geogrid shall be a punched and drawn polypropylene geogrid with the following characteristics based on the minimum average roll values (MARV):				
12 13	•	• Aperature Dimensions = 1 to 1.3 inches			
14 15	•	Minimum Rib Thickness = 0.05 inch			
16 17 18 19	•	Tensile Strength at 2% Strain (ASTM D6637-01) = 380 lb/ft in machine direction, 510 lb/ft in cross-machine direction			
20 21 22	•	Tensile Strength at 5% Strain (ASTM D6637-01) = 720 lb/ft in machine direction, 1,000 lb/ft in cross-machine direction			
23 24 25	•	Ultimate Tensile Strength (ASTM D6637-01) = 1,400 lb/ft in machine direction, 1,610 lb/ft in cross-machine direction			
26 27	•	Junction Efficiency (GRI-GG2-05) = 93%			
28 29	•	Flexural Stiffness (ASTM D5732-01) = 750,000 mg-cm			
30 31 32	•	Aperture Stability (U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity) = 0.48 m-N/deg			
33 34	•	Resistance to Installation Damage in Gravel = 75%			
35 36	•	Resistance to Long Term Degradation (EPA 9090 immersion test) = 100%			
37 38	•	Resistance to UV Degradation (500 hours of UV in accordance with ASTM D4355-05) = 100%			
39 40	316.0	Construction Requirements.			
41 42 43 44		Place geogrid onto the geotextile fabric or compacted Imported Granular Backfill.			
44 45 46 47		The geogrid material shall have a minimum overlap of 12 inches for transverse joints. The means and methods to attain this minimum overlap is the responsibility of the Contractor. However, one method could involve			

48 49	remove when excavating the adjacent area.			
50	remove when executating the adjacent area.			
51	Due to the grid being used only for the sidewalks, there should be no longitudinal			
52	joints.			
53				
54	316.04 Method of Measurement. The Engineer	0 0 .		
55	square yard of geogrid finished surface, not including overlaps.			
56				
57	316.05 Basis of Payment. The Engineer will pay			
58	at the contract unit price per square yard. Payment will be full compensation for			
59	the work prescribed in this section and the contract documents			
60				
61	The Engineer will pay for the following pay item when included in the			
62	proposal schedule:			
63				
64	Pay Item	Pay Unit		
65				
66	Polypropylene Biaxial Geogrid	Square Yard"		
67				
68				
69				
70	END OF SECTION 316			

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