

TITLE: RESEARCH DOCUMENTING TRIAX GEOGRID PERFORMANCE IN RIGID PAVEMENT APPLICATIONS SPECIFIC TO CALTRANS DESIGN METHODOLOGY

No.	Project	Location	TriAx Pavement Area	Section Description			Performance Comparison			Comments
				TriAx AS Section	Control AS Section (no geogrid)	Subgrade	TriAx Enhanced Sub-base Resilient Modulus	TriAx Reduction in Surface Deformation	Improved Uniformity	
			Square Feet	Feet	Feet	Type	% Improvement	% Reduction	Yes or No	
1. PERFORMANCE COMPARING 0.35 Feet AS ENHANCED TRIAX SECTION to 0.70 Feet AS CONTROL SECTION										
1	Caltrans Contract No. 07-252624	Interstate 5 In Los Angeles County	5,000,000 (72 Lane Miles)	0.35 Feet AS / TriAx NSSP	Control 1: 0.70 Feet AS Control 2: 0.85 Feet AS	2	Control 1: 125% Control 2: 95%	Control 1: 50% Control 2: 50%	Yes	
2	Caltrans Contract No.: 08-0A0204	Scott Road/ Interstate 215 Interchange Project, Menifee, CA	600,000 (9 Lane Miles)	0.35 Feet AS / TriAx NSSP	0.70 Feet AS	2	46%	45%	Yes	Subgrade was 8% softer on the TriAx section compared to control section
3	Caltrans Contract No. 11-2T2184 (North Coast Corridor)	Interstate 5 in San Diego, CA		0.35 Feet AB / TriAx NSSP	0.70 Feet AB	2	14%	45%	Yes	
4	Caltrans Contract No. 07-286904	State Highway 60 From Rte. 605 Separation to 57/60 Separation	1,170,000 (17 Lane Miles)	0.35 Feet AS / TriAx NSSP	0.70 Feet AS	2	N/A	N/A	Yes	7 year performance monitoring. A control section (0.70 ft. AS without geogrid) was constructed as part of the construction of the pavement section. in 2016, Applied Research Associates (ARA) performed a pavement condition survey. The survey indicated that the TriAx NSSP Geogrid sections are performing as well or better than the control section with good Pavement Condition Index (PCI) ratings and International Roughness Index (IRI) values 50% better than the control section.
5	Weld County Colorado Road 47	Greeley Colorado		0.35 Feet AS / TriAx NSSP	0.70 Feet AS	2	42%	31%	Yes	Subgrade was 11% softer on the TriAx section compared to control section
6	Los Angeles Transportation Center (Union Pacific Railroad)	Los Angeles, CA		0.45 Feet AS / TriAx NSSP	1.0 Feet AS	2	15%	45%	Yes	
7	US Highway 89/ SR98/ Navajo Route 20	Page, Arizona	5,247,000	0.35 Feet AS / TriAx NSSP	N/A	2	N/A	N/A	Yes	6 year performance monitoring. Test results are showing that the road is meeting the design requirements with good IRI readings.
2. PERFORMANCE COMPARING 0.50 Feet ENHANCED TRIAX SECTION ON PUMPING TYPE 3 SUBGRADE										
8	Caltrans Contract No. 11-413604	Interstate 8 in Imperial County near El Centro	1,800,000 (26 Lane Miles)	0.50 Feet placed on TriAx NSSP	N/A	3	N/A	N/A	Yes	Surface of 0.50 Feet AS placed on TriAx was firm and unyielding for HMA Paver. Average Composite Mr of 16,533 psi. (greater than an R-Value 50