PROJECT INFORMATION				
Project ID:				
County:		RPG ¹ :	F	Route:
Description:				
Latitude (4 decimals):		L	ongitude (4 decimals):	
SEISMIC REQUEST The SCDOT <u>Geotechnical Design Manual</u> (GDM) and <u>Seismic Design Specifications for Highway Bridges</u> (Seismic Specs), latest editions, provide detailed seismic design requirements for transportation structures. The Office of Engineering Support Geotechnical Design Section (OES/GDS) will be generating seismic design information from, SCENARIO_PC, the seismic analysis software. The OES/GDS will provide the completed 3-Point curve based on the information provided on this form in general accordance with the procedures contained in the GDM. The 3-Point curve will be for 5% critical damping and will be based on either the B-C Boundary (Geologically Realistic) or Hard Rock Outcrop for specific project locations within South Carolina. The Site Geologic Condition shall be determined using the guidance contained in the GDM, which is summarized in the following statements. The Geologically Realistic option is for sites in the Coastal Plain with a sediment thickness greater than 330 feet to sediment having a V _s 2,500 feet per second (ft/s) (NEHRP B-C Boundary). Geologically Realistic conditions can also be encountered outside of the Coastal Plain where the sediment thickness is 330 feet or less above the basement rock and the V _s ≥ 8,200 ft/s. The Hard Rock Outcrop option is for an outcrop of hard rock (V _s ≥ 11,500 ft/s). The GDM contains a map to assist in determining the Site Geologic Condition. South Carolina is divided in 2 zones, Zone I – Physiographic Units Outside of the Coastal Plain and Zone II – Physiographic Units of the Coastal Plain. The provided 3-Point curve shall include both the FEE and the SEE events since all bridge embankments are required to be designed for both the FEE and SEE. For ERSs located within the roadway embankment only the SEE will be used; however, if in the opinion of the design team a 2-level design should be performed. The OC and Bridge Seismic Level of Design shall be determined as defined in the SEIs of (V _s ≥ 11,500 ft/s) is encountered at the ground surf				
Geologically Realistic				
Vs Profile to the B-C Boundary Provided \Box Hard Rock Basement OutcropVs Profile to Vs \leq 8,200 ft/s Provided \Box Vs Profile to Vs \geq 11,500 ft/s Provided \Box				
		REQUE	STOR INF	ORMATION
Requesto				
-	ny Name:			
	Number:	() -		
	Address			
Reque	est Date:			

RPG – Regional Production Group 1 – Beaufort, Berkeley, Charleston, Colleton, Dorchester, Hampton, Jasper

- 2 Chesterfield, Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Kershaw, Lee, Marion, Marlboro, Sumter, Williamsburg
- 3 Aiken, Allendale, Bamberg, Barnwell, Calhoun, Chester, Fairfield, Lancaster, Lexington, Newberry, Orangeburg, Richland, Union, York
- 4 Abbeville, Anderson, Cherokee, Edgefield, Greenville, Greenwood, Laurens, McCormick, Oconee, Pickens, Saluda, Spartanburg
 Design-Build D/B