

7. Brief resume of key persons, specialists, and individual consultants anticipated for this project.	
a. Name & Title:	Marty Tittlebaum, PhD, PE.
b. Project Assignment:	Civil Engineer
c. Name of Firm with which associated:	MSMM Engineering, LLC
d. Years experience: With This Firm <u>2</u> With Other Firms <u>40</u>	
e. Education: Degree(s)/Year/ Specialization	BE, 1971, Civil Engineering, University of Louisville ME, 1972, Environmental Engineering, University of Louisville Ph.D., 1979, Environmental Engineering, University of Louisville
f. Active Registration: Year First Registered/Discipline	1980, Civil Engineering, LA No. 18997 1994, Environmental Engineering, LA No. 18997
g. Other Experience and Qualifications relevant to the proposed project:	<ul style="list-style-type: none"> ▪ West End Neighborhood Recovery Roads, New Orleans, LA (QA/QC; Agency Coordination). Provided QA/QC on the initial damage estimate and amend the corresponding FEMA reimbursement estimates for ‘additional’ damages for streets damaged in West End neighborhood as a result of Hurricane Katrina and subsequent debris hauling action. Approximately 60,478 ft (11.5 miles) of roadway, 15 neighborhood streets, Assessment based on Compliance with Ordinance, Base Failure, and Heavy Equipment Usage; Review of Pictometry and Google satellite mapping to identify pre- and post-Hurricane Katrina conditions in the subject streets to substantiate damage calculations; Maps and forms to facilitate field visits; CAD and GIS drafting to lay additional damage items on each plan sheet; Updated spreadsheets, and prepare image record; Simultaneous work effort of field work, report preparation, calculation, and revisions due to changes in standards; Topographic survey including utilities information; Environmental study per FHWA guidelines to complete NEPA documentation. ▪ CDBG Environmental Review, Jefferson Parish, LA (QA/QC). Provided QA/QC on eleven (11) concurrent US HUD CDBG funded projects for recovery from damages due to Hurricanes Gustav and Ike of 2008. Tasks included NEPA documentation, and agency coordination (State CDBG/LRA, FEMA, municipalities, facility owners, grant managers). The types of project included roadways (repair of more than 100 streets in one municipality), sanitary sewer lift stations, wastewater treatment plant effluent pump stations, emergency generators, stormwater detention ponds, public auditorium rebuilding, senior art gallery renovation, and stormwater drainage improvements. The total amount of funding was \$27,143,935, which included eleven (11) projects: (i) Eastbank WWTP, (ii) Helios and West Napoleon sewer pump stations, (iii) Street repairs in Grand Isle, (iv) Water infrastructure repairs in Westwego, (v) Stormwater detention pond improvements in Gretna, (vi) Effluent pump station improvements in Harahan WWTP, (vii) Effluent pump station improvements in Harvey WWTP, (viii) Drainage improvements in Barataria, (ix) Drainage improvements in Lafitte, (x) Rehabilitation of Senior Art Gallery in Lafitte, (xi) Rebuilding of auditorium in Lafitte. Levels of environmental review ranged from exemption, through categorical exclusions, to environmental assessments. Significant coordination was conducted with FEMA’s environmental staff and PW staff to resolve environmental clearance issues. Also, successfully secured environmental clearance for a project that was under LDEQ’s Compliance Order deadlines.
	<ul style="list-style-type: none"> ▪ Plum Orchard Neighborhood Recovery Roads, New Orleans, LA (QA/QC; Agency Coordination). Provided QA/QC on the Substantiate initial damage estimate and amend the corresponding FEMA reimbursement estimates for ‘additional’ damages for streets damaged in Plum Orchard neighborhood as a result of Hurricane Katrina and subsequent debris hauling action. Approximately 42,105 ft (8 miles) of roadway, 31 neighborhood streets, Assessment based on Compliance with Ordinance, Base Failure, and Heavy Equipment Usage; Review of Pictometry and Google satellite mapping to identify pre- and post-Hurricane Katrina conditions in the subject streets to substantiate damage calculations; Maps and forms to facilitate field visits; CAD and GIS drafting to lay additional damage items on each plan sheet; Updated spreadsheets, and prepare image record; Simultaneous work effort of field work, report preparation, calculation, and revisions due to changes in standards; Topographic survey including utilities information; Environmental study per FHWA guidelines to complete NEPA documentation.