Supporting Computations for Pipe Replacements

County: _____ Designed by: _____ Date: _____

Road Name: _____ Stream Name: _____ FEMA Studied Stream? _____

Latitude: _____ Longitude: _____ (decimal degrees to 5 decimal places)

Drainage Area: _____ Drainage Area Source: _____

Discharge Frequencies: _____ Discharge Method/Equation(s): _____

Existing:

Existing Structure Size: _____ Height (invert to road grade): _____

Existing Waterway Opening: _____ Existing Pipe Length: _____ Existing Cover: _____

		Design	Inlet Control			Outlet Control					
Structure Size	Event	Discharge	K_e	HW/D	HW Depth	d_c	$(d_c+D)/2$	h_o	H	LS_o**	HW Depth

Proposed:

Proposed Structure Size: _____ Height (invert to road grade): _____ Proposed Cover: _____

Effective Waterway Opening: _____ Proposed Pipe Length: _____ Pipe Analyzed as _____

		Design	Inlet Control			Outlet Control					
Structure Size*	Event	Discharge	K_e	HW/D	HW Depth	d_c	$(d_c+D)/2$	h_o	H	LS_o**	HW Depth

Summary:

Recommended Structure: _____ (Bury = _____)

Existing HW = _____

Proposed HW = _____

*Proposed Structure Analyzed is one size smaller than the Recommended Structure.

** If LSo is not known, assume that the structure is flat.