

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0008-00(751) FULTON COUNTY
PARSONS RD over JOHNS CREEK
P.I. No. 0008751

OFFICE Atlanta, GA
DATE Sept. 19, 2013

FROM Benjamin F. Rabun, III, P.E., State Bridge Engineer

TO Charles A. Hasty, P.E., State Materials Engineer
Attn: Glen Foster

SUBJECT **FOUNDATION DESIGN DATA (LRFD)**

The following pile design loads, stress limits, and structural capacities have been calculated for the above listed structure. Please use the provided values to complete the Bridge Foundation Investigation report for this project.

Bent(s):	DESIGN LOADS:		Pile Size:	DRIVABILITY:		PILE DESIGN LOAD:
	Maximum Factored Load (kips)	Service Load (kips)		Stress Limits = σ_d		(Structural Capacity)
				Comp. (ksi)	Tens. (ksi)	P_R (kips)
1 and 4	180	119	HP10X42*	32.4	32.4	223.2
			HP12X53*	32.4	32.4	279.0
2 and 3	265	178	HP14X73*	32.4	32.4	385.2
			HP14X89*	32.4	32.4	469.8
			HP14X102*	32.4	32.4	540.0

*-GRADE 36 HP assumed.

If you have any questions please contact Douglas Franks of the Office of Bridges and Structures at 404-631-1917 or dfranks@dot.ga.gov .

BFR:DDF

cc: Bill DuVall, Bridge Design attn.: Doug Franks
Genetha Rice-Singleton, Program Delivery attn.: Merishia Robinson