

Date: xx/xx/2002

Memorandum to: Road Design Group Coordinator  
Bridge Design Squad/Team Leader

Wilbur Smith

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**From:** Hydraulic Design Squad/Engineer Wilbur Smith

**Subject:** Hydrology Data for Bridge Over Little River

County: Abbeville Rd/Rte.: SC 72 Const. Pin: 28267

Structure No.: 140072003008.290

Bridge Length: 717 ft. Bridge Roadway Width: 46'-10" ft.

Beg. Station: 442+69.98 End Station: 449+87 Skew Angle: 0°

Bridge Span Configuration: 100'-100'-117'-100'-100'-100'-100'

Bridge Span Type: \_\_\_\_\_

Min. F. G. Elev.: 413.96 ft. Min. Low Steel: 406.69 ft.

End Fill Slope: 2 Riprap Req'd: Yes ☒ To Elevation: 404.60 ft.

No

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Historical Highwater Elev. = \_\_\_\_\_

### Maximum Backwater Elevation Upstream of the Bridge

50 Year H. W. Elev. = 402.60 including ft. Backwater

100 Year H. W. Elev. = 403.29 including 0 ft. Backwater

## HYDROLOGY DATA:

D. A. = 173.4 sq. mi. = ac.

Q50=10553 cfs

Vel. =                      3.8 ft/sec

50 Year W.S. Elev = 402.60 ft.

$$Q_{100} = \underline{\hspace{2cm}} 12200 \text{ cfs}$$
$$\text{Vel.} = \frac{\quad}{\quad} 4.0 \text{ ft/sec}$$

100 Year W.S. Elev = 403.29 ft.

OVERTOPPING FLOOD:

$$Q = \quad \text{cfs}$$

Probability = < 0.002

cc: Program Manager Meetze