

DATE: 1/11/2001

MEMORANDUM TO ROAD DESIGN GROUP LEADER: M. SHUFORD (GROUP 9)

FROM: HYDRAULIC ENGINEERING SQUAD SUPERVISOR RAY VAUGHAN

SUBJECT: Hydraulic Engineering Data for Bridge over LITTLE RIVER  
Rt./Rd. S.C. ROUTE 201

*Abbeville Co.*

Bridge Length 250' (60' x 60' x 70' x 60') Bridge Roadway Width 44'

Beg. Sta. 292+77 End Sta. 295+27

Skew Angle N/A Minimum F.G. Elev. 509.80' (Min. L.C. Elev. 504.70')

End Fill Slope 2:1 Riprap Required Yes  
To Elev. 493.36' lt. & 495.23' rt.

Comments: The information contained in this memo is in addition to the previous memo that was submitted on 12/14/00.

High Water Data:

50-year H.W. Elev. = 502.83' including 0.13 ft. backwater

100-year H.W. Elev. = 503.41' including 0.16 ft. backwater

Highwater Elev. =

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Hydraulic Engineering Data:

D.A. = 73.37 sq. mi.

Q(50) = 6138 cfs

Area furnished under

Elev. 502.51' = 1702.50 sq. ft.

Vel. = 3.61 ft./sec.

Q100 = 7097 cfs

Area furnished under

Elev. 503.05' = 1814.35 sq. ft.

Vel. = 3.91 ft./sec.

Overtopping Flood:

Q = N/A cfs

Probability <0.002

*Pin 24887*