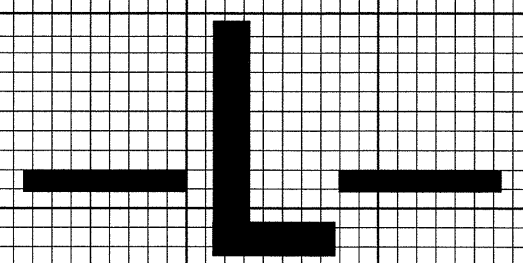
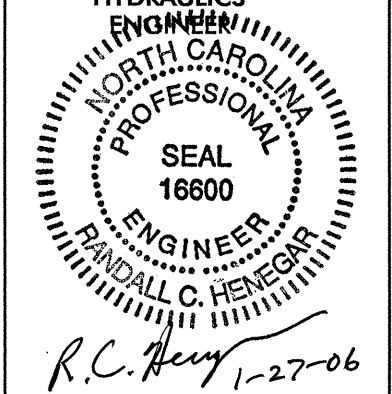
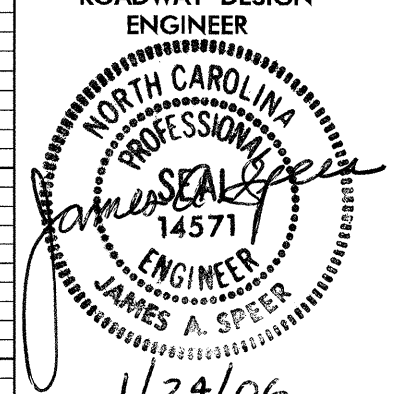


5/14/99

PROJECT REFERENCE NO. B-3349	SHEET NO. 5
ROADWAY DESIGN ENGINEER JAMES A. SPEER 1/24/06	HYDRAULICS ENGINEER RANDALL C. HENSON 1-27-06



**STRUCTURE HYDRAULIC DATA**

DESIGN DISCHARGE = \*2700CFS  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN HW ELEVATION = \*2.54 FT  
 BASE DISCHARGE = \*3300CFS  
 BASE FREQUENCY = 100 YRS  
 BASE HW ELEVATION = \*2.94 FT  
 OVERTOPPING DISCHARGE = \*5000CFS  
 OVERTOPPING FREQUENCY = 500 YRS  
 OVERTOPPING ELEVATION = 4.8 FT

\* THE DESIGN AND 100 yr. STORMS WERE ANALYZED IN HEC-RAS AND DID NOT TAKE INTO ACCOUNT STORM SURGE SITUATIONS. THE PROPOSED BRIDGE IS AN "IN-KIND" REPLACEMENT AND WILL PROVIDE MORE WATERWAY OPENING.

BEGIN GRADE -L- STA 12+00  
 ELEV. = 5.50'  
 INCLUDES 1 1/4" RESURFACING

END GRADE -L- STA 19+50  
 ELEV. = 5.24'  
 INCLUDES 1 1/4" RESURFACING

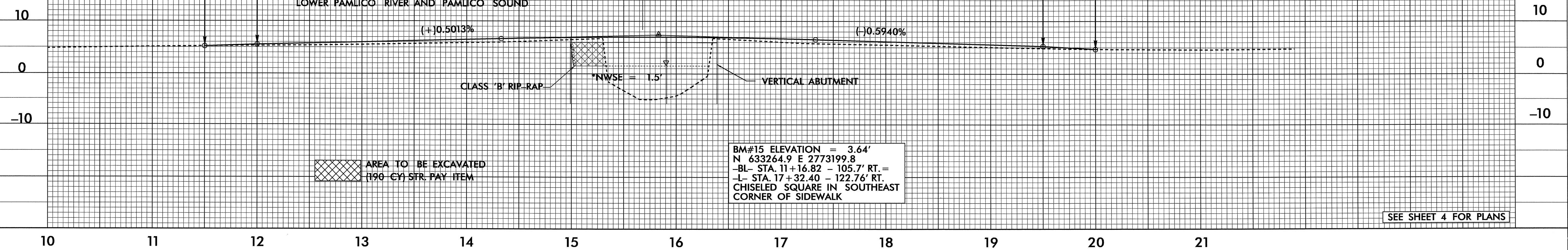
BEGIN RESURFACING  
 -L- STA 11+50

END RESURFACING  
 -L- STA 20+00

PI = 15+83.00  
 EL = 7.42'  
 VC = 300'  
 K = 274, DS > 70mph

C -L- STA. 15+67.94  
 SPANS: 3 @ 46' CORED SLAB  
 ELEV. = 7.02'  
 SKEW = 90°

\*WATER SURFACE IS AFFECTED BY WIND-BLOWN TIDES FROM THE LOWER PAMLICO RIVER AND PAMLICO SOUND



BM#15 ELEVATION = 3.64'  
 N 633264.9 E 2773199.8  
 -BL- STA. 11+16.82 - 105.7' RT. =  
 -L- STA. 17+32.40 - 122.76' RT.  
 CHISELED SQUARE IN SOUTHEAST CORNER OF SIDEWALK

AREA TO BE EXCAVATED  
 (190 CY) STR. PAY ITEM

SEE SHEET 4 FOR PLANS

03-FEB-2005 08:54  
 DWGardner rd-07oce34