w:\squadj\b3506\tbarbour\Microstation\B-3506_sd_GD_01.dgn
ddavenport

F.A. PROJECT NO.: BRZ-2832(5)

17+00 17+50 18+00 18+50

530 520 510 500 490

FILL FACE @ END BENT #1
STA. 17+15.00-L-
GRADE POINT EL. 528.471

BEGIN FRONT SLOPE
STA. 17+03.32-L-
GRADE POINT EL. 529.369

EXP.

1'-7" MIN. BERM
NORMAL TO CAP

FILL

EL. 522.0±

1'-6"

APPROX. EXISTING GROUND LINE

HP 12 X 53 STEEL PILES (TYP.)

1½:1 NORMAL TO CAP (TYP.)

EL. 509.0±

EL. 501.0±

EL. 500.0±

EXISTING STRUCTURE TO BE REMOVED (TYP.)

EL. 497.0±

SPAN A

END BENT #1

FIX. FIX.

HIGH WATER
EL. 508.0±
(1954)

EL. 496.017
(TOP OF FOOTINGS)

EL. 494.0±

1½:1 SLOPE

NORMAL WATER SURFACE
EL. 492.0±

WATER SURFACE
EL. 492.0± (8-7-02)

EL. 493.0±

EL. 491.0±

BENT #1

SPAN B

EL. 513.0±

UNCLASSIFIED STRUCTURE EXCAVATION

EL. 495.0±

EL. 500.0±

EL. 494.0±

FIX. FIX.

EL. 512.0±

EL. 497.540
(TOP OF FOOTING LT.)
EL.502.540
(TOP OF FOOTING RT.)

BENT #2

SPAN C

FILL FACE @ END BENT #2
STA. 18+80.00-L-
GRADE POINT EL. 521.317

BEGIN FRONT SLOPE
STA. 18+88.67-L-
GRADE POINT EL. 521.227

EXP.

1'-7" MIN. BERM
NORMAL TO CAP

FILL

1'-6"

EL. 513.0±

EL. 506.0±

END BENT #2

UNCLASSFIED STRUCTURE EXCAVATION

-7.8455% +14.9215%

PI = 20+05.00-L-
EL. = 505.70
VC = 600

GRADE DATA -L-

PI STA. = 17+92.13-L-
Δ = 29°40'44.7"(RT)
D = 7°38'22.0"
L = 388.50
T = 198.71
R = 750.00

HORIZONTAL CURVE DATA

SECTION ALONG ℄ -L-

(BENTS ON SECTION AT RIGHT ANGLES TO BENTS)

TEMPORARY ROCK CAUSEWAY

RICHLAND CREEK

1'-0" EARTH BERM NORMAL TO CAP EL. 519.978 (TYP.)

1'-0" EARTH BERM NORMAL TO CAP EL. 512.822 (TYP.)

CLASS II RIP RAP

TO SR 2845

STA. 17+15.00-L-
WORK POINT #1

STA. 16+88.40.-L-
BEGIN APPROACH SLAB

STA. 17+03.32-L-
BEGIN FRONT SLOPE

120°-00'-00" TAN. TO CURVE

126°-18'-09" TAN. TO CURVE

℄ -L-

STA. 17+80.00-L-
WORK POINT #2

STA. 17+97.50-L-
℄ BRIDGE

121°-20'-13" TAN. TO CURVE

120°-00'-00" TAN. TO CURVE

BENT #1
CONTROL LINE

STA. 18+45.00-L-
WORK POINT #3

116°-22'-17" TAN. TO CURVE

BENT #2
CONTROL LINE

STA. 18+80.00-L-
WORK POINT #4

STA. 18+88.67-L-
BEGIN FRONT SLOPE

STA. 19+09.76-L-
END APPROACH SLAB

TO NC 42

90°-00'-00" TAN. TO CURVE

113°-41'-51" TAN. TO CURVE

17'-6" ALONG ARC

47'-6" ALONG ARC

65'-0"(SPAN A) ALONG ARC

65'-0"(SPAN B) ALONG ARC

35'-0"(SPAN C) ALONG ARC

165'-0"(FILL FACE TO FILL FACE) ALONG ARC

CLASS II RIP RAP

PLAN

PILES NOT SHOWN IN PLAN VIEW

DRAWN BY : H. T. BARBOUR DATE : 5-6-04
CHECKED BY : D. A. DAVENPORT DATE : 5-04

Jesse McArthur Bailey 7/2/04

NORTH CAROLINA PROFESSIONAL SEAL 022506 ENGINEER JESSE McARTHUR BAILEY

NORTH CAROLINA PROFESSIONAL SEAL 10730 ENGINEER D. ANDRE DAVENPORT

PROJECT NO. B-3506

RANDOLPH COUNTY

STATION: 17+97.50-L-

SHEET 1 OF 4 REPLACES BRIDGE No. 226

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING FOR BRIDGE OVER RICHLAND CREEK ON SR 2832 BETWEEN SR 2845 AND NC 42

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			35