W:\sdquadz\b3887\mpoole\Microstation\B3887_sd_GD_01.dgn
jllambert

F.A. PROJECT : BRZ- 1520 (8)

14+80 14+90 15+00 15+10 15+20 15+30 15+40 15+50 15+60 15+70 15+80 15+90 16+00 16+10 16+20 16+30 16+40 16+50 16+60

30 20 10 0 -10

SPAN A SPAN B SPAN C

FIX EXP FIX EXP EXP FIX

FILL FACE @ EB #1
STA. 15+07.00 EXT. TANGENT
GRADE POINT EL. 17.372

BEGIN FRONT SLOPE
STA. 15+03.07 -L-
GRADE POINT EL. 17.388

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

16.0 ±

11.0 ±

1'-6" (TYP.)

2 : 1 SLOPE (TYP.)

EXISTING GROUND LINE

HP 12 X 53 STEEL PILES

HISTORICAL HIGH WATER ELEV. 18.7 ± (9/96)

NORMAL W.S. EL. 4.0 ±

7.0 ±

0.5 ±

-3.0 ±

0.0

6.0 ±

HP 14 X 73 STEEL PILES

END BENT #1

BENT #1

BENT #2

4'-3" TO LIMITS OF UNCLASSIFIED STRUCTURE EXCAVATION (TYP.)

FILL FACE @ EB #2
STA. 16+22.00 EXT. TANGENT
GRADE POINT EL. 16.912

BEGIN FRONT SLOPE
STA. 16+26.30 -L-
GRADE POINT EL. 16.895

16.0 ±

9.0 ±

HP 12 X 53 STEEL PILES

END BENT #2

EXISTING GROUND LINE

UNCLASSIFIED STRUCTURE EXCAVATION

-0.4000% +0.1200%

## GRADE DATA

PI = 18+50.00
EL = 16.00
VC = 50

## SECTION ALONG ℄ SURVEY -L-

(SECTION @ BENTS & END BENTS ARE TAKEN @ RIGHT ANGLES)

## HORIZONTAL CURVE DATA

PI = 16+54.89 -L-
△ = 21°59'00.7" (RT.)
D = 2°26'17.2"
L = 901.66'
T = 456.44'
R = 2350.00'

BENT #1 CONTROL LINE

BENT #2 CONTROL LINE

EXISTING STRUCTURE TO BE REMOVED (TYP.)

1'-7" RIP RAP BERM

EARTH BERM EL. 13.055

STA. 15+07.00 EXT. TANGENT
WORKPOINT #1

EXTENDED TANGENT

1'-0" MIN. EARTH BERM NORMAL TO CAP

STA. 14+80.15 EXT. TANGENT

TO SR 1522

STA. 14+80.13 -L-
BEGIN APPROACH SLAB

STA. 15+07.12 -L-
BEGIN BRIDGE

FILL FACE @ END BENT #1

CLASS II RIP RAP

EARTH BERM EL. 11.101

1'-7" RIP RAP BERM

STA. 15+42.00 EXT. TANGENT
WORKPOINT #2

℄ BRIDGE
STA. 15+64.50 -L- =
STA. 15+64.50 EXT. TANGENT

80°-00'-00" (TYP. TO EXTENDED TANGENT)

80°-00'-00" TAN. TO CURVE

STA. 15+92.00 EXT. TANGENT
WORKPOINT #3

SHAKEN CREEK

22'-6"

27'-6"

35'-0"

50'-0"

30'-0"

115'-0" (FILL FACE @ END BENT #1 TO FILL FACE @ END BENT #2)

EARTH BERM EL. 12.608

1'-7" RIP RAP BERM

STA. 16+22.00 EXT. TANGENT
WORK POINT #4

STA. 16+50.43 EXT. TANGENT

EXTENDED TANGENT

TO NC 50

℄ -L-

STA. 16+22.13 -L-
END BRIDGE

STA. 16+50.45 -L-
END APPROACH SLAB

CLASS II RIP RAP

FILL FACE @ END BENT #2

1'-0" MIN. EARTH BERM NORMAL TO CAP

EARTH BERM EL. 10.654

1'-7" RIP RAP BERM

## PLAN

(PILES NOT SHOWN FOR CLARITY)

DRAWN BY : M. POOLE DATE : 05/2004
CHECKED BY : J. R. DUGGINS DATE : 12/2004

NORTH CAROLINA PROFESSIONAL SEAL 13014 ENGINEER QUANG H. NGUYEN
Quang H. Nguy 2-7-05

NORTH CAROLINA PROFESSIONAL SEAL 15779 ENGINEER JOHN R. DUGGINS, JR.
02/01/05

PROJECT NO. B-3887
PENDER COUNTY
STATION: 15+64.50 -L-

SHEET 1 OF 3 REPLACES BRIDGE NO. 116

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# GENERAL DRAWING

FOR BRIDGE ON SR 1520
OVER SHAKEN CREEK
BETWEEN SR 1522 AND NC 50

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-1 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 23 |