5/28/99

SUNGATE DESIGN GROUP, P.A.
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
R-2417BB	24

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 24116 ENGINEER BOB A. MAY
9.13.04

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 09334 ENGINEER HENRY WELLS JR.
9/17/04

-Y3-

-Y3- STA.23+10.93 =
-LPC- STA.14+38.95

PI = 27+50.00
EL = 434.12'
VC = 180'
K = 231

PI = 29+50.00
EL = 432.72'
VC = 200'
K = 166

-Y3- STA.35+48.75 =
-LPB- STA.14+71.48

PI = 35+00.00
EL = 435.51'
VC = 180'
K = 244

(-)1.4802%
(-)0.7000%
(-)0.7000%
(+)0.5078%
(+)0.5078%
(+)1.2445%

-Y3- STA.29+46.21 =
-L- STA.565+49.40

-Y3- STA.35+73.75 =
-RPB- STA.24+77.12

DITCH LEGEND
LEFT DITCH
RIGHT DITCH

SEE SHEET 11 FOR PLAN VIEW

SEE SHEETS 13 & 14 FOR PLAN VIEW

BM #24 RR-SPIKE IN BASE OF POWER POLE -Y3- STA.37+41.99
EL.= 436.300 OFF = 55.04 RT.

PI = 37+00.00
EL = 438.00'
VC = 180'
K = 172

PI = 41+30.00
EL = 447.85'
VC = 360'
K = 259

PI = 45+15.00
EL = 451.32'
VC = 410'
K = 274

-Y3- STA.46+72.46 =
-Y4- STA.12+06.06

(+)2.2900%
(+)2.2900%
(+)0.9023%
(+)0.9023%
(-)0.5916%
(-)0.5916%
(+)1.6923%
(+)0.4000%
(+)2.6000%
(+)2.0000%
(+)4.4000%
(+)7.0000%
(+)1.0000%
(+)1.4000%
(+)0.5500%

-Y3- STA.36+35.00
BEGIN SPECIAL DITCH LT
EI = 430.20

PI =37+00.000
EI = 431.30

PI =38+00.000
EI = 433.70

PI =39+00.000
EI = 434.30

PI =39+50.000
EI = 435.30

PI =40+00.000
EI = 437.50

PI =40+50.000
EI = 441.00

PI =41+00.000
EI = 441.50

-Y3- STA.41+50.00
BEGIN SPECIAL DITCH LT
EI = 442.20

-Y3- STA.42+00.00
BEGIN SPECIAL DITCH RT
EI = 445.00

-Y3- STA.44+00.00
END SPECIAL DITCH RT
EI = 446.10

DITCH LEGEND
LEFT DITCH
RIGHT DITCH

05-JUN-2004 09:09
R-2417bb Alignment [Proj\r-2417bb.RDY_pf1.dgn
Bentley]