

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

-YILT-

PIs Sta 13+40.26	PI Sta 19+48.66
$\Theta_s = 2^\circ 48' 31.0"$	$\Delta = 29^\circ 44' 41.9" (LT)$
$L_s = 200.00'$	$D = 2^\circ 48' 31.0"$
$LT = 133.35'$	$L = 1,059.06'$
$ST = 66.68'$	$T = 541.75'$
	$R = 2,040.00'$
	$SE = 0.06$
	$DS = 55mph$

PRE VS. POST SITE 4:
(LOCATED IN EXISTING DRAW
TO RICHLAND CREEK; 42' PAST
END OF PLANSHEET)

PRE VS POST DISCHARGE FOR
OUTLET LOCATION 8+53 -YILT- LT
DISCHARGE INCREASE = 0.61%

LAKE JUNALUSKA
ASSEMBLY, INC
DB 34 PG 476

JUDITH D. ALLEN
DB 522 PG 1838

CHARLES L.
TERRELL, JR.
DB 474 PG 707

CLAUDIA BICKLEY
DAVIS
DB 476 PG 1960

**BEGIN CONSTRUCTION
BEGIN MILL/FILL AT
END OF EXISTING BRIDGE
(APPROX. 350' W. OF BEGIN
GRADE)**

TO US-276

CHARLES MADISON HOLLAND
DB 884 PG 2300
DB 594 PG 2329
DB 364 PG 264

**BEGIN GRADE
END MILL/FILL
-YILT- STA. 13+19.56**

ALAN CHARLES MARKOS
DB 909 PG 2275

KENNETH M.
LAMBERT
DB 465 PG 1327

RICHARD DEAN
TRADER
DB 476 PG 651

JOSEPH WILLIAM COLLINS
DB 466 PG 1775

**SOUTHERN
ASSEMBLY
DB 34 PG 476**

WARREN C.
BLACK
DB 466 PG 1490

KENNETH M. LAMBERT
DB 483 PG 2639

KENNETH M. LAMBERT
DB 483 PG 2639

-YILT- SC Sta. 14+06.91

PROPERTY OWNER
UNKNOWN
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-YILT- POT Sta. 10+00.00

-YILT- TS Sta. 12+06.91

-YIRT- POT Sta. 10+00.00

**BEGIN CONSTRUCTION
BEGIN MILL/FILL AT
END OF EXISTING BRIDGE
(APPROX. 330' W. OF BEGIN
GRADE)**

-YIRT-

PIs Sta 12+45.34	PI Sta 23+10.19
$\Theta_s = 1^\circ 44' 10.5"$	$\Delta = 33^\circ 39' 33.7" (LT)$
$L_s = 200.00'$	$D = 1^\circ 44' 10.4"$
$LT = 133.34'$	$L = 1,938.64'$
$ST = 66.67'$	$T = 998.19'$
	$R = 3,300.00'$
	$SE = 0.04$
	$DS = 55mph$

PRE VS POST SITE 7:
PRE VS POST DISCHARGE FOR
OUTLET LOCATION 14+64 -YIRT- RT
DISCHARGE INCREASE = -7.53%

SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
FOR -YIRT- PROFILE, SEE PROFILE SHEET 17
FOR -YILT- PROFILE, SEE PROFILE SHEET 17
SEE SHEET 2B-1 FOR INTERSECTION DETAIL

PLOT DRIVERS: NCDOT_color_eng_50.plt
USER: HBARE
FILE: NCDOT\NCDOT-B3186-T02.c. \6.0.CAD.BIM.6.2.Work.In.Progress\B-3186-B-5898\Roadway\Pro\B3186-B5898.RDY_PSH10.dgn
PENTABLE: NCDOT_pshp.plt
DATE: 3/16/2022
TIME: 2:04:34 PM