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PROJECT REFERENCE NO.	SHEET NO.
SS-4905BM	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
5/15/2015
NORTH CAROLINA PROFESSIONAL SEAL 034371 ENGINEER BRANDON W. JOHNSON
DocuSigned by: Brandon W. Johnson
6A29A2BE0C9845E...

HYDRAULICS ENGINEER
5/15/2015
NORTH CAROLINA PROFESSIONAL SEAL 20147 ENGINEER FRANK F. FLEMING
DocuSigned by: Frank F. Fleming
B1DD721AA9FA4A6...

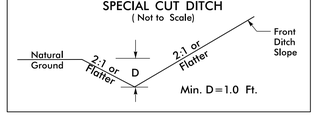
Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE No: P-0339
504 Meadowlands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

Prepared in the Office of: ECOLOGICAL ENGINEERING
NC FIRM LICENSE No: F-1148
1515 E Cary Parkway
Suite 101
Cary, NC 27518
(919) 557-0929

FOR DIMENSIONS, SUPER TRANSITIONS, STATIONS & OFFSET, SEE SHEET 2B

FOR -L- & -Y1- PROFILES SEE SHEET 5

DETAIL 1
SPECIAL CUT DITCH
(Not to Scale)



FROM STA 11+58 L TO STA 13+00 L LT
FROM STA 14+00 L TO STA 14+89 L LT

-Y1-
PI Sta 10+80.93
△ = 5° 08' 55.6" (LT)
D = 3° 10' 59.2"
L = 161.75'
T = 80.93'
R = 1,800.00'

PI Sta 13+32.61
△ = 8° 15' 33.8" (RT)
D = 28° 38' 52.4"
L = 28.83'
T = 14.44'
R = 200.00'

REVISIONS

PC Sta. 10+00.00
PT Sta. 11+61.75
BEGIN CONSTRUCTION
-Y1- POT Sta.12+40.00
-L- Sta.13+50.81
-Y1- Sta.13+60.39
PC Sta. 13+18.17
PT Sta. 13+47.00
END CONSTRUCTION
-L- POT Sta.14+75.00
POT Sta. 10+00.00
BEGIN CONSTRUCTION
-L- POT Sta.12+00.00
POT Sta. 17+00.03
END CONSTRUCTION
-Y1- POT Sta.15+00.00
POT Sta. 17+07.25

REESTABLISH EXISTING DITCH FOLLOWING PIPE INSTALLATION STA 10+00 TO 11+50 L LT

DO NOT DISTURB PLUGGED WATERLINE TEE OR BLOCKING

SPECIAL CUT DITCH SEE DETAIL #1

TREES TO BE REMOVED

CLASS B RIPRAP
EST 2 TONS
EST 7 SY GEOTEXTILE

15" RCP-IV

SPECIAL CUT DITCH SEE DETAIL #1

15" RCP-III
2GI-D
REMOVE
RETAIN
AUE
N 83° 38' 34.5" E
S 6° 49' 44.3" E
S 15° 05' 18.1" E
TO NC 157
TO BUS 501
SR 1407
CARVER STREET 20' BST
KENAN ROAD 28' BST
BROAD STREET 20' BST

DIXON FAMILY TRUST C/O GEORGE E DIXON DEED BOOK 5632 PAGE 288
G CURTIS & KIMBERLY W HENRY DEED BOOK 3861 PAGE 56
DIANA M LISLE DEED BOOK 6318 PAGE 435
RAUL MADONALDO & PATRICIA DE HERNANDEZ DEED BOOK 6479 PAGE 797
NELDA C SUGGS DEED BOOK 237 PAGE 162
JOSEPH A & MARVA B THORPE DEED BOOK 1297 PAGE 849
MARY CLARICE ZALDIVAR DEED BOOK 2605 PAGE 34
JOHN & LEOLY WALKER DEED BOOK 2984 PAGE 107
GABRIEL S & JUDITH P RUSSELL DEED BOOK 1058 PAGE 747
ELMER J & MARJORIE B RAY DEED BOOK 1144 PAGE 80
ROBERT J & LYND W CURTIN DEED BOOK 1380 PAGE 534
JAMES VENTURA REYES-CORDOBA & ANA ELIZABETH TORRES DE REYES DEED BOOK 5249 PAGE 996
MARGARET A PORELL DEED BOOK 6494 PAGE 493
LDW PROPERTIES DEED BOOK 4752 PAGE 297
KEAT B & JODEE M DEAN DEED BOOK 6442 PAGE 322
EDWARD F & PATRICIA D BACHMAN DEED BOOK 2767 PAGE 652
FRANCES BOWLES DEED BOOK 224 PAGE 126
RUBY DEVINE MASON DEED BOOK 4992 PAGE 950
ESTATE OF EDWIN DOUGLAS FOWLER FILE #13E347
MARK O GRUENER DEED BOOK 4904 PAGE 686
RODOLFO DECENA & ROSA EMELIA GUZMAN DEED BOOK 4492 PAGE 443
CITY OF DURHAM DEED BOOK 311 PAGE 171
MARY R NIFONG DEED BOOK 1987-E PAGE 1175
KAY M STEWART & DAVID G KRAVETZ DEED BOOK 1799 PAGE 501
ROBERT L & JOYCE P THORPE DEED BOOK 4012 PAGE 772
BARNETTE C & CYNTHIA P CRABTREE DEED BOOK 4530 PAGE 559
THOMAS M & ALMA T POOLE DEED BOOK 3907 PAGE 356
JOHN & FRANCOISE McCURLEY DEED BOOK 3928 PAGE 943
KELLY LYNN MIESZKALSKI DEED BOOK 4235 PAGE 228
EDWIN DOUGLAS FOWLER DEED BOOK 4268 PAGE 1
GREGORY E COLE DEED BOOK 2001-E PAGE 811
CARMELLA DENISE BLAKNEY DEED BOOK 3533 PAGE 341
VICTOR E & SUSAN P PICKARD DEED BOOK 4398 PAGE 604
CHESTER S DAVIS & SHERRON D SIZEMORE DEED BOOK 6188 PAGE 749
EUGENE V & LOIS R SANDY DEED BOOK 379 PAGE 160

40 20 0 40 80
PLAN

15-MAY-2015 09:21
RB TROY PSH 04.dgn
spencer_merritt