REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-3651	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 024436 ENGINEER JEFFREY W. MOORE
3-26-04

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 026480 ENGINEER LARRY D. ROBINSON, JR.
3-29-04

Kimley-Horn and Associates, Inc.
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.
CONST. REV.

-L-
PI Sta 11+95.12
Δ = 11° 23' 57.1" (RT)
D = 5° 00' 00.0"
L = 227.98'
T = 114.37'
R = 1145.92'
SE = 0.04
RO = 120'

TRAFFIC DIAGRAM
1999 ADT
2025 ADT
WINTERSET DR (-Y1-)
-100 / 100
-100 / -100
-100 / 100
DHV = 11%
DIR = 65%
TTST = 1%
DUAL = 2%
SR 3143 (-L-)
DHV = 11%
DIR = 65%
TTST = 1%
DUAL = 3%
1500 / 3700
1500 / 3800

MH-1 TOP=655.39 8" OUT=648.89
MH-2 TOP=643.74 8" IN=635.59 8" OUT=635.16
MH-3 TOP=626.11 8" IN=621.03 8" OUT=620.91
MH-4 TOP=627.97 8" IN=621.63 12" IN=620.89 12" OUT=620.86
MH-5 TOP=632.15 12" IN=620.60 12" OUT=620.56
MH-6 TOP=625.38 12" IN=619.02
MH-7 TOP=639.16 8" OUT=633.62
MH-8 TOP=641.12 8" IN=632.36 8" IN=632.31 8" OUT=632.29
CB-1 TOP=637.22 18" IN=634.10 18" OUT=633.16
CB-2 TOP=637.22 18" IN=629.01 18" OUT=628.91
CB-3 TOP=629.74 18" IN=625.98 18" OUT=625.73
CB-4 TOP=631.00 18" IN=627.52 18" OUT=627.40
JB/MH-5 TOP=635.71 18" IN=631.51 18" OUT=631.40
CB-6 TOP=637.48 18" IN=633.80 18" OUT=632.95
CB-7 TOP=637.77 18" IN=634.25 18" OUT=634.18

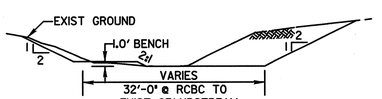
BY1-8
GPS B3649-1

-L- POT Sta 10+50.00
BEGIN STATE PROJECT B-3651
BEGIN CONSTRUCTION
BEGIN CURB & GUTTER
-L- POT Sta 10+00.00
BL-12
-L- PC Sta 10+80.75
-L- PT Sta 13+08.74
180' TAPER
-L- POT Sta 12+57.00
Δ = 79° 46' 34.2"
-L- POT Sta 14+13.62 =
-Y1- POT Sta 10+00.00
-Y1- POT Sta 11+10.00
BEGIN CONSTRUCTION
-Y1- SAG
STA = 11+93.33
EL = 644.93
-L- SAG
STA = 17+49.72
EL = 636.34
BL-13
BY1-21
-L- Sta 13+70.47
(57.24' LT)
BL-14
BY2-22
-L- Sta 20+41.53
(50.5' LT)
TI-560
-L- Sta 18+65.29 (193.39' LT)
TI-556
-L- Sta 17+02.26
(39.22' RT)
BEGIN CULVERT
-L- STA 16+85.36
CULVERT STATION
STA 17+06.68 -L-
SKEW = 130°
3 @ 10'X9' RCBC
END CULVERT
-L- STA 17+28.00
-Y2- POT Sta 19+99.42 =
-Y2- POT Sta 10+00.00
Δ = 99° 12' 33.1"
-Y2- POT Sta 11+20.00
END CONSTRUCTION
-Y2- POT Sta 11+74.50
-Y2- SAG
STA = 10+90.90
EL = 639.74
MATCH LINE -L- STA 21+00 (SHEET 5)

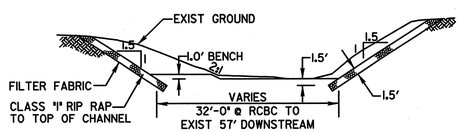
JAMES T. WILSON & WANDA B. WILSON D.B. 5053 PG. 1775 (1)
VILLAGES OF MILLSTREAM HOMEOWNERS ASSOCIATION, INC. D.B. 5056 PG. 161 (1)
JAMES R. JONES, JR. & DELORES M. JONES D.B. 4574 PG. 209
BENJAMIN J. WESTON & RUTH L. WESTON D.B. 3287 PG. 190 (3)
LANCE O. ROGERS & JENNIFER S. BLACKWOOD D.B. 5215 PG. 609
GUILFORD COUNTY & THE CITY OF GREENSBORO & THE PUBLIC P.B. 138 PG. 6 (2)
BILLY WAYNE SUMMERS & MARGARET ELAINE SUMMERS D.B. 3840 PG. 1014
GUILFORD COUNTY & THE CITY OF GREENSBORO & THE PUBLIC P.B. 140 PG. 77 (5)
DEDICATED TO GUILFORD COUNTY, CITY OF GREENSBORO & THE GENERAL PUBLIC AS: DRAINAGEWAY, OPEN SPACE AND UTILITY EASEMENT P.B. 147 PG. 100 (4)
VILLAGES OF MILLSTREAM HOA (6)
MANALO WILLIAMS D.B. 5496 PG. 782 P.B. 140 PG. 77 (7)
WILLIAM N. ROBINSON D.B. 5270 PG. 2171 P.B. 140 PG. 77 (8)
D.R. HORTON INC. D.B. 5270 PG. 1716 (9)
D.B. 483 PG. 755 P.B. 140 PG. 171 D.R. HORTON INC. (10)
D.B. 483 PG. 755 P.B. 140 PG. 171 D.R. HORTON INC. (12)
VILLAGES OF MILLSTREAM HOMEOWNERS ASSOCIATION, INC. (COMMON AREA) (3)

REMOVE EXISTING BRIDGE (STRUCTURE ITEM)
REMOVE EXISTING SYSTEM
RETAIN EXISTING DITCH
REMOVE & REPLACE EXIST CB WITH TBJB W/ MH COVER
CONSTRUCT 1' BENCH (SEE CHANNEL DETAIL)
CONSTRUCT 2' SILL
REMOVE EXISTING SYSTEM
RETAIN EXISTING R/W
GRADE TO DRAIN
OUTLET PROTECTION CLASS B RIP RAP EST 3 TONS EST 11 SY FF
CLASS I RIP RAP FOR BANK SLOPE EST 10 TONS EST 18 SY FF
CLASS I RIP RAP FOR BANK SLOPE EST 50 TONS EST 70 SY FF
CONSTRUCT 1' BENCH (SEE CHANNEL DETAIL)
OUTLET PROTECTION CL. B RIP RAP EST 3 TONS EST 11 SY FF
TIE CURB & SIDEWALK TO EXIST
TIE CURB & SIDEWALK TO EXISTING
REMOVE GRAD 350
24" CSP W/ ELBOWS
OBLITERATION OF EXISTING ASPHALT PAVEMENT

CHANNEL DETAIL



TYPICAL SECTION - INLET CHANNEL



TYPICAL SECTION - OUTLET CHANNEL

** VERTICAL CURVE AND MAXIMUM GRADE DESIGN EXCEPTION

SEE SHEET NO.6 FOR -L- PROFILE
SEE SHEET NO.7 FOR -Y1- AND -Y2- PROFILES
SEE SHEET NOS. C-1 THRU C-4 FOR CULVERT PLANS

NC GRID NAD 83

r:\projects\01036055\plan\365\s04.dsh
03/26/2004