PROJECT REFERENCE NO.	SHEET NO.
	EC-17/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

NOTES: *ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.*

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

50′ 0′ 50′
ENGLISH

-L-
PI Sta 34+10.96
△ = 23° 27′ 35.8″ (RT)
D = 4° 46′ 28.7″
L = 491.34′
T = 249.16′
R = 1,200.00′
R.O. = 320′
SE = 0.08

-DRIVE 1-
PI Sta 10+64.07
△ = 32° 12′ 21.2″ (LT)
D = 114° 35′ 29.6″
L = 28.10′
T = 14.43′
R = 50.00′

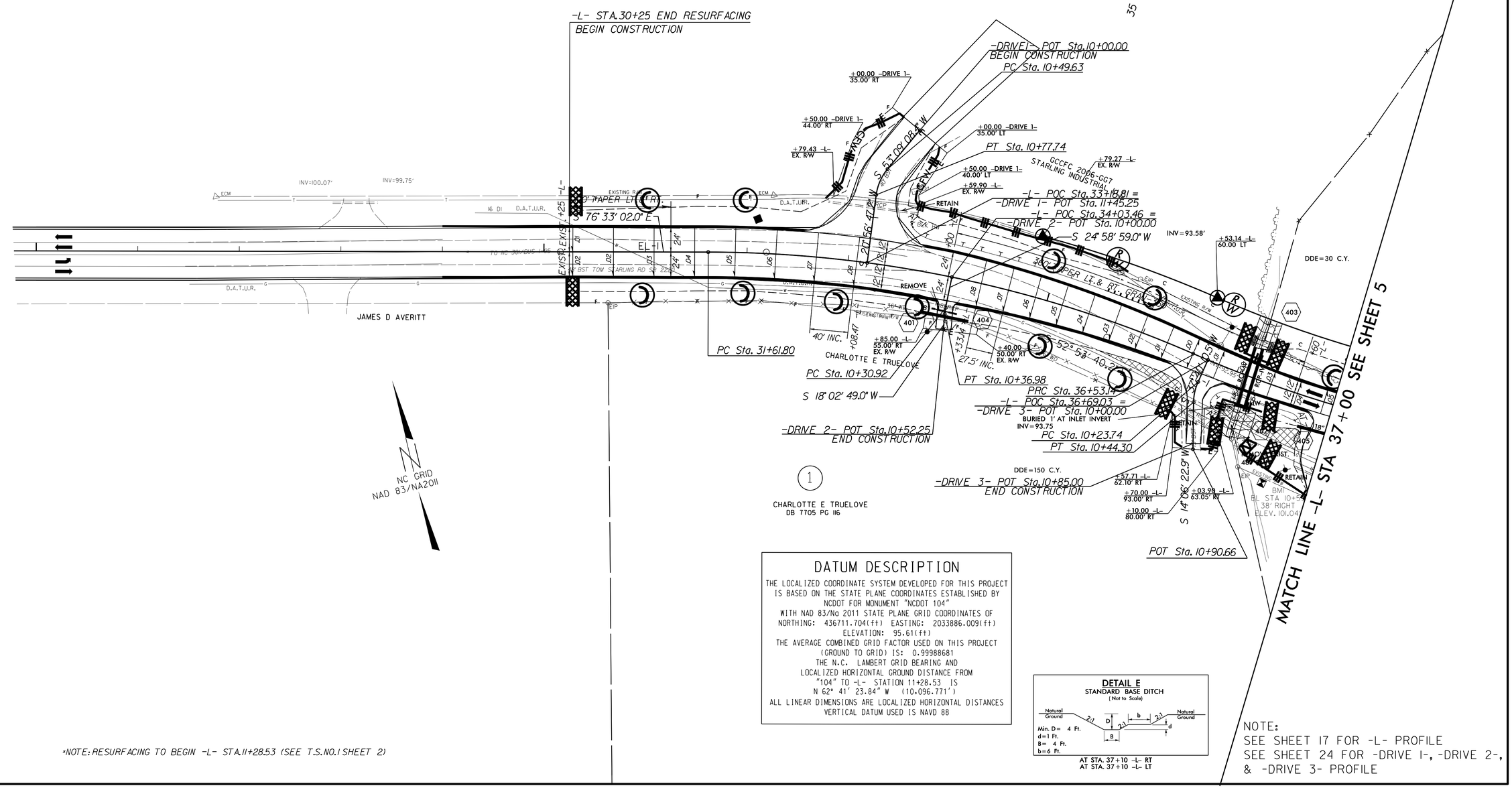
-DRIVE 2-
PI Sta 10+33.95
△ = 6° 56′ 10.0″ (LT)
D = 114° 35′ 29.6″
L = 6.05′
T = 3.03′
R = 50.00′

-DRIVE 3-
PI Sta 10+34.17
△ = 23° 33′ 47.7″ (LT)
D = 114° 35′ 29.6″
L = 20.56′
T = 10.43′
R = 50.00′

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 3:1, D, 3:1 or Flatter, Front Ditch Slope
Min. D = 1.0 Ft.
FROM STA. 35+50 TO STA. 37+00 -L- LT

DETAIL C
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 3:1, D, 3:1 or Flatter, Front Ditch Slope
Min. D = 2.0 Ft.
FROM STA. 37+20 TO STA. 39+00 -L- LT

DETAIL G
PIPE OUTLET CHANNEL
(Not to Scale)
Natural Ground, MIN. 3:1 TO 1:1 EXISTING BANK, MIN. 1:1 TO 1:5 EXISTING BANK, Natural Ground, d, CHANNEL BED (Variable)
Length = 10 Ft.
d = 3 Ft.
Est. = 11 Tons of Class I Rip-Rap, 18 S.Y. GEOTEXTILE
STA. 37+10 -L- LT
DDE = 20 C.Y.



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "NCDOT 104"
WITH NAD 83/No 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 436711.704(ft) EASTING: 2033886.009(ft)
ELEVATION: 95.61(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988681
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "104" TO -L- STATION 11+28.53 IS
N 62° 41′ 23.84″ W (10,096.771′)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

DETAIL E
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 2:1, D, 3:1, b, 3:1, d, Natural Ground, B
Min. D = 4 Ft.
d = 1 Ft.
B = 4 Ft.
b = 6 Ft.
AT STA. 37+10 -L- RT
AT STA. 37+10 -L- LT

NOTE:
SEE SHEET 17 FOR -L- PROFILE
SEE SHEET 24 FOR -DRIVE 1-, -DRIVE 2-, & -DRIVE 3- PROFILE

*NOTE: RESURFACING TO BEGIN -L- STA.11+28.53 (SEE T.S.NO.1 SHEET 2)

REVISIONS

8/17/99