Johnston County

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	EC-14/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
706 HILLSBOROUGH STREET
SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

NAD 83 /NA2011

-L- CURVE DATA

PI Sta 55+48.36	PI Sta 62+56.27
△ = 12° 51' 54.2" (RT)	△ = 5° 05' 30.7" (RT)
D = 4° 16' 32.9"	D = 0° 57' 58.3"
L = 300.88'	L = 527.00'
T = 151.08'	T = 263.67'
R = 1,340.00'	R = 5,930.00'
SE = .04	SE = NC
DS = 50 MPH	DS = 45 MPH

-Y6- CURVE DATA

PI Sta 13+89.30	PI Sta 16+25.51
△ = 8° 17' 57.9" (LT)	△ = 5° 38' 27.1" (LT)
D = 28° 38' 52.4"	D = 28° 38' 52.4"
L = 28.97'	L = 19.69'
T = 14.51'	T = 9.85'
R = 200.00'	R = 200.00'

DETAIL 1
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1 or Flatter, Fill Slope
Min. D= 1.0 Ft.

FROM -L- STA. 52+00 TO STA. 56+50 RT
FROM -L- STA. 53+50 TO STA. 57+50 LT
FROM -L- STA. 59+50 TO STA. 60+00 LT
FROM -L- STA. 62+00 TO STA. 63+15 LT

DETAIL 2
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1 or Flatter, B, Fill Slope
Min. D= 1.0 Ft.
B= 3.0 Ft.

FROM -L- STA. 62+50 TO STA. 66+00 RT

DETAIL 6
STANDARD 'V' DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground
Min. D= 1.0 Ft.

-L- STA. 64+50 RT

DETAIL 7
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground, B
Min. D= 1.5 Ft.
B= 2.0 Ft.

-L- STA. 55+35 RT
-L- STA. 64+50 RT

85 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
10 ft. weir
ID 7.1

1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir with
2.25 ft. weir height
ID 7.2
(See Earthen Dam
with Skimmer Detail)

YVONNE RENEE HUFF
ROGER RANSON HUFF, III

MICHAEL IMONETTI

ANDREW RICHARDSON
KIESHER RICHARDSON

C.R. HINTON
LUANN M. HINTON

ROBERT L. BOONE
CHRISTINE M. BOONE
DB 5141 PG 287

ANTHONY W. HINNANT

GARY W. RING
CHRISTY C. RING

BRETT M. BRISCOE
CARRIE L. BRISCOE

NEIL S. CRONIN

GURNEY F. MOZINGO, II
DAWN BELL

ARCHER LODGE VOLUNTEER
FIRE DEPARTMENT

ROBERT CRON
AND WIFE,
CHRISTINA CRON

JASON M. KEELER
DB 4808 PG 763

GRACE GRAY BALLARD
AND WIFE,
JASON M. BALLARD

-Y6- PC Sta. 13+74.79
-Y6- PT Sta. 14+03.76
S 37° 27' 56.8" E
BEGIN CONSTRUCTION
-Y6- STA. 14+50.00

-L- PT Sta. 56+98.17

-L- PC Sta. 59+92.60

-L- PC Sta. 53+97.29

N 65° 23' 57.5" E

END CONSTRUCTION
-Y6- STA. 16+00.00
-Y6- PC Sta. 16+15.66
-Y6- PT Sta. 16+35.35

-L- POT Sta. 52+92.65 =
-Y6- POT Sta. 15+27.55

S 43° 06' 23.8" E

-Y6- POT Sta. 20+44.96

-L- PT Sta. 65+19.60

S 28° 02' 58.8" E

MATCH LINE -L- STA. 52+00
SEE SHEET NO. 6

MATCH LINE -L- STA. 66+00
SEE SHEET NO. 8

MATCH LINE
SEE SHEET NO. 10

MATCH LINE
SEE SHEET NO. 10

CLASS 'B'
RIP RAP
3 TONS
GEOTEXTILE
10 SY

CLASS 'I'
RIP-RAP
EST. 11 TONS
GEOTEXTILE
EST. 22 SY

DO NOT DISTURB
WOOD COLUMN

SPECIAL LAT.
'V' DITCH
SEE DETAIL 1

2' STD. BASE DITCH
SEE DETAIL 7
L=10'
S=0.5%
EST. 5 CY DDE

STANDARD 'V'
DITCH
SEE DETAIL 6
L=50'
S=1.2%
EST. 10 CY DDE

SPECIAL LAT.
BASE DITCH
SEE DETAIL 2

2' STD. BASE DITCH
SEE DETAIL 7
L=190'
S=0.5%
EST. 70 CY DDE

REMOVE CONC. DITCH

REMOVE DI

REMOVE

18" RCP-IV

15" RCP-IV

30" RCP-IV

18" RCP-III

18" RCP

JB W/
SLAB LID

SEAL

PUE

CWD

PDE

TDE

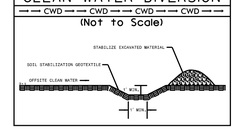
RETAIN

B

C

RW

CLEAN WATER DIVERSION
(Not to Scale)



NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.