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PROJECT REFERENCE NO.	SHEET NO.
U-5536	11

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL 4/19/2024 SEAL 033400 ENGINEER VICTOR L. HOKER

Digitally signed by VICTOR L. HOKER 2434555291F0480...

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL 4/19/2024 SEAL 33246 ENGINEER CARA M. JOHNS

Digitally signed by CARA M. JOHNS 2434555291F0480...

CDM Smith — CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-3228 NC COA No. P-1255

MI Engineering, PLLC 1011 Schaub Drive Suite 100 Raleigh, NC 27606 NC COA No. P-0871

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

5/28/99

PI = 38+45.00
EL = 965.46'
VC = 225'
K = 109
DS = 50 mph

END GRADE
-L- STA.39+65.26 =
-RABT2- STA.10+71.57 (18.00' RT.)
EL.967.58'

BEGIN GRADE
-L- STA.41+05.26 =
-RABT2- STA.12+34.93 (18.00' RT)
EL.965.52'

PI = 42+80.00
EL = 963.87'
VC = 280'
K = 68
DS = 40 mph

-L- STA.45+53.04 =
-Y6- STA.12+80.68

PI = 46+40.00
EL = 975.32'
VC = 440'
K = 54
DS = 40 mph

PI = 49+50.00
EL = 959.82'
VC = 180'
K = 88
DS = 45 mph

PROPOSED GRADE
EXISTING GROUND
(-)10.3000%
(+)11.7603%
(-)10.9428%
(+)3.1798%
(+)3.1798%
(-)15.0000%
(-)15.0000%
(-)12.9498%

BEGIN DITCH GRADE RT
-L- STA.41+34 EL = 952.88'

-L- STA 43+00 RT
EL = 958.90'

END DITCH GRADE RT
-L- STA.44+30 EL = 960.01'

BEGIN DITCH GRADE RT
-L- STA.48+13 EL = 958.50'

END DITCH GRADE RT
-L- STA.51+00 EL = 950.18'

(+)12.6250%
(+)37.3333%
(+)10.9000%
(+)17.0000%
(+)12.5000%
-L- STA 44+00 LT
EL = 958.05'
END DITCH GRADE LT
-L- STA.44+50 EL = 961.60'
(-)12.8696%
(-)19.8795%
(+)15.2239%
(+)19.4000%
(+)12.9600%

-L- STA 41+50 RT
EL = 953.30'
-L- STA 43+50 LT
EL = 951.90'
-L- STA 48+50 RT
EL = 948.70'
-L- STA 50+50 RT
EL = 948.70'

(+)17.4200%
(+)10.4000%
-L- STA 42+50 LT
EL = 941.50'
-L- STA 49+33 RT
EL = 940.50'
-L- STA 50+00 RT
EL = 944.00'

BEGIN DITCH GRADE LT
-L- STA.41+50 EL = 934.08'

— - - — LEFT DITCH
- - - - - - RIGHT DITCH

NOTE: SEE SHEET 6 AND 7 FOR -L- ALIGNMENT

PI = 54+35.00
EL = 945.51'
VC = 330'
K = 64
DS = 40 mph

END GRADE
-L- STA.57+97.45 =
-RABT4- STA.12+14.36 (18.00' RT)
EL.953.41'

END DITCH GRADE RT
-L- STA.56+50 EL = 945.00'

BEGIN GRADE
-L- STA.59+37.47 =
-RABT4- STA.10+49.66 (18.00' RT)
EL.950.23'

PI = 61+05.00
EL = 942.66'
VC = 315'
K = 49
DS = 35 mph

PI = 63+70.00
EL = 947.65'
VC = 180'
K = 124
DS = 55 mph

PI = 66+20.00
EL = 948.75'
VC = 120'
K = 75
DS = 45 mph

PROPOSED GRADE
EXISTING GROUND
(-)12.9498%
(+)2.1787%
(+)2.1787%
(+)10.8583%
(-)14.5200%
(+)1.8851%
(+)1.8851%
(+)10.4372%
(+)10.4372%

-L- STA.52+66.40 =
-Y7- STA.13+09.42

-L- STA 55+30 RT
EL = 943.97'

-L- STA.65+79.53 =
-Y1B- STA.17+06.03

BEGIN DITCH GRADE RT
-L- STA.54+34 EL = 938.96'

— - - — LEFT DITCH
- - - - - - RIGHT DITCH

NOTE: SEE SHEET 7 FOR -L- ALIGNMENT

SYSTIME = 5/28/2024 @ 08:00:00AM
USER: CDMSMITH
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