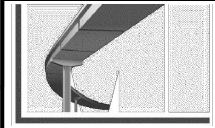


5/28/24



Johnson, Mirman, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC 27609
License No. C-3057



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

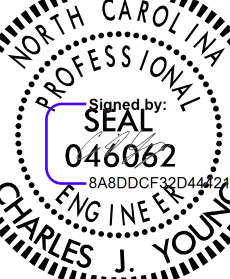
PROJECT REFERENCE NO.

1-5898

SHEET NO.

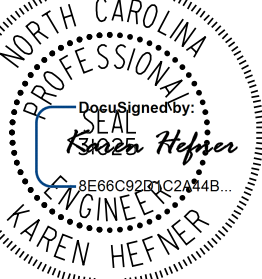
10

ROADWAY DESIGN
ENGINEER



10/20/2025

HYDRAULICS
ENGINEER



10/20/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

BM*6
N: 971190.38 E: 1722505.28
ELEV.= 696.33'
SCRIBED "X" IN CONCRETE
AROUND WATER VAULT
-Y- STA.103+57.63
o/s 29.26 RT

BEGIN GRADE
STA.106+00
EL = 693.24

PI = 107+00.00
K = 84
EL = 691.13'
VC = 150'
DS = 40

-Y- NC 135/ US 311 POT STA 110+50.33
-Y2- SR 2177 (DAN VALLEY ROAD) POT STA 10+00.00

PI = 111+75.00
K = 67
EL = 672.63'
VC = 520'
DS = 40

SEE SHEETS 4&5 FOR -Y- PLAN

-Y-

PIPE HYDRAULIC DATA
48" RCP -Y- STA.123+92

DRAINAGE AREA	= 58	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 71	CFS
DESIGN HW ELEVATION	= 679.92	FT
100 YEAR DISCHARGE	= 76	CFS
100 YEAR HW ELEVATION	= 680.04	FT
OVERTOPPING FREQUENCY	= 10	YRS
OVERTOPPING DISCHARGE	= 70	CFS
OVERTOPPING ELEVATION	= 679.88	FT

BM*3
N: 972278.16 E: 1724434.89
ELEV.= 691.37'
SCRIBED "X" IN TOP
BACK CURB
-L- STA.125+20.51
o/s 46.84 LT

PI = 119+75.00
K = 46
EL = 703.50'
VC = 350'
DS = 40

HIGH POINT
STA.119+77.69

-Y- NC 135/ US 311 POT STA 122+92.93
-RP Q- POT STA 19+56.32
-RP D- POT STA 21+45.08

PI = 126+63.00
K = 258
EL = 677.76'
VC = 680'
DS = 50

BEG SPEC LAT V DITCH
STA.121+00 -Y- LT EL=677.00

-Y- STA.121+86
EL = 676.18

END SPEC LAT V DITCH
STA.122+28 -Y- LT EL=677.00

BEG SPEC LAT V DITCH
STA.124+50 -Y- LT EL=678.43

END SPEC LAT V DITCH
STA.126+00 -Y- LT EL=678.00

SEE SHEETS 5&6 FOR -Y- PLAN

10/7/2025 12:32:07 PM
P:\2025\1-5898\Drawings\10.dgn
"Isometric" plot