Docusign Envelope ID: C145B2D7-FB81-8A3C-82DF-C86CF685F891

PROJECT REFERENCE NO.	SHEET NO.
BP14-R014	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040925 JEAN E. MELVILLE
Signed
7/21/2026

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043232 IDYA MCMANUS
Docusigned by: Idya Mcmanus
7/21/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

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434 FAYETTEVILLE STREET
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RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

NAD 83/2011

8/17/99

08/15/2025 PARCELS 2 & 4 - CHANGED PARCEL W/2 OWNER NAME AND REMOVED CLAIM TO PARCEL NO.4/TEMPORARY CONSTRUCTION EASEMENT AND RIGHT OF WAY.

BM-2 ELEV. = 1973.03
-BL- 5+38.00 15 RIGHT
BENCH TIE SPIKE IN 12" POPLAR

BEGIN CONSTRUCTION
-L- POT STA. 8+76.19

BEGIN TIP PROJECT BP14-R014
-L- POT STA. 10+00.00

BEGIN APPROACH SLAB
-L- POC STA. 11+88.81

BEGIN BRIDGE
-L- POT STA. 11+99.70

END APPROACH SLAB
-L- POT STA. 13+02.82

END BRIDGE
-L- POT STA. 12+91.95

1 GRADY T. JONES LIFE ESTATE
DB 344 PG 370
DB 150 PG 151

ALAN ROCKY SAMPSON
LISA SMITH BUCHANAN
DB 401PG 340

DENNIS L. & REBECCA L. TAYLOR
DB 318 PG 699

DENNIS SMITH
DB 215 PG 356

JAMES & CAROLYN CLOER
DB 138 PG 38

2 TINA BERNICE JONES SITTON & KENNETH SITTON, JR.
DB 150 PG 147

3 ROY ELMER & LAUREN WILLIAMSON
DB 194 PG 585

BEGIN VALLEY GUTTER
-L- STA. 10+25.00

CONCRETE DITCH BEHIND RETAINING WALL #1
SEE DETAIL D

RETAINING WALL #1

RETAINING WALL #2

RETAINING WALL #3

END VALLEY GUTTER
BEGIN NON-STANDARD VALLEY GUTTER
-L- STA. 11+57.37

END NON-STANDARD VALLEY GUTTER
-DR1- STA. 10+60.00

INVERT GUTTER BY STA. 11+47
FORM APRON AROUND 2GI*
SEE TYPICAL SECTION DETAIL C

PROP ROCK PLATING

BEGIN CONSTRUCTION
-DR1- POT STA. 10+14.56

TIE TO EXIST. GUARDRAIL
-L- STA. 14+61.32
41.92' LT

DO NOT DISTURB WELL

DO NOT DISTURB WATERLINE

RIP RAP AT EMBANKMENT
12+15 -L- LT
SEE DETAIL C

RIP RAP AT EMBANKMENT
10+60 -DR1- RT
SEE DETAIL C
RIP RAP AT EMBANKMENT
10+40 -DR1- RT
SEE DETAIL C

SEE ANCHOR DETAIL FOR PAVED SHOULDER AND SBG

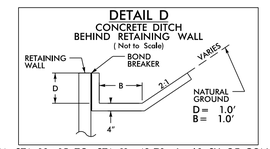
SPECIAL CUT BASE DITCH
10+20 TO 10+40 -DR1- RT
LINE w/RIPRAP
SEE DETAIL B

END CONSTRUCTION
END TIP PROJECT BP14-R014
-L- POT STA. 14+73.49

BM-1 ELEVATION = 1967.62
BY 8+05.00 154 RIGHT
BE REBAR 2.5' FROM EOP ON CLOER RD.

*NOTES:
- INLET 0404 IS LOCATED IN AN ARTIFICIAL LOW POINT CREATED IN THE SBG
- VALLEY GUTTER SHALL BE INVERTED TO RETAIN WATER FROM -L- STA. 11+47 AROUND TO -DR1- STA. 10+65; TAPERS AND TRANSITIONS SHALL BE AS NOTED ON THE TYPICAL SECTION DETAIL C

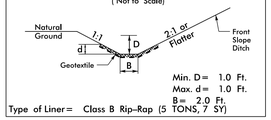
DETAIL D
CONCRETE DITCH BEHIND RETAINING WALL
(Not to Scale)



D = 1.0'
B = 1.0'

FROM STA. 10+15 TO STA. 11+42.70 -L- 60 SY OF CONCRETE
FROM STA. 13+80 TO STA. 14+32 -L- 24 SY OF CONCRETE

DETAIL B
SPECIAL CUT BASE DITCH
(Not to Scale)

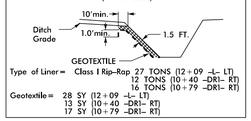


Min. D = 1.0 Ft.
Max. d = 1.0 Ft.
B = 2.0 Ft.

Type of Liner = Class B Rip-Rap (5 TONS, 7 SY)

FROM STA. 10+20 TO STA. 10+40 -DR1- LT

DETAIL C
RIP RAP AT EMBANKMENT
(Not to Scale)



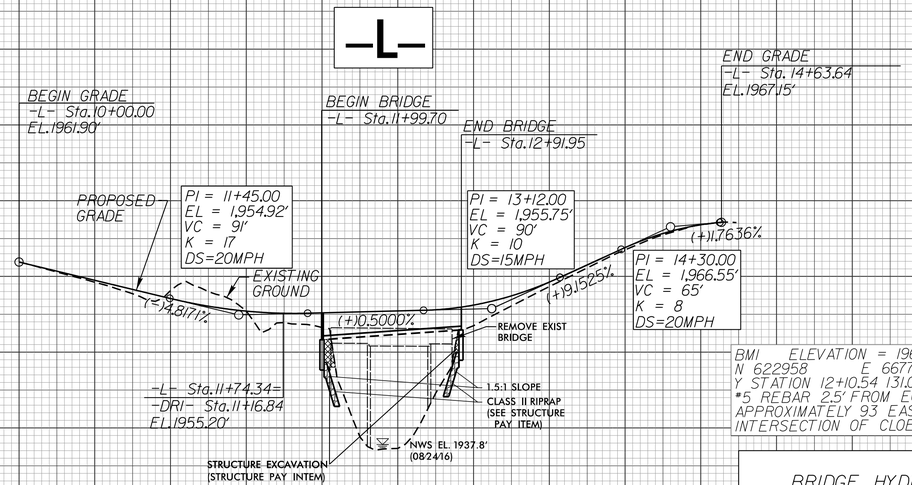
GEOTEXTILE
Type of Liner = Class I Rip-Rap 27 TONS (12+09 -L- LT)
12 TONS (10+40 -DR1- RT)
16 TONS (10+79 -DR1- RT)
Geotextile = 28 SY (12+09 -L- LT)
13 SY (10+40 -DR1- RT)
17 SY (10+79 -DR1- RT)

STA. 12+09 -L- LT
STA. 10+40 -DR1- RT
STA. 10+79 -DR1- RT

SEE SHEET 2B-1 FOR RIGHT OF WAY AND EASEMENTS STATION OFFSET.
SEE SHEET 2B-2, 2B-3 & 2B-4 FOR DETAILS OF RETAINING WALL ENVELOPES NO. 1, 2 & 3

NOTE: REFERENCE SHEET 2B-1 FOR HORIZONTAL ALIGNMENT ALL RADII ARE 20' UNLESS NOTED.

-L-

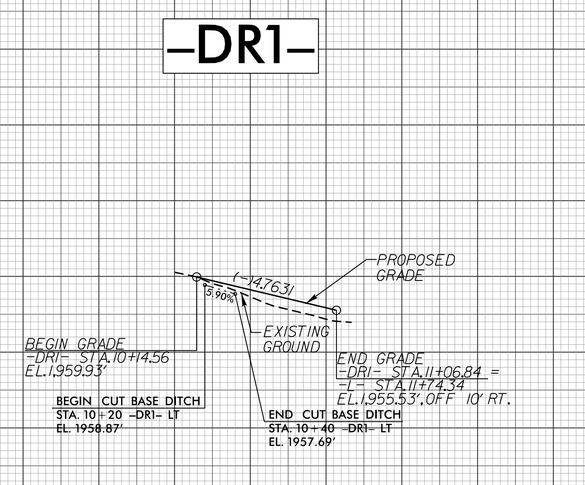


BMI ELEVATION = 1967.62
N 622958 E 667749
Y STATION 12+10.54 131.07 RIGHT
#5 REBAR 2.5' FROM EOP ON CLOER RD., APPROXIMATELY 93 EAST OF 15" CMP AT INTERSECTION OF CLOER RD & ALARKA RD.

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	4100 CFS
DESIGN FREQUENCY	=	25 YRS
DESIGN HW ELEVATION	=	1947.7 FT
BASE DISCHARGE	=	5670 CFS
BASE FREQUENCY	=	100 YRS
BASE HW ELEVATION	=	1949.7 FT
OVERTOPPING DISCHARGE	=	10000 CFS
OVERTOPPING FREQUENCY	=	>500 YRS
OVERTOPPING ELEVATION	=	1955.63 FT

-DR1-



LEFT DITCH -·-·-·-·-

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7/21/2026