Docusign Envelope ID: 6EB0A136-41FC-8933-808B-013E80A18744

11+50 12+00 12+50 13+00 13+50

1970 1960 1950 1940 1930

(-)4.8171% (+)0.5000%

STA. = 11+45.00 -L-
EL. = 1954.92
VC = 91'

GRADE DATA -L-

(+)0.5000% (+)9.1525%

STA. = 13+12.00 -L-
EL. = 1955.75
VC = 90'

GRADE DATA -L-

SPAN A

EL. 1958±
1955±
1952±
EL. 1954±
FIX
FILL FACE @ END BENT 1
STA. 11+99.70 -L-
G.P. EL. 1955.19
BEGIN FRONT SLOPE
STA. 11+90.15 -L-
EL. 1955.14
LOW CHORD
EL. 1951.46 (LEFT EDGE)
EL. 1953±
EL. 1946±
EL. 1939±
EXCAVATE TO
EL. 1948.0 GRADE
TO DRAIN
EXISTING
STRUCTURE
(TYP.)
REMOVE EXISTING PILE
CUT OFF 1FT BELOW
GROUND LEVEL
Q100
EL. 1949.7
25YR WSEL
EL. 1947.7
NWS
EL. 1937.8
(08/24/16)
EL. 1939±
EL. 1937±
1½:1 SLOPE
(TYP.)
CLASS II RIP
RAP (2'-0" THICK)
EXCAVATE TO
EL. 1947.5
GRADE TO DRAIN
1'-6" TO UNCLASSIFIED
STRUCTURE EXCAVATION
(TYP.)
FILL FACE @ END BENT 2
STA. 12+91.95 -L-
G.P. EL. 1955.95
EL. 1953±
FIX
BEGIN FRONT SLOPE
STA. 13+01.33 -L-
EL. 1956.26
LOW CHORD
EL. 1952.14 (LEFT EDGE)
1'-0" MIN. (TYP.)
9.625" Ø MICROPILES (TYP.)
1'-0" MIN.
EARTH BERM (TYP.)
APPROXIMATE
GROUND LINE
EL. 1959±
UNCLASSIFIED STRUCTURE
EXCAVATION

END BENT 1

SECTION ALONG -L-

END BENT 2

HYDRAULIC DATA

DESIGN DISCHARGE	= 4100 CFS
FREQUENCY OF DESIGN FLOOD	= 25 YEARS
DESIGN HIGH WATER ELEVATION	= 1947.7
DRAINAGE AREA	= 25 SQ.MI.
BASE DISCHARGE (Q100)	= 5670 CFS
BASE HIGH WATER ELEVATION	= 1949.7

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 10,000 CFS
FREQUENCY OF OVERTOPPING FLOOD	= >500 YEARS
OVERTOPPING FLOOD ELEVATION	= 1955.63

OVERTOPPING WOULD OCCUR
@ STA. 11+89.00-L-

N

NO OUTLET

W.P. #1
FILL FACE @ END BENT 1
STA. 11+99.70-L-

EARTH BERM
EL. 1946.35

EXISTING
STRUCTURE

PT STA. 11+95.75 -L-
BEGIN FRONT SLOPE
STA. 11+90.15 -L-
BEGIN APPROACH SLAB
STA. 11+88.81 -L-

EXTENDED
TANGENT

3 9/16"

-DR1- POT STA. 11+16.84

6'-11 3/16"

-DR1-

ALARKA
CREEK

BRIDGE I.D.
STA. 12+45.82-L-

-L- SR 1185
(LEE COCHRAN RD.)

1'-7" MIN. RIP
RAP BERM (TYP.)

1'-0" MIN.
EARTH BERM (TYP.)

EARTH BERM
EL. 1946.97

W.P. #2
FILL FACE @ END BENT 2
STA. 12+91.95-L-

BEGIN FRONT SLOPE
STA. 13+01.33 -L-

END APPROACH SLAB
STA. 13+02.82-L-

TEMPORARY
SHORING
(TYP.)

STAGE II

STAGE I

TO SR 1140
(ALARKA RD.)

90°-00'-00"

90°-00'-00"
(TYP.)

EARTH BERM
EL. 1947.43

EARTH BERM
EL. 1948.05

CLASS II RIP RAP
(2'-0" THICK)(TYP.)

46'-1½" 46'-1½"

TOTAL BRIDGE LENGTH = 92'-3"
(FILL FACE @ END BENT 1 TO FILL FACE @ END BENT 2)

PLAN

(FOR CLARITY, PILES ARE NOT SHOWN IN PLAN VIEW)

HORIZONTAL CURVE DATA

PI STA. 11+50.55 -L-
Δ = 80°-21'-07.9"(LT)
D= 70°-44'-07.9"
L= 113.60'
T = 68.39'
R = 81.00'

I HEREBY CERTIFY THESE PLANS
ARE THE AS-BUILT PLANS

PROJECT NO. BP14-R014

SWAIN COUNTY

STATION: 12+45.82 -L-

SHEET 1 OF 4 REPLACES BRIDGE NO. 860152

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER ALARKA CREEK
ON SR 1185 (LEE COCHRAN RD)
BETWEEN DEAD END & SR 1140

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			25

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 044167 7/20/2026 ENGINEER ELIZABETH F. LAWES

DocuSigned by: Elizabeth F. Lawes
935E84223CD547C...

WSP USA Inc.
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040

LICENSE NO. F-0165

DESIGNED BY:	E. LAWES	DATE :	OCT 2024
DRAWN BY:	E. LAWES	DATE :	APR 2026
CHECKED BY:	P. GALLAGHER	DATE :	APR 2026
DESIGN ENGINEER OF RECORD:	E. LAWES	DATE :	APR 2026

7/17/2026
401_001_BP14_R014_SMU_GD01_01.dgn