PROJECT REFERENCE NO.	SHEET NO.
I-5987B	EC-19/CONST.18
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
MATTHEW HARVEY, PE
CERTIFICATION NUMBER: 3487
ISSUED: MARCH 15, 2022

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:
CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES IN ACCORDANCE WITH THE "SOIL STABILIZATION TIMEFRAMES", SEE EC–3.

NOTE:
PRIOR TO INSTALLATION OF EROSION CONTROL DEVICES, CONTRACTOR SHALL VERIFY BOUNDARIES OF JURISDICTIONAL AREAS AND DELINEATE WITH SAFETY FENCE OR FLAGGING.

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18

-L-
A.685+01.00
2(° 44' 41.8" (RT)
1° 16' 23.7"
1,707.84'
864.32'
4,500.00'
0.05
250.00'

PIs Sta 694+27.86
Θs = 1° 35' 29.6"
Ls = 250.00'
LT = 166.67'
ST = 83.34'

Sta.676+36.68

NAD 83/2011

MATCHLINE -L- STA. 674+00.00 SEE SHEET NO. 17

MATCHLINE -L- STA. 686+00.00 SEE SHEET NO. 19

CLASS II RIPRAP (2 FT. THICK) UP TO ELEV. 157.8' CL II RIP RAP EST. 158 TNS

25' LF INLET BANK STABILIZATION W/CLASS II RIP RAP SEE DETAIL 1-1

Q10=0.4 cfs V10=0.9 fps

50' TYP.

BEG 47" WW FENCE TIE TO EXIST. RIP RAP -L- +83.00 EST. 1 TON EST. 5 SY GT

END 47" WW FENCE TIE TO PROP. WW -L- +83.23

BEG 47" WW FENCE TIE TO PROP. WW -L- +80.19

END 47" WW FENCE TIE TO EXIST. FENCE -L- +80.00

END SBG STA +25

BEG SBG STA +31

BEG SBG STA +10

BEG SBG STA +94

300' TAPER

780' FULL LANE

EXISTING R/W

TOE PROTECTION w/CL B RIPRAP SEE DETAIL AC

GREU TL-3

CAT-1

TB 2GI

15" RCP-IV

2 @ 8' X 8' RCBC W/BEVELED HEADWALL BURIED ONE FOOT

24" RCP-IV

18" RCP-IV

REMOVE

TRENCHLESS INSTALLATION 24" WELDED STEEL

FLOWABLE FILL

CL. B RIP RAP EST. 1 TON EST. 5 SY GT

BEG 47" WW FENCE TIE TO EXIST. -L- +15.00

END 47" WW FENCE TIE TO PROP. WW -L- +47.57

Q10=1.5 cfs V10=1.28 fps

32' LF OUTLET CHANNEL IMPROVEMENTS W/CLASS II RIP RAP BANKS ONLY SEE DETAIL 1-2

180 x 70 x 3
3 inch Skimmer
with 2.875 inch
Orifice Diameter
48 ft. weir
ID 18.1

4' LATERAL BASE DITCH SEE DETAIL AD DDE=2,450 CY

CL. B RIP RAP EST. 5 TON EST. 14 SY GT

BEG. 47" WW FENCE TIE TO EXIST. -L- +35.00

4' SPECIAL CUT BASE DITCH SEE DETAIL AE

60' RESERVED EASEMENT

After a meeting with the Division and NCDOT Hydraulics it was determined that the ditch from 677+25 to 685+00 Rt. should be set on a zero percent grade. This will allow the underdain to outlet in the ditch and prevent the wetland at 677+25 from being underput.

-Y1BRPC- TS Sta. 10+00.00
-L- POC Sta. 685+00.00
OFF= RT 61'
△ = 2° 18' 00"

JOHN C. MCLEOD & SHORE B. MCLEOD DB 1984 PG 373 (227)

KEITH-PERRY LLC DB 1056 PG 535 PB 31 PG 137 (222)

ABUNDANT LIFE CHURCH DB 1807 PG 396 PB 27 PG 23 (223) NO CLAIM

MARY H. BUTLER & SHORE CARY DB 921 PG 780 PB 27 PG 23 (224)

HOWARD W. JOHNSON JR DB 661 PG 713 PB 27 PG 23 (226)

REVISIONS

5/14/99

3/14/2022
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Matt Macdonald