09/08/99

TIP PROJECT: R-2307A

CONTRACT:

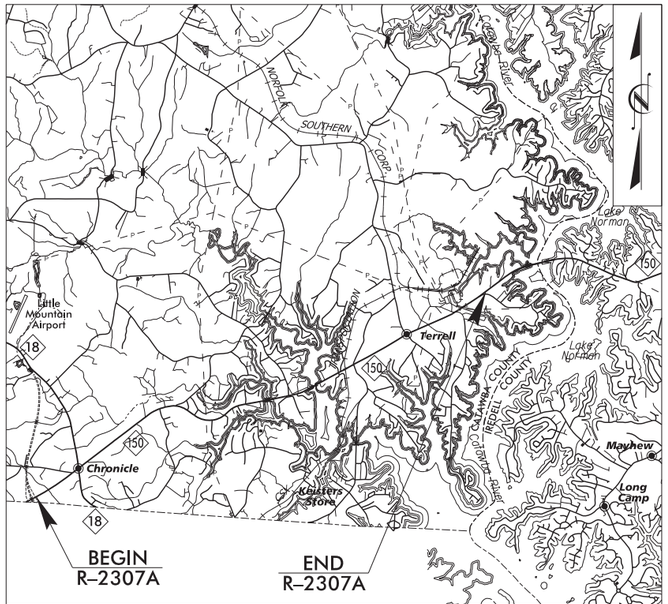
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2307A	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
37944.1.1	STP-150(19)	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CATAWBA & IREDELL

LOCATION: PROPOSED NC 150 WIDENING FROM NC 16 BYPASS TO GREENWOOD ROAD



VICINITY MAP

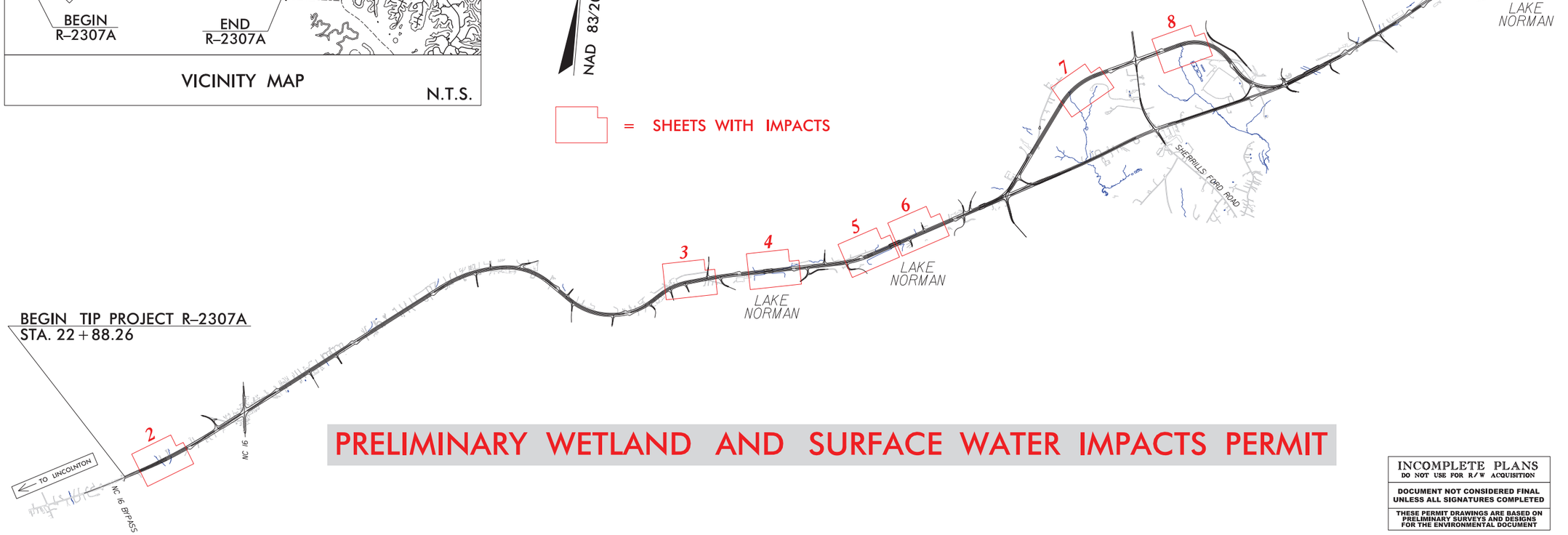
N.T.S.

NAD 83/2007

= SHEETS WITH IMPACTS

END TIP PROJECT R-2307A
STA. 425+00.00

BEGIN TIP PROJECT R-2307A
STA. 22+88.26



PRELIMINARY WETLAND AND SURFACE WATER IMPACTS PERMIT

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THESE PERMIT DRAWINGS ARE BASED ON PRELIMINARY SURVEYS AND DESIGNS FOR THE ENVIRONMENTAL DOCUMENT

GRAPHIC SCALES

50 0 100
PLANS

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT R-2307A = 7.616 MILES

Prepared in the Office of:

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

2018 STANDARD SPECIFICATIONS

PERMIT DRAWING DATE:
NOVEMBER 15, 2018

DEAN SARVIS, P.E.
PROJECT ENGINEER

PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

SIGNATURE: *P.E.*

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

11/15/2018
U:\Roadway\Proj\ALT 1Best Fit\Permit Drawings\ALT1_Rdy_Permits_tsh.dgn
cmozingo

5/14/99

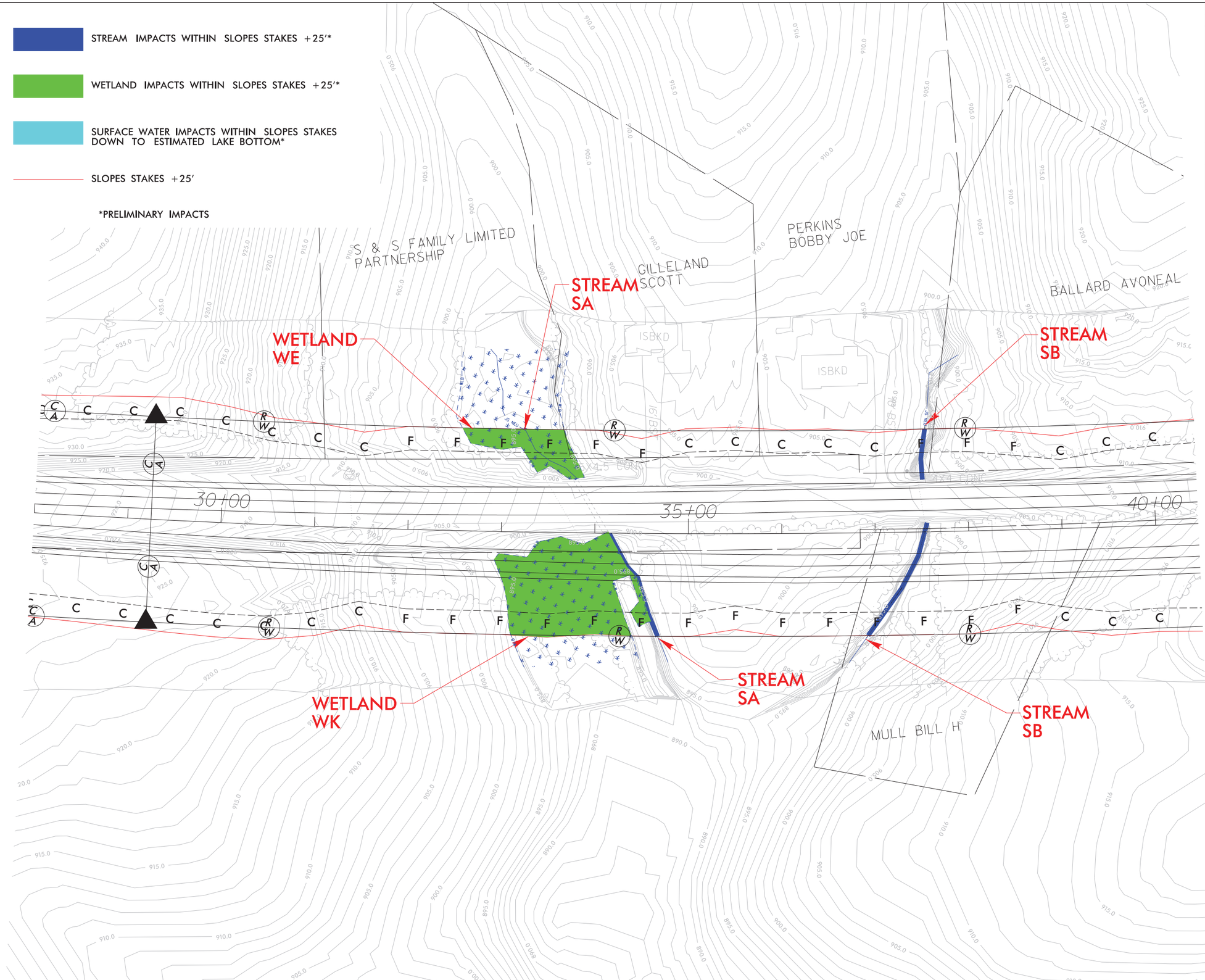
STREAM IMPACTS WITHIN SLOPES STAKES +25'*

WETLAND IMPACTS WITHIN SLOPES STAKES +25'*

SURFACE WATER IMPACTS WITHIN SLOPES STAKES DOWN TO ESTIMATED LAKE BOTTOM*

SLOPES STAKES +25'

*PRELIMINARY IMPACTS



PROJECT REFERENCE NO.	SHEET NO.
R-2307	2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
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50 0 100
GRAPHIC SCALE

NOVEMBER 15, 2018

NAD 83/2007

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cmeazinoo
Proj\ALT 1 Best Fit\Permit Drawings\ALT1_Rdy_Permits_psh02.dgn

5/14/99

STREAM IMPACTS WITHIN SLOPES STAKES +25'*

WETLAND IMPACTS WITHIN SLOPES STAKES +25'*

SURFACE WATER IMPACTS WITHIN SLOPES STAKES DOWN TO ESTIMATED LAKE BOTTOM*

SLOPES STAKES +25'

*PRELIMINARY IMPACTS

PROJECT REFERENCE NO.	SHEET NO.
R-2307	3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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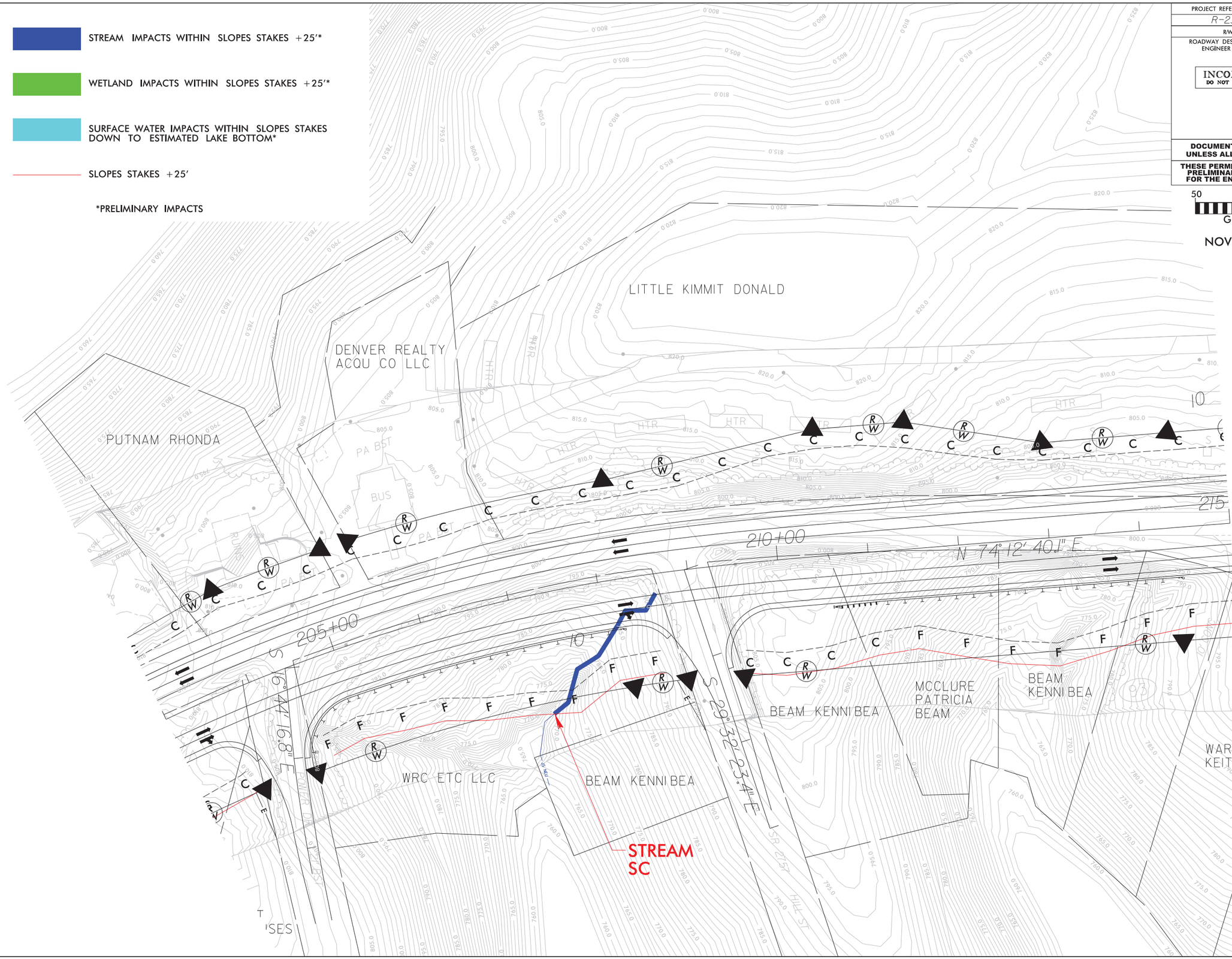
GRAPHIC SCALE

NOVEMBER 15, 2018

NAD 83/2007



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cmazinoo

5/14/99

STREAM IMPACTS WITHIN SLOPES STAKES +25'*

WETLAND IMPACTS WITHIN SLOPES STAKES +25'*

SURFACE WATER IMPACTS WITHIN SLOPES STAKES DOWN TO ESTIMATED LAKE BOTTOM*

SLOPES STAKES +25'

*PRELIMINARY IMPACTS

PROJECT REFERENCE NO.	SHEET NO.
R-2307	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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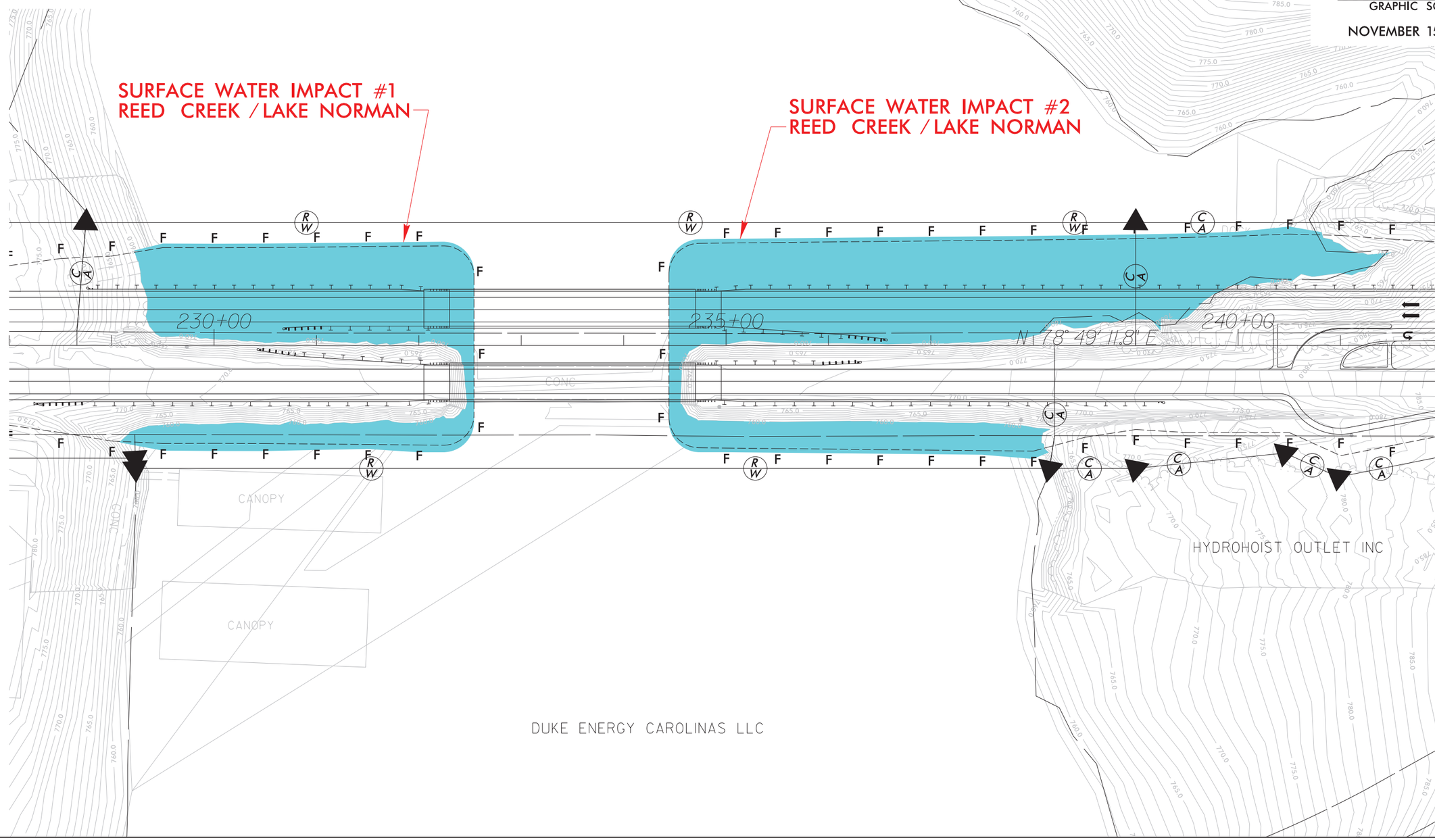
GRAPHIC SCALE

NOVEMBER 15, 2018



11/15/2018
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5/14/99

STREAM IMPACTS WITHIN SLOPES STAKES +25'*

WETLAND IMPACTS WITHIN SLOPES STAKES +25'*

SURFACE WATER IMPACTS WITHIN SLOPES STAKES DOWN TO ESTIMATED LAKE BOTTOM*

SLOPES STAKES +25'

*PRELIMINARY IMPACTS

PROJECT REFERENCE NO.	SHEET NO.
R-2307	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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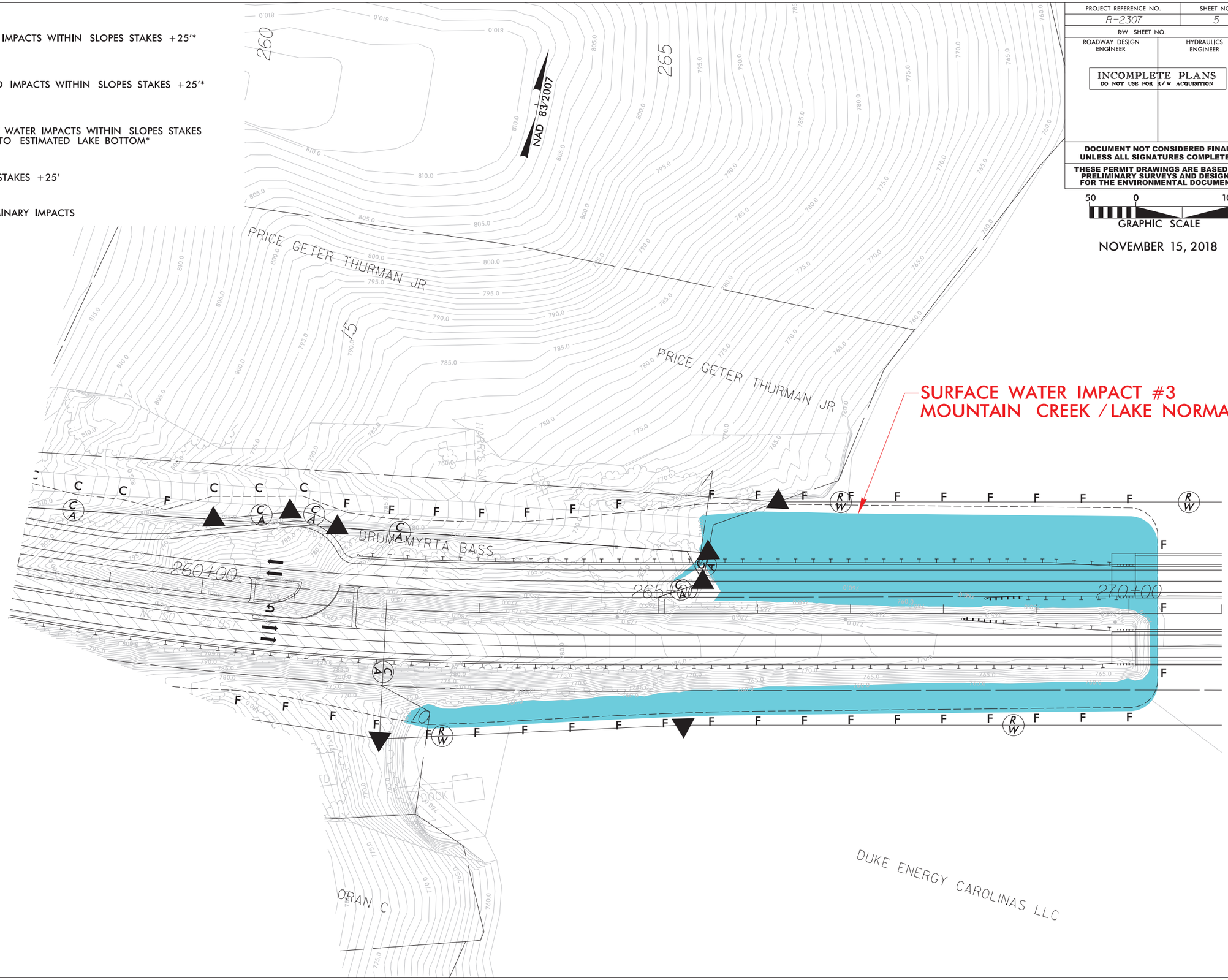
GRAPHIC SCALE

NOVEMBER 15, 2018



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5/14/99

STREAM IMPACTS WITHIN SLOPES STAKES +25'*

WETLAND IMPACTS WITHIN SLOPES STAKES +25'*

SURFACE WATER IMPACTS WITHIN SLOPES STAKES DOWN TO ESTIMATED LAKE BOTTOM*

SLOPES STAKES +25'

*PRELIMINARY IMPACTS

DUKE ENERGY CAROLINAS LLC

PROJECT REFERENCE NO.	SHEET NO.
R-2307	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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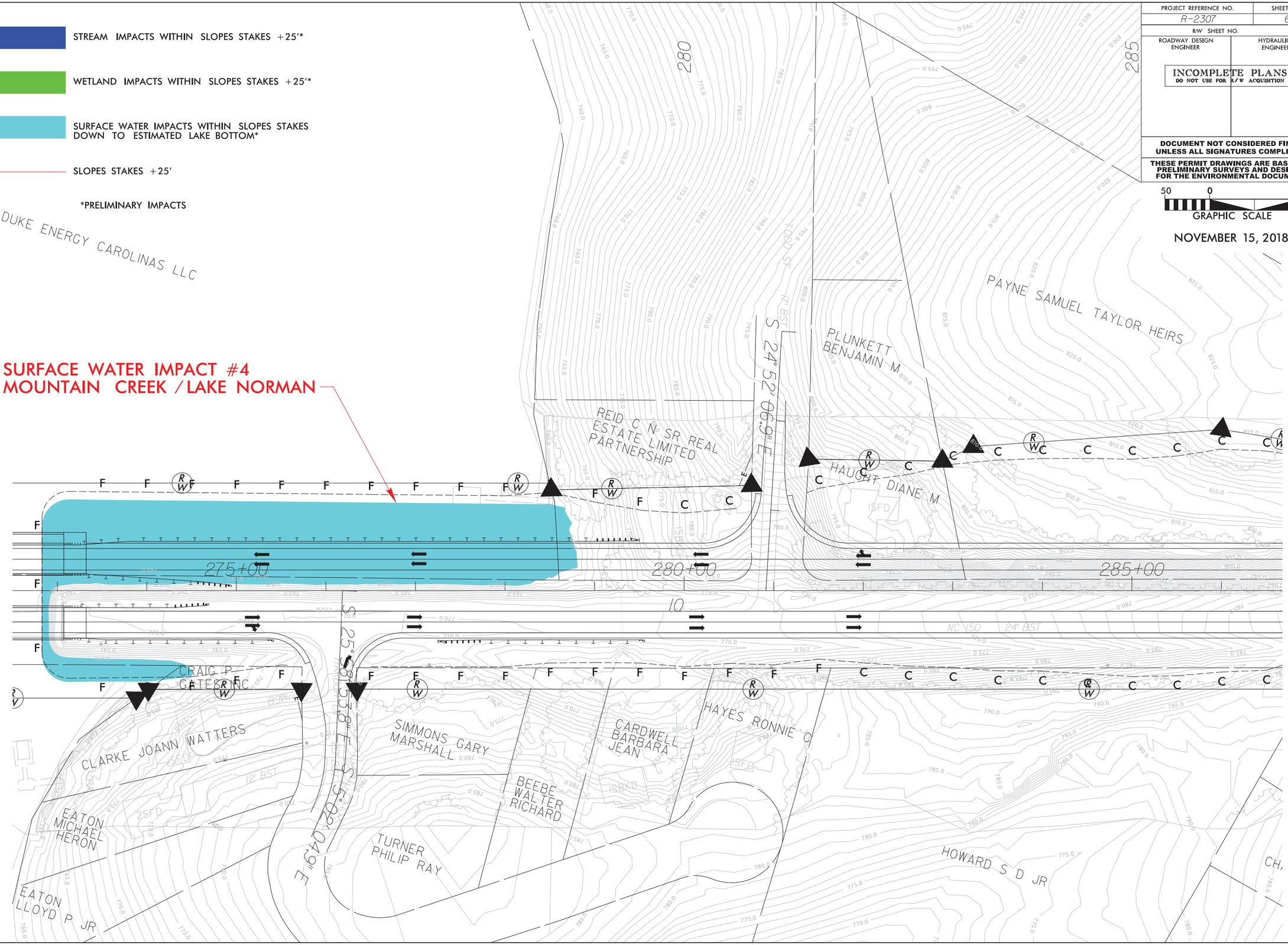
GRAPHIC SCALE

NOVEMBER 15, 2018



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5/14/99

STREAM IMPACTS WITHIN SLOPES STAKES +25'*

WETLAND IMPACTS WITHIN SLOPES STAKES +25'*

SURFACE WATER IMPACTS WITHIN SLOPES STAKES DOWN TO ESTIMATED LAKE BOTTOM*

SLOPES STAKES +25'

*PRELIMINARY IMPACTS

PROJECT REFERENCE NO.	SHEET NO.
R-2307	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THESE PERMIT DRAWINGS ARE BASED ON PRELIMINARY SURVEYS AND DESIGNS FOR THE ENVIRONMENTAL DOCUMENT

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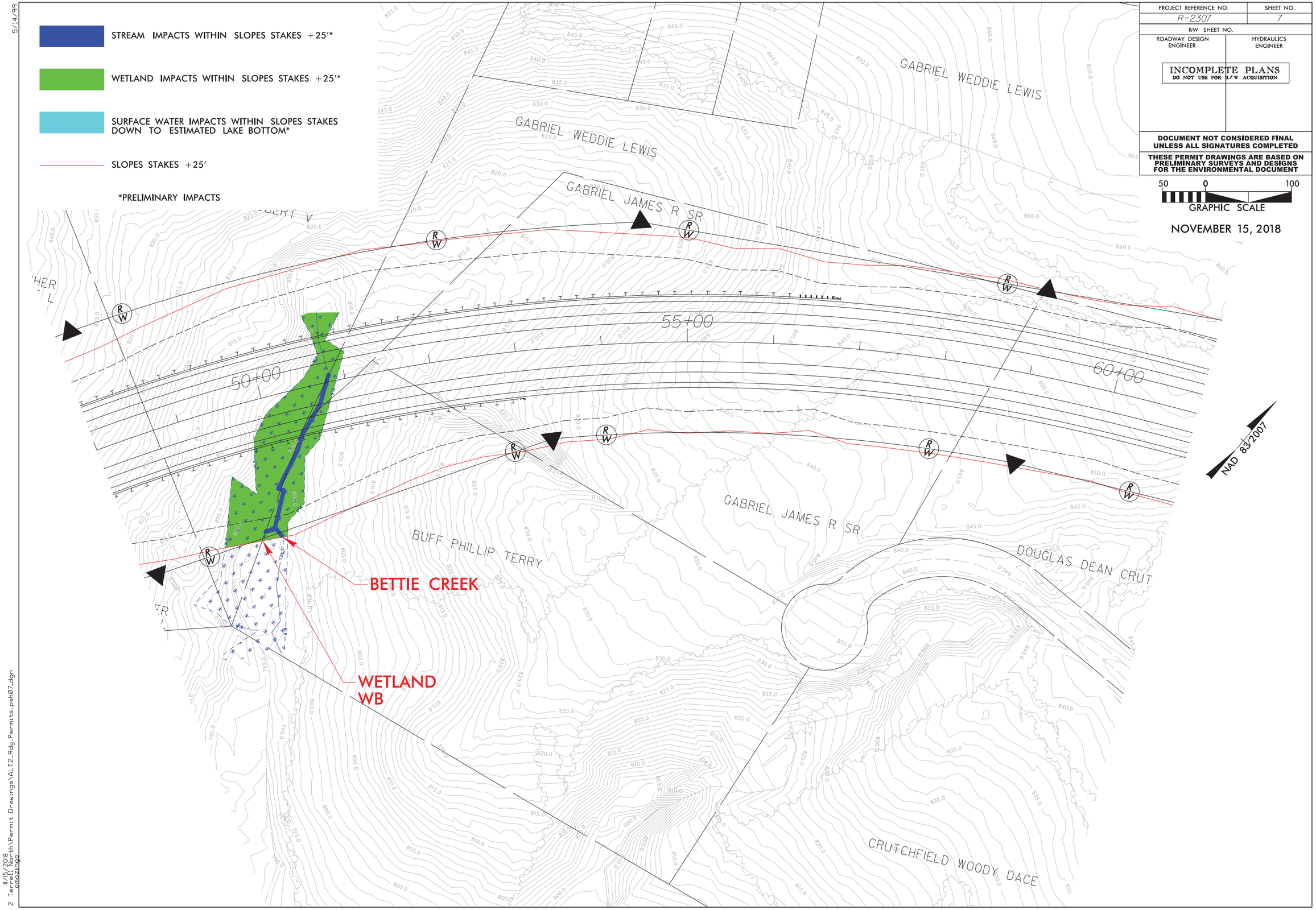
GRAPHIC SCALE

NOVEMBER 15, 2018



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\\Rdcustfs\Proj\Hydro\Branch\Permit Drawings\ALT2.Rdy_Permits_psh07.dgn
cmozingo

\ALT 2 Terrell

5/14/99

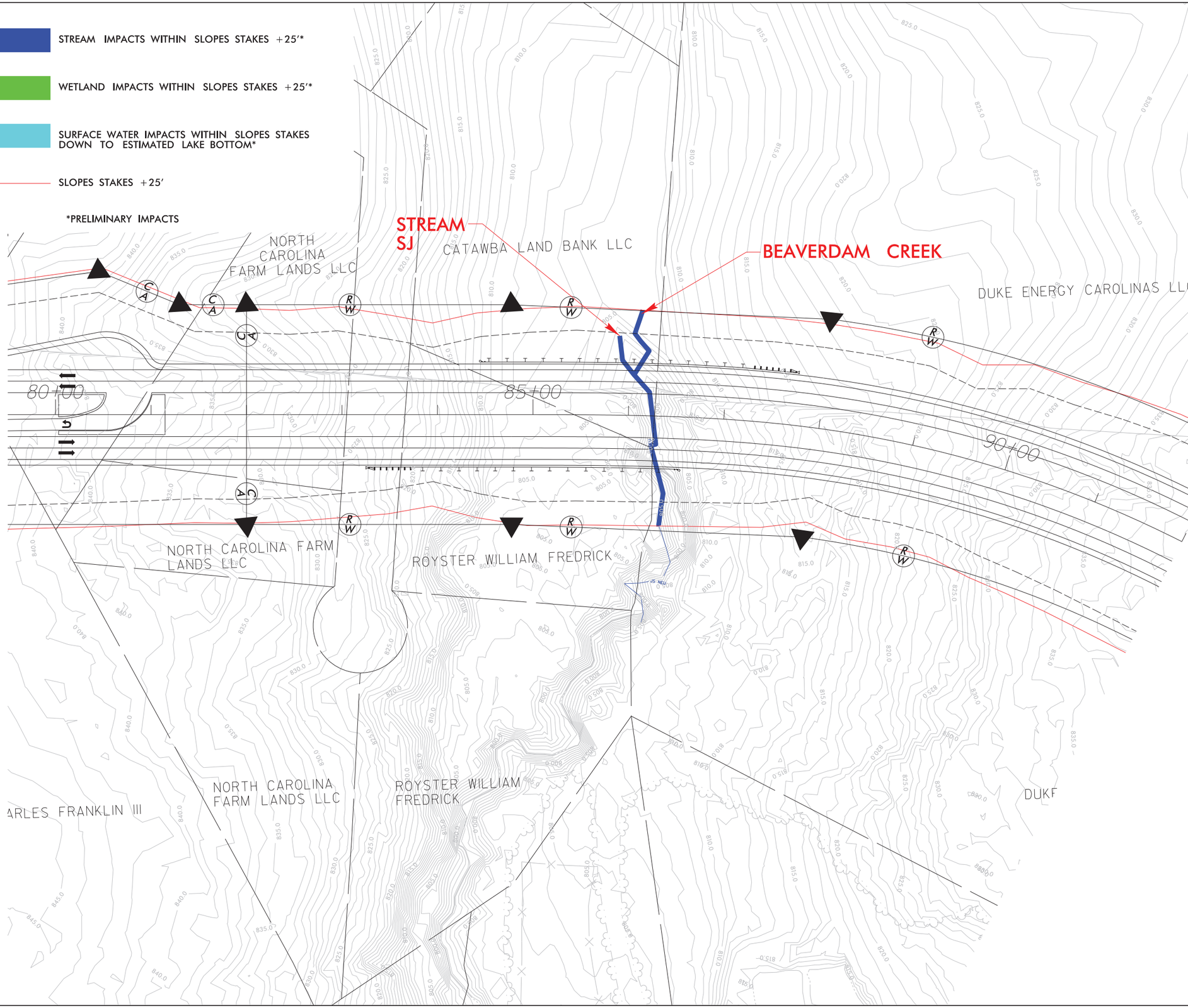
STREAM IMPACTS WITHIN SLOPES STAKES +25'*

WETLAND IMPACTS WITHIN SLOPES STAKES +25'*

SURFACE WATER IMPACTS WITHIN SLOPES STAKES DOWN TO ESTIMATED LAKE BOTTOM*

SLOPES STAKES +25'

*PRELIMINARY IMPACTS



PROJECT REFERENCE NO.	SHEET NO.
R-2307	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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50 0 100
GRAPHIC SCALE

NOVEMBER 15, 2018

ALT 2 Terrain\Permit Drawings\ALT2_Rdy_Permits_psh08.dgn
11/15/2018
cmozingo

R-2307A Preliminary Permit Impact Summary Table November 15, 2018					
Plan Sheet Number	Station (From/To)	Identifier	Wetland Impacts Within Slope Stakes +25' (Acres)	Stream Impacts Within Slope Stakes +25' (Linear Feet)	Surface Water Impacts Within Slope Stakes +25' (Acres)
2	32+57/33+88 -LALT1- LT	WE	0.08		
2	32+93/34+61 -LALT1- RT	WK	0.30		
2	33+23/33+80 -LALT1- LT	SA		81	
2	34+15/34+68 -LALT1- RT	SA		123	
2	36+88/37+55 -LALT1- RT	SB		138	
2	37+51/37+55 -LALT1- LT	SB		55	
3	207+24/208+62 -LALT1- RT	SC		188	
4	229+07/232+54 -LALT1- LT & RT	SURFACE WATER IMPACT #1 REED CREEK/LAKE NORMAN			0.93
4	234+44/241+49 -LALT1- LT & RT	SURFACE WATER IMPACT #2 REED CREEK/LAKE NORMAN			1.61
5	262+24/270+31 -LALT1- LT & RT	SURFACE WATER IMPACT #3 MOUNTAIN CREEK/LAKE NORMAN			2.15
6	272+83/278+81 -LALT1- LT & RT	SURFACE WATER IMPACT #4 MOUNTAIN CREEK/LAKE NORMAN			1.34
7	49+09/51+09 -LALT2- LT & RT	WB	0.35		
7	49+63/50+83 -LALT2- LT & RT	BETTIE CREEK		236	
8	85+89/86+06 -LALT2- LT	SJ		46	
8	86+05/86+39 -LALT2- LT & RT	BEAVERDAM CREEK		250	
TOTAL			0.73	1117.00	6.03