

**CAROLINA NORTH**  
**INDIVIDUAL PERMIT APPLICATION**




THE UNIVERSITY  
 OF NORTH CAROLINA  
 AT CHAPEL HILL

**PROJECT VICINITY**

JAN 04 2011

REVISED: 08.15.10 Regulatory Branch

**LEGEND**

 Carolina North Boundary

ACTION ID: 2010.07160  
 APPLICANT: UNIVERSITY OF NORTH CAROLINA  
 AT CHAPEL HILL  
 PROJ. NAME: CAROLINA NORTH  
 SHEET 1 OF 21

Source: National Geographic TOPOI-  
 scanned USGS 7.5 minute Topographic  
 Quadrangle, Chapel Hill, 1983.



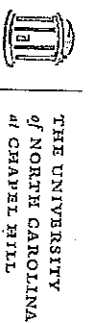
RhyoliteGIS  
 A Division of Environmental Systems



FIGURE A-1

# CAROLINA NORTH

## INDIVIDUAL PERMIT APPLICATION



### REVISED 2007 PROPOSED 50-YEAR DEVELOPMENT PLAN

REVISED: 10.20.10

#### Legend

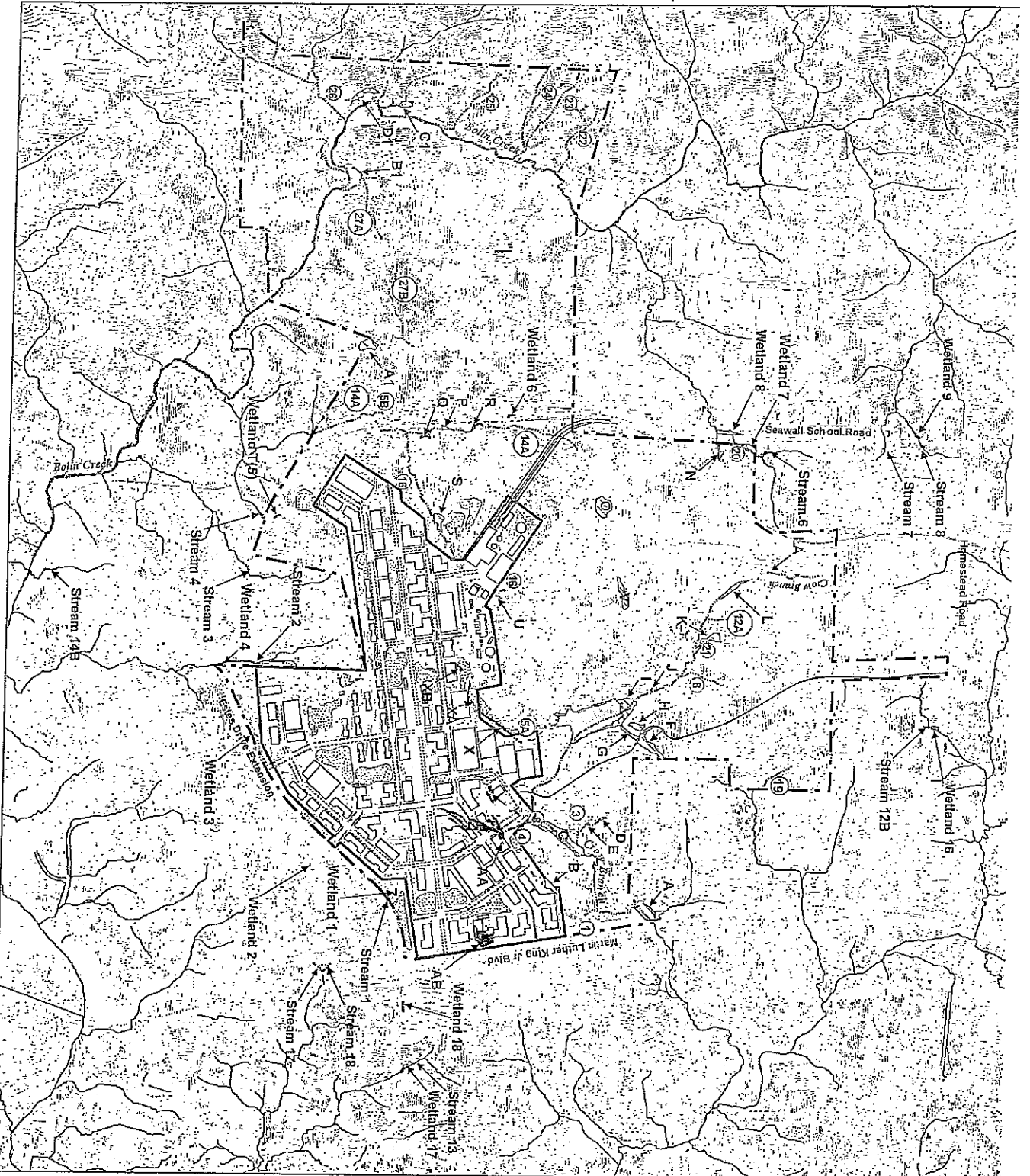
- Carolina North Boundary
- Open Water
- Delimited Wetlands
- Impacted Wetlands
- Town Streams
- USACE/DEWQ Delimited Streams
- USACE/DEWQ Critical Delimited Streams
- Impacted Stream
- Proposed Railroad Spur
- Proposed Greenway
- Development Area
- Proposed Buildings
- Stormwater Wetland
- Cistern
- Elevation
- Proposed Recreation Fields
- Proposed Greenspace

ACTION ID: 2010-01820  
 APPLICANT: UNIVERSITY OF  
 NORTH CAROLINA  
 AT CHAPEL HILL  
 PROJ. NAME: CAROLINA NORTH  
 SHEET 2 OF 21

0 500 1,000 Feet

Biohabitats  
BIOLOGICAL CONSULTANTS

FIGURE A-4



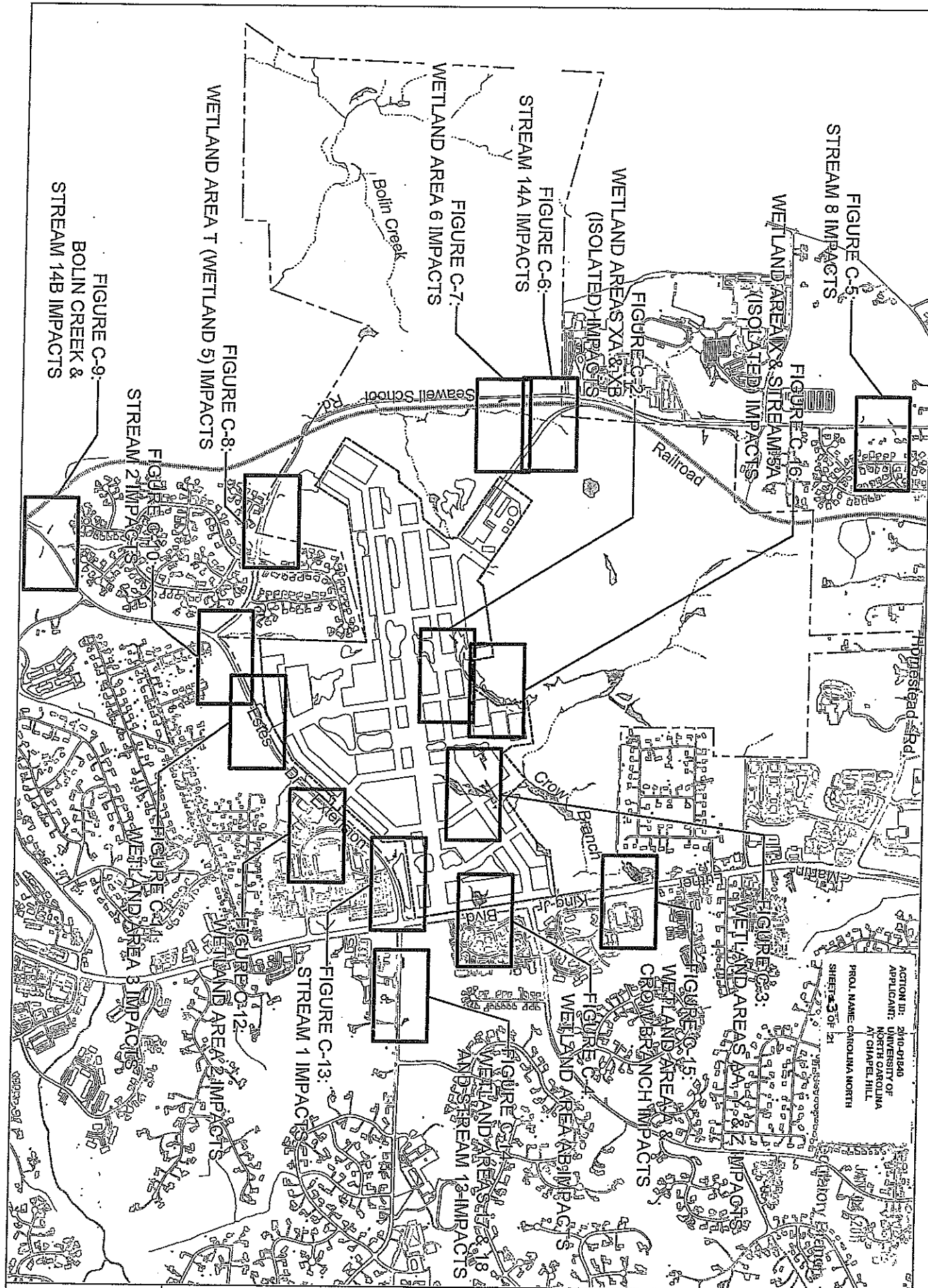


FIGURE C-5:  
STREAM 8 IMPACTS

FIGURE C-6:  
WETLAND AREA 8 & STREAM 15A  
(ISOLATED) IMPACTS

FIGURE C-2:  
WETLAND AREAS 2A, 3A, 3B  
(ISOLATED) IMPACTS

FIGURE C-6:  
STREAM 14A IMPACTS

FIGURE C-7:  
WETLAND AREA 6 IMPACTS

FIGURE C-8:  
WETLAND AREA T (WETLAND 5) IMPACTS

FIGURE C-9:  
BOLIN CREEK &  
STREAM 14B IMPACTS

FIGURE C-10:  
STREAM 21 IMPACTS

FIGURE C-11:  
WETLAND AREA 1 IMPACTS

FIGURE C-12:  
WETLAND AREA 2 IMPACTS

FIGURE C-13:  
STREAM 1 IMPACTS

FIGURE C-14:  
WETLAND AREA 3 IMPACTS

FIGURE C-15:  
WETLAND AREA 4 IMPACTS

FIGURE C-16:  
WETLAND AREA 5 IMPACTS

FIGURE C-17:  
WETLAND AREA 6 IMPACTS

FIGURE C-18:  
WETLAND AREA 7 IMPACTS

FIGURE C-19:  
WETLAND AREA 8 IMPACTS

FIGURE C-20:  
WETLAND AREA 9 IMPACTS

FIGURE C-21:  
WETLAND AREA 10 IMPACTS

FIGURE C-22:  
WETLAND AREA 11 IMPACTS

FIGURE C-23:  
WETLAND AREA 12 IMPACTS

FIGURE C-24:  
WETLAND AREA 13 IMPACTS

FIGURE C-25:  
WETLAND AREA 14 IMPACTS

FIGURE C-26:  
WETLAND AREA 15 IMPACTS

FIGURE C-27:  
WETLAND AREA 16 IMPACTS

FIGURE C-28:  
WETLAND AREA 17 IMPACTS

FIGURE C-29:  
WETLAND AREA 18 IMPACTS

FIGURE C-30:  
WETLAND AREA 19 IMPACTS

FIGURE C-31:  
WETLAND AREA 20 IMPACTS

FIGURE C-32:  
WETLAND AREA 21 IMPACTS

FIGURE C-33:  
WETLAND AREA 22 IMPACTS

FIGURE C-34:  
WETLAND AREA 23 IMPACTS

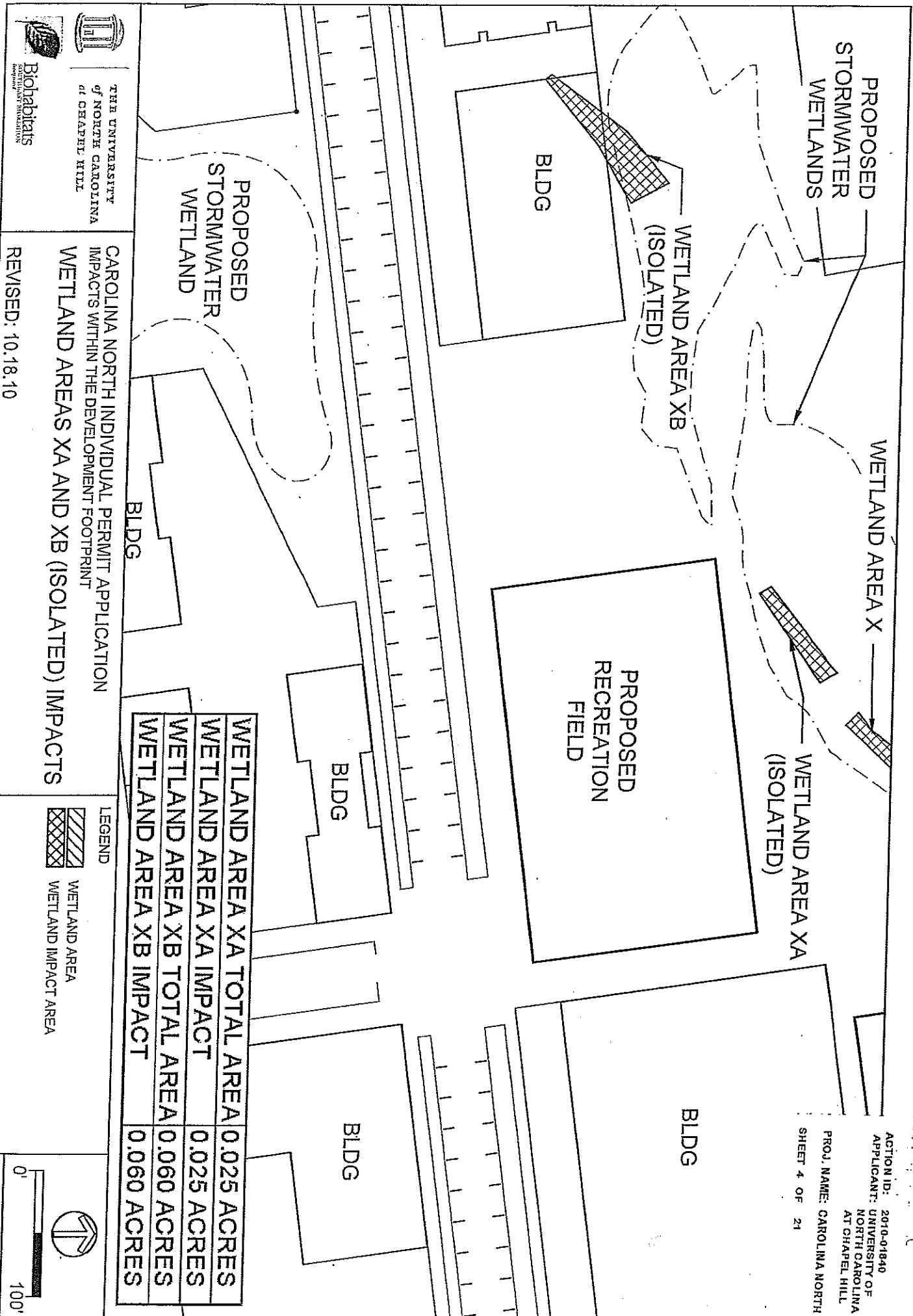
FIGURE C-35:  
WETLAND AREA 24 IMPACTS

FIGURE C-36:  
WETLAND AREA 25 IMPACTS

FIGURE C-37:  
WETLAND AREA 26 IMPACTS


ACTION ID: 210-01840  
 APPLICANT: UNIVERSITY OF  
 NORTH CAROLINA  
 AT CHAPEL HILL  
 PROJ. NAME: CAROLINA NORTH  
 SHEET 3 OF 14


ACTION ID: 2010-01840  
 APPLICANT: UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
 PROJ. NAME: CAROLINA NORTH  
 SHEET 4 OF 21



WETLAND AREA XA TOTAL AREA	0.025 ACRES
WETLAND AREA XA IMPACT	0.025 ACRES
WETLAND AREA XB TOTAL AREA	0.060 ACRES
WETLAND AREA XB IMPACT	0.060 ACRES

LEGEND


 WETLAND AREA

 WETLAND IMPACT AREA

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION  
 IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT  
 WETLAND AREAS XA AND XB (ISOLATED) IMPACTS

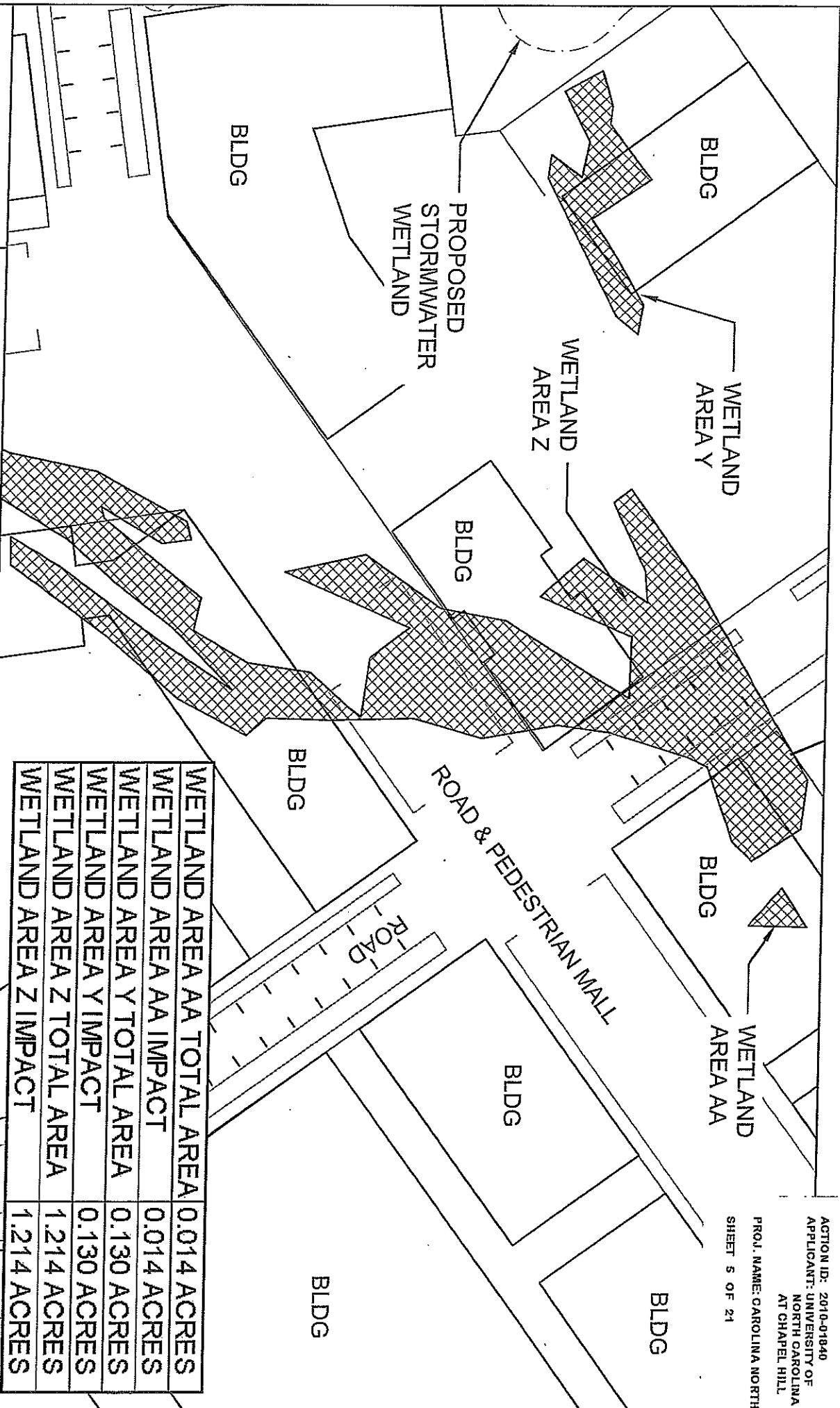
REVISED: 10.18.10

THE UNIVERSITY  
 of NORTH CAROLINA  
 at CHAPEL HILL



Biohabitats  
 CONSULTING AND PLANNING

FIGURE C-2



WETLAND AREA AA TOTAL AREA	0.014 ACRES
WETLAND AREA AA IMPACT	0.014 ACRES
WETLAND AREA Y TOTAL AREA	0.130 ACRES
WETLAND AREA Y IMPACT	0.130 ACRES
WETLAND AREA Z TOTAL AREA	1.214 ACRES
WETLAND AREA Z IMPACT	1.214 ACRES

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION  
 IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT  
 WETLAND AREAS AA, Y, AND Z IMPACTS

REVISED: 10.18.10

**Biohabitats**  
 THE UNIVERSITY  
 OF NORTH CAROLINA  
 AT CHAPEL HILL

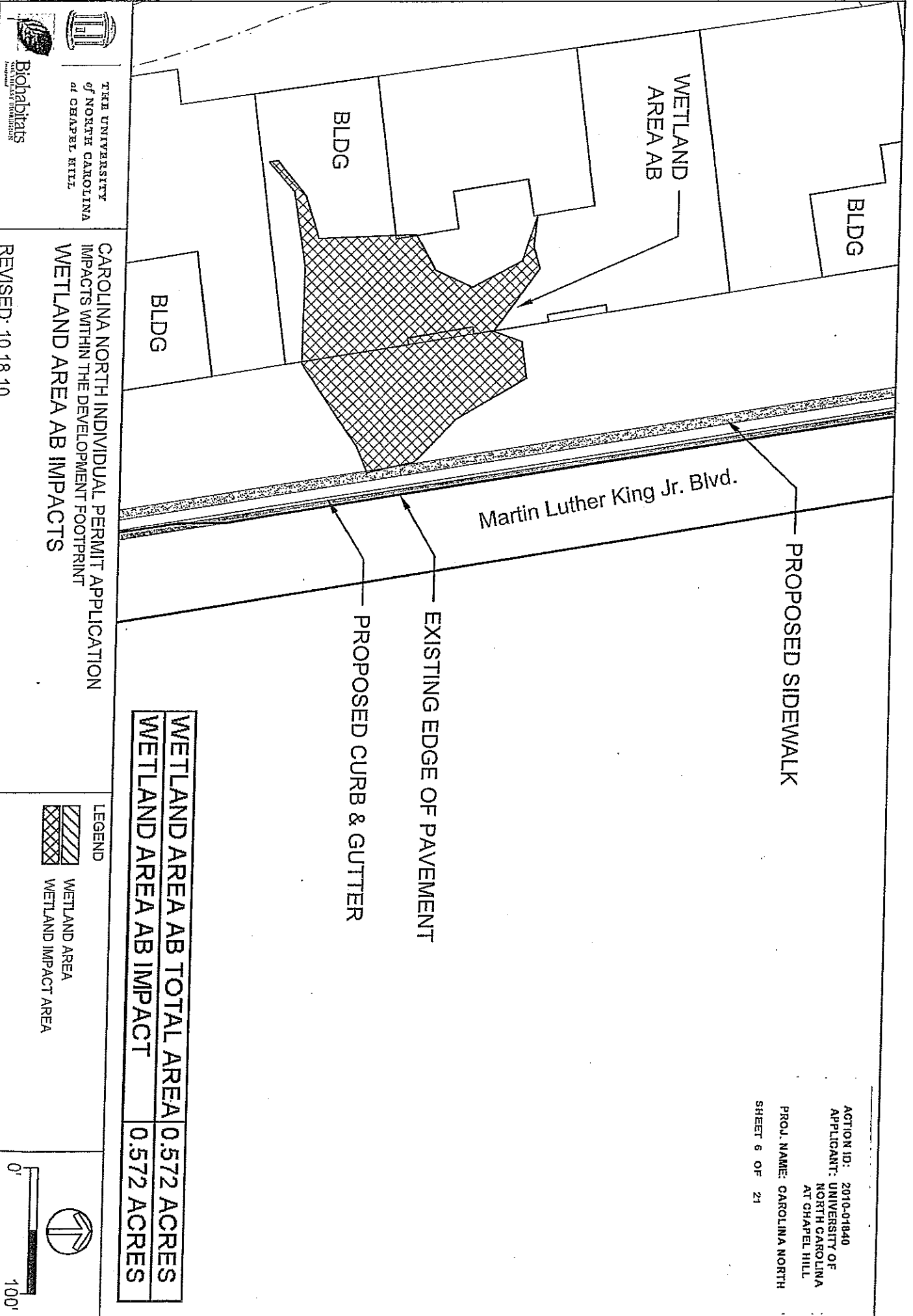
LEGEND


WETLAND AREA

WETLAND IMPACT AREA

0' 100'

FIGURE C-3







  
**TRH UNIVERSITY**  
 of NORTH CAROLINA  
 at CHAPEL HILL

**CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION**  
 IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT  
**WETLAND AREA AB IMPACTS**  
 REVISED: 10.18.10

WETLAND AREA AB TOTAL AREA	0.572 ACRES
WETLAND AREA AB IMPACT	0.572 ACRES

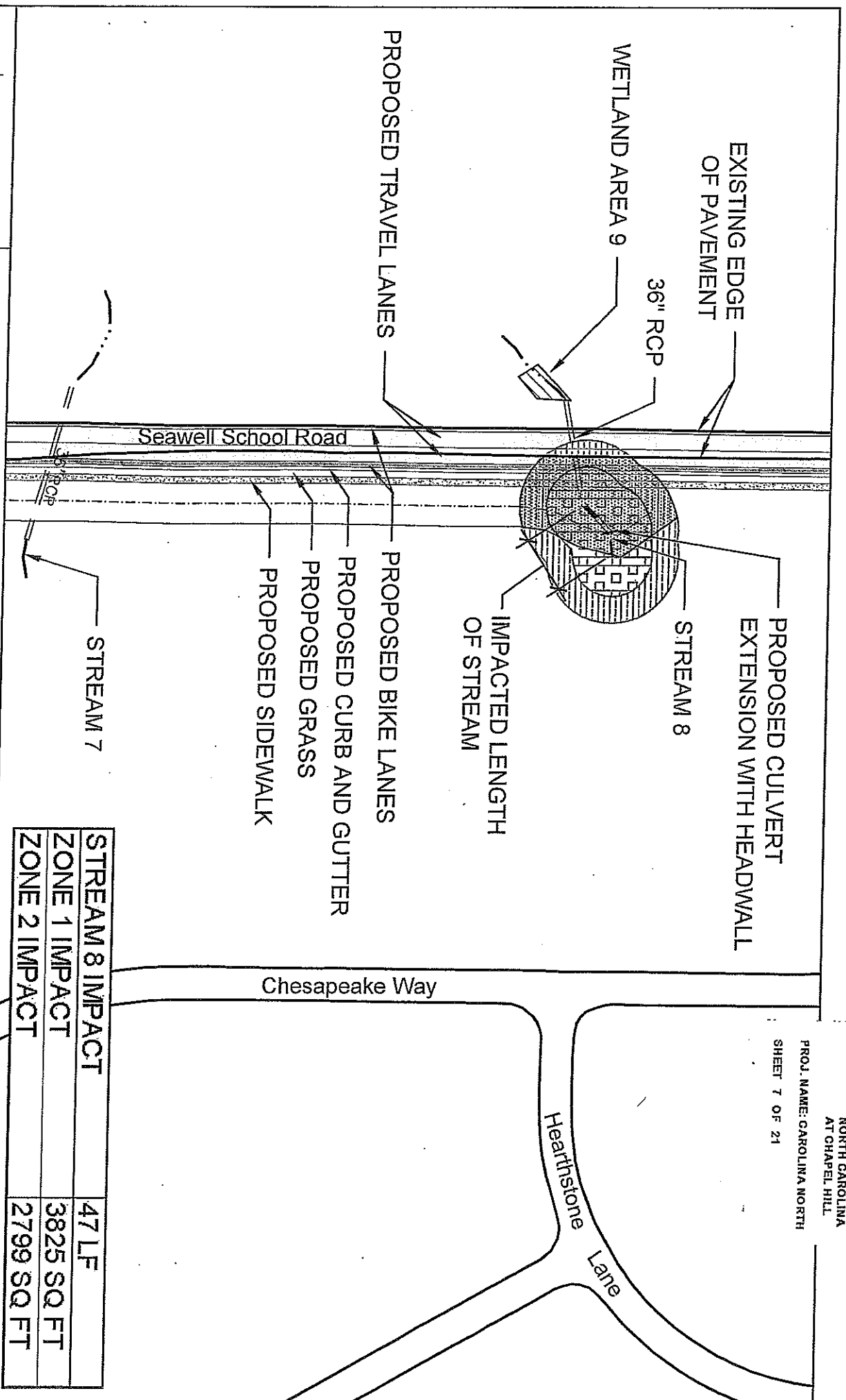
ACTION ID: 2010-01840  
 APPLICANT: UNIVERSITY OF  
 NORTH CAROLINA  
 AT CHAPEL HILL  
 PROJ. NAME: CAROLINA NORTH  
 SHEET 6 OF 21

**LEGEND**  
 WETLAND AREA  
 WETLAND IMPACT AREA


  
  
 0' 100'  
**FIGURE C-4**


ACTION ID: 2018-01840  
 APPLICANT: UNIVERSITY OF  
 NORTH CAROLINA  
 AT CHAPEL HILL

PROJ. NAME: CAROLINA NORTH  
 SHEET 7 OF 21



STREAM 8 IMPACT	47 LF
ZONE 1 IMPACT	3825 SQ FT
ZONE 2 IMPACT	2799 SQ FT




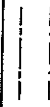
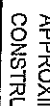
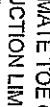

  
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 AT CHAPEL HILL


  
 Biohabitats  
 AN ENVIRONMENTAL CONSULTING FIRM

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION  
 IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT  
 STREAM 8 IMPACTS

REVISED: 10.18.10

LEGEND

-  JORDAN LAKE BUFFER: ZONE 1
-  JORDAN LAKE BUFFER: ZONE 2
-  JORDAN LAKE BUFFER IMPACT AREA
-  STREAM CENTERLINE
-  APPROXIMATE TOE OF SLOPE
-  CONSTRUCTION LIMITS




  

  
 0' 100'

FIGURE C-5

PROPOSED RAILROAD SPUR

EXISTING RAILROAD

PROPOSED RAILROAD SPUR

STREAM 14A

Seawell School Road

RIP RAP  
DISSIPATION  
PAD

DIVISION OF WATER  
QUALITY EPHEMERAL/  
INTERMITTENT POINT







EXISTING  
EDGE OF  
PAVEMENT

PROPOSED 36" CULVERT

IMPACTED LENGTH OF STREAM

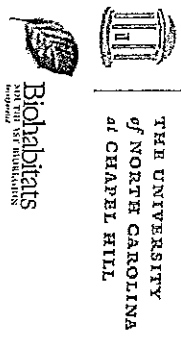
STREAM 14A IMPACT	174 LF
ZONE 1 IMPACT	0 SQ FT
ZONE 2 IMPACT	0 SQ FT

LEGEND

-  JORDAN LAKE BUFFER: ZONE 1
-  JORDAN LAKE BUFFER: ZONE 2
-  JORDAN LAKE BUFFER IMPACT AREA
-  STREAM CENTERLINE
-  APPROXIMATE TOE OF SLOPE
-  CONSTRUCTION LIMITS

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION  
IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT  
STREAM 14A IMPACTS

FEBRUARY 16, 2011 REVISION 1



ACTION ID: 2010-01840  
APPLICANT: UNIVERSITY OF  
NORTH CAROLINA  
AT CHAPEL HILL  
PROJ. NAME: CAROLINA NORTH

SHEET 8 OF 21

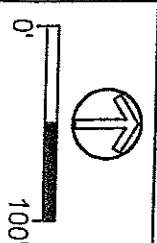
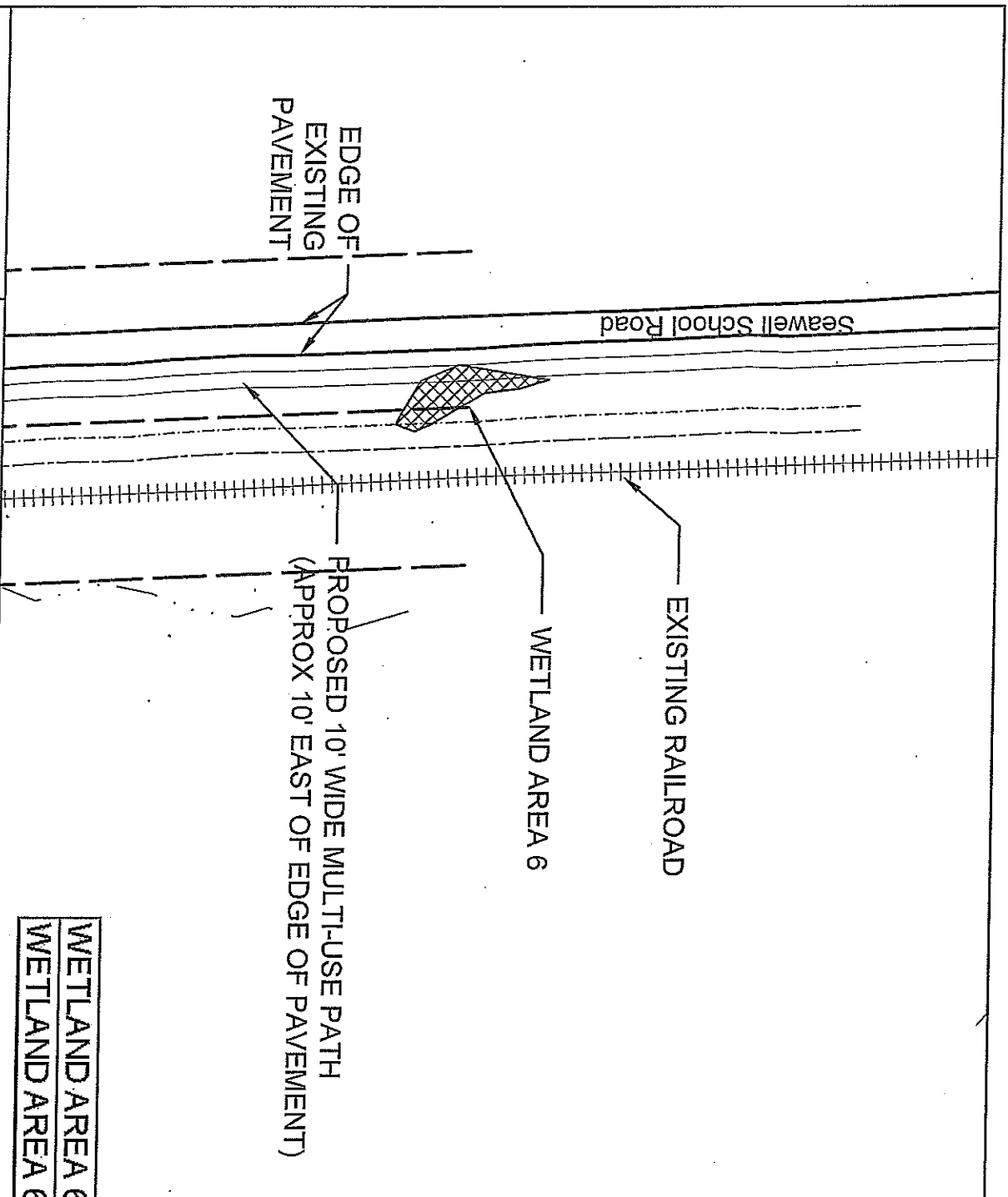


FIGURE C-6





WETLAND AREA 6 TOTAL AREA	0.037 ACRES
WETLAND AREA 6 IMPACT	0.037 ACRES

Biohabitats  
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 of NORTH CAROLINA  
 at CHAPEL HILL

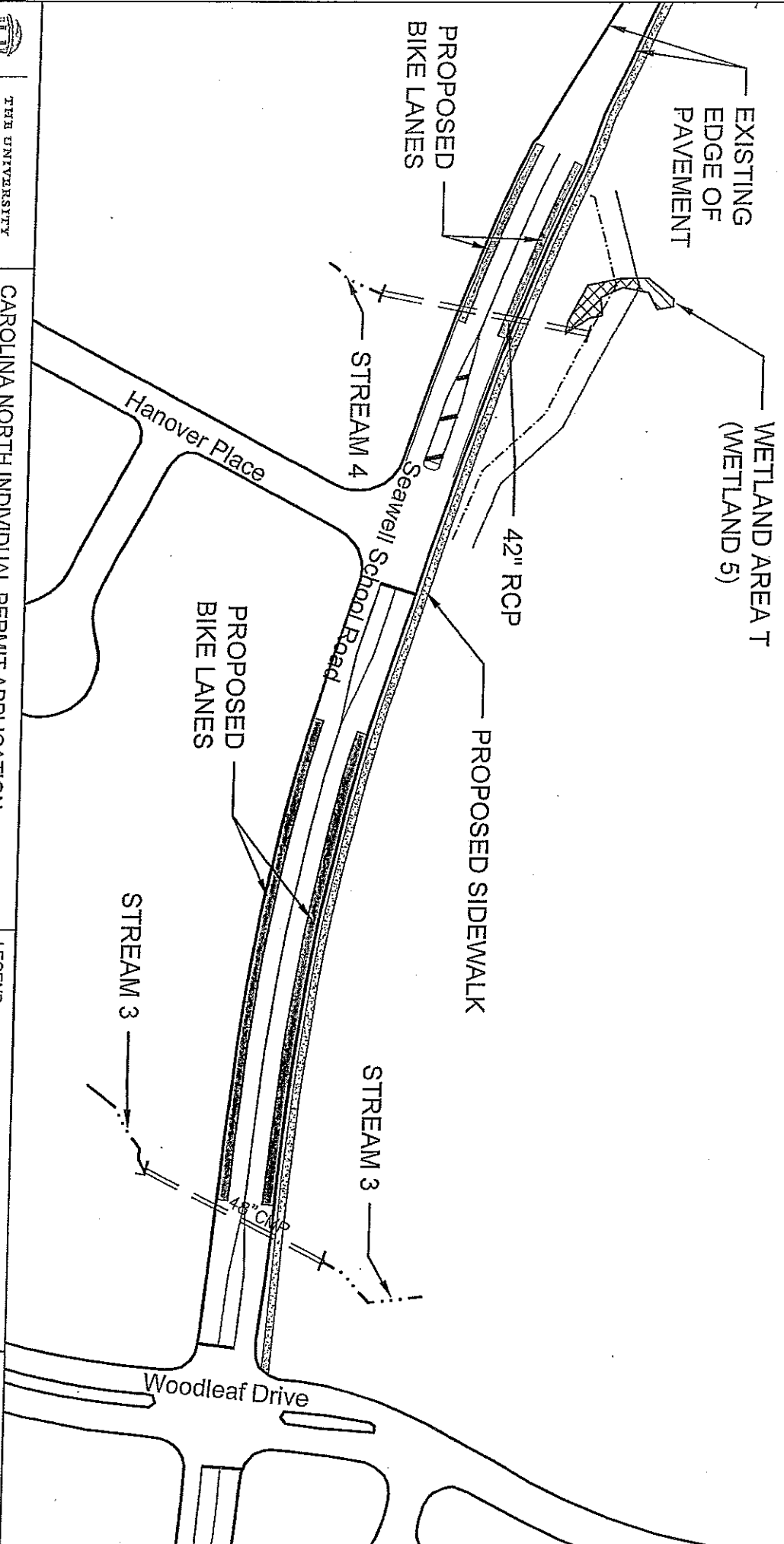
CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION  
 IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT  
 WETLAND AREA 6 IMPACTS  
 REVISED: 10.18.10

LEGEND

- WETLAND AREA
- WETLAND IMPACT AREA
- APPROXIMATE TOE OF SLOPE
- CONSTRUCTION LIMITS

FIGURE C-7

WETLAND AREA T TOTAL AREA	0.020 ACRES
WETLAND AREA T IMPACT	0.014 ACRES



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CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION  
 IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT  
 WETLAND AREA T (WETLAND 5) IMPACTS

REVISED: 10.18.10

**LEGEND**

- WETLAND AREA
- WETLAND IMPACT AREA
- APPROXIMATE TOE OF SLOPE
- CONSTRUCTION LIMITS
- STREAM CENTERLINE

0' 100'

**FIGURE C-8**