

DEPARTMENT OF THE ARMY
Wilmington District, Corps of Engineers
Raleigh Regulatory Field Office
6508 Falls of Neuse Road, Suite 120
Raleigh, North Carolina 27615-6814
(Web page - <http://www.saw.usace.army.mil/wetlands/index.html>)

Action ID. 200420150

May 27, 2004

PUBLIC NOTICE

PERMIT MODIFICATION

The North Carolina Department Of Transportation, Division Of Highways, 1548 Mail Service Center, Raleigh, North Carolina 27699-1548, has applied for MODIFICATION OF a DEPARTMENT OF THE ARMY (DA) PERMIT pursuant to SECTION 404 OF THE CLEAN WATER ACT, to authorize the proposed discharge of dredged and fill material impacting a total of 3.46 acres of WETLANDS, 551 linear feet of STREAM, and 3.54 acres of PONDS, for construction of the EASTERN WAKE EXPRESSWAY (I-540) CONNECTOR, extending from the US 64 Knightdale Bypass to US 64 Business, (T.I.P. No. R-2641), crossing MANGO CREEK, unnamed tributaries, and adjacent wetlands, east of KNIGHTDALE, in WAKE COUNTY, North Carolina.

The following description of the work is taken from data provided by the applicant. Plans submitted with the application show the placement of fill material impacting a total of 551 linear feet of stream, 3.54 acres of ponds, and 3.43 acres of wetlands, in the Neuse River basin. These impacts are necessary for the construction of Eastern Wake Expressway (I-540) Connector (TIP R-2641). The proposed highway widening will extend approximately two miles, and will connect the US 64 Knightdale Bypass (TIP R-2547) and the Northern Wake Expressway (TIP R-2000G), both of which are currently under construction. The highway will be a four-lane, controlled-access, divided roadway, and will connect to both the US 64 Knightdale Bypass at its south end, and the Northern Wake Expressway at its north end, with interchanges.

The US 64 Knightdale Bypass (TIP R-2547) and the Eastern Wake Expressway (EWE, I-540) Connector (TIP R-2641) were previously authorized under a single individual Department of the Army permit (Action ID. 200020819). The EWE was authorized based on preliminary design, with a condition that its construction would require modification of the permit if the final design changed the impacts to waters of the U.S. The impacts in the application described in this public notice are for all of the construction related to the EWE, and do not include the previously permitted impacts that have occurred for construction of the US 64 Knightdale Bypass. The compensatory mitigation described in this public notice is mitigation for additional impacts, beyond the total impacts for the combined Knightdale Bypass and EWE that were

authorized in the original permit, and that were mitigated as required in the original permit. The final design for the EWE has decreased the impacts from the preliminary design to wetlands by 0.13 acre, and has increased impacts to streams by 266 linear feet, and to ponds by 1.27 acres. The impact increases in the final design are primarily due to design revisions to better match the grades between the Knightdale Bypass and the EWE, design revisions to better accommodate stormwater, and inadvertent omissions in the original application.

The project will involve fill impacts to 449 linear feet of perennial stream channel, and 102 linear feet of intermittent stream channel at two locations. The proposed construction will impact a total of 3.46 acres of vegetated wetlands by permanent and temporary filling, excavation, and mechanized clearing. The impacted wetlands consist of palustrine and riverine, forested and marsh areas. The project will also impact the beaver pond wetland system adjacent to Mingo Creek by hand-clearing and construction of temporary and permanent piles for a temporary construction access bridge and permanent dual bridges for the roadway.

NCDOT is also requesting to extend the expiration date of the permit to December 2006.

NCDOT is proposing to use the North Carolina Ecosystem Enhancement Program (EEP) to provide the necessary compensatory mitigation for the additional 164 linear feet of unavoidable perennial stream impacts associated with this project.

The purpose of the proposed highway project, in conjunction with the US 64 Knightdale Bypass and the Northern Wake Expressway, is to reduce considerable congestion and provide safer operating conditions on this portion of the US 64 corridor, and on north-south roadways in the general area. The applicant has considered several alternatives to the proposed project, including the no-build alternative, and alternative alignments. In addition, the applicant has implemented measures in the design of the highway to avoid and minimize wetland and stream impacts, including extending the Mango Creek bridges to avoid filling high quality wetlands, not staging construction equipment or storing supplies in wetlands or near surface waters, using increased fill slopes at wetland and stream crossings, minor alignment shifts and grade changes to minimize wetland impacts, and using a work bridge for construction access for the Mango Creek bridges.

Overall plans showing the location of the proposed construction and impact sites are included with this public notice. Additional detailed plans and information about the North Carolina Ecosystem Enhancement Program may be reviewed at the U.S. Army Corps of Engineers Regulatory Field Office at 6508 Falls of Neuse Road, Suite 120, Raleigh, North Carolina 27615-6846, or at the offices of the North Carolina Division of Water Quality at the address shown below.

The State of North Carolina will review this public notice to determine the need for the applicant to obtain any required State authorization. No Department of the Army permit modification will be issued until the coordinated State viewpoint on the proposal has been

received and reviewed by this agency, nor will a Department of the Army permit modification be issued until the North Carolina Division of Water Quality has determined the applicability of a Water Quality Certificate as required by PL 92-500.

This application is being considered pursuant to Section 404(b) of the Clean Water Act (33 U.S.C. 1344). Any person may request, in writing within the comment period specified in the notice, that a public hearing be held to consider this application. Requests for public hearing shall state, with particularity, the reasons for holding a public hearing.

NCDOT has conducted surveys for architectural and archaeological resources, and has coordinated with the North Carolina State Historic Preservation Officer (SHPO). SHPO has concurred that the project will not have any effect on architectural resource properties eligible for inclusion in the Register. Four archaeological sites have been identified that are within the project area for TIP Nos. R-2547 and R-2641. NCDOT and the Federal Highway Administration have developed an Memorandum of Agreement in cooperation with the SHPO that addresses the four archaeological sites and compliance under Section 106 of the National Historic Preservation Act. The District Engineer is otherwise unaware of the presence of architectural or archaeological resources eligible for inclusion in the Register. Presently unknown archaeological, scientific, prehistoric, or historical data may be lost or destroyed by work under the requested permit.

The District Engineer is not aware, based on available information, that the activity will affect species, or their critical habitat, designated as endangered or threatened pursuant to the Endangered Species Act of 1973.

The decision whether to issue a permit modification will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts which the proposed activity may have on the public interest requires a careful weighing of all those factors which become relevant in each particular case. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors which may be relevant to the proposal must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the placement of dredged or fill materials in waters of the United States, a permit modification will be denied if the discharge that would be authorized by such permit modification would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria, a permit modification will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit modification for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

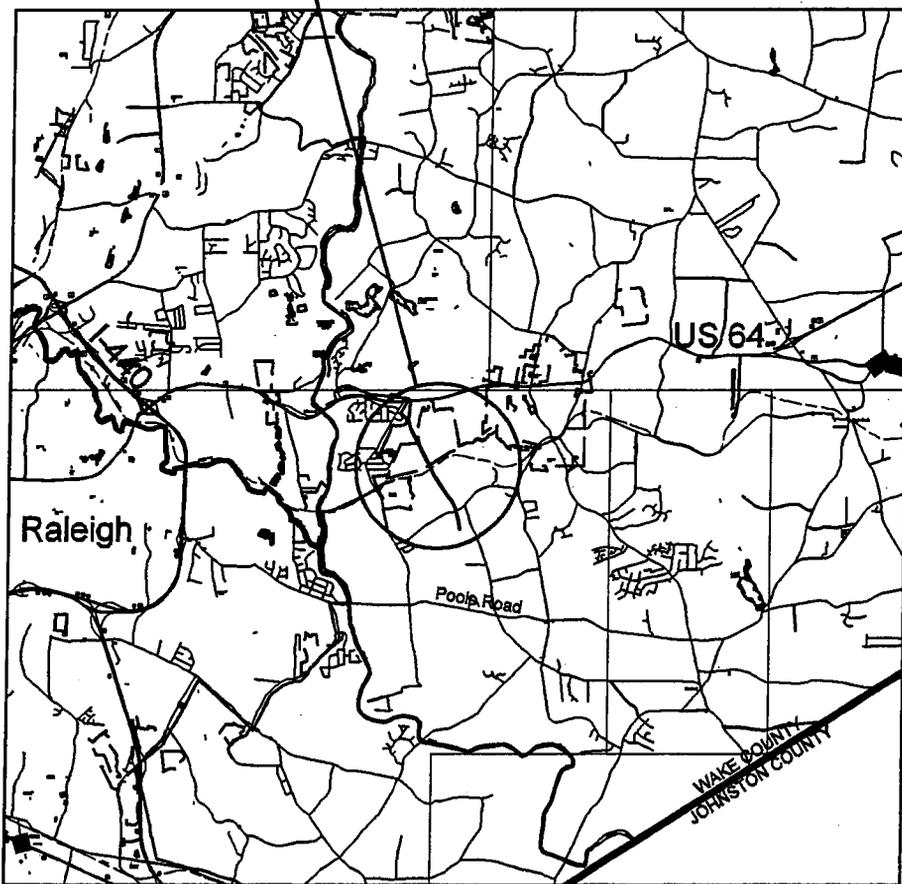
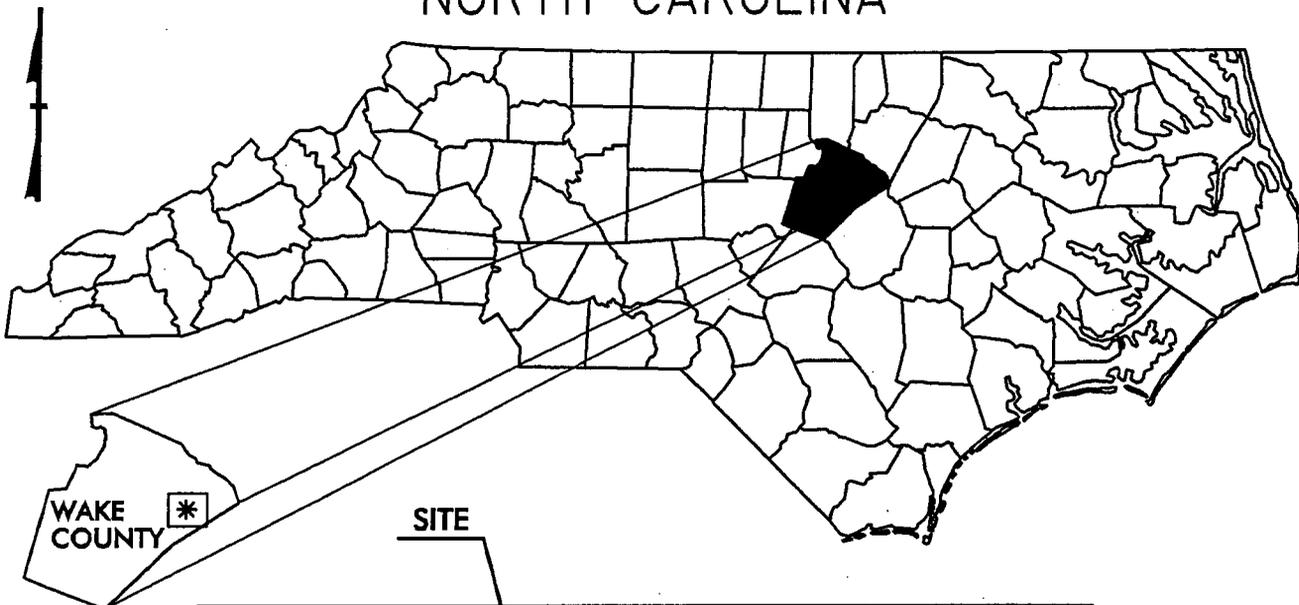
Generally, the decision whether to issue this DA permit modification will not be made until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act. The NCDWQ considers whether or not the proposed activity will comply with Sections 301, 302, 306, and 307 of the Clean Water Act. The application and this public notice for the DA permit modification serves as application to the NCDWQ for certification.

Additional information regarding the Clean Water Act certification may be reviewed at the offices of the Wetlands /401 Unit, North Carolina DENR, Division of Water Quality, 2321 Crabtree Boulevard, Raleigh, North Carolina. Copies of such materials will be furnished to any person requesting copies upon payment of reproduction costs.

All persons desiring to make comments regarding the application for Clean Water Act certification should do so in writing delivered to the North Carolina Department of Environment and Natural Resources, Division of Water Quality, 1650 Mail Service Center, Raleigh, NC 27699-1650, on or before June 21, 2004, Attention: Mr. John Dorney.

Written comments pertinent to the proposed work, as outlined above, will be received in this office, Attention: Eric Alsmeyer, until 4:15 p.m., June 28, 2004, or telephone 919-876-8441, extension 23.

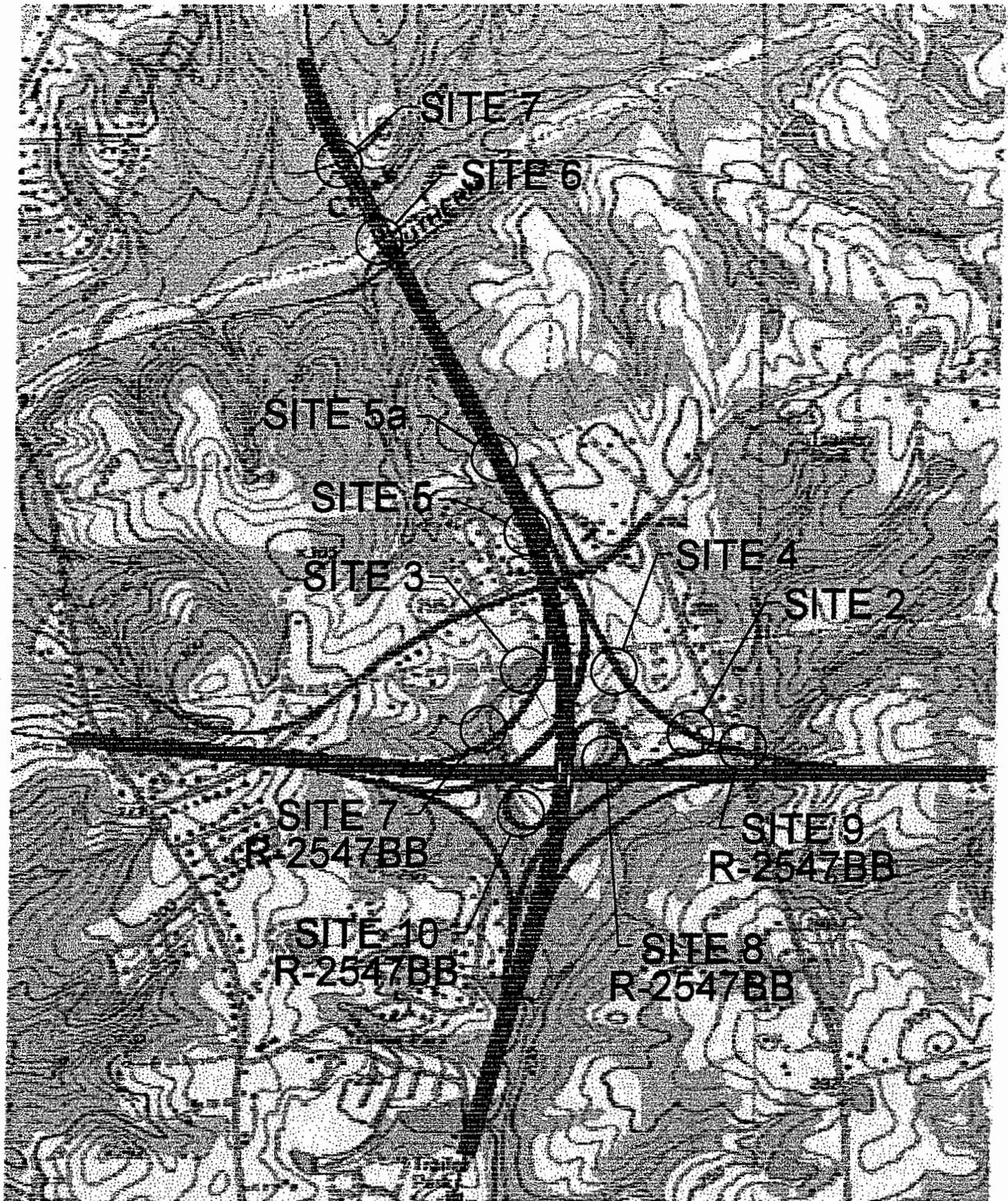
NORTH CAROLINA



VICINITY MAP

**NORTH CAROLINA
DEPARTMENT OF HIGHWAYS**

WAKE COUNTY
WBS 34494.LI (R-264I)
EAST RALEIGH OUTER LOOP



05/11/2004
09:45:01 PM
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QUAD MAP OVERLAY
WETLAND SITE MAP
NOT TO SCALE

NORTH CAROLINA
DEPARTMENT OF HIGHWAYS

WAKE COUNTY
WBS 34494.JJ (R-2641)
EAST RALEIGH OUTER LOOP

SHEET 2 OF 9

SUMMARY OF AFFECTED PROPERTY OWNERS

| TRACT NO. | PROPERTY OWNER | ADDRESS | SITE NO. |
|-----------|---------------------------|--|----------------------------------|
| (1) | LOLA T. CLIFTON | 4100 CLIFTON RD. KNIGHTDALE, NC 27545 | 9 R-2547BB |
| (2) | CLARENCE I. FERRELL, ETAL | 1020 W. PEACE ST. APT T4 RALEIGH, NC 27605 | 9 R-2547BB |
| (3) | JAMES E. POPE JR. | 1116 BETHLEHEM RD. KNIGHTDALE, NC 27545 | 9 R-2547BB |
| (4) | JERRY GOWER | 4814 OLD FAISON RD RALEIGH, NC 27611 | 5 R-2641 |
| (5) | KATHLEEN K. COX | 202 GOWER CIRCLE KNIGHTDALE, NC 27545 | 5 R-2641 |
| (6) | DAVID E. & MYRA S. SNIDER | 204 GOWER CIRCLE KNIGHTDALE, NC 27545 | 5 R-2641 |
| (7) | GEORGE M. & HELEN J. BYRD | 206 GOWER CIRCLE KNIGHTDALE, NC 27545 | 5 R-2641 |
| (8) | N.C.D.O.T. | P.O. BOX 25201 RALEIGH, NC 27611 | 7, 8, 10 R-2547BB 3 R-2641 |
| (9) | CARL D. & VICKIE WALL | 4809 OLD FAISON RD. KNIGHTDALE, NC 27545 | 3 R-2641 |
| | | | |
| | | | |

**NORTH CAROLINA
DEPARTMENT OF HIGHWAYS**

WAKE COUNTY
WBS 34494.LI(R-2641)
EAST RALEIGH OUTER LOOP

SUMMARY OF AFFECTED PROPERTY OWNERS

| TRACT NO. | PROPERTY OWNER | ADDRESS | SITE NO. |
|-----------|-------------------------------------|---|----------------------|
| (10) | LOLA T. CLIFTON | 4100 CLIFTON RD. KNIGHTDALE, NC 27545 | 2 R-264I 4 R-264I |
| (11) | AARON R. WALL JR. | 4630 OLD FAISON RD. KNIGHTDALE, NC 27545 | 5 R-264I |
| (12) | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 27619 | 8 R-2547BB |
| (13) | E.W.I. ASSOCIATES | P.O. BOX 228 WARRENSVILLE, NC 28693 | 5a R-264I |
| (14) | MINGO CAPITAL, LLC | 400 RIVERWOOD DR. CLAYTON, NC 27520 | 5a R-264I |
| (15) | NORFOLK & SOUTHERN RAILROAD | 110 FRANKLIN RD SE ROANOKE, NC 24042 | 6 R-264I |
| (16) | SANDERS DEVELOPMENT COMPANY, LLC | P.O. BOX 37759 RALEIGH, NC 27627 | 6 R-264I |
| (17) | TOWN OF KNIGHTDALE | P.O. BOX 640 KNIGHTDALE, NC 27545 | 6 R-264I |
| (18) | SANDERS DEVELOPMENT COMPANY, LLC | P.O. BOX 37759 RALEIGH, NC 27627 | 6 R-264I |
| (19) | SANDERS DEVELOPMENT COMPANY, LLC | P.O. BOX 37759 RALEIGH, NC 27627 | 6 R-264I |
| (20) | SANDERS DEVELOPMENT COMPANY, LLC | P.O. BOX 37759 RALEIGH, NC 27627 | 7 R-264I |

NORTH CAROLINA
DEPARTMENT OF HIGHWAYS

WAKE COUNTY
WBS 34494.IJ (R-264I)
EAST RALEIGH OUTER LOOP

SUMMARY OF AFFECTED PROPERTY OWNERS

| TRACT NO. | PROPERTY OWNER | ADDRESS | SITE NO. |
|-----------|-------------------------------------|--|-------------|
| (21) | SANDERS DEVELOPMENT COMPANY, LLC | P.O. BOX 37759 RALEIGH, NC 27627 | 7 R-264I |
| (22) | JUDY W. SIMMONS | 1309 OLD MILBURNIE RD. RALEIGH, NC 27604 | 10 R-2547BB |
| (23) | P.H. SIMMONS & ASSOCIATES, INC. | 1309 OLD MILBURNIE RD. RALEIGH, NC 27604 | 10 R-2547BB |
| (24) | PREISTLY PIERCE JR. | 3636 KEMP DR. KNIGHTDALE, NC 27545 | 10 R-2547BB |
| (25) | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 276II | 10 R-2547BB |
| (26) | ENDA SPAIN | 1121 CLEAR CIRCLE WENDELL, NC 2759I | 10 R-2547BB |
| (27) | NORMA GRACE LEWIS | 4733 OLD US 64 HWY E. ZEBULON, NC 27597 | 10 R-2547BB |
| (28) | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 276II | 10 R-2547BB |
| (29) | SHANE P. & HELEN M. ZIMMERMAN | 4416 BIRNAMWOOD CT. HOLLY SPRINGS, NC 27540 | 10 R-2547BB |
| (30) | SHANE P. & HELEN M. ZIMMERMAN | 4416 BIRNAMWOOD CT. HOLLY SPRINGS, NC 27540 | 10 R-2547BB |
| (31) | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 276II | 10 R-2547BB |

**NORTH CAROLINA
DEPARTMENT OF HIGHWAYS**

WAKE COUNTY
WBS 34494.IJ (R-264I)
EAST RALEIGH OUTER LOOP

SUMMARY OF AFFECTED PROPERTY OWNERS

| TRACT NO. | PROPERTY OWNER | ADDRESS | SITE NO. |
|-----------|---------------------------------------|---|-------------|
| 32 | TALMADGE E. POOLE | 3724 KEMP DR. KNIGHTDALE, NC 27545 | 10 R-2547BB |
| 33 | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 27611 | 10 R-2547BB |
| 34 | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 27611 | 10 R-2547BB |
| 35 | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 27611 | 10 R-2547BB |
| 36 | P.H. SIMMONS & ASSOCIATES, INC. | 1309 OLD MILBURNIE RD. RALEIGH, NC 27604 | 10 R-2547BB |
| 37 | P.H. SIMMONS & ASSOCIATES, INC. | 1309 OLD MILBURNIE RD. RALEIGH, NC 27604 | 10 R-2547BB |
| 38 | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 27611 | 10 R-2547BB |
| 39 | N.C.D.O.T. | P.O. BOX 2520I RALEIGH, NC 27611 | 10 R-2547BB |
| 40 | MYRICK, ROXIE W. & MARY LOU MURPHY | 310 HINTON ST. KNIGHTDALE, NC 27545 | 10 R-2547BB |
| | | | |
| | | | |

**NORTH CAROLINA
DEPARTMENT OF HIGHWAYS**

WAKE COUNTY
WBS 34494.JJ (R-264I)
EAST RALEIGH OUTER LOOP

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NORTH CAROLINA
DEPARTMENT OF HIGHWAYS

WAKE COUNTY
WBS 34494.JJ (R-264I)
EAST RALEIGH OUTER LOOP

R-2641
Wetland, Stream, and Buffer Impacts

| Site Information TIP Number | Permit Version | Wetland Impacts (ac) | | | Surface Water Impacts (ac) | | | Channel Impacts (ft) | | | Buffer Impacts (sq ft) | | |
|--|-------------------|----------------------|---------------------------|-------------------------------|----------------------------|-----------------------|-----------------|----------------------|---------------------|----------------------|------------------------|---------|------------|
| | | Fill In Wetlands | Temp. Fill in Wetlands | Mech. Cleaning in Wetlands | Excavation in Wetlands | Fill In Natural SW | Fill In Pond | Temp Fill in SW | Existing Channel | Relocated Channel | Enclosed Channel | Zone 1 | Zone 2 |
| R-2641 | 10/19/2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23,142 | 18,729 |
| | Current | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23,142 | 18,729 |
| | Change | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| R-2641 | 10/19/2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13,455 | 10,979 |
| | Current | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13,455 | 10,979 |
| | Change | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -13,455 | -10,979 |
| R-2641 | 10/19/2001 | 0.14 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8,396 | 5,597 |
| | Current | 0.14 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8,396 | 5,597 |
| | Change | -0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -8,396 | -5,597 |
| R-2641 | 10/19/2001 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| | Current | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| | Change | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41,440 | 29,815 |
| R-2641 | 10/19/2001 | 0.15 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| | Current | 0.15 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| | Change | -0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6,706 | 5,339 |
| R-2641 | 10/19/2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| | Current | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| | Change | 0.010 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 |
| R-2641 | 10/19/2001 | 0.56 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54,895 | 32,506 |
| | Current | 0.56 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 54,895 | 32,506 |
| | Change | -0.24 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -54,895 | -32,506 |
| R-2547BB | 10/19/2001 | 1.40 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35,197 | 23,357 |
| | Current | 1.40 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35,197 | 23,357 |
| | Change | 0.27 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35,197 | 23,357 |
| R-2547BB | 10/19/2001 | 1.038 | 0.000 | 0.099 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 |
| | Current | 1.038 | 0.000 | 0.099 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 |
| | Change | 0.20 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| Total Impacts | 10/19/2001 | 3.28 | 0.00 | 0.31 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 135,084 | 91,168 |
| | Current | 3.28 | 0.00 | 0.31 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 135,084 | 91,168 |
| | Change | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 |
| Total Change in Impacts (R-2547BB & R-2641) | | -0.22 | 0.03 | 0.21 | -0.15 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -28,599 | -14,897 |
| | | -0.16 | wetlands | | | 1.27 | ponds | | 0.00 | stream** | | -43,496 | buffers*** |
| R-2547BB | 10/19/2001 | 2.43 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35,197 | 23,357 |
| | Current | 2.43 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35,197 | 23,357 |
| | Change | 0.07 | 0.00 | 0.19 | -0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | -969 |
| R-2641 | 10/19/2001 | 0.85 | 0.00 | 0.09 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99,887 | 67,811 |
| | Current | 0.85 | 0.00 | 0.09 | 0.00 | 2.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99,887 | 67,811 |
| | Change | -0.56 | 0.00 | 0.02 | 0.05 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -71,288 | -53,883 |
| | Change | -0.29 | 0.00 | 0.02 | -0.03 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -28,599 | -13,928 |

*Site is bridged - impacts not included in calculations
 **Stream impact totals include streams requiring mitigation and those that do not require mitigation
 ***Buffer impact totals include all sites (including those under 0.33 ac that do not require mitigation)

R-2641

Wetland, Stream, and Buffer Mitigation

| Site Information | | | Wetlands (acres) | Streams (feet) | Buffers (sq feet) |
|----------------------|----------------|-------------------|---------------------|-------------------|----------------------|
| TIP Number | Site Number | Permit Version | | | |
| R-2641 | 2 | 10/19/2001 | 0.00 | 0 | 97,519 |
| | | Current | 0.00 | 0 | 97,519 |
| | | Change | 0.00 | 0 | 0 |
| R-2641 | 3 | 10/19/2001 | 0.00 | 0 | 56,846 |
| | | Current | 0.00 | 0 | 0 |
| | | Change | 0.00 | 0 | -56,846 |
| R-2641 | 4 | 10/19/2001 | 0.17 | 0 | 0 |
| | | Current | 0.14 | 0 | 0 |
| | | Change | -0.03 | 0 | 0 |
| R-2641 | 5 | 10/19/2001 | 0.00 | 0 | 0 |
| | | Current | 0.00 | 0 | 169,044 |
| | | Change | 0.00 | 0 | 169,044 |
| R-2641 | 5a | 10/19/2001 | 0.17 | 0 | 0 |
| | | Current | 0.14 | 0 | 0 |
| | | Change | -0.03 | 0 | 0 |
| R-2641 | 6* | 10/19/2001 | 0.00 | 0 | 0 |
| | | Current | 0.00 | 0 | 0 |
| | | Change | 0.00 | 0 | 0 |
| R-2641 | 7 | 10/19/2001 | 0.61 | 0 | 99,970 |
| | | Current | 0.36 | 0 | 0 |
| | | Change | -0.25 | 0 | -99,970 |
| R-2547BB | 9 | 10/19/2001 | 1.51 | 285 | 85,595 |
| | | Current | 1.39 | 449 | 58,218 |
| | | Change | -0.12 | 164 | -27,377 |
| R-2547BB | 10 | 10/19/2001 | 1.14 | 0 | 0 |
| | | Current | 1.41 | 0 | 0 |
| | | Change | 0.27 | 0 | 0 |
| Total Impacts | | 10/19/2001 | 3.59 | 285 | 339,930 |
| | | Current | 3.43 | 449 | 324,781 |
| | | Change | -0.16 | 164 | -15,150 |

*Site is bridged - no mitigation required

Wetland mitigation calculations include fill, excavation, and mechanized clearing

Stream calculations include only streams requiring mitigation

Buffer mitigation includes Zone 1 (3:1) & 2 (1.5:1) ratios, after subtracting wetlands within buffers