Appendix A

Project Information and Correspondence

Noise Ballot A-1
Ecosystem Enhancement Letter A-8
NCDENR Division of Environmental Health scoping comments (page 2 of 2) A-9
1958 RTP Map A-10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Research Triangle Park, NC 27711

RECEIVED
APR 24 2008
N.C. TURNPIKE AUTHORITY

OFFICE OF
ADMINISTRATION
AND RESOURCES
MANAGEMENT

Mr. Steven D. DeWitt, PE
Chief Engineer, North Carolina Turnpike Authority
1578 Mail Service Center
Raleigh, NC 27699-1578

Dear ~~Mr. DeWitt~~: Steve

On behalf of the Environmental Protection Agency-National Institute of Environmental Health Sciences (EPA-NIEHS), this letter serves to convey that we prefer–in principle--the noise barrier construction to mitigate noise impacts to the First Environments Early Learning Center.

As the documents enclosed with the Noise Barrier Ballot dated April 17, 2008, are preliminary and proposal in nature, our preference for a noise barrier presents a series of concerns and challenges in need of resolution to the EPA-NIEHS satisfaction. These issues were conveyed to Ms. Jennifer Harris in the enclosed electronic message from Luis R. Lluberas dated April 21, 2008.

As previously stated in our correspondence, we are concerned that the nature of the proposed design-build contract for this project may fail to capture or honor our agreements without adequate or specific language, commitments, or checks and balances conveyed/specified in the contract.

Should you have any further questions, please feel free to contact Luis R. Lluberas at 919-541-2659.

Sincerely,

Ben Scaggs

Ben Scaggs
Director

Enclosures

Luis Lluberas/RTP/USEPA/US
04/21/2008 02:34 PM

To triangleparkway@ncturnpike.org, jbissett@mulkeyinc.com
cc jennifer.harris@ncturnpike.org, merkle@niehs.nih.gov
bcc
Subject Proposed Noise Barrier for First Environments Early Learning Center

Dear Ms. Harris-

Thanks for taking my call Monday morning on this subject.

As discussed, we received the proposed Triangle Parkway's Traffic Noise Barrier Ballot dated April 17, 2008. As you know, the EPA-NIEHS has always supported in-principle the installation of a noise barrier as means to mitigate both noise and pollutant impacts to the child care center generated from the project and final opening of the roadway.

We intend to meet the NCTA's ballot suspense date of May 1, 2008. Unfortunately, the EPA-NIEHS has not received the noise report from which to determine the adequacy of the proposed noise barrier as represented. You may forward the report electronically to me. Furthermore, please clarify the following:

1. although we talked specifics of the noise barrier, we would like to see the proposed height, cut & fill throughout the noise barrier to include proposed break-aways;
2. can the proposed noise barrier be shifted closer to the roadway -and away from the child care facility- while preserving the existing vegetative cover?;
3. are the retention walls integrated with noise barrier(s) to reduce noise and pollutant dispersion? If, so, can they be shown?;
4. what type of vegetation will there be between the barrier and the roadway?;
5. what provisions are made to maintaining/retaining existing vegetation? (minimum clearance);
6. the child care facility is licensed for 188 children and 51 staff. Any cost benefit analysis for noise barrier shall use these receptor amounts/quantity;
7. lacking the noise analysis report, it is not clear whether the noise barrier design intent is for a 6 or 8 lane highway;
8. what architectural features of the barrier (esthetics, brick formliner) or other 'contact sensitive solutions' to include both sides of the noise barrier are contemplated?; and
9. what is the proposed time-table for the noise barrier construction within the project?;

I am scheduled to meet with the senior leadership team tomorrow to discuss your ballot in an attempt to have the document returned to you by May 1, 2008. I appreciate your assistance and look forward to your clarifications.

Hope to hear from you soon.

R//
Luis R. Lluberas
Acting Director, Health, Safety, Sustainability and Development Staff
Office of Administration and Resource Management
USEPA, RTP-NC
Mail Drop: C-604-01
Durham, NC 27711
(919)541-2659 (voice)
(919)824-1776 (mobile)
(919)541-0659 (fax)

STATE OF NORTH CAROLINA
TURNPIKE AUTHORITY

MICHAEL F. EASLEY
GOVERNOR

1578 MAIL SERVICE CENTER, RALEIGH, N.C. 27699-1578

DAVID W. JOYNER
EXECUTIVE DIRECTOR

NOISE BARRIER BALLOT
Triangle Parkway

☑ ..... I prefer the noise barrier construction.*
* see attached comments BS 4/23/08

☐ ..... I do not prefer the noise barrier construction.

☐ ..... I prefer an alternative to the noise barrier, such as plantings with shrubbery and small trees.

Signature of authorized official	Title	Agency	Date
Ben Suggs	Dir Admin	EPA	4-23-8

Clearly mark your selection within the corresponding box. Return your original ballot in the stamped, self-addressed envelope provided in your ballot package. If you misplace the provided envelope, please mail your original ballot, postmarked by May 1, 2008, to:

Ms. Jennifer Harris
North Carolina Turnpike Authority
1578 Mail Service Center
Raleigh, NC 27699-1578

PLEASE NOTE: Ballot must be postmarked by May 1, 2008 or it will not be counted.

Harris, Jennifer

From: Harris, Jennifer
Sent: Tuesday, April 22, 2008 11:01 AM
To: Lluberas.Luis@epamail.epa.gov; triangleparkway; jbissett,
Cc: merkle@niehs.nih.gov
Subject: RE: Proposed Noise Barrier for First Environments Early Learning Center

Attachments: Figure for EPA.pdf

Figure for EPA.pdf
(27 MB)

Luis

Thank you for your follow-up email regarding the proposed noise wall for Triangle Parkway (STIP NO. U-4763 B) at the FEELC. Please remember that everything regarding the location of the wall from the road, the height of the wall and the length of the wall could change based on the final designs prepared by the Design/Build team. I would like to offer the following in response to your questions:

- I just sent you the Design Noise Report electronically via a file transfer system for your information. You will be sent an email notification with a link and username and password to access the report.

- Attached is a figure that shows where the noise wall, discussed in the Design Noise Report, transitions from a fill section to a cut section to the retaining wall section.

- As discussed previously, the current design for the noise wall ranges from 10 feet to 20 feet in height. The average height is 16.8 feet. The current design does not have any breakaways or overlapping of the wall. It is one continuous wall; however, it is anticipated that due to the length of the wall, approximately two breaks will be provided for maintenance access behind the noise wall. Any breaks that are provided would have overlapping wall sections to provide continuous noise abatement.

- The current design has the south end of the wall further from the road because of a large drainage ditch that is included in the preliminarily design along this section of Triangle Parkway. Also, since the road is in a cut section, the noise wall will be constructed at the top of the slope to maximize noise abatement.

- The current design does not integrate the noise wall with the retaining wall, but the Design/Build team may choose to construct the walls as one to reduce costs.

- As previously discussed, there will be no clearing of trees or vegetation on federal property. In addition, the NCTA has special provisions in the contract with the Design/Build team requiring them to minimize the cutting of trees and vegetation along the area adjacent to the federal property. However, the Design/Build team will clear an adequate area in order to construct the wall and the appropriate erosion control and drainage measures.

- As discussed in the Design Noise Report, we used the 188 children as part of the formula to determine if the wall was reasonable (cost effective) in accordance with NCDOT's Traffic Noise Abatement Policy. The wall has been determined to be feasible and reasonable and will be constructed provided the property owner approves. The additional staff would have been information to consider adding to the equation if the wall had been determined to not be reasonable due to costs.

- The location of the wall and the typical section utilizing the 46 foot median are designed with the understanding that eight lanes may be needed in the future (i.e. the additional two lanes would be constructed in the median). An additional traffic noise analysis will be conducted in the future prior to constructing any additional lanes.

- There are aesthetic parameters that will be applied throughout the Triangle Parkway project. Any aesthetic treatments applied to the noise wall would be on the traffic side of the proposed noise wall adjacent to the federal property, unless the property owner is willing to pay for the betterment cost to have the aesthetic treatment on the opposite side as well.

- The construction sequencing will be at the discretion of the contractor. Therefore, we cannot predict when the wall would be constructed during the construction sequencing. Historically, the noise walls are constructed once the area has reached final grade.

I hope this information has adequately answered your questions. Please advise if you need any additional information in order for USEPA to complete the noise ballot.

Regards,
Jennifer

****

Jennifer H. Harris, P.E.
North Carolina Turnpike Authority
5400 Glenwood Avenue, Suite 400
Raleigh, North Carolina 27612
Tel (919) 571-3000
Dir (919) 571-3004
Fax (919) 571-3015

-----Original Message-----
From: Lluberas.Luis@epamail.epa.gov [mailto:Lluberas.Luis@epamail.epa.gov]
Sent: Monday, April 21, 2008 2:35 PM
To: triangleparkway; jbissett,
Cc: Harris, Jennifer; merkle@niehs.nih.gov
Subject: Proposed Noise Barrier for First Environments Early Learning Center

Dear Ms. Harris-

Thanks for taking my call Monday morning on this subject.

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sides of the noise barrier are contemplated?; and
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within the project?;

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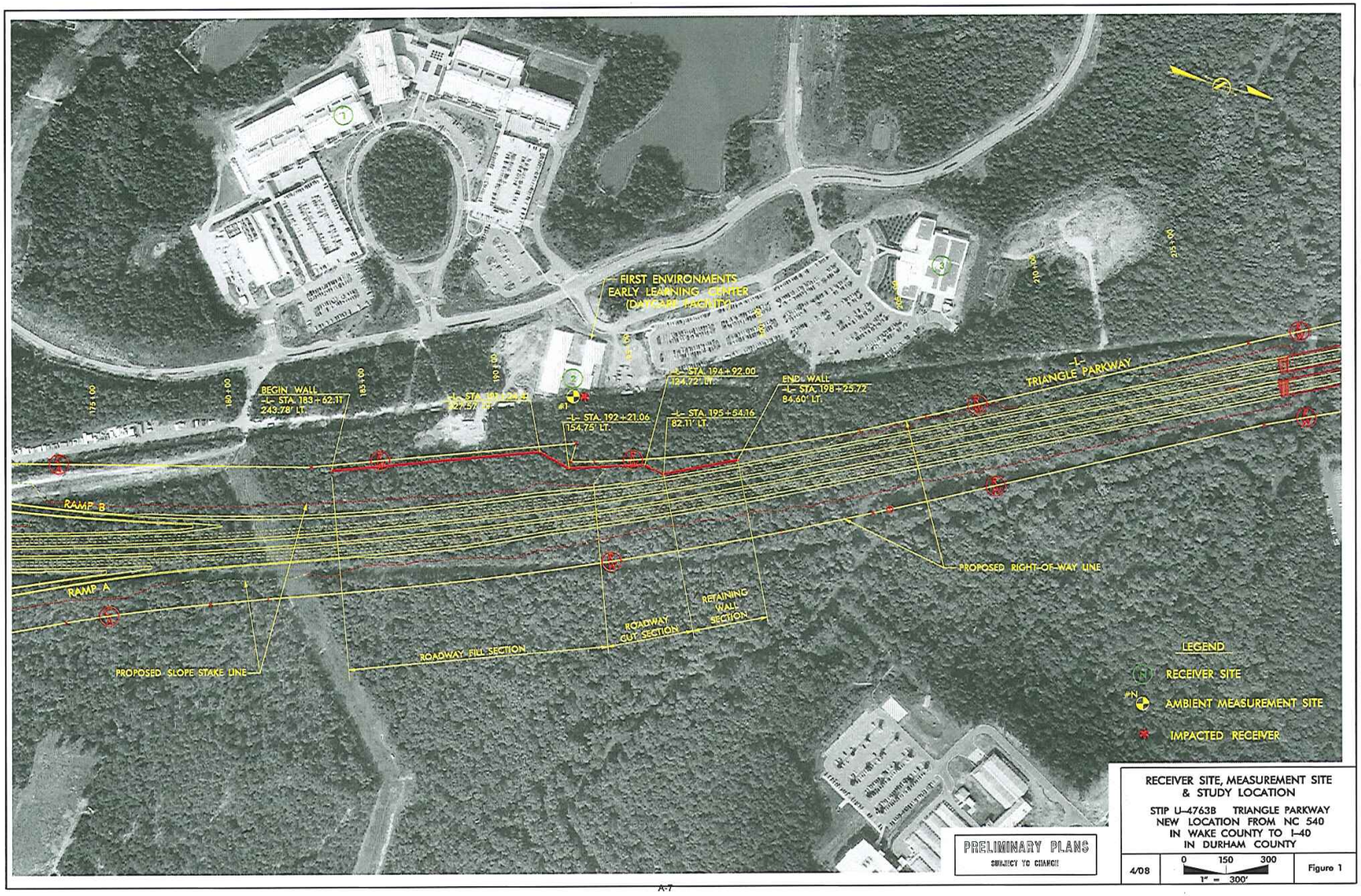
Hope to hear from you soon.

R//
Luis R. Lluberas
Acting Director, Health, Safety, Sustainability and Development Staff Office of Administration and Resource Management
USEPA, RTP-NC Mail Drop: C-604-01 Durham, NC 27711
(919)541-2659 (voice)
(919)824-1776 (mobile)
(919)541-0659 (fax)


FIRST ENVIRONMENTS
EARLY LEARNING CENTER
(DAYCARE FACILITY)
BEGIN WALL
-L- STA. 183+62.11
243.78' LT.
-L- STA. 192+21.06
154.75' LT.
-L- STA. 194+92.00
124.72' LT.
-L- STA. 195+54.16
82.11' LT.
END WALL
-L- STA. 198+25.72
84.60' LT.
TRIANGLE PARKWAY
RAMP B
RAMP A
PROPOSED RIGHT-OF-WAY LINE
PROPOSED SLOPE STAKE LINE
ROADWAY FILL SECTION
ROADWAY CUT SECTION
RETAINING WALL SECTION
LEGEND
RECEIVER SITE
AMBIENT MEASUREMENT SITE
IMPACTED RECEIVER
PRELIMINARY PLANS
SUBJECT TO CHANGE
RECEIVER SITE, MEASUREMENT SITE
& STUDY LOCATION
STIP U-4763B TRIANGLE PARKWAY
NEW LOCATION FROM NC 540
IN WAKE COUNTY TO I-40
IN DURHAM COUNTY
4/08
0 150 300
1" = 300'
Figure 1

Ecosystem Enhancement PROGRAM

April 16, 2008

Mr. Steven D. DeWitt, P.E., Chief Engineer
North Carolina Turnpike Authority
1578 Mail Service Center
Raleigh, NC 27699-1578

Expiration of Acceptance: October 16, 2008

Project: **TIP U-4763B, Triangle Parkway** Counties: **Durham/Wake**

The purpose of this letter is to notify you that the North Carolina Ecosystem Enhancement Program (NCEEP) is willing to accept payment for impacts associated with the above referenced project. Please note that this decision does not assure that the payment will be approved by the permit issuing agencies as mitigation for project impacts. It is the responsibility of the applicant to contact these agencies to determine if payment to the NCEEP will be approved.

This acceptance is valid for six months from the date of this letter and is not transferable. **If we have not received a copy of the issued 404 Permit/401 Certification within this time frame, this acceptance will expire.** It is the applicant's responsibility to send copies of the permits to NCEEP. Once NCEEP receives a copy of the permit(s) an invoice will be issued based on the required mitigation in that permit and payment must be made prior to conducting the authorized work. The amount of the In Lieu Fee to be paid to NCEEP by an applicant is calculated based upon the Fee Schedule and policies listed at www.nceep.net.

Based on the information supplied by you the impacts that may require compensatory mitigation are summarized in the following table.

Cape Fear 03030002	Stream (feet)			Wetlands (acres)			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts	0	0	3,718	1.353	0.38	0	0	0
Credits	0	0	7,436	2.71	0.45	0	0	0

Upon receipt of payment, EEP will take responsibility for providing the compensatory mitigation. If the regulatory agencies require mitigation credits greater than indicated above, and the applicant wants NCEEP to be responsible for the additional mitigation, the applicant will need to submit a mitigation request to NCEEP for approval prior to permit issuance. The mitigation will be performed in accordance with the Memorandum of Understanding between the N. C. Department of Environment and Natural Resources and the U. S. Army Corps of Engineers dated November 4, 1998.

If you have any questions or need additional information, please contact Beth Harmon at (919) 715-1929.

Sincerely,

James B. Stanfill for

William D. Gilmore, PE
Director

cc: Brian Wrenn, NCDWQ Wetlands/401 Unit
Eric Alsmeyer, USACE-Raleigh
Cindy Carr, Mulkey Engineers & Consultants
File

Restoring... Enhancing... Protecting Our State

NCDENR

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

JAN 3 1 2006

Project Number
06-0204
County
Durham/Wake

Inter-Agency Project Review Response

Project Name **NC Turnpike Authority** Type of Project **Project development for the proposed Triangle Parkway in Durham & Wake counties.**

Comments provided by:

- ☐ Regional Program Person
- ☒ Regional Supervisor for Public Water Supply Section
- ☐ Central Office program person

Name **Michael Douglas-Raleigh RO** Date **01/20/06**

Telephone number: 919-791-4297

Program within Division of Environmental Health:

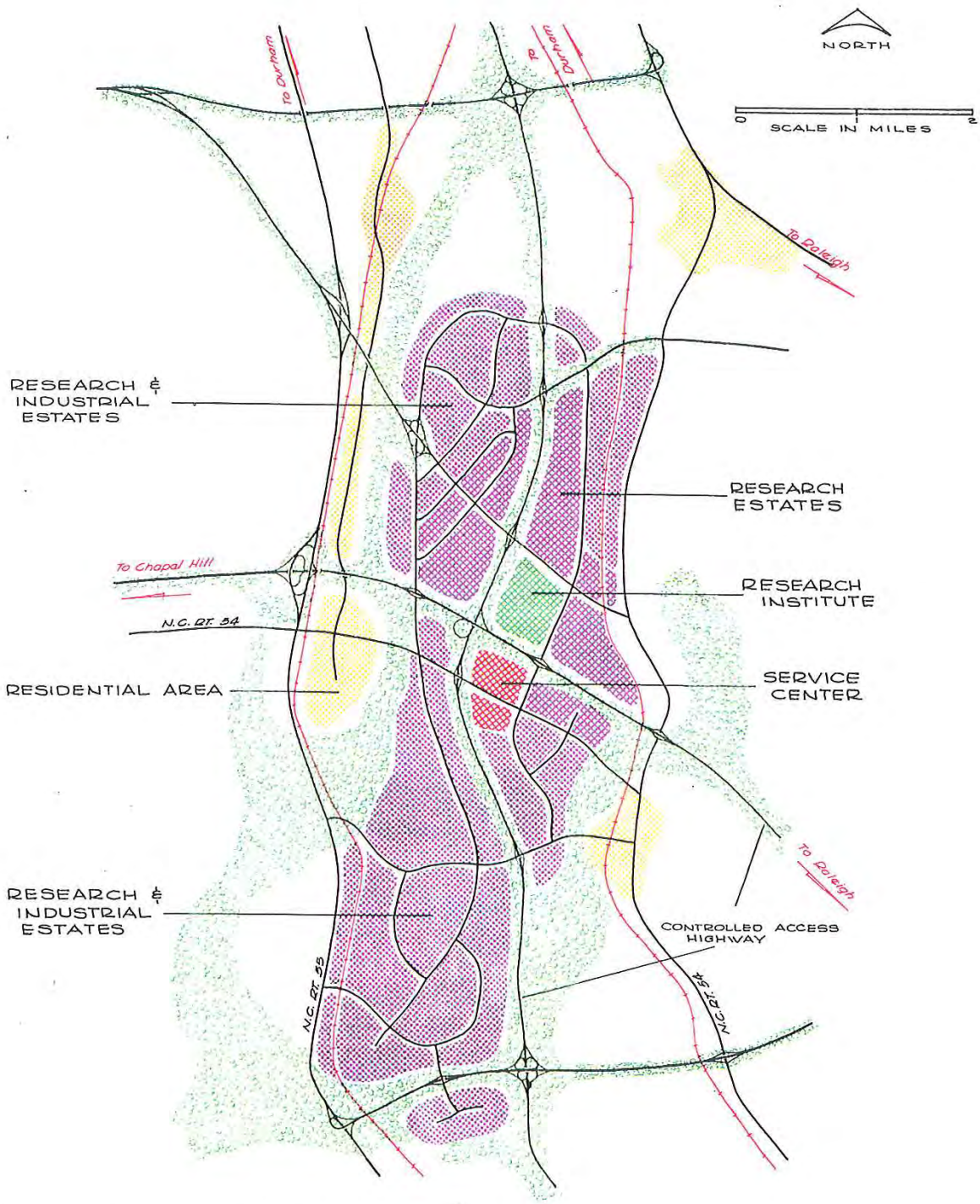
- ☑ Public Water Supply
- ☐ Other, Name of Program: _____

RECEIVED JAN 24 2006 DENR RALEIGH REGIONAL OFFICE

Response (check all applicable):

- ☐ No objection to project as proposed
- ☐ No comment
- ☑ Insufficient information to complete review
- ☐ Comments attached
- ☐ See comments below

Return to:
Public Water Supply Section
Environmental Review Coordinator
for the
Division of Environmental Health



preliminary sketch plan

RESEARCH TRIANGLE PARK and ENVIRONS

PREPARED BY 1958
CITY & TOWN PLANNING ASSOCIATES
CHAPEL HILL, NORTH CAROLINA