



US Army Corps
Of Engineers
Wilmington District

PUBLIC NOTICE

Issue Date: February 10, 2006
Comment Deadline: March 13, 2006
Corps Action ID #: 200300998

The Wilmington District, Corps of Engineers (Corps) has received an application from **Moore County Airport Authority** seeking Department of the Army authorization to impact **1.87 acres of jurisdictional wetlands and 420 linear feet of stream channel** associated with **relocation and realignment of NC 22 and SR 1843 (Airport Road) at the Moore County Airport facility in Moore County, North Carolina.**

Specific plans and location information are described below and shown on the attached plans. This Public Notice and all attached plans are also available on the Wilmington District Web Site at www.saw.usace.army.mil/wetlands

Applicant: **Moore County Airport Authority**
P.O. Drawer 5809
Pinehurst, NC 28374

AGENT (if applicable): **Mulkey, Inc.**
6750 Tryon Road
Cary, NC 27511

Authority

The Corps will evaluate this application and render a decision whether to issue, conditionally issue, or deny the proposed work pursuant to applicable procedures under Section 404 of the Clean Water Act (33 U.S.C. 1344)

Location

The proposed roadway realignment project is located north of Southern Pines, south of Carthage, and southwest of the existing Moore County Airport facility in Moore County, North Carolina. The proposed project is located in adjacent wetlands and unnamed tributaries that are hydrologically connected to Juniper Branch or Mills Creek, which drains to Nicks Creek, Little River and then to the Cape Fear River, a navigable waterway. The project is more specifically located at Latitude 35.2309 N and Longitude 79.3971 W.

Existing Site Conditions

The project is located within the Cape Fear River subbasin 03-06-14 and USGS 8-digit hydrological unit 03030004. The Biotic resources surrounding the project area are indicative of moderately developed urban communities. Land use in the area is characterized by low density residential; small commercial development; and large tracts of undeveloped forested land, some of which is managed for timber production. The dominant communities in the area consist of palustrine saturated forest, fallow/open fields; mixed hardwood-pine forest; and man-dominated areas.

A disturbed palustrine needle-leaved evergreen saturated forest wetland area is located to the southeast of the SR 1843 and NC 22 intersection. The site is forested with young loblolly pine (*Pinus taeda*) with an understory of alder (*Alnus serrulata*), eastern false-willow (*Baccharis halimifolia*), and southern bayberry (*Myrica cerifera*). Herbaceous species include bluestems (*Andropogon* spp.), slender rush (*Juncus tenuis*), northern dewberry (*Rhus flagellaris*), netted chain-fern (*Woodwardia areolata*), and beak rushes (*Rhynchospora* spp.). An unnamed tributary to Mill Creek originates in this wetland system and drains in a southerly direction to Warrior Lake, an impoundment on Mill Creek.

An old pond site is located opposite the entrance to Warrior Woods on NC 22. This area is dominated by tulip popular (*Liriodendron tulipifera*) with an open understory of red maple (*Acer rubrum*) and sweetbay (*Magnolia virginiana*) with cinnamon fern (*Osmunda cinnamomea*) dominating the herbaceous layer.

A pulustrine needle-leaved evergreen saturated forest and a broad-leaved deciduous saturated forest wetland, which are part of a larger wetland system, are located to the west of NC 22 and the Moore County Airport. An unnamed tributary to Juniper Branch originates in this wetland system and drains westerly to Juniper Branch. This wetland is dominated by pond pine (*Pinus serotina*) and tulip popular with a dense understory of red maple, titi (*Cyrilla racemiflora*), fetterbush (*Lyonia lucida*), sweetbay, red chokeberry (*Sorbus abruptifolia*), and laurel-leaved greenbrier (*Smilax laurifolia*).

The project corridor southwest of the existing SR 1843 and NC 22 intersection is mostly residential development and agricultural land. The Sandhills Community College is located just west of this area. The overstory consists mainly of second-growth longleaf pine (*Pinus palustris*) and a few scattered loblolly pines, with Scrub oaks (*Quercus* spp.), loblolly pine and long-leaf pine saplings occurring in the understory. Manicured lawns and an open field are also located within this area.

The project corridor northwest of the existing SR 1843 and NC 22 intersection is private land with second-growth long-leaf pine and an understory of blackjack oaks (*Q. marilandica*) and turkey oaks (*Q. laevis*) with a sparse ground cover of Carolina wiregrass (*Aristida stricta*). Depressions draining the upland area is covered with an overstory of pond pine and a dense understory of fetterbush, sweet gallberry (*Ilex coriacea*), laurel-leaved greenbrier and switch cane (*Arundinaria tecta*). Residential mobile homes. Three small man-made ponds, fallow fields and a portion of the Forest Creek Golf Club are also found in this quadrant of the intersection.

Warrior Woods residential community and the Carolina Golf Community are located southeast of the SR 1843 and NC 22 intersection. Forested areas have an overstory of longleaf pine and a moderate to dense understory of turkey oak with a Carolina wiregrass ground cover.

Applicant's Stated Purpose

The purpose of the proposed roadway realignment is to bring the Moore County Airport into compliance with the current Federal Aviation Administration's (FAA) safety criteria, improving safety for aviation and vehicular traffic in the airport vicinity. A full description of the FAA regulations governing airport safety standards including *FAA Advisory Circular 150/5300-13, "Airport Design" (Airport Design AC); Federal Aviation Regulations (FAR) Part 77, "Objects Affecting Navigable Airspace;"* and *"United States Standards for Terminal Instrument Procedures" (TERPS)* can be found in an Environmental Assessment (EA) prepared for this project dated December 3, 1999 or at the FAA Web Site, www.faa.gov/regulations_polices. A copy of FAA's Environmental Assessment can be viewed at the Moore County Airport Office or the U.S. Army Corps of Engineers Wilmington Field Office. At present, there is a public safety concern for aviation and vehicular traffic due to the close proximity of the intersection to the end of the runway. In the area of the intersection, both roads currently violate the FAA clearance requirements for the runway safety area and runway object free area and NC 22 violates the inner-approach obstacle free zone.

Project Description

The project would involve the relocation of the intersection of NC highway 22 and SR 1843 (Airport Road). The relocation will also require that a new entrance roadway to the airport facility be constructed on new alignment. The project proposes to permanently impact 1.46 acres of jurisdictional forested wetlands and 0.05 acre of an open water pond. In addition, 0.41 acre of forested wetlands will be mechanically cleared for permanent drainage easements and 420 linear feet of intermittent stream channel will be impacted by the proposed project.

The applicant proposes to mitigate for the unavoidable impacts to the wetlands and stream channels by utilizing the North Carolina Ecosystem Enhancement program (NCEEP). In a letter dated July 7, 2005, The NCEEP indicated that they would accept responsibility for providing wetland and stream channel mitigation up to a 2:1 ratio.

Other Required Authorizations

This notice and all applicable application materials are being forwarded to the appropriate State agencies for review. The Corps will generally not make a final permit decision until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act (PL 92-500). The receipt of the application and this public notice in the NCDWQ Central Office in Raleigh serves as application to the NCDWQ for certification. A waiver will be deemed to occur if the NCDWQ fails to act on this request for certification within sixty days of the date of the receipt of this notice in the NCDWQ Central Office. Additional information regarding the Clean Water Act certification may be reviewed at

the NCDWQ Central Office, 401 Transportation Permitting Unit, 2321 Crabtree Boulevard, Raleigh, North Carolina 27604-2260. All persons desiring to make comments regarding the application for certification under Section 401 of the Clean Water Act should do so in writing delivered to the North Carolina Division of Water Quality (NCDWQ), 1650 Mail Service Center, Raleigh, North Carolina 27699-1650 Attention: Mr. John Hennessy by March 13, 2006.

Cultural Resources

The Corps has consulted the latest published version of the National Register of Historic Places and is not aware that any registered properties, or properties listed as being eligible for inclusion therein are located within the project area or will be affected by the proposed work. Presently, unknown archeological, scientific, prehistoric, or historical data may be located within the project area and/or could be affected by the proposed work.

Endangered Species

The Corps has reviewed the project area, examined all information provided by the applicant and consulted the latest North Carolina Natural Heritage Database. Based on available information, the Corps has determined pursuant to the Endangered Species Act of 1973 (ESA), that the proposed project may affect federally listed endangered or threatened species or their formally designated critical habitat. A Biological assessment (BA), dated March 17, 2005, was prepared for this project and reviewed by the U.S. Fish and Wildlife Service (USFWS) under the provisions of Section 7 of the Endangered Species Act (ESA) of 1973, as amended. The BA document addressed potential impacts from the proposed project construction on the following federally-listed species for Moore County: red-cockaded woodpecker (RCW) (*Picoides borealis*); bald eagle (*Haliaeetus leucocephalus*); Cape Fear Shiner (*Notropis mekistocholas*); Saint Francis' satyr (*Neonympha mitchellii francisci*); American Chaffseed (*Schwalbea Americana*); rough-leaved loosestrife (*Lysimachia asperulifolia*); and Michaux's sumac (*Rhus michauxii*). In a letter dated September 2, 2005 the USFWS concurred with the determination that the proposed project will affect, but is not likely to adversely affect the RCW and will have no effect on the other federally-listed species for Moore County.

Evaluation

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit that reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values (in accordance with Executive Order 11988), land use, navigation, shoreline 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 discharge of dredged or fill materials in waters of the United States, the evaluation of the

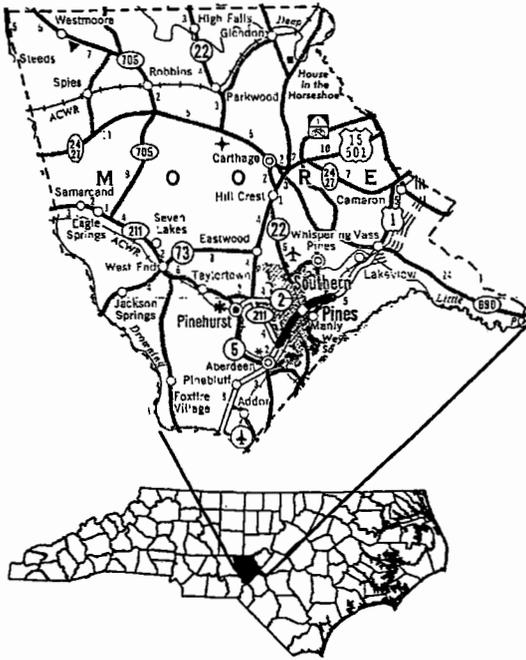
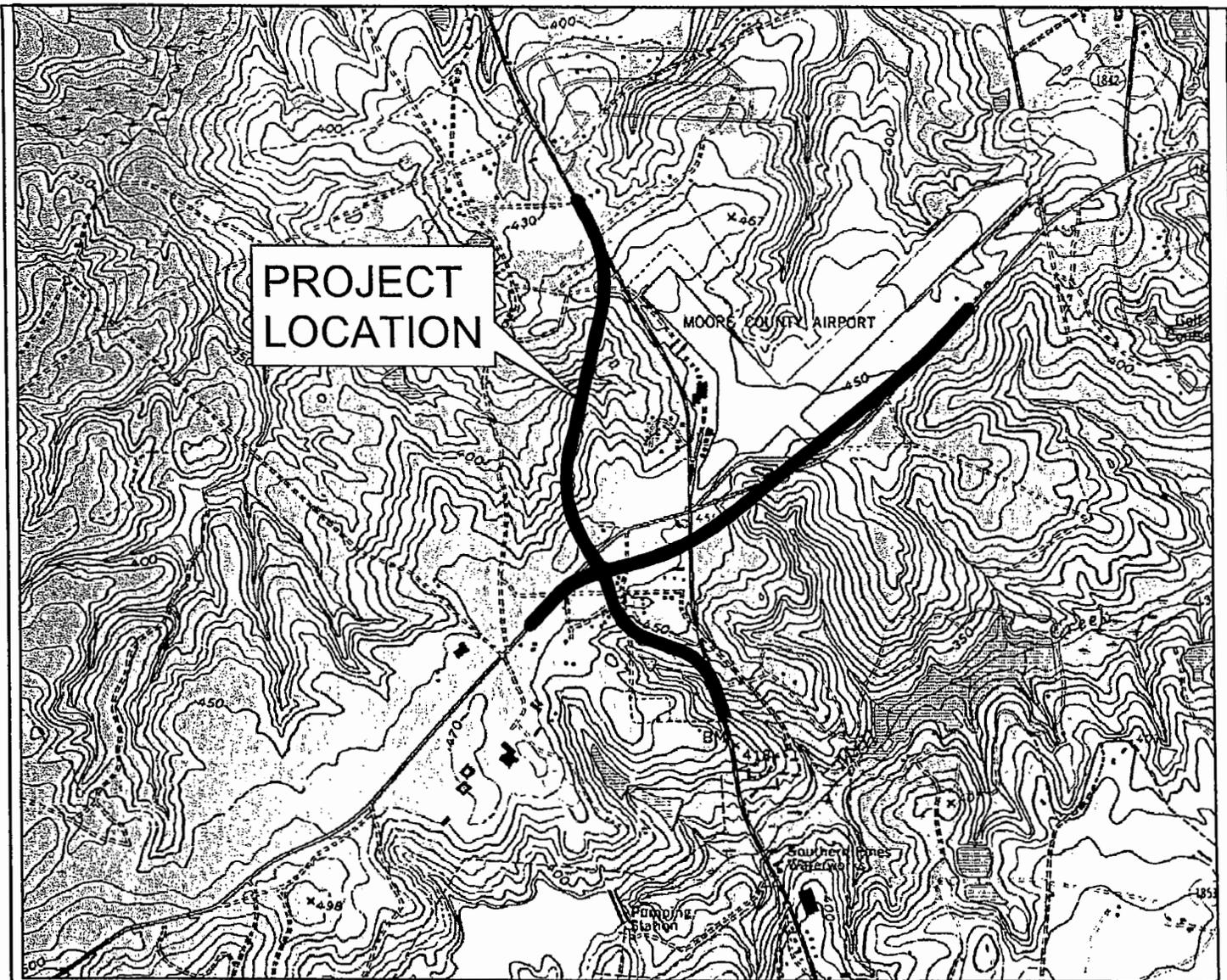
impact of the activity on the public interest will include application of the Environmental Protection Agency's 404(b)(1) guidelines.

Commenting Information

The Corps of Engineers is soliciting comments from the public; Federal, State and local agencies and officials, including any consolidate State Viewpoint or written position of the Governor; 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 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 the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing shall be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

Written comments pertinent to the proposed work, as outlined above, will be received by the Corps of Engineers, Wilmington District, until 5pm, March 13, 2006. Comments should be submitted to Mr. Richard K. Spencer, Wilmington Regulatory Field Office, P.O. Box 1890, Wilmington, North Carolina 28402-1890.



Prepared For		MOORE COUNTY AIRPORT AUTHORITY
	Relocation of NC 22 And SR 1843 Intersection & Roadway Realignment Moore County, NC	
PROJECT VICINITY		
<p>Miles</p>		
FIGURE 1		

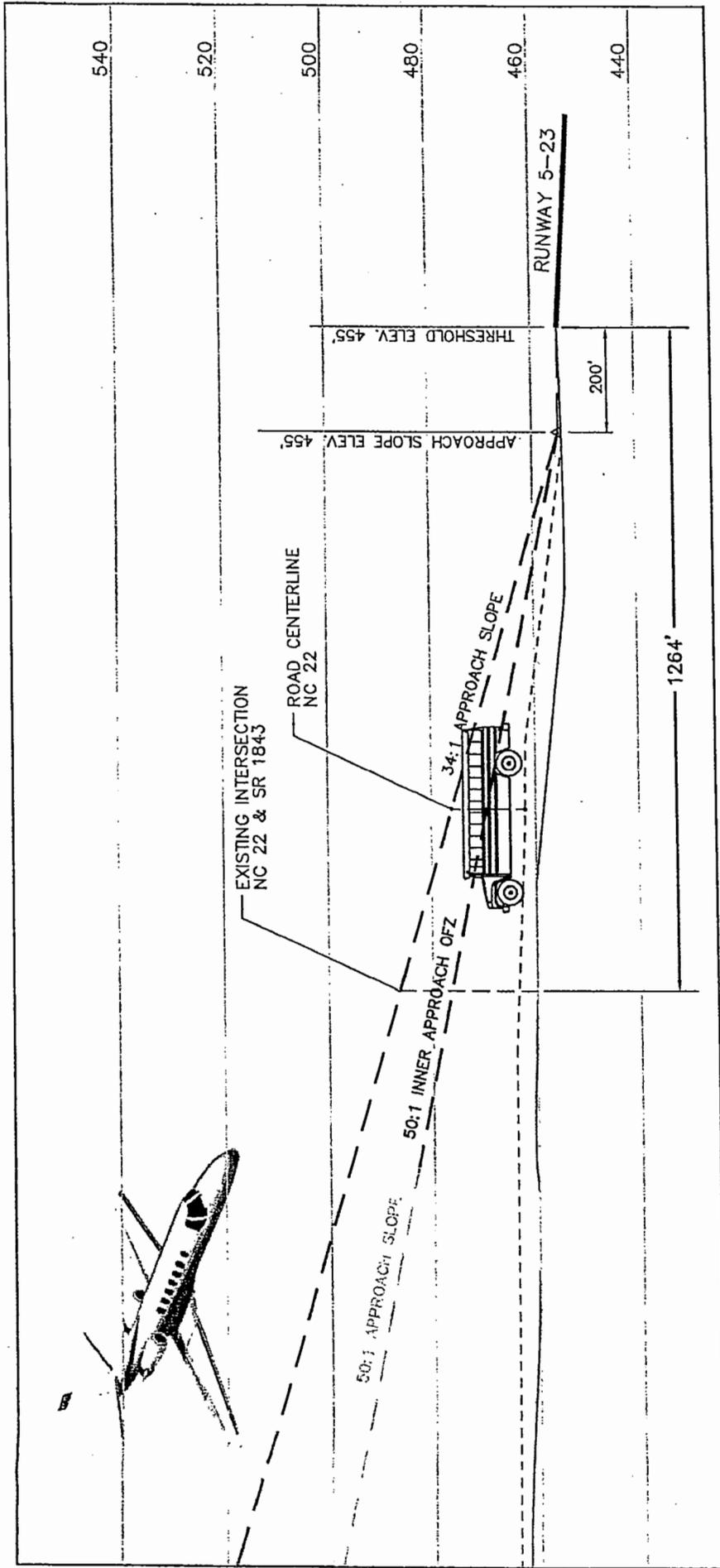


Figure No. **2**

EXISTING CONDITIONS
Relocation of NC 22 and Realignment of SR 1843 (Airport Road)
Moore County, North Carolina

- FAA Requirements - Object Clearing Criteria Profile View:
 - - - - - TERPS Approach Slope
 - - - - - Inner Approach Object Free Zone (OFZ)
 - - - - - FAR Part 77 Approach Slope

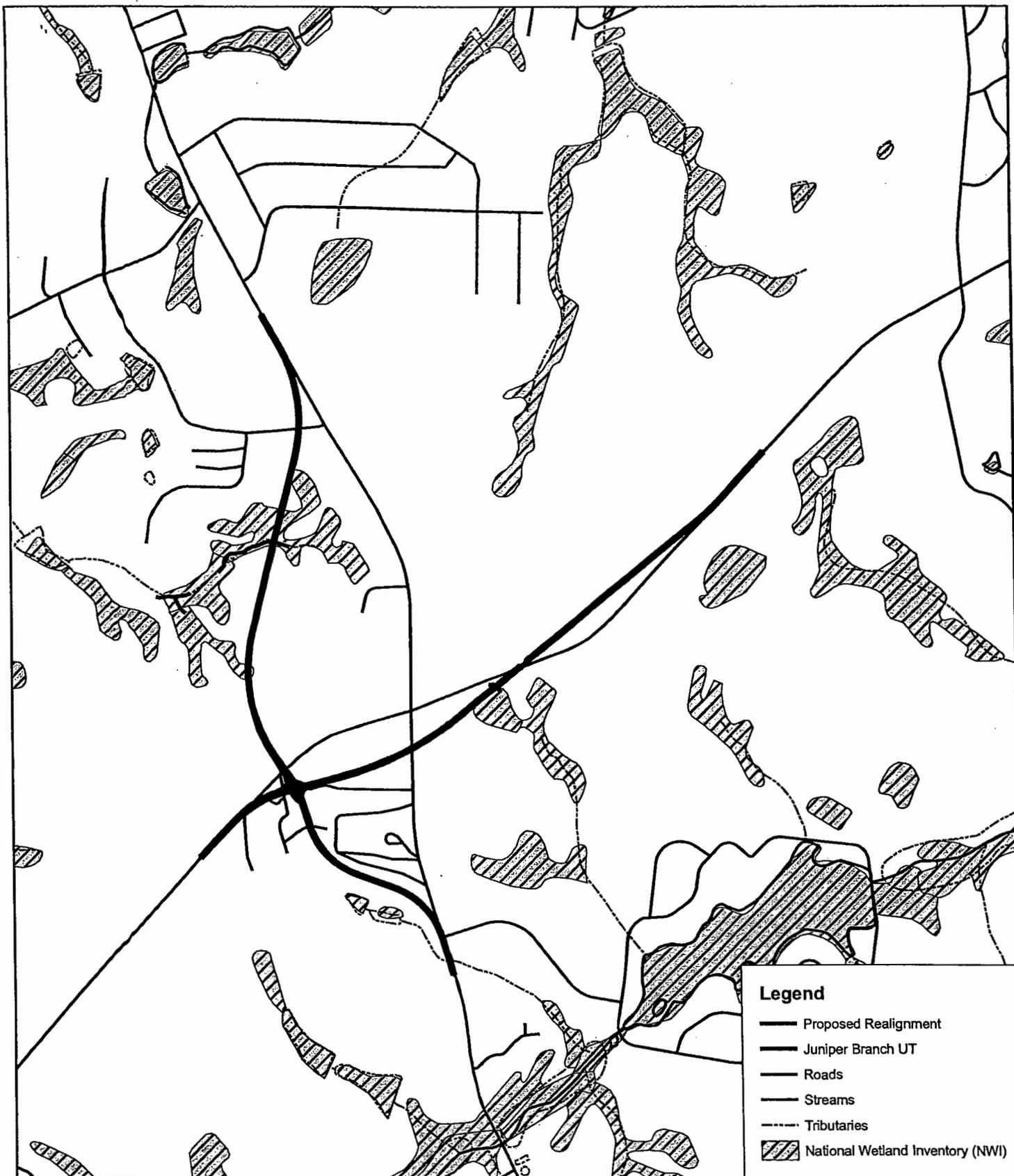
Not to Scale

Prepared For:



MULKEY
 ENGINEERS & CONSULTANTS





Legend

-  Proposed Realignment
-  Juniper Branch UT
-  Roads
-  Streams
-  Tributaries
-  National Wetland Inventory (NWI)



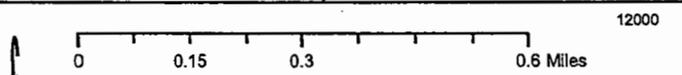
SURFACE WATER RESOURCES
Relocation of NC 22 and
Realignment of SR 1843 (Airport Road)
Moore County, North Carolina

Figure No.

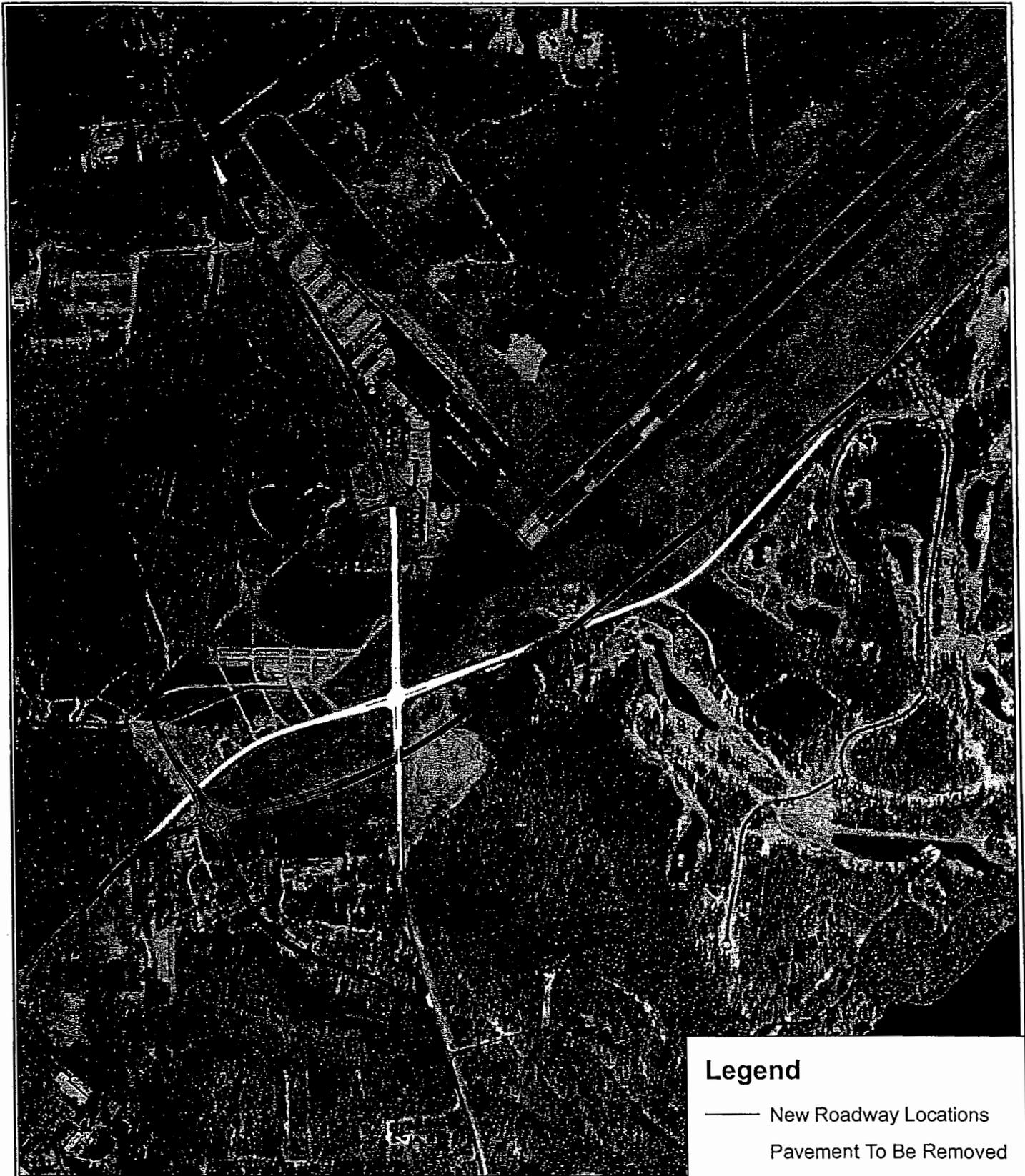
3



Prepared For:



Data Source: NCDOT 1998 Photogrammetry



Legend

- New Roadway Locations
- - - Pavement To Be Removed



LAND USE AERIAL PHOTOGRAPHY
 Relocation of NC 22 and SR 1843 Intersection and Roadway Realignment
 Moore County, North Carolina

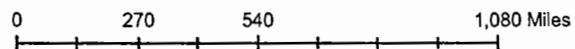
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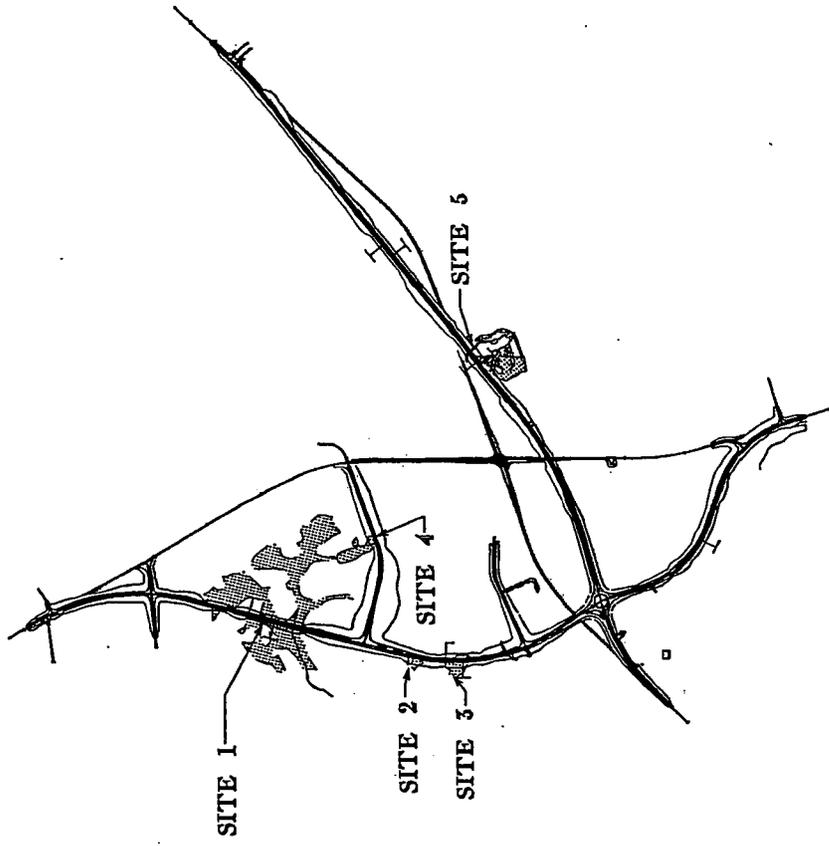


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Aerial Photography Source: NCDOT Photogrammetry, 1998

4



MOORE COUNTY

NC 22 AND SR 1843
RELOCATION

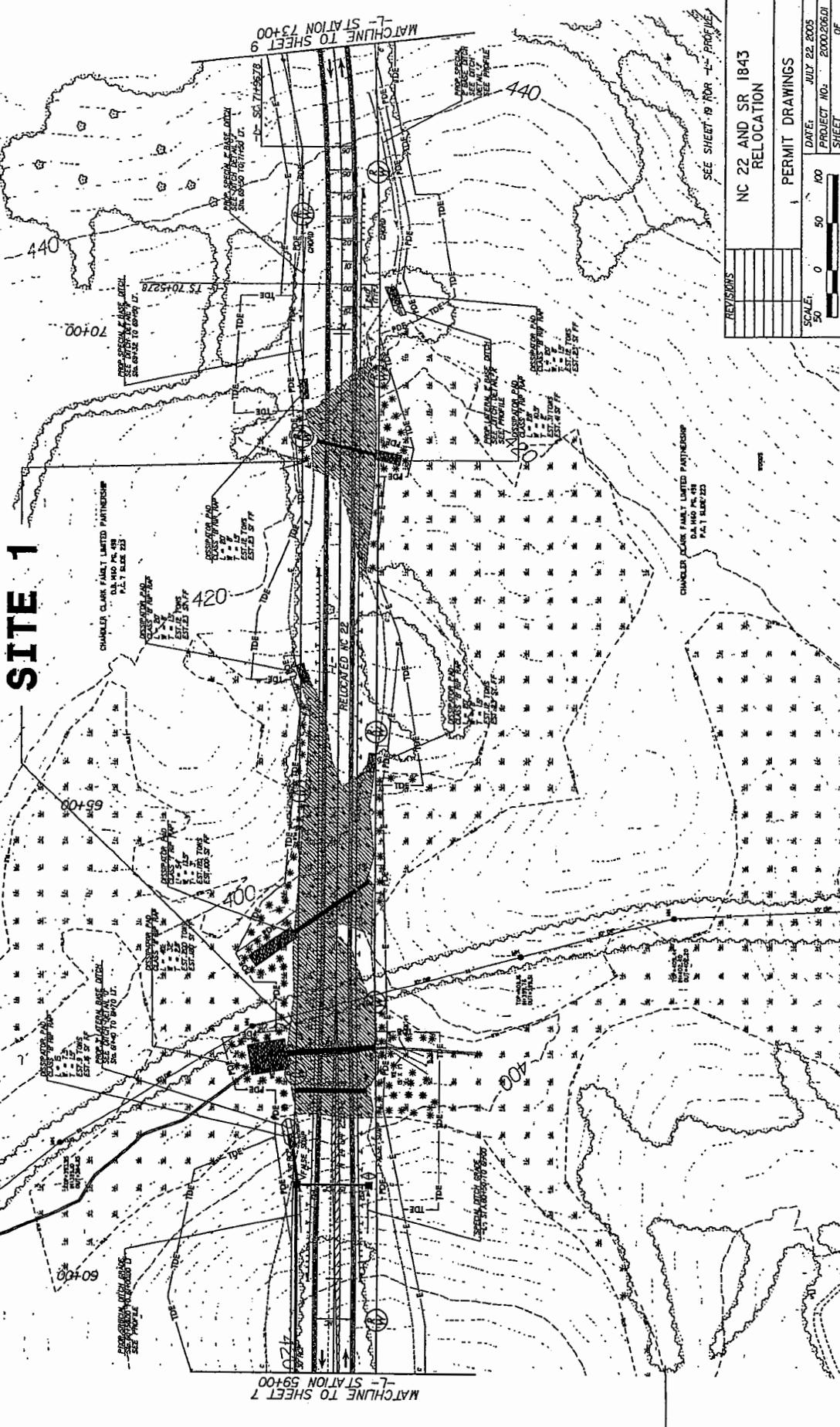
SITE MAP

PROJECT REFERENCE NO. SHEET NO.
 A.P. NO. 3-21-003-11 3
 REVISIONS FORWARDED NUMBER FORWARDED

MULKEY
 ENGINEERS
 1000 W. 10TH ST.
 WASHINGTON, D.C. 20004

ENGLISH

SITE 1



P.S. = 71.40372
 O.S. = 7.18733
 D. = 3.47227
 L. = 1033.67
 R. = 5366.27
 S. = 600.00
 S. = 1000.00

- DENOTES MECHANIZED CLEARING
- DENOTES FILL IN WETLAND
- DENOTES FILL IN SURFACE WATER

NO.	DATE	DESCRIPTION

NC 22 AND SR 1843
 RELOCATION

PERMIT DRAWINGS

SCALE: 1" = 50'
 DATE: JULY 22 2005
 PROJECT NO. 200020601
 SHEET 3 OF 3

MATCHLINE TO SHEET 7 -L- STATION 59+00

MATCHLINE TO SHEET 9 -L- STATION 73+00

REVISIONS

272.0
 411.0

PROJECT REFERENCE NO. SHEET NO.
 JULY 22, 2005
 ADVANCE CONTRACT NUMBER PERMIT DEDUCT

MULHKEY
 ENGINEERS
 1000 W. 10TH ST. SUITE 100
 WILMINGTON, NC 28401
 (910) 762-1111

ENGLISH

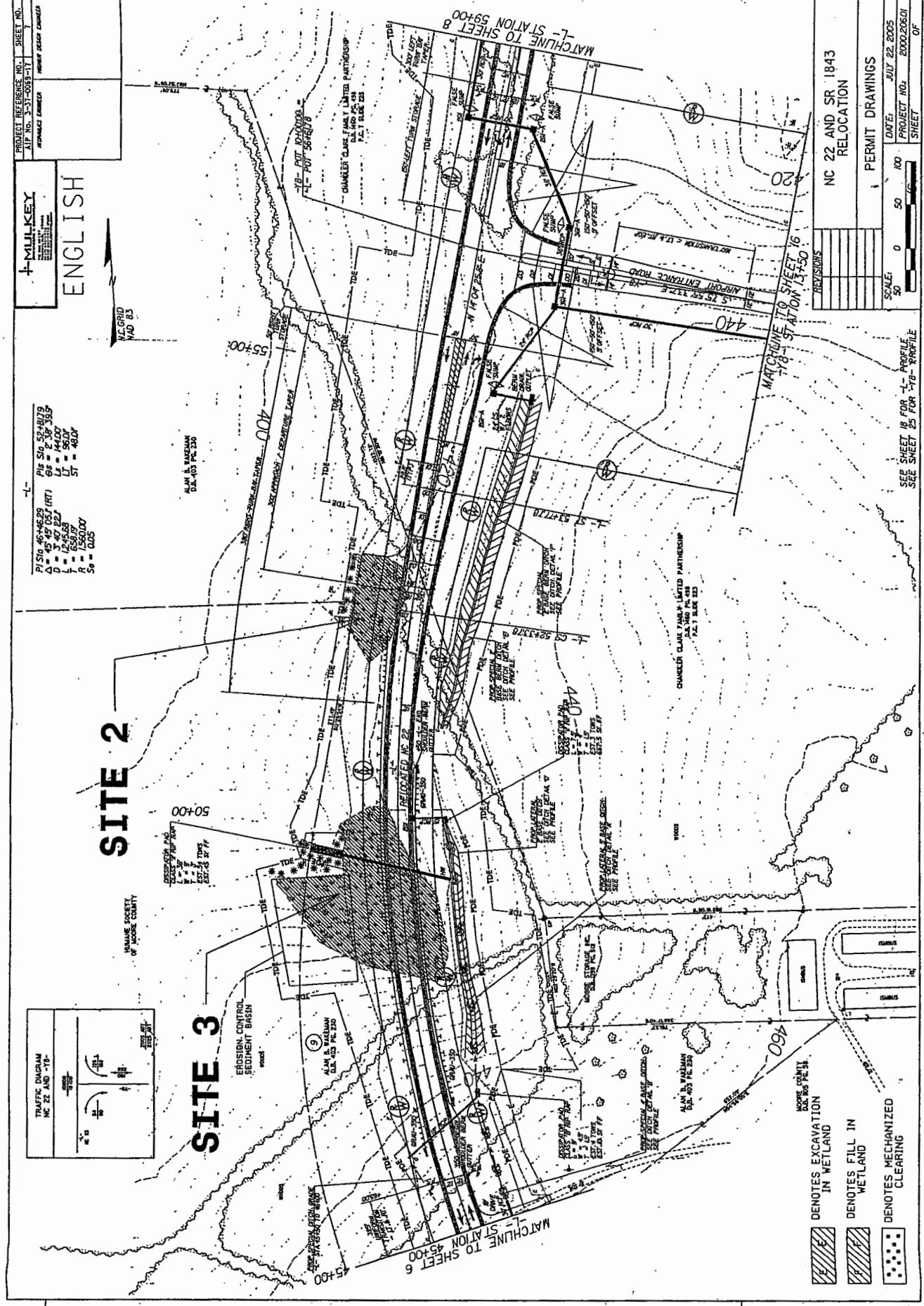
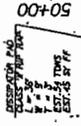
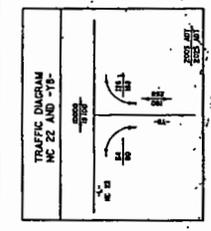
PLS# 46346.29
 Δ = 47.47 (52.17)
 D = 5.47 (5.22)
 L = 12.45 (5.8)
 R = 1550.00
 S = 0.03

SITE 2

SITE 3

IRVING SOCIETY
 OF MOORE COUNTY

EROSION CONTROL
 SEDIMENT BASIN



- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

DATE:	JULY 22, 2005
PROJECT NO.:	200020601
SHEET	OF
SCALE:	1" = 50'
PERMIT DRAWINGS	

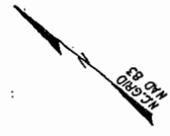
SEE SHEET 16 FOR 'L' PROFILE
 SEE SHEET 23 FOR '16' PROFILE

REVISIONS

PROJECT REFERENCE NO. SHEET NO.
 21-10039-11 13
 APPROVED FOR: OWNER NAME HERE

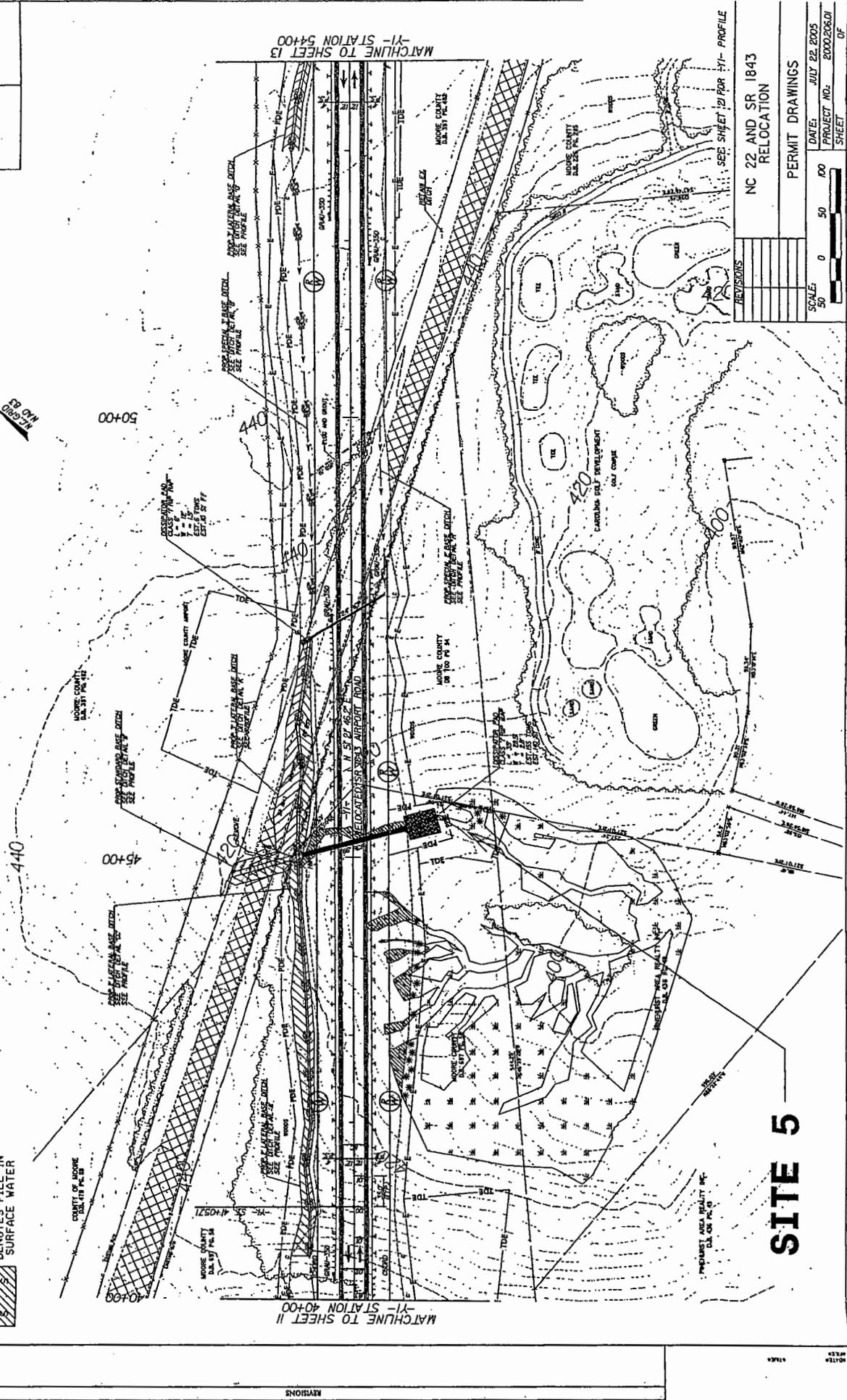
MILKEY
 ENGINEERS
 1000 W. 10th St.
 Raleigh, NC 27601
 TEL: 919.876.1111

ENGLISH



PIV STN 33+35.58 PIV STA 40+12.38
 Δ = 22° 20' 30.0" (UT) OS = 7.15' 30.0"
 D = 7.49' 00.0" LS = 140.00'
 L = 167.655' LT = 93.34'
 R = 5.27404' ST = 46.87'
 Sθ = 0.04'

- DENOTES MECHANIZED CLEARING
- DENOTES FILL IN WETLAND
- DENOTES FILL IN SURFACE WATER



REVISIONS

NC 22 AND SR 1843
 RELOCATION

DATE: JULY 22, 2005
 PROJECT NO.: 200020601
 SHEET 13 OF 17

SCALE: 1" = 50'

SITE 5

REVISIONS

