

215

PROJECT SPECIAL PROVISION

(10-18-95)

Z-1

PERMITS

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

<u>PERMIT</u>	<u>AUTHORITY GRANTING THE PERMIT</u>
Dredge and Fill and/or Work in Navigable Waters (404)	U. S. Army Corps of Engineers
Water Quality (401)	Division of Environmental Management, DENR State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-14 of the *Standard Specifications* and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.

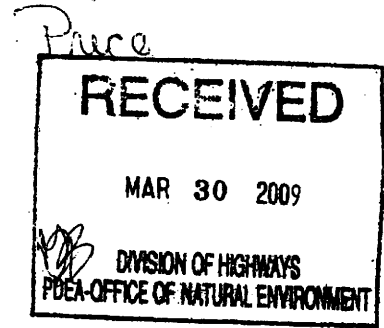


REPLY TO
ATTENTION OF:

I 216

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890

March 25, 2009



Regulatory Division

Subject: Action ID No. 2002-20899, TIP No. R-2417C, U.S. 421/NC 87 from east of NC 42 to NC 87 near SR 1138, Lee County, North Carolina.

Gregory J. Thorpe, Ph.D.
Environmental Management Director
Project Development & Environmental Analysis
1598 Mail Service Center
Raleigh, N.C. 27699-1598

Dear Dr. Thorpe:

I am responding to your request dated November 4, 2008 and January 23, 2009 for modifications to the existing Department of the Army (DA) permit issued for the above referenced project on May 22, 2002.

The referenced Section 404 permit authorized the impact to 3.22 acres of jurisdictional wetlands and 4,732 linear feet of natural stream channel. Due to required highway fill slope changes as a result of erodible soils found within the project area the impacts associated with the project have increased to 3.96 acres of wetlands and 5,132 linear feet of stream channel. This change resulted in a 0.74 acre increase in wetland impacts and a 400 linear feet increase in stream impacts. Utility line impacts have now been quantified for this section of the project with five utility line crossings totaling 0.01 acre of wetlands and 60 linear feet of stream impacts.

The referenced Section 404 permit for R-2417 is scheduled to expire on December 31, 2009. Two sections still remain to be constructed and would require a four year extension of time to complete construction on these remaining sections.

I have determined that the proposed project modifications described above are not contrary to the public interest and therefore, the DA permit is hereby modified. The proposed modifications are as follows:

1. **Special Condition b shall be modified to include: "The permittee shall mitigate for the additional 0.75 acres of unavoidable impacts to wetlands, and for the additional 259 linear feet of impact to important streams, associated with section R-2417C of the project. Mitigation shall be provided by the North Carolina Ecosystem Enhancement Program (NCEEP) within the Cape Fear River Basin (Cataloging Unit 03030004). The EEP will provide 1.5 acres of riparian wetland credits and 518 linear feet of warm water stream credits, pursuant to Section X of Amendment Number 2 to the Memorandum of Agreement (MOA) signed 8 March 2007."**

2. Special Condition ff shall be modified to read: "The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Wilmington Regulatory Field Office, prior to any work within jurisdictional waters and wetlands within Section R-2417C to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings. One copy of the final half-size construction drawings shall be furnished to the Corps of Engineers Project Manager prior to the pre-construction meeting."

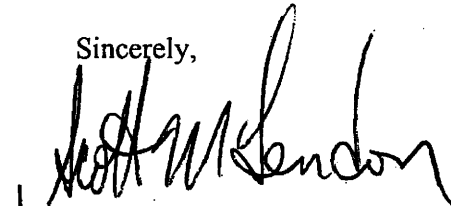
3. The time limit for completing the work authorized ends on December 31, 2013. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

4. All work authorized by this permit modification must be preformed in strict compliance with the attached plans, which are a part of the permit.

Please note that all unmodified terms and conditions of your original Department of the Army permit and all previous modifications shall remain in effect.

Should you have any questions, please contact Mr. Richard Spencer, Wilmington Field Office, Regulatory Division, at telephone (910) 251-4172.

Sincerely,



Jefferson M. Ryscavage
Colonel, EN
Commanding

Enclosure

Copies furnished (with enclosure):

Mr. Tim Johnson, PE
Division Engineer, Division 8
North Carolina Department of Transportation
P.O. Box 1067
Aberdeen, North Carolina 28315

Mr. Travis W. Wilson
NC Wildlife Resource Commission
1142 I-85 Service Rd.
Creedmoor, North Carolina 27522

Mr. Brain Wrenn
NCDENR-DWQ
Wetlands Section
1650 Mail Service Center
Raleigh, North Carolina 27699-1650

Mr. Pete Benjamin
U.S. Fish and Wildlife Service
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

Ms. Kathy Matthews
United States Environmental Protection Agency
Region 4 Wetlands Section
109 T.W. Alexander Drive
Durham, North Carolina 27711
MAIL CODE: E143-04

Mr. Chris Militcher
United States Environmental Protection Agency
C/o Federal Highway Administration
310 New Bern Avenue
Raleigh, North Carolina 27601

Mr. Art King
Division Environmental Officer, Division 8
North Carolina Department of Transportation
P.O. Box 1067
Aberdeen, North Carolina 28315



I 219

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890

IN REPLY REFER TO

May 28, 2002

Regulatory Division

SUBJECT: Action ID 2002-2-0899, TIP No. R-2417

Mr. William D. Gilmore, P.E., Manager
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
Division of Highways
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Mr. Gilmore:

In accordance with your written request of June 11, 2001, subsequently modified on June 22, 2001, and September 28, 2001, and the resulting administrative record, enclosed are two copies of a Department of the Army permit to authorize the discharge of dredged and fill material into waters of the United States, for construction of the US 421-NC 87 Sanford Bypass (T.I.P. No. R-2417), in the Cape Fear River Basin, in Lee County, North Carolina.

You should acknowledge that you accept the terms and conditions of the enclosed permit by signing and dating each copy in the spaces provided ("Permittee" on page 3). Your signature, as permittee, shows that, as consideration for the issuance of this permit, you voluntarily accept and agree to comply with all of the terms and conditions of this permit. All pages of both copies of the signed permit with drawings should then be returned to this office for final authorization. A self-addressed envelope is enclosed for your convenience.

After the permit is authorized in this office, the original copy will be returned to you; the duplicate copy will be permanently retained in this office. Should you have questions, contact Mr. Eric Alsmeyer of my Raleigh Field Office regulatory staff at telephone (919) 876-8441, extension 23.

Sincerely,

E. David Franklin
Chief, NCDOT Team

Enclosures

DEPARTMENT OF THE ARMY PERMIT

NC Department of Transportation
 Permittee _____
 Permit No. 200220899
 Issuing Office CESAW-RG-R

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description:

Place fill material impacting a total of 11.06 acres of wetlands, 23,640 linear feet of stream, and 6.32 acres of ponds, for construction of the US 421-NC 87 Sanford bypass (T.I.P. No. R-2417).

In the upper and middle Cape Fear River basins, from existing US 421 northwest of Sanford to existing NC 87, southeast of Sanford, in Lee County, North Carolina.
 Project Location:

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on December 31, 2009. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

See enclosed sheet.

Further Information:

1. **Congressional Authorities:** You have been authorized to undertake the activity described above pursuant to:

- () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. **Limits of this authorization.**

- a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. **Limits of Federal Liability.** In issuing this permit, the Federal Government does not assume any liability for the following:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: NCDOT/TIP R-2417 (Sanford Bypass) | File Number: 2002-2-0899 | Date: May 28, 2002

Attached is: See Section below

X	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I: The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inet/functions/cw/cecwo/reg-or> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

<p>If you have questions regarding this decision and/or the appeal process you may contact: Mr. Eric C. Alsmeyer, Regulatory Project Manager U.S. Army Corps of Engineers, Wilmington District Raleigh Regulatory Field Office 6508 Falls of Neuse Road, Suite 120 Raleigh, North Carolina 27615-6814</p>	<p>If you only have questions regarding the appeal process you may also contact: Mr. Arthur Middleton, Administrative Appeal Review Officer CESAD-ET-CO-R U.S. Army Corps of Engineers, South Atlantic Division 60 Forsyth Street, Room 9M15 Atlanta, Georgia 30303-8801</p>
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RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

<p>Signature of appellant or agent.</p>	<p>Date:</p>	<p>Telephone number:</p>
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DIVISION ENGINEER:
 Commander
 U.S. Army Engineer Division, South Atlantic
 60 Forsyth Street, Room 9M15
 Atlanta, Georgia 30303-3490

SPECIAL CONDITIONS (Action ID. 2002-2-0899; NCDOT/TIP R-2417)

a. All work authorized by this permit must be prepared in strict compliance with the attached plans, which are a part of this permit.

b. The permittee shall mitigate for 11.06 acres of unavoidable impacts to wetlands, and for 19,222 linear feet of impact to important streams, for the project, as described below (2.21 acres of wetland restoration at the Sandy Creek mitigation site, 11.05 acres of wetlands preservation, along with upland buffer and stream preservation, at the Blue Tract mitigation site, 2,084 linear feet of onsite stream relocation, 4,545 linear feet of stream restoration/enhancement at the Deaton mitigation site, and 25,186 linear feet of stream mitigation and 17.7 acres of wetland mitigation through the North Carolina Wetlands Restoration Program (NCWRP), in the Middle Cape Fear basin (Cataloging Unit 03030004)).

SANDY CREEK WETLANDS RESTORATION

c. The permittee shall provide the restoration described in condition d. below through implementation of the compensatory wetland mitigation plan "Wetland Mitigation Plan – Sandy Creek Site", dated April, 1999.

d. The permittee shall mitigate for 1.105 acres of unavoidable impacts to wetlands associated with this project with 2.21 acres of wetland restoration at the Sandy Creek Mitigation Site.

e. NCDOT will do a boundary survey of the 2.21 acres of wetland restoration at the Sandy Creek Mitigation Site, and submit a copy of the survey to the District Engineer within 90 days after the permit is issued.

f. The permittee will monitor the site vegetation between June 1 and November 30, inclusively, of each year, and document plant mortality and stress. A minimum of three 0.05 acre sample plots will be used (placed randomly within representative positions in the restoration area). The permittee will continue monitoring of the planting areas annually until the respective performance criteria are met, as described below.

SANDY CREEK MITIGATION MONITORING

g. Performance criteria for tree planting areas will be met if sample plots demonstrate that for each of the first three complete years of monitoring, at least 320 target-species trees per acre have survived, such that at the end of three years, at least 320 three-year old target-species trees per acre have survived on the site, and, in years four and five, at least 288 and 260 trees per acre, respectively, have survived on the site, such that at the end of year five, at least 260 five-year old target-species trees per acre have survived on the site.

h. If for any monitoring year, vegetation survival is not favorable, as determined by the Corps of Engineers, any remedial action required by the Corps of Engineers will be performed, the required restoration areas will be replanted, and the five-year monitoring period will begin again with year one.

i. Hydrology in the restoration areas will be monitored through the use of monitoring gauges during each growing season for the first five years of the vegetative monitoring, or until performance criteria have been met, whichever occurs later. A minimum of six groundwater gauges will be used within the total wetland restoration area at Sandy Creek.

j. To meet the hydrology success criteria, the monitoring data must show that for each normal precipitation year within the monitoring period, the site has been inundated or saturated within the upper 12 inches of the soil for a minimum of 12.5% of the growing season (29 consecutive days for Randolph County). WETS tables for Randolph County will be utilized as appropriate to determine normal precipitation years.

k. If there are no normal precipitation years during the first five years of monitoring, to meet performance criteria, the permittee will continue to monitor hydrology on the site until it shows that the site has been inundated or saturated as described above during a normal precipitation year.

l. In the alternative, and at the Corps' discretion, a site may be found to meet the hydrology performance criteria on the basis of comparison of monitoring data taken from the site with monitoring data taken from an established jurisdictional mitigation reference site approved by the Corps. The Corps retains the discretion to find that the hydrology criteria are met if such monitoring data from the mitigation site and the reference site are substantially the same. This finding by the Corps may be made during years with or without normal rainfall.

m. In the event there are years of normal precipitation during the monitoring period, and the data for those years do not show that the site has been inundated or saturated within the upper 12 inches of the soil for a minimum of 12.5 % of the growing season (29 consecutive days) during a normal precipitation year, the Corps may require remedial action. The permittee shall perform such required remedial action, and continue to monitor hydrology on the site until it displays that the site has been inundated or saturated as described above, during a normal precipitation year. If the Corps determines that further remediation is not appropriate, other options will be considered, including use of a different site to mitigate for project impacts.

n. The permittee will submit yearly mitigation monitoring reports by the first day of February after each assessment period, for five years following final site manipulation. These reports will include, at a minimum, sample plot, well and rainfall data; number of individuals of each tree species within each sample plot; photographs, including a location key; and problems/resolution, and will be provided to both the Corps and the North Carolina Division of Water Quality.

BLUE TRACT WETLANDS PRESERVATION

o. The permittee shall implement the compensatory wetland mitigation plan entitled "Blue Tract Mitigation Planning Document", dated June 11, 2001, to provide the preservation described in condition p. below.

p. The permittee shall mitigate for 1.105 acres of unavoidable impacts to wetlands associated with this project with 11.05 acres of wetland preservation, and additional upland buffer and stream preservation, at the Blue Tract Mitigation Site.

q. NCDOT will submit a copy of a boundary survey of the 11.05 acres of wetland preservation at the Blue Tract Mitigation Site, to the District Engineer within 90 days after this permit is issued.

ONSITE STREAM RELOCATION

r. The permittee shall mitigate for 2,084 linear feet of unavoidable impacts to important stream channel associated with this project by completing 2,084 linear feet of onsite stream relocation, as described in the permit application. The stream relocation shall be constructed in accordance with the North Carolina Wildlife Resources Commission's (NCWRC) "Stream Relocation Guidelines", and with the attached permit drawings. NCDOT shall consult with NCWRC on all stream relocations and implement all practicable recommendations in the design of specific site requirements for re-establishment of bank vegetation, and placement of meanders and habitat structures. Vegetation shall be used to the maximum extent practicable to stabilize banks, and riprap and other man-made structural measures shall be minimized.

s. The permittee shall construct all channel relocations in a dry work area. The permittee shall stabilize the relocated channel before stream flows are turned into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Vegetation used to stabilize banks shall be limited to native woody species, and should include establishment of a 30 foot wide wooded buffer and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical.

t. The permittee shall visually monitor the vegetative plantings on all mitigation stream banks to assess and insure complete stabilization of the mitigation stream segments. This monitoring shall include adequate visual monitoring of planted vegetation quarterly for a minimum of two years after final planting, and appropriate remedial actions (e.g., replanting, streambank grading, etc.). If within any monitoring year, bank stabilization is not acceptable as determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is performed, the two year monitoring of the affected portions of the stream will begin again. The permittee will coordinate

stream mitigation activities with the Corps of Engineers, Raleigh Regulatory Field Office Project Manager, and will report verbally on the status of the stream mitigation within thirty days of the quarterly monitoring. The permittee will submit a brief written report with representative photographs within 90 days after the monitoring year is completed.

DEATON SITE STREAM MITIGATION

u. The permittee shall mitigate for 4,545 linear feet of unavoidable impacts to stream channel associated with this project with 4,545 linear feet of stream restoration at the Deaton Mitigation Site, as described in the Deaton Site stream mitigation plan.

v. The permittee shall visually monitor the vegetative plantings on the mitigation stream banks to assess and insure complete stabilization of the mitigation stream segments. This monitoring shall include adequate visual monitoring of planted vegetation quarterly for a minimum of two years after final planting, and appropriate remedial actions (e.g., replanting, streambank grading, etc.). The permittee will coordinate with the Corps of Engineers, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager, and will report verbally on the status of the stream mitigation, within thirty days of the quarterly monitoring. The permittee will submit a brief report with representative photographs within 90 days after the monitoring year is completed.

w. All site preparation activities at the Deaton Mitigation Site shall be completed before October 1, 2003. An "as built" plan, which describes the completed mitigation project, including variations from the original plan, final structure locations, and photographs, including a location key, shall be submitted to the District Engineer within 60 days of completion of the mitigation. NCDOT shall submit the first monitoring report to both the Corps and the North Carolina Division of Water Quality before February 1, 2003.

GENERAL MITIGATION

x. The permittee and/or current and subsequent property owners shall maintain the Sandy Creek, Blue Tract, and Deaton Mitigation Sites in their natural condition, as altered by work in the mitigation plans, in perpetuity. Prohibited activities within the mitigation sites specifically include, but are not limited to: the construction or placement of roads, walkways, buildings, signs, or structures of any kind (i.e., billboards, interior fences, etc.); filling, grading, excavation, leveling, or any other earth moving activity or activity that may alter the drainage patterns on the property; the cutting, mowing, destruction, removal, or other damage of any vegetation; disposal or storage of any debris, trash, garbage, or other waste material; except as may be authorized by the mitigation plans, or subsequent modifications that are approved by the Corps of Engineers. In addition, the permittee shall take no action, whether on or off the mitigation properties, which will adversely impact the wetlands or streams on the mitigation properties, except as specifically authorized by this permit, or subsequent modifications that are approved by the Corps of Engineers.

y. The permittee shall make every effort to convey the Sandy Creek, and Blue Tract Mitigation Site properties to a nonprofit conservation organization or a natural resource agency, which is willing to hold the areas in perpetuity for conservation purposes, and which is acceptable to the Corps of Engineers. The annual monitoring reports, as required, will include the status of the conveyance efforts.

z. The permittee shall not sell or otherwise convey any interest in the wetland mitigation properties used to satisfy mitigation requirements for this permit, to any third party, without written approval from the Wilmington Corps of Engineers.

aa. Any sale, lease, or other conveyance of the wetland mitigation site properties shall include restrictions on the use of the properties as described in condition y. above, which conditions shall be enforced by the North Carolina Department of Transportation. Such restrictions shall include language providing for third party enforcement rights in favor of the Corps of Engineers. Such restrictions must be approved by the Corps of Engineers prior to conveyance.

NCWRP WETLANDS MITIGATION

bb. The permittee shall mitigate for 8.85 acres of unavoidable impacts to wetlands associated with this project by payment to the North Carolina Wetlands Restoration Program (NCWRP) in an amount determined by the NCWRP sufficient to perform 17.7 acres of riparian, palustrine forested wetland mitigation in the middle Cape Fear River basin (Cataloging Unit 03030004). Construction within wetlands on the permitted highway project shall begin only after the permittee has made full payment to the NCWRP, and the NCWRP has made written confirmation to the District Engineer, that it agrees to accept responsibility for the mitigation work required, pursuant to Paragraph IV.D. of the Memorandum of Understanding between the North Carolina Department of Environment and Natural Resources and the U.S. Army Corps of Engineers, Wilmington District, dated November 4, 1998.

NCWRP STREAM MITIGATION

cc. The permittee shall mitigate for 12,593 linear feet of unavoidable impacts to important stream channel associated with this project by payment to the North Carolina Wetlands Restoration Program (NCWRP) in an amount determined by the NCWRP sufficient to perform 25,186 linear feet of warm water stream mitigation, or the equivalent water quality improvement projects, as approved by the Corps of Engineers, in the middle Cape Fear River basin (Cataloging Unit 03030004). Construction within streams on the permitted highway project shall begin only after the permittee has made full payment to the NCWRP, and the NCWRP has made written confirmation to the District Engineer, that it agrees to accept responsibility for the mitigation work required, pursuant to Paragraph IV.D. of the Memorandum of Understanding between the North Carolina Department of Environment and Natural Resources and the U.S. Army Corps of Engineers, Wilmington District, dated November 4, 1998.

GENERAL MITIGATION

dd. The permittee shall contact the Corps of Engineers, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager for this project, to provide that individual with the opportunity to attend the yearly mitigation monitoring efforts.

ee. Failure to institute and carry out the details of special conditions a. - dd, above, will result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with the permitted project, or such other remedy as the District Engineer or his authorized representatives may seek.

OTHER CONDITIONS

ff. When final design plans are completed for Sections AA and C of TIP R-2417, any necessary permit modifications shall be submitted to the District Engineer and the North Carolina Division of Water Quality (NCDWQ). If necessary, a public notice will be circulated for review. Final designs shall reflect all appropriate avoidance, minimization, and a compensatory mitigation plan for additional impacts within streams and wetlands. Construction within streams and wetlands on TIP R-2417 shall begin only after approval by the District Engineer of the modified impacts.

gg. NCDOT shall use "High Quality Waters" sedimentation and erosion control measures for all portions of the project west of SR 1415.

hh. Prior to commencing construction within jurisdictional waters of the United States for any section, the permittee shall forward the latest version of project construction drawings for that section to the Corps of Engineers, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings are acceptable.

ii. The permittee shall schedule a meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands in each section, to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings.

jj. The permittee and its contractors and/or agents shall not excavate, fill, or perform mechanized landclearing at any time in the construction or maintenance of this project within waters and/or wetlands, except as authorized by this permit, or any modification to this permit. There shall be no excavation from, or waste disposal into,

jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project.

kk. To ensure that all borrow and waste activities occur on high ground, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The permittee shall ensure that all such areas comply with the preceding condition (jj.) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the preceding condition (jj.). All information will be available to the Corps of Engineers upon request.

ll. The permittee shall comply with the conditions specified in the water quality certification, No. 3378, issued by the North Carolina Division of Water Quality on April 10, 2002.

mm. The permittee shall place culverts and other structures in waters, streams, and wetlands below the elevation of the streambed to allow low flow passage of water and aquatic life, unless providing passage would be impractical. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to, or upstream and downstream of the structures.

nn. The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard (50 NTU's in all streams and rivers, and 25 NTU's in all lakes).

oo. The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

pp. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.

qq. If the permittee discovers any previously unknown historic or archeological remains while accomplishing the authorized work, he will immediately notify the Wilmington District Engineer who will initiate the required State/Federal coordination.

rr. No excavated or fill material will be placed at any time in waters or wetlands outside the permitted construction areas, nor will it be placed in any location or in any manner so as to impair surface water flow into or out of any wetland area.

ss. The permittee will maintain the authorized work in good condition and in conformance with the terms and conditions of this permit. The permittee is not relieved of this requirement if he abandons the permitted activity without transferring it to a third party.

tt. All fill material will be clean and free of any pollutants except in trace quantities. Metal products, organic materials, or unsightly debris will not be used.

uu. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

vv. This permit does not grant any property rights or exclusive privileges.

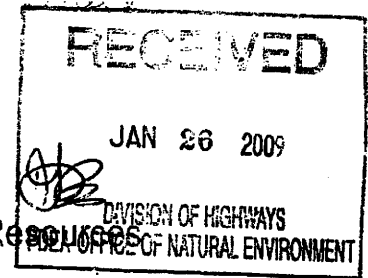
ww. In issuing this permit, the Federal Government does not assume any liability for:

1. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
2. Damages to the permitted project or uses thereof as a result of current or future Federal activities initiated on behalf of the general public.
3. Damages to other permitted or unpermitted activities or structures caused by the authorized activity.
4. Design and construction deficiencies associated with the permitted work.
5. Damage claims associated with any future modification, suspension, or revocation of this permit.



233

North Carolina Department of Environment and Natural Resources



Beverly Eaves Perdue, Governor

Dee Freeman, Secretary

January 21, 2009

Dr. Greg Thorpe, PhD., Manager
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina, 27699-1548

Subject: Sixth Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for the US 421/NC 87 (Sanford Bypass) from East of NC 42 to NC 87 near SR 1138 in Lee County, Federal Aid Project No. STPNHF-421(2), State Project No. 8.T540402, TIP R-2417C, DWQ Project No. 00-1432

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 3378 issued to The North Carolina Department of Transportation (NCDOT) and dated April 10, 2002. This modification is applicable only to the additional proposed activities. **All authorized activities and conditions of the original certification associated with the original Water Quality Certification, dated April 10, 2002, and all subsequent modifications still apply except where superseded by this certification.**

If we can be of further assistance, please do not hesitate to contact Polly Lespinasse at (704) 663-1699.

Sincerely,

for Coleen H. Sullins
Director

Attachments

cc: Richard Spencer, US Army Corps of Engineers, Wilmington Office
Chris Militscher, Environmental Protection Agency
Troy Wilson, NC Wildlife Resources Commission
Gary Jordan, US Fish and Wildlife Service
Polly Lespinasse, DWQ Mooresville Regional Office
Ken Averitte, DWQ Fayetteville Regional Office
Greg Price, PDEA, NCDOT
File Copy

610 East Center Avenue, Suite 301, Mooresville, North Carolina 28115
Phone: 704-663-1699 \ FAX: 704-663-6040 \ Internet: www.enr.state.nc.us

Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to *additionally* impact 5,192 linear feet of jurisdictional streams, 3.97 acres of jurisdictional wetlands, and 2.86 acres of surface waters in Lee County as listed below. The project shall be constructed pursuant to the modification received December 5, 2008 *and additional information received electronically January 8, 15, and 16, 2008*. The authorized impacts are as described below:

Stream Impacts in the Cape Fear River Basin

Permit Site No. and Station No. / Stream Name	Permanent Fill in Intermittent Stream (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear feet)	Stream Impacts Requiring Mitigation (linear ft)
Site #2, Station No. 13+00 +/- -YRPC-/ Carrs Creek			312		312	312
Site #2, Station No. 613+28 +/- LREV/ Carrs Creek			540		540	540
Site #2, Station No. 12+28, 151' RT, YRPC (utility impact)/ Carrs Creek			10		10	10
Site #3, Station No. 18+67, 171' RT, YRPB (utility impact)/ Carrs Creek			10		10	10
Site #4, Station No. 18+20 -YRPB-LT/ UT to Carrs Creek				80	80	0
Site #4, Station No. 19+84 -YRPB-LT/ UT to Carrs Creek				42	42	0
Site #4, Station No. 11+63, 128.3' RT, YRPD (utility impact)/ UT Carrs Creek			10		10	10
Site #4, Station No. 11+63, 141' RT, YRPD (utility impact)/ UT Carrs Creek			10		10	10
Site #5, Station No. 19+18 +/- -YRPB-/ UT to Carrs Creek			252		252	252
Site #5, Station No. 19+58 - YRPB-/ UT to Carrs Creek	143				143	0
Site #5, Station No. 19+94 +/- -Y-LT/ UT to Carrs Creek			175	117	292	175
Site #5, Station No. 7+69, 142' RT, YRPD (utility impact)/ UT Carrs Creek			20		20	20
Site #6, Station No. 10+50 -YRPD-/ UT to Carrs Creek			393	33	426	393
Site #6, Station No. 6+25 - YRPA-/ UT to Carrs Creek			305		305	305
Site #7, Station No. 13+62 -Front-/ UT to Carrs Creek			121	117	238	121

Site #8, Station No. 643+75 -LREV-RT/ UT to Carrs Creek	442	32			474	0
Site #10, Station No. 26+50-I9FLY-/ UT to Carrs Creek			120	105	225	120
Site #11, Station No. 19+68 -I9DFLY-/ UT to Carrs Creek			700		700	700
Site #11, Station No. 678+00 -LREV-LT/ UT to Carrs Creek			690	15	705	690
Site #13, Station No. 690+00 -LREV-LT/ UT to Carrs Creek	266				266	0
Site #14, Station No. 45+25 -Y-RT/ UT to Carrs Creek	107	43			150	0
Site #16, Station No. 589+17 to 593+67 LREV RT/ UT to Carrs Creek			566	11	577	566

Total Stream Impacts for Project: 5,192 linear feet
Total Stream Impacts Requiring Mitigation: 4,234 linear feet

Riverine and Non-Riverine Wetland Impacts in the Cape Fear River Basin

Permit Site No./Station No.	Wetland Type (Riverine or Non-Riverine)	Permanent Fill (acres)	Temporary Fill (acres)	Mechanized Clearing (acres)	Hand Clearing (acres)	Total Acres
Site #1/YRPC 10+97LT to 12+71RT	Riverine	0.41		0.02		0.43
Site #1/YRPC 11+75, 171'RT (utility impact)	Riverine	0.006				0.006
Site #3/613+00 +/- - LREV-	Riverine	0.06				0.06
Site #3/26+64 +/- Y- to 22+35 +/- -Y- LT	Riverine	0.43				0.43
Site #5/20+20 +/- Y-RT	Riverine	0.03	0.01	0.01		0.05
Site #8/643+75 - LREV-RT	Riverine	0.09		<0.01		0.10
Site #9/649+80 - LREV-	Riverine	0.11	0.02	<0.01		0.14
Site #10/26+50 - I9FLY-	Riverine	0.23				0.23
Site #10/20+00 - I9FLY-	Riverine	0.02				0.02
Site #15/LREV RT 574+76 to 583+84	Riverine	2.18		0.23		2.41
Site #16/LREV RT 589+17 to 593+67	Riverine	0.11		0.01		0.12

Total Riverine Wetland Impacts for Project: 3.97 acres
Total Riverine Wetland Impacts Requiring Mitigation: 3.97 acres

Open Water (Ponds) Impacts in the Cape Fear River Basin

Permit Site No./ Station No.	Permanent Fill in Open Waters (ac)	Temporary Fill in Open Waters (ac)	Total Fill in Open Waters (ac)
Site #10/665+00 -LREV-	2.83		2.83
Site #12/680+00 -LREV-LT	0.03		0.03
Total	2.86		2.86

Total Open Water Impacts for Project: 2.86 acres

The application provides adequate assurance that the discharge of fill material into the waters of the Cape Fear River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modification application dated received December 5, 2008 **and additional information received electronically January 8, 15, and 16, 2008**. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions.

If any additional wetland or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Storm Water, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Conditions of Certification:

1. The natural rock energy dissipator proposed at Permit Site #16 (Permit Drawing Sheet 14 of 31) shall be constructed per Detail Sheet 2-K. Rock used to construct the dissipator and associated "rock sill" shall be constructed so that low flow passage of water or aquatic life is impeded.
2. A natural rock energy dissipator (Detail Sheet 2-K) is proposed on the stream bank, in a level area for constructability (per NCDOT staff) at Permit Site #2 (Permit Drawing Sheet 16 of 31, -YRPC-). The dissipator is designed such that storm flows will be directed upstream once they exit the dissipator. NCDOT is advised that if the stream destabilizes in this area due to backwater or other conditions caused by the dissipator alignment, corrective actions to stabilize the stream will be required.
3. Two (2) ditch lines are proposed on the stream banks at Permit Site #2 (Permit Drawing 16 of 31, -YRPC-) which discharge into the stream at nearly right angles. NCDOT is advised that if stream bank destabilization occurs as a result of the ditch line alignments, corrective actions to stabilize the stream will be required.
4. The stream is relocated to a ditch line at Permit Site #13 (Permit Drawing 24 of 31) and then conveyed into the natural stream. The ditch line appears to discharge to the natural stream at nearly a right angle. NCDOT is advised that if stream bank destabilization occurs as a result of the ditch line alignment, corrective actions to stabilize the stream will be required.

5. Two (2) overflow culverts will be installed at Permit Site #5 (Permit Drawing 26 of 31). An "overflow channel" is depicted on the outlet end of the overflow culverts. Per NCDOT staff, no excavation or other earthwork will be required to tie the "overflow channel" into the existing stream. If excavation or other earthwork is required, on the streambanks or in the stream, to provide a connection from the overflow channel to the stream, a detail shall be provided to ensure that no additional jurisdictional impacts will be incurred and the stream will remain stable.
6. Class B riprap is proposed for the channel relocation at Permit Site 14 (Permit Drawing 28 of 31) and the outfall from the associated ditch line. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed. In addition, riprap shall be of sufficient size such that it is not carried downstream by normal stream flow.
7. At locations where ponds will be drained, proper measures will be taken to drain the pond with limited impact to upstream and downstream channel stability as well as to native aquatic species. Proper measures will be taken to avoid sediment release and/or sediment accumulation downstream as a result of pond draining. If typical pond draining techniques will create significant disturbance to native aquatic species, additional measures such as collection and relocation may be necessary to prevent a significant fish kill. NCDOT shall consult with the NC Wildlife Resources Commission Staff to determine if there are any sensitive species, and the most appropriate measures to limit impacts to these species.
8. A sill shall be placed on one of the box culverts to maintain the natural stream dimension at Permit Sites 2 (Permit Drawing 16 of 31) and 7 (Permit Drawing 30 of 31).
9. Placement of culverts and other structures in waters, streams and wetlands shall be below the elevation of the streambed by one (1) foot for all culverts with a diameter greater than 48 inches and 20 percent of the culvert diameter for culverts having a diameter of less than 48 inches, to allow for low flow passage of water and aquatic life. Design and placement of culverts and other structures, including temporary erosion control measures, shall not be conducted in a manner that may result in disequilibrium of wetlands or streambeds or banks, adjacent to or upstream and downstream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by DWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NCDWQ for guidance on how to proceed and to determine whether or not a modification to this certification will be required.
- *10. Compensatory mitigation for 4,234 linear feet of streams and 3.97 acres of impacts to riverine wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Ecosystem Enhancement Program (EEP) and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated October 22, 2008, that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003, and the Dual-Party MOA signed on April 12, 2004.
11. Due to the possibility that compaction and/or other site alterations might prevent the temporary wetland impact areas from re-attaining jurisdictional wetland status, the permittee shall schedule an agency field meeting with the NC Division of Water Quality to determine if the wetland areas temporarily impacted by this project have re-attained jurisdictional wetland status. If the temporarily impacted wetland areas have not re-attained jurisdictional wetland status, NC Division of Water Quality shall determine if compensatory wetland mitigation will be required.
12. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this Certification.

13. During construction of the project, no staging of equipment, of any kind, is permitted in waters of the U.S. or protected riparian buffers.
14. The Permittee shall ensure that the final design drawings adhere to the certification and to the drawings submitted for approval.
15. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and surface waters. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
16. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams should be restored to natural geomorphic conditions.
17. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of the NCDOT Construction and Maintenance Activities Manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
18. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
19. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
20. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this Certification.
21. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
22. Native riparian vegetation must be re-established within the construction limits of the project by the end of the growing season following completion of construction.
23. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated this permit without appropriate modification. Should waste or borrow sites be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
24. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface water standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.

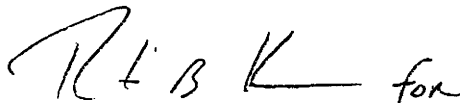
25. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.
26. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations or ordinances that may be imposed by other governmental agencies (i.e., local, state, and federal) having jurisdiction, including but not limited to, applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
27. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
28. A copy of this Water Quality Certification shall be posted on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
- *29. Upon completion of the project, the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed.
30. The permittee and its authorized agents shall conduct its activities in a manner consistent with State Water Quality Standards [including any requirements resulting from compliance with 303(d) of the Clean Water Act] and any other appropriate requirements of State and Federal law. If DWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use), that State or Federal law is being violated, or that further conditions are necessary to assure compliance, DWQ may re-evaluate and modify this certification.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 21st day of January 2009

DIVISION OF WATER QUALITY



Coleen H. Sullins
Director

WQC No. 3378

One
North Carolina
Naturally

***Certificate of Completion**

DWQ Project No. 00-1432

County: Lee

Applicant: NC Department of Transportation

Project Name: R-2417C, Sanford Bypass

Date of Issuance of 401 Water Quality Certification: 1/21/2009

Upon completion of all work approved within the 401 Water Quality Certification and Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401/Wetlands Unit, North Carolina Division of Water Quality, 1621 Mail Service Center, Raleigh, NC, 27699-1621. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____

Date: _____

Agent's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____

Date: _____

If this project was designed by a Certified Professional

I, _____, as a duly registered Professional _____ (i.e., Engineer, Landscape Architect, Surveyor, etc.) in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

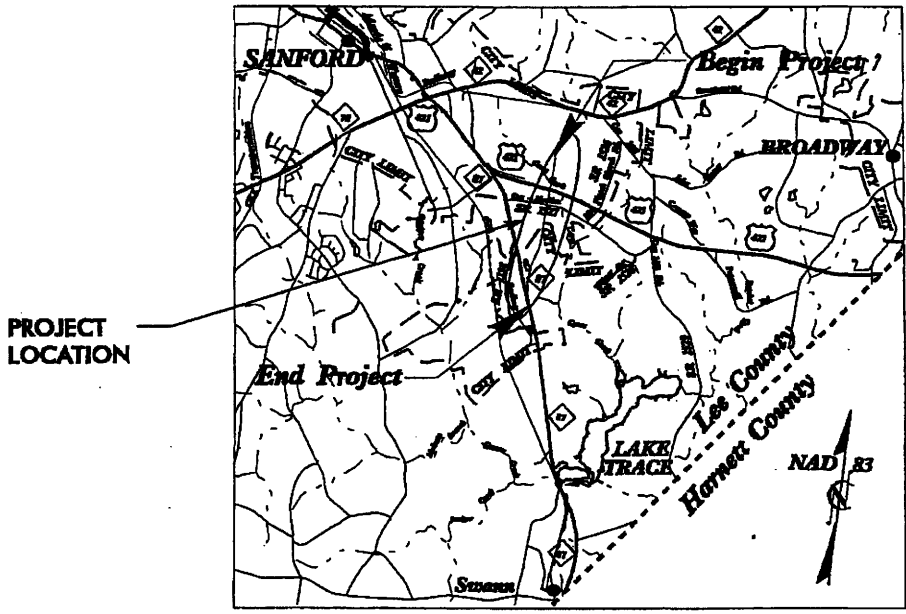
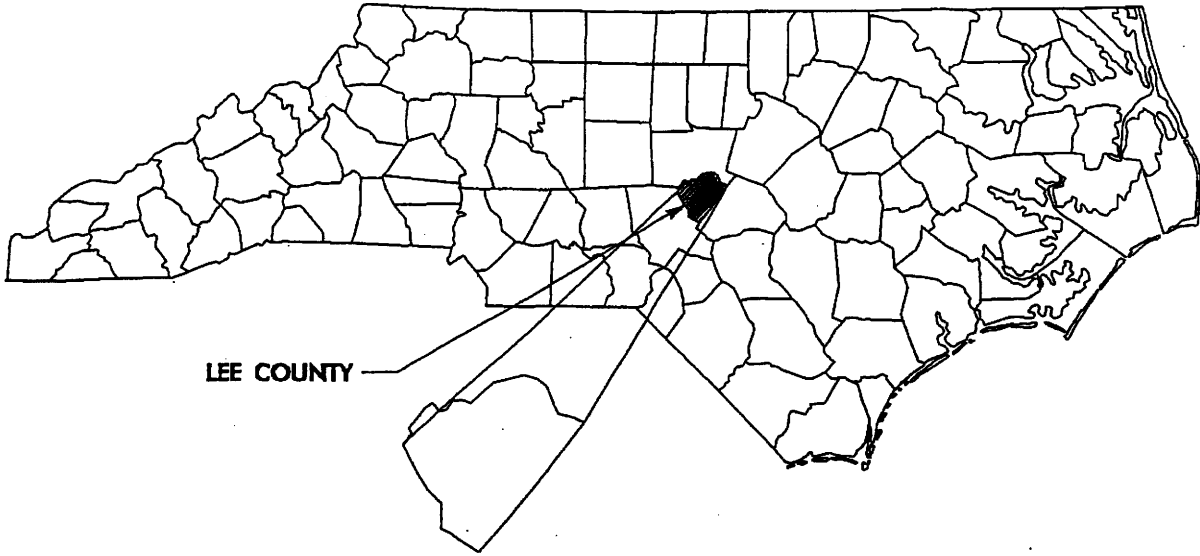
Signature: _____

Registration No.: _____

Date: _____

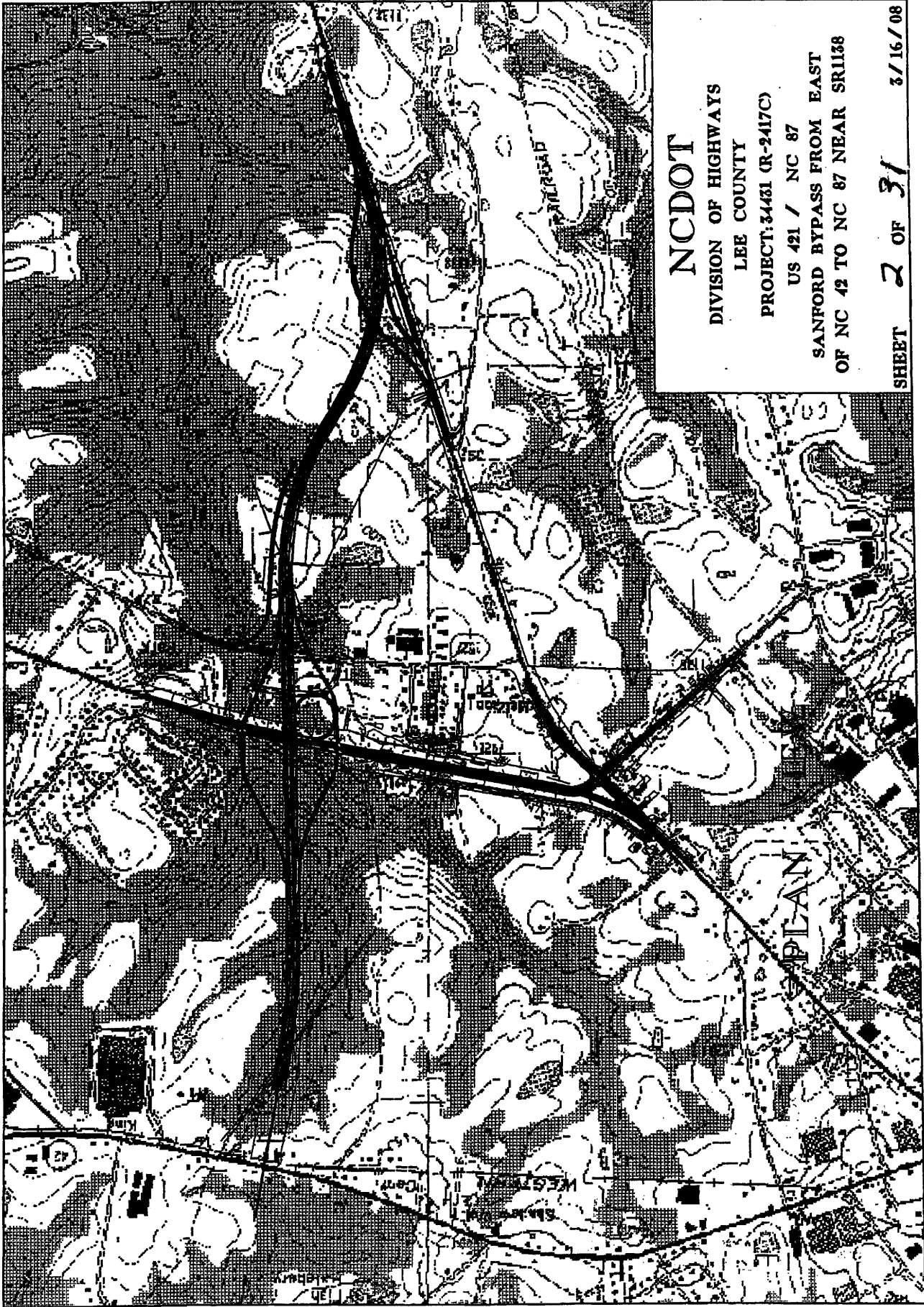
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241 NORTH CAROLINA



VICINITY MAP

NCDOT
 DIVISION OF HIGHWAYS
 LEE COUNTY
 PROJECT: 3443LL1 (R-2417C)
 US 421/ NC 87 (SANFORD BYPASS)
 FROM EAST OF NC 42 TO NC 87
 NEAR SR 1138



NCDOT

DIVISION OF HIGHWAYS

LEE COUNTY

PROJECT: 34431 (R-2417C)

US 421 / NC 87

SANFORD BYPASS FROM EAST
OF NC 42 TO NC 87 NEAR SR1138

SHEET 2 OF 31

3/16/08

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
4	JACK CAPPS	1633 WEBSTER ST. LEAGUE CITY, TX 77573
5	PEGGY GROCE	2509 BUCKINGHAM DR. SANFORD, NC 27330
14	LIZZIE COLE	805 COLLETON RD. RALEIGH, NC 27610
30	HOMESTEAD INC.	P.O. BOX 367 SANFORD, NC 27331
33	W.C. WILSON, JR.	814 CASTLEBERRY CT. VASS, NC 28394
34	ALBERT WOMBLE	P.O. BOX 3609 SEAL BEACH, CA 90740
40	CLINTON BRYAN	256 LAKEVIEW DR. SANFORD, NC 27330
44	DESSIE WILLIAMS	P.O. BOX 2222 SANFORD, NC 27331
63	UNKNOWN	

NCDOT

DIVISION OF HIGHWAYS
LEE COUNTY

PROJECT: 3443L1L1 (R-2417C)

US 421/NC 87 (SANFORD BYPASS)
FROM EAST OF NC 42 TO NC 87
NEAR SR 1138

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS						SURFACE WATER IMPACTS					
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing In Wetlands (ac)	Hand Clearing In Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Relocated Channel (ft)		
1	YRPC 10+97LT To 12+71RT	ROADWAY FILL	0.41			0.02								
2	13+00 +/- YRPC-	2 @ 9'x9' RCBC							0.05	<.01	312			
	613+28 +/- LREV	2 @ 9'x9' RCBC							0.10		540			
3	613+00 +/- -LREV-	ROADWAY FILL	0.06											
	26+64 +/- -Y- to 22+35 +/- -Y- LT.	ROADWAY FILL	0.43											
4	18+20-YRPB-LT 19+84-YRPB-LT	ROADWAY FILL 2 @ 6'x6' RCBC								0.01		80		
5	20+20 +/- -Y- RT. 19+18 +/- -YRPB- 19+58-YRPB- 19+94 +/- Y-LT	ROADWAY FILL 2 @ 9'x9' RCBC 2 @ 9'x9' RCBC 2 @ 6'x6' RCBC	0.03	0.01								252 143 175		117
6	10+50 -YRPD- 6+25 -YRPA-	ROADWAY FILL & 48" & 60" RCP ROADWAY FILL & 60" RCP										393	33	
SHEET TOTALS:			0.93	0.01		0.02			0.31	0.04	2120	272		

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LEE COUNTY
WBS - 34431.1.1 (R-2417C)

SHEET 4 of 31
1/22/2009

WETLAND PERMIT IMPACT SUMMARY													
SURFACE WATER IMPACTS													
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS						SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing In Wetlands (ac)	Hand Clearing In Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Relocated Channel (ft)	
7	13+62 -FRONT-	2 @ 10'x10' RCBC							0.04	0.01	121	117	
8	643+75 -LREV- RT.	ROADWAY FILL	0.09			<0.01			0.02	<0.01	442	32	
9	649+80 -LREV-	ROADWAY FILL	0.11	0.02		<0.01							
10	26+60 -RFLY-	ROADWAY FILL	0.23						0.01	0.01	120	105	
	665+00 -LREV-	POND							2.83				
	20+00 -RFLY-	ROADWAY FILL	0.02										
11	19+68 -RFLY-	ROADWAY FILL							0.06		700		
	678+00 -LREV- LT.	72" RCP & ROADWAY FILL							0.06	<0.01	690	15	
12	680+00 -LREV- LT.	POND							0.03				
13	690+00 -LREV- LT.	ROADWAY FILL							0.01		266		
14	45+25-Y-RT	ROADWAY FILL							0.01	<0.01	107	43	47
SHEET TOTALS:			0.45	0.02		<0.01			3.07	0.02	2446	312	47

NOTES:

SITE 9 0.003ac OF SW IMPACTS INSIDE THE WETLAND HAVE BEEN SUBTRACTED OUT OF WETLAND IMPACTS.

SITE 12 DOES NOT HAVE A STREAM IMPACT AS ORIGINALLY SHOWN BECAUSE THE STREAM IS NOW FILLED WITH RIP-RAP.

SITES 13 & 14 ARE NEW SITES THAT REQUIRES NO MITIGATION.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LEE COUNTY
 WBS - 34431.1.1 (R-2417C)

SHEET 5 of 31 1/22/2009

WETLAND PERMIT IMPACT SUMMARY

Site No.	ORIGINAL PERMIT IMPACTS						REVISED IMPACTS					
	Fill In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Existing Channel Impacted (ft)	Permanent Fill In Wetlands (ac)	Temp Fill In Wetlands (ac)	Mechanized Clearing In Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel impacts Temp. (ft)
1	0.22					0.41		0.02				
2			0.13		781				0.15		852	
2**			0.01		200							
3	0.48					0.49						
4			0.02		177					0.02		122
5	0.05		0.11		774	0.03	0.01		0.09	0.02	427	117
5**			0.00		115				<.01		143	
6			0.07		394				0.07	<.01	698	33
7			0.01		82				0.04	0.01	121	117
8	0.12		0.02		371	0.09		<.01	0.02	<.01	442	32
9	0.23					0.11	0.02	<.01				
TOTALS:	1.10		0.38		2894	1.13	0.03	0.02	0.37	0.05	2683	421

NOTES:

PROJECT FILL SLOPES CHANGED FROM 2:1 TO 3:1 (ORIGINAL VS REV) DUE TO SOIL INSTABILITY ISSUES.

"2**" IS NO LONGER A STREAM.

"5**" INTERMITTENT STREAM REQUIRING NO MITIGATION

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LEE COUNTY
WBS - 34431.1.1 (R-2417C)

SHEET 7 of 31

1/22/2009

WETLAND PERMIT IMPACT SUMMARY

Site No.	ORIGINAL PERMIT IMPACTS						REVISED IMPACTS					
	Fill In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Existing Channel Impacted (ft)	Permanent Fill In Wetlands (ac)	Temp Fill In Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)
10	0.02			2.84		0.25			2.84	0.01	120	105
11			0.10		1329				0.12	<.01	1390	15
12			0.01		79				0.03			
13									0.01		266	
14									0.01	<.01	107	43
15	1.86	0.17				2.18		0.23				
16	0.06	0.01	0.04		430	0.11		0.01	0.03	<.01	566	11
SHT 1 TOTALS:	1.10		0.38		2894	1.13	0.03	0.02	0.37	0.05	2683	421
GRAND TOTALS:	3.04	0.18	0.49	2.84	4732	3.67	0.03	0.26	3.41	0.06	5132	595

NOTES:

SITE 12 DOES NOT HAVE A STREAM IMPACT AS ORIGINALLY SHOWN BECAUSE THE STREAM IS NOW FILLED WITH RIP-RAP.

SITE 13 & 14 ARE NEW SITES.

SITES 15 & 16 ARE INCLUDED IN PROJ. R-2417BB BUT ARE NOW A PART OF R-2417C.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LEE COUNTY
WBS - 34431.1.1 (R-2417C)

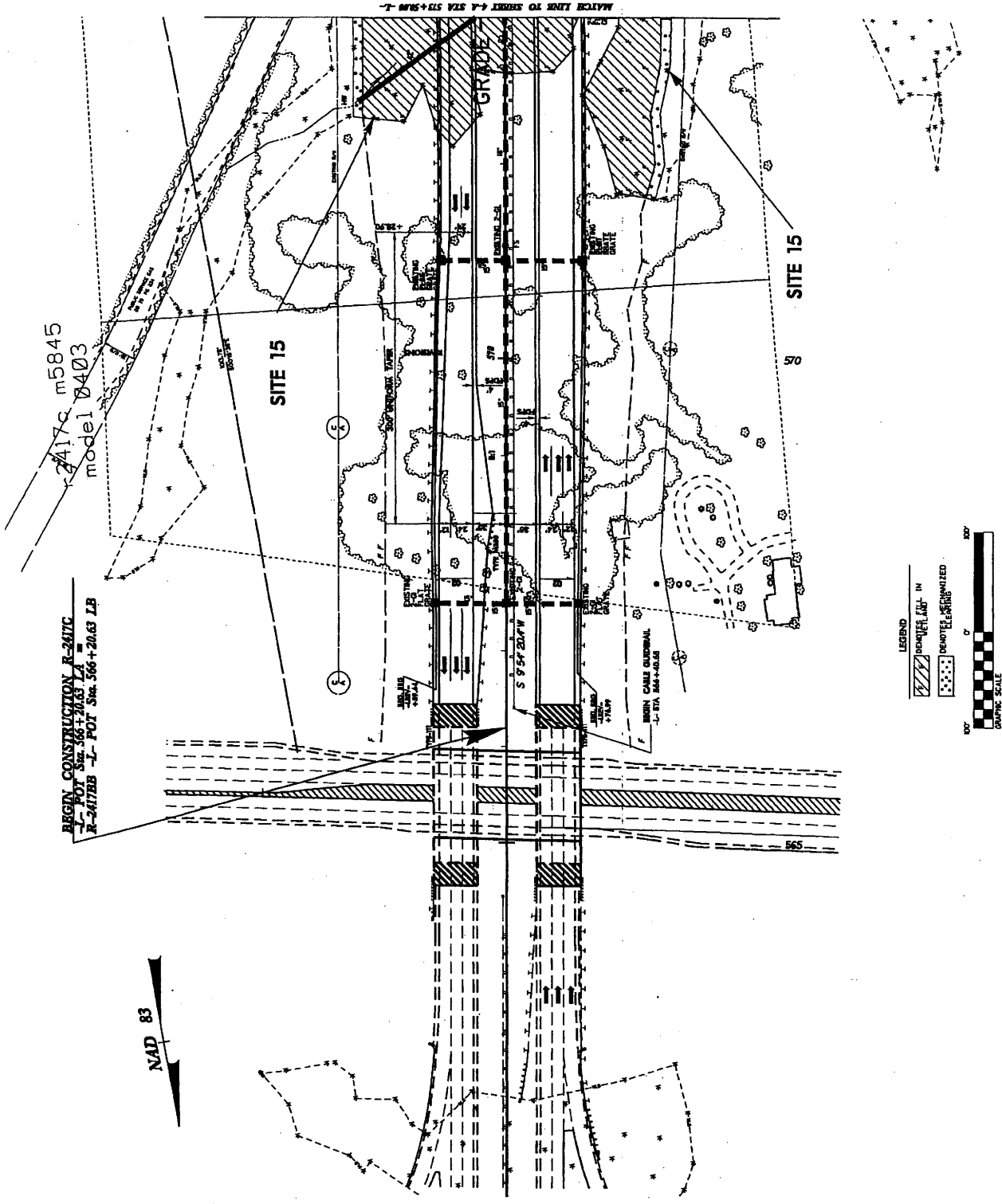
8 of 31

SHEET 1/22/2009

PROJECT SURVEY NO. R-2417C	SHEET NO. 4
DATE SHEET NO. APPROVED DESIGN NUMBER	HYDRAULICS ENGINEER

Permit Drawing
Sheet 10 of 31

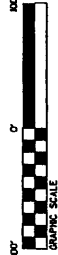
250



BEGIN CONSTRUCTION R-2417C
 POT Sta. 565+14.63 LA
 R-2417BB -L- POT Sta. 566+20.63 LB

R-2417C m5845
 model 0403

LEGEND
 PROPOSED CUT-IN
 DEMOLISHED/RECONSTRUCTED



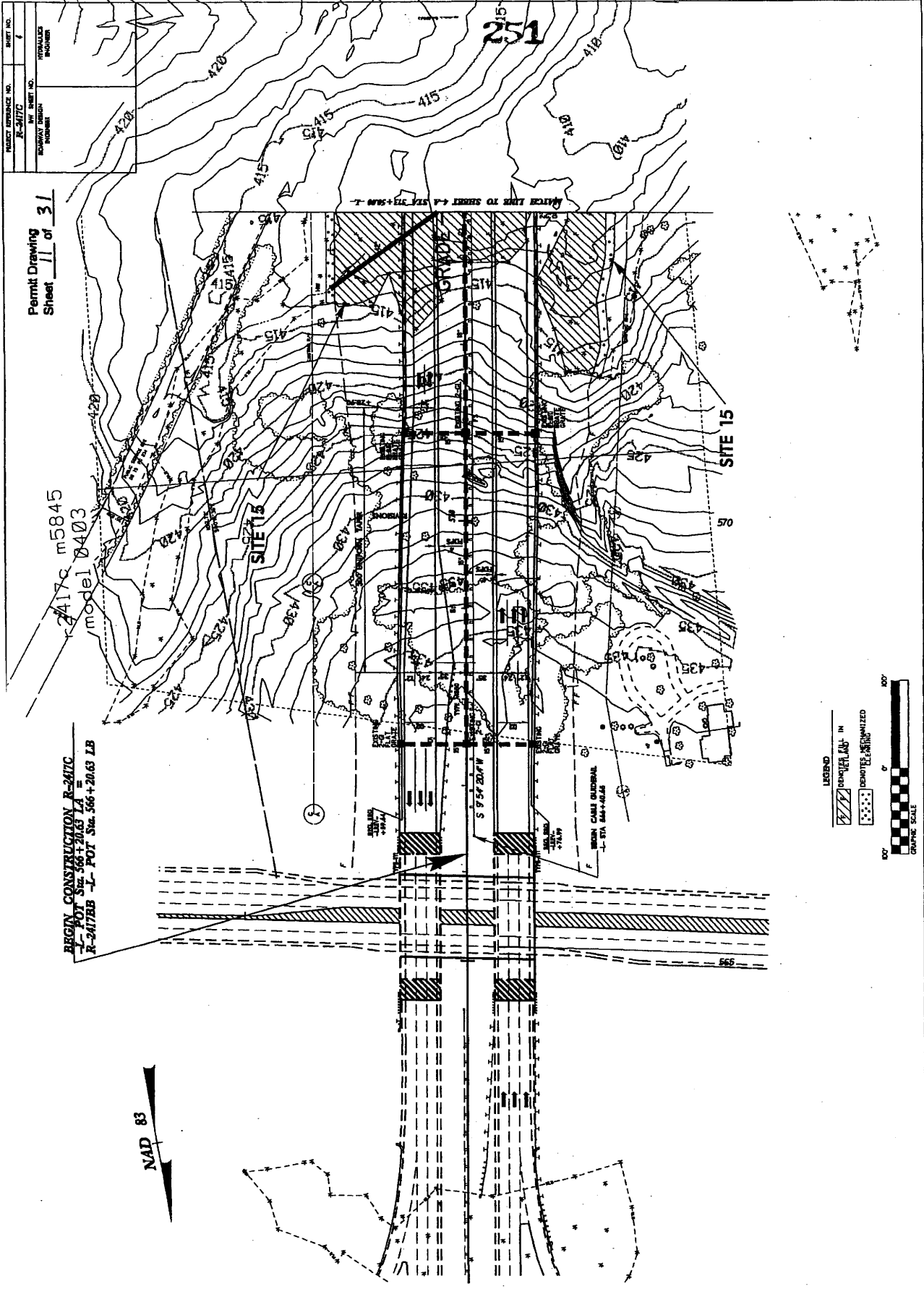
PROJECT REFERENCE NO. R-2417C	SHEET NO. 4
HWY SHEET NO. R-2417C	HYDRAULIC ENGINEER
ROADWAY DESIGN NUMBER	ENGINEER

Permit Drawing
Sheet 11 of 31

R-2417C m5845
model 0403

BEGIN CONSTRUCTION R-2417C
-L- POT Sta. 566+20.63 LA =
R-2417BB -L- POT Sta. 566+20.63 LB

NAD 83



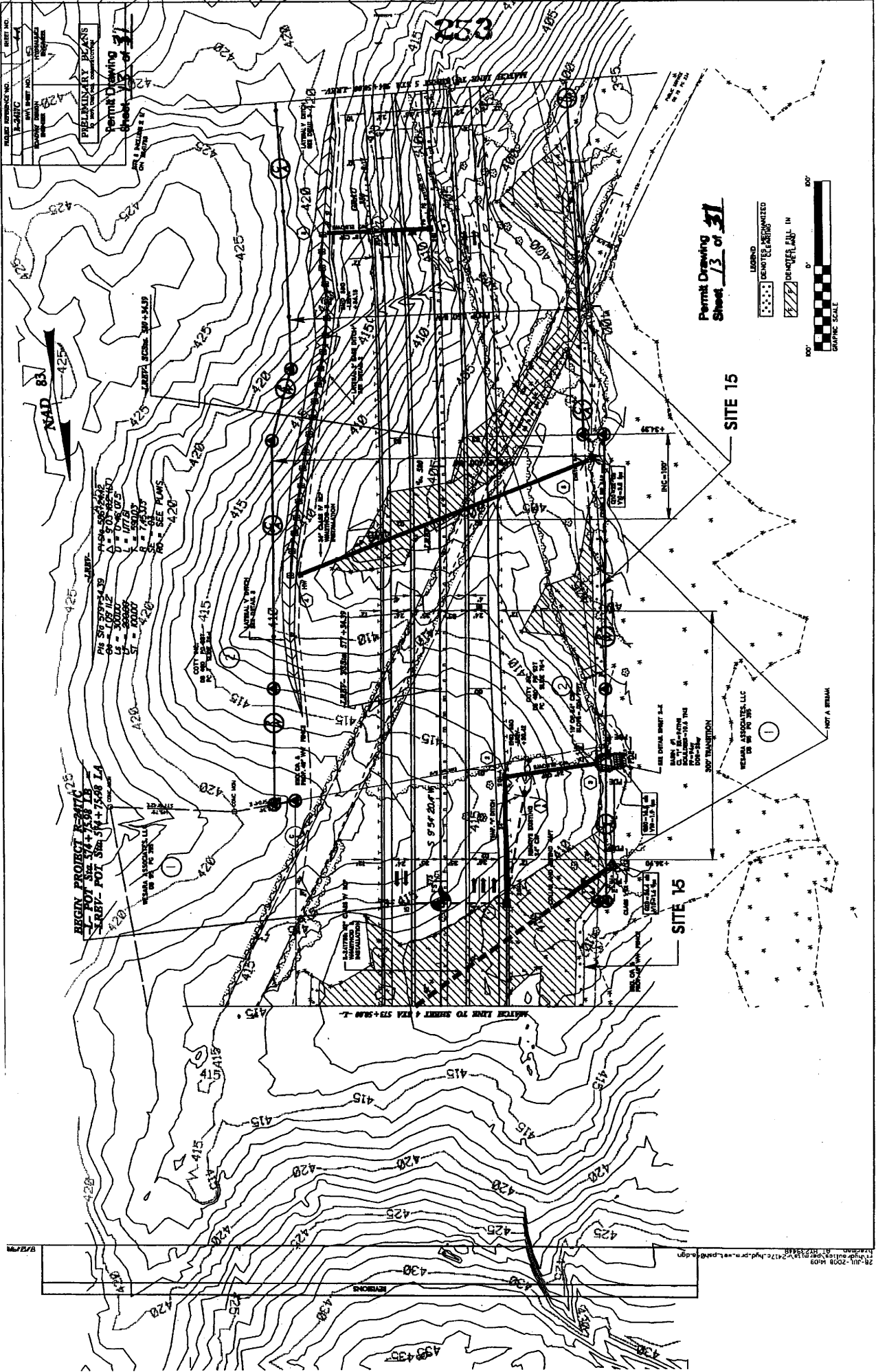
LEGEND

	PERMIT ONLY IN
	REMOVES EXISTING



12/2/06

23-Jul-2008 07:26
F:\highway\080715\2417c\hpd\p.m.e\pshb.dgn
11/22/2008 01:12:23.81



SHEET NO. 14
 PROJECT NO. 1-2010
 DATE: 07/20/10
 DRAWN BY: J. L. HARRIS
 CHECKED BY: J. L. HARRIS
 PERMITTED BY: J. L. HARRIS
 PRELIMINARY BEARS
 Permit Drawing
 Sheet 13 of 31

Permit Drawing
 Sheet 13 of 31

LEGEND
 DEMONSTRATED
 DEMAND FOR IN



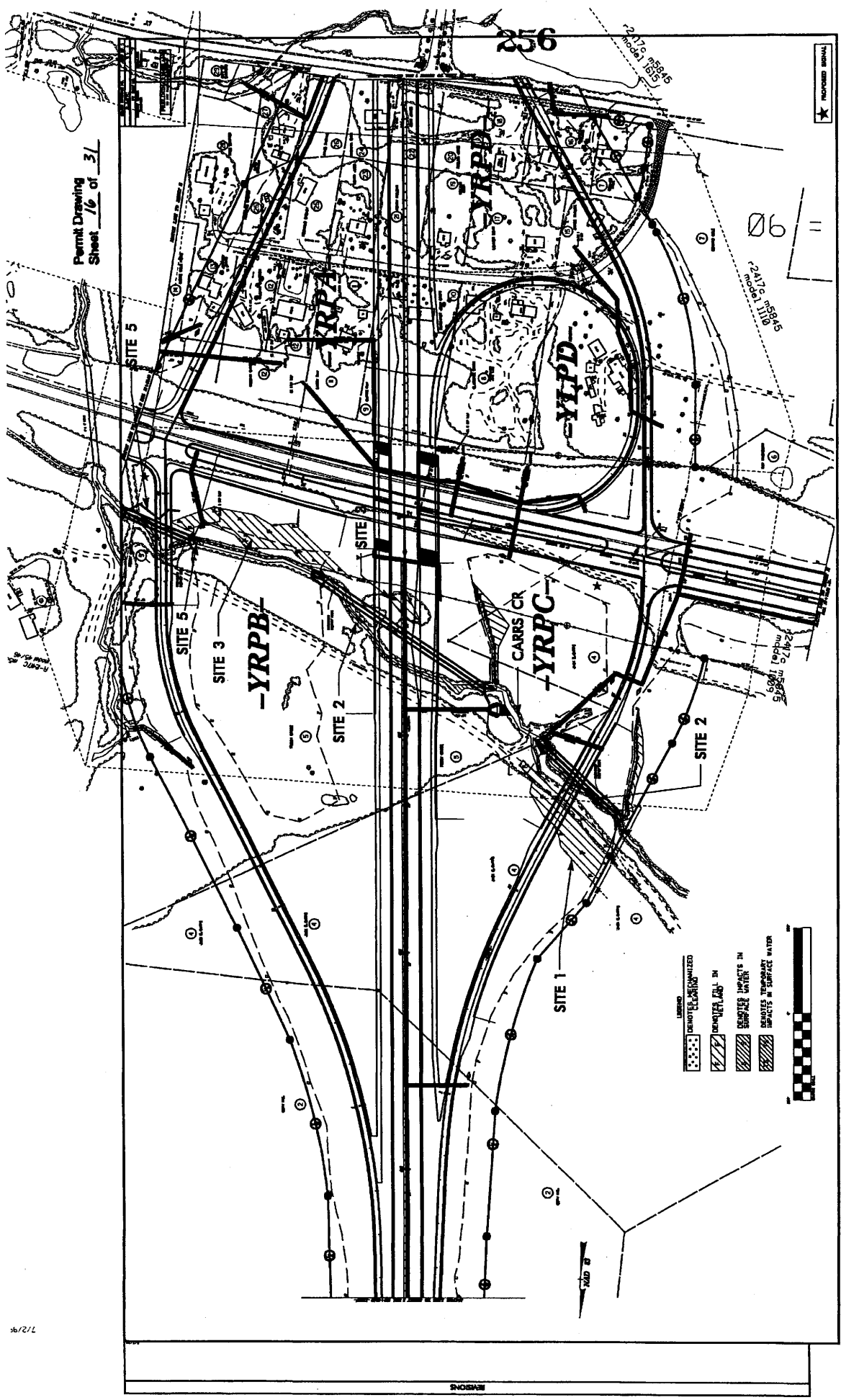
BEGIN PROJECT BEARING
 L-1 POT. STA. 574+75.81
 L-2 REV. POT. STA. 574+75.81
 L-3 POT. STA. 574+75.81
 L-4 POT. STA. 574+75.81
 L-5 POT. STA. 574+75.81
 L-6 POT. STA. 574+75.81
 L-7 POT. STA. 574+75.81
 L-8 POT. STA. 574+75.81
 L-9 POT. STA. 574+75.81
 L-10 POT. STA. 574+75.81
 L-11 POT. STA. 574+75.81
 L-12 POT. STA. 574+75.81
 L-13 POT. STA. 574+75.81
 L-14 POT. STA. 574+75.81
 L-15 POT. STA. 574+75.81
 L-16 POT. STA. 574+75.81
 L-17 POT. STA. 574+75.81
 L-18 POT. STA. 574+75.81
 L-19 POT. STA. 574+75.81
 L-20 POT. STA. 574+75.81
 L-21 POT. STA. 574+75.81
 L-22 POT. STA. 574+75.81
 L-23 POT. STA. 574+75.81
 L-24 POT. STA. 574+75.81
 L-25 POT. STA. 574+75.81
 L-26 POT. STA. 574+75.81
 L-27 POT. STA. 574+75.81
 L-28 POT. STA. 574+75.81
 L-29 POT. STA. 574+75.81
 L-30 POT. STA. 574+75.81
 L-31 POT. STA. 574+75.81
 L-32 POT. STA. 574+75.81
 L-33 POT. STA. 574+75.81
 L-34 POT. STA. 574+75.81
 L-35 POT. STA. 574+75.81
 L-36 POT. STA. 574+75.81
 L-37 POT. STA. 574+75.81
 L-38 POT. STA. 574+75.81
 L-39 POT. STA. 574+75.81
 L-40 POT. STA. 574+75.81
 L-41 POT. STA. 574+75.81
 L-42 POT. STA. 574+75.81
 L-43 POT. STA. 574+75.81
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 L-59 POT. STA. 574+75.81
 L-60 POT. STA. 574+75.81
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 L-92 POT. STA. 574+75.81
 L-93 POT. STA. 574+75.81
 L-94 POT. STA. 574+75.81
 L-95 POT. STA. 574+75.81
 L-96 POT. STA. 574+75.81
 L-97 POT. STA. 574+75.81
 L-98 POT. STA. 574+75.81
 L-99 POT. STA. 574+75.81
 L-100 POT. STA. 574+75.81

SEE DETAIL SHEET 14
 MAIN AT
 C.V. BEARING
 TO BE DETERMINED
 BY THE
 ENGINEER
 SEE TRIBUTION

SITE 15

SITE 15

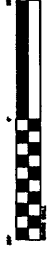
NOT A STREAM



Permit Drawing
Sheet 16 of 31

RV = 90
N

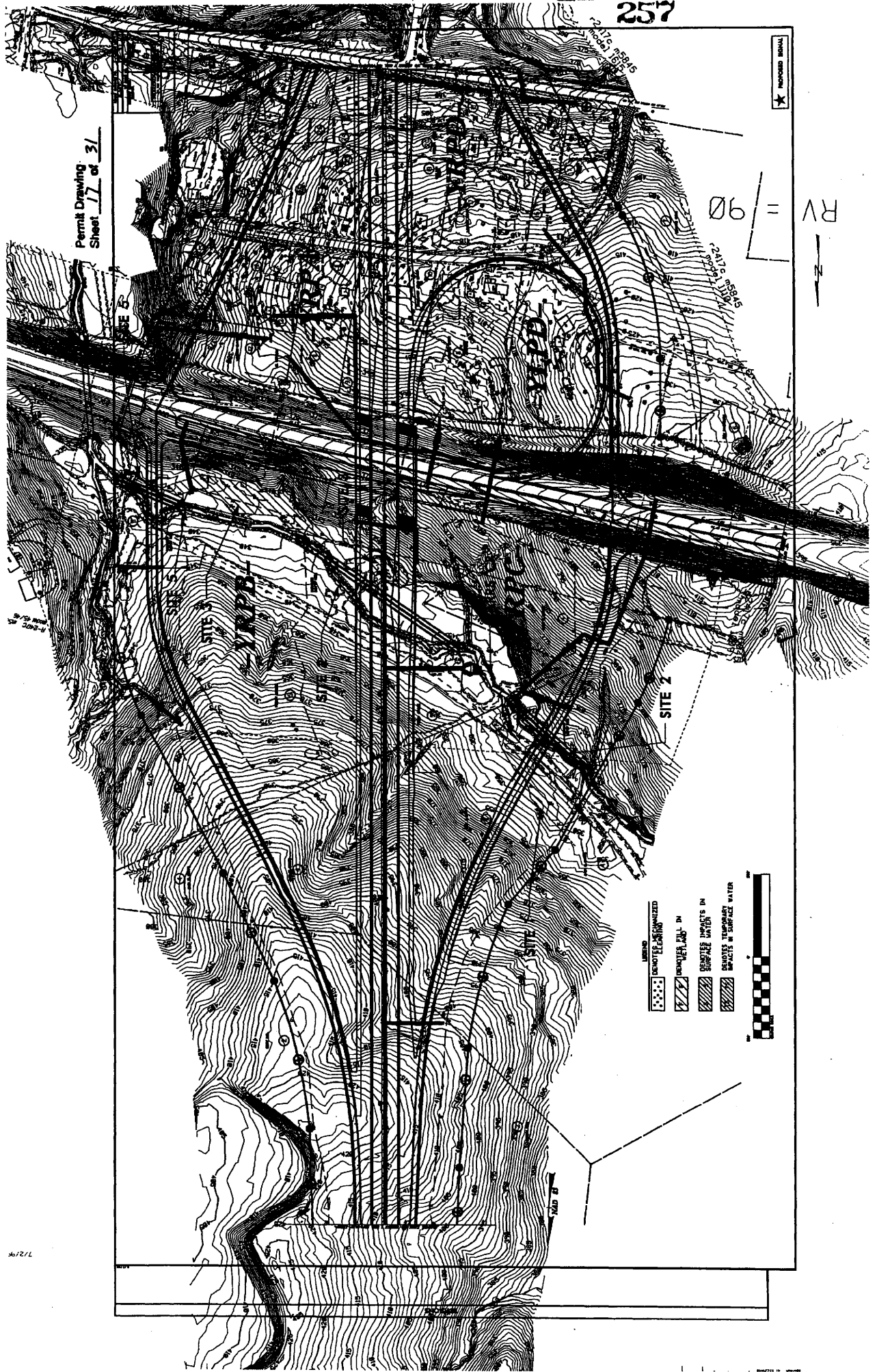
- LEGEND
- [Dotted pattern] DEMONSTRATED
 - [Diagonal lines /] DEMONSTRATED IN
 - [Diagonal lines \] POTENTIAL IMPACTS IN
 - [Horizontal lines] POTENTIAL IMPACTS IN
 - [Vertical lines] POTENTIAL IMPACTS IN
 - [Cross-hatch] POTENTIAL IMPACTS IN



Permit Drawing
Sheet 17 of 31

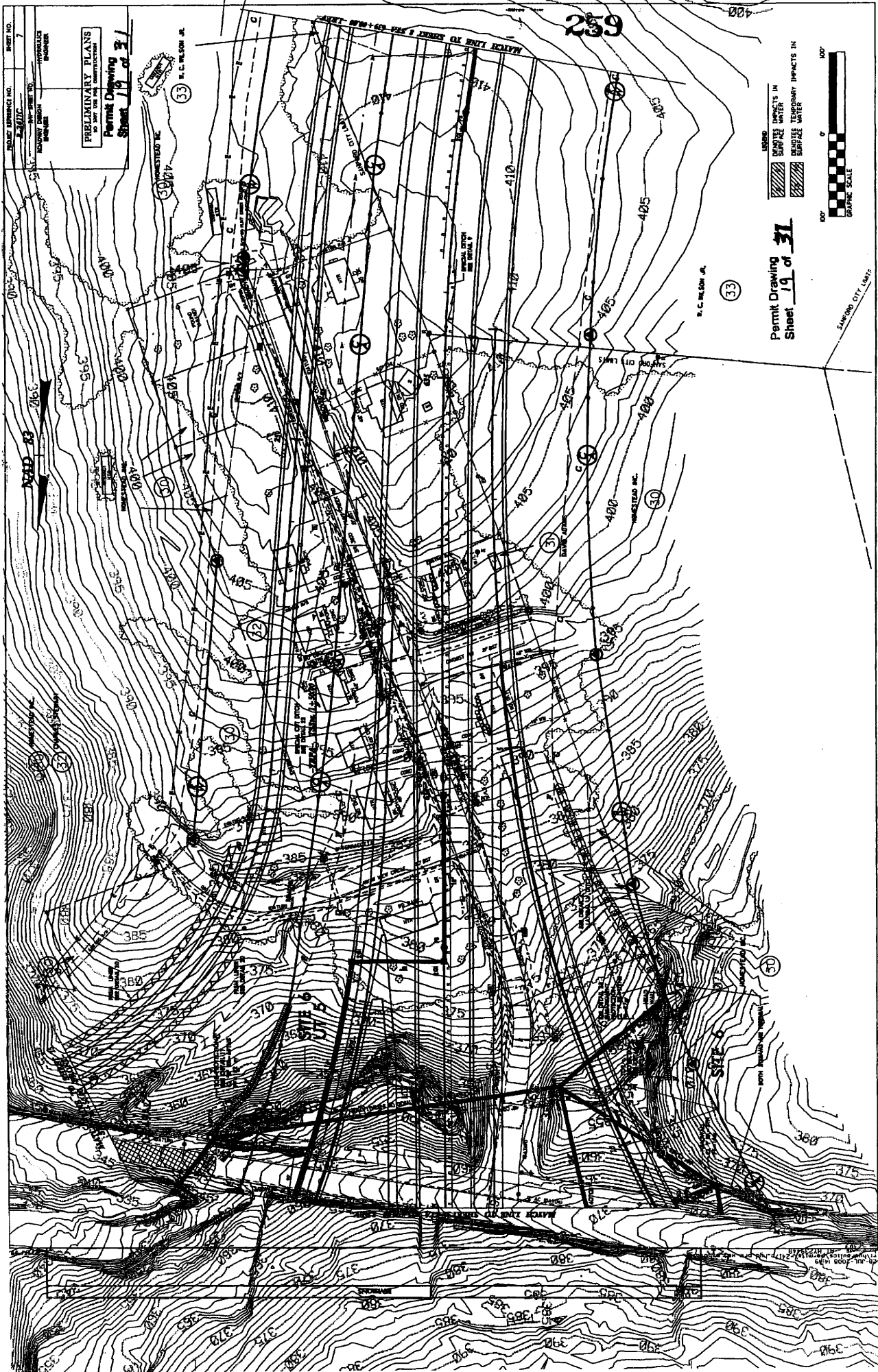


RV = 90



- UNSATURATED
- CLAY
- UNSATURATED
- UNSATURATED
- UNSATURATED
- UNSATURATED
- UNSATURATED





PROJECT NUMBER NO. 2-3070-1
SHEET NO. 7

PRELIMINARY PLANS
FOR THE SHEPARD CITY
WATER TREATMENT PLANT
PERMIT DRAWING
SHEET 19 OF 31

PRELIMINARY PLANS
FOR THE SHEPARD CITY
WATER TREATMENT PLANT
PERMIT DRAWING
SHEET 19 OF 31

LEGEND
DIAPHRAGM IMPACTS IN
SURFACE WATER
DEEPER TEMPORARY IMPACTS IN
SURFACE WATER



Permit Drawing
Sheet 19 of 31

SHEPARD CITY LIMITS

259

R.C. NELSON JR.

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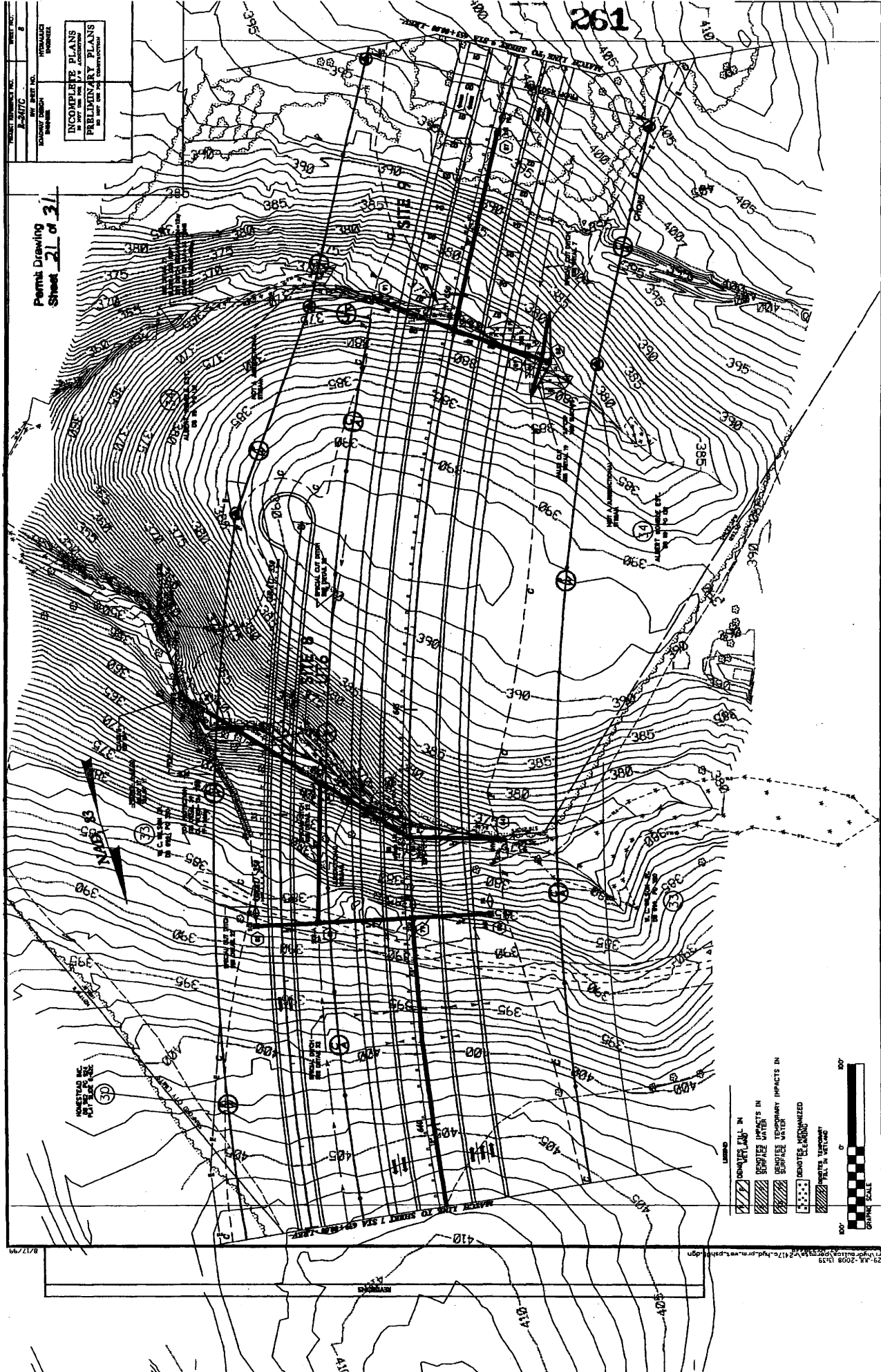
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Permit Drawing
Sheet 21 of 31

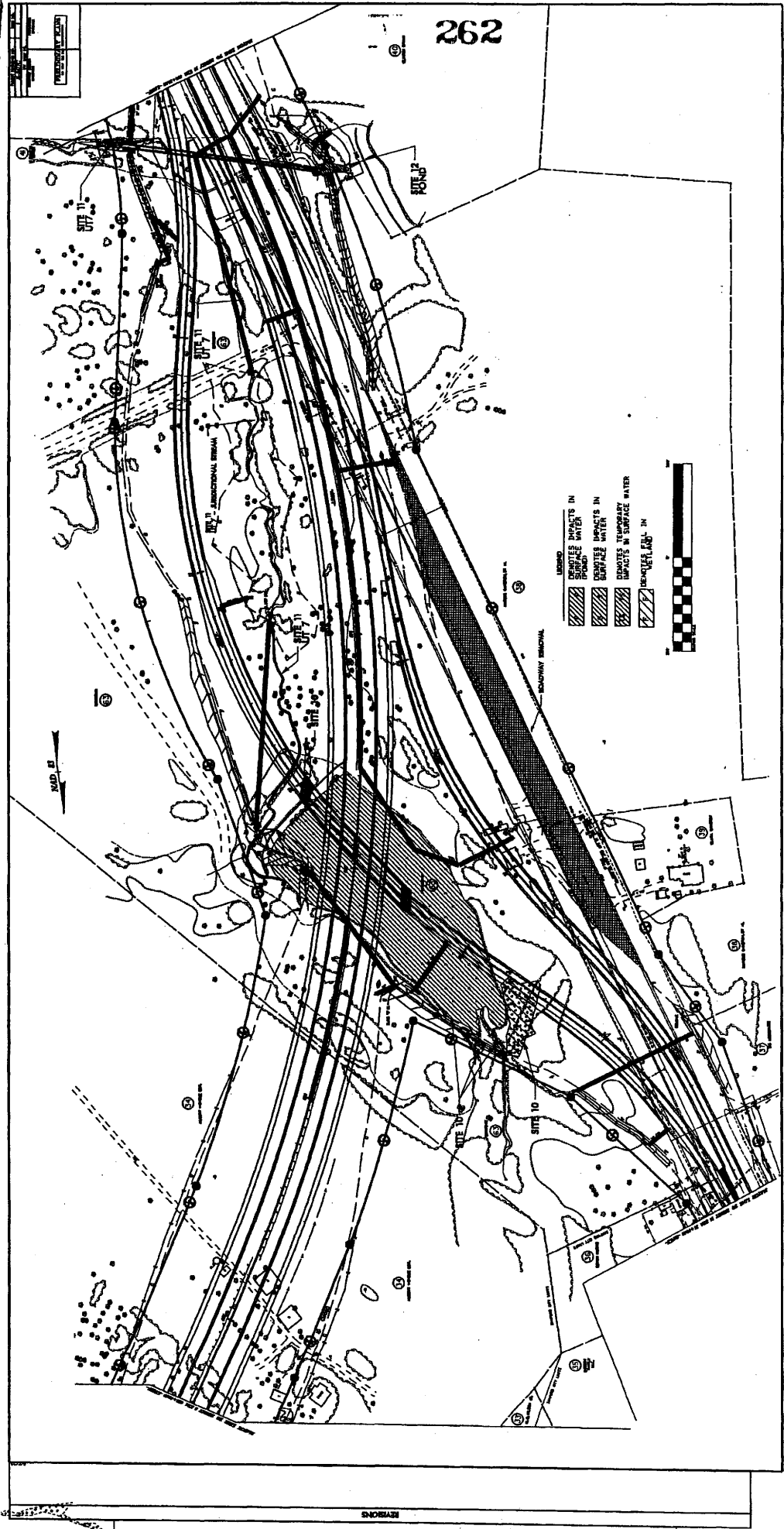
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DATE	10/17/99
DESIGNER	WALSH
CHECKER	WALSH
APPROVER	WALSH
DATE	10/17/99

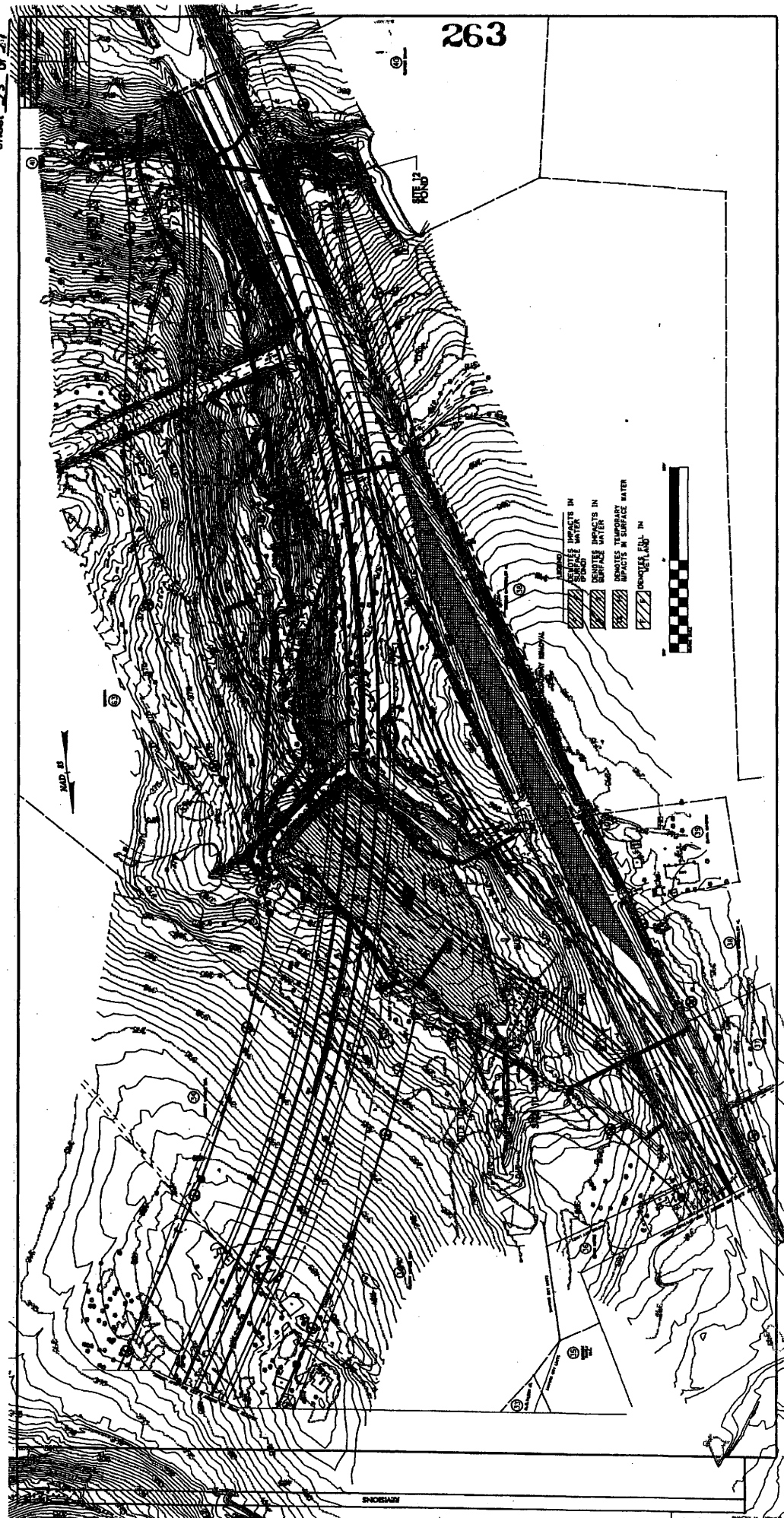
INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

LEGEND

- REMOVED FILL IN SURFACE WATER
- REMOVED VEG/PRIMARY IMPACTS IN SURFACE WATER
- REMOVED VEG/PRIMARY IMPACTS IN SURFACE WATER
- REMOVED VEG/PRIMARY IMPACTS IN SURFACE WATER
- REMOVED VEG/PRIMARY IMPACTS IN SURFACE WATER
- REMOVED VEG/PRIMARY IMPACTS IN SURFACE WATER
- REMOVED VEG/PRIMARY IMPACTS IN SURFACE WATER

GRAPHIC SCALE
0 50 100





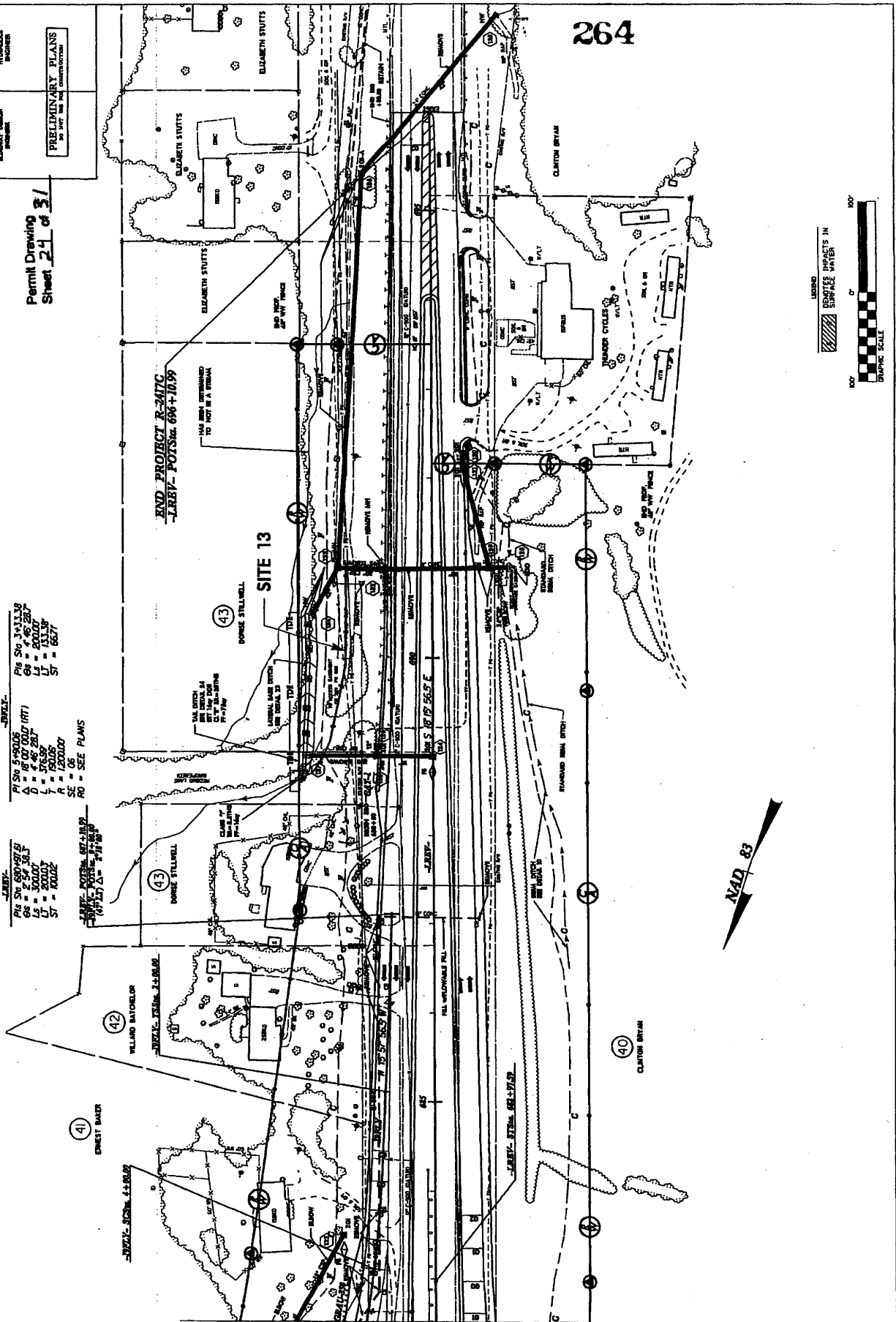
PROJECT REFERENCE NO. **R-2417C** SHEET NO. **24**
 DRAWING DESIGNER **PRELIMINARY PLANS**
 PERMIT NO. **100-10-99**

Permit Drawing
 Sheet 24 of 31

264

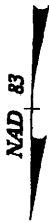
-JERBY-
 PLS 5-49005 PLS 5-41138
 Δ = 15' 00" (H/T) Δ = 4' 46" 28.7
 D = 5' 00" 28.7 L = 300.07
 J = 5' 00" 28.7 S = 65.7
 R = 120000 SE = 06
 RD = SEE PLANS

-JERBY-
 PLS 5-49005 PLS 5-41138
 Δ = 15' 00" (H/T) Δ = 4' 46" 28.7
 D = 5' 00" 28.7 L = 300.07
 J = 5' 00" 28.7 S = 65.7
 R = 120000 SE = 06
 RD = SEE PLANS



PROJECT NUMBER NO.	DATE
2-21710	11
DESIGNED BY	HYDRAULIC ENGINEER
CHECKED BY	HYDRAULIC ENGINEER
PRELIMINARY PLANS FOR THE CITY OF SAN ANTONIO	

Permit Drawing
Sheet 30 of 31

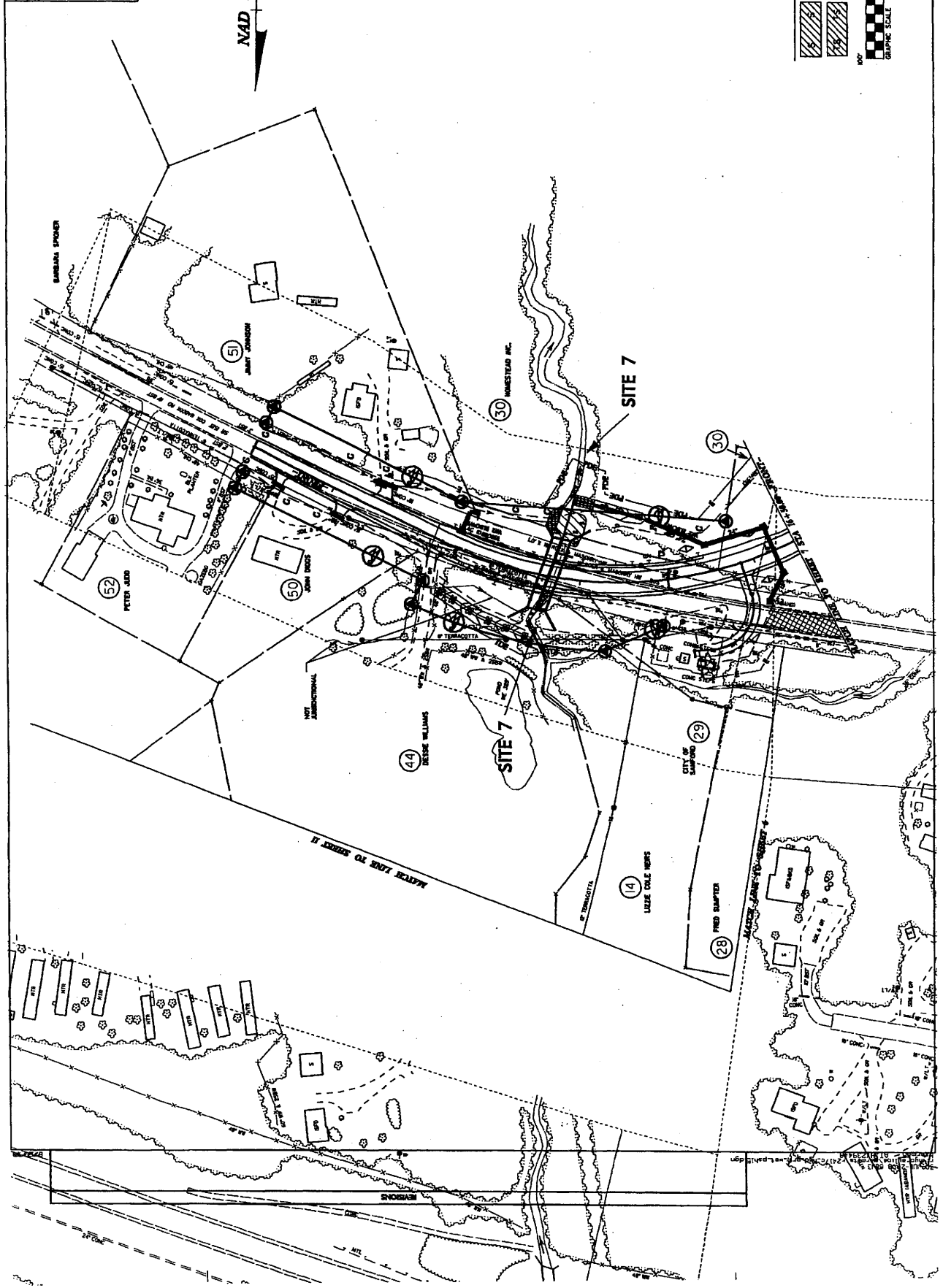


LEGEND

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

0' 100' 200'

GRAPHIC SCALE



MATCH LINE TO SHEET 29

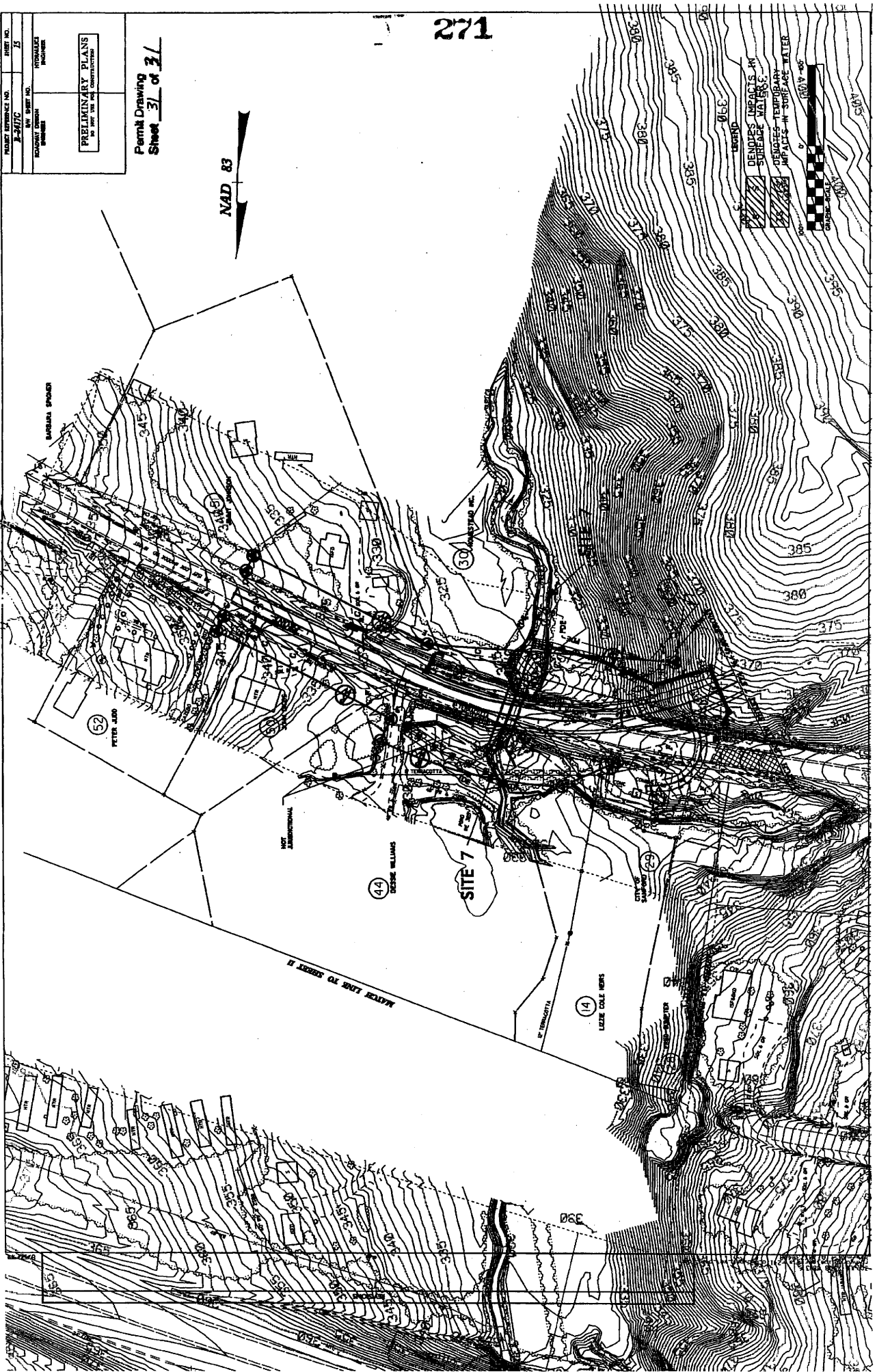
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
2-217C	75
DATE SHEET NO.	HYDRAULIC NUMBER
REVISIONS	
PRELIMINARY PLANS <small>NO PART FOR CONSTRUCTION</small>	

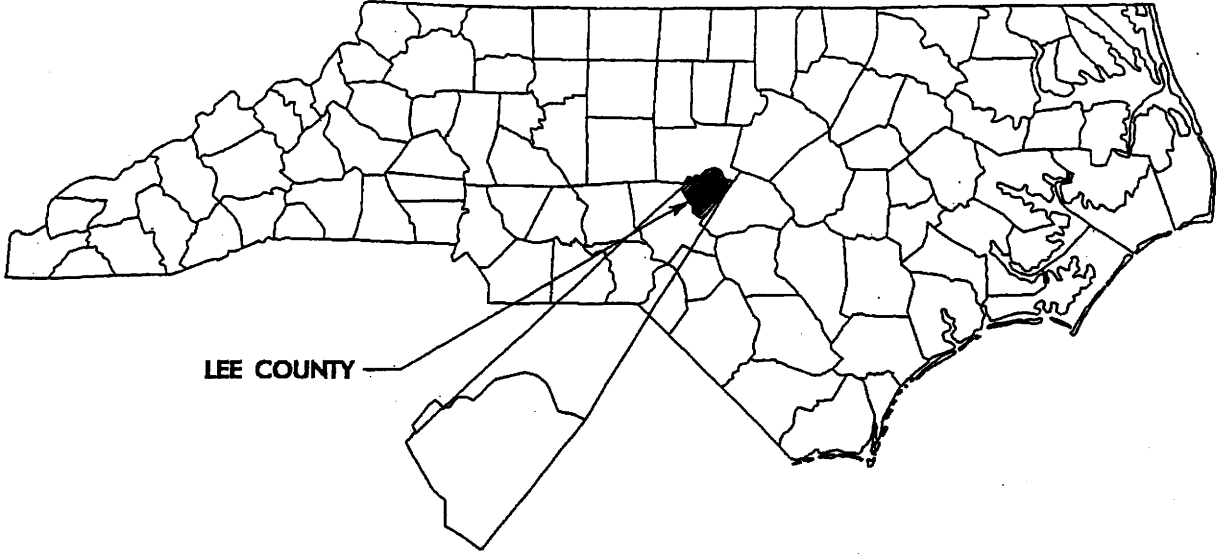
Permit Drawing
 Sheet 31 of 31



DENOTES IMPACTS BY SURFACE WATER
 DENOTES IMPACTS BY SUBSURFACE WATER
 IMPACTS BY SURFACE WATER
 SCALE: 1" = 100' (NAD 83)

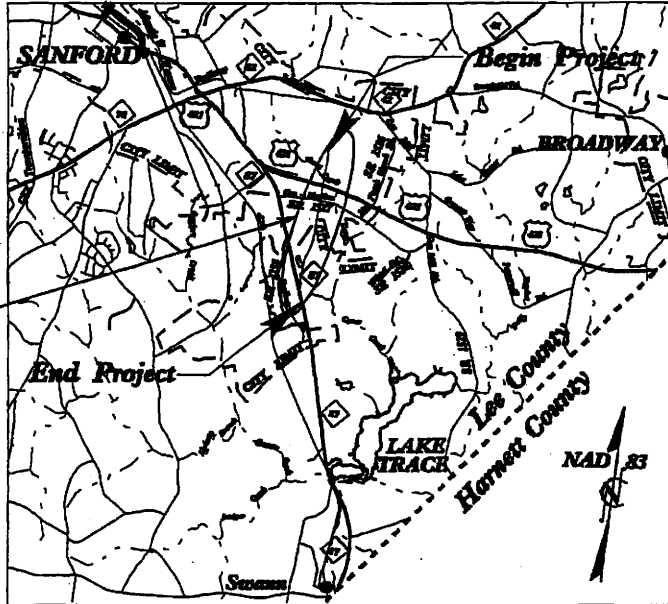


NORTH CAROLINA



LEE COUNTY

PROJECT LOCATION



UTILITY PERMIT VICINITY MAP

NCDOT

DIVISION OF HIGHWAYS

LEE COUNTY

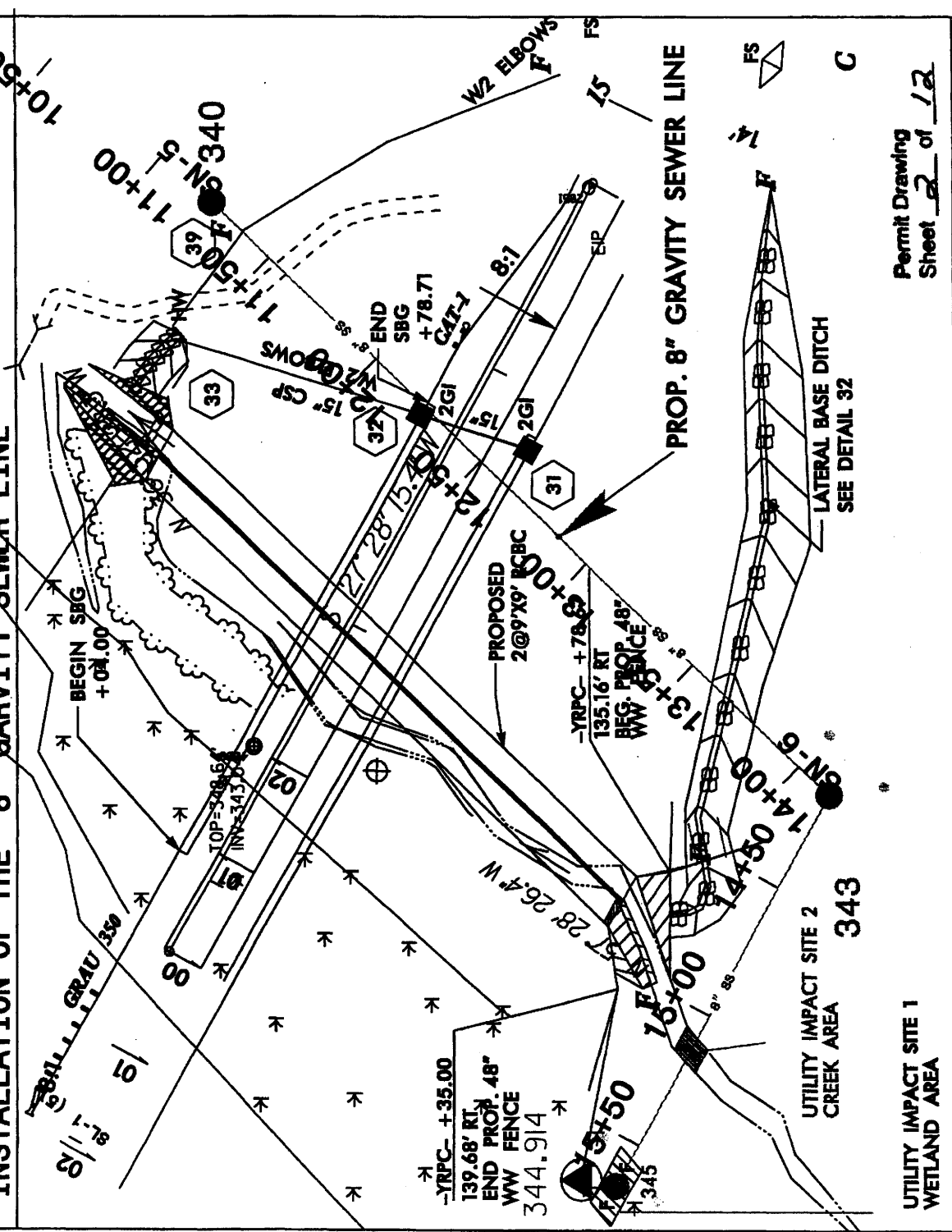
PROJECT: 34431L1 (R-2417C)

US 421/ NC 87 (SANFORD BYPASS)

FROM EAST OF NC 42 TO NC 87

NEAR SR 1138

INSTALL IMPERVIOUS DIKE TO DIVERT THE STREAM DURING
INSTALLATION OF THE 8" GARVITY SEWER LINE



Permit Drawing
Sheet 2 of 12

DENOTES IMPACTS IN
SURFACE WATER

DENOTES FILL IN
WETLAND

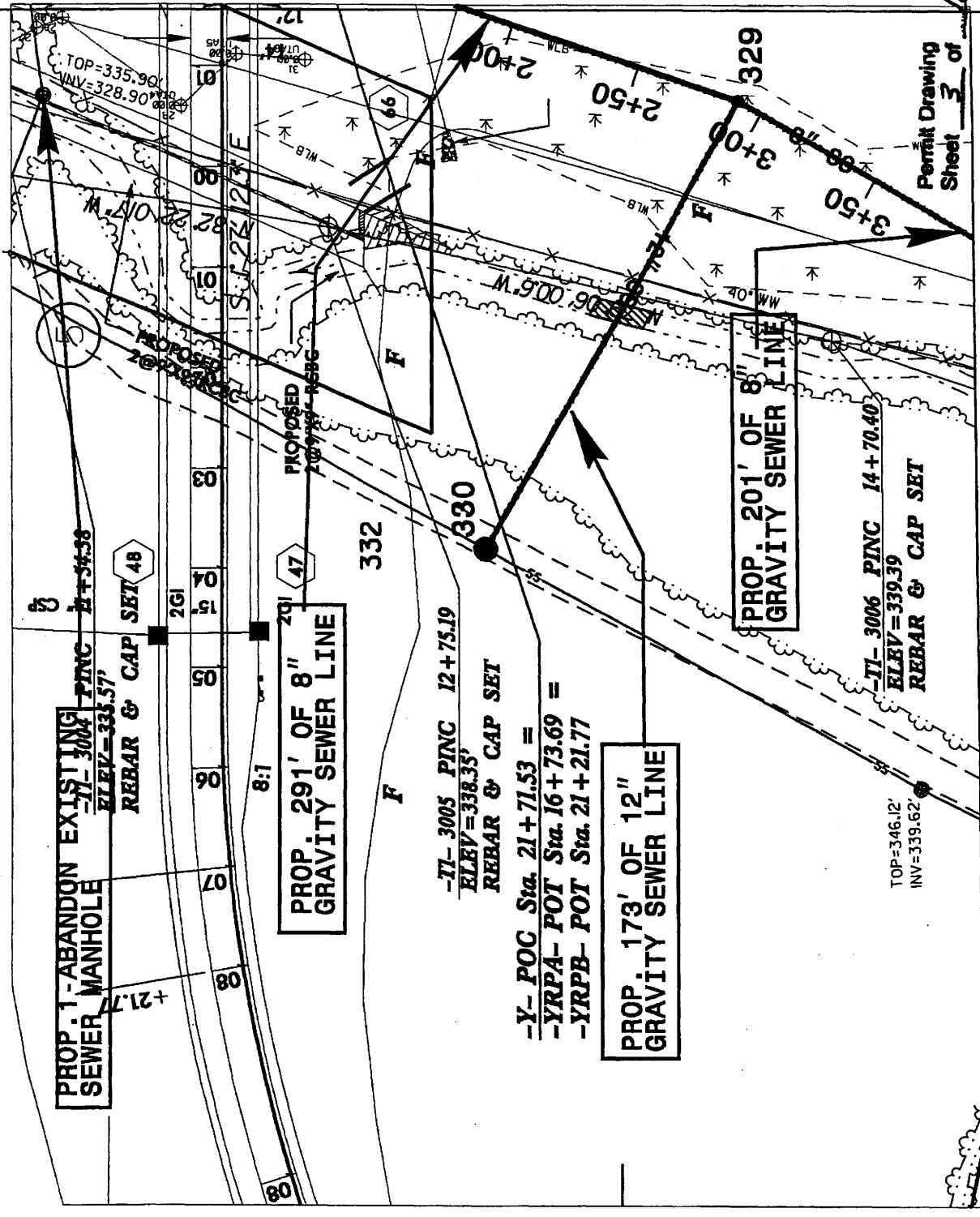
SITE 1: FILL IN THE WETLAND AREA=250 S.FT=.006 AC

SITE 2: IMPACTS IN SURFACE AREA=88 S. FT=.002 AC

UTILITY IMPACT SITE 1
WETLAND AREA

UTILITY IMPACT SITE 2
CREEK AREA

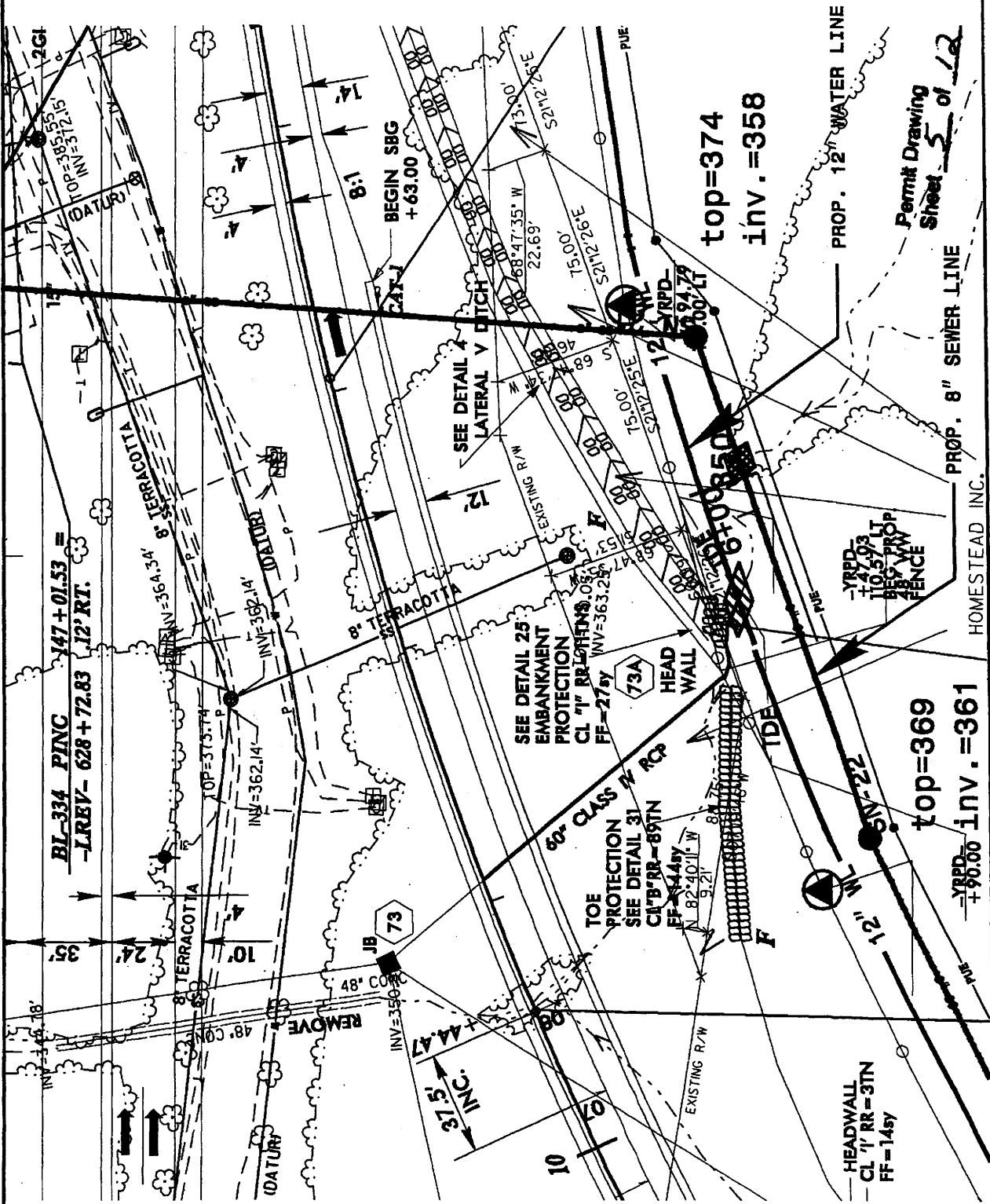
INSTALL IMPERVIOUS DIKE TO DIVERT THE STREAM DURING
INSTALLATION OF THE 8" GARVITY SEWER LINE



Permit Drawing
Sheet 3 of 12

SITE 3: UTILITY IMPACTS= .003 AC

INSTALL IMPERVIOUS DIKE TO DIVERT THE STREAM DURING INSTALLATION OF THE 8" GRAVITY SEWER AND 12" WATER LINE



SITE 5: IMPACTS IN SURFACE AREA = 254 S. FT = .006 AC
 HOMESTEAD INC.
 DENOTES IMPACTS IN SURFACE WATER
 Permit Drawing Sheet 5 of 12

WETLAND PERMIT IMPACT SUMMARY																	
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS									
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Relocated Channel (ft)					
1	YRPC STA. 11+75, 171' RT	8" SEWER LINE	0.006														
2	STA. 12+28, 171' RT	8" SEWER LINE								<.01			10				
3	YRPB STA. 18+67, 151' RT	12" SEWER LINE											10				
4	YRPD STA. 11+63, 128.3' RT STA. 11+63, 141' RT	12" WATER LINE 8" SEWER LINE											10				
5	YRPD STA. 7+69, 142' RT STA. 7+69, 142' RT	8" SEWER LINE 12" WATER LINE											10				
SHEET TOTALS:			0.006										60				

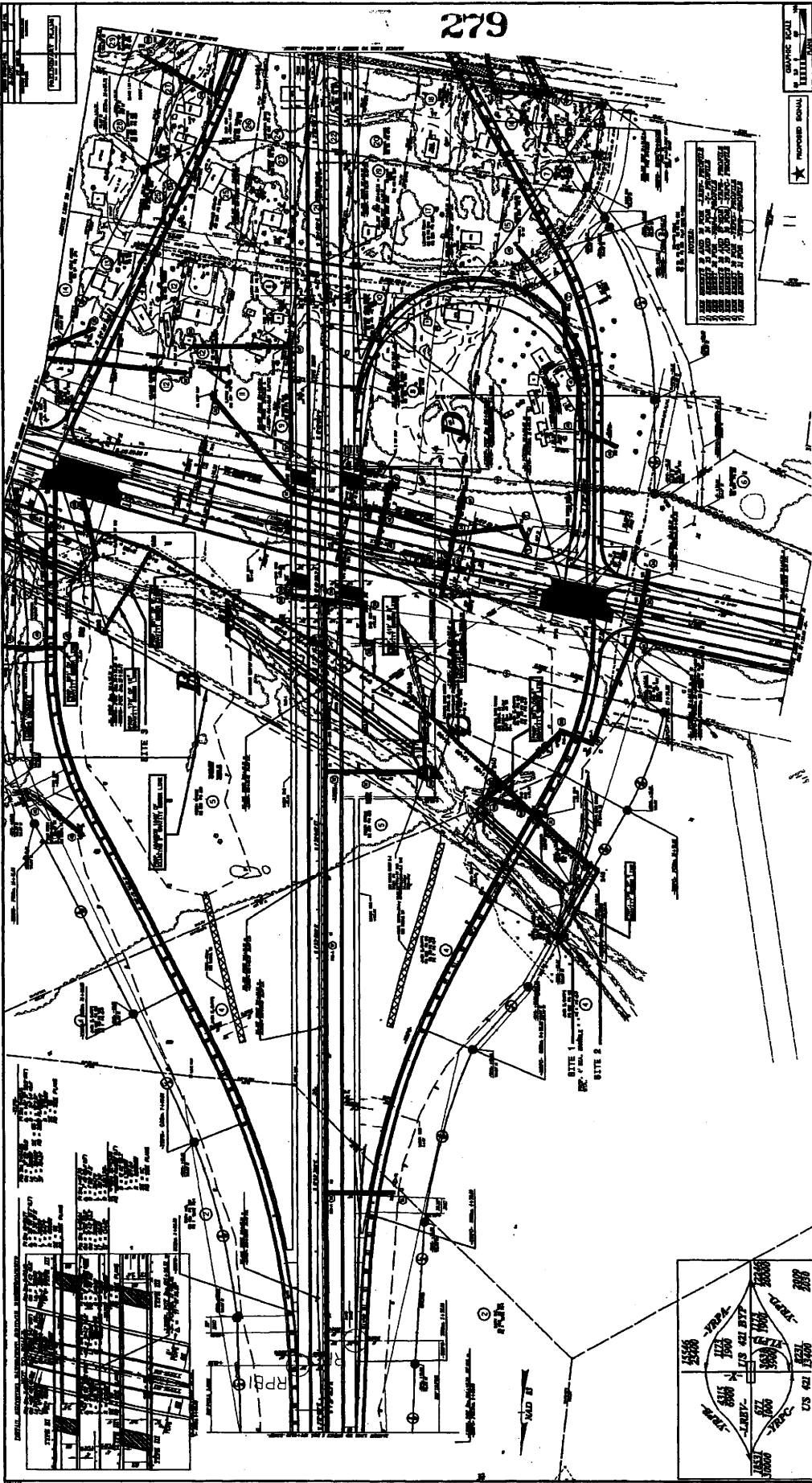
NOTES:

Utilities impacts area

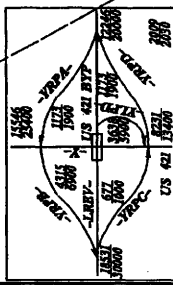
NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

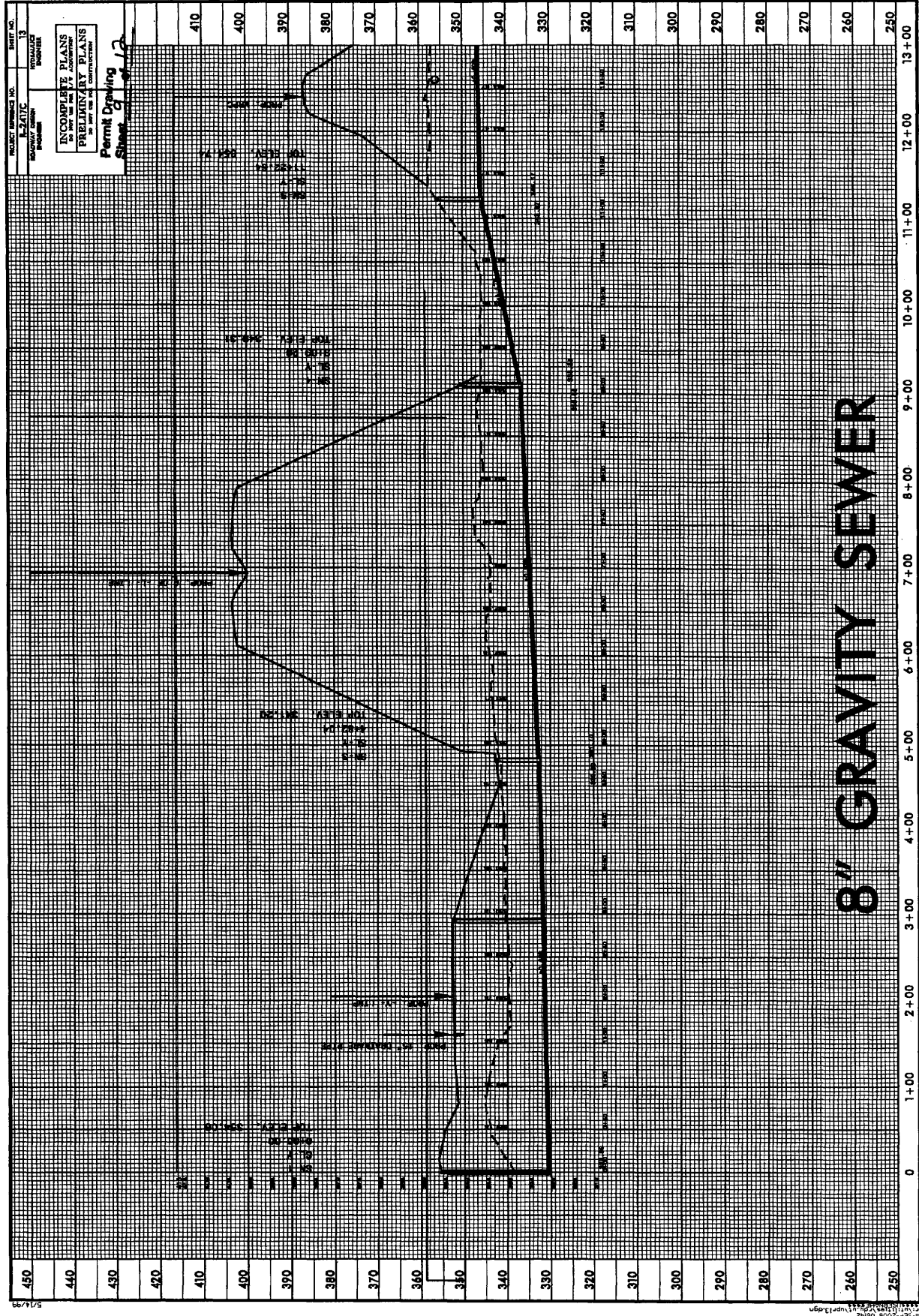
LEE COUNTY
WBS - 34431.1.1 (R-2417C)

SHEET *6 of 12* 10/2/2008



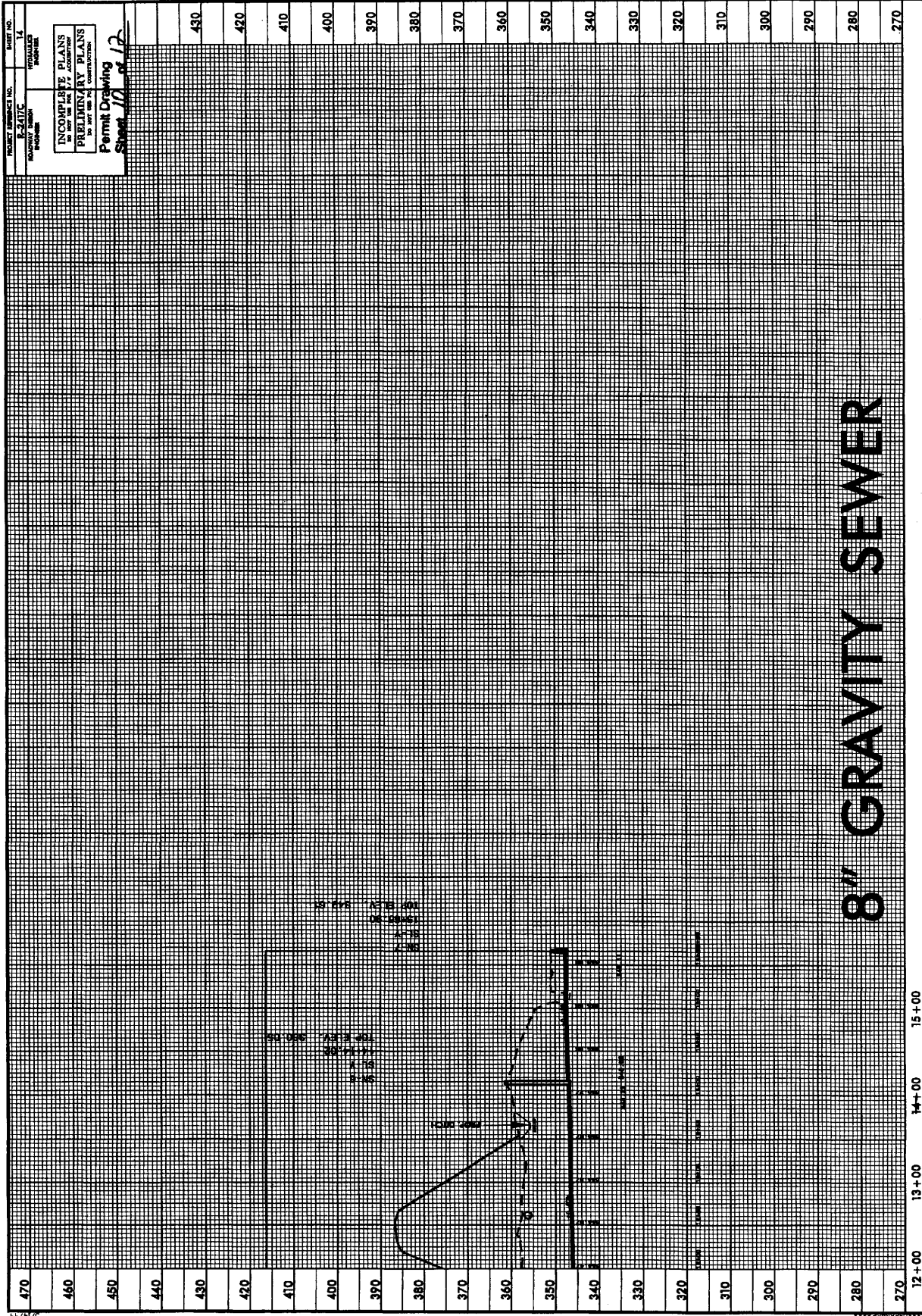
REASONS - NW SECTION, REVERSED THE RIGHT-OF-WAY CONTROL OF ACCESS AND TEMPORARY CONSTRUCTION EASEMENT ASSOCIATED WITH THE EASEMENT OF "RD. AND -11D- ON PLOTS 1, 2 AND 14, CONNECTED OFFSET FOR PERMITMENT EASEMENT ON PLOT 17, UPLAND OFFSET FOR A RIGHT OF WAY MONUMENT ON PLOT 14 AND UPLAND STATIONING FOR PERMITMENT EASEMENT ON PLOT 17 TO REJECT FIELD SURVEY - 11M





5/1/95

15P-2005 042
2000 3000 13p1399

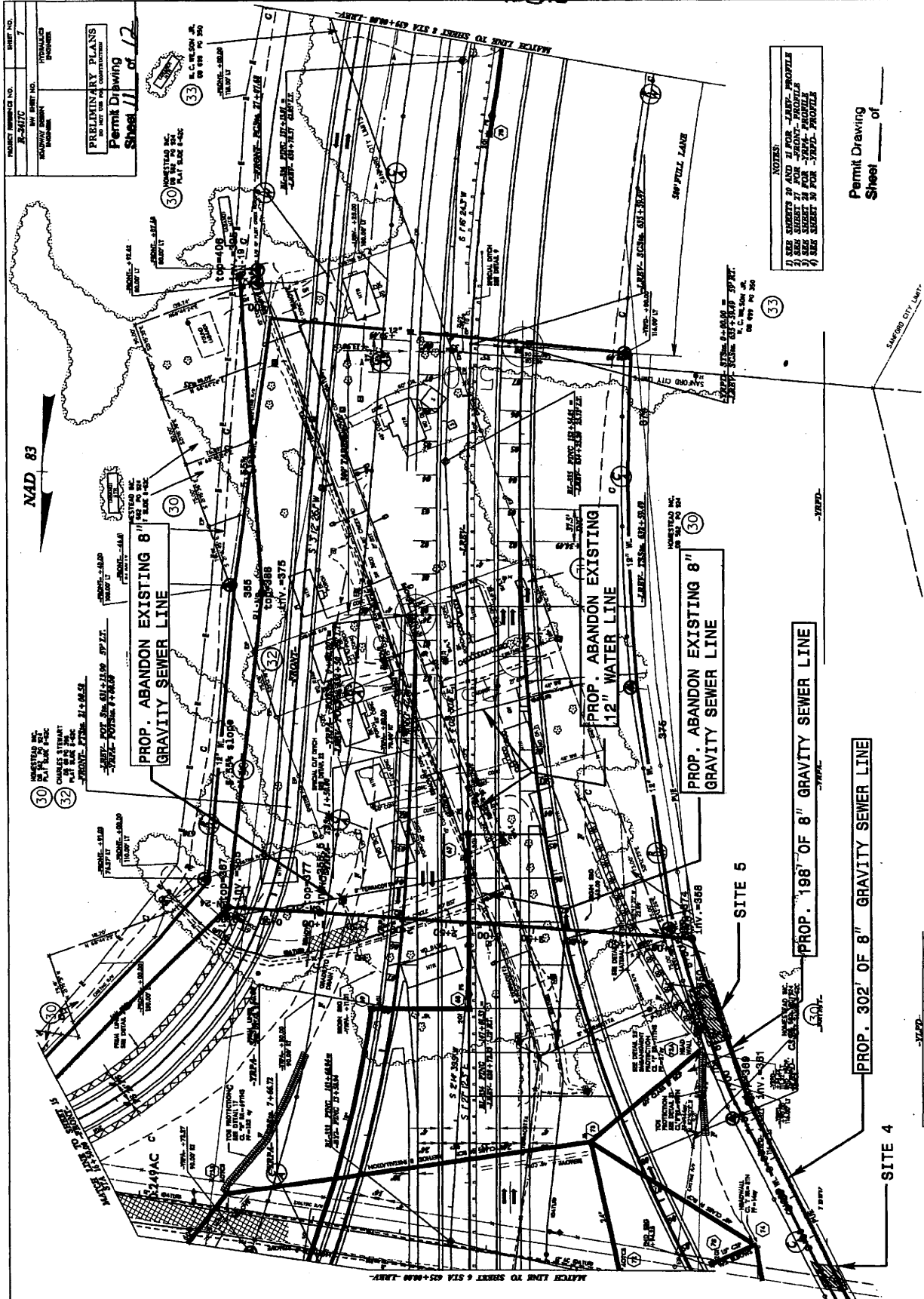


8" GRAVITY SEWER

PROJECT NUMBER: R-247/C
 SHEET NO. 12
 INCOMPLETE PLANS
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 10 of 12

470
460
450
440
430
420
410
400
390
380
370
360
350
340
330
320
310
300
290
280
270
12+00 13+00 14+00 15+00

SEP-2008 09-15
 15-14-08
 15-14-08



PROJECT NUMBER NO.	8-2470
SHEET NO.	7
BY	W. J. HARRIS
CHECKED BY	W. J. HARRIS
DATE	11/1/50

PRELIMINARY PLANS
 FOR THE
 PERMIT DRAWING
 Sheet 11 of 12

NOTES:
 1) SEE SHEETS 29 AND 31 FOR -LEAKY- PROFILES
 2) SEE SHEET 37 FOR -SEWAGE- PROFILES
 3) SEE SHEET 38 FOR -WATER- PROFILES
 4) SEE SHEET 39 FOR -STORM- PROFILES

Permit Drawing
 Sheet ___ of ___

NAD 83

30 WESTWIND DR.
 CHARLES STREET
 N.W. 1/4 SEC. 30

32 WESTWIND DR.
 CHARLES STREET
 N.W. 1/4 SEC. 30

PROP. ABANDON EXISTING 8"
 GRAVITY SEWER LINE

PROP. ABANDON EXISTING
 12" WATER LINE

PROP. ABANDON EXISTING 8"
 GRAVITY SEWER LINE

PROP. 198' OF 8" GRAVITY SEWER LINE

PROP. 302' OF 8" GRAVITY SEWER LINE

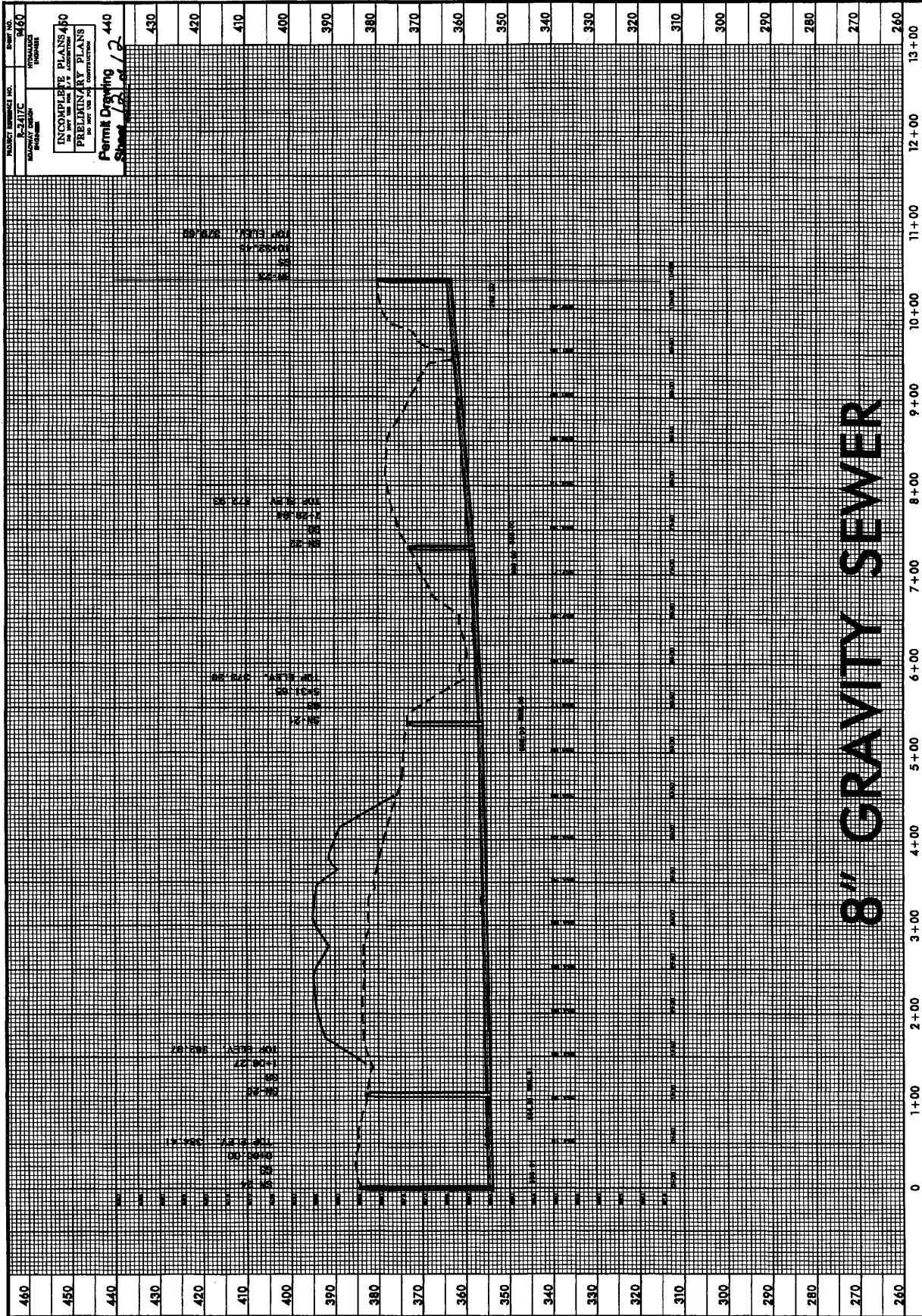
SITE 5

SITE 4

8/17/50

REVISED STATION INFORMATION ON RIGHT OF WAY MONUMENTS TO REFLECT FIELD SURVEYS ON PARCELS 27 AND 30.
 REVISED STATION INFORMATION ON TEMPORARY CONSTRUCTION EASEMENT FROM -FRONT- STA. 28+28 TO 28+00 FT. ON PARCELS 28 AND 29.

8-565-2008 OF 11 SHEETS
 11/1/50
 W. J. HARRIS
 11/1/50



5/17/79

1606-000-020 800C-131-4

State of North Carolina
Department of Environment
and Natural Resources
Division of Water Quality



Michael F. Easley, Governor
William G. Ross, Jr., Secretary
Gregory J. Thorpe, Ph.D., Acting Director

April 10, 2002

Mr. William D. Gilmore, P.E., Manager
Planning and Environmental Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina, 27699-1548

Dear Mr. Gilmore:

Re: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act,
Proposed US 421-NC 87 Sanford Bypass from existing US 421 northwest of Sanford to existing NC
87 southeast of Sanford in Lee County (TIP R-2417).
WQC Project No. 001432

Attached hereto is a copy of Certification No. 3378 issued to The North Carolina Department of Transportation dated April 9, 2002. You have our approval, in accordance with the attached conditions and those listed below, to place fill material in 11.06 acres of jurisdictional wetlands, 23,640 linear feet of streams, and 6.32 acres of other surface waters (ponds). In addition, 0.1 acres of temporary impacts to jurisdictional wetlands at Section BB Site 2 are authorized. The project shall be constructed in accordance with your application dated June 11, 2001, and the subsequent addendums dated June 22, 2001, August 31, 2001, and September 28, 2001. Any proposed site plans submitted in the June 11, 2001 application that have a subsequent revised site plan submitted in the June 22, 2001, August 31, 2001, or September 28, 2001 addendums are not authorized by this certification. Instead, for all impacts where a proposed site design as provided in the original June 11, 2001 application was revised and submitted in the the June 22, 2001, August 31, 2001, or September 28, 2001 addendums, the drawings with the latest date of revision are authorized. The purpose of the authorized impacts is the construction of the US 421-NC 87 Sanford Bypass from existing US 421 northwest of Sanford to existing NC 87 southeast of Sanford in Lee County (TIP R-2417).

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Gregory J. Thorpe, Ph.D.
Acting Director

State of North Carolina
Department of Environment
and Natural Resources
Division of Water Quality

Michael F. Easley, Governor
William G. Ross, Jr., Secretary
Gregory J. Thorpe, Ph.D., Acting Director



Attachments

cc: Wilmington District Corps of Engineers
Corps of Engineers Raleigh Field Office
DWQ Raleigh Regional Office
Ron Ferrell, Wetlands Restoration Program
Central Files
File Copy

State of North Carolina
 Department of Environment
 and Natural Resources
 Division of Water Quality



Michael F. Easley, Governor
 William G. Ross, Jr., Secretary
 Gregory J. Thorpe, Ph.D., Acting Director

APPROVAL OF 401 Water Quality Certification

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15A NCAC 2H. Section .0500, and 15A NCAC 2B .0233. You have our approval, in accordance with the attached conditions and those listed below, to place fill material in 11.06 acres of jurisdictional wetlands, 23,640 linear feet of streams, and 6.32 acres of other surface waters (ponds). In addition, 0.1 acres of temporary impacts to jurisdictional wetlands at Section BB Site 2 are authorized. The project shall be constructed in accordance with your application dated June 11, 2001, and the subsequent addendums dated June 22, 2001, August 31, 2001, and September 28, 2001. Any proposed site plans submitted in the June 11, 2001 application that have a subsequent revised site plan submitted in the June 22, 2001, August 31, 2001, or September 28, 2001 addendums are not authorized by this certification. Instead, for all impacts where a proposed site design as provided in the original June 11, 2001 application was revised and submitted in the the June 22, 2001, August 31, 2001, or September 28, 2001 addendums, the drawings with the latest date of revision are authorized. The purpose of the authorized impacts is the construction of the US 421-NC 87 Sanford Bypass from existing US 421 northwest of Sanford to existing NC 87 southeast of Sanford in Lee County (TIP R-2417).

The application provides adequate assurance that the discharges of fill material into the waters of the Cape Fear River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application, as described in the Public Notice. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. Any additional impacts to wetlands, streams, or buffers, for this project (now or in the future) will require additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7), and 15A NCAC 2B .0233. For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire three years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding Corps of Engineers Permit, whichever is sooner.

Condition(s) of Certification:

1. Appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" or the "North Carolina Surface Mining Manual" whichever is more appropriate (available from the Division of Land Resources (DLR) in the DENR Regional or Central Offices) shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to ensure compliance with

State of North Carolina
 Department of Environment
 and Natural Resources
 Division of Water Quality



Michael F. Easley, Governor
 William G. Ross, Jr., Secretary
 Gregory J. Thorpe, Ph.D., Acting Director

the appropriate turbidity water quality standard (50 NTUs in all fresh water streams and rivers not designated as trout waters; 25 NTUs in all lakes and reservoirs, and all saltwater classes; and 10 NTUs in trout waters);

2. Sediment and erosion control measures shall not be placed in wetlands or waters to the maximum extent practicable. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored after the Division of Land Resources has released the project;
3. If an environmental document is required, this Certification is not valid until a FONSI or ROD is issued by the State Clearinghouse. All water quality-related conditions of the FONSI or ROD shall become conditions of this Certification;
4. Measures shall be taken to prevent live or fresh concrete from coming into contact with waters of the state until the concrete has hardened;
5. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit. Should waste or borrow sites be located in wetlands or stream, compensatory mitigation will be required since it is a direct impact from road construction activities.
6. All channel relocations will be constructed in a dry work area, and stabilized before stream flows are diverted. Channel relocations will be completed and stabilized prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Vegetation used for bank stabilization shall be limited to native woody species, and should include establishment of a 30 foot wide wooded and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical. A transitional phase incorporating coir fiber and seedling establishment is allowable. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested.
- *7. Compensatory mitigation for impacts to streams shall be done for 17,138 linear feet of stream impact (4545 linear feet in Hydrologic Unit 03030003 and 12,593 linear feet in Hydrologic Unit 03030004) at a replacement ratio of 1:1. Compensatory mitigation for impacts to jurisdictional streams shall be provided by onsite stream relocations of 144 linear feet of streams on site (in Hydrologic Unit 03030004) as described in the June 11, 2001 application for Sites 14 and 22 in segment BA. In addition, compensatory mitigation for impacts to jurisdictional streams shall be provided by onsite stream relocations of 1930 linear feet of streams on site (in Hydrologic Unit 03030004) as described in the September 28, 2001 addendum for Site 6 in segment BB. All stream relocations shall have 50-foot wooded buffers planted on both sides of the stream. As-Builts for the completed streams shall be submitted to the North Carolina Division of Water Quality 401 Wetlands Unit within 30 days of the completion of the construction of the relocations. If the parameters of this condition are not met, then the NCDOT shall supply additional stream mitigation for the 2074 linear feet of impacts. In addition to the 2,074 linear

State of North Carolina
 Department of Environment
 and Natural Resources
 Division of Water Quality



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 Gregory J. Thorpe, Ph.D., Acting Director

feet of on-site mitigation. compensatory mitigation for an additional 15,064 linear feet of streams is required as described below:

Mitigation Site	Linear Feet Debited from Site	Type of Mitigation	Replacement Ratio	Linear Feet of Mitigation Credited
Hydrologic Unit 03030003				
Deaton Mitigation Site	4,545	Restoration	1:1	4,545
Hydrologic Unit 03030004				
On-site	2,074	Restoration	1:1	2,074
WRP	10,519	Restoration	1:1	10,519
Total				17,138

We understand that you have chosen to perform compensatory mitigation for some of your impacts to streams through an in lieu payment to the North Carolina Wetland Restoration Program (NCWRP), and that the WRP has agreed to implement the mitigation for the project. Mitigation for unavoidable impacts to 10,519 linear feet of streams shall be provided through an in-lieu payment to the North Carolina Wetlands Restoration Program (NCWRP) at a rate of \$125 per linear foot. Therefore, a total payment of \$ 1,314,875 shall be submitted to the NCWRP to offset the impacts. No construction activities in jurisdictional streams shall begin until payment for stream mitigation is made and the Wetland Restoration Program receives and clears your check (made payable to DENR - Wetland Restoration Program). The payment to NCWRP shall be sent within two months of issuance of the 404 permit. If you have any questions concerning the Wetland Restoration Program please contact them at 919-733-5208.

- *8. Compensatory mitigation for impacts to wetlands shall be done for 11.06 acres of impacts (2.21 in Hydrologic Unit 03030003 and 8.85 in Hydrologic Unit 03030004). Applying a replacement ration of 2:1 total mitigation for 22.12 acres of riparian wetlands (4.42 in Hydrologic Unit 03030003 and 17.70 acres in Hydrologic Unit 03030004) shall be provided as described below.

State of North Carolina
Department of Environment
and Natural Resources
Division of Water Quality

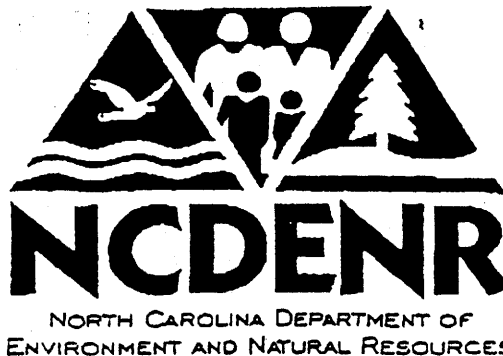


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William G. Ross, Jr., Secretary
Gregory J. Thorpe, Ph.D., Acting Director

Mitigation Site	Acres of WL Debited from Site	Type of Mitigation	Replacement Ratio	Acres of Mitigation Credited
Hydrologic Unit 03030003				
Sandy Creek Mitigation Site	2.21	Restoration	1:1	2.21
Blue Mitigation Site	11.04	Preservation	5:1	2.21
Hydrologic Unit 03030004				
WRP	17.70	Restoration	1:1	17.70
Total				22.12

- *9. Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the 401/Wetlands Unit of the Division of Water Quality upon completion of the project.
10. Placement of culverts and other structures in waters, streams, and wetlands must be placed below the elevation of the streambed to allow low flow passage of water and aquatic life unless it can be shown to DWQ that providing passage would be impractical. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or stream beds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium shall be maintained if requested in writing by DWQ.
11. When final design plans are completed for Sections R-2417 AA, and R-2417 C, a modification to the 401 Water Quality Certification shall be submitted with seven copies and fees to the NC Division of Water Quality. Final designs shall reflect all appropriate avoidance, minimization, and mitigation for impacts to wetlands, streams, and other surface waters. Construction activities that impact any wetlands, streams, and other surface waters located in Sections R-2417 AA or Sections R-2417 C shall begin only after NCDOT applies for and receives a modified 401 Water Quality Certification from the NC Division of Water Quality.
12. No construction activities are authorized in Section R-2417 AA or Section R-2417 AB until a final design is approved in writing by the NC Division of Water Quality 401 Wetlands Unit for the Deaton Mitigation Site.

State of North Carolina
 Department of Environment
 and Natural Resources
 Division of Water Quality



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 Gregory J. Thorpe, Ph.D., Acting Director

13. Given the multiple set of addendums to the original application, NCDOT shall provide to the NCDWQ a final of site drawings within 2 months of the date of issuance of the 401 Water Quality Certification that reflects the authorized impacts in this certification.

Violations of any condition herein set forth shall result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, P.O. Box 27447, Raleigh, N.C. 27611-7447. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 10th day of April 2002

DIVISION OF WATER QUALITY

Gregory J. Thorpe, Ph.D.
 Acting Director

WQC No. 3377

State of North Carolina
Department of Environment
and Natural Resources
Division of Water Quality



Michael F. Easley, Governor
William G. Ross, Jr., Secretary
Gregory J. Thorpe, Ph.D., Acting Director

DWQ Project No.: _____ County: _____
Applicant: _____
Project Name: _____
Date of Issuance of 401 Water Quality Certification: _____

***Certificate of Completion**

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401/Wetlands Unit, North Carolina Division of Water Quality, 1621 Mail Service Center, Raleigh, NC, 27699-1621. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Engineer's Certification

_____ Partial _____ Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date _____

State of North Carolina
 Department of Environment
 and Natural Resources
 Division of Water Quality



Michael F. Easley, Governor
 William G. Ross, Jr., Secretary
 Gregory J. Thorpe, Ph.D., Acting Director

NORTH CAROLINA - DIVISION OF WATER QUALITY
 401 WATER QUALITY CERTIFICATION
 SUMMARY OF PERMITTED IMPACTS AND MITIGATION REQUIREMENTS

In accordance with 15A NCAC 2H.0500, the North Carolina Department of Transportation is authorized to impact the waters of the State of North Carolina as indicated below for the purpose of constructing the Proposed US 421-NC 87 Sanford Bypass from existing US 421 northwest of Sanford to existing NC 87 southeast of Sanford in Lee County (TIP R-2417, WQC Project No. 001432). All activities associated with these authorized impacts must be conducted in accordance with the conditions listed in the attached certification transmittal letter. **THIS CERTIFICATION IS NOT VALID WITHOUT THE ATTACHMENTS.**

COMPENSATORY MITIGATION REQUIREMENTS FOR WETLAND RESTORATION:

LOCATION: US 421 Bypass of Sanford
 COUNTY: Lee
 BASIN/SUBBASIN: Cape Fear, Cataloging Unit 03030003 and 03030004
 DWQ No.: 001432

As required by 15A NCAC 2H.0506, and the conditions of this certification, you are required to compensate for the above impacts through the restoration, creation, enhancement or preservation of wetlands and surface waters as outlined below prior to conducting any activities that impact or degrade waters of the state. Note: Acreage requirements proposed to be mitigated through the Wetland Restoration Program must be rounded to one-quarter increments according to 15A 2R.0503(b).

17.70 acres of Class WL wetlands
 .17.70 acres of riparian wetlands

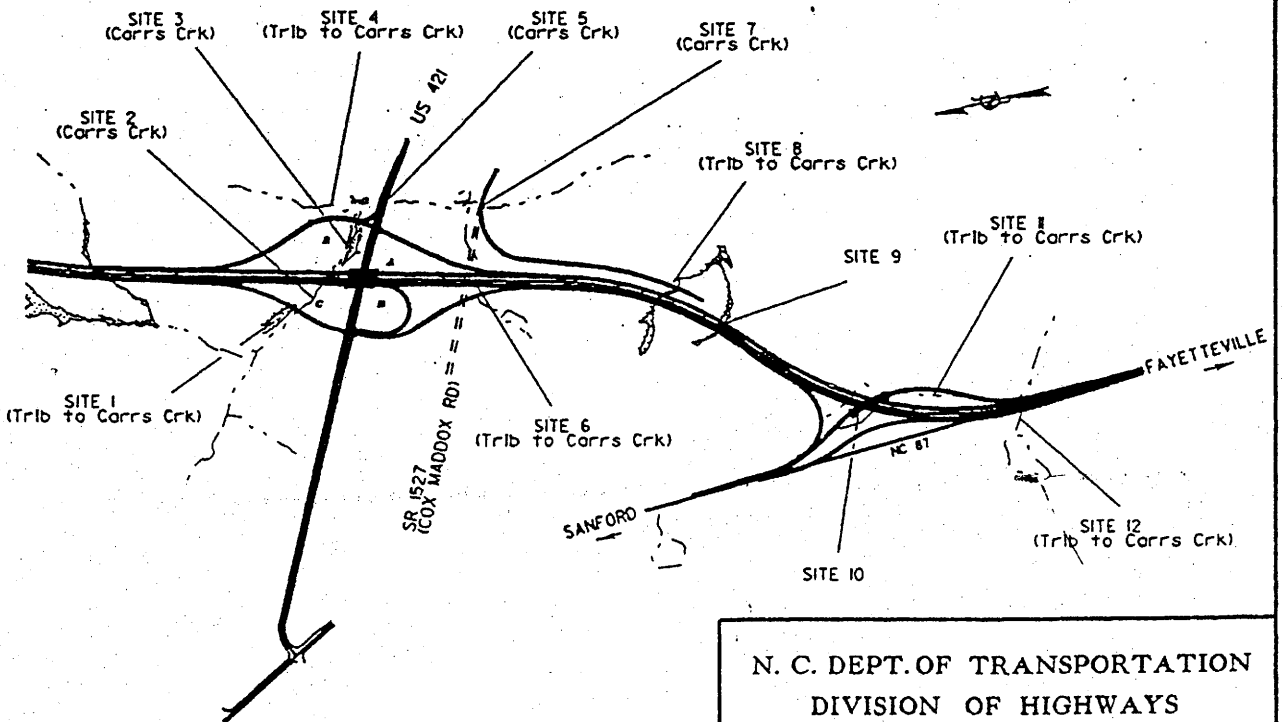
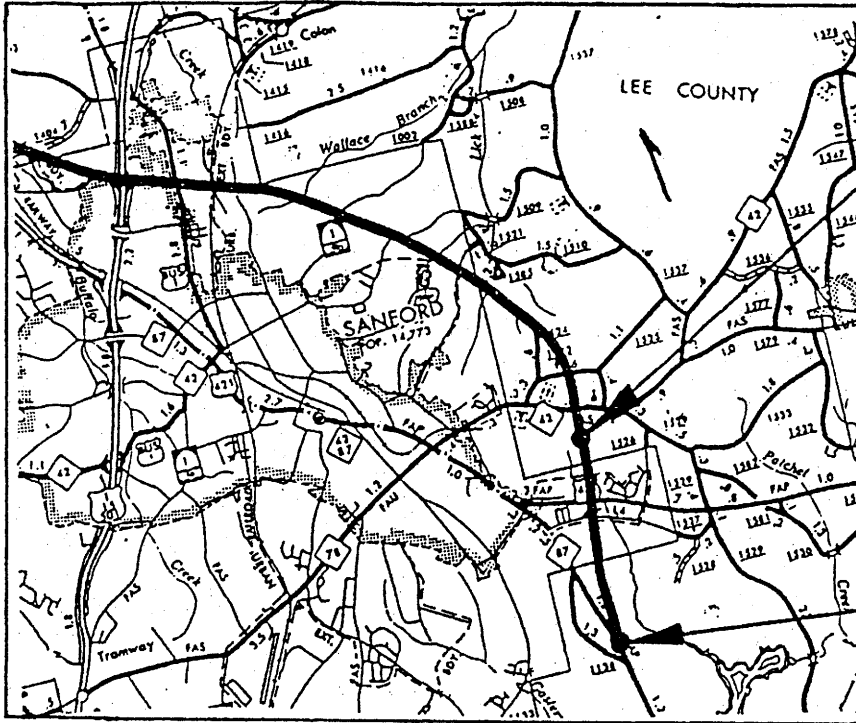
10,519 linear feet of stream channel

One of the options you have available to satisfy the compensatory mitigation requirements is through payment of a fee to the Wetland Restoration Fund per 15A NCAC 2R.0503. If you choose this option, please sign this form and mail it to the Wetlands Restoration Fund at the address listed below. An invoice for the appropriate amount of payment will be sent to you upon receipt of this form. **PLEASE NOTE, THE ABOVE IMPACTS ARE NOT AUTHORIZED UNTIL YOU RECEIVE NOTIFICATION THAT YOUR PAYMENT HAS BEEN PROCESSED BY THE WETLANDS RESTORATION PROGRAM.**

 Signature

 Date

WETLANDS RESTORATION PROGRAM
 DIVISION OF WATER QUALITY
 P.O. BOX 29535
 RALEIGH, NC, 27626-0535
 (919) 733-5208



VICINITY MAP

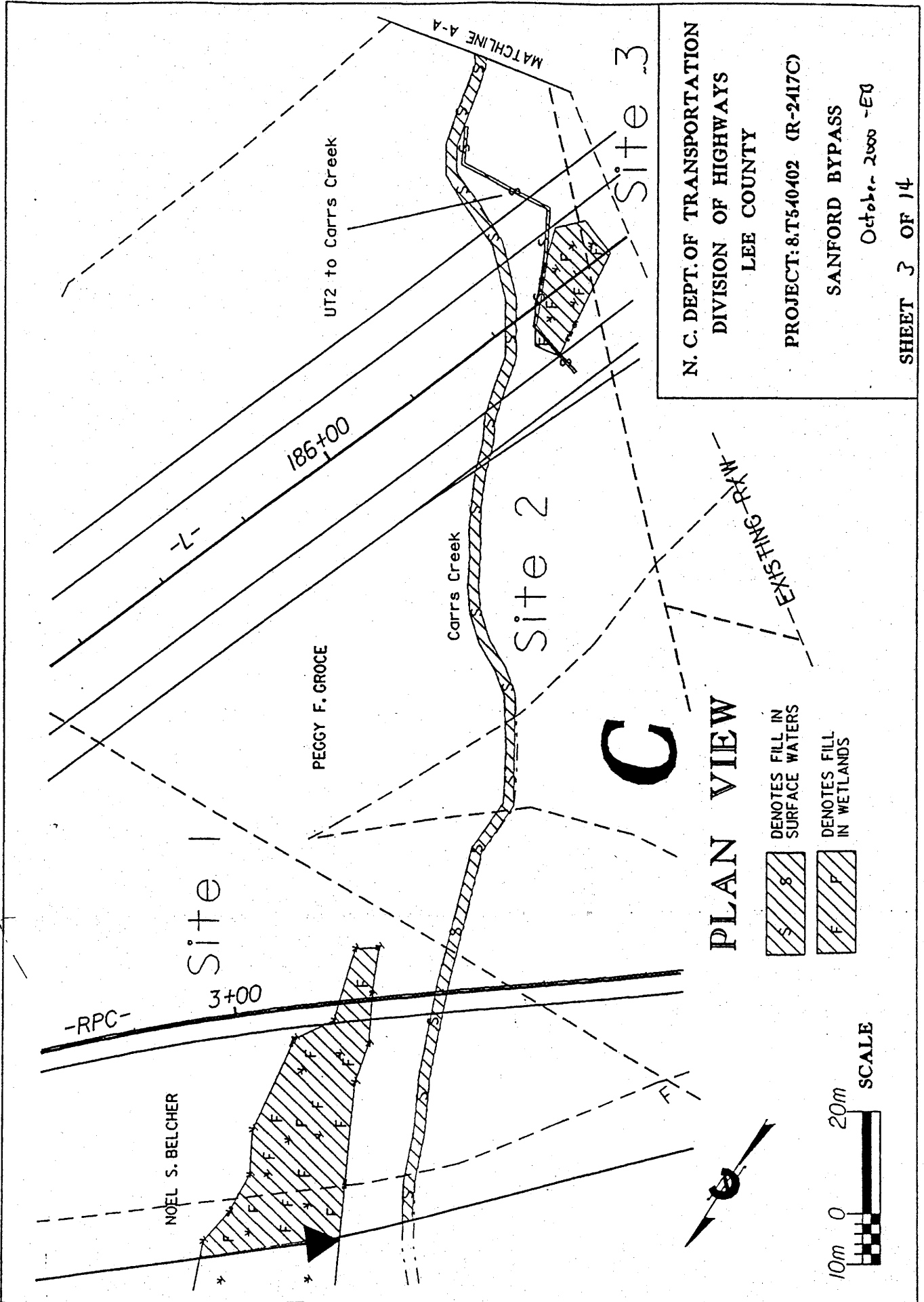
SANFORD BYPASS FROM SOUTH
OF NC 42 TO NC 87

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LEE COUNTY
 PROJECT: 8.T540402 (R-2417C)
 SANFORD BYPASS
 October 2000 - CB
 SHEET 1 OF 14

LEGEND

	LINE WT		LINE WT
WLB	4-6		6
WETLAND	4-6		6
DENOTES FILL IN WETLAND	2		15
DENOTES FILL IN SURFACE WATER	2	(DASHED LINES DENOTE EXISTING STRUCTURES)	6
DENOTES FILL IN SURFACE WATER (POND)	2	12'-48' PIPES	
DENOTES TEMPORARY FILL IN WETLAND	2	54" PIPES & ABOVE	
DENOTES EXCAVATION IN WETLAND	2		2
DENOTES TEMPORARY FILL IN SURFACE WATER	2	WOODS LINE	2
DENOTES MECHANIZED CLEARING	2		
FLOW DIRECTION	2	ROOTWAD	2
TOP OF BANK	2-4		2
EDGE OF WATER	2		2
PROP. LIMIT OF CUT	2	ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE	
PROP. LIMIT OF FILL	2	BZ 1	2
PROP. RIGHT OF WAY	2	BUFFER ZONE 1 BOUNDARY	
NATURAL GROUND	2	BZ 2	2
PROPERTY LINE	2	BUFFER ZONE 2 BOUNDARY	
TEMP. DRAINAGE EASEMENT	2		
PERMANENT DRAINAGE EASEMENT	2		
EXIST. ENDANGERED ANIMAL BOUNDARY	2		
EXIST. ENDANGERED PLANT BOUNDARY	2		
WATER SURFACE	2		
LIVE STAKES	2		
BOULDER	6		
CORE FIBER ROLLS			

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LEE COUNTY
 PROJECT: 8.T540402 (R-2417C)
 SANFORD BYPASS
 October 2000-EB
 SHEET 2 OF 14



N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LEE COUNTY

PROJECT: 8.T540402 (R-2417C)

SANFORD BYPASS

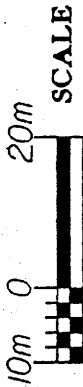
October 2000 - E0

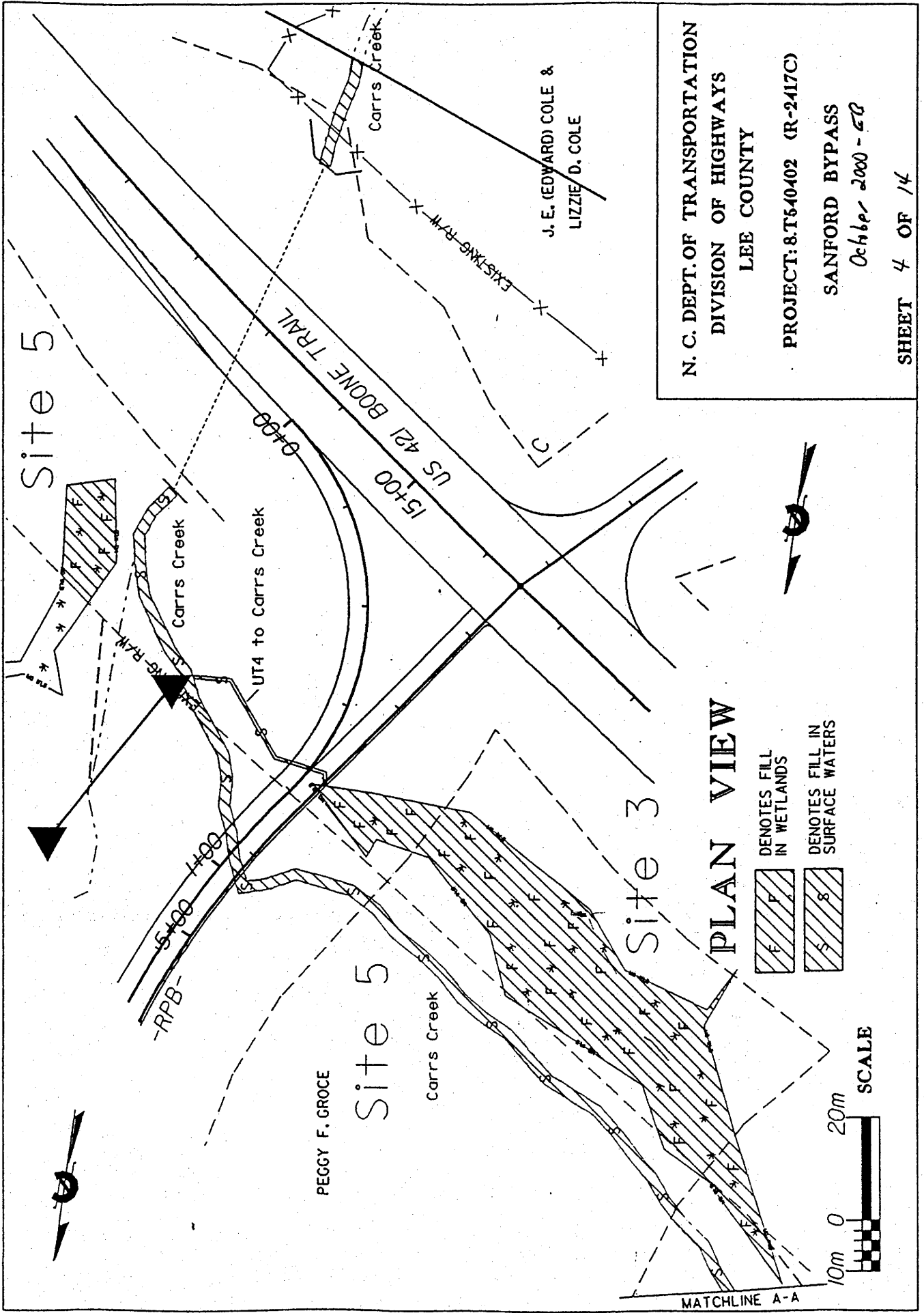
SHEET 3 OF 14

PLAN VIEW

DENOTES FILL IN SURFACE WATERS

DENOTES FILL IN WETLANDS



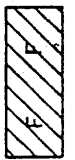
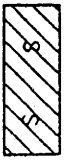


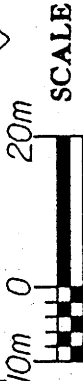
N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LEE COUNTY

PROJECT: 8.T540402 (R-2417C)
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 October 2000 - 50

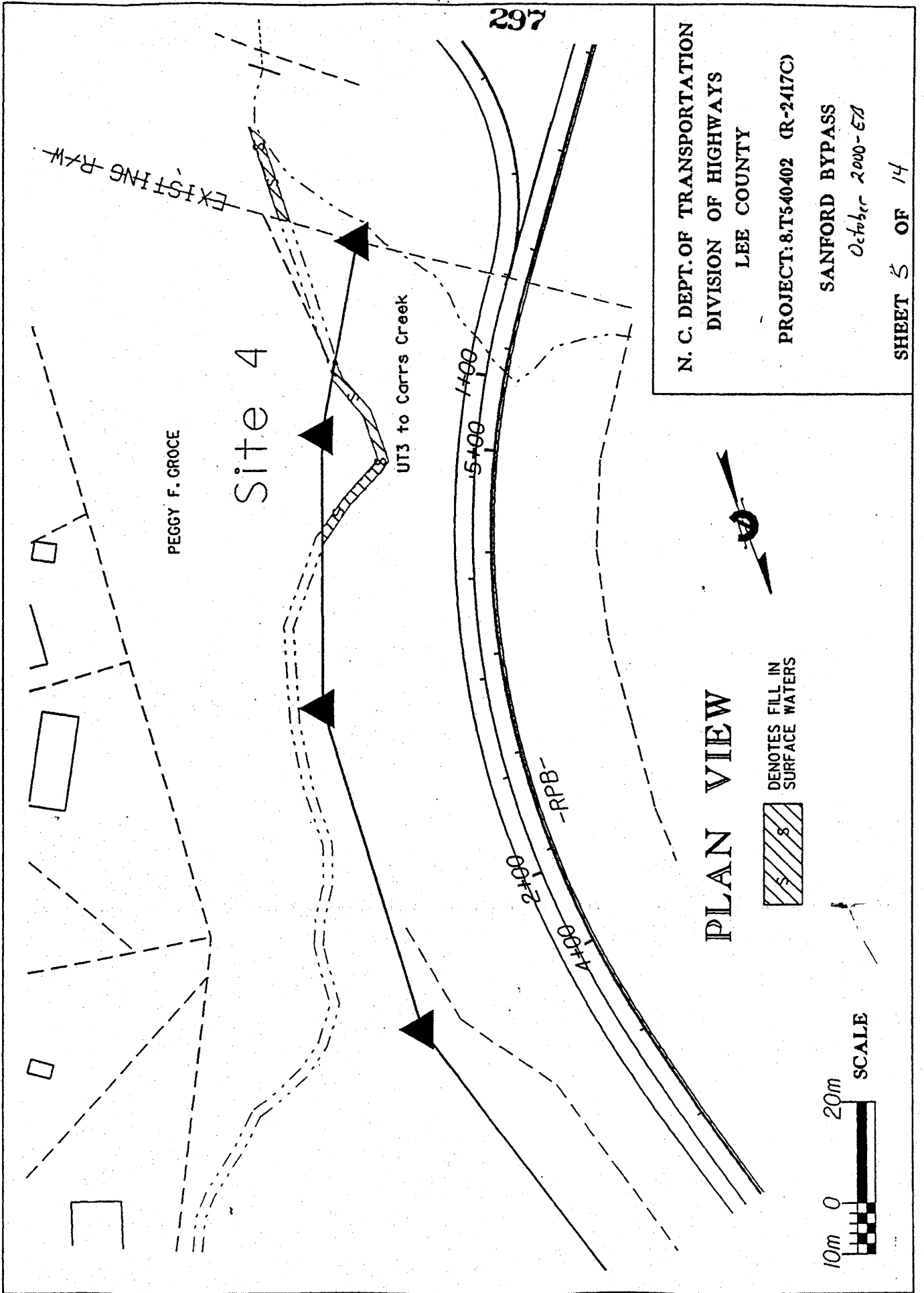
SHEET 4 OF 14

PLAN VIEW

 DENOTES FILL IN WETLANDS
 DENOTES FILL IN SURFACE WATERS



MATCHLINE A-A



N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LEE COUNTY

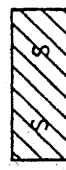
PROJECT: 8.T540402 (R-2417C)

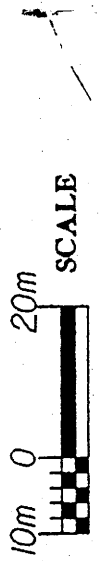
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October 2000-07

SHEET 5 OF 14

PLAN VIEW


 DENOTES FILL IN
 SURFACE WATERS



SCALE

297

Site 4

PEGGY F. GROCE

UT3 to Carrs Creek

EXISTING R/W

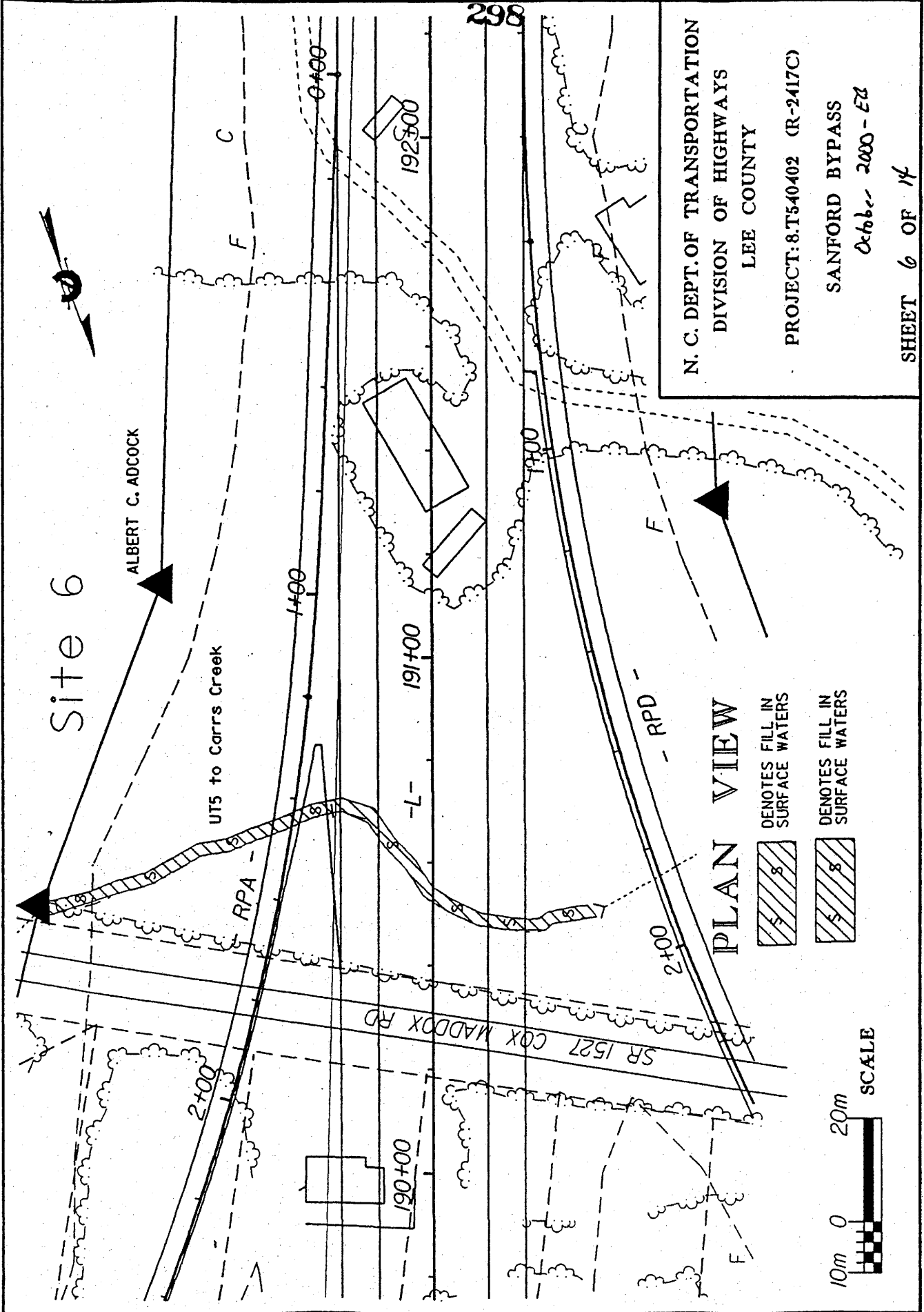
-RPB-

5+00

4+00

2+00

1+00



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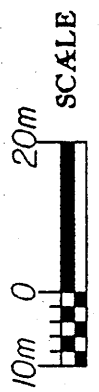
October 2000 - ET

SHEET 6 OF 14

PLAN VIEW

 DENOTES FILL IN SURFACE WATERS

 DENOTES FILL IN SURFACE WATERS



SCALE

299

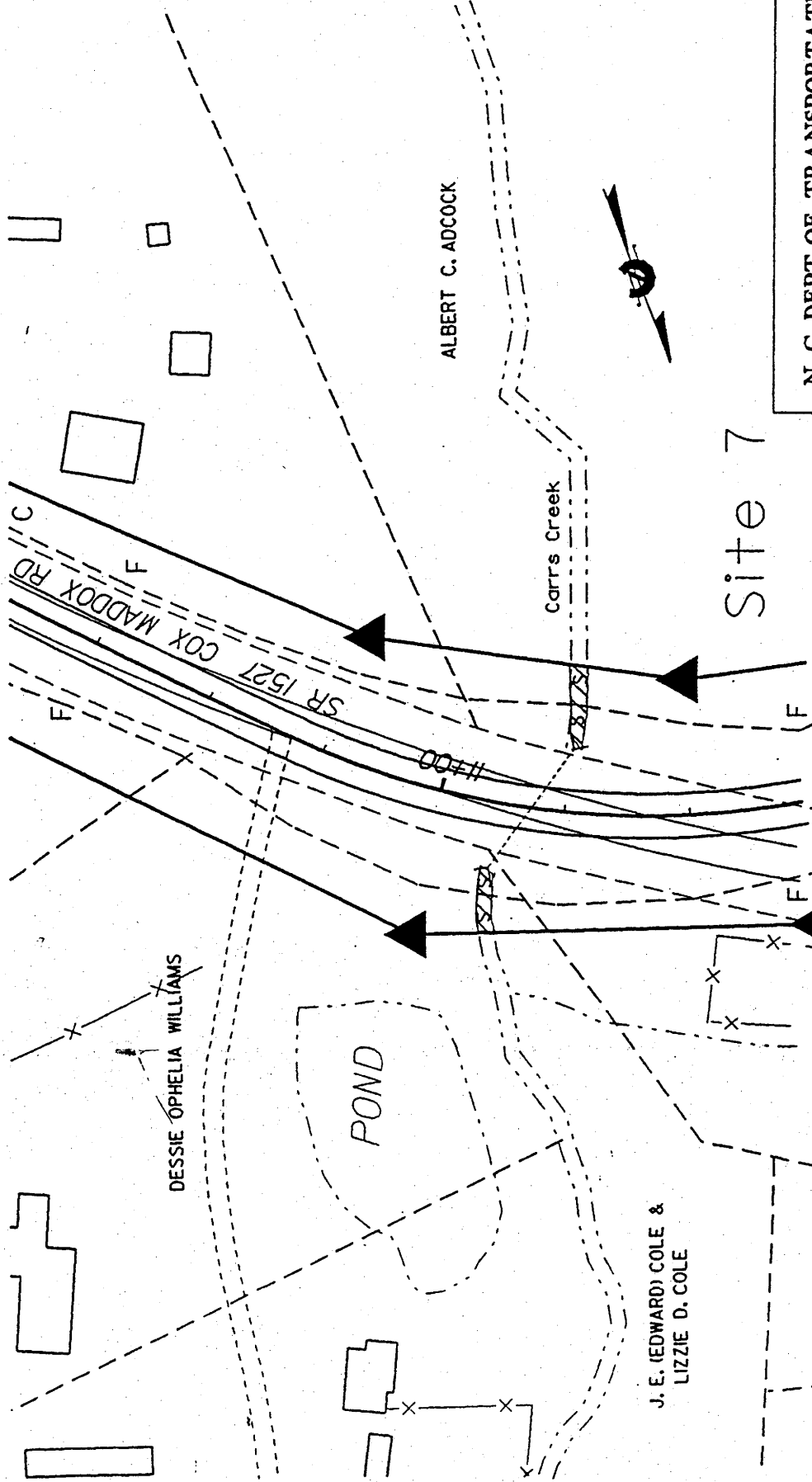
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
LEE COUNTY

PROJECT: 8.T540402 (R-2417C)

SANFORD BYPASS

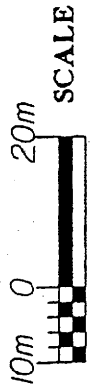
October 2000-073

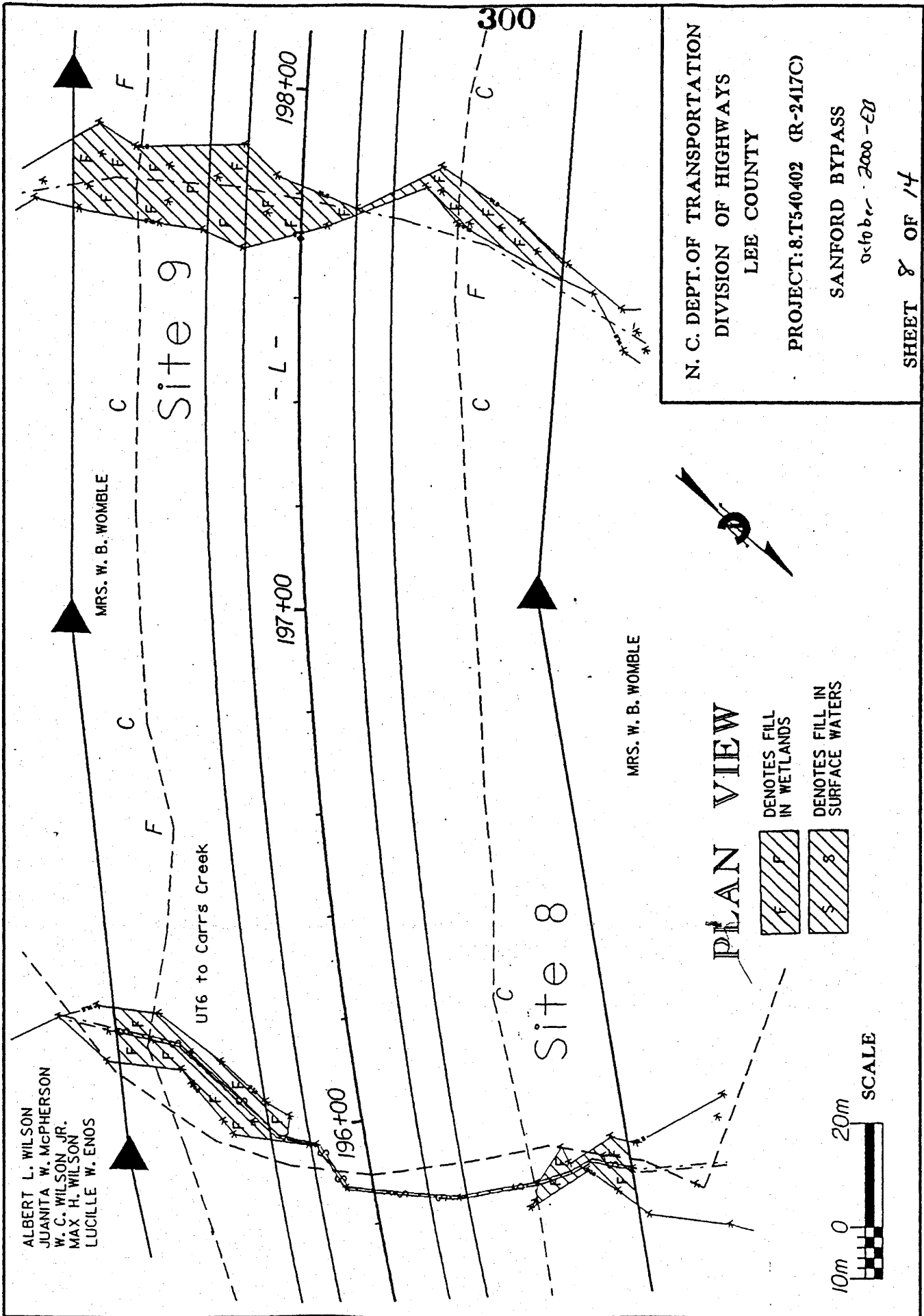
SHEET 7 OF 14



PLAN VIEW


 DENOTES FILL IN
SURFACE WATERS





ALBERT L. WILSON
 JUANITA W. McPHERSON
 W. C. WILSON JR.
 MAX H. WILSON
 LUCILLE W. ENOS

MRS. W. B. WOMBLE

Site 9

UT6 to Carrs Creek

197+00

198+00

- L -

196+00

Site 8

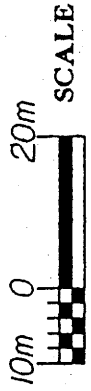
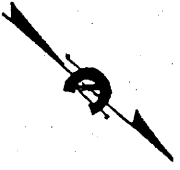
MRS. W. B. WOMBLE

300

PLAN VIEW

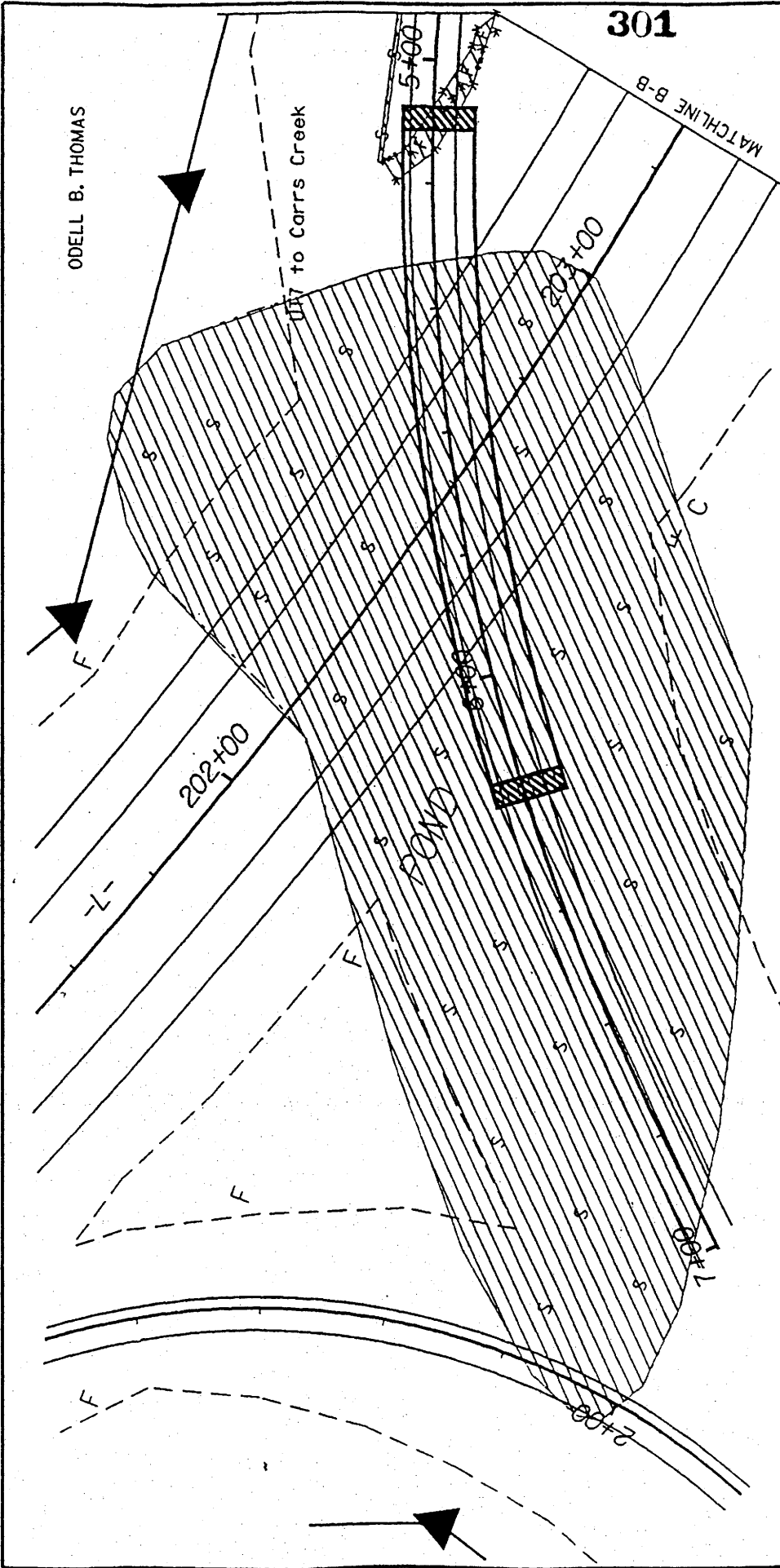
DENOTES FILL IN WETLANDS

DENOTES FILL IN SURFACE WATERS



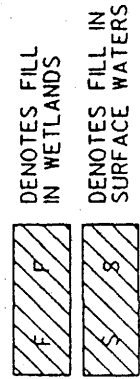
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 LEE COUNTY
 PROJECT: 8.T540402 (R-2417C)
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SHEET 8 OF 14

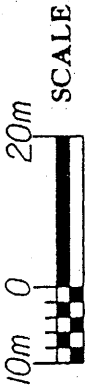


Site 10

ODELL B. THOMAS



PLAN VIEW



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301

MATCHLINE B-B

ODELL B. THOMAS

UP to Carrs Creek

202+00

203+00

POND

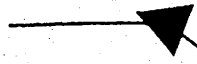
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F

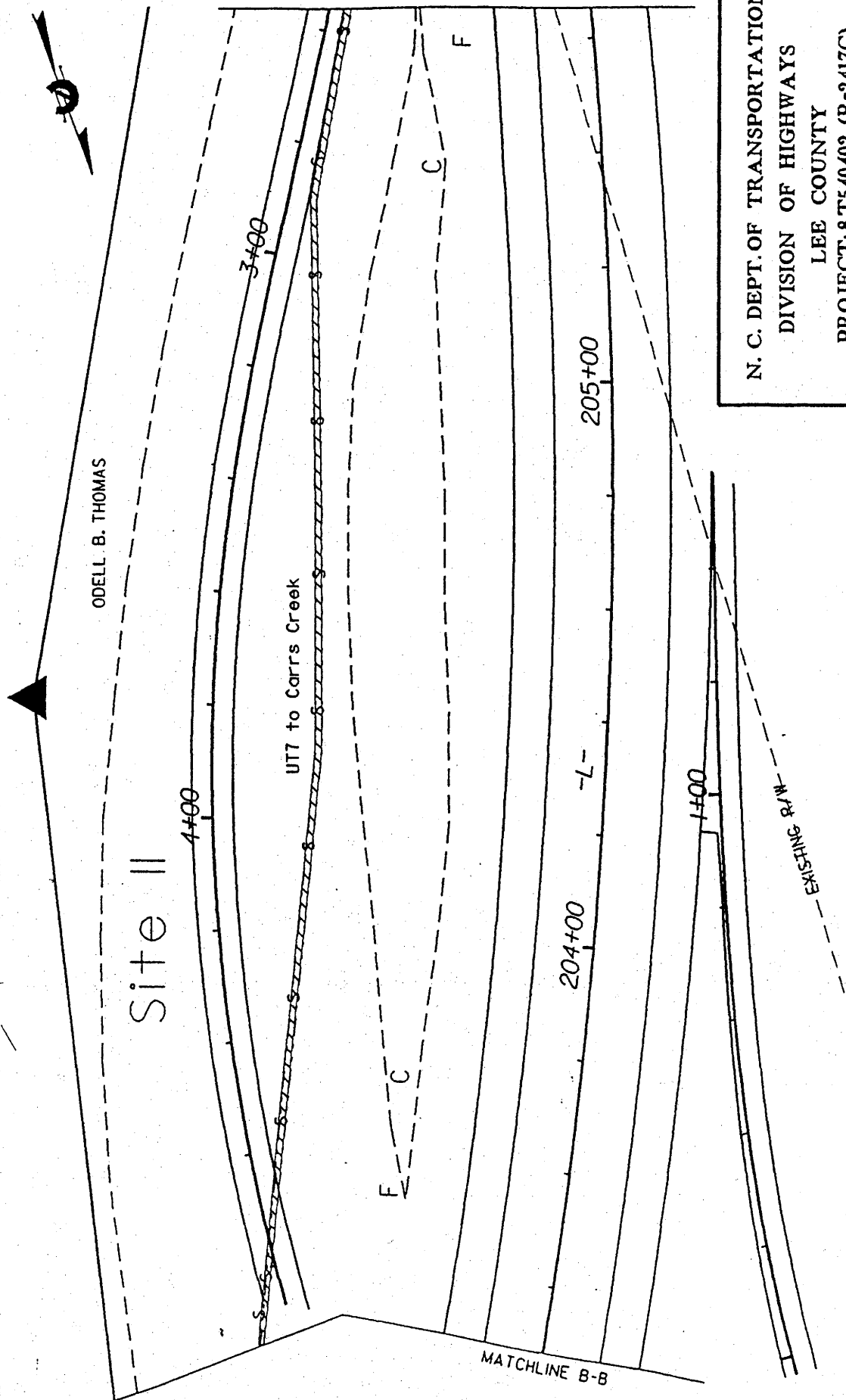
F

5+00

2+00



302 MATCHLINE C-C



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 DIVISION OF HIGHWAYS
 LEE COUNTY
 PROJECT: 8.T540402 (R-2417C)

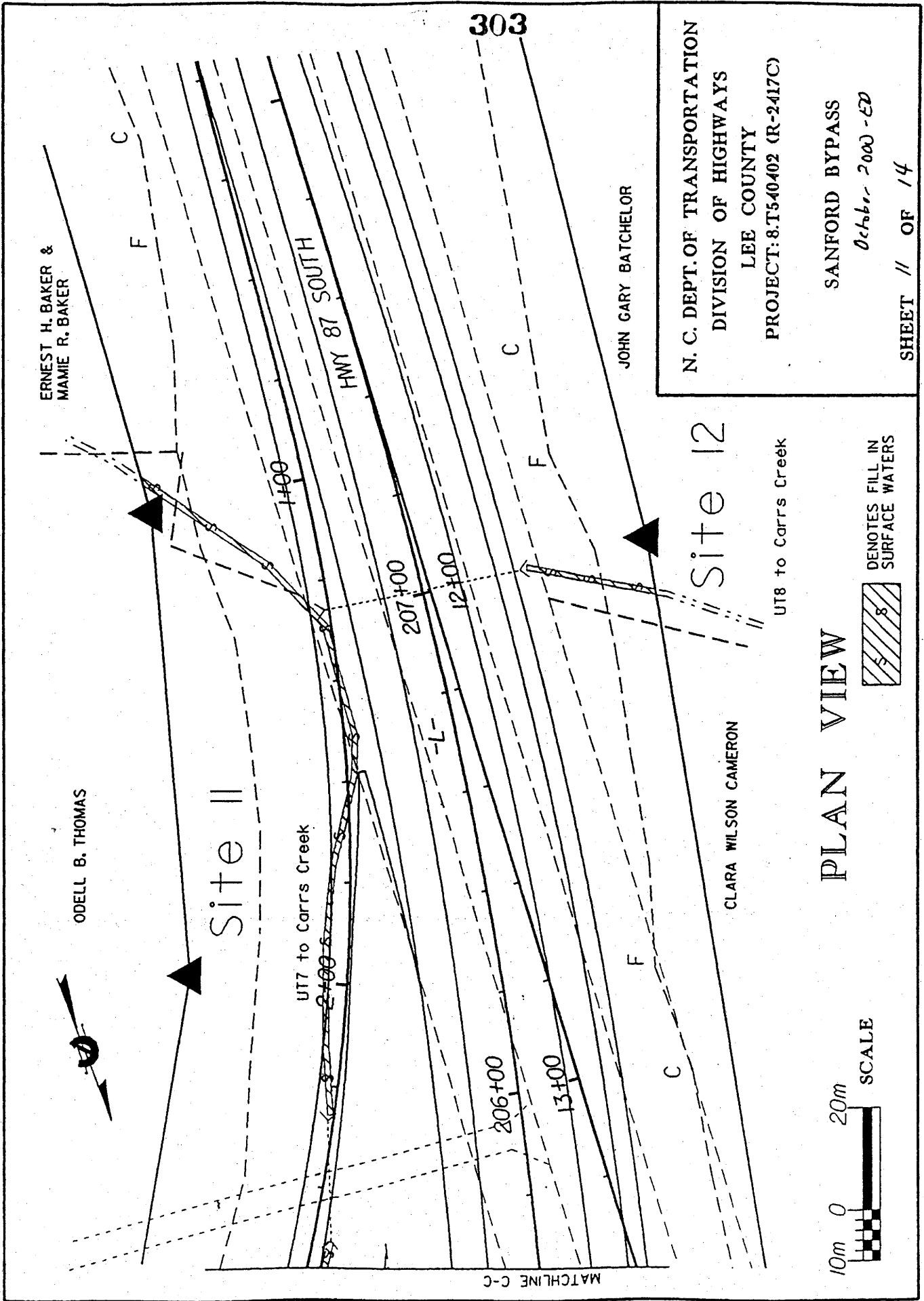
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SHEET 10 OF 14

PLAN VIEW


 DENOTES FILL IN SURFACE WATERS



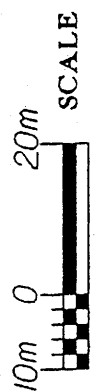


N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LEE COUNTY
 PROJECT: 8.T540402 (R-2417C)

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 October, 2000 - CD
 SHEET // OF 14

JOHN GARY BATCHELOR

PLAN VIEW



UT8 to Carrs Creek
 UT7 to Carrs Creek



IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS				SURFACE WATER IMPACTS					BUFFER IMPACTS					
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	Enclosed Channel (m)	Zone 1 (ha)	Zone 2 (ha)	Mech Clear (ha)		
1	185+20 -L- (RT)		0.088														
2	186+40 -L-						0.051				238						
2**	186+40 -L-						0.004				61						
3	186+60 -L- (LT)		0.196														
4	186+80 -L- (LT)						0.01						54				
5	13+40/15+40-Y- (LT)		0.021				0.046						236				
5**	14+60/15+00-Y- (LT)						0.002						35				
6	190+70 -L-						0.029						120				
7	11+00 -Y-						0.006						25				
8	195+95 -L-		0.049				0.007						113				
9	197+80 -L-		0.094														
TOTALS																	

** Intermittent

N.C. DEPT. OF TRANSPORTATION
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LEE COUNTY

PROJECT: 8.TS40402 (R-2417C)

0ch1.1-2000-27

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IMPACT SUMMARY

Site No	Station (From/To)	Structure Size	WETLAND IMPACTS				SURFACE WATER IMPACTS				BUFFER IMPACTS						
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	Enclosed Channel (m)	Zone 1 (ha)	Zone 2 (ha)	Mech Clear (ha)		
10	202+50 -L-		0.009				1.149										
11	203/207+00 -L- (LT)					0.042			405								
12	207+00 -L- (RT)					0.003			24								
TOTALS:			0.457				0.200	1.149	1311								

Perennial Total: 1215 m
Intermittent Total: 96 m

N.C. DEPT. OF TRANSPORTATION
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LEE COUNTY

PROJECT: 8-T540402 (R-2417C)
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PROPERTY OWNERS

NAMES AND ADDRESSES

SITE	NAMES	ADDRESSES
1	Noel S. Belcher	P.O. Box 1549 Angier, NC 27501
1, 2, 3, 4, 5	Peggy F. Groce	1300 Slatestone Ct Raleigh, NC 27615
5, 7	J. Edward & Lizzie D. Cole	3505 June Road Sanford, NC 27330
6, 7	Albert C. Adcock	P.O. Box 3367 Sanford, NC 27330
7	Dessie Ophella Williams	P.O. Box 2222 Sanford, NC 27330
8	Albert L. Wilson Juanita W. McPherson W.C. Wilson, Jr. Max H. Wilson Lucille W. Enos	721 Lankshire Road Winston-Salem, NC 27106
8, 9	Mrs. W.B. Womble	4135 Oakcrest Rd Sanford, NC 27330
10, 11, 12	Odell B. Thomas	3205 Kendale Drive Sanford, NC 27330
12	Clara Wilson Cameron	P.O. Box 2296 Sanford, NC 27330
12	John G. Batchelor	401 Shaddox Dr New Hill, NC 27562

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