



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

MAR 21 2011

DIVISION OF HIGHWAYS
DEA-OFFICE OF NATURAL ENVIRONMENT

March 16, 2011

Regulatory Division

Subject: Action ID No. 2008-02927, TIP No. U-2810, Camden Road Widening, Cumberland County, North Carolina.

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

Dear Dr. Thorpe:

I am responding to your requests dated September 10, 2010 and March 1, 2011 for modifications to the existing Department of the Army (DA) permit issued for the above referenced project on March 25, 2009

The referenced Section 404 permit authorizes impacts to 0.9 acres of jurisdictional wetlands and 273 linear feet of stream channel. The permit modification is proposed to include additional impacts that were not authorized by the March 25, 2009 Department of the Army permit. The project impacts proposed in the modification requests include an additional 0.2 acres of wetland impacts for the widening of Camden Road and 11 feet of stream impacts for bank stabilization.

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

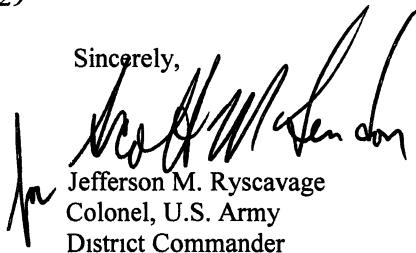
The permit modifications are as follows:

1. Compensatory mitigation for the loss of 0.20 acres of riparian, non-riverine wetlands associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated February 23, 2011 from William D. Gilmore, EEP Director. Pursuant to the EEP In-Lieu Fee Instrument, signed on July 28, 2010, the EEP will provide 0.40 acres of restoration equivalent riparian, non-riverine wetland mitigation, in the Upper Cape Fear River basin (Hydrologic Cataloging Unit 03030004) by one year of the date of this permit modification. A minimum of 1.1 (impact to mitigation) must be in the form of wetland restoration. The NCDOT shall, within 30 days of the issue date of this permit modification, certify that sufficient funds have been provided to EEP to complete the required mitigation, pursuant to Paragraph V of the MOA.

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

It is understood that all terms and conditions of the original permit remain applicable and that the expiration date is unchanged. Should you have any questions, please contact Mr. Ronnie Smith, Wilmington Field Office, Regulatory Division, at telephone (910) 251-4829

Sincerely,


Jefferson M. Ryscavage
Colonel, U.S. Army
District Commander

Copies Furnished w/ attachments:

Mr. Greg Burns, PE
Division Engineer, Division 6
North Carolina Department of Transportation
Post Office Box 1150
Fayetteville, North Carolina 28302

Mr. Jim Rerko
Division Environmental Officer, Division 6
North Carolina Department of Transportation
Post Office Box 1150
Fayetteville, North Carolina 28302

Mr. Tyler Stanton ✓
North Carolina Department of Transportation
Project Development and Environmental Analysis
1598 Mail Service Center
Raleigh, North Carolina 27699

Copies furnished w/out attachments:

Mr. Mason Herndon
NCDENR-DWQ
225 Green Street, Suite 214
Fayetteville, North Carolina 28301-5094

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

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

Mr. Chris Militcher
United States Environmental Protection Agency
c/o Federal Highway Administration
310 New Bern Avenue, Room 206
Raleigh, North Carolina 27601

Ms. Renee Gledhill-Early
North Carolina Department of Cultural Resources
4617 Mail Service Center
Raleigh, North Carolina 27699



North Carolina Department of Environment and Natural Resources

Division of Water Quality

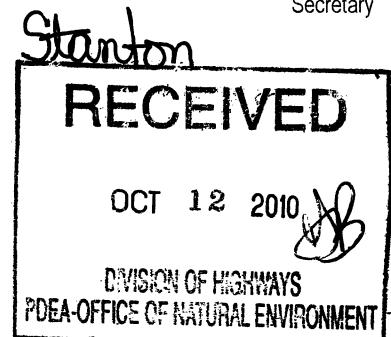
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

October 5, 2010

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



Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to SR 1300 (Camden Rd) in Cumberland County, Federal Aid Project No. STP-1003(22), State Project No. 82442601, TIP U-2810. NCDWQ Project No. 20081731 ver. 2

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 3775 issued to The North Carolina Department of Transportation (NCDOT) dated December 18, 2008.

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

Sincerely,

Belinda S. Henson
for Coleen H. Sullins
Director

Attachments

cc: Ronnie Smith, US Army Corps of Engineers, Wilmington Field Office
Greg Burns, PE, Division 6 Engineer
Jim Rerko, Division 6 Environmental Officer
Chris Militscher, Environmental Protection Agency (electronic copy only)
Travis Wilson, NC Wildlife Resources Commission
Beth Harmon, Ecosystem Enhancement Program
Sonia Carillo, NCDWQ Central Office
File Copy

**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 (NCDWQ) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact 1.19 acres of jurisdictional wetlands and 333 linear feet of jurisdictional streams in Cumberland County. The project shall be constructed pursuant to the modification dated received September 17, 2010. The authorized impacts are as described below:

Stream Impacts in the Cape Fear River Basin

Site	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 ft)	Stream Impacts Requiring Mitigation (linear ft)
1	0	0	96	20	116	0
4	0	0	98	20	118	98
5	0	0	79	20	99	79
Total	0	0	273	60	333	177

Total Stream Impact for Project: 333 linear feet (No new stream impacts are authorized by this modification)

Wetland Impacts in the Cape River Basin (Riverine wetlands)

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Area under Bridge (ac)	Total Wetland Impact (ac)
2	0.62	0	0	0.26	0.08	0	0.96
4	0.01	0.01	0	0.01	0	0	0.03
New impacts with this approval at Site 6	0.15	0	0	0.05	0	0	0.20
Total	0.78	0.01	0	0.32	0.08	0	1.19

Total Wetland Impact for Project: 1.19 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 modified application dated received September 17, 2010. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated December 18, 2008 still apply except where superceded by this certification. Should your project change, you are required to notify NCDWQ 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 impacts, 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 Stormwater, 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.

Condition(s) of Certification:

1. This modification is applicable only to the additional proposed activities. All of the authorized activities and conditions of certification associated with the original Water Quality Certification dated December 18, 2008 still apply except where superceded by this certification.
2. Compensatory mitigation for 1.1 acre of permanent wetland impacts associated with this project is now required. We understand that you have chosen to perform compensatory mitigation for this impact of wetlands through the North Carolina Ecosystem Enhancement Program (EEP), and that EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated, June 16, 2010 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above referenced modification, in accordance with the Tri-Party MOA signed on July 22, 2003 and Dual Party MOA signed on April 12, 2004.

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 you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission.

The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919)-733-2698, Facsimile: (919)-733-3478

A copy of the petition must also be served on DENR as follows:

Ms. Mary Penny Thompson, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601

This the 5th day of October 2010

DIVISION OF WATER QUALITY

Coleen H. Sullins
Director

NCDWQ 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 Transportation Permitting Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to NCDWQ 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 _____



North Carolina Department of Environment and Natural Resources

Division of Water Quality

Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

April 5, 2011

RECEIVED

APR 12 2011

Dee Freeman

DIVISION OF SECRETARY

DEPARTMENT OF NATURAL RESOURCES

June 2012

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

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to SR 1003 in Cumberland County, Federal Aid Project No. STP-1003(22), State Project No. 82442601, TIP U-2810.
NCDWQ Project No. 08-1731 v 4

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 3775 issued to The North Carolina Department of Transportation (NCDOT) dated December 18, 2008 and subsequent modifications dated October 5, 2010 and January 26, 2011.

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

Sincerely,

for
Coleen H. Sullins
Director

Attachments

cc: Ronnie Smith, US Army Corps of Engineers, Wilmington Field Office
Greg Burns, PE, Division 6 Engineer
Jim Rerko, Division 6 Environmental Officer
Chris Militscher, Environmental Protection Agency (electronic copy only)
Travis Wilson, NC Wildlife Resources Commission (electronic copy only)
William D. Gilmore, PE, Ecosystem Enhancement Program
Sonia Carrillo, NCDWQ Central Regional Office
File Copy

Transportation Permitting Unit
1650 Mail Service Center, Raleigh, North Carolina 27699-1650
Location: 512 N. Salisbury St., Raleigh, North Carolina 27604
Phone: 919-807-6300 | FAX: 919-807-6492
Internet: <http://h2o.enr.state.nc.us/ncwetlands/>

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**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 (NCDWQ) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact 1.19 acres of jurisdictional wetlands and 344 linear feet of jurisdictional streams in Cumberland County. The project shall be constructed pursuant to the modification dated received March 1, 2011. The authorized impacts are as described below:

Stream Impacts in the Cape Fear River Basin

Site	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 ft)	Stream Impacts Requiring Mitigation (linear ft)
1	0	0	96	20	116	0
4	0	0	98	20	118	98
5	0	0	79	20	99	79
New impacts with this approval at Site 7 for bank stabilization	0	0	11	0	11	0
Total	0	0	284	60	344	177

Total Stream Impact for Project: 344 linear feet

Wetland Impacts in the Cape Fear River Basin (riparian wetlands)

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Area under Bridge (ac)	Total Wetland Impact (ac)
2	0.62	< 0.01*	0	0.26	0.08	0	0.96
4	0.01	0.01	0	0.01	0	0	0.03
6	0.15	0	0	0.05	0	0	0.20
Total	0.78	0.01	0	0.32	0.08	0	1.19

Total Wetland Impact for Project: 1.19 acres. (No new wetland impacts are authorized by this modification)

*The temporary impacts at Site 2 of < 0.01 ac (300 sq. ft.) were authorized with an in-field modification issued on January 26, 2011, at the request of the Division 6 Environmental Officer.

The application provides adequate assurance that the discharge of fill material into the waters of the **Cape 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 modified application dated received March 1, 2011. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated December 18, 2008 and prior modifications dated October 5, 2010 and January 26, 2011 still apply except where superceded by this certification. Should your project change, you are required to notify NCDWQ 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 impacts, 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 Stormwater, 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.



North Carolina Department of Environment and Natural Resources

Division of Water Quality

Coleen H. Sullins
Director

April 5, 2011

RECEIVED

APR 12 2011

Dee Freeman
Division of Water Quality
Secretary

SEA OFFICE OF NATURAL RESOURCES

June 2012

Beverly Eaves Perdue
Governor

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

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to SR 1003 in Cumberland County, Federal Aid Project No. STP-1003(22), State Project No. 82442601, TIP U-2810.
NCDWQ Project No. 08-1731 v 4

Dear Dr. Thorpe:

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

Sincerely,

Coleen H. Sullins
for
Director

Attachments

cc: Ronnie Smith, US Army Corps of Engineers, Wilmington Field Office
Greg Burns, PE, Division 6 Engineer
Jim Rerko, Division 6 Environmental Officer
Chris Militscher, Environmental Protection Agency (electronic copy only)
Travis Wilson, NC Wildlife Resources Commission (electronic copy only)
William D. Gilmore, PE, Ecosystem Enhancement Program
Sonia Carrillo, NCDWQ Central Regional Office
File Copy

Transportation Permitting Unit
1650 Mail Service Center, Raleigh, North Carolina 27699-1650
Location: 512 N. Salisbury St., Raleigh, North Carolina 27604
Phone: 919-807-6300 | FAX: 919-807-6492
Internet: <http://h2o.enr.state.nc.us/ncwetlands/>

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Condition(s) of Certification:

1. All other conditions written into previous Water Quality Certifications dated December 18, 2008, October 5, 2010 and January 26, 2011 for this project still apply
2. 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.

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 you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

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The mailing address for the Office of Administrative Hearings is:

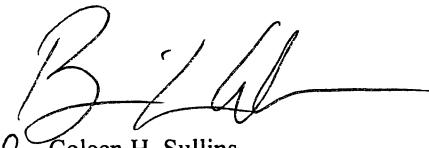
Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919)-733-2698, Facsimile: (919)-733-3478

A copy of the petition must also be served on DENR as follows:

Ms. Mary Penny Thompson, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601

This the 5th day of April 5, 2011

DIVISION OF WATER QUALITY



for Coleen H. Sullins
Director

WQC No. 3775

NCDWQ 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 Transportation Permitting Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to NCDWQ 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 _____

Condition(s) of Certification:

1. All other conditions written into previous Water Quality Certifications dated December 18, 2008, October 5, 2010 and January 26, 2011 for this project still apply
2. 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.

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.

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Raleigh, NC 27699-6714
Telephone: (919)-733-2698, Facsimile: (919)-733-3478

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Ms. Mary Penny Thompson, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601

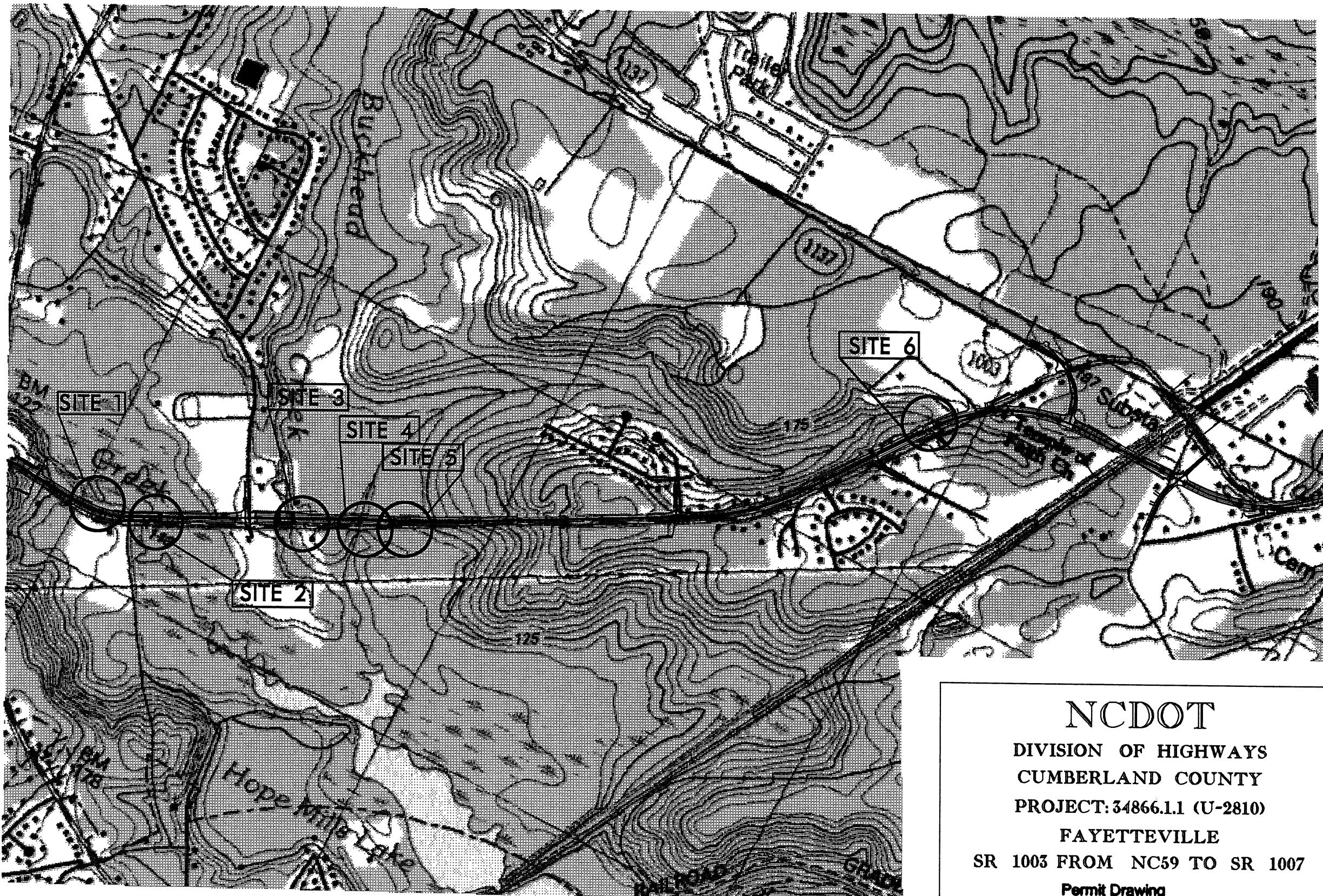
This the 5th day of April 5, 2011

DIVISION OF WATER QUALITY



for Coleen H. Sullins
Director

WQC No. 3775



NOT TO SCALE

PLAN VIEW

NCDOT
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY
PROJECT: 34866.1.1 (U-2810)
FAYETTEVILLE
SR 1003 FROM NC59 TO SR 1007

Permit Drawing
Sheet 2 of 24

SHEET 2 OF 24 Rev'd
6/2/10

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
4	NEIL SMITH	5301 CAMDEN ROAD, FAYETTEVILLE, NC 28306
5	NEIL SMITH	5301 CAMDEN ROAD, FAYETTEVILLE, NC 28306
6	NEIL SMITH	5301 CAMDEN ROAD, FAYETTEVILLE, NC 28306
7	BEVERLY MATTHEWS	PO BOX 39, HOPE MILLS, NC 28348
11	KATHERINE WARD	PO BOX 747, FAYETTEVILLE, NC 28302
12	MARY ALMA GILLIS	8621 CALATIA CHURCH RD FAYETTEVILLE, NC 28306
37	HENRY R. FAIRFAX	RR20, BOX 876 FAYETTEVILLE, NC 28306
40	PETER R. EVANS JR.	562 ALLEGHANY RD. FAYETTEVILLE, NC 28304-3220

NCDOT
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY
PROJECT: 34866.1.1 (U-2810)
FAYETTEVILLE
SR 1003 FROM
NC 59 TO NORTH OF SR 1007
Permit Drawing
Sheet 3 of 24 Rev'd
SHEET OF **6/2/11**

WETLAND PERMIT IMPACT SUMMARY

WETLANDS AND IMPACTS

SITE 2 PERMANENT IMPACT AREA DUE TO BENT LOCATIONS IS 70 SF

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY

WBS - 34866.1.1. (U-2810)
Permit Drawing

Sheet 4 of 24 ^{Revised} _{6/12/2010}

ATN Revised 3/31/05

SITE 6

-L-
 PI Sta 104+87.82
 Δ = 53° 3' 01" (RT)
 D = 3' 58" 04.3"
 L = 1,348.76'
 T = 728.10'
 R = 1,444.00'
 SE = 0.04
 RO = SEE PI

-Y5A-

PI Sta 10+86.99
 Δ = 15° 50' 57.4" (RT)
 D = 22' 55" 05.9"
 L = 69.16'
 T = 34.80'
 R = 250.00'
 SE = SEE PLANS

MATCH LINE 89+00 -L- SEE SHEET 5

100

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

5000

5100

5200

5300

5400

5500

5600

5700

5800

5900

6000

6100

6200

6300

6400

6500

6600

6700

6800

6900

7000

7100

7200

7300

7400

7500

7600

7700

7800

7900

8000

8100

8200

8300

8400

8500

8600

8700

8800

8900

9000

9100

9200

9300

9400

9500

9600

9700

9800

9900

10000

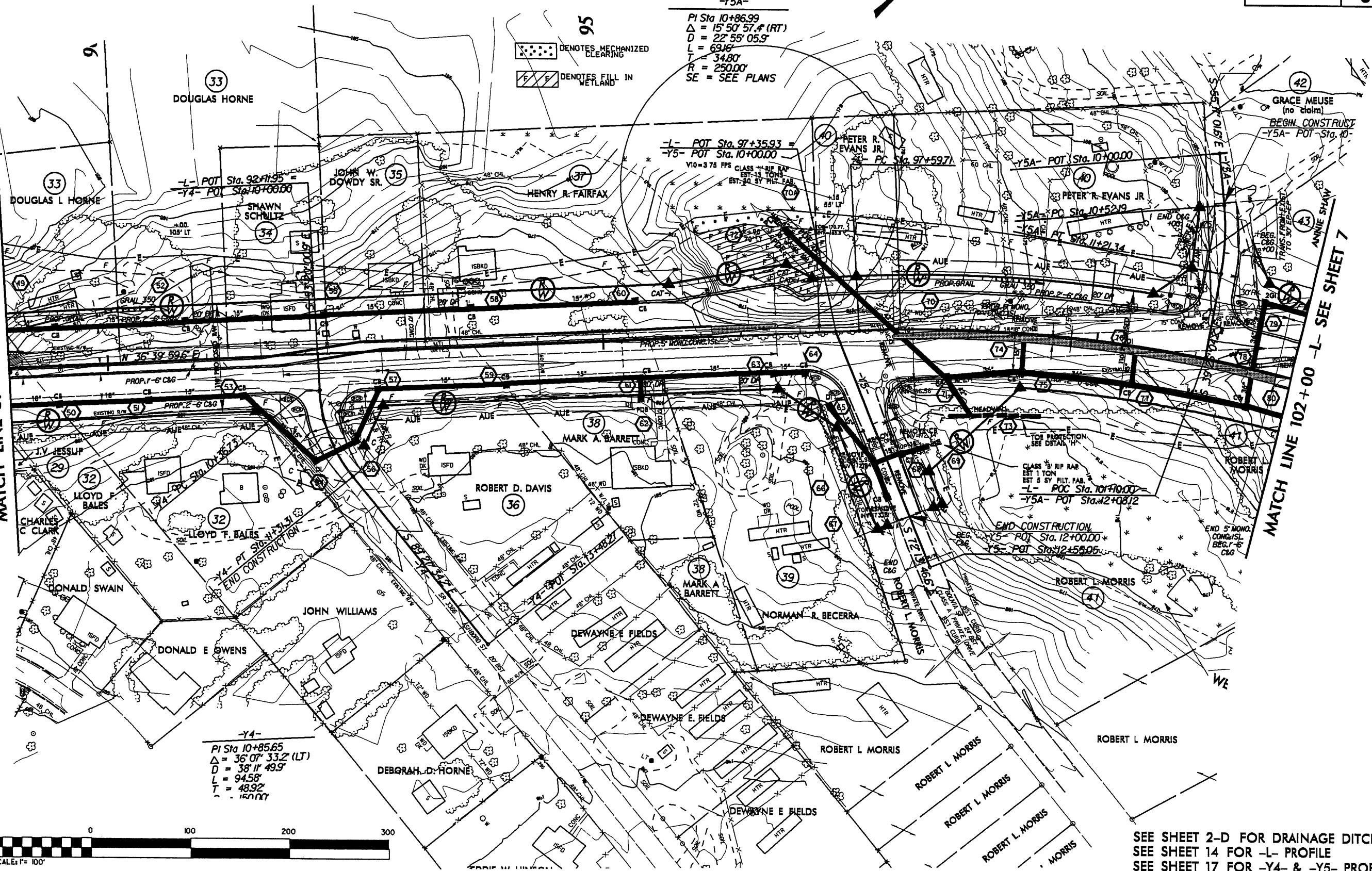
PROJECT REFERENCE NO.	SHEET NO.
U-2810B	6
RW SHEET NO.	10 (U-2810)
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing Sheet 24 of 24	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	Added 6-2-10

SITE 6

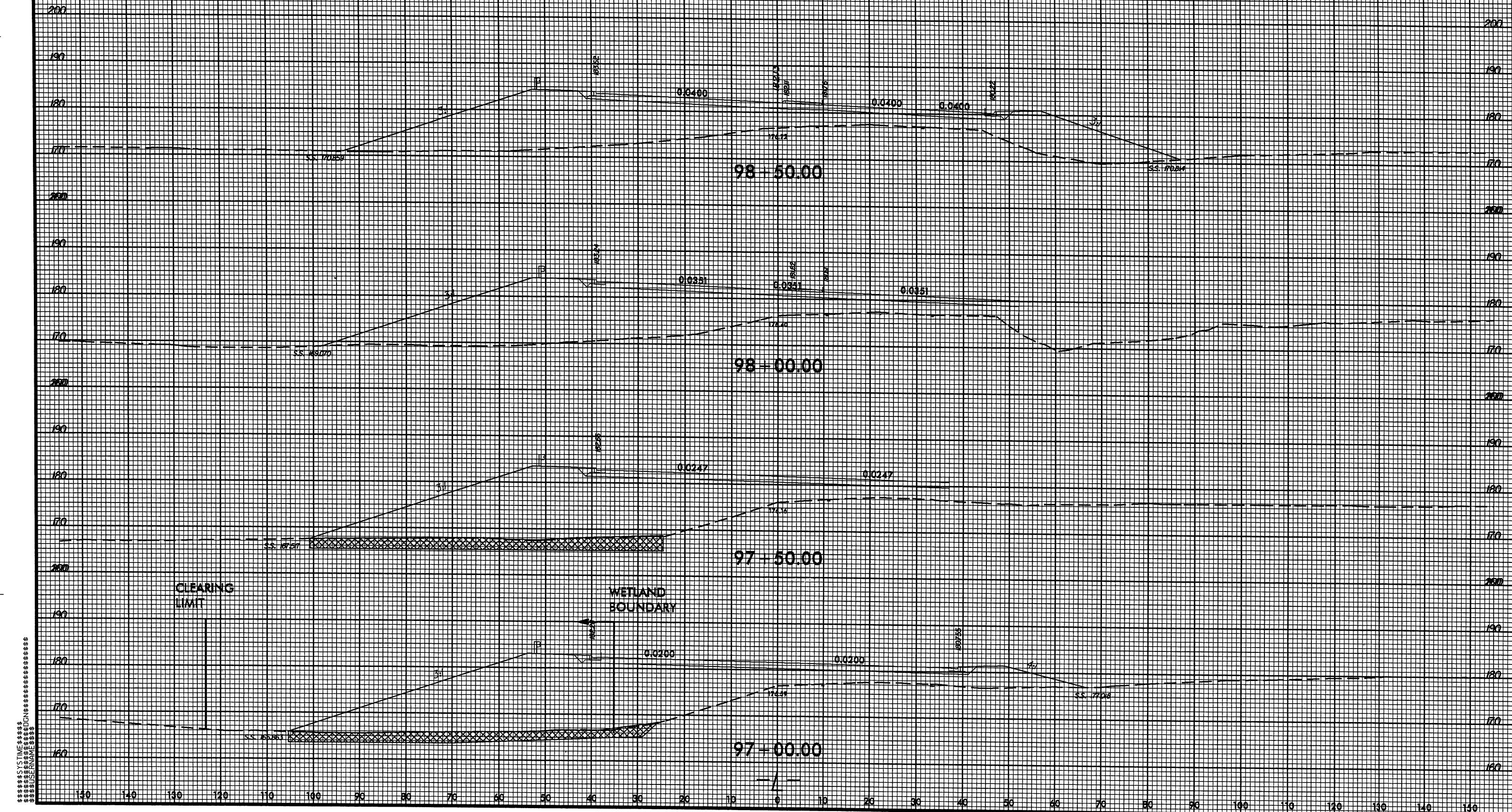
PI Sta 104+87.82
 $\Delta = 53^{\circ} 31' 01.5''$ (RT)
 D = $3^{\circ} 58' 04.3''$
 L = 1,34876'
 T = 7,2810'
 R = 1,44400'
 SE = 0,04
 RO = SEE PI

PI Sta 10+86.99
 $\Delta = 15^{\circ} 50' 57.4''$ (R)
 $D = 22^{\circ} 55' 05.9''$
 $L = 6946$
 $T = 34.80'$
 $R = 250.00'$
 SE = SEE PLANS

WATCH 1|INF 89+00 -L- SEE SHEET 5

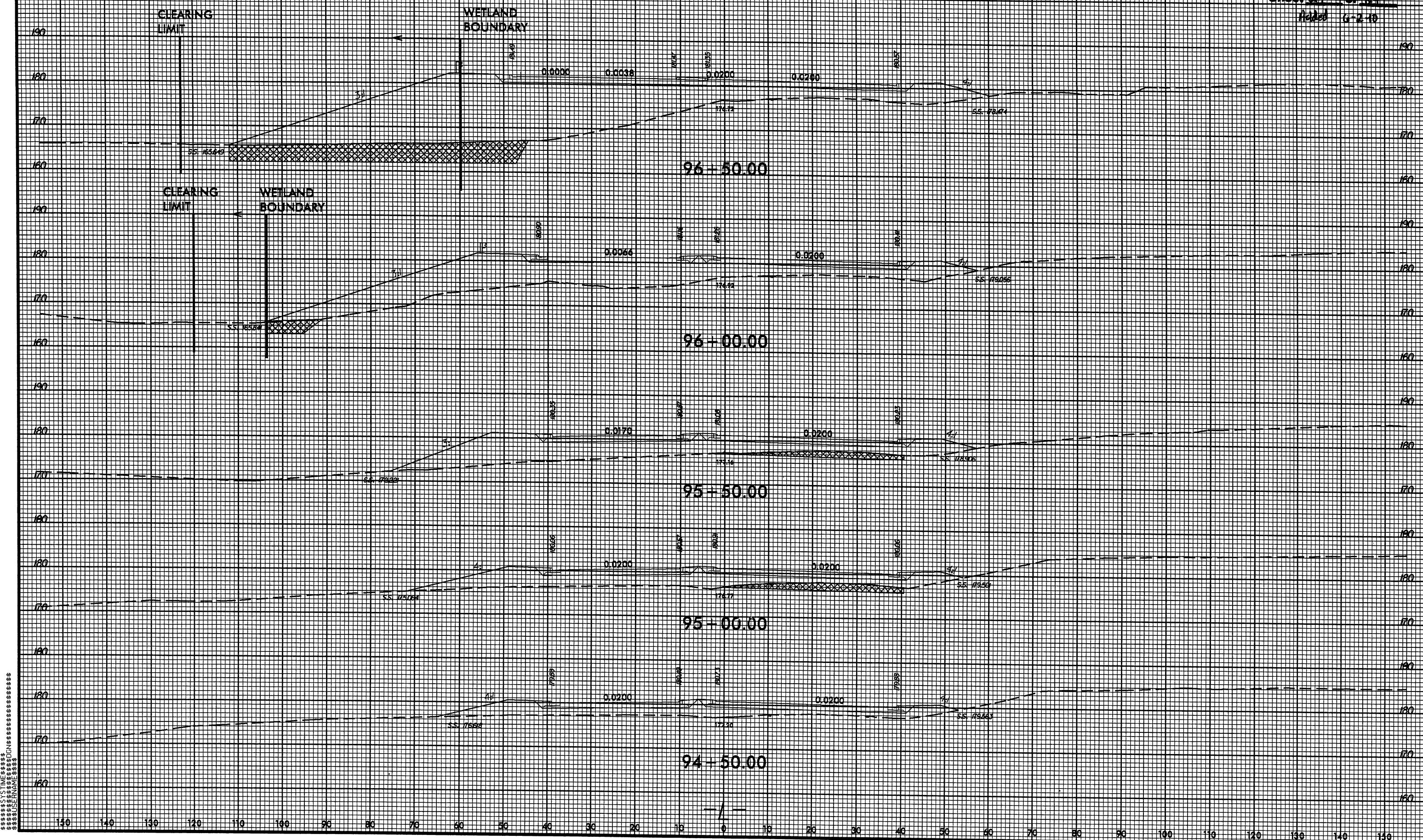


Permit Drawing
Sheet 23 of 24
Revised 6-2-00

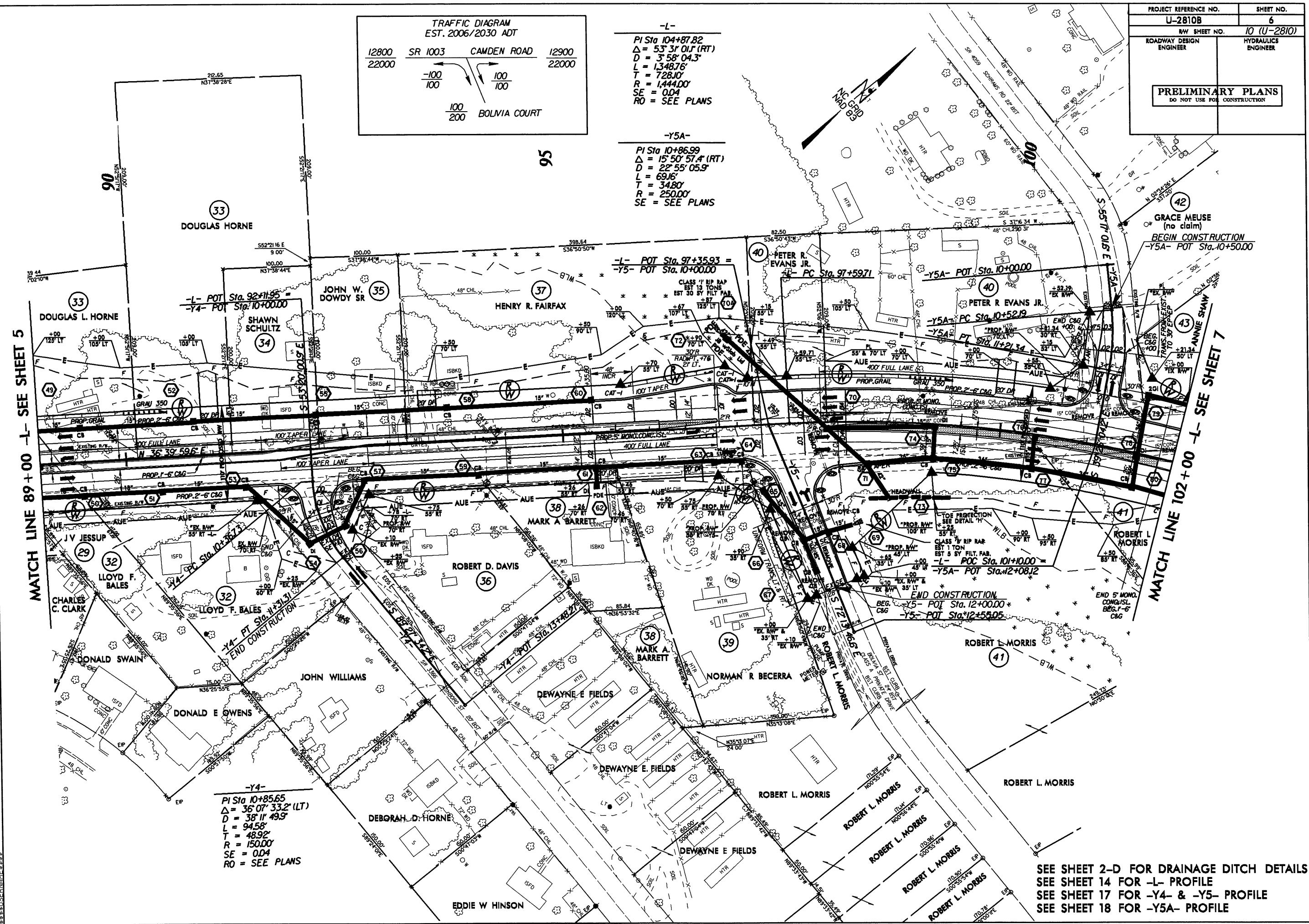


Penix Drawing
Sheet 24 of 24

Healed G-2-10

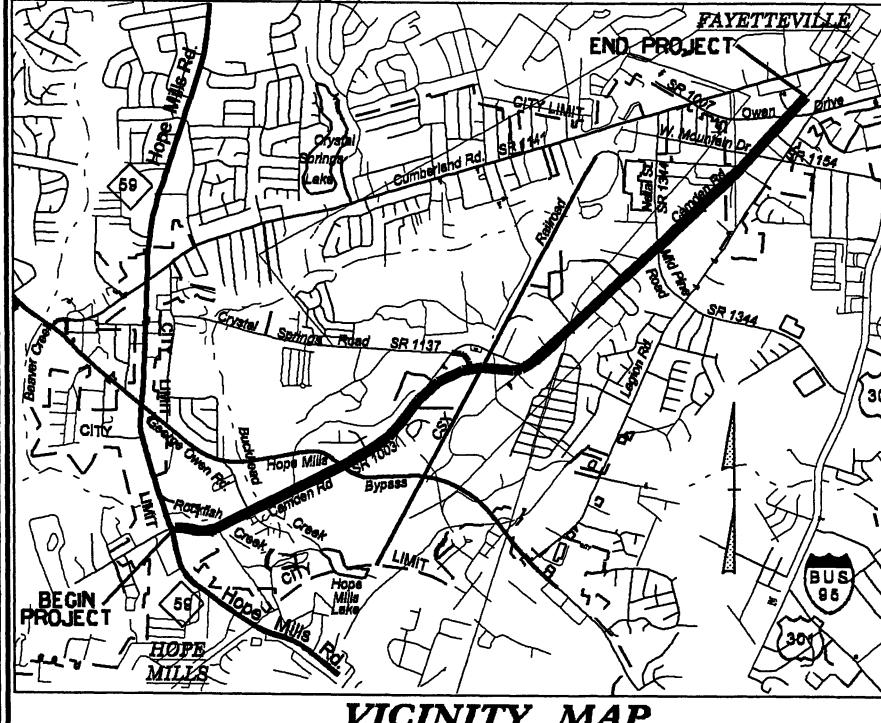


WICH LINE 89+00 1- SEE SHEET 5



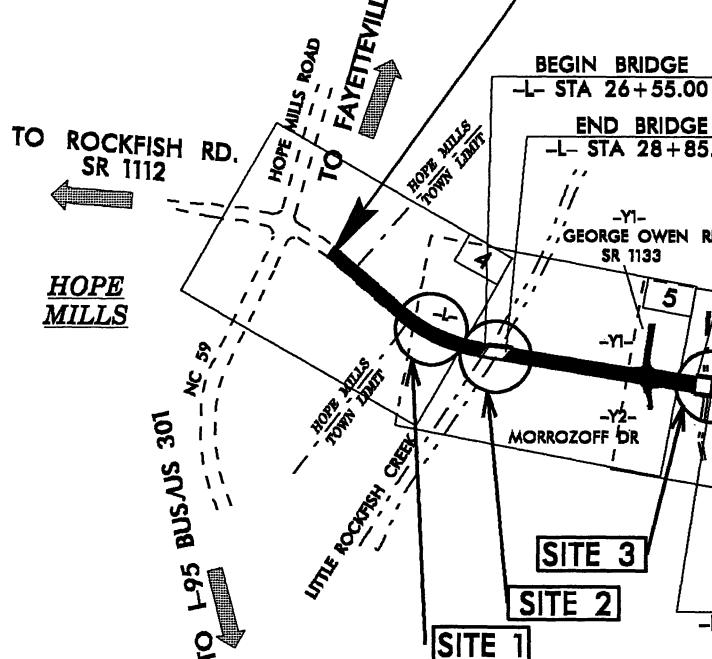
CONTRACT:

TIP PROJECT: U-2810

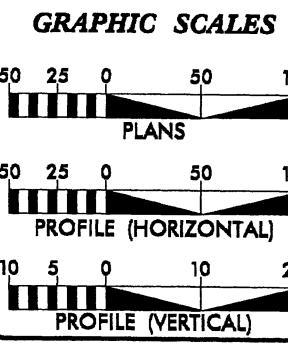


VICINITY MAP

BEGIN TIP PROJECT U-2810
-L- STA. 15+00.00



PORTIONS OF THIS PROJECT ARE WITHIN THE MUNICIPAL BOUNDRIES OF HOPE MILLS AND FAYETTEVILLE
NOTES: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II



DESIGN DATA	
ADT 2004 = 15,400	
ADT 2030 = 26,800	
DHV = 10 %	
D = 60 %	
T = 5 % *	
V = 50 MPH	
* TTST 1% DUAL 4%	

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJ. U-2810	= 4.022 MILES +/-
LENGTH STRUCTURES TIP PROJ. U-2810	= 0.101 MILES +/-
TOTAL LENGTH OF TIP PROJ. U-2810	= 4.123 MILES +/-

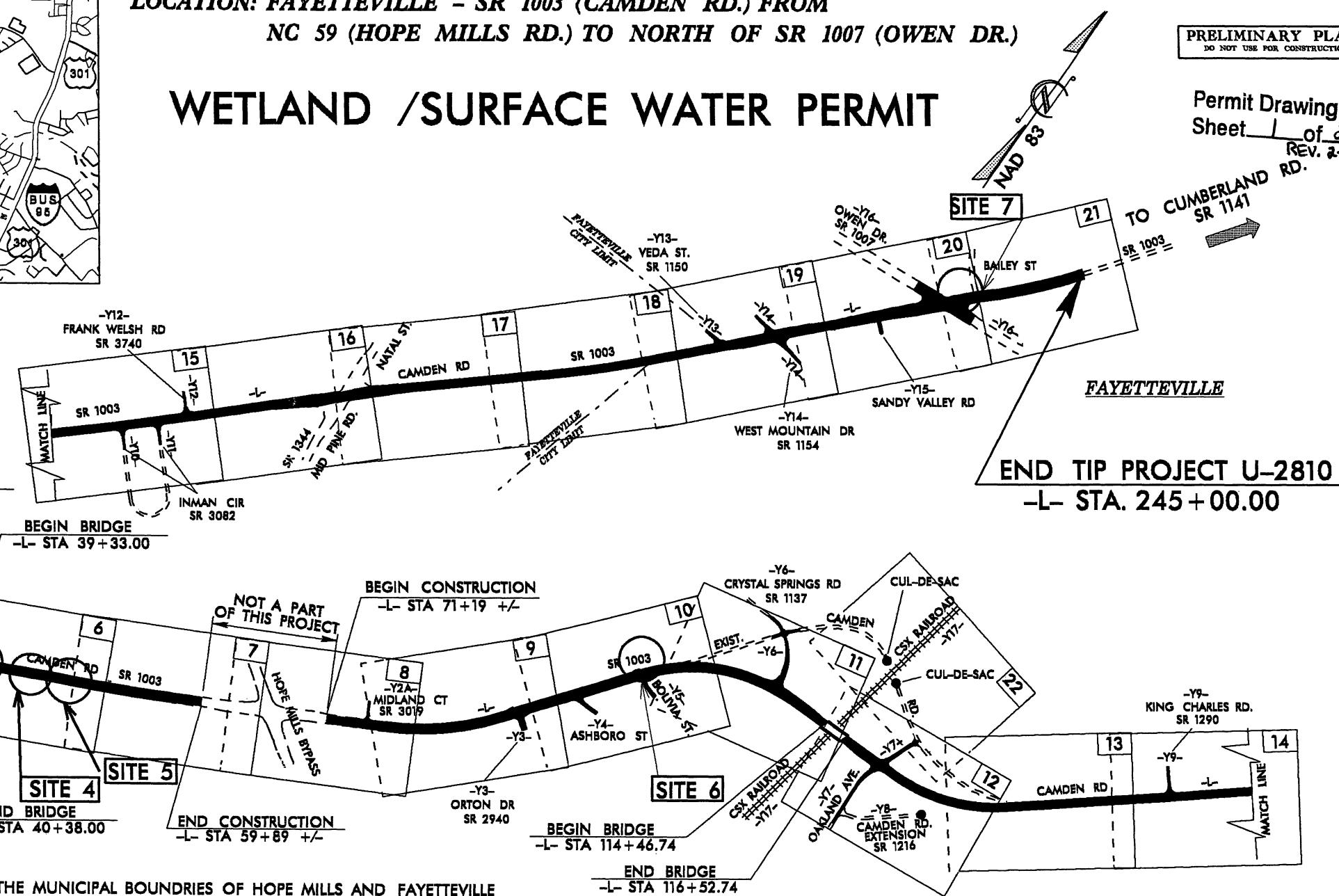
Prepared In the Office of: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr., Raleigh NC, 27610 2006 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE: SEPTEMBER 29, 2006
LETTING DATE: N/A
ROGER D. THOMAS, P.E. PROJECT ENGINEER

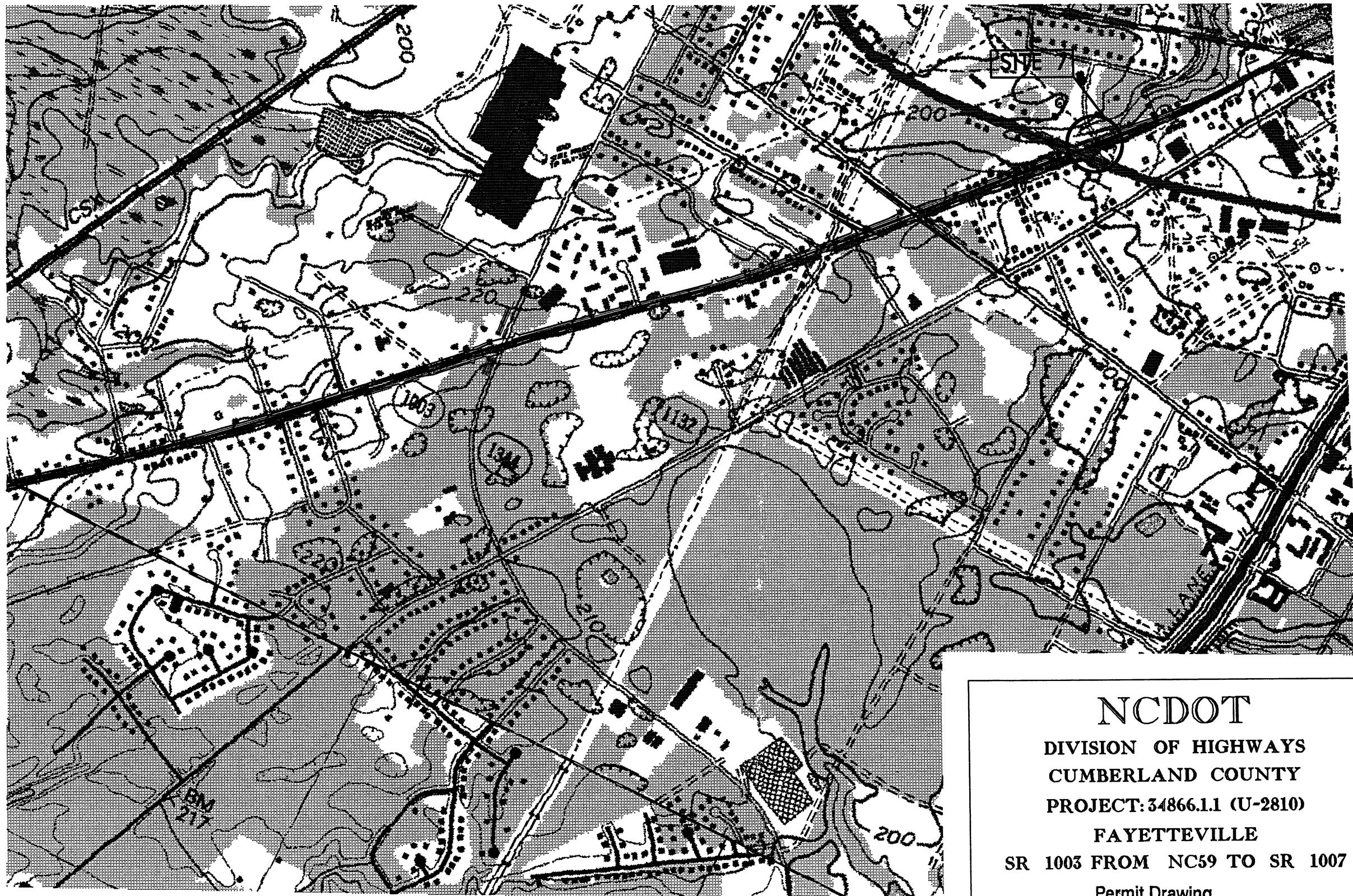
HYDRAULICS ENGINEER	
SIGNATURE:	P.E.
ROADWAY DESIGN ENGINEER	
SAMUEL L. ST. CLAIR PROJECT DESIGN ENGINEER	

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA	
STATE HIGHWAY DESIGN ENGINEER	P.E.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**CUMBERLAND COUNTY**

LOCATION: FAYETTEVILLE - SR 1003 (CAMDEN RD.) FROM
NC 59 (HOPE MILLS RD.) TO NORTH OF SR 1007 (OWEN DR.)

WETLAND /SURFACE WATER PERMITPRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTIONPermit Drawing
Sheet 1 of 26
REV. 2-18-11



NOT TO SCALE

PLAN VIEW

NCDOT
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY
PROJECT: 34866.1.1 (U-2810)
FAYETTEVILLE
SR 1003 FROM NC59 TO SR 1007
Permit Drawing
Sheet 2 of 26
REV. 2-18-11

SHEET

OF

12 / 14 / 10

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)	Existing Channel Impacts Permanent (ft)
1	21+70 -L-	42" RCP					0.03	0.01
2	27+70 -L-	BRIDGE 0.62 L=230'				0.26	0.08	0.00
		LITTLE ROCKFISH 36" PRE GIRDER						
3	39+85.50-L-	BRIDGE 0.00 BUCKHEAD CREEK L=105'					0.00	0.00
		36" PRE GIRDER						
4	45+86 -L-	CULVERT 0.01 8X6 BOX				0.01	0.03	0.01
5	49+66 -L-	2 @ 30" RCP					0.02	0.01
6	97+94 -L-	42" RCP 0.15					0.05	
7	232+60 -L-	bank stabilization					<0.01	11
		TOTALS.	0.78	0.00	0.32	0.08	0.03	284 60

SITE 2 PERMANENT IMPACT AREA DUE TO BENT LOCATIONS IS 70 SF

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY
WBS - 34866 1 1 (U-2810)

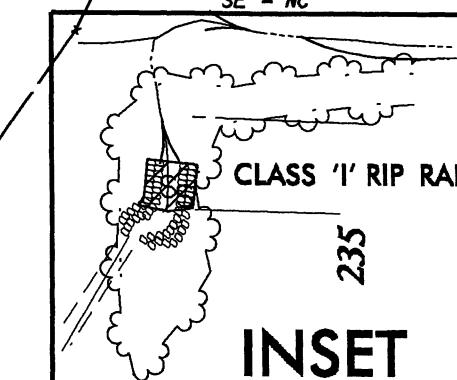
Permit Drawing
Sheet 4 of 26
REV. 2-19-11
SHEET

MATCH LINE 232+00 SEE SHEET 20

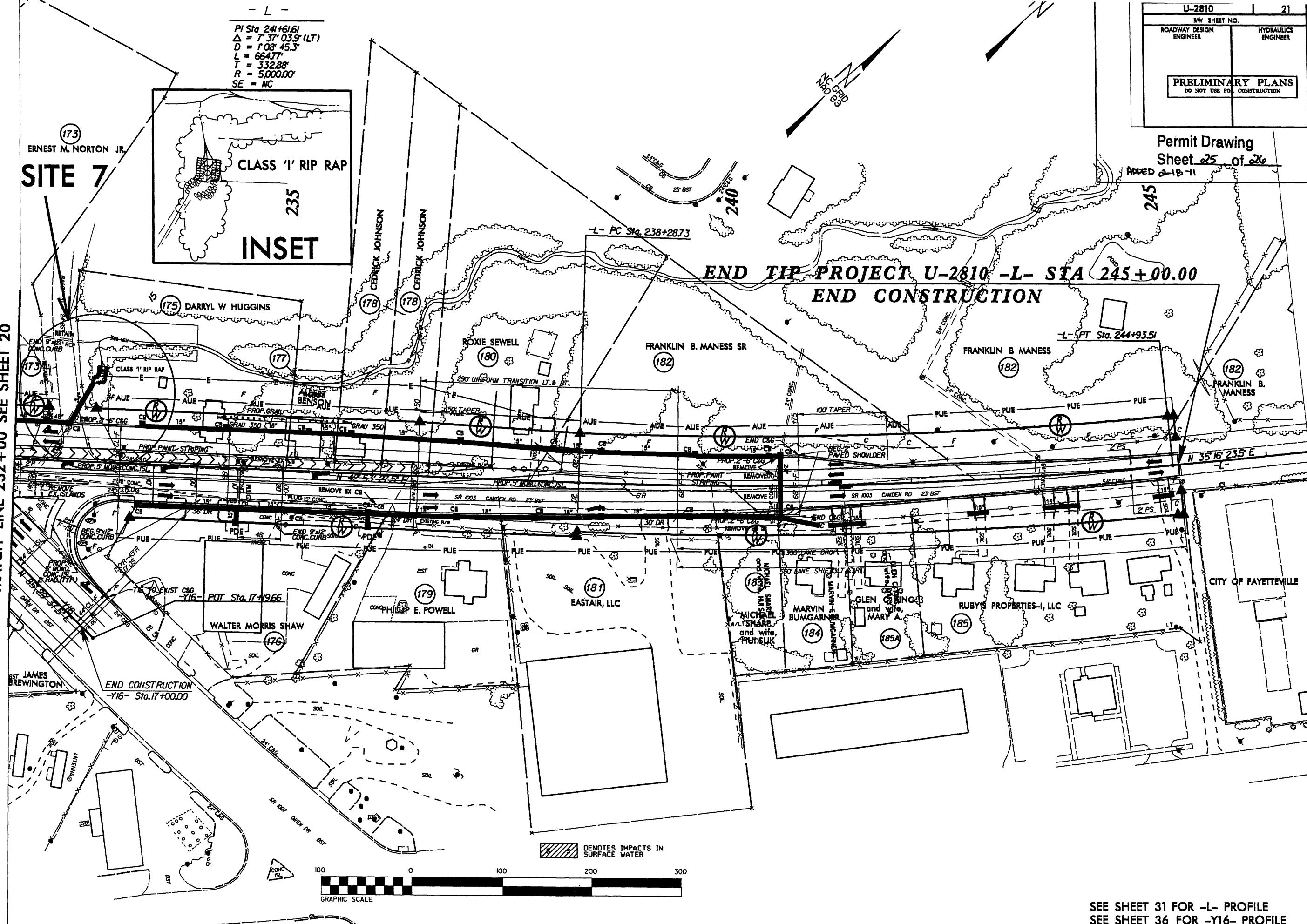
- L -
 PI Sta 241+61.61
 $\Delta = 7^{\circ} 37' 03.9''$ (LT)
 $D = 1^{\circ} 08' 45.3''$
 $L = 664.77'$
 $T = 332.88'$
 $R = 5,000.00'$
 SE - NC

173
ERNEST M. NORTON JR.

SITE 7



INSET



—

PI Sta 241+6161
 $\Delta = 7^{\circ} 37' 03.9''$ (L)
 $D = 1^{\circ} 08' 45.3''$
 $L = 664.77'$
 $T = 332.88'$
 $R = 5,000.00'$
 SE = NC

173
ERNEST M. NORTON J.

SITE 7

INSET

CLASS 'I' RIP RAIL

11-12 2021-2022 SEE SHEET 20

 DENOTES IMPACTS IN SURFACE WATER

SEE SHEET 31 FOR -L- PROFILE
SEE SHEET 36 FOR -Y16- PROFILE

PROJECT REFERENCE NO.		SHEET NO.
U-2810		21
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION </div>		

Permit Drawing
Sheet 26 of 26

A detailed line drawing of a fossilized ammonite shell, showing its complex whorl structure and siphuncular canal. The drawing is labeled with the number 177.

1

PI Sta 241+61.61
 Δ = 7 37' 03.9"
 D = 108° 45.3'
 L = 664.77'
 T = 332.88'
 R = 5,000.00'
 SE = NC

173
ERNEST M NORTON

E-232 : 33 SEE SHEET 20

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W. JACK JOHNSON
435.1
NJS55025
370.5
NJS55025

-L- PC SKL 238

END TIP PROJECT U-2810 -L- STA 245 +00.00
END CONSTRUCTION

245

1-BL- 70)
-BL- POT 2
-L- POT 24
16.24' RT
+ 00.00

U-2810

21

ROADWAY DESIGN ENGINEER

HYDRAULIC ENGINEER

1. *What is the relationship between the two concepts of the self?*

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEET 31 FOR -L- PROFILE
SEE SHEET 36 FOR -Y16- PROFILE