

**DEPARTMENT OF THE ARMY  
Wilmington District, Corps of Engineers  
Post Office Box 1890  
Wilmington, North Carolina 28402-1890**

Action ID No. 200331233

September 8, 2003

**PUBLIC NOTICE**

The North Carolina Department of Transportation, ATTN: Dr. Gregory J. Thorpe, Director, Project Development and Environmental Analysis Branch, 1548 Mail Service Center, Raleigh, North Carolina 27699-1548 has applied for a Department of the Army (DA) permit TO DISCHARGE DREDGED OR FILL MATERIAL INTO .22 ACRES OF WETLAND AND 2128 LINEAR FEET OF STREAM CHANNEL IN THE WATERS AND ADJACENT WETLANDS OF McLIN CREEK AND UNNAMED TRIBUTARIES, UNNAMED TRIBUTARIES OF TOWN CREEK AND AN UNNAMED TRIBUTARY OF SMYRE CREEK TO FACILITATE THE CONSTRUCTION OF 3.9 MILES OF THE NEWTON-CONOVER EASTERN LOOP FROM NC HIGHWAY 16 ON THE SOUTH TO SR 1739 (EMANUEL CHURCH ROAD) EAST OF NEWTON, CATAWBA COUNTY, NORTH CAROLINA (TIP NO. U-2404A, STATE PROJECT NO. 8.1792401, FEDERAL AID PROJECT NO. STP-16(2)).

The following description of the work is taken from data provided by the applicant and from observations made during an onsite visit by a representative of the Corps of Engineers. Plans submitted with the application show the proposed construction of a four-lane, curb and gutter, divided highway facility on a 100-foot wide right-of-way from NC Highway 16 on the south to Emanuel Church Road on the north, a distance of approximately 3.9 miles. Median width would vary from 9 to 18 feet. The alignment of the proposed road would be on new location and there would be no control of access. Near its southern terminus the proposed road would cross an unnamed tributary to Smyre Creek (Site 1) where an existing culvert would be replaced and extended. Between SR 1966 (Eastway Drive) and SR 1754 (McRee Road) the proposed road would cross three unnamed tributaries to Town Creek with new pipe installation (Sites 2, 3 and 4). North of SR 1735 (Mt. Olive Church Road) the new roadway would cross McLin Creek and four unnamed tributaries (Sites 5, 6, 7, 9 and 10). McLin Creek would also be impacted by improvements to SR 1746 (Burriss Road) where an existing double-cell box culvert would be extended (Site 8). Channel impacts from box culvert and pipe installation would total 2128 linear feet. Individual impacts range from 59 linear feet at Site 1 to 312 linear feet at Site 6. All culverted crossings are on perennial channels with the exception of the intermittent stream at Site 5. Wetlands totaling .22 acres would be impacted at two of the stream crossings in the Town Creek Basin. Individual impacts range from .15 acres at Site 2 to .07 acres at Site 4. The wetlands are forested and scrub-shrub systems vegetated with a mixture of species including red maple, tulip poplar, tag alder, blackberry, giant cane and poison ivy.

The project as a whole would impact .22 acres of wetland, 177 linear feet of intermittent stream channel and 1951 linear feet of perennial stream channel. Based on a field assessment of stream function, the applicant is proposing to mitigate for the stream losses at ratios from 1:1 to 2:1 with a total of 3400 linear feet of stream mitigation proposed. Wetlands would be mitigated at a 2:1 ratio. To accomplish this mitigation, the applicant proposes to utilize the North Carolina Ecosystem Enhancement Program (EEP). The proposed mitigation for Sites 1-4 would occur in the South Fork Catawba River Basin, Hydrologic Unit 03050102 and mitigation for Sites 5-10 would occur in the Upper Catawba River Basin, Hydrologic Unit 03050101. An Environmental Assessment (EA) for the proposed work was approved by the Federal Highway Administration on December 10, 1996. A Finding of No Significant Impact was signed on August 29, 1997. An Indirect and Cumulative Impact Study for this project was completed in July of 2003. A portion of the Newton-Conover Eastern Loop (TIP U-2404B) consisting of a new interchange at Interstate Highway 40 has been completed. The purpose of the proposed work is to improve accessibility around the east side of Newton and Conover to I-40. The project is also intended to reduce traffic congestion in the central business districts by providing an opportunity to relocate NC 16. Plans showing the proposed work are included with this public notice.

The State of North Carolina will review this public notice to determine the need for the applicant to obtain any required State authorization. No Department of the Army (DA) permit will be issued until the coordinated State viewpoint on the proposal has been received and reviewed by this agency, nor will a DA permit be issued until the North Carolina Department of Environment and Natural Resources (NCDENR) has determined the applicability of a Water Quality Certificate as required by PL 92-500.

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

The District Engineer has consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not registered property or property listed as being eligible for inclusion in the Register. Consultation of the National Register constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently, unknown archeological, scientific, prehistorical, or historical data may be lost or destroyed by work under the requested permit.

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

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts which the proposed activity may have on the public interest requires a careful weighing of all those factors which become relevant in each particular case. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors which may be relevant to the proposal must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards and flood plain values (in accordance with Executive Order 11988), land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the placement of dredged or fill materials in waters of the United States, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria, a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

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

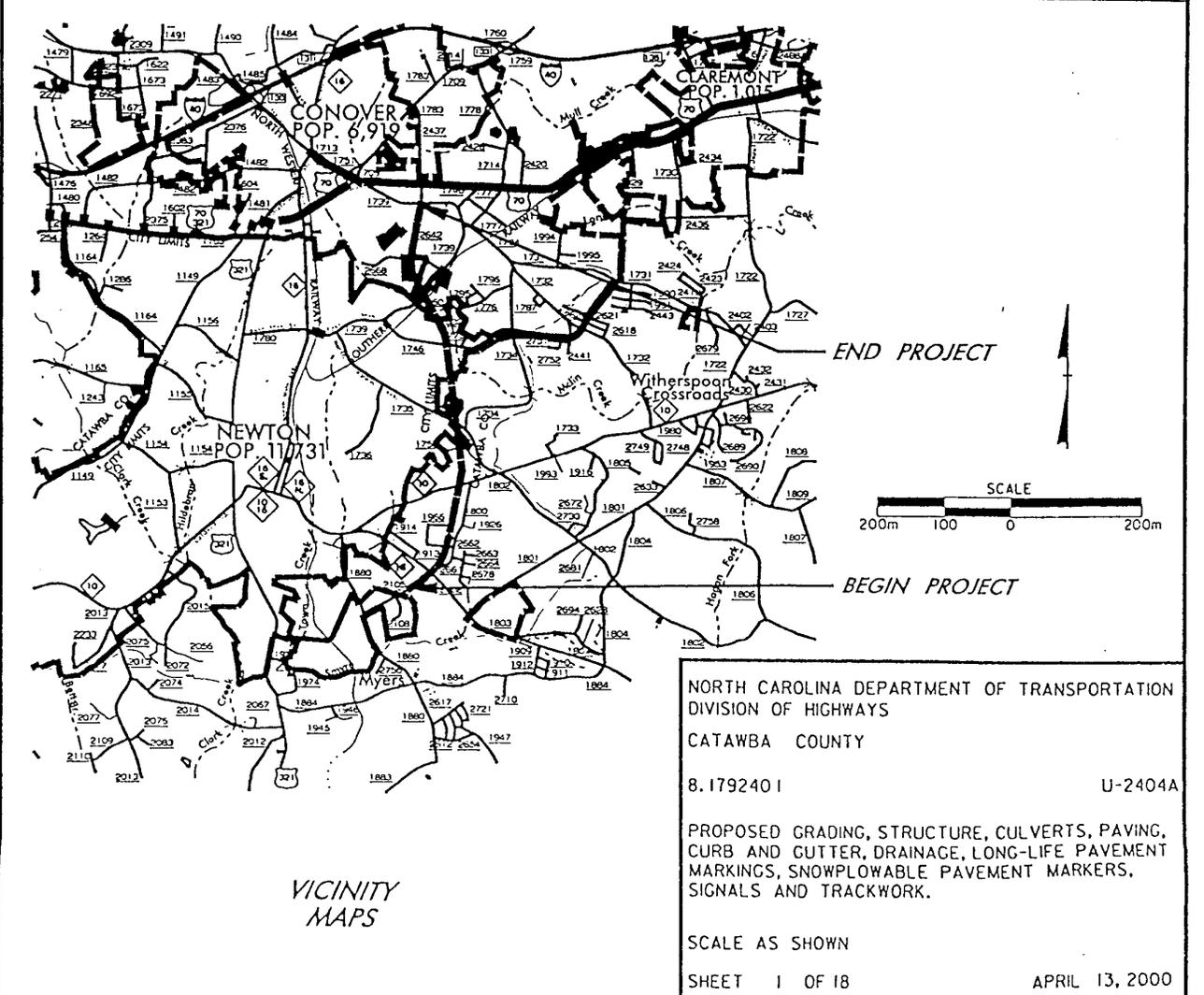
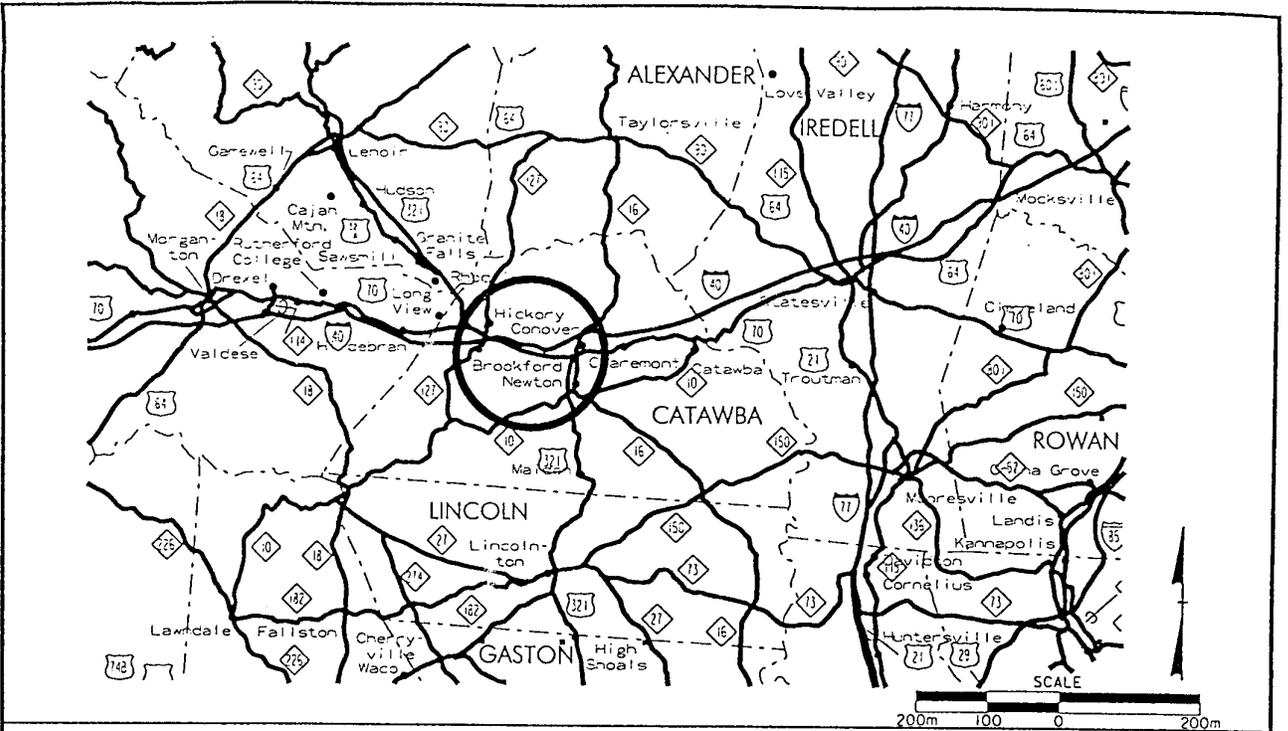
Generally, the decision whether to issue this Department of the Army (DA) permit will not be made until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act. The NCDWQ considers whether or not the proposed activity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

Additional information regarding the Clean Water Act certification may be reviewed at the offices of the 401 Wetlands Certification Unit, North Carolina Division of Water Quality (NCDWQ), 2321 Crabtree Blvd., Raleigh, North Carolina 27604. Copies of such materials will be furnished to any person requesting copies upon payment of reproduction costs.

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All persons desiring to make comments regarding the application for Clean Water Act certification should do so in writing delivered to the North Carolina Division of Water Quality Wetlands Section, 1650 Mail Service Center, Raleigh, North Carolina 27626-0621, on or before September 30, 2003, Attention: Mr. John Dorney.

Written comments pertinent to the proposed work, as outlined above, will be received in this office, Attention: Mr. Steven Lund, until 4:15 p.m., October 7, 2003, or telephone (828) 271-7980.



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CATAWBA COUNTY

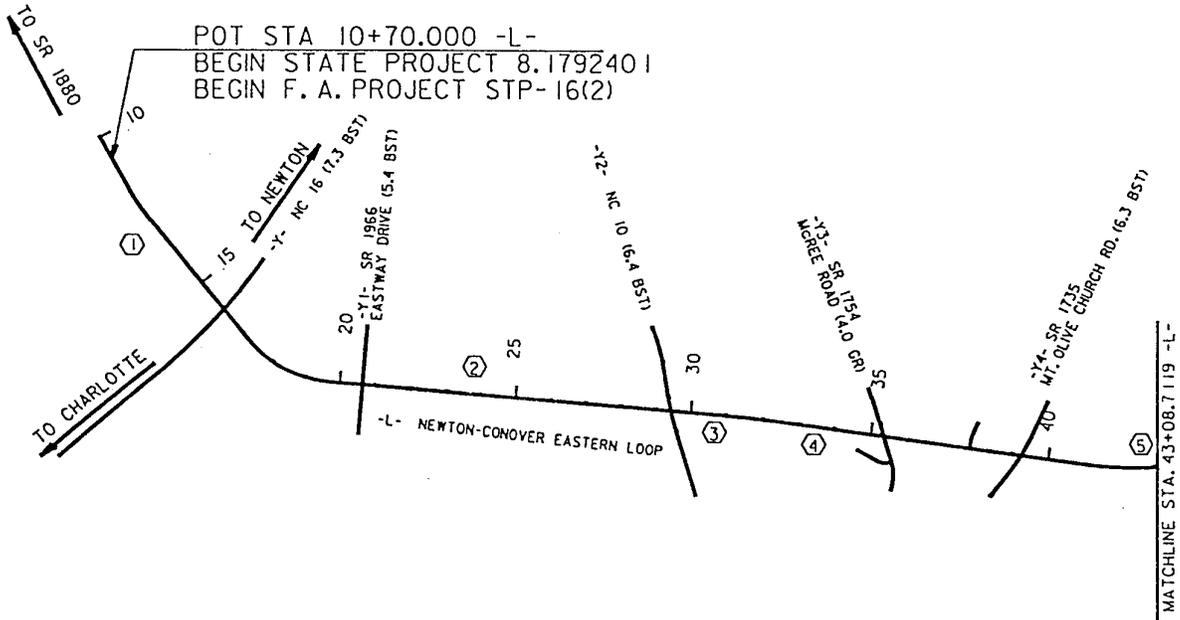
8.179240 I U-2404A

PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
 CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
 MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
 SIGNALS AND TRACKWORK.

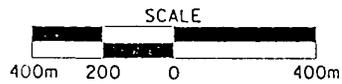
SCALE AS SHOWN

SHEET 1 OF 18 APRIL 13, 2000

VICINITY  
 MAPS



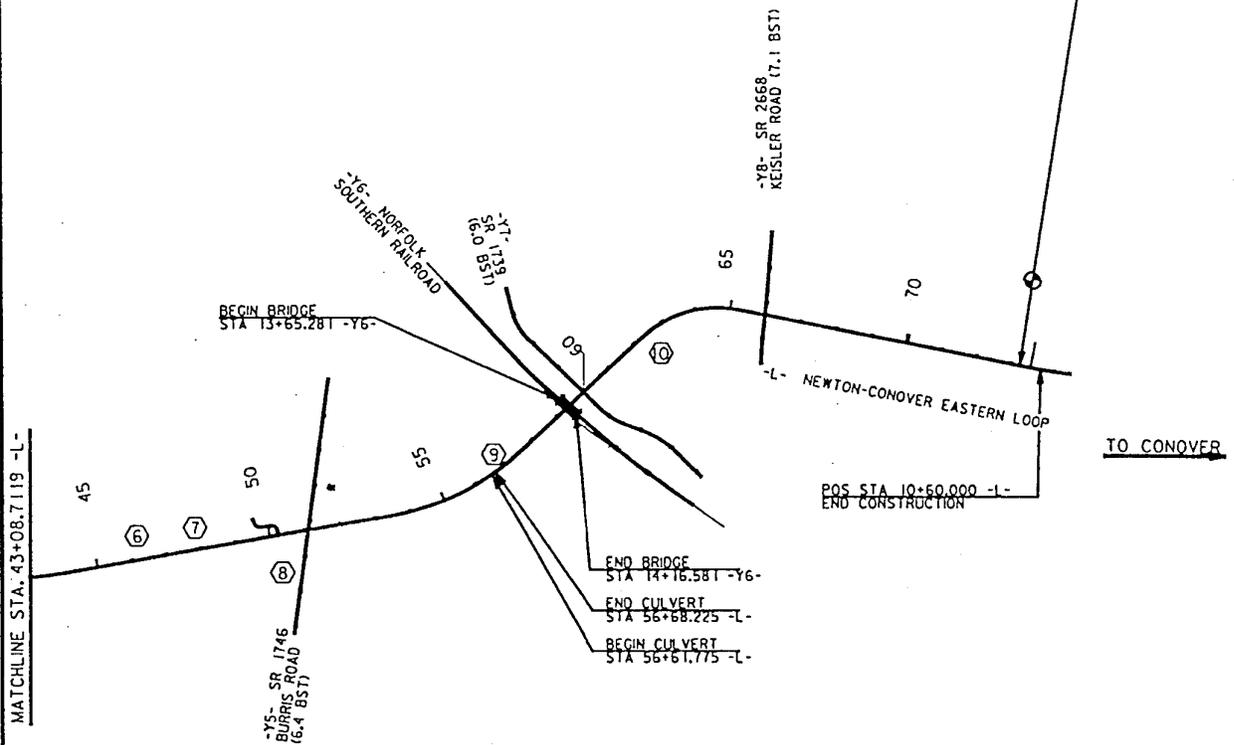
### SITE MAP



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CATAWBA COUNTY  
8.1792401 U-2404A  
PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
SIGNALS AND TRACKWORK.  
SCALE AS SHOWN  
SHEET 2 OF 18  
APRIL 13, 2000



POT STA 73+05.621 -L- =  
 POT STA 9+80.000 -L- (U-2404B)  
 END STATE PROJECT 8.1792401  
 END F. A. PROJECT STP-16(2)



SITE MAP



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CATAWBA COUNTY

8.1792401 U-2404A

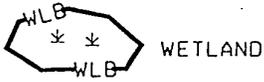
PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
 CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
 MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
 SIGNALS AND TRACKWORK.

SCALE AS SHOWN

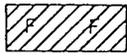
SHEET 3 OF 18 APRIL 13, 2000

# LEGEND

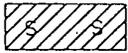
—WLB— WETLAND BOUNDARY



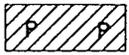
WETLAND



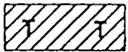
DENOTES FILL IN WETLAND



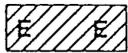
DENOTES FILL IN SURFACE WATER



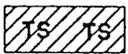
DENOTES FILL IN SURFACE WATER (POND)



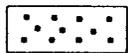
DENOTES TEMPORARY FILL IN WETLAND



DENOTES EXCAVATION IN WETLAND



DENOTES TEMPORARY FILL IN SURFACE WATER



DENOTES MECHANIZED CLEARING

← ← FLOW DIRECTION

—TB— TOP OF BANK

---WE--- EDGE OF WATER

—C— PROP. LIMIT OF CUT

—F— PROP. LIMIT OF FILL

▲ PROP. RIGHT OF WAY

---NG--- NATURAL GROUND

—PL— PROPERTY LINE

—TOE— TEMP. DRAINAGE EASEMENT

—PDE— PERMANENT DRAINAGE EASEMENT

—EAB— EXIST. ENDANGERED ANIMAL BOUNDARY

—EPB— EXIST. ENDANGERED PLANT BOUNDARY

---▽--- WATER SURFACE

X X X LIVE STAKES



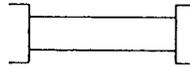
BOULDER



COIR FIBER ROLLS



ADJACENT PROPERTY OWNER OR PARCEL NUMBER



PROPOSED BRIDGE



PROPOSED BOX CULVERT

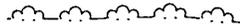


PROPOSED PIPE CULVERT

(DASHED LINES DENOTE EXISTING STRUCTURES)



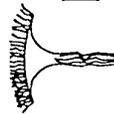
SINGLE TREE



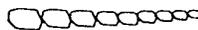
WOODS LINE



DRAINAGE INLET



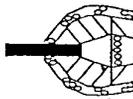
ROOTWAD



VANE



RIP RAP



RIP RAP ENERGY DISSIPATOR BASIN

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

CATAWBA COUNTY

8.1792401

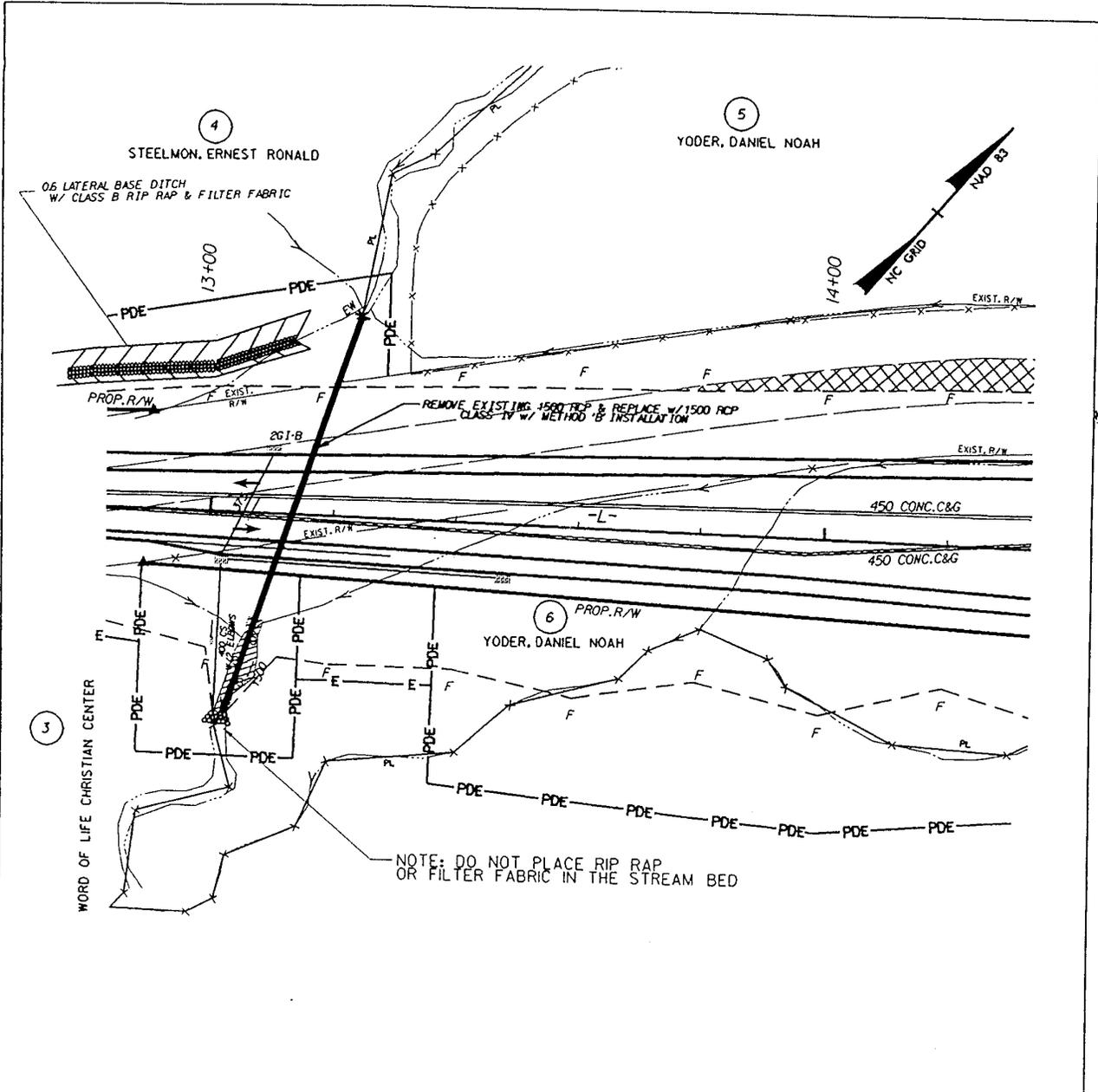
U-2404A

PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
SIGNALS AND TRACKWORK.

SCALE AS SHOWN

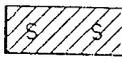
SHEET 4 OF 18

APRIL 13, 2000

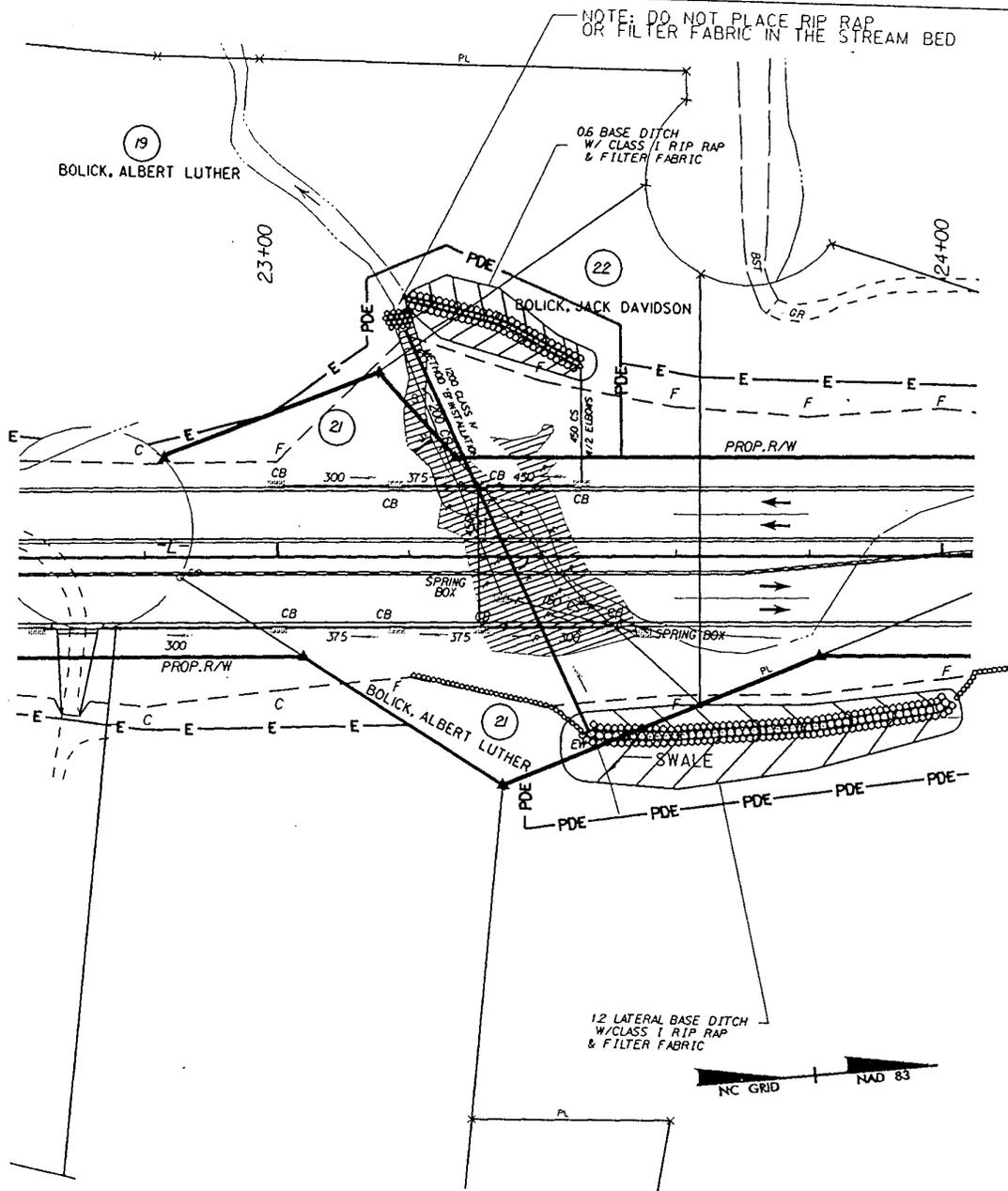


**SITE # 1**



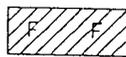
 DENOTES FILL IN SURFACE WATER

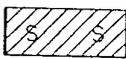
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CATAWBA COUNTY  
8.1792401 **TIP U-2404A**  
PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
SIGNALS AND TRACKWORK.  
SCALE AS SHOWN  
SHEET 5 OF 18  
August, 2003



SITE #2



 DENOTES FILL IN WETLAND

 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CATAWBA COUNTY

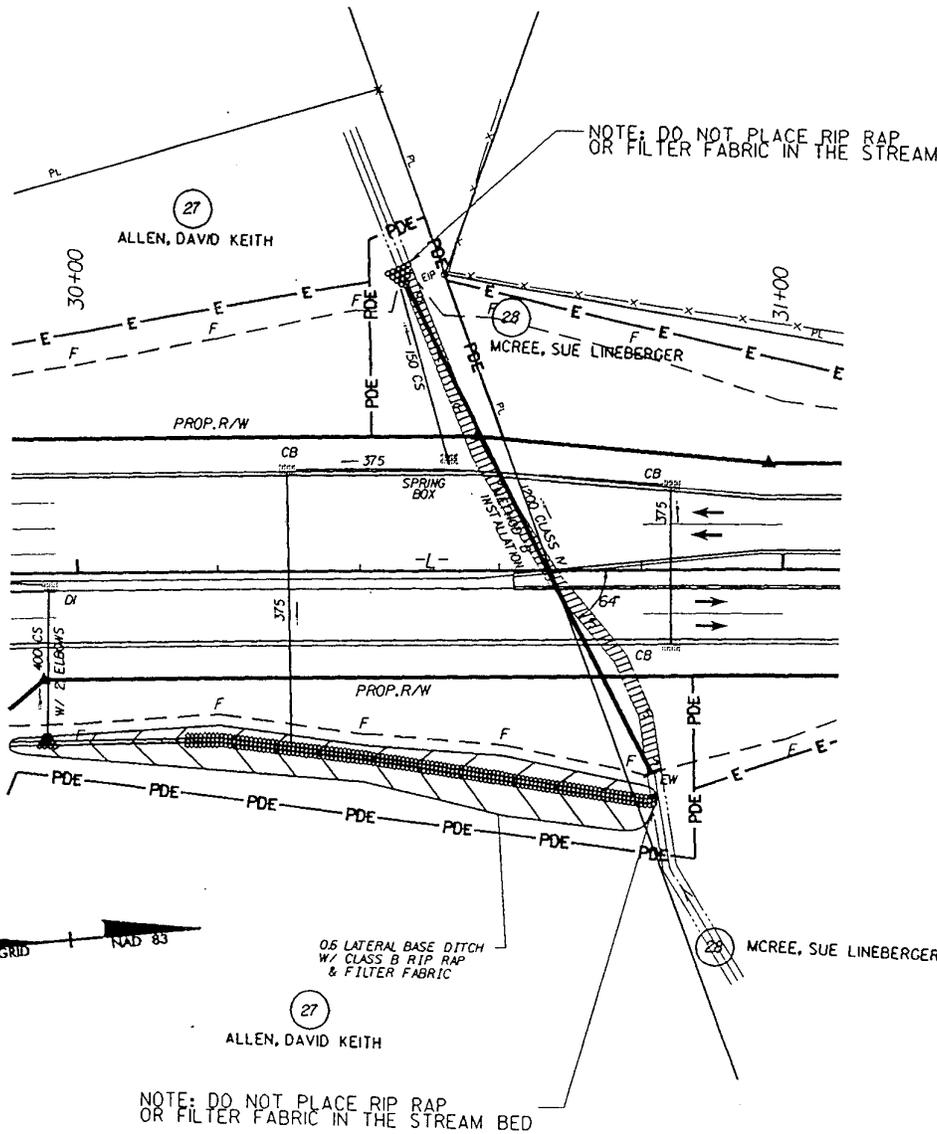
8.1792401 *T.I.P. 11-2404A*

PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING, CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS, SIGNALS AND TRACKWORK.

SCALE AS SHOWN

SHEET 6 OF 18

August, 2003



**SITE #3**



 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CATAWBA COUNTY  
 8.1792401 *TIP U-2404A*  
 PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
 CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
 MARKINGS, SNOWPLOWABLE PAVEMENT MAKRERS,  
 SIGNALS AND TRACKWORK.  
 SCALE AS SHOWN  
 SHEET 7 OF 18  
 August, 2003





42

COCHRANE FURNITURE CO. INC.

NOTE: DO NOT PLACE RIP RAP OR FILTER FABRIC IN THE STREAM BED.

GRADE TO DRAIN UPON COMPLETION OF PROJECT.

0.6 LATERAL BASE DITCH W/ CLASS B RIP RAP & FILTER FABRIC

42+00

PDE

PDE

PDE

E

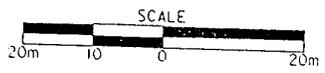
F

PROP. R/W

SPRING BOX

1800 CLASS 'B' METHOD 'B'

PROP. R/W



Denotes fill in surface water

Denotes rip rap

46

HEWITT, MARIE P.

45

HEWITT, VELDA MAE

LATERAL 'V' DITCH

43+00

45

HEWITT, VELDA MAE DB 1843 PG 675

# SITE #5

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CATAWBA COUNTY

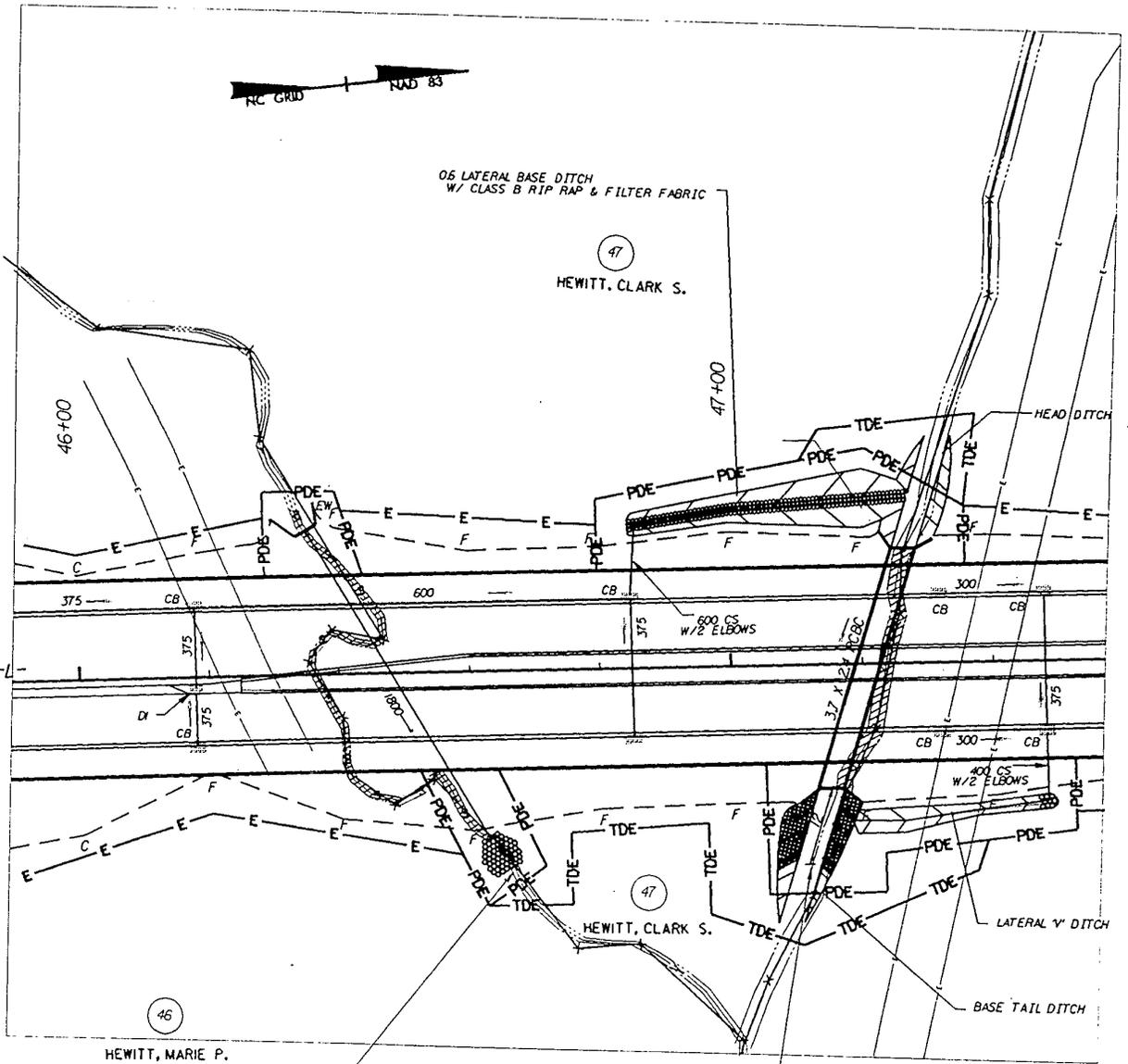
8.1792401 *U-2404A*

PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING, CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS, SIGNALS AND TRACKWORK.

SCALE AS SHOWN

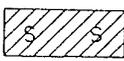
SHEET 9 OF 15

August, 2003



SITE #6 & 7



 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CATAWBA COUNTY

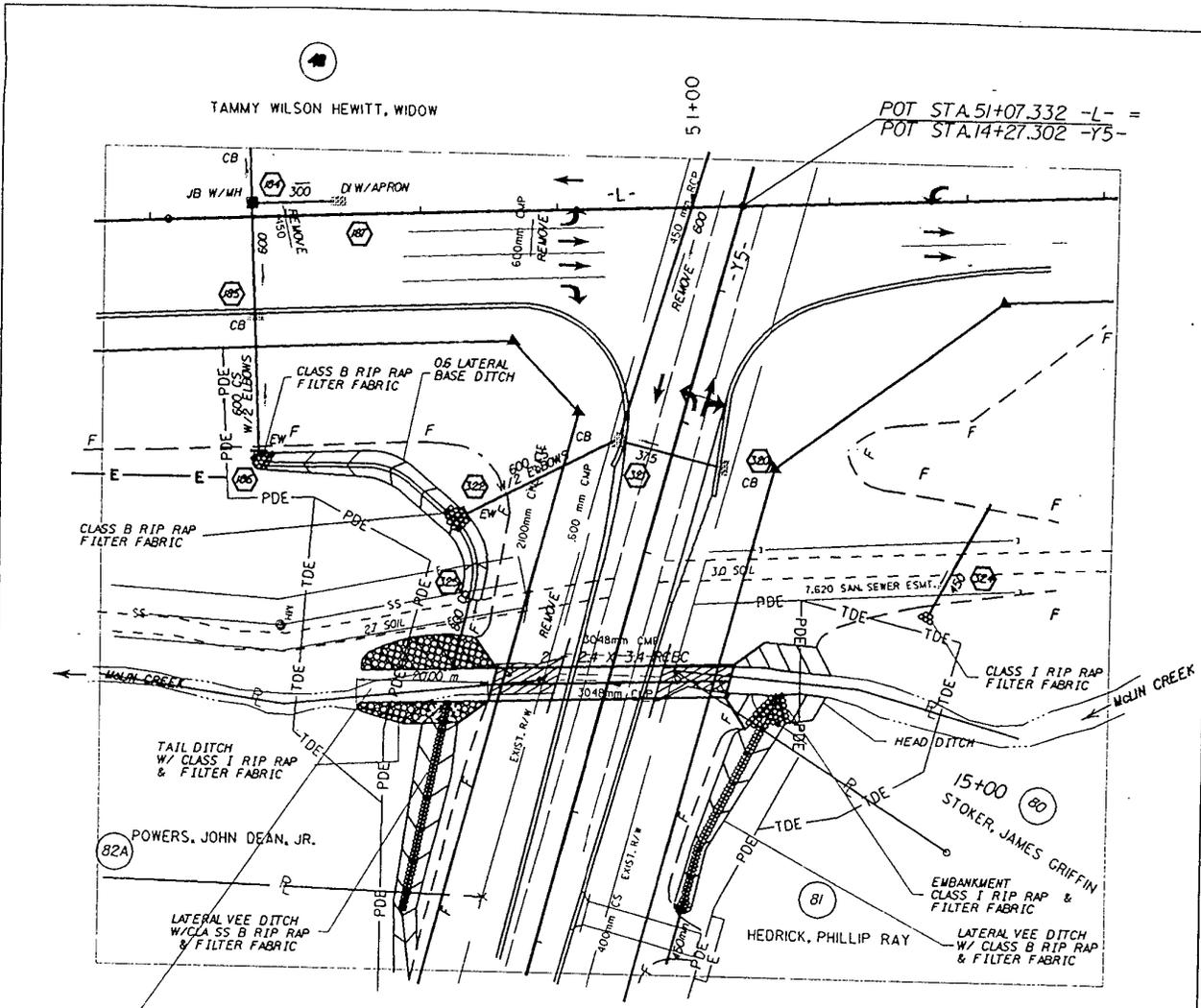
8.1792401 *TIP U-2404A*

PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
SIGNALS AND TRACKWORK.

SCALE AS SHOWN

SHEET 10 OF 18

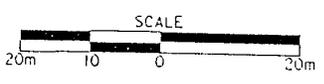
August, 2003



NOTE: DO NOT PLACE RIP RAP OR FILTER FABRIC IN PROPOSED STREAM BED

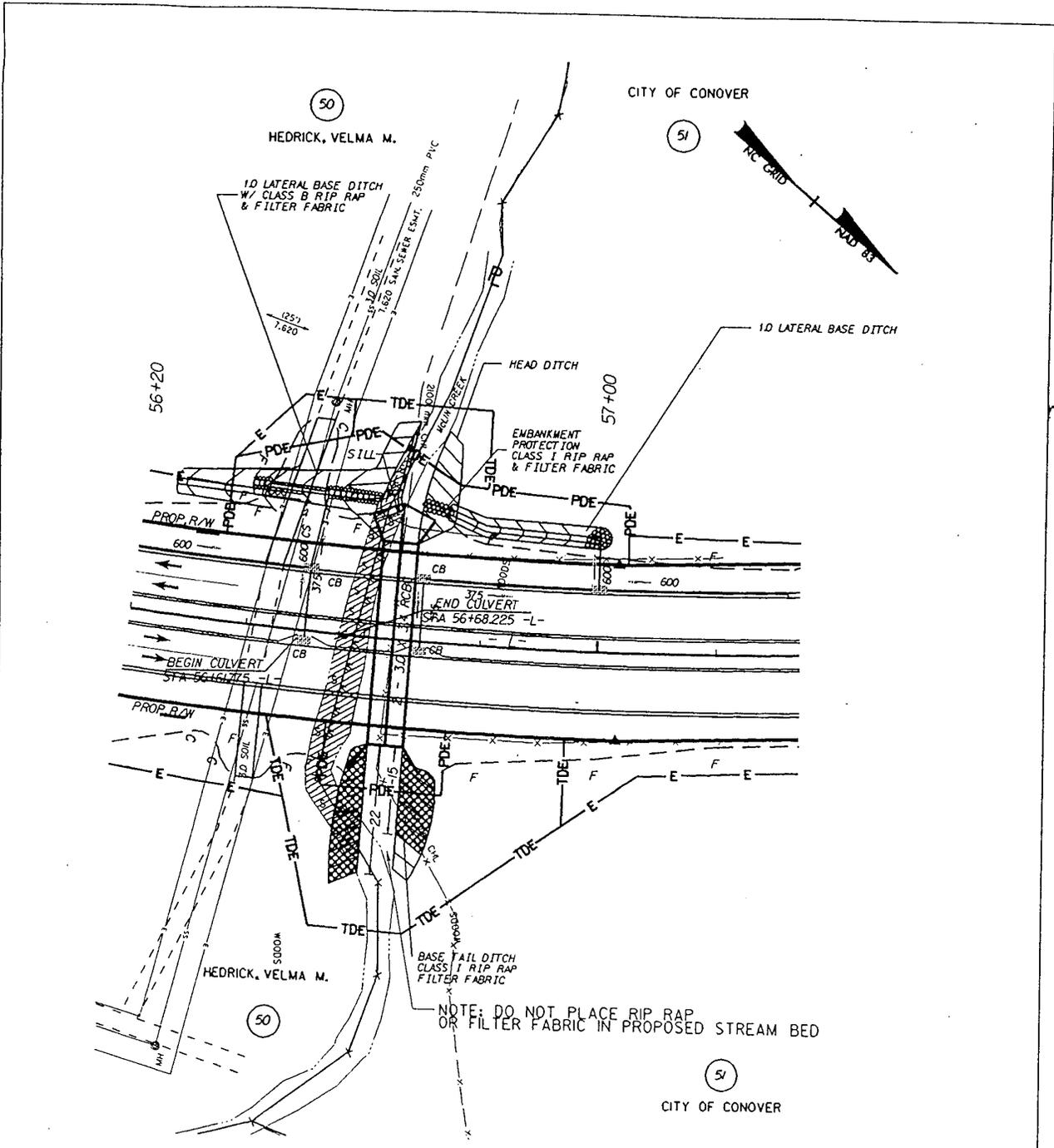


# SITE #8

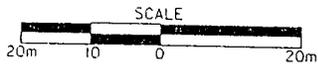


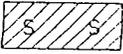
 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CATAWBA COUNTY  
 8.1792401 *TIP LL-2404A*  
 PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
 CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
 MARKINGS, SNOWPLOWABLE PAVEMENT MAKERS,  
 SIGNALS AND TRACKWORK.  
 SCALE AS SHOWN  
 SHEET 11 OF 18  
 August, 2003



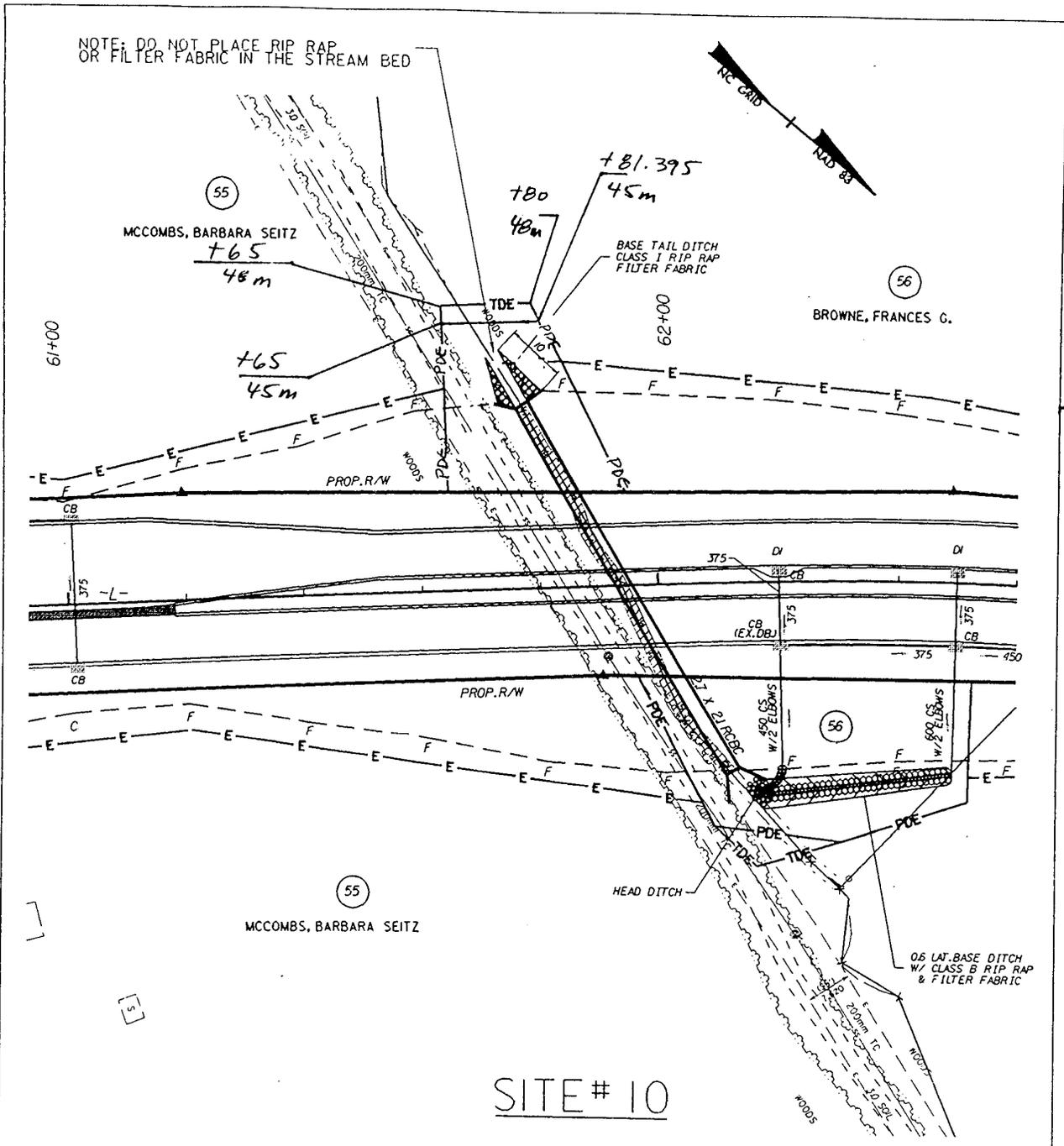
**SITE #9**



 DENOTES FILL IN SURFACE WATER

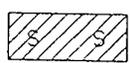
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CATAWBA COUNTY  
 8.1792401 **TIP U-2404A**  
 PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
 CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
 MARKINGS, SNOWPLOWABLE PAVEMENT MAKRERS,  
 SIGNALS AND TRACKWORK.  
 SCALE AS SHOWN  
 SHEET 12 OF 18  
 August, 2003

NOTE: DO NOT PLACE RIP RAP OR FILTER FABRIC IN THE STREAM BED



SITE # 10



 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CATAWBA COUNTY  
 8.1792401 **TIP U-2404A**  
 PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
 CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
 MARKINGS, SNOWPLOWABLE PAVEMENT MAKRERS,  
 SIGNALS AND TRACKWORK.  
 SCALE AS SHOWN  
 SHEET 13 OF 19  
 August, 2003

PROPERTY OWNER

NAME AND ADDRESS

PARCEL #	OWNER'S NAME	ADDRESS
3	WORD OF LIFE CHRISTIAN CENTER	P.O. BOX 998 NEWTON, NC 28658
4	STEELMON, ERNEST RONALD	P.O. BOX 582 NEWTON, NC 28658
5	YODER, DANIEL NOAH	P.O. BOX 93 NEWTON, NC 28658
6	YODER, DANIEL NOAH	P.O. BOX 93 NEWTON, NC 28658
19	BOLICK, ALBERT LUTHER	2317 BETHANY CHURCH RD. NEWTON, NC 28658
21	BOLICK, ALBERT LUTHER	2317 BETHANY CHURCH RD. NEWTON, NC 28658
22	BOLICK, JACK DAVIDSON	54720 PROGRESS CT. VERADALE, WA 99037

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

CATAWBA COUNTY

8.1792401

U-2404A

PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
CURB AND GUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
SIGNALS AND TRACKWORK.

SCALE AS SHOWN

SHEET 14 OF 18

APRIL 13, 2000

# PROPERTY OWNER

NAME AND ADDRESS

PARCEL #	OWNER'S NAME	ADDRESS
27	ALLEN, DAVID KEITH	1848 E. NC 10 HWY NEWTON, NC 28658
28	MCREE, SUE LINEBERGER	1904 E. NC 10 HWY NEWTON, NC 28658
32	MCREE, ALICE MELINDA	1725 McKEE RD. NEWTON, NC 28658
33	MATHEWS, JEFFERY GUY	1859 McKEE RD. NEWTON, NC 28658
42	COCHRANE FURNITURE CO. INC.	P.O. BOX 220 LINCOLNTON, NC 28092
45	HEWITT, VELDA MAE	RR 3 BOX 802 CONOVER, NC 28613
46	HEWITT, MARIE P.	1871 MT. OLIVE CHURCH RD. NEWTON, NC 28658

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

CATAWBA COUNTY

8.1792401

U-2404A

PROPOSED GRADING, STRUCTURE, CULVERTS, PAVING,  
CURB AND CUTTER, DRAINAGE, LONG-LIFE PAVEMENT  
MARKINGS, SNOWPLOWABLE PAVEMENT MARKERS,  
SIGNALS AND TRACKWORK.

SCALE AS SHOWN

SHEET 15 OF 18

APRIL 13, 2000

PROPERTY OWNER  
NAME AND ADDRESS

PARCEL #	OWNER'S NAME	ADDRESS
47	HEWITT, CLARK S.	P.O. BOX 1411 TAPPAHANNO, VA 22560
48	HEWITT, ROBERT AUGUSTUS	1827 BURRIS RD. CONOVER, NC 28613
81	STOKER, JAMES GRIFFIN	902 E. 23RD ST. NEWTON, NC 28658
82	HEDRICK, PHILLIP RAY	1697 PRESTIGE DR. CONOVER, NC 28613
83	REYNOLDS, JOHNNY DALE	RR 3 BOX 778 CONOVER, NC 28613
50	HEDRICK, VELMA M.	1695 SMYRE FARM RD NEWTON, NC 28658
51	CITY OF CONOVER	P.O. BOX 549 CONOVER, NC 28613

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CATAWBA COUNTY

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SIGNALS AND TRACKWORK.

SCALE AS SHOWN

SHEET 16 OF 18

APRIL 13, 2000



**SUMMARY**

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Interchange Isolated Wetland (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	
1	13+01 - 13+09 -L-	1500 RCP	0	0	0	0	0	0.01	0	18	0	0
2	23+20 - 23+56 -L-	1200 RCP	0.06	0	0	0	0	<0.01	0	22	0	0
3	30+47 - 30+81 -L-	1200 RCP	0	0	0	0	0	0.02	0	81	0	0
4	33+66 - 34+07 -L-	900 RCP	0.02	0	0	0	0	<0.01 ha	0	72	0	0
5	42+15 - 42+37 -L-	1200 RCP	0	0	0	0	0	<0.01	0.03	54	0	0
6	46+36 - 46+61 -L-	1800 RCP	0	0	0	0	0	0.01	0	95	0	0
7	47+16 - 47+28 -L-	3.7 x 2.4 RCBC	0	0	0	0	0	0.01	0	79	0	0
8	14+92 - 15+06 -Y5-	2@2.4 x 3.4 RCBC	0	0	0	0	0	0.01	0	55	0	0
9	56+52 - 56+62 -L-	2@3.0 x 3.4 RCBC	0	0	0	0	0	0.03	0	83	0	0
10	61+77 - 62+12 -L-	2.7 x 2.1 RCBC	0	0	0	0	0	0.01	0	90	0	0
		TOTALS	0.08 ha	0 ha	0 ha	0 ha	0 ha	<0.01 ha	0.14 ha	0.03 ha	649 m	0 m

N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 CATAWBA COUNTY  
 PROJECT: 8.1792401 U2404A  
 PROPOSED GRADING, STRUCTURE, CULVERTS,  
 PAVING, CURB AND GUTTER, DRAINAGE, LONG-LIFE  
 PAVEMENT MARKINGS, SNOWPLOWABLE  
 PAVEMENT MARKERS, SIGNALS AND TRACKWORK.  
 SHEET 18 OF 18 AUGUST 5,2000