



US Army Corps
Of Engineers
Wilmington District

PUBLIC NOTICE

Issue Date: April 13, 2007
Comment Deadline: May 14, 2007
Corps Action ID #: SAW-2007-700-360

The Wilmington District, Corps of Engineers (Corps) has received an application from the North Carolina Department of Transportation, Project Development and Environmental Analysis Branch, Attn: Dr. Gregory J. Thorpe, Director, seeking Department of the Army authorization to impact 1.28 acres of wetland, 458 linear feet of stream channel and 0.01 acres of open water pond in and adjacent to Sixmile Creek, Flat Branch and unnamed tributaries associated with the proposed widening of NC Highway 16 (Providence Road) from SR 2948 (Rea Road Extension) in Union County to Interstate 485 (I-485) in Mecklenburg County, south of Charlotte, North Carolina, TIP No. U-2510A.

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

Applicant: North Carolina Department of Transportation
Project Development and Environmental Analysis Branch
Attn: Dr. Gregory J. Thorpe
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Authority

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

Location

The proposed project involves the widening of 3.6 miles of NC Highway 16 from the Rea Road Extension on the south to I-485 on the north between Weddington and Charlotte, North Carolina. The project would cross Sixmile Creek, Flat Branch and several unnamed tributaries. The project is located in the west central portion of Union County and the south central portion of Mecklenburg County at approximately 35.03561 degrees north latitude and 80.7677 degree west longitude and is in the Catawba River Basin, Hydrologic Unit 03050101.

Existing Site Conditions

The proposed work will widen 3.6 miles of NC Highway 16. Named streams of the area include Sixmile Creek (Site 3), a perennial stream, and the intermittent headwaters of Flat Branch (Site 6). The project will also cross two unnamed, intermittent tributaries to Sixmile Creek (Sites 2 and 4) and one unnamed, intermittent tributary of Flat Branch (Site 5). The proposed widening will encroach into the eastern shoreline of Varda Lake (Site 1), a large man-made pond near Weddington. Wetland types that will be impacted include palustrine forested, deciduous systems that are seasonally flooded (Sites 3, 4 and 5). These areas range in size from 0.05 to 0.70 acres and are found on the riparian margins of the streams. There is also a 0.37-acre area of palustrine scrub shrub wetland adjacent to Varda Lake within the project area (Site 1). Wetland vegetation includes red maple, sweet gum, green ash, black willow, willow oak and tag alder. The Federal Highway Administration (FHWA) and the NC Department of Transportation completed an Environmental Assessment (EA) of the proposed work, designated as TIP No. U-2510A on October 24, 2002 and a Finding of No Significant Impact (FONSI) on November 29, 2005. An Indirect and Cumulative Effects Assessment for TIP U-2510A was completed in September of 2005. These documents further detail existing site conditions in the project area.

Applicant's Stated Purpose

The purpose of the proposed work is to increase the traffic carrying capacity of the existing facility, increase safety by providing standard travel lanes and provide increased accessibility between Weddington and Charlotte.

Project Description

The applicant proposes to widen 3.6 miles of the existing two lane road to a four lane divided highway with a 17.5-foot wide raised median. The cross-sectional width of the new curb and gutter roadway will be 73.5 feet. Outside travel lanes will accommodate bicycle traffic. Approximately 40 feet of additional right of way will be required. In order to construct the new roadway, the applicant proposes to discharge dredged or fill material into a total of 1.28 acres of wetland, 458 linear feet of intermittent channel and 0.01 acres of open water pond at 6 locations. Wetland and pond impacts at Sites 1, 3, 4 and 5 will result from expansion of fill slopes to accommodate additional lanes and wider road shoulders. Stream channel impacts will result from culvert extension or replacement. Channel impacts range from 34 feet at Site 6 to 147 feet at Site 5. The existing four-barrel, box culvert at Sixmile Creek (Site 3) will be replaced with a bridge that spans the creek. The top and sides of the existing culvert will be removed with the bottom slab left in place to minimize disturbance to the stream. A small wetland (0.16 acres) on the upstream side of the culvert will be impacted by construction of a new bridge abutment. The referenced EA and FONSI provide additional information on project description and impacts. The applicant proposes to mitigate for wetland and stream channel impacts through payment to the NC Ecosystem Enhancement Program at a 1:1 ratio. Plans showing the proposed work are included with this public notice.

Other Required Authorizations

This notice and all applicable application materials are being forwarded to the appropriate State agencies for review. The Corps will generally not make a final permit decision until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act (PL 92-500). The receipt of the application and this public notice combined with appropriate application fee at the North Carolina Division of Water Quality central office in Raleigh will constitute initial receipt of an application for a 401 Water Quality Certification. A waiver will be deemed to occur if the NCDWQ fails to act on this request for certification within sixty days of the date of the receipt of this notice in the NCDWQ Central Office. Additional information regarding the Clean Water Act certification may be reviewed at the NCDWQ Central Office, 401 Oversight and Express Permits Unit, 2321 Crabtree Boulevard, Raleigh, North Carolina 27604-2260. All persons desiring to make comments regarding the application for certification under Section 401 of the Clean Water Act should do so in writing delivered to the North Carolina Division of Water Quality (NCDWQ), 2321 Crabtree Boulevard, Raleigh, North Carolina 27604-2260 Attention: Mr. John Hennessy by May 14, 2007.

Cultural Resources

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

Endangered Species

The Corps has reviewed the project area and examined all information provided by the applicant. The FHWA and the applicant have determined that the proposed work may effect but is not likely to adversely affect the federally endangered Carolina heelsplitter mussel. Consultation under Section 7 of the Endangered Species Act of 1973 between the FHWA and the US Fish and Wildlife Service is currently ongoing. The FHWA and the applicant have determined that the proposed project will have no effect on any other federally listed endangered or threatened species or their formally designated critical habitat.

Evaluation

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

navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the discharge of dredged or fill materials in waters of the United States, the evaluation of the impact of the activity on the public interest will include application of the Environmental Protection Agency's 404(b)(1) guidelines.

Commenting Information

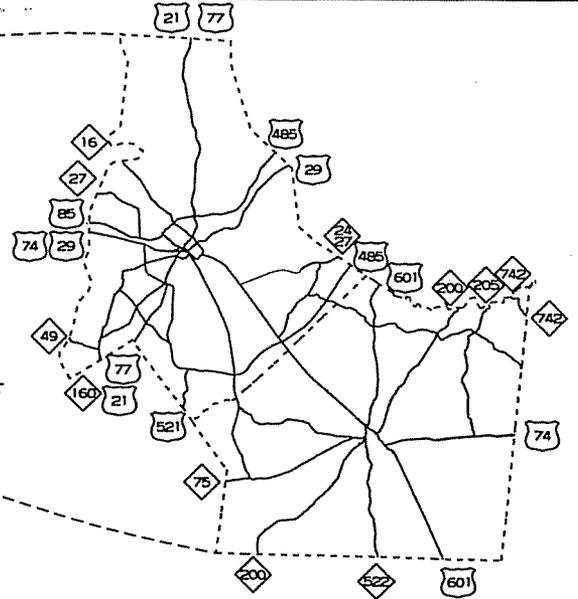
The Corps of Engineers is soliciting comments from the public; Federal, State and local agencies and officials, including any consolidate State Viewpoint or written position of the Governor; Indian Tribes and other interested parties in order to consider and evaluate the impacts of this proposed activity.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

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

Written comments pertinent to the proposed work, as outlined above, will be received by the Corps of Engineers, Wilmington District, until 5pm, May 14, 2007. Comments should be submitted to Mr. Steven Lund, US Army Corps of Engineers, Asheville Regulatory Field Office, 151 Patton Avenue, Room 208, Asheville, North Carolina 28801-5006, telephone (828) 271-7980, extension 223.



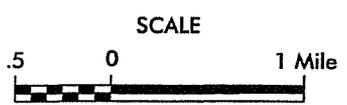
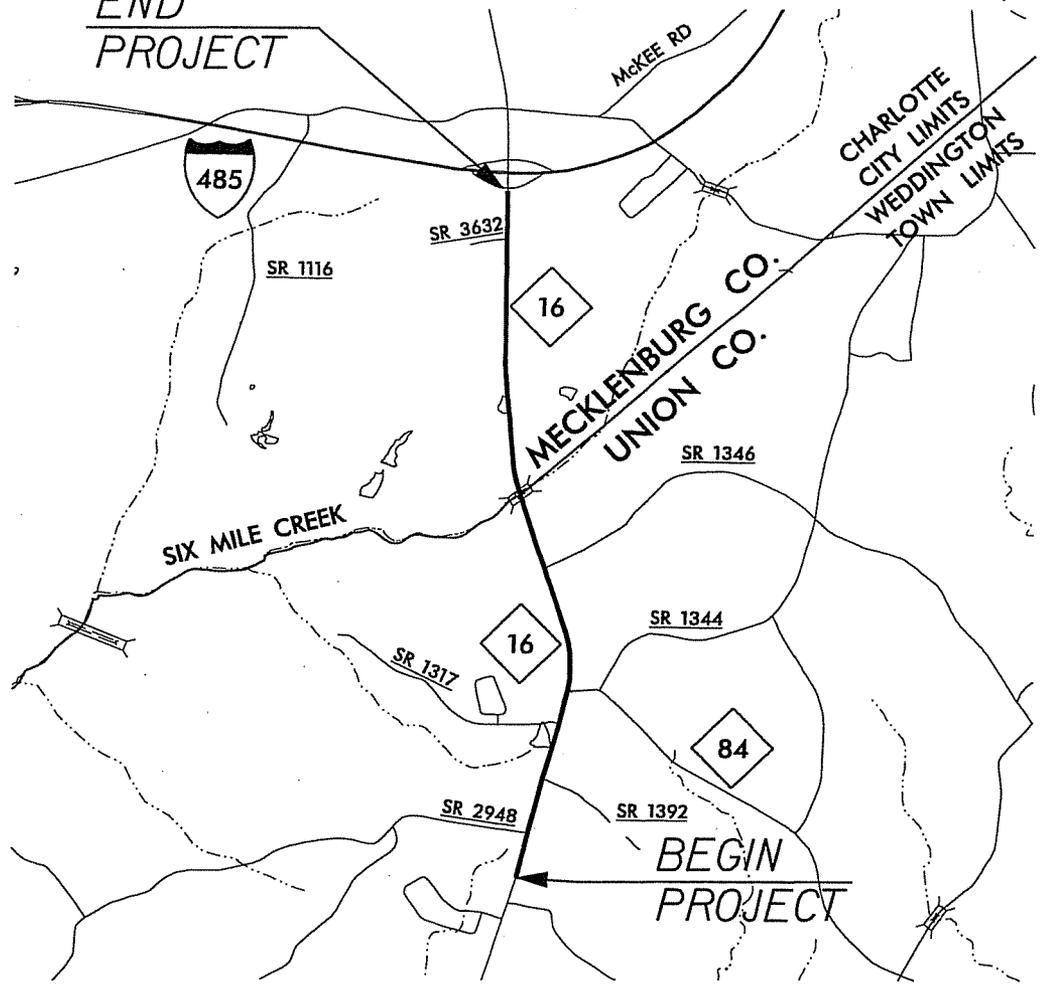
SEE INSET BELOW



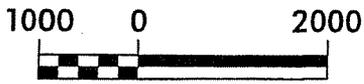
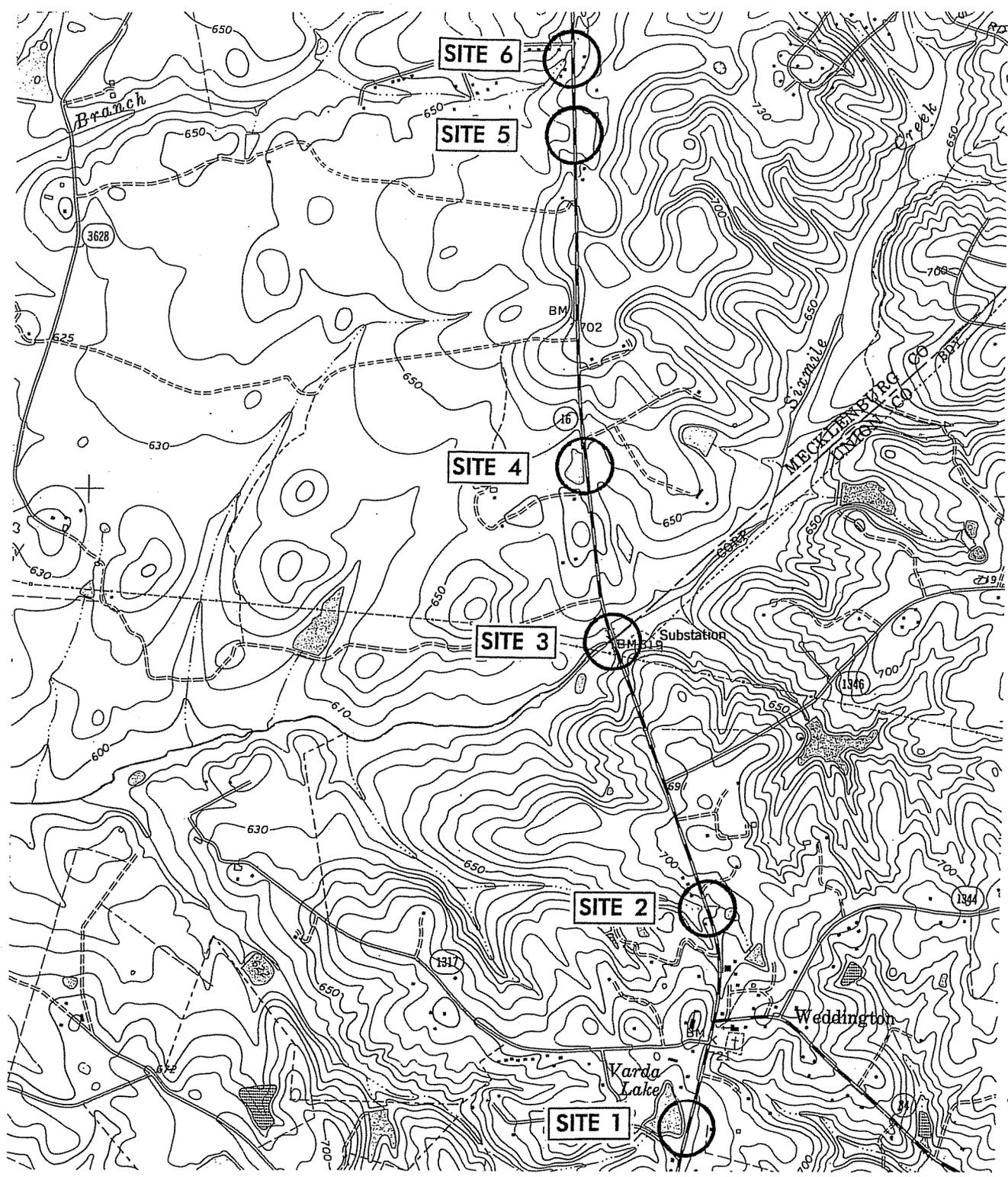
MECKLENBURG / UNION COUNTIES



END PROJECT



N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 MECKLENGURG / UNION COUNTY
 PROJECT: 34813.1.1 (U-2510A)
 NC 16 WIDENING
 SHEET 1 OF 23 10
 01 / 25 / 05



N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
MECKLEBURG/UNION COUNTY
PROJECT: 34813.1.1 (U-2510A)
NC 16 WIDENING
 SHEET 2 OF 23

01/25/05

REVISED 11/7/05

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS							
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)			
1	-L- 53+20 / 56+48	1 @ 24" RCP	0.3000			0.0700				0.0100				
2	-L- 85+58 / 86+08	1 @ 54" RCP							0.0200				162.0	
3	-L- 124+36 / 126+81 -L- 124+69 / 124+95	BRIDGE	0.0900			0.0700								
4	-L- 145+26 / 146+25 -L- 145+88 / 152+65	1 @ 36" RCP	0.4600		0.0100	0.2300			0.0100				115.0	
5	-L- 193+96 / 194+32 -L- 194+47 / 195+20	1 @ 72" RCP	0.0400			0.0100			0.0200				147.0	
6	-L- 203+57 / 203+68	1 @ 66" RCP											34.0	
TOTALS:			0.8900		0.0100	0.3800			0.0500	0.0100	0.0000		458.0	0.0

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
MECKLENBURG / UNION COUNTIES

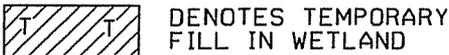
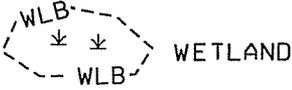
PROJECT 34813.1.1 (U-2510A)

NC 16 WIDENING

3 10
4 OF 22
SHEET

LEGEND

---WLB--- WETLAND BOUNDARY



— BZ — RIPARIAN BUFFER ZONE

← ← 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

— TDE — TEMP. DRAINAGE EASEMENT

— PDE — PERMANENT DRAINAGE EASEMENT

— EAB — EXIST. ENDANGERED ANIMAL BOUNDARY

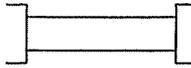
— EPB — EXIST. ENDANGERED PLANT BOUNDARY

— ∇ — WATER SURFACE

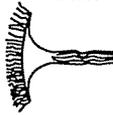
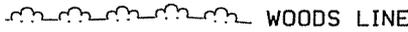
X X X
X X X LIVE STAKES

BOULDER

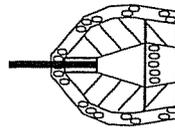
— — — COIR FIBER ROLLS



(DASHED LINES DENOTE EXISTING STRUCTURES)



ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE



**N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS**

MECKLENBURG/UNION COUNTY

PROJECT: 34813.1.1 (U-2510A)

NC 16 WIDENING

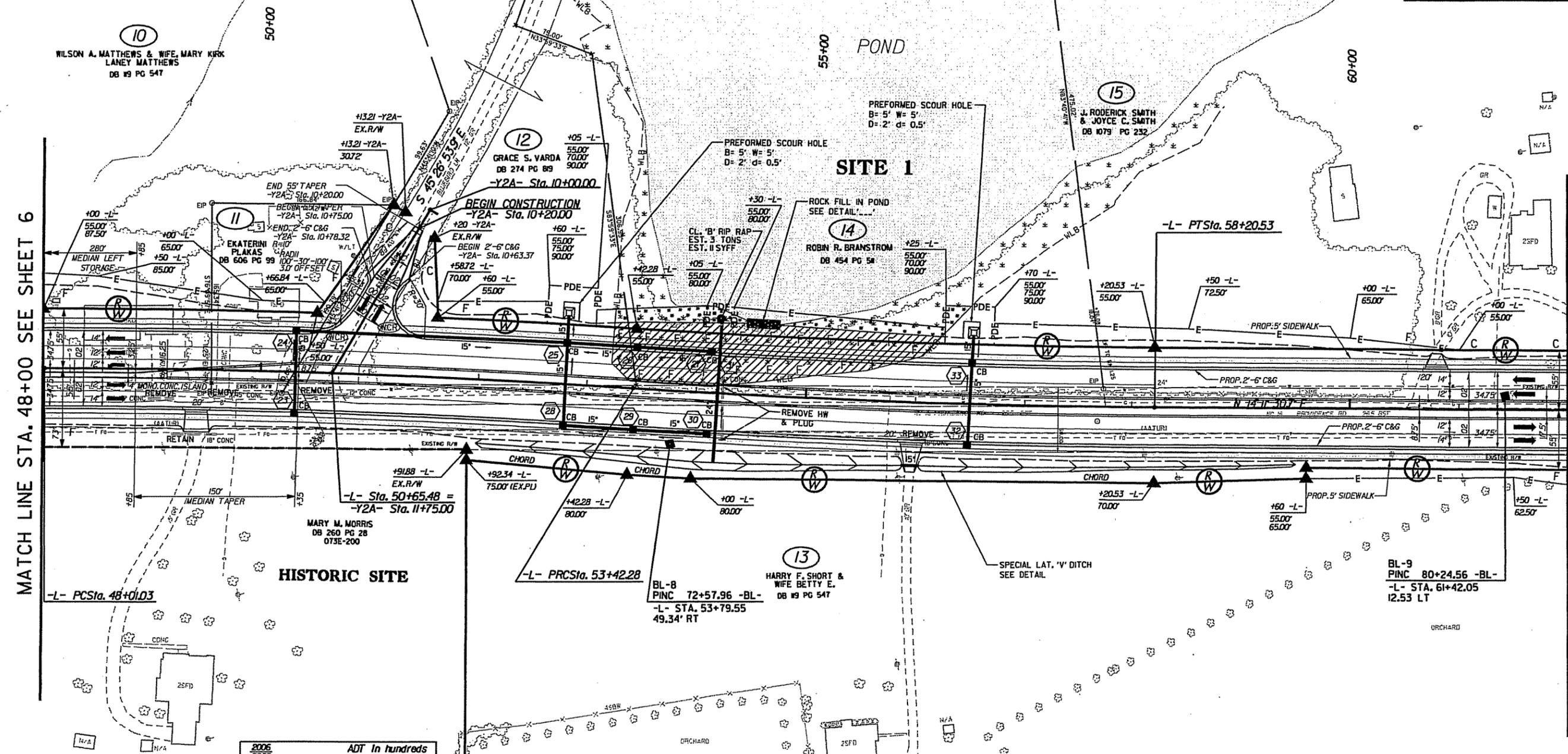
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SHEET 5 OF 23

01 / 25 / 05

REVISIONS

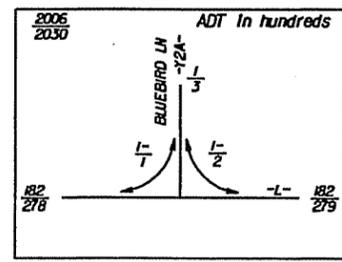
NC DEPT. OF TRANSP.
MECKLENBURG/UNION CO.
NC 16 WIDENING
U-2510A

PROJECT REFERENCE NO. U-2510A		SHEET NO. 7	
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PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
SHEET 5		OF 23	

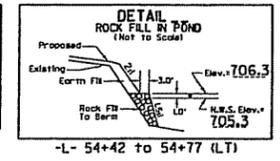
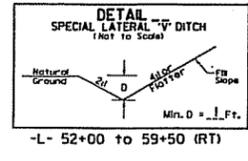


MATCH LINE STA. 48+00 SEE SHEET 6

MATCH LINE STA. 62+00 SEE SHEET 8



<p>PI Sta 50+71.76 Δ = 3° 52' 35.2" (RT) D = 0' 42' 58.3" L = 541.26' T = 270.73' R = 8,000.00' SE = NC</p>	<p>PI Sta 55+81.48 Δ = 3° 25' 30.5" (LT) D = 0' 42' 58.3" L = 478.24' T = 239.19' R = 8,000.00' SE = NC</p>
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Note: Special Sediment Control Fence from Sta. 53+25 to 56+50

- DENOTES FILL IN WETLANDS
- DENOTES FILL IN SURFACE WATER (POND)
- DENOTES MECHANIZED CLEARING

Rev. 5/26/05

SEE SHEET 23 FOR -L- PROFILE
SEE SHEET 29 FOR -Y2A- PROFILE

03.001.002/Roadway/Proj/U2510a_rdy_pst07

REVISIONS

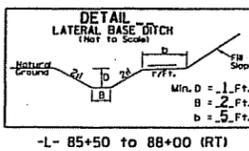
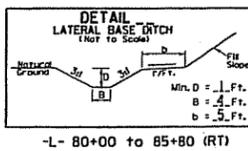
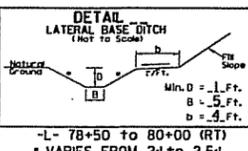
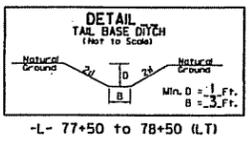
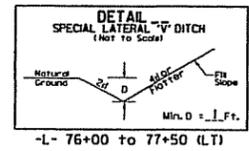
NC DEPT. OF TRANSP.
MECKLENBURG/UNION CO
NC 16 WIDENING
U-2510A

PROJECT REFERENCE NO. U-2510A		SHEET NO. 9
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		
34627 6 OF 23		10 OF 23

-L-
 PI Sta 77+97.48
 $\Delta = 33^{\circ} 01' 30.7''$ (LT)
 $D = 159' 46.9''$
 $L = 1654.26'$
 $T = 850.82'$
 $R = 2870.00'$
 $SE = 04$
 $DS = 55$ MPH

MATCH LINE STA. 75+00 SEE SHEET 8

MATCH LINE STA. 88+00 SEE SHEET 10



DENOTES FILL IN SURFACE WATER

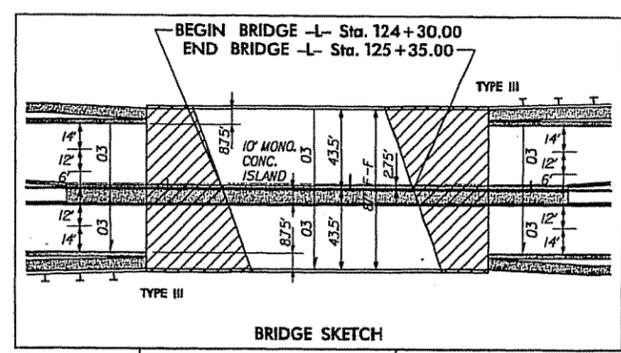
SEE SHEET 24 FOR -L- PROFILE

03.001.002/Roadway/Proj/U2510A.rdy.dwg

REVISIONS

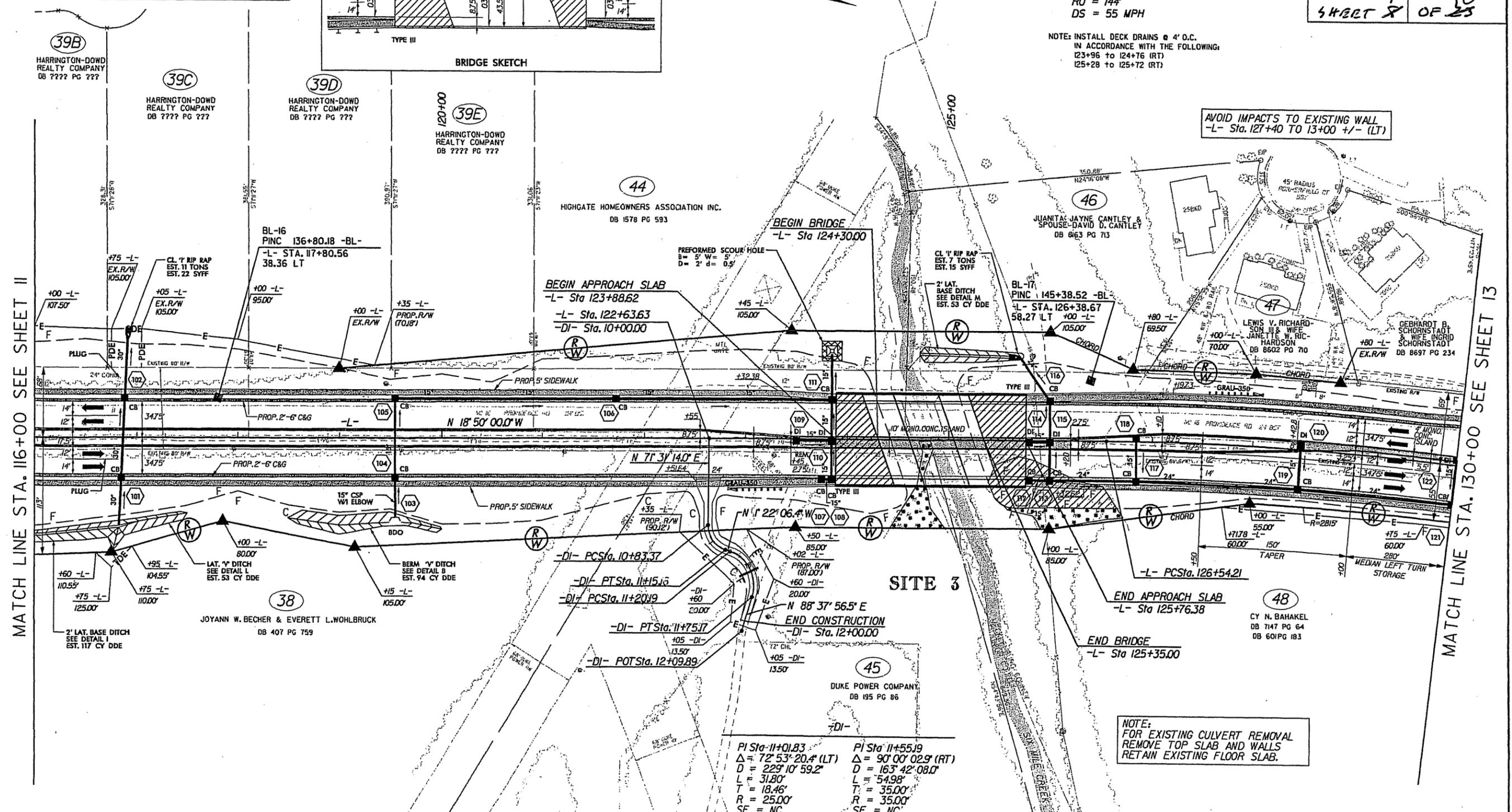
NC DEPT. OF TRANSP.
MECKLENBURG/UNION CO.
NC 16 WIDENING
U-2510A

PROJECT REFERENCE NO. U-2510A		SHEET NO. 12	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
7		OF 10	
SHEET 8 OF 25			



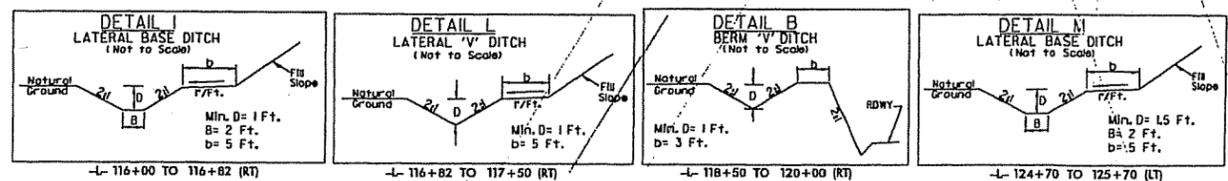
-L-
PI Sta 129+81.53
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D = 1'59'46.9"
L = 651.83'
T = 327.32'
R = 2870.00'
SE = 04
RO = 144'
DS = 55 MPH

NOTE: INSTALL DECK DRAINS @ 4' O.C. IN ACCORDANCE WITH THE FOLLOWING:
123+96 TO 124+76 (RT)
125+28 TO 125+72 (RT)



MATCH LINE STA. 116+00 SEE SHEET II

MATCH LINE STA. 130+00 SEE SHEET 13



DENOTES FILL IN WETLANDS
 DENOTES MECHANIZED CLEARING

SEE SHEET 25 & 26 FOR -L- PROFILE
SEE SHEET 30 FOR -DI- PROFILE

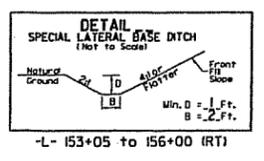
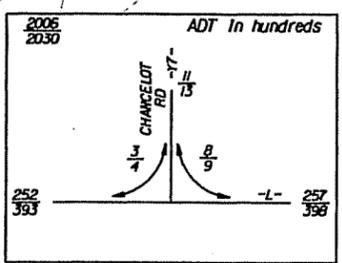
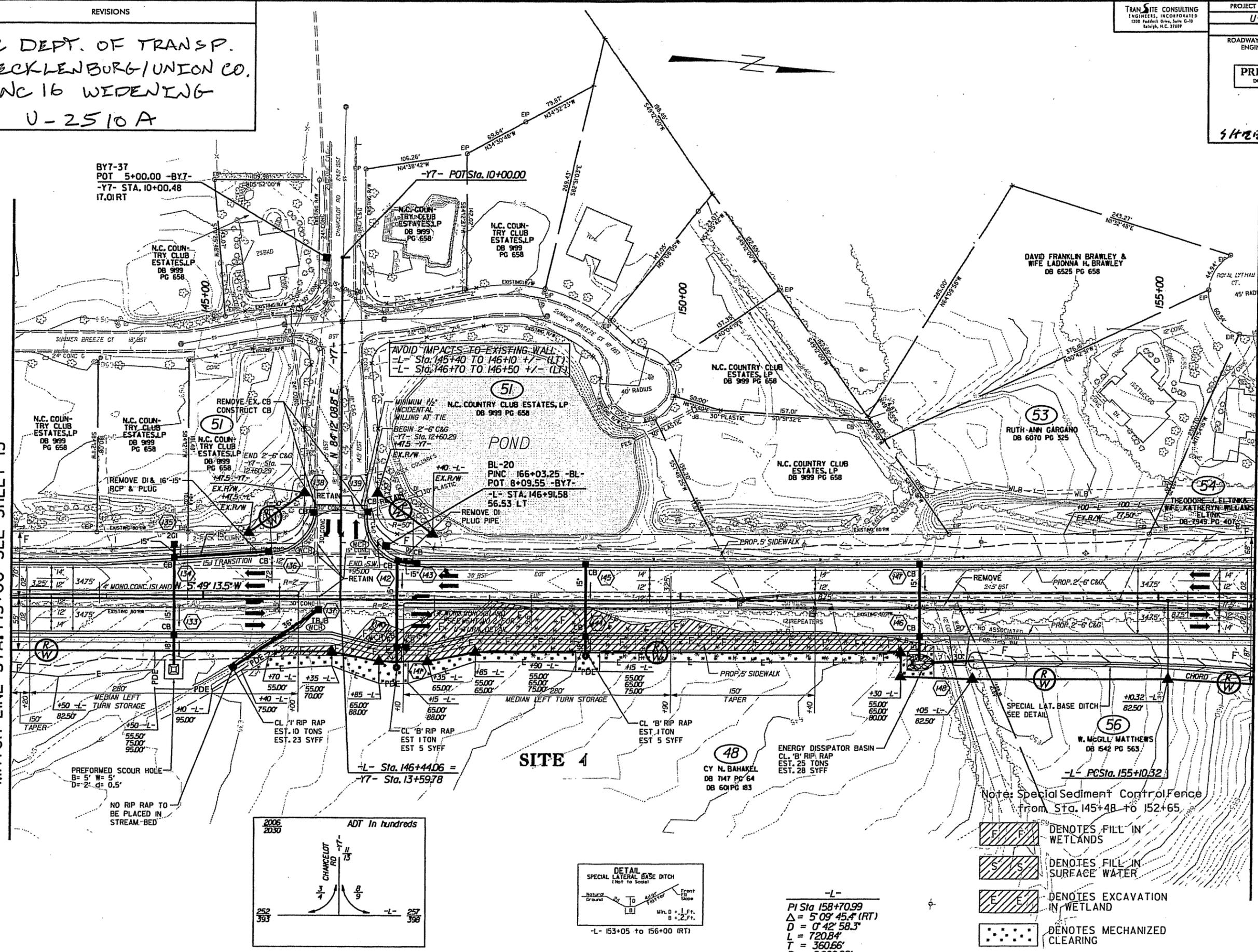
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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
8		10	
SHEET 9		OF 25	

REVISIONS

NC DEPT. OF TRANSP.
MECKLENBURG/UNION CO.
NC 16 WIDENING
U-2510A

MATCH LINE STA. 143+00 SEE SHEET 13

MATCH LINE STA. 156+00 SEE SHEET 15



-L-

PI Sta 158+70.99
 $\Delta = 5' 09" 45.4" (RT)$
 $D = 0' 42" 58.3"$
 $L = 720.84'$
 $T = 360.66'$
 $R = 8,000.00'$
 $SE = NC$
 $DS = 50 MPH$

Note: Special Sediment Control Fence from Sta. 145+48 to 152+65.

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

Rev. 5/26/05

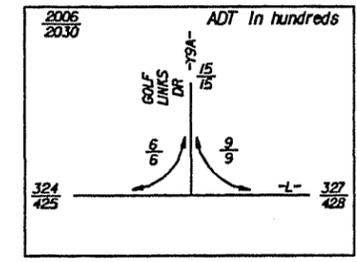
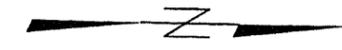
103.001.002/Roadway/Proj/u2510a_rdy_pah14

NC DEPT. OF TRANSP.
MECKLENBURG/UNION CO.
NC 16 WEDENING
U-2510 A

REVISIONS

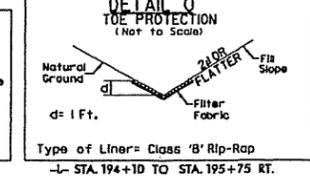
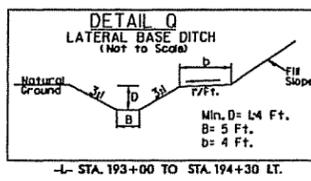
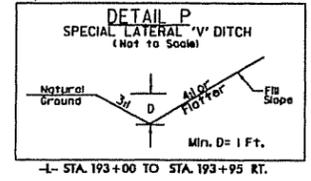
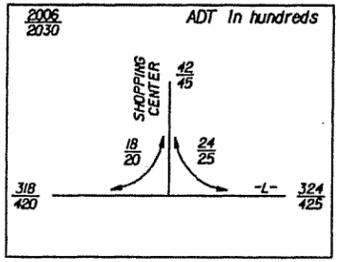
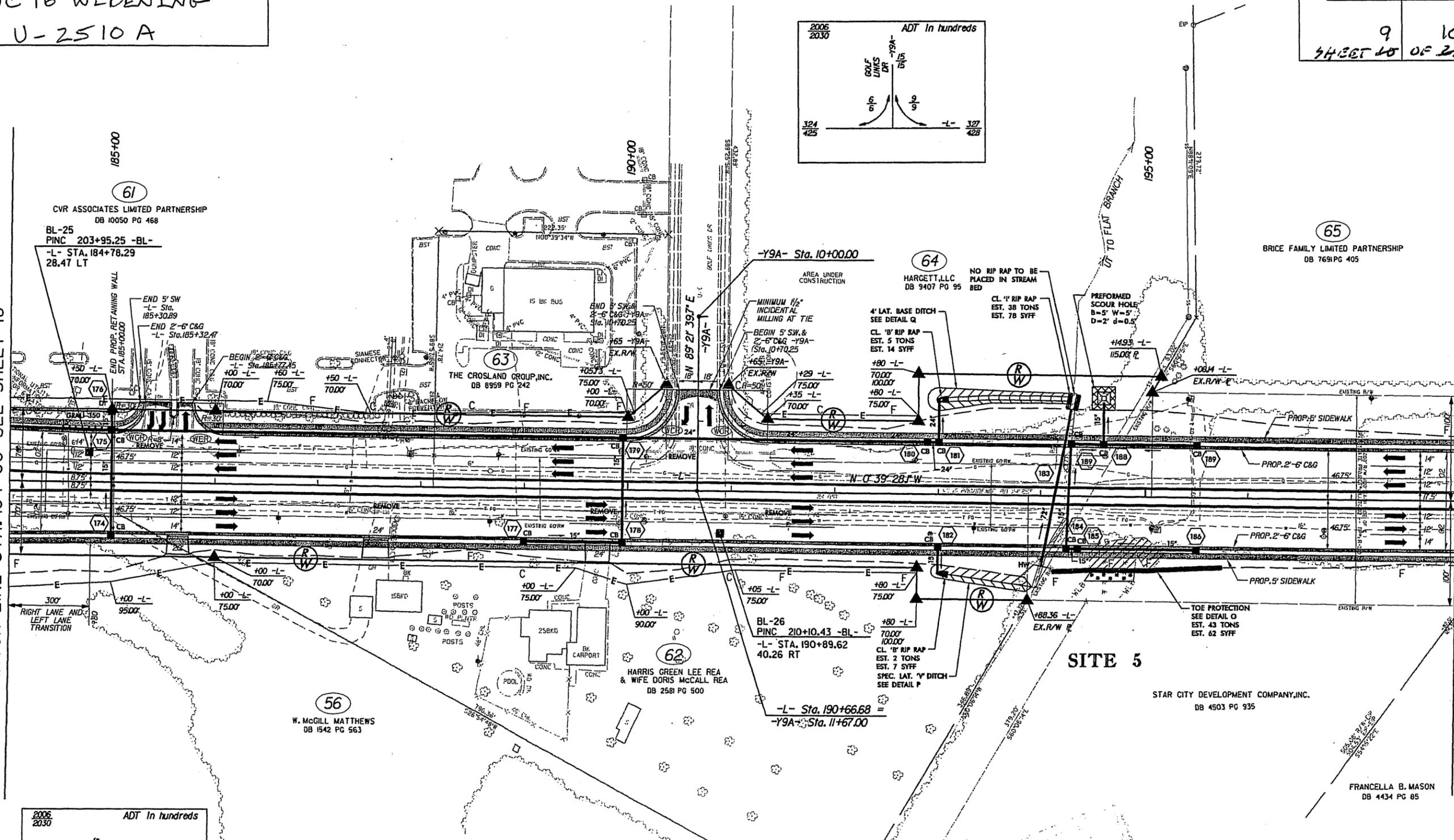
TRANSITE CONSULTING
ENGINEERS, INCORPORATED
1200 Piedmont Drive, Suite G-10
Raleigh, N.C. 27607

PROJECT REFERENCE NO.	U-2510A	SHEET NO.	17
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
	9	10	
	SHEET 10 OF 23		



MATCH LINE STA. 184+00 SEE SHEET 16

MATCH LINE STA. 198+00 SEE SHEET 18



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

SEE SHEET 28 FOR -L- PROFILE

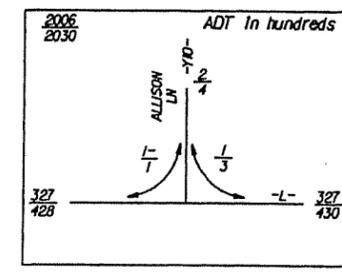
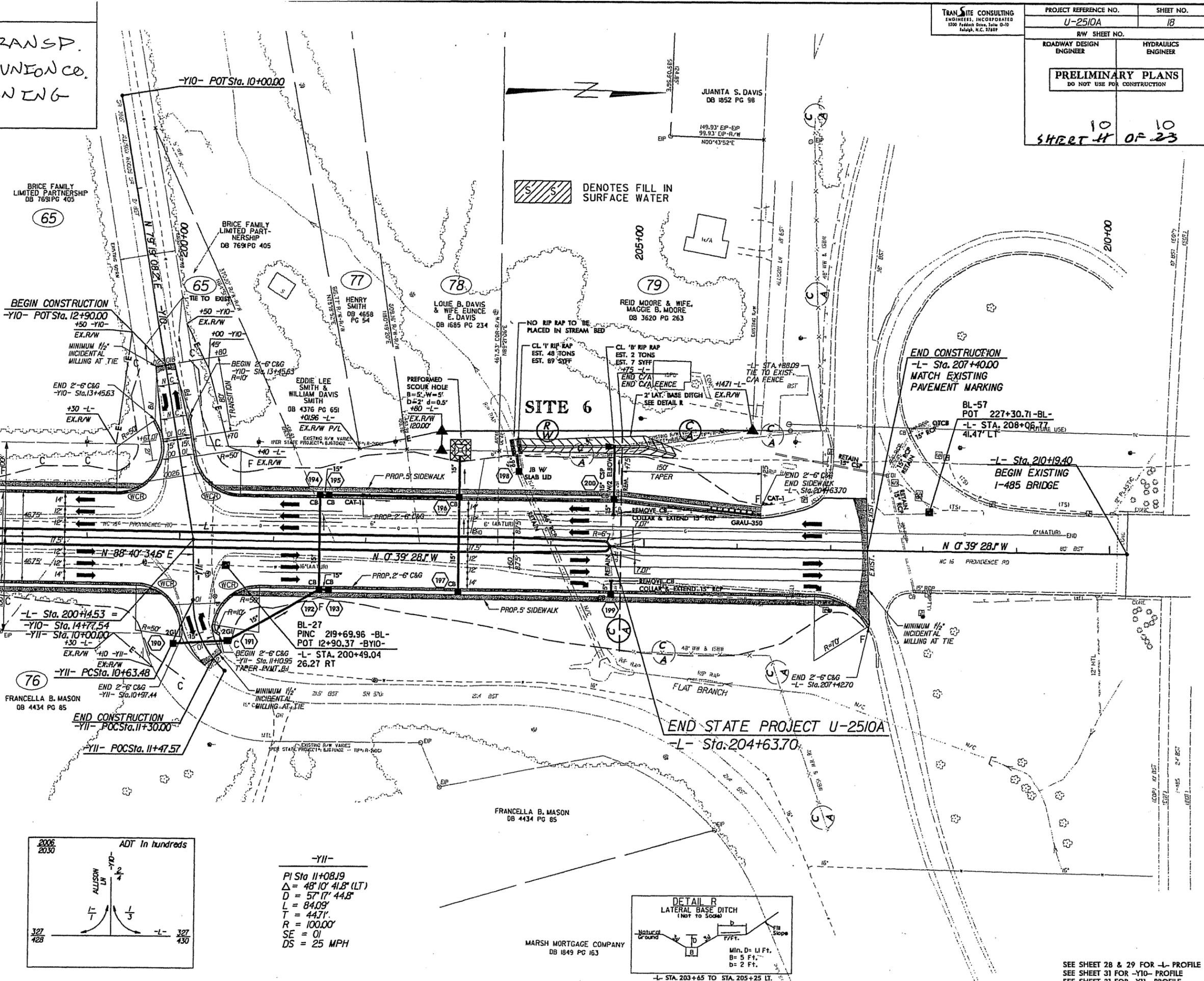
103.001.002/Roadway/Pr-j/U2510a_r-dy.psh17

REVISIONS

NC DEPT. OF TRANSP.
MECKLENBURG/UNION CO.
NC 16 WIDENING
U-2510A

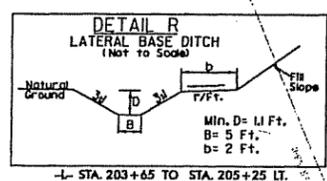
TRAN SITE CONSULTING ENGINEERS, INCORPORATED 1500 Federal Drive, Suite G-10 Raleigh, N.C. 27609	PROJECT REFERENCE NO.	SHEET NO.
	U-2510A	18
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		
10		10
SHEET 4		OF 23

MATCH LINE STA. 198+00 SEE SHEET 17



-Y11-

PI Sta 11+08.19
 $\Delta = 45^\circ 10' 41.8''$ (LT)
 $D = 57' 17.448''$
 $L = 84.09'$
 $T = 44.71'$
 $R = 100.00'$
 $SE = 0'$
 $DS = 25$ MPH



SEE SHEET 28 & 29 FOR -L- PROFILE
 SEE SHEET 31 FOR -Y10- PROFILE
 SEE SHEET 31 FOR -Y11- PROFILE

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