



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

September 16, 2005

U. S. Army Corps of Engineers
Regulatory Field Office
Post Office Box 1000
Washington, NC 27889-1000

Mr. Bill Biddlecome
NCDOT Coordinator

Subject: **Application for Individual Section 404 and 401 permits for TIP U-3823.** The proposed widening of Airport Boulevard (SR 1158) from NC 42 West to US 264 Alternate in Wilson, Wilson County; NCDOT Division 4. Federal Project No. STP-1158(2), State Project No. 8.2341801, WBS Element 34981.1.1.

Dear Sir:

The NCDOT proposes to widen Airport Boulevard (SR 1158) from NC 42 West to US 264 Alternate. The proposed project will consist of widening the existing two lane facility to a four lane and five lane facility. The total length is approximately 2 miles and will require approximately 125 feet of right of way. This application package consists of the cover letter, ENG Form 4345, permit (hydraulic) drawings, half size roadway plan sheets, and EEP Mitigation Acceptance Letter.

For funding purposes, this project has been divided into two sections, separated at Station 100. At this time, U-3823B is scheduled to let in December of 2005 and U-3823A is scheduled to let September 19, 2006. This application addresses both sections of the project. All previous merger meetings under the U-3823 heading have addressed both A and B sections.

Purpose and Need: As identified in the EA, the primary purpose of this action is to improve capacity and highway safety along this section of Airport Boulevard (SR 1158).

Summary of Impacts: Impacts on jurisdictional areas of the proposed project consist of a total of 0.904 acre of permanent wetland impacts, 0.145 acre of temporary wetland impacts, 89 linear feet of permanent stream impact, and 0.066 acre of temporary stream impact, and 40,303 square feet of Neuse River Buffer impact.

Summary of Mitigation: The project has been designed to avoid and minimize impacts to jurisdictional areas throughout the NEPA and design processes. Compensatory mitigation for jurisdictional impacts will be provided by the North Carolina Ecosystem Enhancement Program.

NEPA DOCUMENT STATUS

The United States Department of Transportation Federal Highway Administration (FEWA) and the North Carolina Department of Transportation (NCDOT) approve the previous administrative actions of this project including the *Environmental Assessment (EA)* on August 28, 2002 and the *Finding of No Significant Impact (FONSI)* on December 31, 2003. Copies of the EA and FONSI have been provided to regulatory review agencies involved in the approval process. Additional copies will be provided upon request.

MERGER PROCESS SUMMARY

Purpose and Need (Concurrence Point 1, signed 12/12/2001): The purpose of this action is to improve capacity and highway safety along this section of Airport Boulevard (SR 1158).

Alternatives (Concurrence Point 2 and 2A were signed 5/15/2002): The following alternatives were agreed to carry forward: A five-lane facility (four lanes at Bloomery Swamp), widened asymmetrically, with:

- A crossing at Bloomery Swamp using a culvert with equalizer pipes and curb and gutter design.
- A crossing at Bloomery Swamp using a culvert with equalizer pipes and shoulder section.
- A crossing at Bloomery Swamp with a 200 foot bridge, and curb and gutter design.
- A crossing at Bloomery Swamp with a 200 foot bridge, and a shoulder section.
- A crossing at Bloomery Swamp with a 475 foot bridge, and curb and gutter design.
- A crossing at Bloomery Swamp with a 475 foot bridge, and a shoulder section.

Least Environmentally Damaging Practicable Alternative – LEDPA (Concurrence Point 3, signed 8/14/2003): The LEDPA is an asymmetrical, best-fit widening of Airport Road with a 5-lane facility using curb and gutter. This alternative also replaces the existing box culvert at Bloomery Swamp with a bridge.

Avoidance and minimization (Concurrence Point 4A signed 1/20/2004): The Merger Process Team concurred with the following avoidance and minimization measures:

- A best-fit alignment was used to minimize wetland impacts. In the vicinity of Bloomery Swamp, widening will occur on the south side of the existing roadway, as wetlands on the northern side of the road were determined to be of higher quality.
- In the vicinity of Bloomery Swamp, the roadway typical will be reduced to a four-lane section in order to minimize wetlands impacts.
- Hazardous spill catch basins will be installed at both Bloomery Swamp and an Unnamed tributary to Bloomery Swamp in order to minimize the effects of any illicit discharges from the roadway.
- 2:1 slopes will also be included in the design in the wetland area.

Concurrence points 4B & C were held on 2/18/04.

INDEPENDENT UTILITY

The subject project is in compliance with 23 CFR Part 771.111(f) which lists the Federal Highway Administration (FHWA) characteristics of independent utility of a project:

- (1) The project connects logical termini and is of sufficient length to address environmental matters on a broad scope,
- (2) The project is usable and a reasonable expenditure, even if no additional transportation improvements are made in the area;
- (3) The project does not restrict consideration of alternatives for other reasonably foreseeable transportation improvements.

RESOURCE STATUS

Wetland delineations: Potential wetland communities were investigated pursuant to the 1987 Corps of Engineers Wetland Delineation Manual. Each impact is described in detail below. Site and station numbers correspond with the permit (hydraulic) drawings included in this application. Wetlands in the area are extensive bottomland hardwood riverine systems. They can also be described as forested, broad-leaved deciduous, but with an intermittently flooded hydrologic regime. Soils have a sandy loam texture with a matrix of 10 YR 5/1 and abundant mottles of 10 YR 5/6. Standing water is several inches deep. Vegetation includes black willow, red maple, river birch and sweet gum with an understudy of tear thumb, softstem rush, lizard's tail and honeysuckle vines.

Impacts to Waters of the United States

Site 1 (44+95-45+55-L-)

A 24" and 36" concrete pipe carrying an unnamed perennial tributary to Bloomery Swamp, will be replaced with two 60" reinforced concrete pipes. This proposed activity will result in 82 feet of permanent stream impact, and 0.057 acre of wetland impact to accommodate for the wider roadway and longer culvert. Temporarily, 0.017 acre of wetland will be impacted for the installation of the reinforced concrete pipes. This proposed activity will also impact 19,174 square feet of Neuse River Riparian Buffer (11,533 square feet of Zone 1, and 7,641 square feet of Zone 2) which is allowable with mitigation.

Site 2 (77+25-91+55 -L-)

A 12'x 9' pentuple barrel culvert, carrying Bloomery Swamp, will be replaced with a 3-span, 205-foot cored slab bridge. This proposed activity will result in 0.847 acre of permanent wetland impact. This amount includes 0.235 acre of impact for the relocation of a sewer utility. There will be 0.118 acre of temporary fill in wetland and 0.066 acre of temporary surface water impact in the form of a temporary causeway used to construct the new bridge. This proposed activity will also impact 12,900 square feet of Neuse River Riparian Buffer (7,871 square feet of Zone 1, and 5,029 square feet of Zone 2) which is allowable.

Site 3 (114+90-115.20 -L-)

Site 3 is a small wetland that will not be impacted by the project, but is shown on page 12 of the permit (hydraulic) drawings.

Site 4 (126+79 -L-)

An 18" reinforced concrete pipe, carrying an unnamed perennial tributary to Bloomery Swamp, will be extended with the same type of pipe. This proposed activity will result in 7' of permanent stream impact and 0.010 acre of temporary fill in wetlands used to divert the water necessary for the installation of the pipe extension. This proposed activity will also impact 8,229 square feet of Neuse River Riparian Buffer (4,968 square feet of Zone 1, and 8,229 square feet of Zone 2) which is allowable.

PROTECTED SPECIES

Plants and animals with Federal classification of Endangered (E) or Threatened (T) are protected under provisions of Section 7 and Section 9 of the Endangered Species Act of 1973, as amended. As of January 29, 2003, the U.S. Fish and Wildlife Service (FWS) lists three federally protected species for Wilson County (Table 1). Concurrence has been received from the USFWS in a letter dated December 23, 2003 concurring with the No Effect biological conclusion for the red-cockaded woodpecker and the May Effect, Not Likely to Adversely Affect for the Michaux's sumac. A email dated September 7, 2005, from Mr. Gary Jordan indicated concurrence with a No Effect biological conclusion for the Dwarf wedgemussel.

Table 1. Federally Protected Species for Wilson County

| Common Name | Scientific Name | Status | Biological Conclusion |
|-------------------------|------------------------------|------------|--|
| Dwarf wedgemussel | <i>Alasmidonta heterodon</i> | Endangered | NO EFFECT |
| Red-cockaded woodpecker | <i>Picoides borealis</i> | Endangered | NO EFFECT |
| Michaux's sumac | <i>Rhus michauxii</i> | Endangered | May Effect, Not Likely to Adversely Affect |

Endangered A taxon "in danger of extinction throughout all or a significant portion of its range."

INDIRECT CUMULATIVE IMPACT ANALYSIS

Existing rules for the 401 Water Quality Certification Program (15A NCAC 2H .0506(b)(4) require that the DWQ determine that a project "does not result in cumulative impacts, based on past or reasonably anticipated future impacts, that cause or will cause a violation of downstream water quality standards."

An Indirect and Cumulative Effects Report (ICE) was completed for this project in March of 2005. A review of this project revealed that conditions within the growth impact study area were found to be conducive to growth. However, the potential for project-induced growth and transitions to higher intensity land uses are modest. Copies of this document are available upon request.

There are no impaired (303d) streams in the project area.

CULTURAL RESOURCES

Archaeology & Historical Structures: Archaeological resource survey work was conducted to determine if significant archaeological resources might be disturbed. In a letter dated August 27, 2001, five sites included in the archaeological survey are not eligible for the National Register. This document is found in Appendix C in the EA.

In a letter dated August 27, 2001, also found in Appendix C of the EA, SHPO concluded that there are no historic resources that would be affected by the proposed project.

FEMA COMPLIANCE

The project is located within the Neuse River Basin and corresponding nutrient sensitive water rules will apply. This crossing of Bloomery Swamp has a drainage area of 20.7 square miles and is located below headwaters. Wilson County and the City of Wilson are currently participating in the National Flood Insurance Regulatory Program. The proposed crossing of Bloomery Swamp is located in a designated flood hazard zone where a detail study has been performed. According to the above

mentioned detailed study and the hydraulic analysis performed for the culvert in 1990 by the NCDOT Hydraulics Unit, the existing culvert passes the 100-year flood with no overtopping. It is not anticipated that the proposed project should have any adverse impacts on the existing floodplain.

WILD AND SCENIC RIVER SYSTEM

The project will not impact any designated Wild and Scenic Rivers or any rivers included in the list of study rivers (Public Law 90-542, as amended).

MITIGATION OPTIONS

The Corps of Engineers has adopted, through the Council on Environmental Quality (CEQ), a wetland mitigation policy that embraces the concept of “no net loss of wetlands” and sequencing. The purpose of this policy is to restore and maintain the chemical, biological, and physical integrity of the Waters of the United States. Mitigation of wetland and surface water impacts has been defined by the CEQ to include: avoiding impacts, minimizing impacts, rectifying impacts, reducing impacts over time and compensating for impacts (40 CFR 1508.20). Executive Order 11990 (Protection of Wetlands) and Department of Transportation Order 5660.1A (Preservation of the Nations Wetlands), emphasize protection of the functions and values provided by wetlands. These directives require that new construction in wetlands be avoided as much as possible and that all-practicable measures are taken to minimize or mitigate impacts to wetlands.

Avoidance and Minimization: This project has been designed using asymmetrical widening. Using this method, the department has avoided impacting wetlands and reduced impacts to wetlands to the greatest extent practicable. Other specific examples of avoidance and minimization measures include:

- The removal of a culvert carrying Bloomery Swamp and replacing the structure with a 205-foot bridge.
- The Bloomery Swamp stream crossing is within 1.1 miles of a critical water supply intake area (Classified WS-IV NSW). Therefore, according to guidelines developed by NCDOT and the Division of Water Quality, hazardous spill retention basins will be installed at the crossings of Bloomery Swamp and unnamed tributary to Bloomery Swamp.
- Due to the presence of high quality wetlands at Bloomery Swamp, Design Standards in Sensitive Watersheds .0024 NCAC Title 15A provisions have been included in the design.
- The typical section over Bloomery Swamp will be reduced to a four-lane cross-section in order to minimize wetland impacts.

Compensation: The primary emphasis of the compensatory mitigation is to reestablish a condition that would have existed if the project were not built. As previously stated, mitigation is limited to reasonable expenditures and practicable considerations related to highway operation. Mitigation is generally accomplished through a combination of methods designed to replace wetland functions and values lost as a result of construction of the project. These methods consist of creation of new wetlands from uplands, borrow pits, and other non-wetland areas; restoration of wetlands; and enhancement of existing wetlands. Where such options may not be available, or when existing wetlands and wetland-surface water complexes are considered to be important resources worthy of preservation, consideration is given to preservation as at least one component of a compensatory mitigation proposal.

FHWA Step Down Compliance

All compensatory mitigation must be in compliance with 23 CFR Part 777.9, "Mitigation of Impacts" that describes the actions that should be followed to qualify for Federal-aid highway funding. This process is known as the FHWA "Step Down" procedures:

1. Consideration must be given to mitigation within the right-of-way and should include the enhancement of existing wetlands and the creation of new wetlands in the highway median, borrow pit areas, interchange areas and along the roadside.
2. Where mitigation within the right-of-way does not fully offset wetland losses, compensatory mitigation may be conducted outside the right-of-way including enhancement, creation, and preservation.

Based upon the agreements stipulated in the "Memorandum of Agreement Among the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U.S. Army Corps of Engineers, Wilmington District" (MOA), it is understood that the North Carolina Department of Environment and Natural Resources, Ecosystem Enhancement Program (EEP), will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for NCDOT projects. The offsetting mitigation will derive from an inventory of assets already in existence within the same 8-digit cataloguing unit. The Department has avoided and minimized impacts to jurisdictional resources to the greatest extent possible as described above. The remaining, unavoidable impacts will be offset by compensatory mitigation provided by the EEP. A copy of this acceptance by the EEP is included in this application package.

REGULATORY APPROVALS

Application is hereby made for a Department of the Army for a Section 404 Individual Permit, a Section 401 Individual Water Quality Certification, and a Neuse River Buffer Certification, for the above described activities. In compliance with Section 143-215.3D(e) of the NCAC, we will provide \$475.00 to act as payment for processing the Section 401 permit application previously noted in this application (debit WBS element 34981.1.1). We are providing seven copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality.

We also anticipate that comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the Corps of Engineers. By copy of this letter and attachment, NCDOT hereby requests that NCWRC review and forward their comments to the Corps of Engineers.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Mr. Michael Turchy at maturchy@dot.state.nc.us or (919) 715-1468. A copy of this application will also be posted at <http://www.doh.dot.state.nc.us/preconstruct/pe/>.

Sincerely,



Gregory J. Thorpe, Ph.D., Environmental Management Director
Project Development and Environmental Analysis Branch

Cc: W/attachment

Mr. John Hennessy, NCDWQ (7 Copies)
Mr. Travis Wilson, NCWRC
Ms. Becky Fox, USEPA – Whittier, NC
Mr. Ronald Mikulak, USEPA – Atlanta, GA
Mr. Clarence W. Coleman, P.E., FHWA
Mr. Gary Jordan, USFWS
Mr. Ron Sechler, NMFS
Mr. Michael Street, NCDMF
Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. Richard E. Greene, PE, Div. 4 Engineer
Mr. Jamie Shern, Div. 4 Environmental Officer

W/o attachment

Mr. Scott McLendon, USACE, Wilmington
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP,
Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Ms. Beth Harmon, EEP
Mr. Todd Jones, NCDOT External Audit Branch
Ms. Beth Smyre, PDEA
Mr. Carl Goode, PE, Human Environment Unit

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
(33 CFR 325)

OMB APPROVAL NO. 0710-003
Expires December 31, 2004

Public reporting burden for this collection of information is estimated to average 10 hours per response, although the majority of applications should require 5 hours or less. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003), Washington, DC 20503. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authority: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413, Section 103. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

| | | | |
|--------------------|----------------------|------------------|-------------------------------|
| 1. APPLICATION NO. | 2. FIELD OFFICE CODE | 3. DATE RECEIVED | 4. DATE APPLICATION COMPLETED |
|--------------------|----------------------|------------------|-------------------------------|

(ITEMS BELOW TO BE FILLED BY APPLICANT)

| | |
|--|---|
| 5. APPLICANT'S NAME North Carolina Department of Transportation Project Development & Environmental Analysis | 8. AUTHORIZED AGENT'S NAME AND TITLE (an agent is not required) |
| 6. APPLICANT'S ADDRESS 1548 Mail Service Center Raleigh, NC 27699-1548 | 9. AGENT'S ADDRESS |
| 7. APPLICANT'S PHONE NOS. W/AREA CODE a. Residence b. Business 919-733-3141 | 10. AGENT'S PHONE NOS. W/AREA CODE a. Residence b. Business |

11. STATEMENT OF AUTHORIZATION

I hereby authorize, _____ to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

APPLICANT'S SIGNATURE

DATE

NAME, LOCATION, AND DESCRIPTION OR PROJECT OR ACTIVITY

| | |
|---|--|
| 12. PROJECT NAME OR TITLE (see instructions) U-3826 | 14. PROJECT STREET ADDRESS (if applicable) |
| 13. NAME OF WATERBODY, IF KNOWN (if applicable) Bloomery Swamp and unnamed tributaries to Bloomery Swamp | |
| 15. LOCATION OF PROJECT Wilson NC COUNTY STATE | |

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) Section, Township, Range, Lat/Lon, and/or Accessors's Parcel Number, for example.

17. DIRECTIONS TO THE SITE
Please see attached vicinity map and cover letter.

18. Nature of Activity (Description of project, include all features)

Widening a current Airport Road (SR 1158) from a two lane, to a 5 lane facility on existing location using asymmetrical widening.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

To increase capacity of Airport Road.

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Impacts will result from widening the shoulders, raising the grade of the highway, and lengthening/ replacing hydraulic structures.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

See attached cover letter and permit drawings.

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

See attached cover letter and permit drawings.

23. Is Any Portion of the Work Already Complete? Yes ___ No X IF YES, DESCRIBE THE COMPLETED WORK

24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

Please see adjacent property landowners page attached to the permit drawing package.

25. List of Other Certifications or Approvals/Denials Received from other Federal, State, or Local Agencies for Work Described in This Application.

| AGENCY | TYPE APPROVAL | IDENTIFICATION NUMBER | DATE APPLIED | DATE APPROVED | DATE DENIED |
|--------|---------------|-----------------------|--------------|---------------|-------------|
|--------|---------------|-----------------------|--------------|---------------|-------------|

N/A

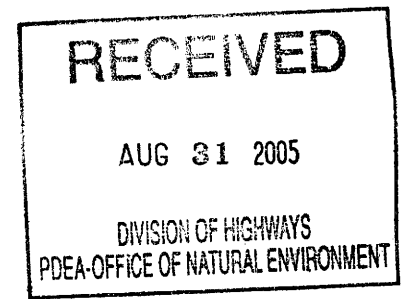
* Would include but is not restricted to zoning, building, and flood plain permits

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

| | | | |
|--|---|--------------------|-------|
|  |  | _____ | _____ |
| SIGNATURE OF APPLICANT | DATE | SIGNATURE OF AGENT | DATE |

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.



August 29, 2005

Mr. Gregory J. Thorpe, Ph.D.
Environmental Management Director
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

U-3823, SR 1158 (Airport Boulevard) Widening, Wilson County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the riverine wetland and stream mitigation for the subject project. Based on the information supplied by you in a letter dated August 26, 2005, the impacts are located in CU 03020203 of the Neuse River Basin in the Northern Inner Coastal Plain (NICP) Eco-Region, and are as follows:

| | |
|-------------------|------------|
| Riverine Wetland: | 0.903 acre |
| Stream Impacts: | 89 feet |

Also, as indicated in your letter, this project will impact buffers located in CU 03020203 of the Neuse River Basin. The total buffer impacts are 11,533 square feet in Zone 1 and 7,641 square feet in Zone 2. The NCDOT estimated buffer impacts in the 7-year Impact Projection Database submitted to EEP in May 2005. The buffer mitigation required for the NCDOT's impact projections was incorporated into EEP's biennial budget that was approved in June 2005 by the NCDOT. However, EEP intends to continue managing all of the NCDOT's buffer mitigation requests and approvals through the In-Lieu Fee (ILF) Program's Buffer Fund. Any buffer impact associated with projects located in the Neuse and Tar-Pamlico River Basins, and portions of the Cape Fear and Catawba River Basins are automatic acceptances by the EEP, per the agreement with the NCDWQ.

The NCDOT will be responsible to ensure that the appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWQ's Buffer Certification, the NCDOT will provide the EEP a copy of the Certification along with a letter verifying the buffer impact/mitigation amounts and requesting a fund transfer to provide the required compensation. The EEP will transfer funds from the MOA Account (Fund 2984) into the ILF Buffer Mitigation Fund (Fund 2982).

Restoring... Enhancing... Protecting Our State

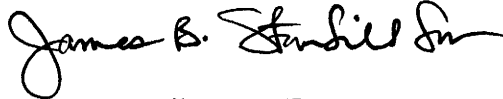


North Carolina Ecosystem Enhancement Program, 1652 Mail Service Center, Raleigh, NC 27699-1652 / 919-715-0476 / www.nceep.net

As stated in your letter, the subject project is listed in Exhibit 2 of the Memorandum of Agreement among the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U. S. Army Corps of Engineers, Wilmington District dated July 22, 2003. The compensatory riverine wetland and stream mitigation for the subject project will be provided in accordance with this agreement.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,

A handwritten signature in black ink, appearing to read "James B. Stindell Jr.", is written over the typed name of William D. Gilmore, P.E.

William D. Gilmore, P.E.
EEP Director

cc: Mr. Bill Biddlecome, USACE-Washington
Mr. John Hennessy, Division of Water Quality, Wetlands/401 Unit
File: U-3823



August 29, 2005

Mr. Bill Biddlecome
U. S. Army Corps of Engineers
Washington Regulatory Field Office
Post Office Box 1000
Washington, North Carolina 27789-1000

Dear Mr. Biddlecome:

Subject: EEP Mitigation Acceptance Letter:

**U-3823, SR 1158 (Airport Boulevard) Widening, Wilson County;
Neuse River Basin (CU 03020203); Northern Inner Coastal Plain
(NICP) Eco-Region**

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide compensatory riverine wetland and stream mitigation for the unavoidable impacts associated with the above referenced project. As indicated in the NCDOT's mitigation request letter, the impacts associated with this project are as follows:

| | |
|-------------------|------------|
| Riverine Wetland: | 0.903 acre |
| Stream: | 89 feet |

Also, this project will impact buffers located in CU 03020203 of the Neuse River Basin. The total buffer impacts are 11,533 square feet in Zone 1 and 7,641 square feet in Zone 2. The NCDOT estimated buffer impacts in the 7-year Impact Projection Database submitted to EEP in May 2005. The buffer mitigation required for the NCDOT's impact projections was incorporated into EEP's biennial budget that was approved in June 2005 by the NCDOT. However, EEP intends to continue managing all of the NCDOT's buffer mitigation requests and approvals through the In-Lieu Fee (ILF) Program's Buffer Fund. Any buffer impact associated with projects located in the Neuse and Tar-Pamlico River Basins, and portions of the Cape Fear and Catawba River Basins are automatic acceptances by the EEP, per the agreement with the NCDWQ.

The NCDOT will be responsible to ensure that the appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWQ's Buffer Certification, the NCDOT will provide the EEP a copy

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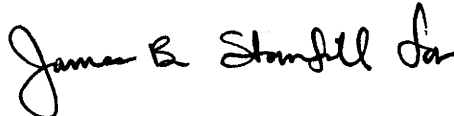
North Carolina Ecosystem Enhancement Program, 1652 Mail Service Center, Raleigh, NC 27699-1652 / 919-715-0476 / www.nceep.net

of the Certification along with a letter verifying the buffer impact/mitigation amounts and requesting a fund transfer to provide the required compensation. The EEP will transfer funds from the MOA Account (Fund 2984) into the ILF Buffer Mitigation Fund (Fund 2982).

EEP will commit to implementing sufficient compensatory stream mitigation to offset the impacts associated with this project by the end of the MOA year in which this project is permitted, in accordance with Section X of the Tri-Party MOA, signed on July 22, 2003. Appropriate wetland and stream mitigation assets available include, but are not limited to, Payne Dale, Moccasin Creek, and the Neu-Con Mitigation Bank.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,

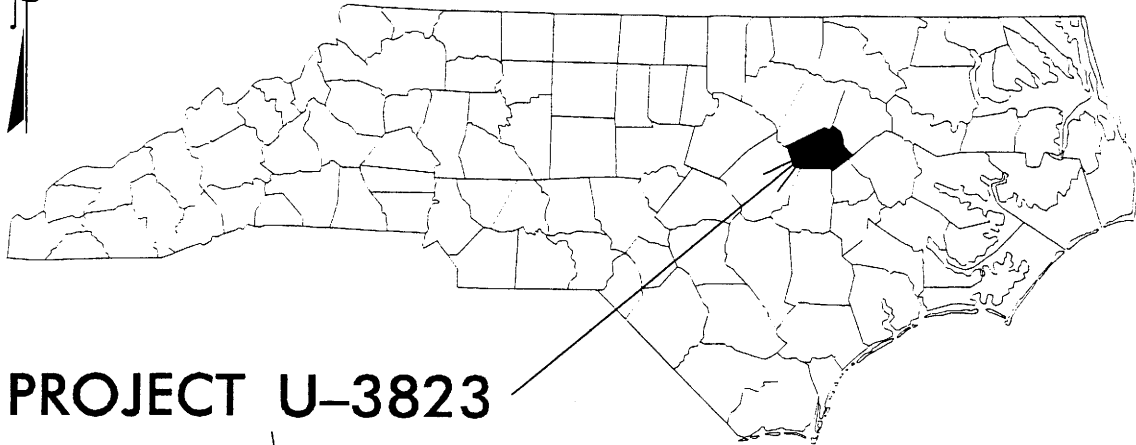
A handwritten signature in black ink, appearing to read "James B. Stansell Jr.", is written over the typed name of William D. Gilmore, P.E.

William D. Gilmore, P.E.
EEP Director

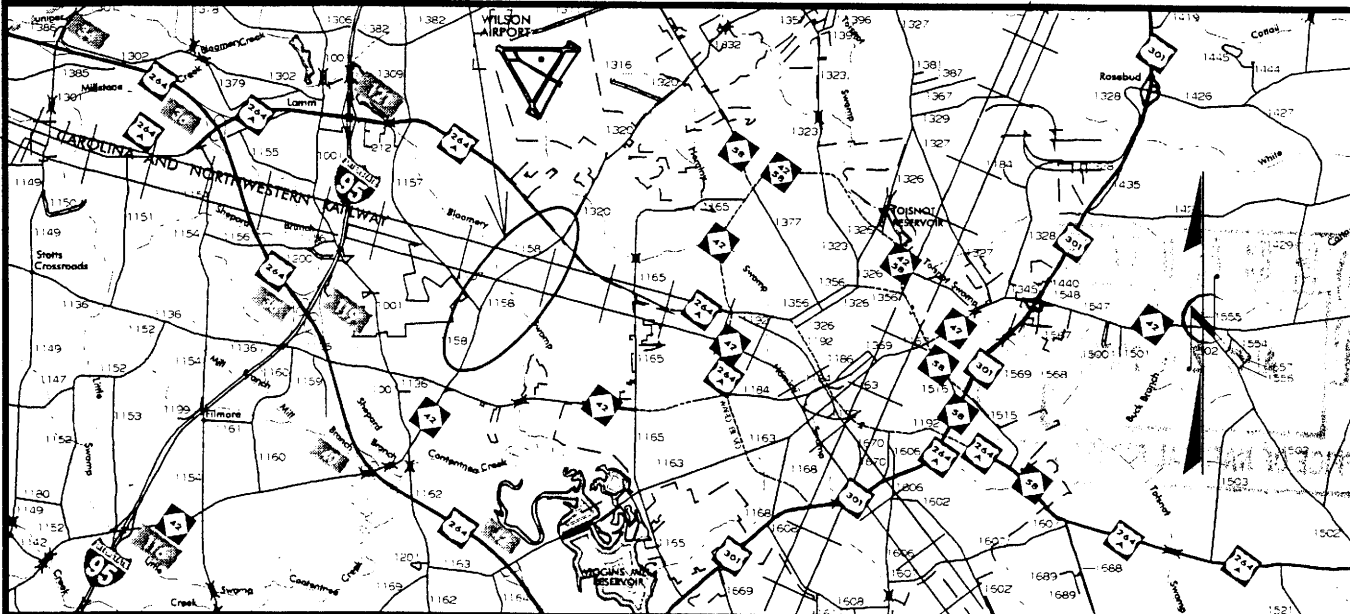
cc: Mr. Gregory J. Thorpe, Ph.D., NCDOT-PDEA
Mr. John Hennessy, Division of Water Quality, Wetlands/401 Unit
File: U-3823

WETLAND DRAWINGS

NORTH CAROLINA

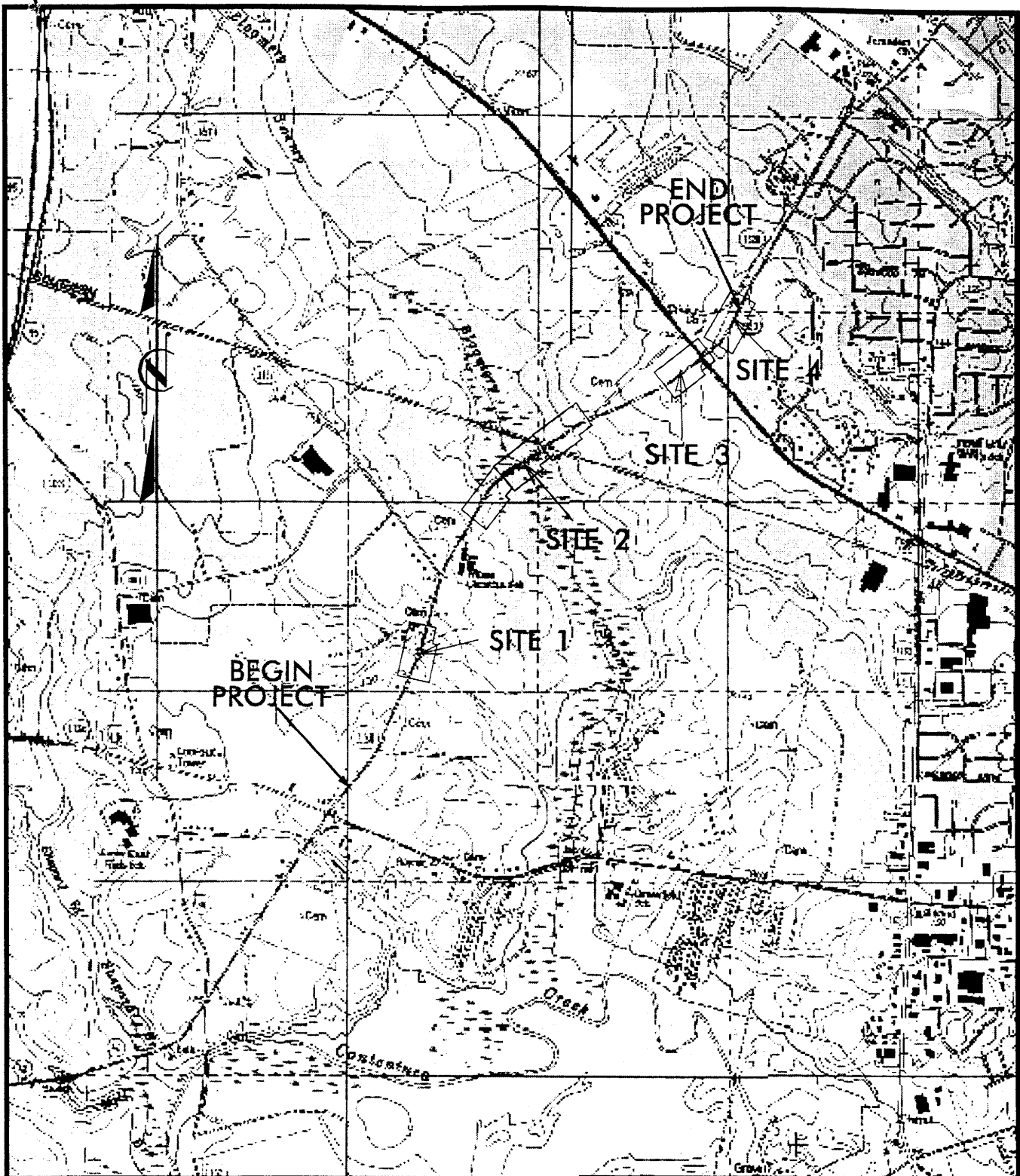


PROJECT U-3823



VICINITY MAP

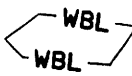








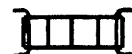
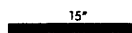
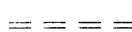




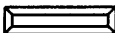
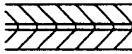
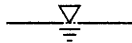

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 1 OF 15



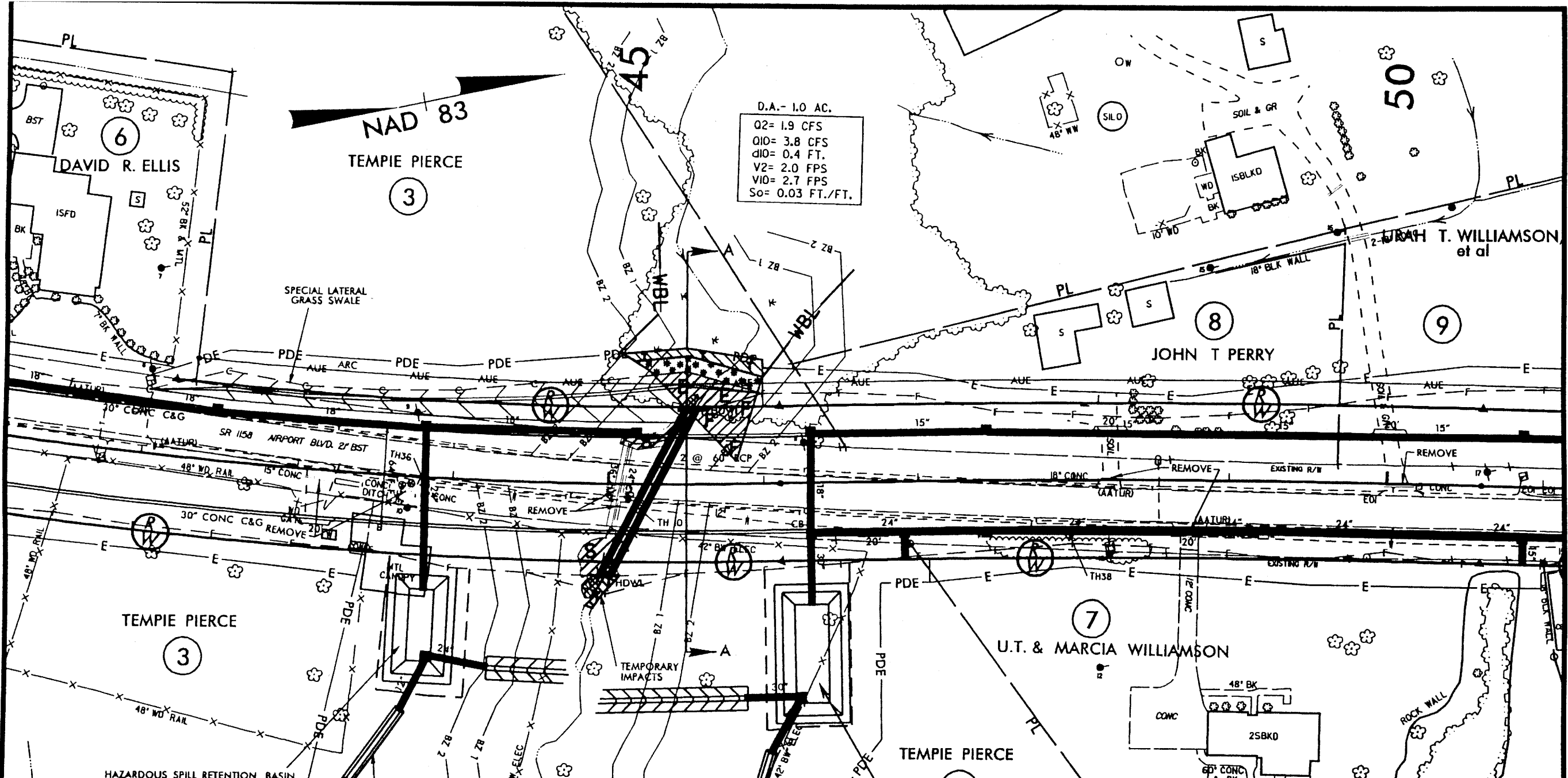
VICINITY MAP

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 2 OF 15




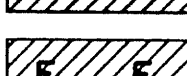
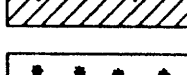
WETLAND LEGEND

- | | |
|---|---|
| <p>— WBL — WETLAND BOUNDARY</p> <p> WETLAND</p> <p> DENOTES EXCAVATION IN WETLANDS</p> <p> DENOTES PERMANENT FILL IN WETLANDS</p> <p> DENOTES FILL IN SURFACE WATER</p> <p> DENOTES MECHANIZED CLEARING IN WETLANDS</p> <p> DENOTES TEMPORARY IMPACTS</p> <p> DENOTES TEMPORARY FILL IN SURFACE WATER</p> <p> FLOW DIRECTION</p> <p>— C — PROP. LIMIT OF CUT</p> <p>— F — PROP. LIMIT OF FILL</p> <p> PROP. RIGHT OF WAY</p> <p>— PL — PROPERTY LINE</p> <p>— E — TEMPORARY CONSTRUCTION EASEMENT</p> <p>— PDE — PERMANENT DRAINAGE EASEMENT</p> <p>— PUE — PERMANENT UTILITY EASEMENT</p> <p>— AUE — PERMANENT AERIAL UTILITY EASEMENT</p> <p> PROPOSED BRIDGE</p> <p> 15" PROPOSED PIPE CULVERT</p> <p> EXISTING PIPE CULVERT</p> <p>■ DRAINAGE INLET</p> <p> SINGLE TREE</p> <p> WOODS LINE</p> <p> RIP RAP</p> | <p> PARCEL NUMBER</p> <p> LEVEL SPREADER</p> <p> DITCH/GRASS SWALE</p> <p> WATER SURFACE</p> <p> PREFORMED SCOUR HOLE</p> |
|---|---|

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 3 OF 15



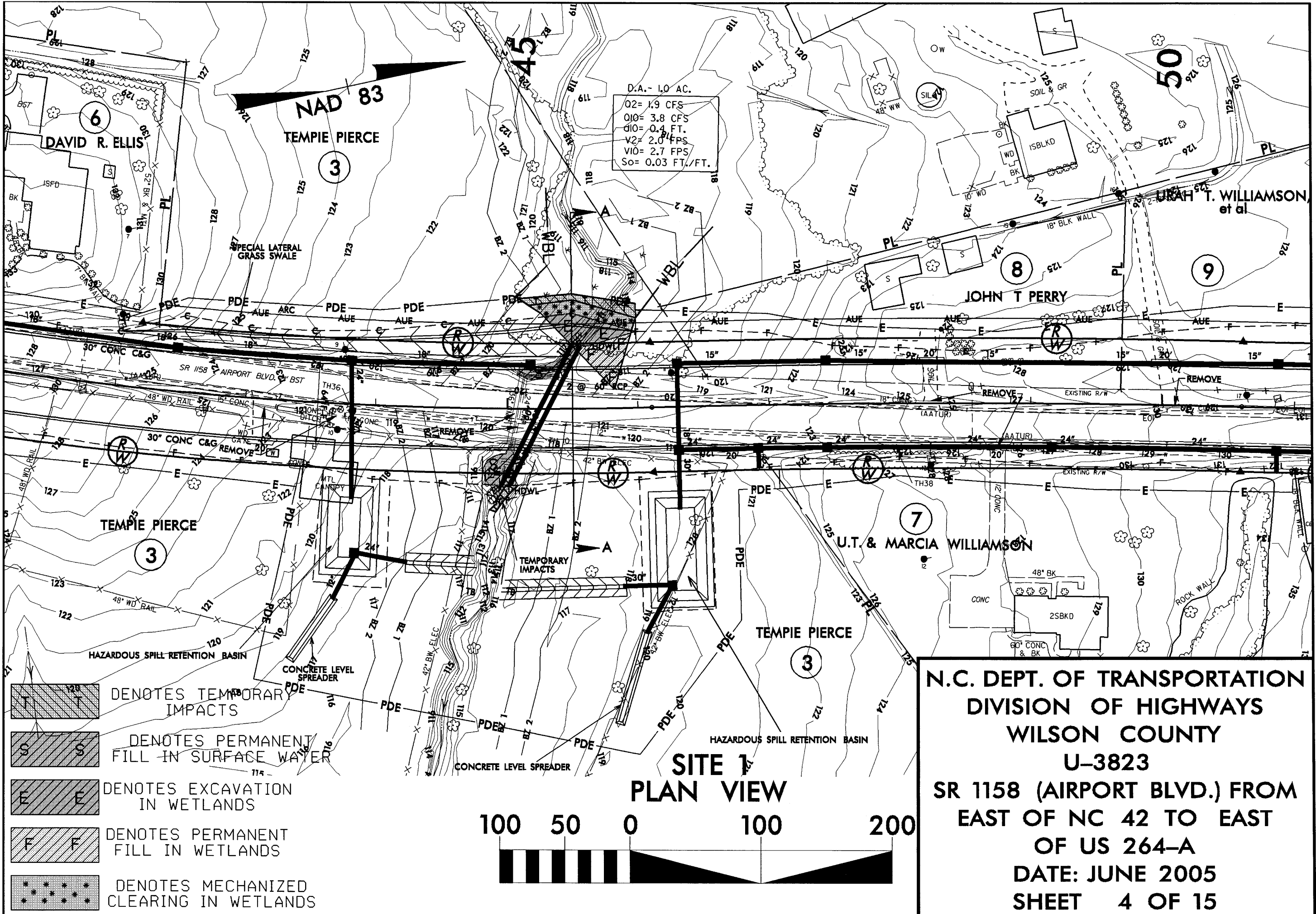
LEGEND

-  DENOTES TEMPORARY IMPACTS
-  DENOTES PERMANENT FILL IN SURFACE WATER
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

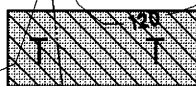


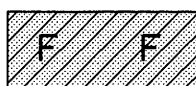
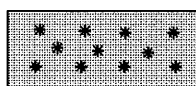
**SITE 1
PLAN VIEW**

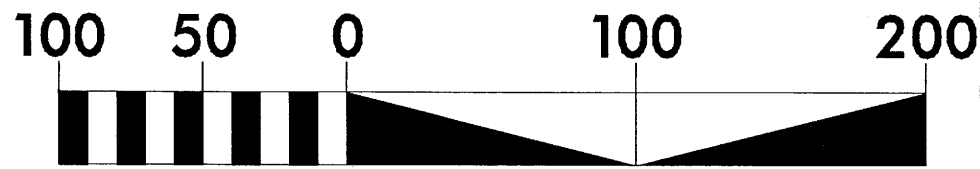
100 50 0 100 200

**N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 4 OF 15**

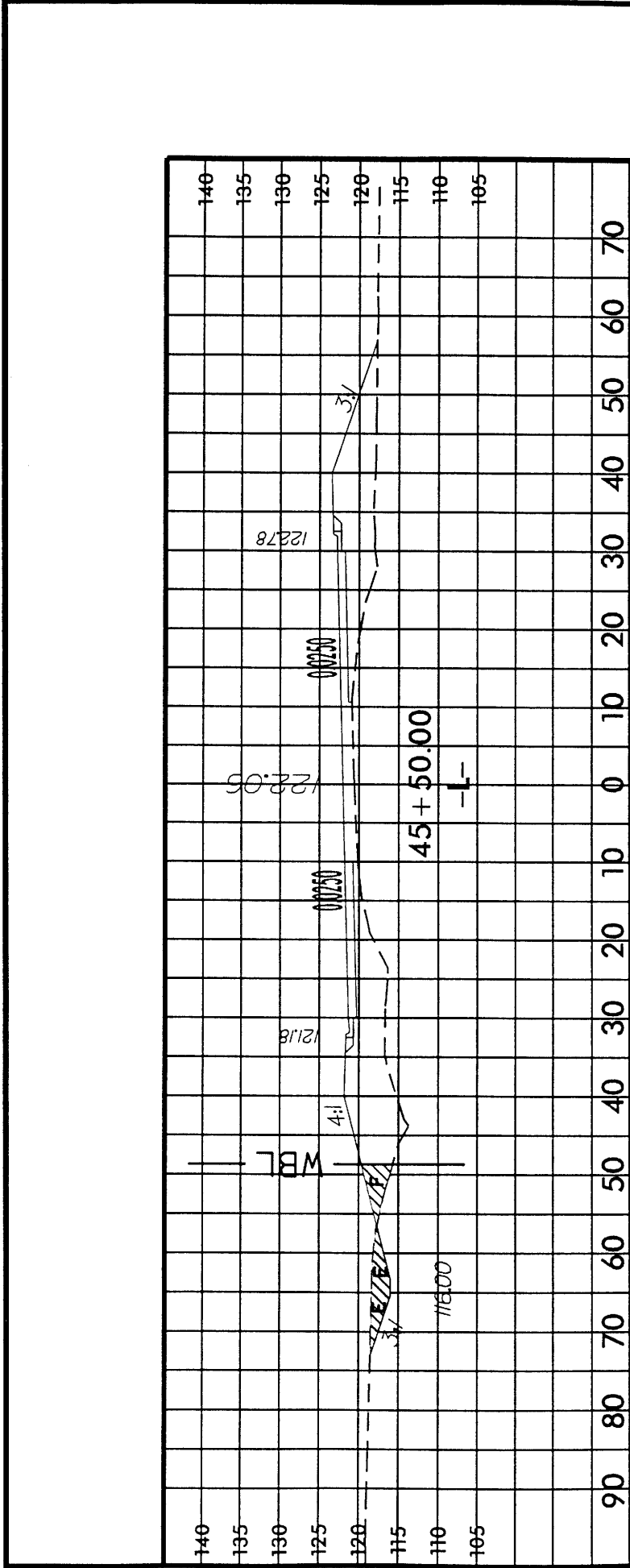


D.A. - 1.0 AC.
 Q2= 1.9 CFS
 Q10= 3.8 CFS
 D10= 0.4 FT.
 V2= 2.0 FPS
 V10= 2.7 FPS
 So= 0.03 FT./FT.

-  DENOTES TEMPORARY IMPACTS
-  DENOTES PERMANENT FILL IN SURFACE WATER
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

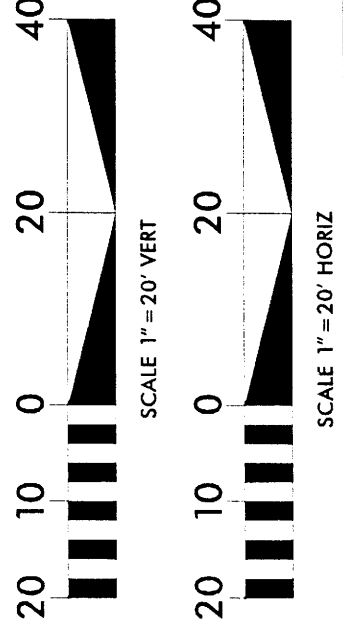


**N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 4 OF 15**

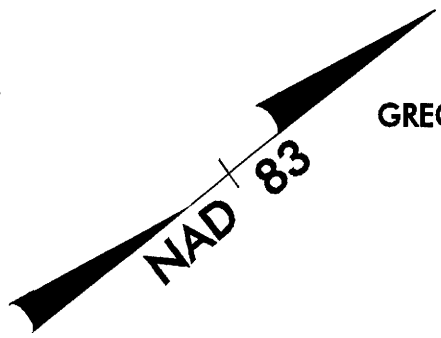


**SITE 1
SECTION A-A**

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 5 OF 15



E DENOTES EXCAVATION
F IN WETLANDS
F DENOTES PERMANENT
F FILL IN WETLANDS



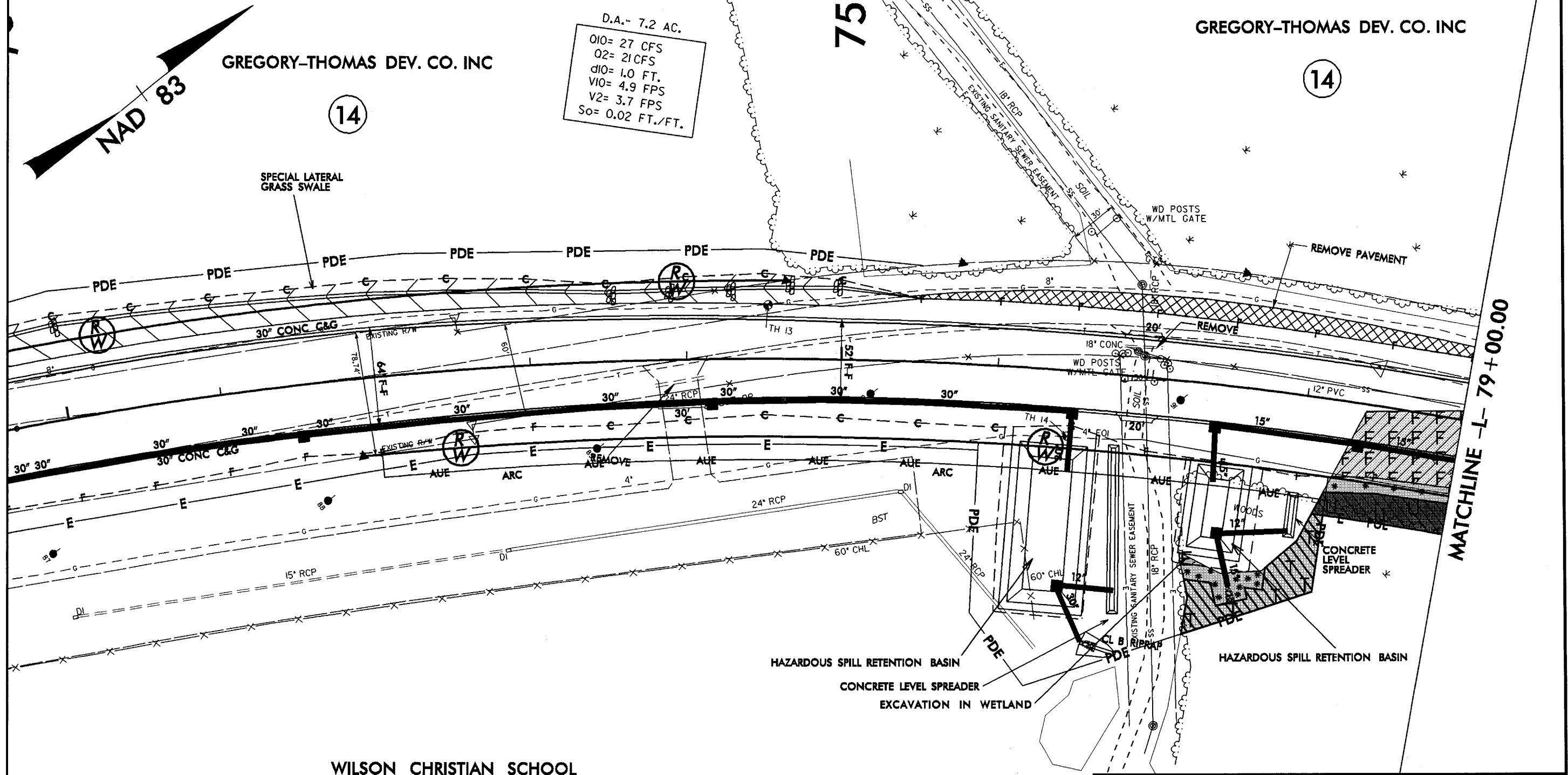
GREGORY-THOMAS DEV. CO. INC

14

D.A. - 7.2 AC.
Q10 = 27 CFS
Q2 = 21 CFS
d10 = 1.0 FT.
V10 = 4.9 FPS
V2 = 3.7 FPS
So = 0.02 FT./FT.




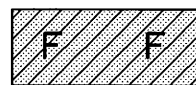
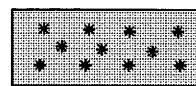
GREGORY-THOMAS DEV. CO. INC

14

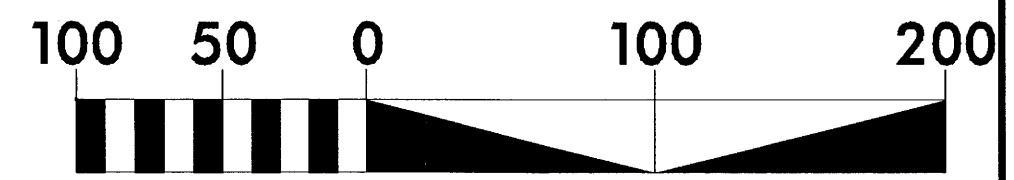


WILSON CHRISTIAN SCHOOL

13

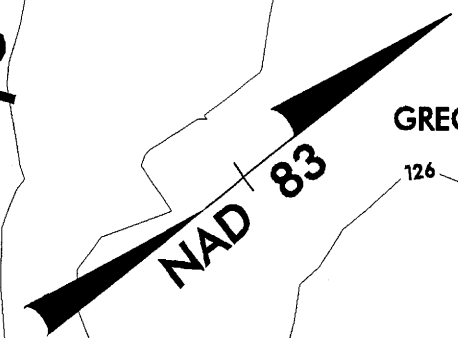
-  DENOTES PERMANENT FILL FOR UTILITES
-  DENOTES TEMPORARY IMPACTS
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

SITE 2 PLAN VIEW



N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: SEPTEMBER 2005
 SHEET 6 OF 15

14



GREGORY-THOMAS DEV. CO. INC

D.A. - 7.2 AC.
Q10 = 27 CFS
Q2 = 21 CFS
d10 = 1.0 FT.
V10 = 4.9 FPS
V2 = 3.7 FPS
So = 0.02 FT./FT.

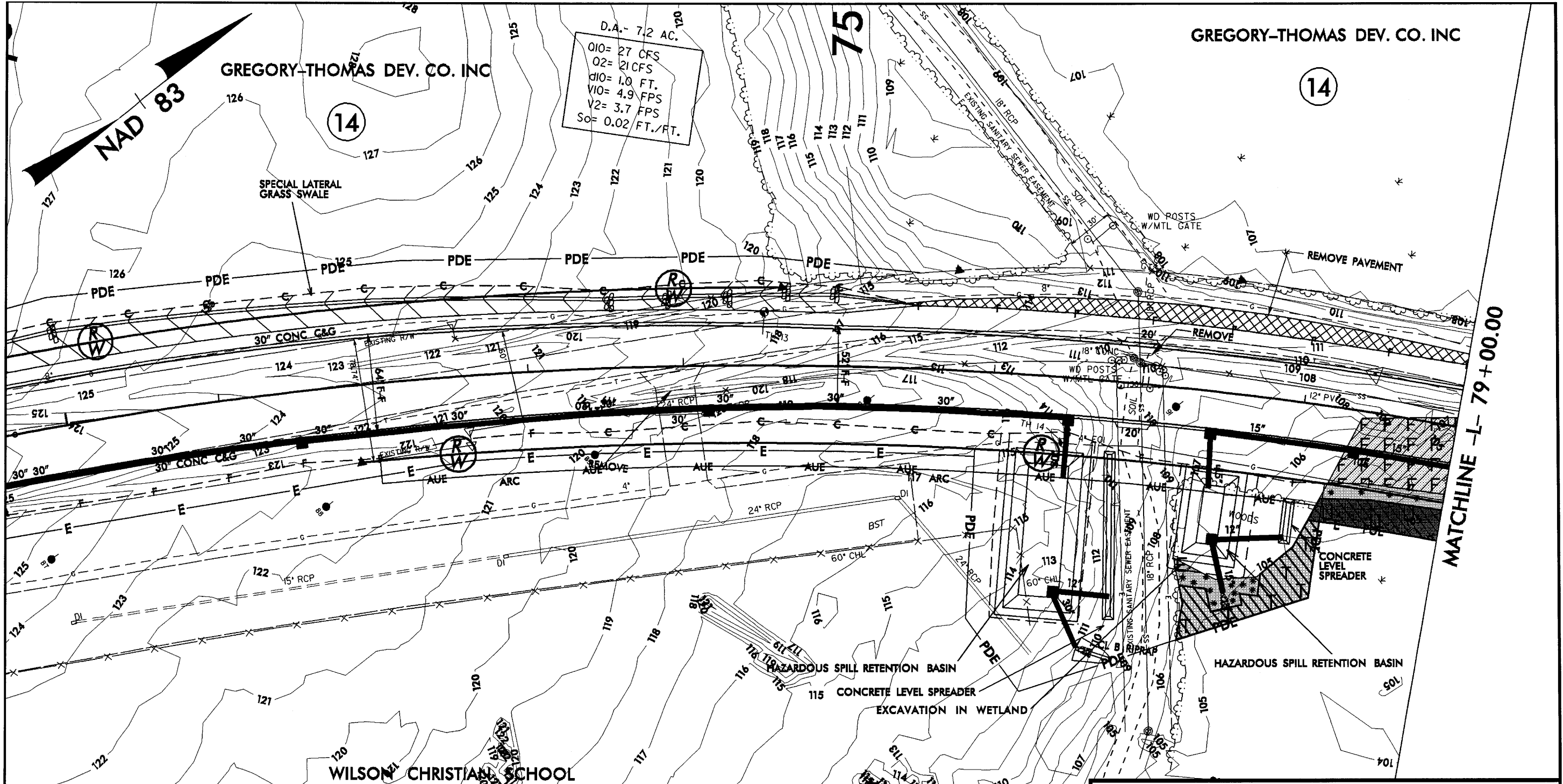
SPECIAL LATERAL GRASS SWALE



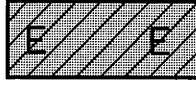
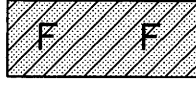
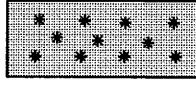
WD POSTS W/MTL GATE

REMOVE PAVEMENT

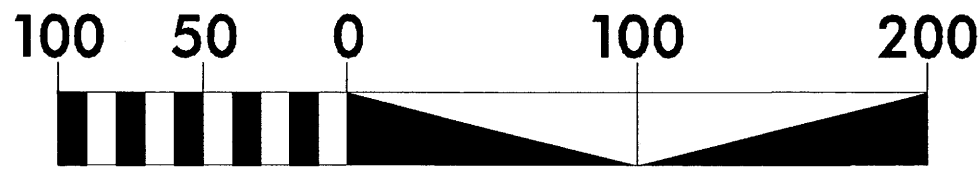
REMOVE

MATCHLINE -L- 79+00.00



-  DENOTES PERMANENT FILL FOR UTILITES
-  DENOTES TEMPORARY IMPACTS
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

SITE 2 PLAN VIEW



**N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: SEPTEMBER 2005
SHEET 6 OF 15**

14

80

NAD 83

TEMPORARY IMPACT

85

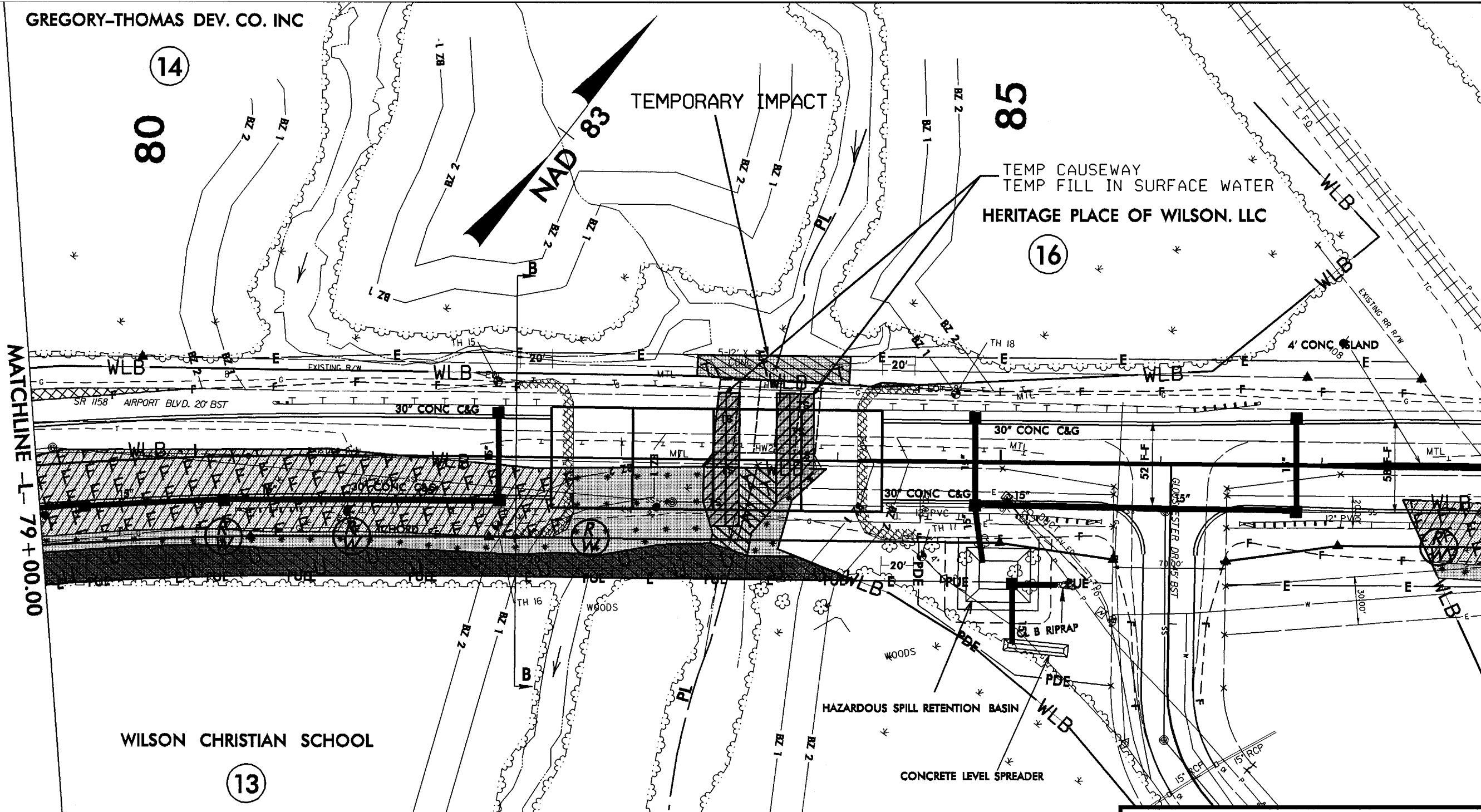
TEMP CAUSEWAY
TEMP FILL IN SURFACE WATER

HERITAGE PLACE OF WILSON. LLC

16

MATCHLINE -L- 79+00.00

MATCHLINE -L- 88+00.00



WILSON CHRISTIAN SCHOOL

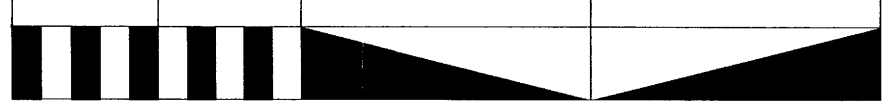
13

HERITAGE PLACE OF WILSON. LLC

15

SITE 2 PLAN VIEW

100 50 0 100 200






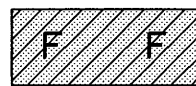
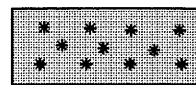
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY

U-3823

SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A

DATE: SEPTEMBER 2005

SHEET 7 OF 15

-  DENOTES PERMANENT FILL FOR UTILITES
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

88
14

85
16

13

15

TEMPORARY IMPACT


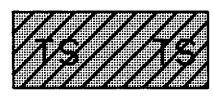
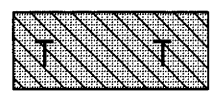
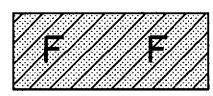
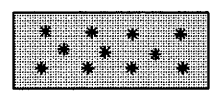
TEMP CAUSEWAY
TEMP FILL IN SURFACE WATER
HERITAGE PLACE OF WILSON. LLC

HERITAGE PLACE OF WILSON. LLC

WILSON CHRISTIAN SCHOOL

MATCHLINE -L- 79+00.00

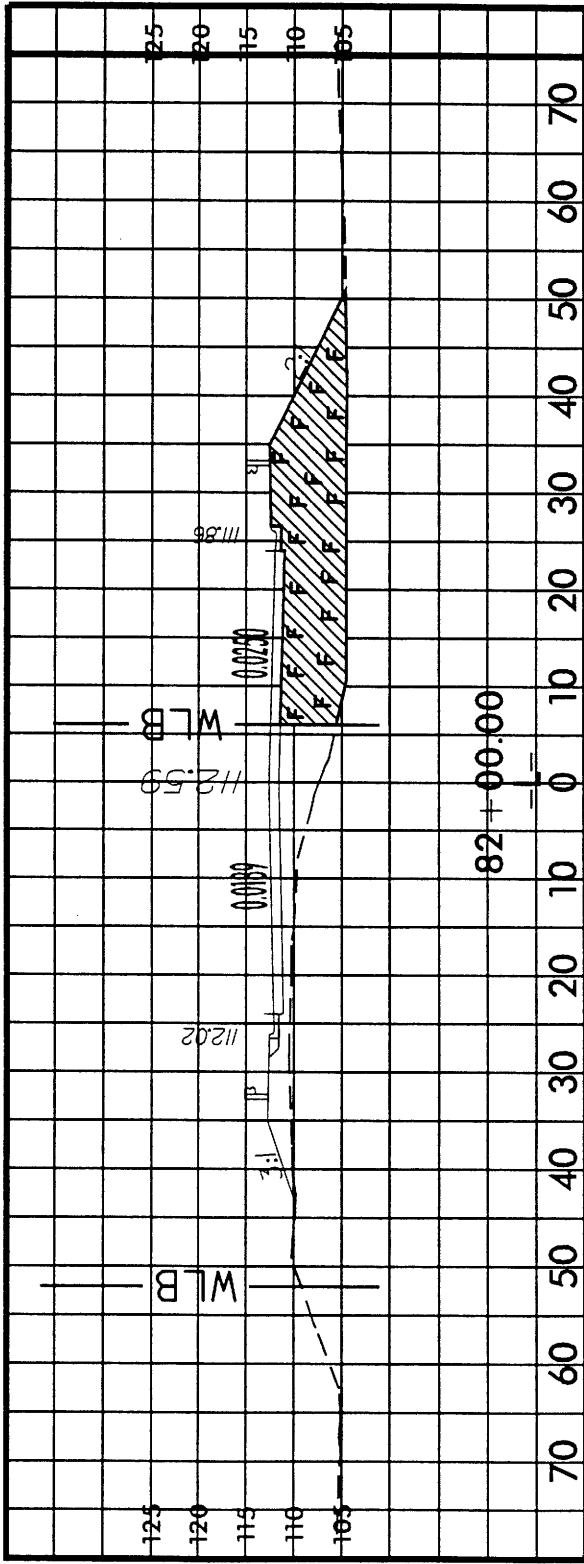
MATCHLINE -L- 88+00.00

-  DENOTES PERMANENT FILL FOR UTILITES
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

SITE 2 PLAN VIEW



N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: SEPTEMBER 2005
 SHEET 7 OF 15



**SITE 2
SECTION B-B**

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 8 OF 15



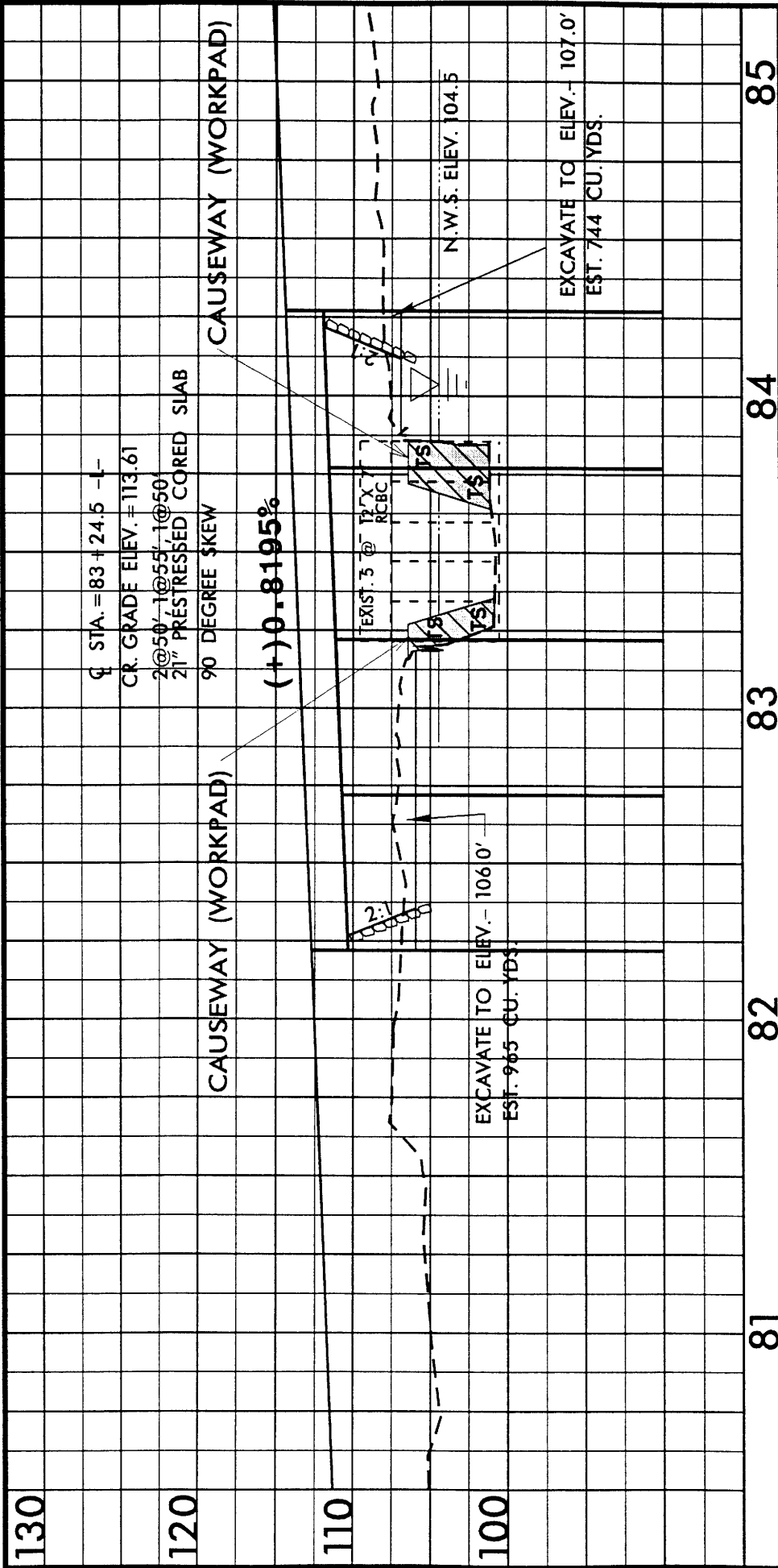
SCALE 1" = 20' VERT



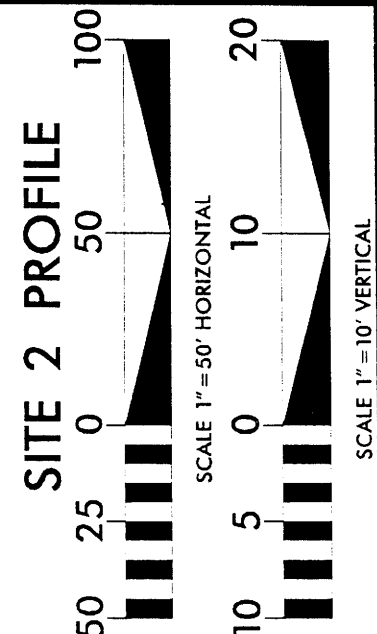
SCALE 1" = 20' HORIZ

DENOTES PERMANENT
 FILL IN WETLANDS





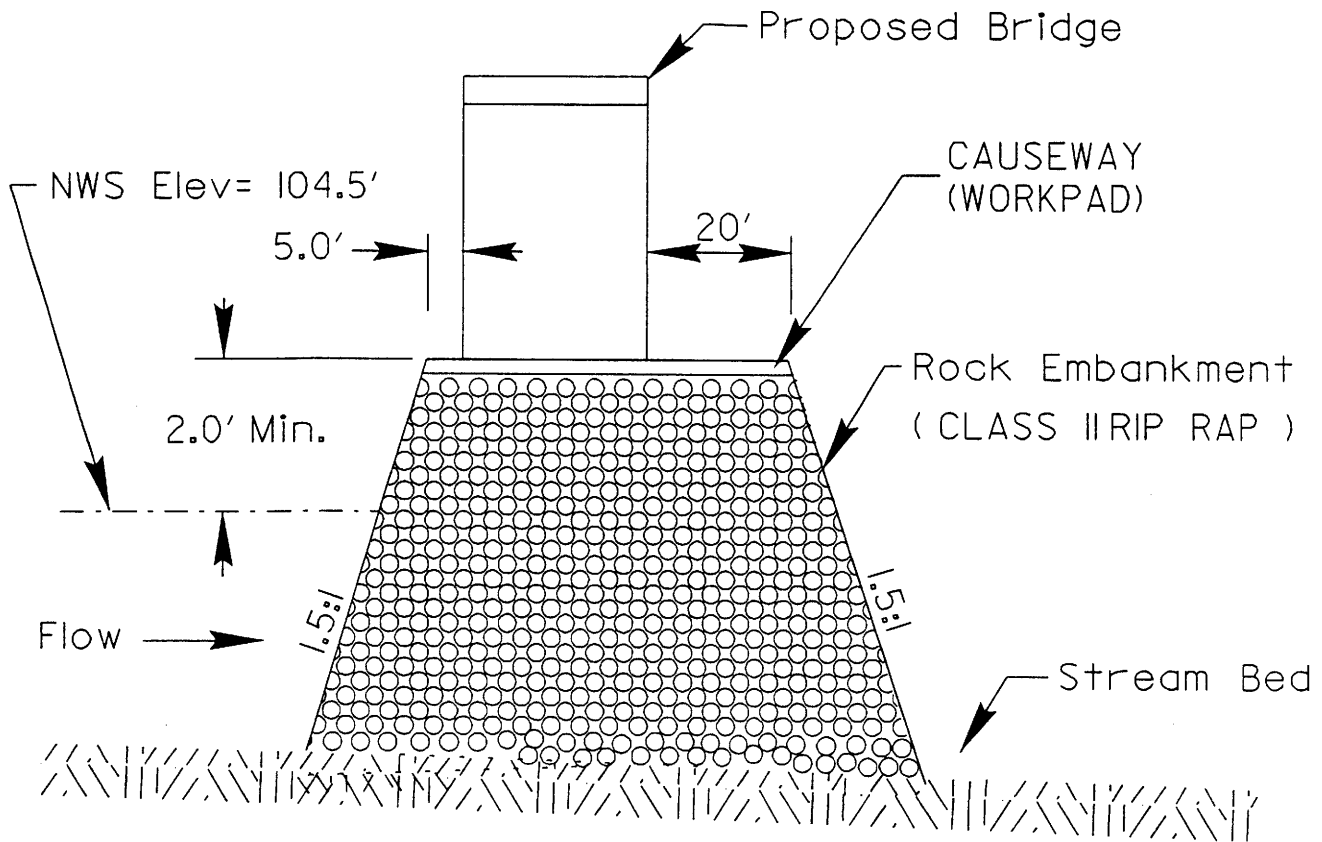
N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 9 OF 15



DENOTES TEMPORARY FILL
 IN SURFACE WATER



DETAIL OF CAUSEWAY



VOLUME OF CLASS II
RIP RAP BELOW W.S. = 1300yds³

AREA OF
CLASS II RIP RAP = 0.07ac

(NOT TO SCALE)

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
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OF US 264-A
DATE: JUNE 2005
SHEET 10 OF 15

HERITAGE PLACE OF WILSON. LLC

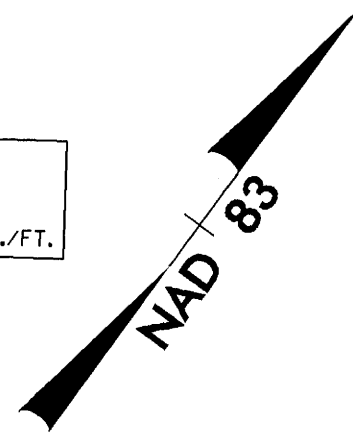
90

16

95

D.A. - 1.7 AC.

0- 0.3 CFS
d- 0.1 FT.
V- 0.9 FPS
So- .026 FT./FT.



MATCHLINE - 88+00.00

TEMPORARY IMPACT

PREFORMED SCOUR HOLE
SEE DETAIL ON SHEET 2-A

4' CONC ISLAND

RETAIN

4' CONC ISLAND

EXISTING R/W

WLB

TH 19

15"

WLB

PDE

PDE

PDE

PDE

PDE

SR 1158 AIRPORT BLVD. 20' BST

15"

15"

REMOVE

COLLAR METER

TH 41

30"

30"

TH 20

24"

24"

24"

24"

HDWL

30"

30"

CHORD

HERITAGE PLACE OF WILSON. LLC

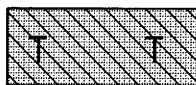
15

HERITAGE CROSSING, LLC

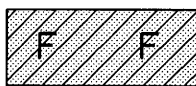
17

HAZARDOUS SPILL RETENTION BASIN

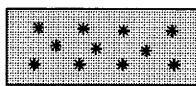
CONCRETE LEVEL SPREADER



DENOTES TEMPORARY IMPACTS

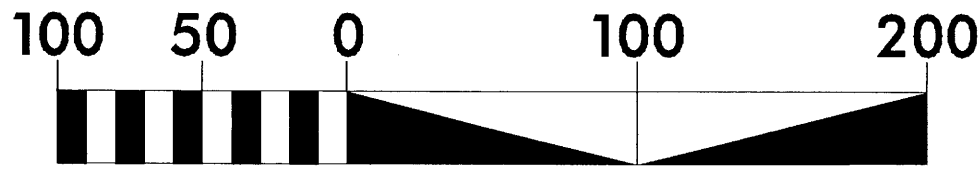


DENOTES PERMANENT FILL IN WETLANDS

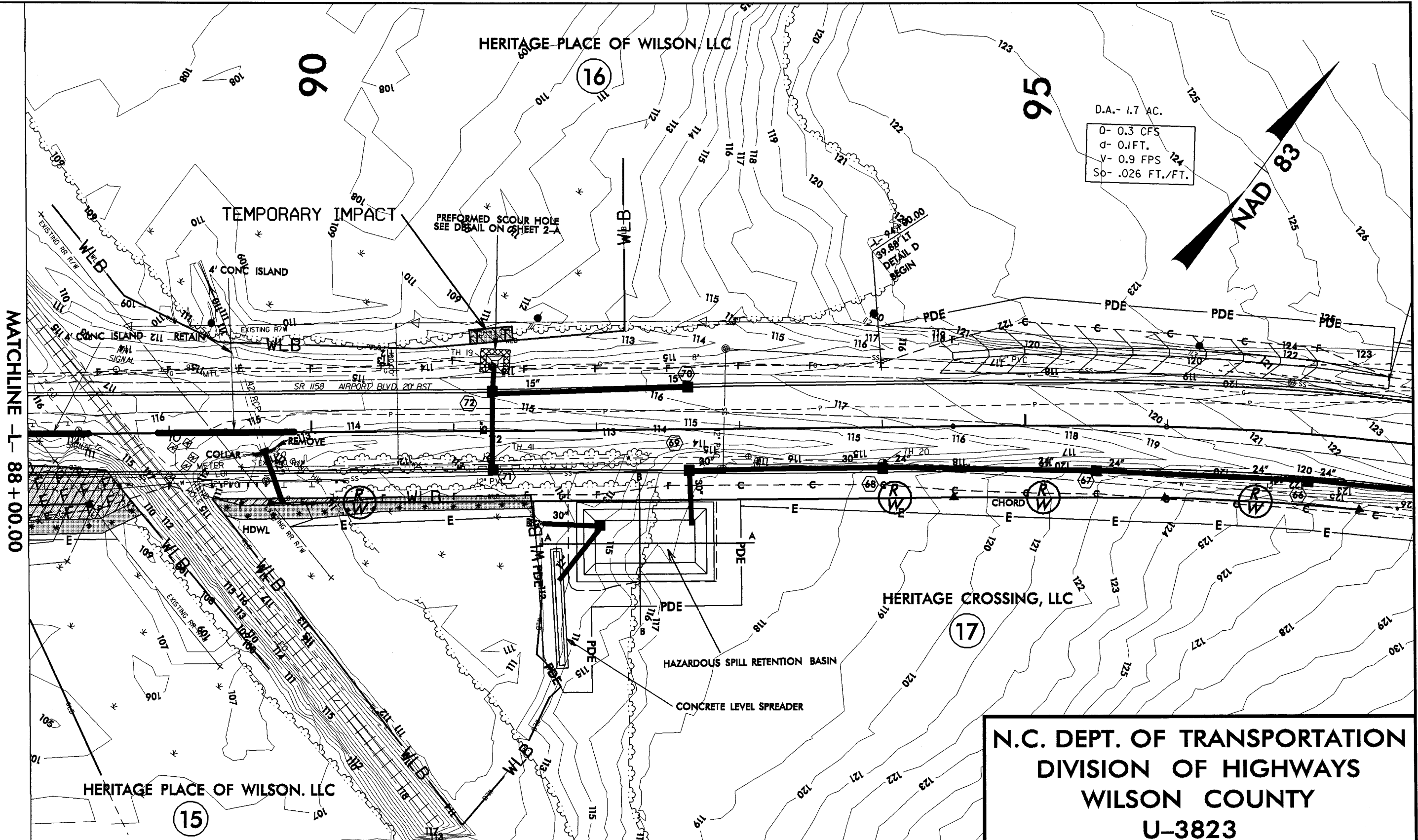


DENOTES MECHANIZED CLEARING IN WETLANDS

SITE 2 PLAN VIEW

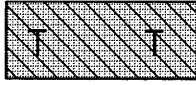
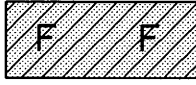
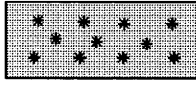


N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 11 OF 15



D.A. - 1.7 AC.
 0 - 0.3 CFS
 d - 0.1 FT.
 V - 0.9 FPS
 Sp - .026 FT./FT.

MATCHLINE - L - 88 + 00.00

-  DENOTES TEMPORARY IMPACTS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS



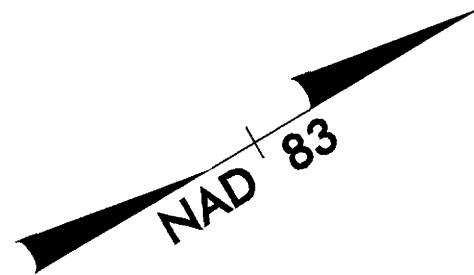
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 11 OF 15

125

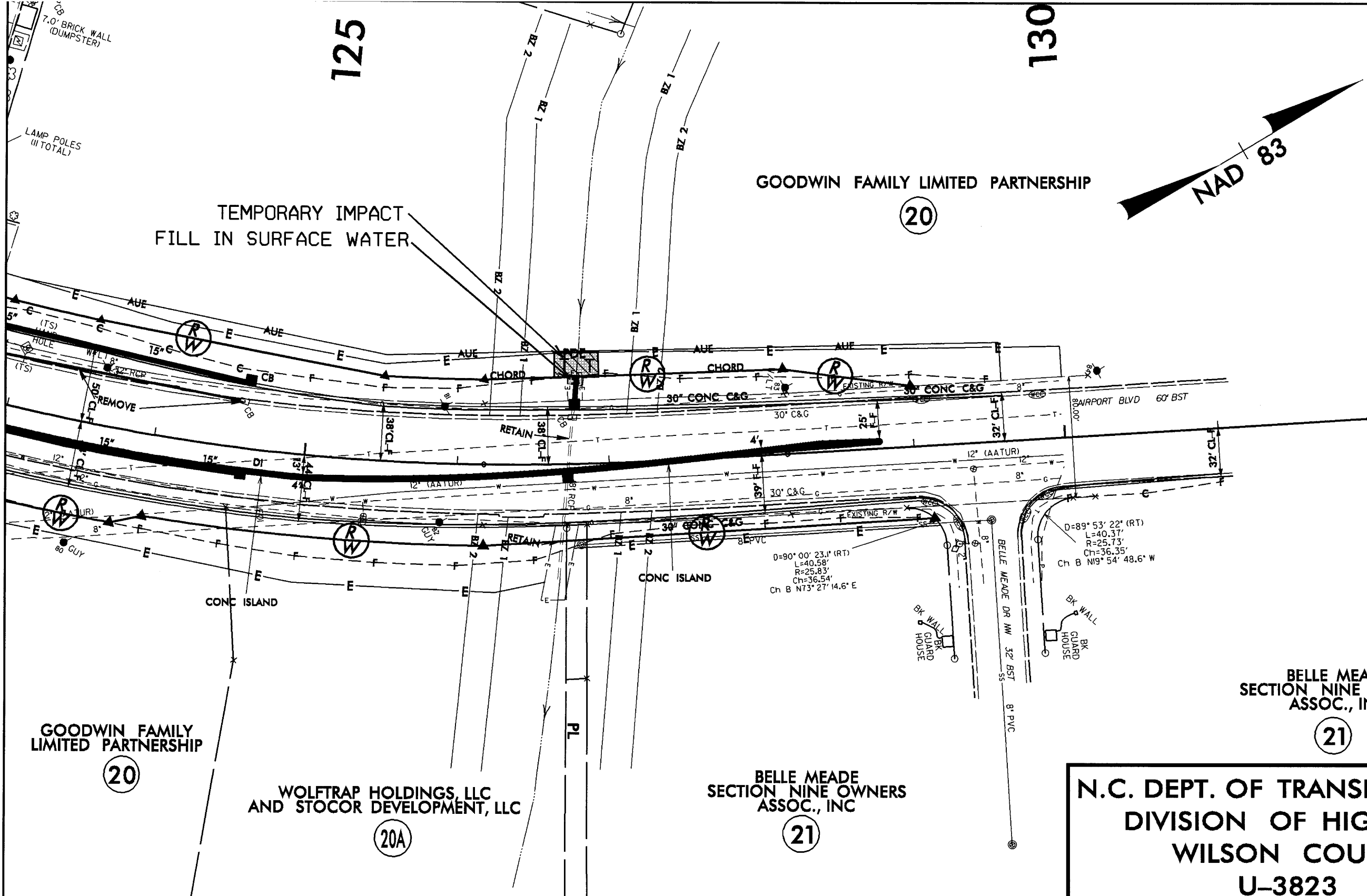
130

GOODWIN FAMILY LIMITED PARTNERSHIP

20



TEMPORARY IMPACT
FILL IN SURFACE WATER



GOODWIN FAMILY
LIMITED PARTNERSHIP

20

WOLFTRAP HOLDINGS, LLC
AND STOCOR DEVELOPMENT, LLC

20A

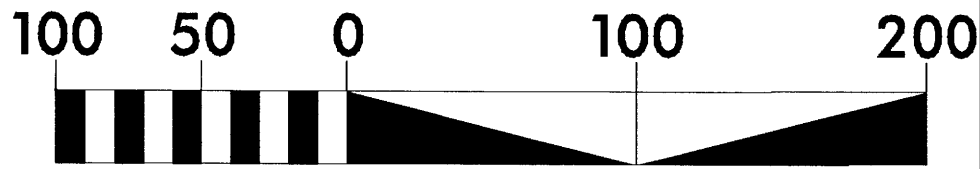
BELLE MEADE
SECTION NINE OWNERS
ASSOC., INC

21

BELLE MEADE
SECTION NINE OWNERS
ASSOC., INC

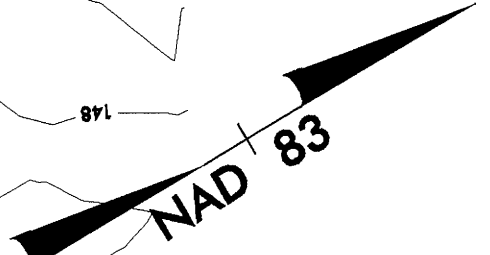
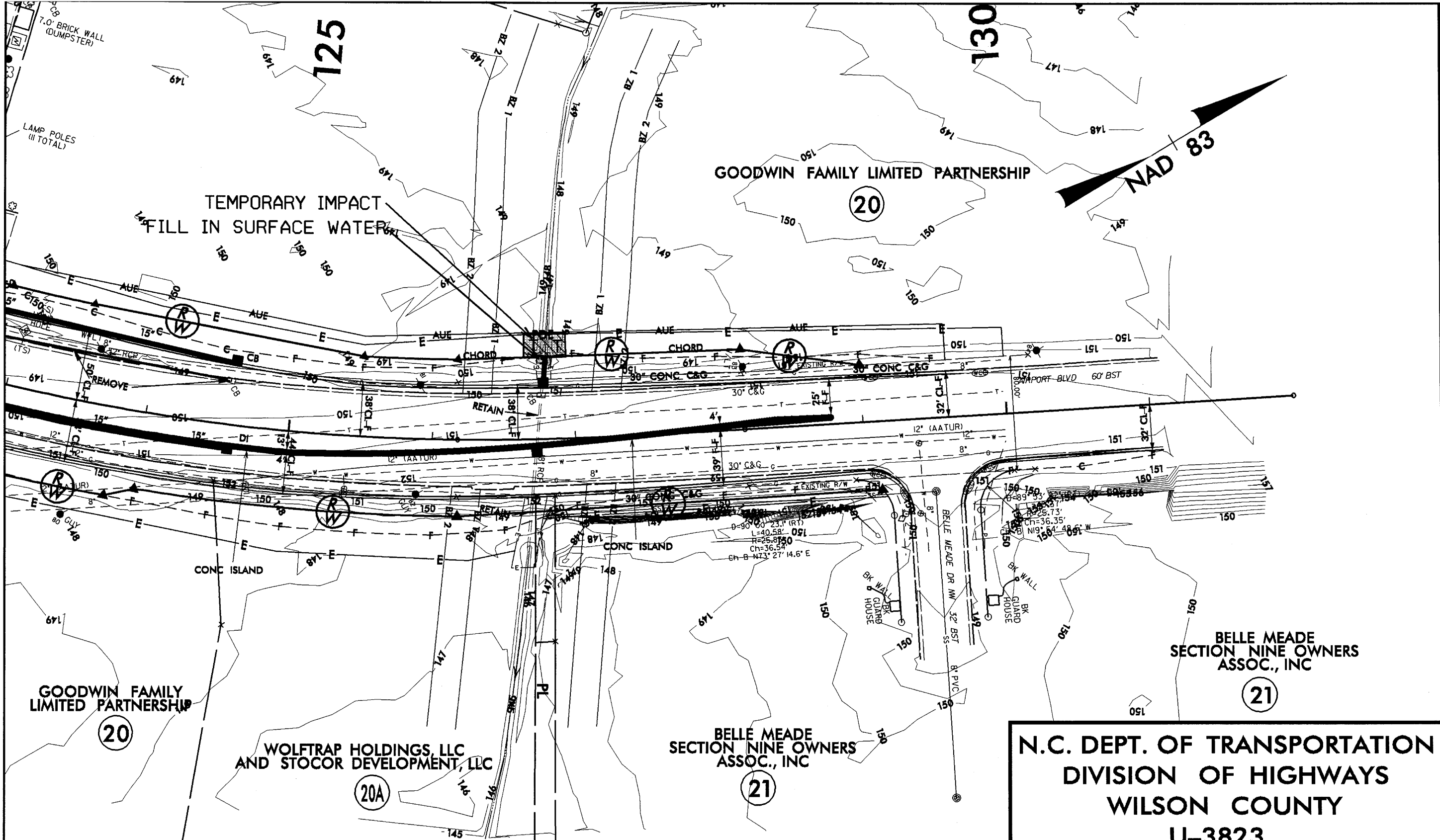
21

SITE 4 PLAN VIEW

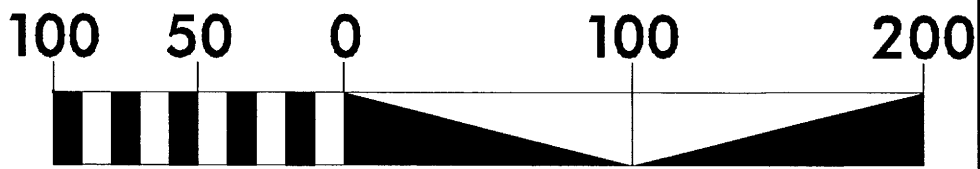




- DENOTES TEMPORARY IMPACTS
- DENOTES PERMANENT FILL IN SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 13 OF 15

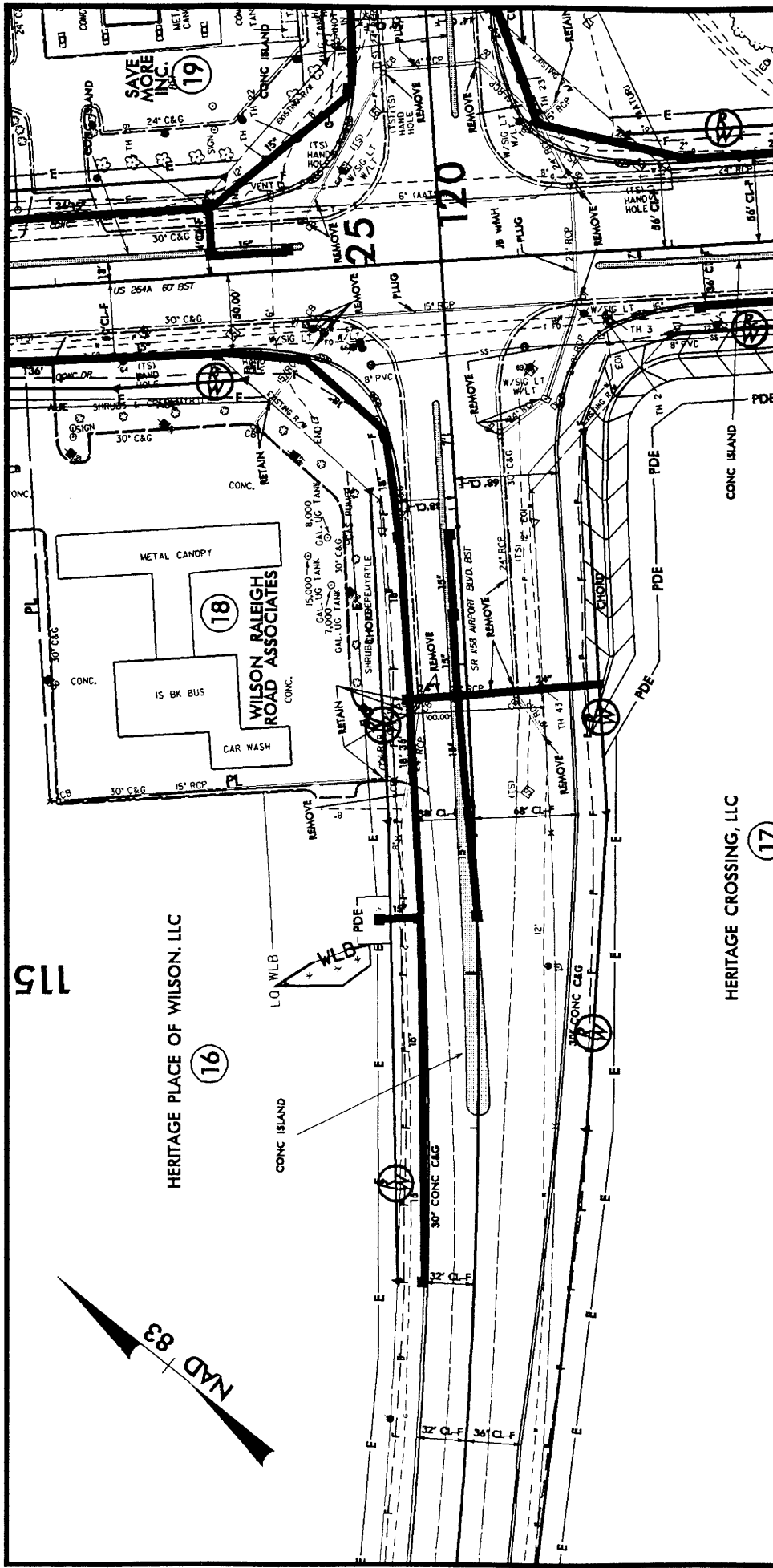


SITE 4 PLAN VIEW

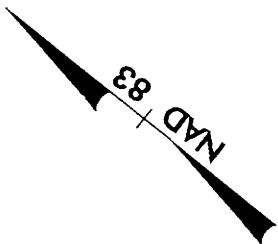


-  DENOTES TEMPORARY IMPACTS
-  DENOTES PERMANENT FILL IN SURFACE WATER

**N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 13 OF 15**



1151



N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE, 2005
 SHEET 12 OF 15

SITE 3 PLAN VIEW



SCALE 1" = 100'

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) | Temp. Impacts (ac) | Hand Clearing in Wetlands (ac) | Permanent Fill in SW (ac) | Temp. Fill in SW (ac) | Existing Channel Impacts Permanent (ft) | Natural Stream Design (ft) | | | |
| 1 | 44+95-45+55 -L- | 2 @ 60" RCP 2@50',1@55',1@50' 21" PRESTRESSED CORED SLAB O.A.L. 205' | 0.019 | 0.017 | 0.021 | 0.017 | | | | | 0.028 | | | 82 | |
| 2 | 77+25-91+55 -L- | | 0.547 | 0.118 | 0.001 | 0.299 | | | | | | 0.066 | | | |
| 3 | 114+90-115.20 -L- | | | | | | | | | | 0.001 | | | 7 | |
| 4 | 126+79 -L- | 18" RCP | | 0.010 | | | | | | | | | | | |
| TOTALS: | | | 0.566 | 0.145 | 0.022 | 0.316 | | | | 0.029 | 0.066 | | | 89 | |

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 269-A
 DATE: SEPTEMBER 2005
 SHEET 14 OF 15

SITE 2 CONTAINS 0.235 ACRE OF PERMANENT WETLAND IMPACT FOR UTILITY RELOCATION
 SITE 2 CONTAINS 0.06 ACRES OF SHADING

AN ADDITIONAL 0.001 ACRE OF PERMANENT FILL IN SURFACE WATER WILL OCCUR AT SITE 2 AS A RESULT OF A BRIDGE BENT.

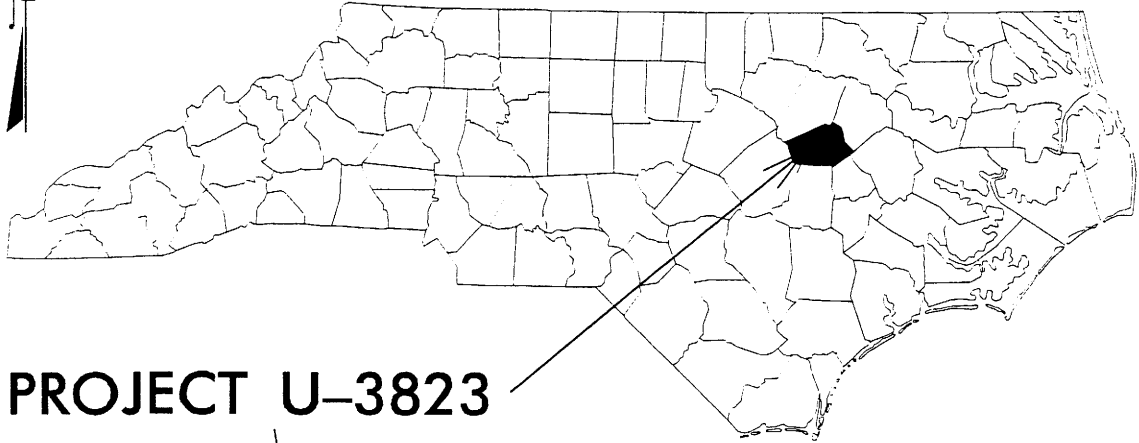
**PROPERTY OWNERS
NAMES AND ADDRESSES**

| PARCEL NO. | NAMES | ADDRESSES |
|-------------------|---|--|
| 3 | TEMPIE PIERCE | 1906 CAMBRIDGE DR KINSTON NC 28501 |
| 6 | DAVID R. ELLIS | 4270 WILSON CHRISTIAN RD WILSON NC 27893-9287 |
| 7 | U.T. & MARCIA WILLIAMSON | 1744 AIRPORT BLVD W WILSON NC 27893-9283 |
| 8 | JOHN T PERRY | 2405 HORTON BLVD U-3 WILSON NC 27893 |
| 9 | URAH T. WILLIAMSON, et al | P O BOX 7057 WILSON NC 27895-7057 |
| 13 | WILSON CHRISTIAN SCHOOL | WILSON NC 27893 |
| 14 | GREGORY-THOMAS DEV. CO. INC | 2408 WINDING CREEK DR SW WILSON NC 27893-8615 |
| 15 | HERITAGE PLACE OF WILSON. LLC | PO BOX 3299 WILSON NC 27895 |
| 16 | HERITAGE PLACE OF WILSON. LLC | PO BOX 3299 WILSON NC 27895 |
| 17 | HERITAGE PLACE OF WILSON LLC | PO BOX 3299 WILSON NC 27895 |
| 18 | WILSON RALEIGH ROAD ASSOCIATES | PO BOX 31788 RALEIGH NC 27622-1788 |
| 19 | SAVE MORE INC. | P O BOX 519 SENACA, SC 29679 |
| 20 | GOODWIN FAMILY LIMITED PARTNERSHIP | 3005 FARMINGTON PLACE WILSON NC 27896 |
| 20A | WOLFTRAP HOLDINGS, LLC AND STOCOR DEVELOPMENT, LLC | 3005 FARMINGTON PLACE WILSON NC 27896 |
| 21 | BELLE MEADE SECTION NINE OWNERS ASSOC., INC | 3005 FARMINGTON PLACE WILSON NC 27896 |

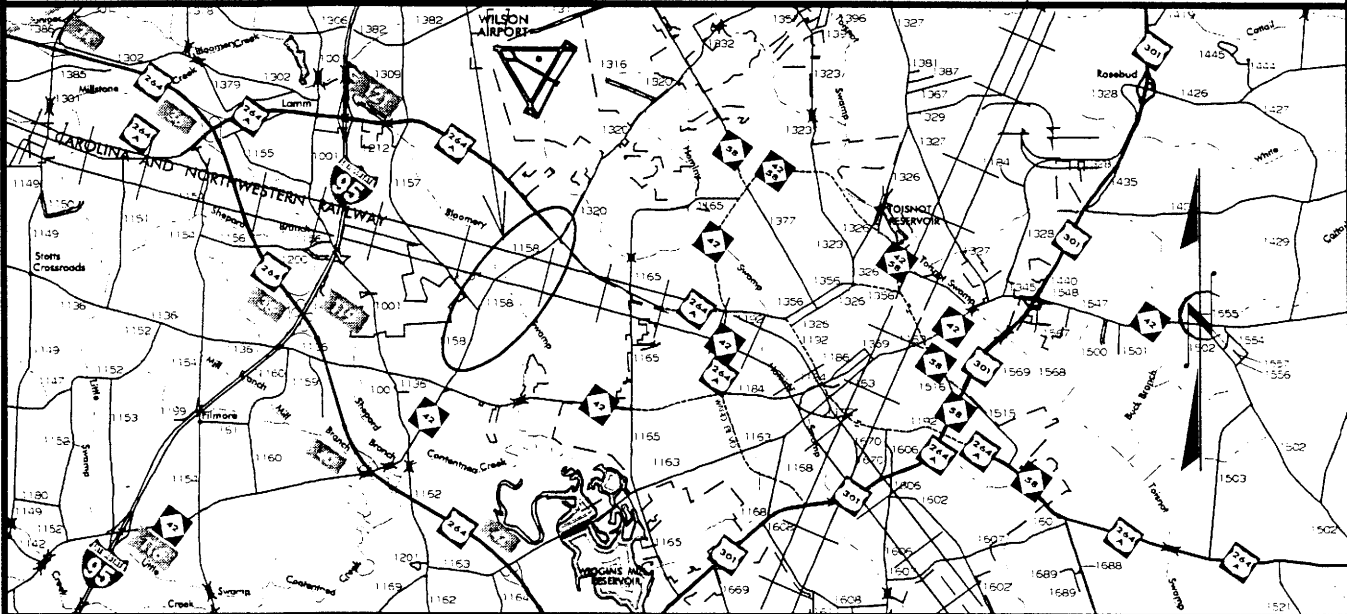
**N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 15 OF 15**

BUFFER DRAWINGS

NORTH CAROLINA

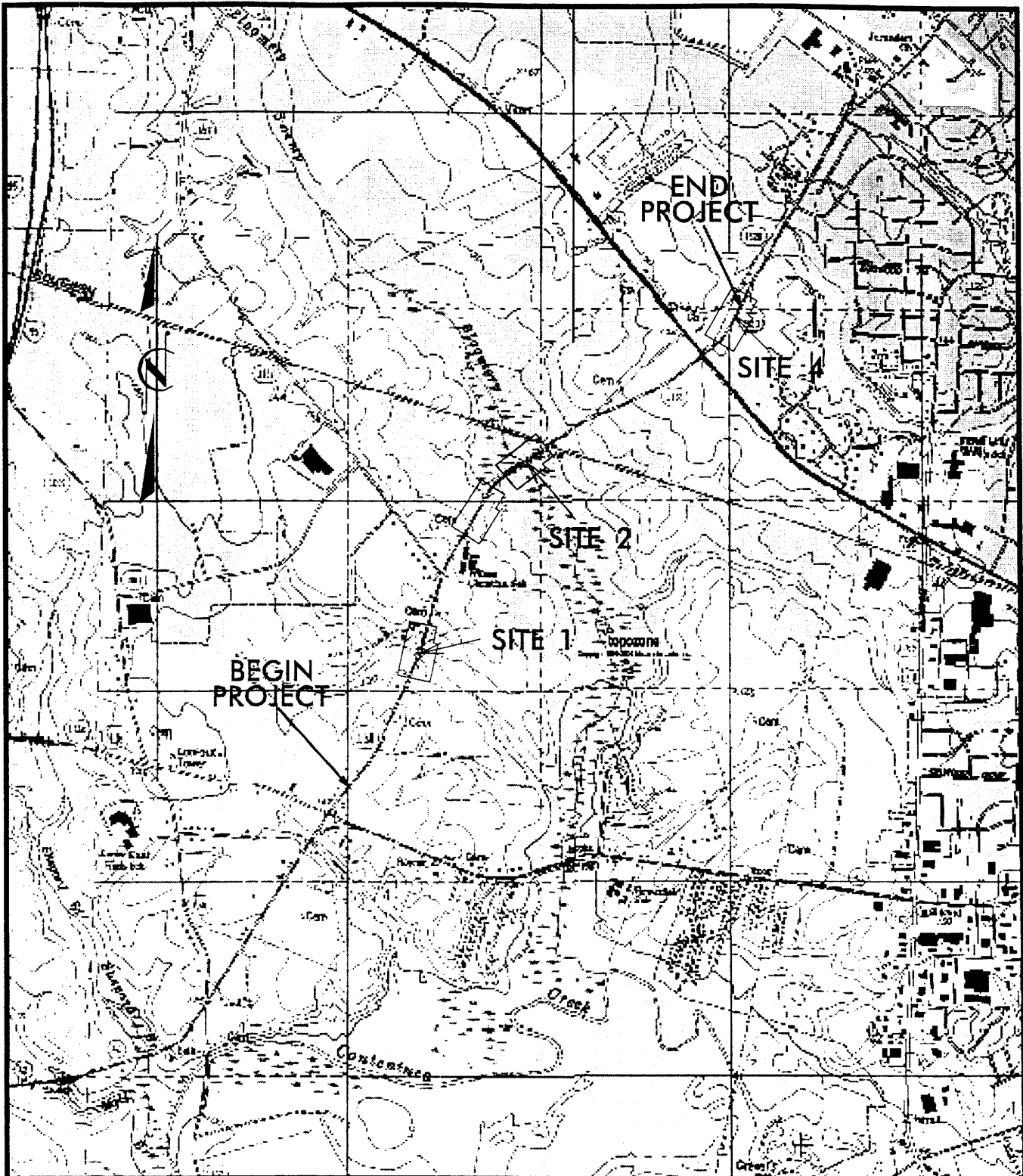


PROJECT U-3823



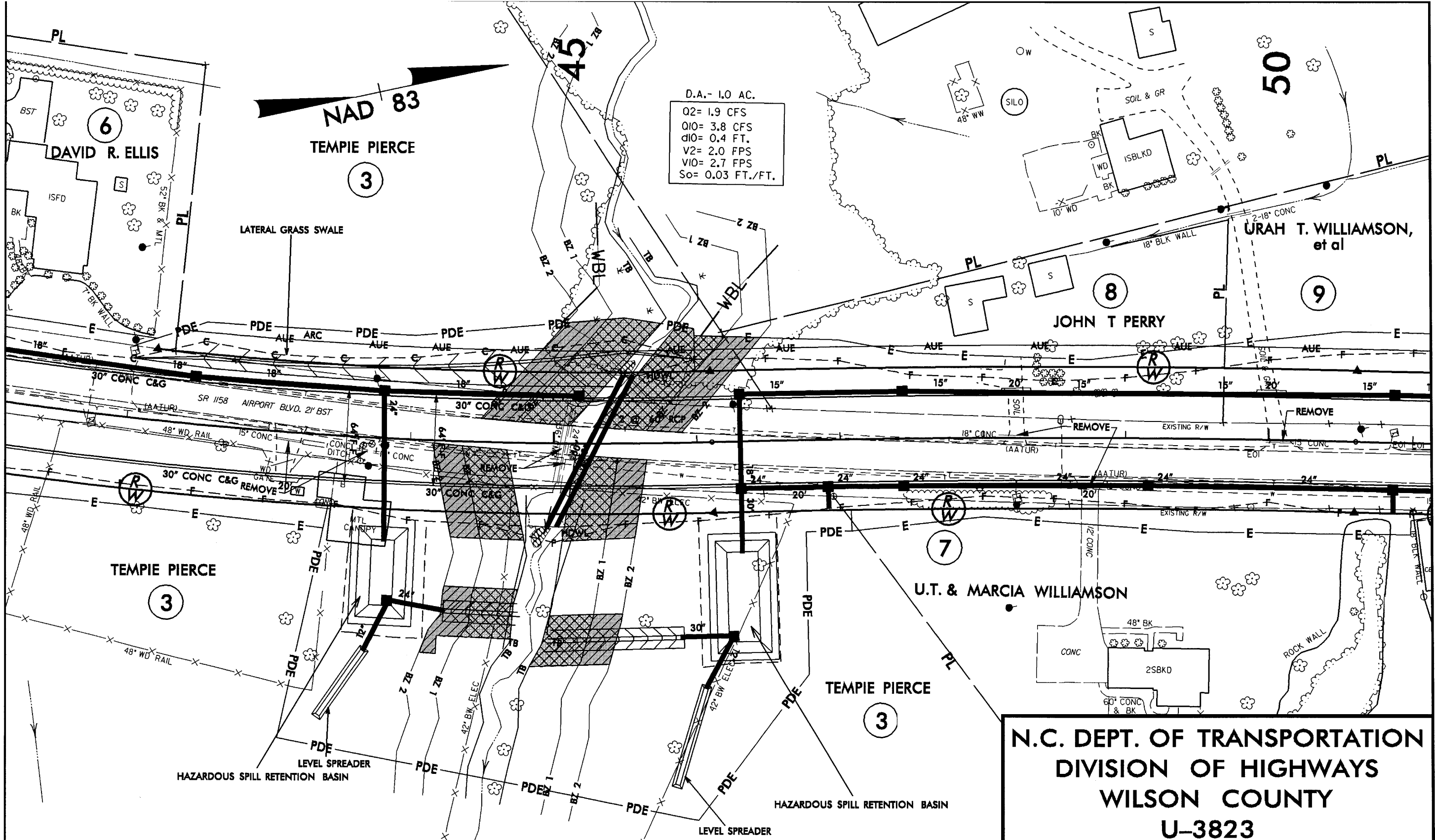
**VICINITY
MAP**

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 1 OF 8



**VICINITY
MAP**

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 2 OF 8

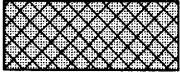



D.A. - 1.0 AC.
 Q2 = 1.9 CFS
 Q10 = 3.8 CFS
 d10 = 0.4 FT.
 V2 = 2.0 FPS
 V10 = 2.7 FPS
 So = 0.03 FT./FT.

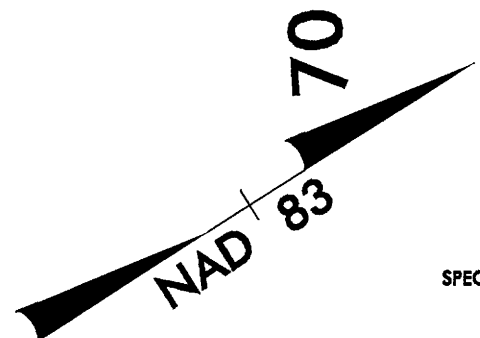
**SITE 1
 IMPACTED NEUSE BUFFER ZONES**

100 50 0 100 200



 MITIGABLE IMPACTS ZONE 1
 MITIGABLE IMPACTS ZONE 2

**N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: AUGUST 2005
 SHEET 3 OF 8**



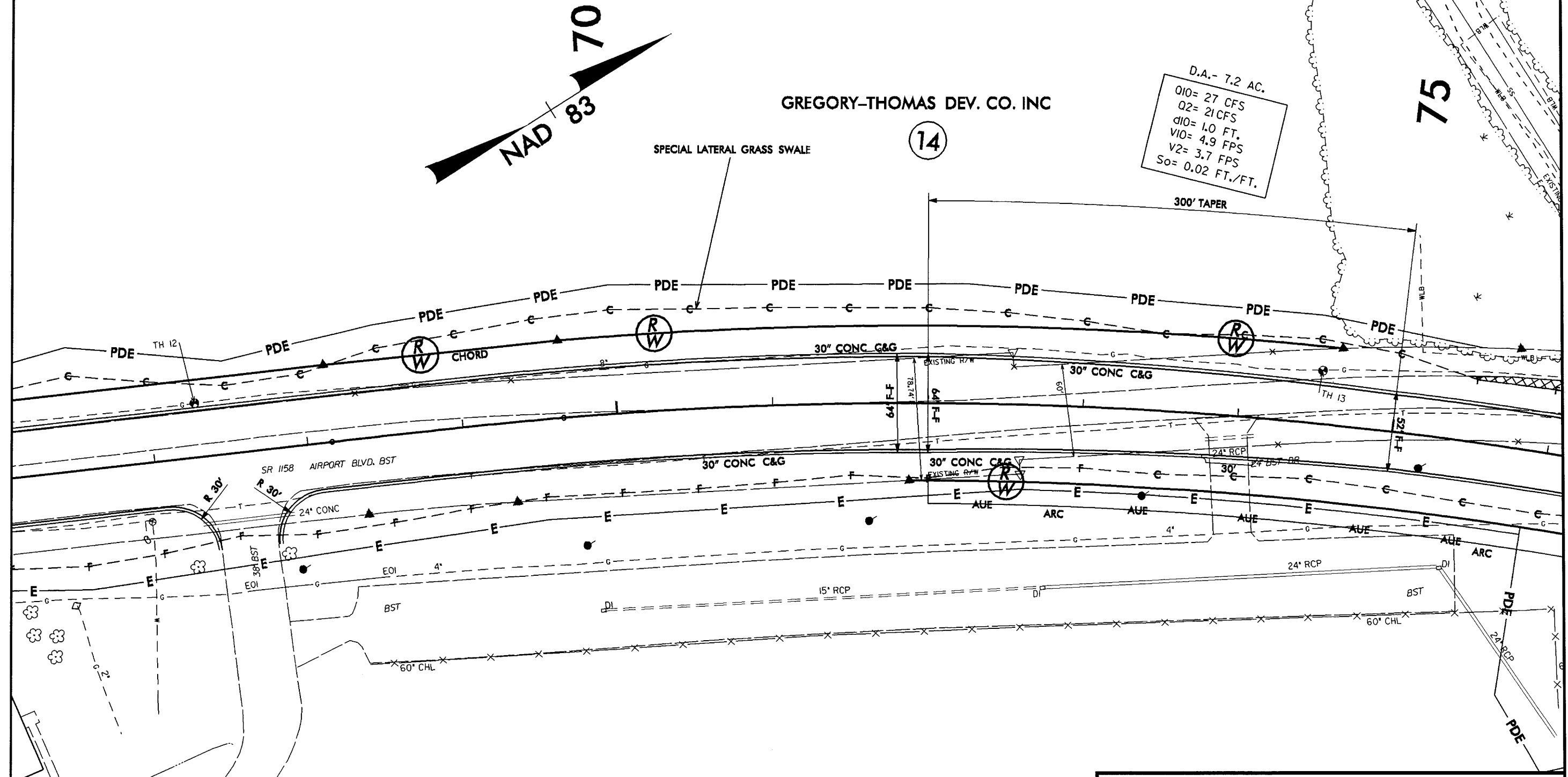
GREGORY-THOMAS DEV. CO. INC

14

D.A. - 7.2 AC.
Q10 = 27 CFS
Q2 = 21 CFS
d10 = 1.0 FT.
V10 = 4.9 FPS
V2 = 3.7 FPS
So = 0.02 FT./FT.

75

SPECIAL LATERAL GRASS SWALE

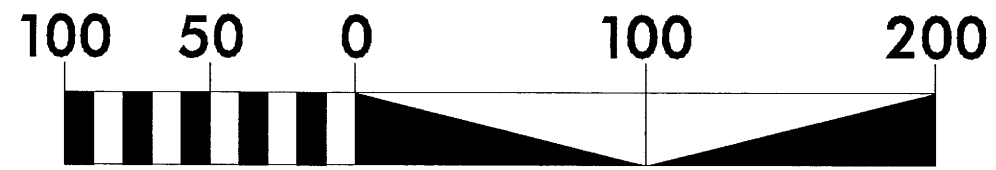


WILSON CHRISTIAN SCHOOL

13

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: JUNE 2005
SHEET 4 OF 8

IMPACTED NEUSE BUFFER ZONES



14
80

85

16



13

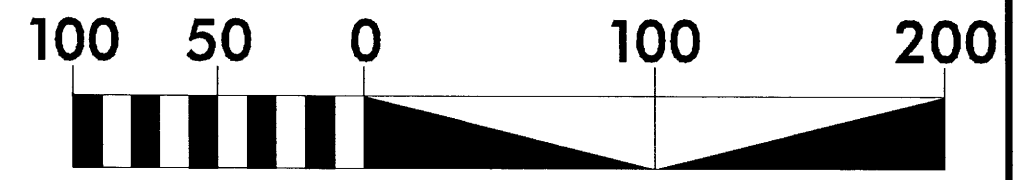
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SITE 2 IMPACTED NEUSE BUFFER ZONES

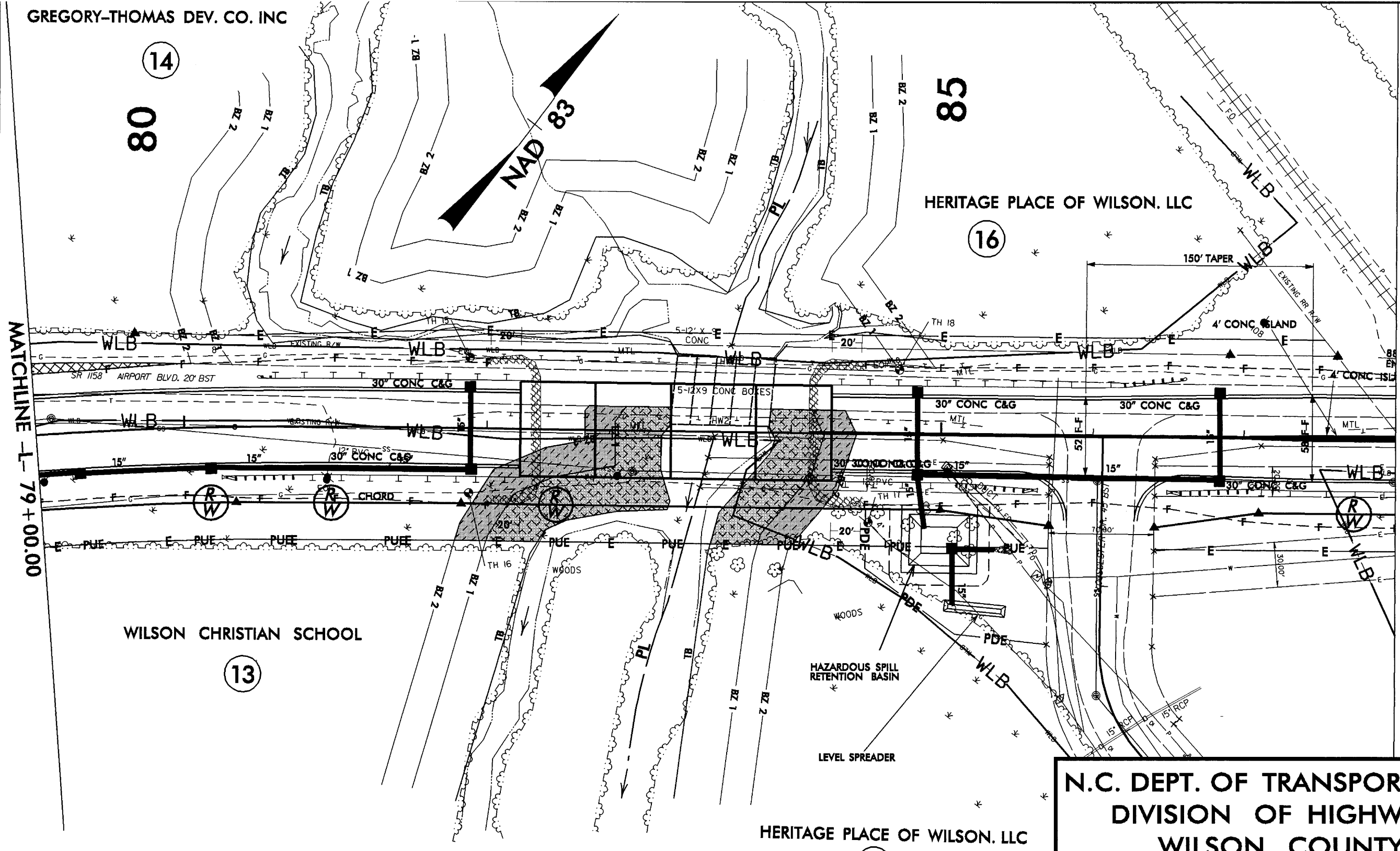
MATCHLINE - L- 79 + 00.00

MATCHLINE - L- 88 + 00.00

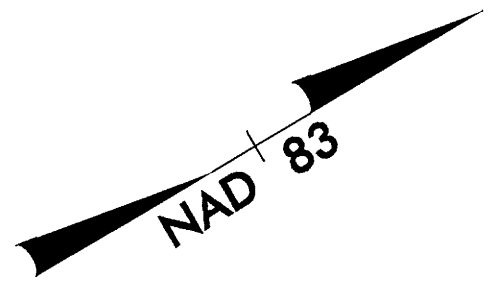
-  ALLOWABLE IMPACTS ZONE 1
-  ALLOWABLE IMPACTS ZONE 2



N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE, 2005
 SHEET 5 OF 8

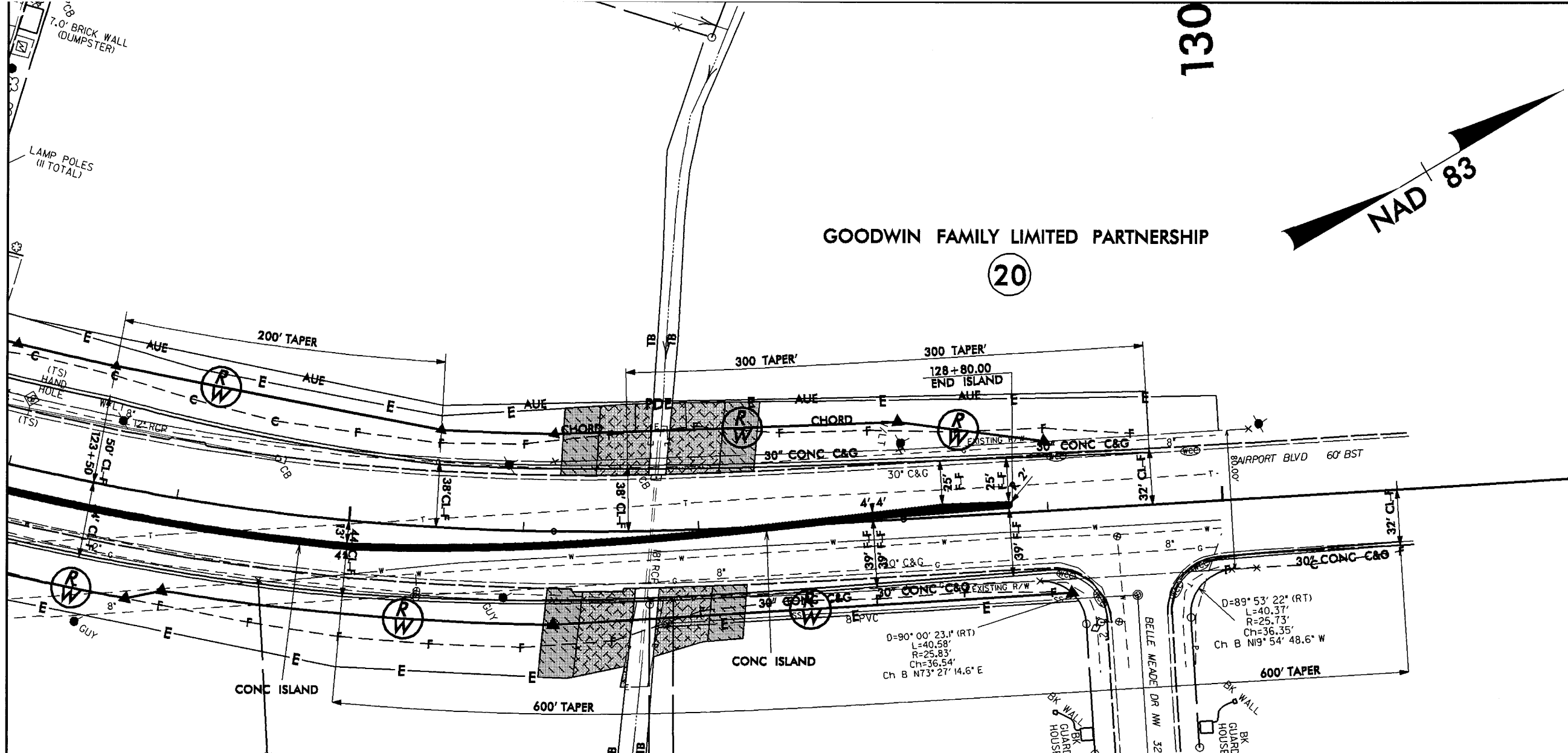


130



GOODWIN FAMILY LIMITED PARTNERSHIP

20



GOODWIN FAMILY LIMITED PARTNERSHIP

20

WOLFTRAP HOLDINGS, LLC AND STOCOR DEVELOPMENT, LLC

20A

BELLE MEADE SECTION NINE OWNERS ASSOC., INC

21

BELLE MEADE SECTION NINE OWNERS ASSOC., INC

21

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

U-3823

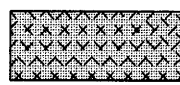
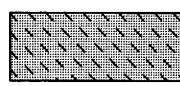
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A

DATE: JUNE 2005

SHEET 6 OF 8

SITE 4 IMPACTED NEUSE BUFFER ZONES



-  ALLOWABLE IMPACTS ZONE 1
-  ALLOWABLE IMPACTS ZONE 2

BUFFER IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size/ Type | IMPACT | | | | | | | | | BUFFER REPLACEMENT | |
|----------|-------------------|---|---------------|-----------------|-------------|-------------|------------|-------------|-------------|------------|-------------|--------------------|--|
| | | | TYPE | | ALLOWABLE | | | MITIGABLE | | | ZONE 1 (SF) | ZONE 2 (SF) | |
| | | | ROAD CROSSING | PARALLEL IMPACT | ZONE 1 (SF) | ZONE 2 (SF) | TOTAL (SF) | ZONE 1 (SF) | ZONE 2 (SF) | TOTAL (SF) | | | |
| 1 | 44+95-45+55 -L- | 2 @ 60" RCP | X | | | | | 0 | 11533 | 7641 | 19174 | | |
| 2 | 77+25-91+55 -L- | 2@50',1@55',1@50' 21" PRESTRESSED CORED SLAB O.A.L. 205' | X | | 7871 | 5029 | 12900 | | | | | | |
| 4 | 126+79 -L- | 18" RCP | X | | 4968 | 3261 | 8229 | | | | | | |
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| | | | | | | | | | | | | | |
| TOTALS: | | | | | 12839 | 8290 | 21129 | 11533 | 7641 | 19174 | 0 | 0 | |

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY
U-3823
SR 1158 (AIRPORT BLVD.) FROM
EAST OF NC 42 TO EAST
OF US 264-A
DATE: AUGUST 2005
SHEET 7 OF 8

**PROPERTY OWNERS
NAMES AND ADDRESSES**

| PARCEL NO. | NAMES | ADDRESSES |
|-------------------|---|--|
| 3 | TEMPIE PIERCE | 1906 CAMBRIDGE DR KINSTON NC 28501 |
| 6 | DAVID R. ELLIS | 4270 WILSON CHRISTIAN RD WILSON NC 27893-9287 |
| 7 | U.T. & MARCIA WILLIAMSON | 1744 AIRPORT BLVD W WILSON NC 27893-9283 |
| 8 | JOHN T PERRY | 2405 HORTON BLVD U-3 WILSON NC 27893 |
| 9 | URAH T. WILLIAMSON, et al | P O BOX 7057 WILSON NC 27895-7057 |
| 13 | WILSON CHRISTIAN SCHOOL | WILSON NC 27893 |
| 14 | GREGORY-THOMAS DEV. CO. INC | 2408 WINDING CREEK DR SW WILSON NC 27893-8615 |
| 15 | HERITAGE PLACE OF WILSON. LLC | PO BOX 3299 WILSON NC 27895 |
| 16 | HERITAGE PLACE OF WILSON. LLC | PO BOX 3299 WILSON NC 27895 |
| 17 | HERITAGE PLACE OF WILSON LLC | PO BOX 3299 WILSON NC 27895 |
| 18 | WILSON RALEIGH ROAD ASSOCIATES | PO BOX 31788 RALEIGH NC 27622-1788 |
| 19 | SAVE MORE INC. | P O BOX 519 SENACA, SC 29679 |
| 20 | GOODWIN FAMILY LIMITED PARTNERSHIP | 3005 FARMINGTON PLACE WILSON NC 27896 |
| 20A | WOLFTRAP HOLDINGS, LLC AND STOCOR DEVELOPMENT, LLC | 3005 FARMINGTON PLACE WILSON NC 27896 |
| 21 | BELLE MEADE SECTION NINE OWNERS ASSOC., INC | 3005 FARMINGTON PLACE WILSON NC 27896 |

**N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 U-3823
 SR 1158 (AIRPORT BLVD.) FROM
 EAST OF NC 42 TO EAST
 OF US 264-A
 DATE: JUNE 2005
 SHEET 8 OF 8**

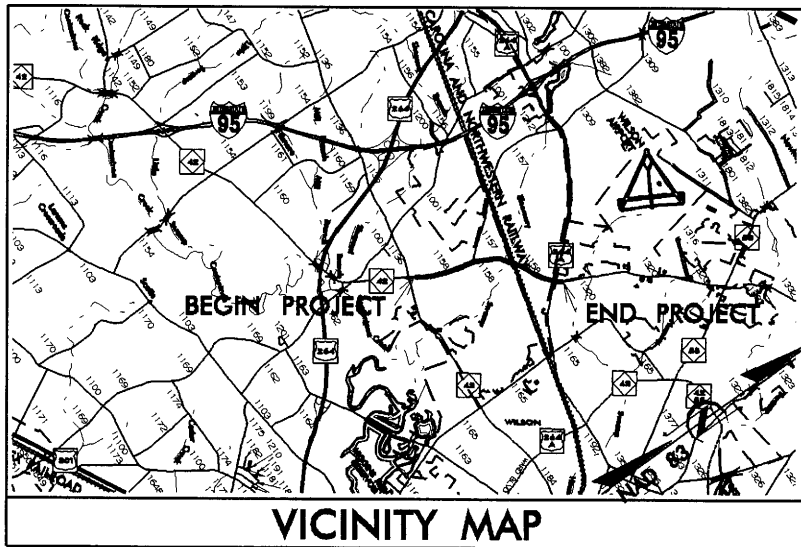
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

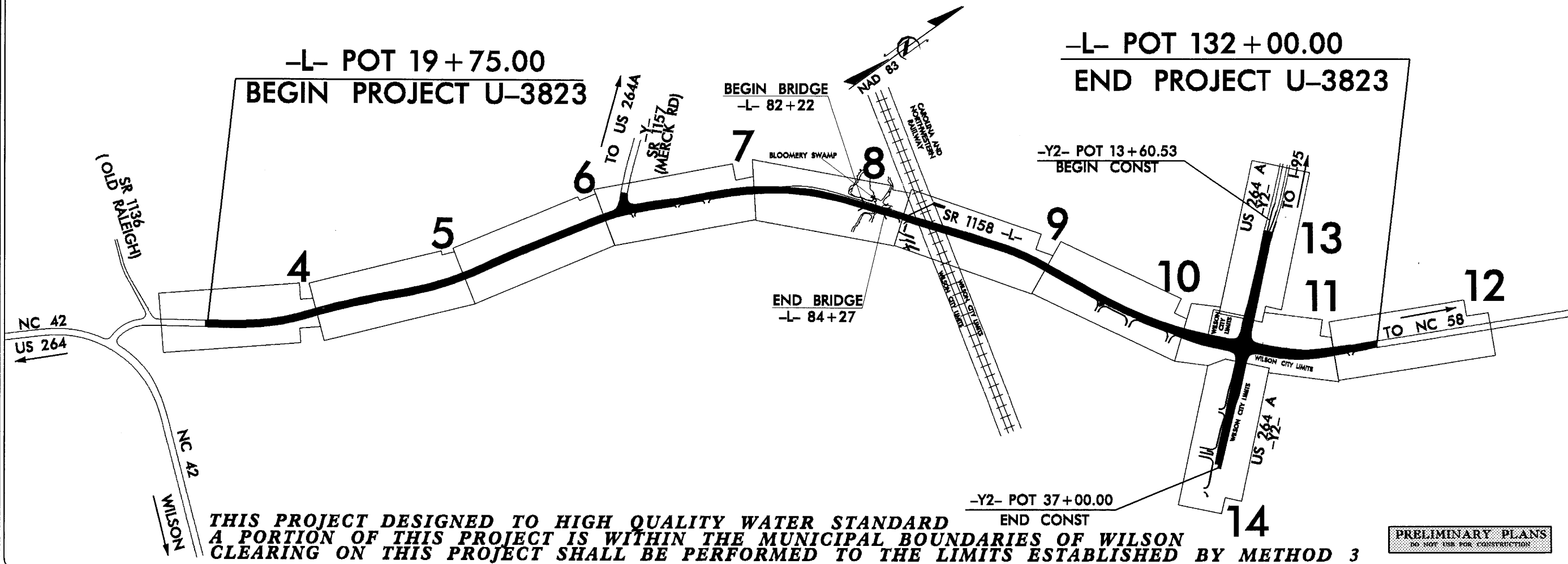
LOCATION: SR 1158 (AIRPORT BLVD.) FROM EAST OF NC 42 TO EAST OF US 264-A

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CURB & GUTTER, TRAFFIC SIGNAL AND STRUCTURE.

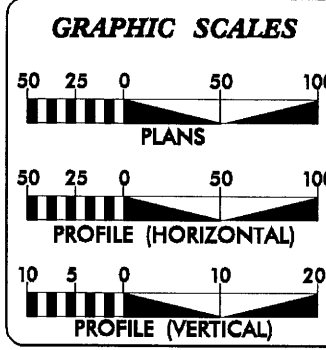
| | | | |
|-----------------|-----------------------------|-------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | U-3823 | 1 | |
| STATE PROJ. NO. | P.A. PROJ. NO. | DESCRIPTION | |
| 34981.1.1 | STP-1158(2) | PE | |
| 34981.2.3 | STP-1158(2) | RW&UTILITY | |
| | | | |
| | | | |
| | | | |



CONTRACT: C201301 TIP PROJECT: U-3823



29-AUG-2005 09:29
d:\r\d\proj\at\cd01\c738\EE3A
dethridge



DESIGN DATA

ADT 2000 = 4,500
ADT 2025 = 22,000

DHV = 11 %
D = 55 %
T = 3 % *
V = 50 MPH
* TTST 1 % DUAL 2 %

FUNCTIONAL CLASSIFICATION
RURAL MINOR COLLECTOR

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT U-3823 = 2.087 Miles
LENGTH OF STRUCTURE TIP PROJECT U-3823 = 0.039 Miles
TOTAL LENGTH OF TIP PROJECT U-3823 = 2.126 Miles

Prepared in the Office of:
DIVISION OF HIGHWAYS
Division 4 DDC
509 Ward Blvd., Wilson NC, 27895

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 30, 2004

LETTING DATE:

R. E. GREENE, JR., PE
PROJECT ENGINEER

J. C. CAULEY, PLS
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE

P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE

P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE DESIGN ENGINEER

P.E.

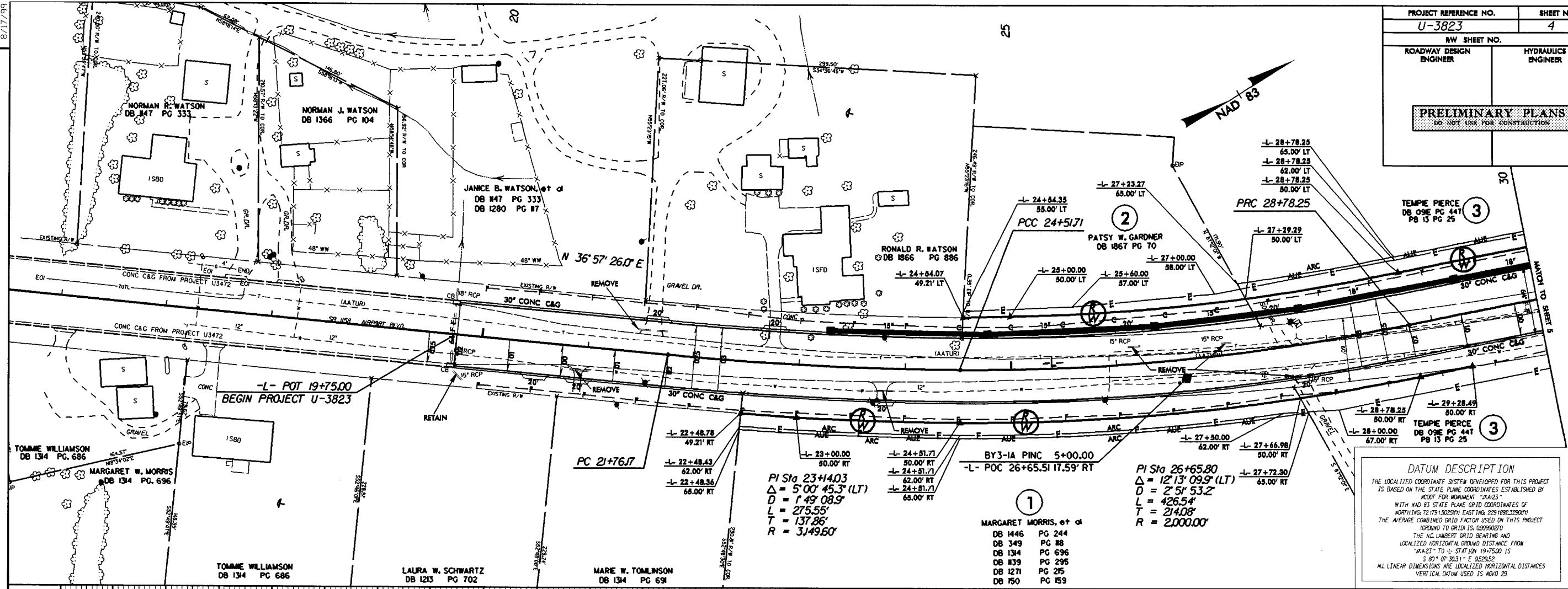
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED DIVISION ADMINISTRATOR

DATE

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

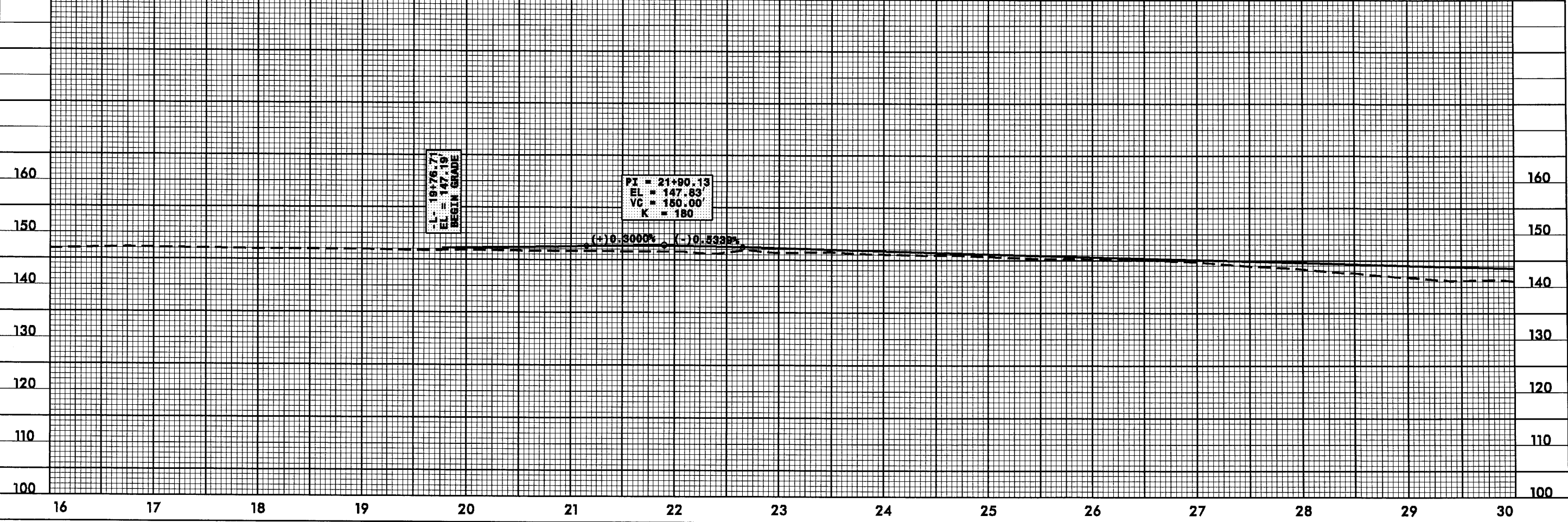
8/17/99



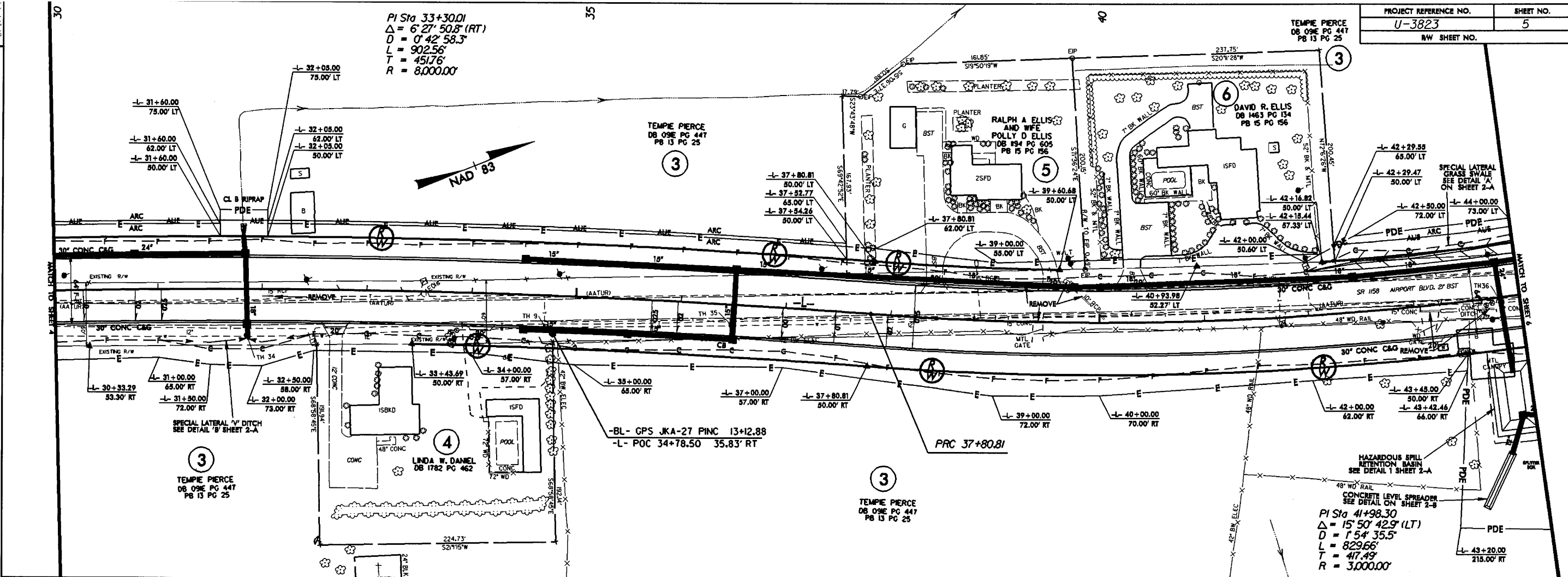
DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY MOST FOR MONUMENT "M-23" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 7217515025(1) EASTING: 2291803200(1) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99990270 THE NAD 83 STATE PLANE GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "M-23" TO -L- STATION 19+75.00 IS S 80° 03' 31" E 9529.52' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS MVD 29

605 STATIONS AND OFFSETS ADDED FOR RW AND EASEMENTS

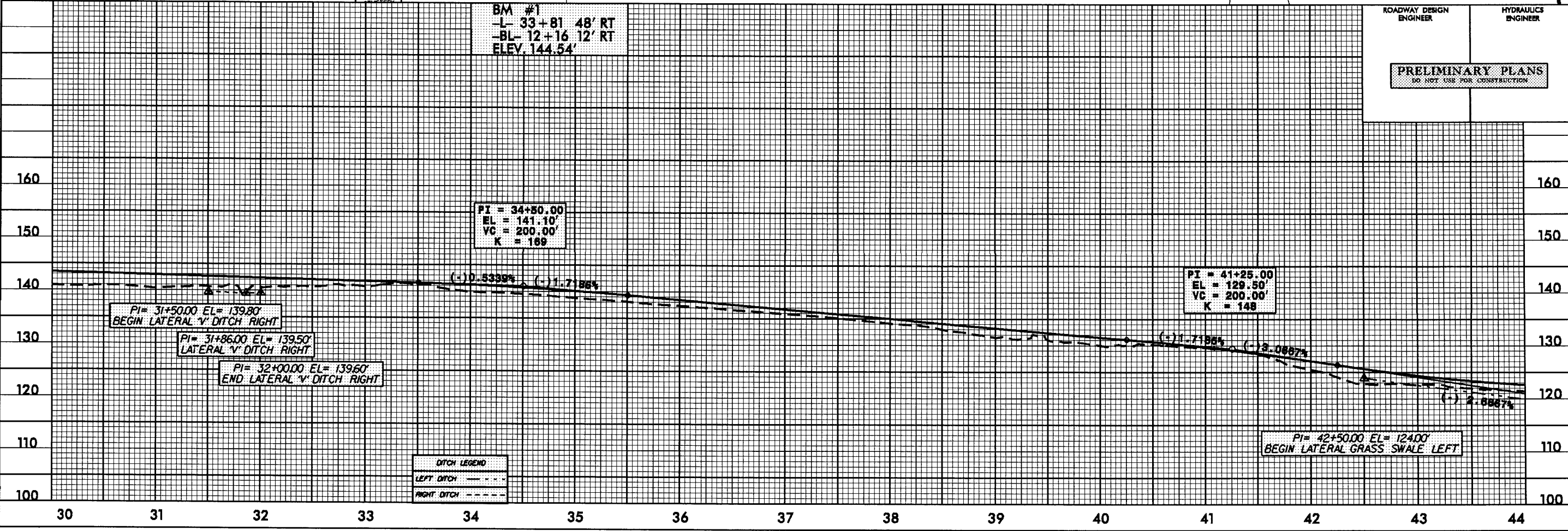
29-AUG-2005 09:32
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 20001513823.psh_04.dcd
 20001513823.dwg



PI Sta 33+30.01
 $\Delta = 6' 27" 50.8' (RT)$
 $D = 0' 42" 58.3'$
 $L = 902.56'$
 $T = 451.76'$
 $R = 8,000.00'$



REVISIONS
 605 STATIONS AND OFFSETS ADDED FOR RW AND EASEMENTS



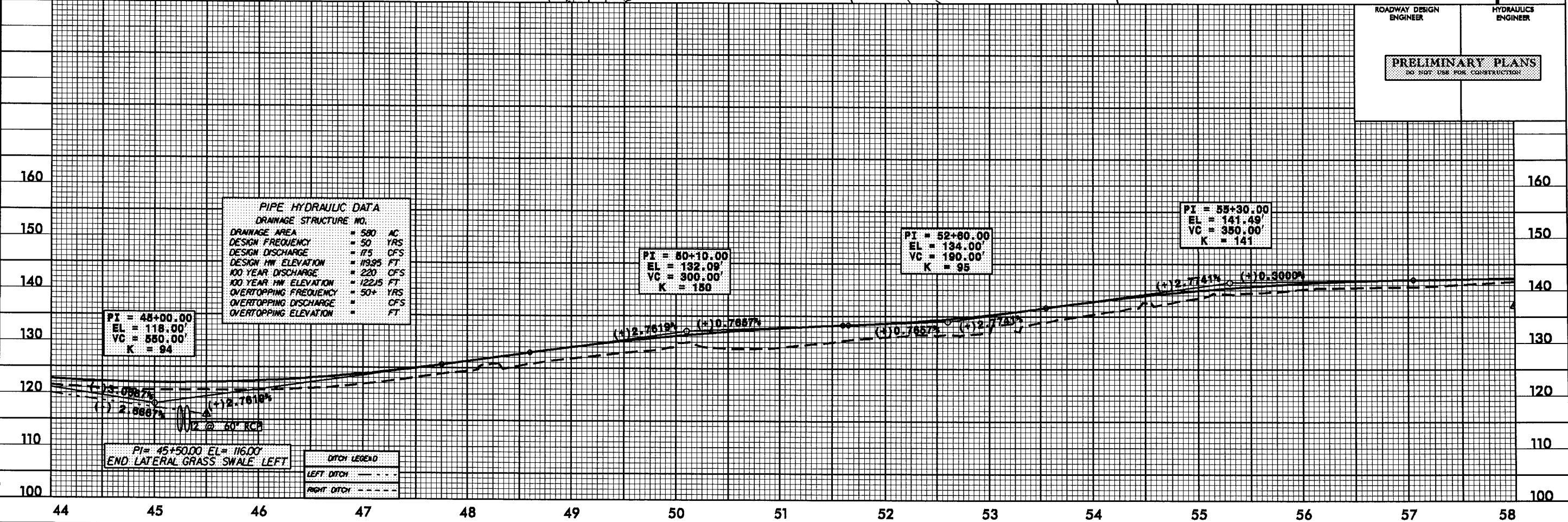
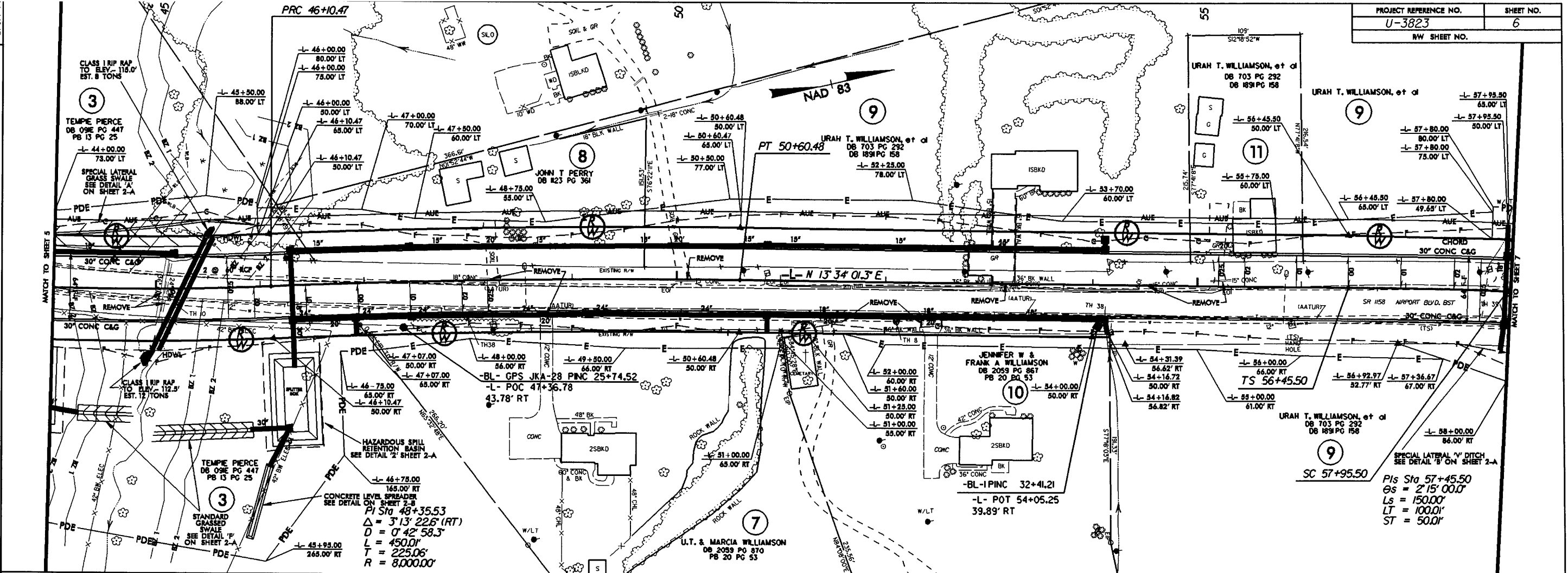
DITCH LEGEND

| | |
|-------|-------------|
| --- | LEFT DITCH |
| - - - | RIGHT DITCH |

ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER
PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

8/17/99
 29-AUG-2005 09:34
 DAY: d:\yrcdy\yrcdy\0029\0029\0029\0023-ph_05.ddc
 d:\yrcdy\yrcdy\0029\0029\0029\0023-ph_05.ddc
 d:\yrcdy\yrcdy\0029\0029\0029\0023-ph_05.ddc

REVISIONS: 605 PROPERTY LINES REVISED FOR PARCELS 7,9,10&11; STATIONS AND OFFSETS ADDED FOR RW & EASEMENTS



PIPE HYDRAULIC DATA
 DRAINAGE STRUCTURE NO.

| | |
|-----------------------|-------------|
| DRAINAGE AREA | = 580 AC |
| DESIGN FREQUENCY | = 50 YRS |
| DESIGN DISCHARGE | = 175 CFS |
| DESIGN HW ELEVATION | = 119.95 FT |
| 100 YEAR DISCHARGE | = 220 CFS |
| 100 YEAR HW ELEVATION | = 122.15 FT |
| OVERTOPPING FREQUENCY | = 50+ YRS |
| OVERTOPPING DISCHARGE | = CFS |
| OVERTOPPING ELEVATION | = FT |

PI = 45+50.00 EL = 116.00
 END LATERAL GRASS SWALE LEFT

DITCH LEGEND

| | |
|-------------|-----|
| LEFT DITCH | --- |
| RIGHT DITCH | --- |

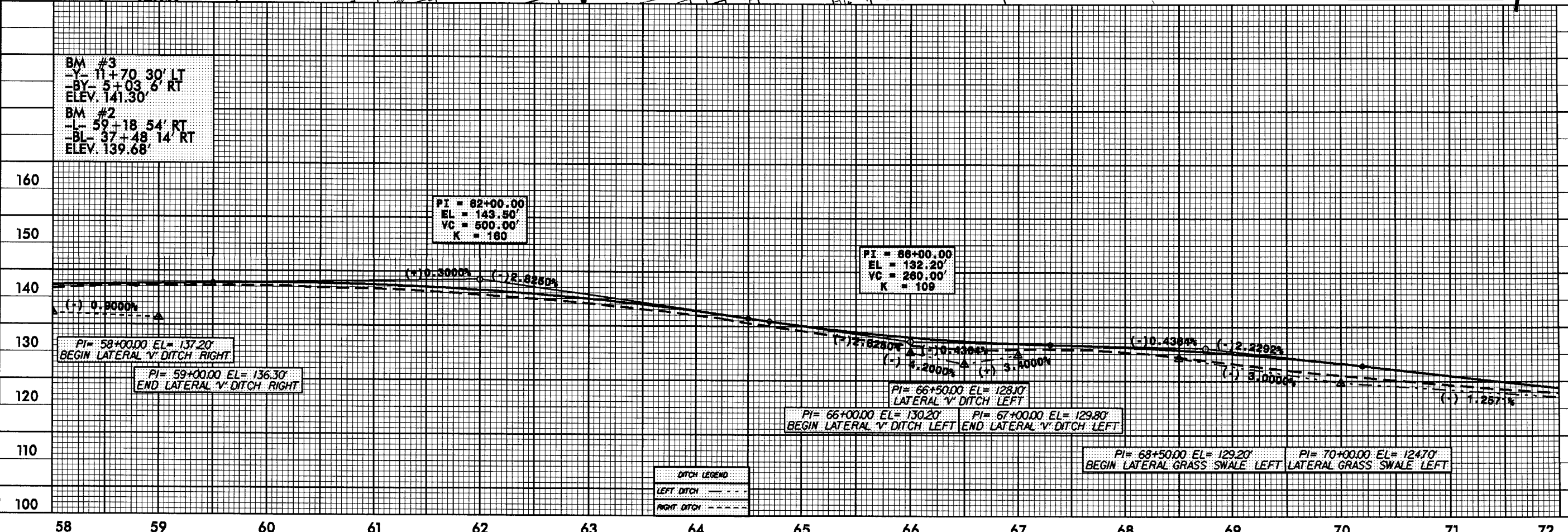
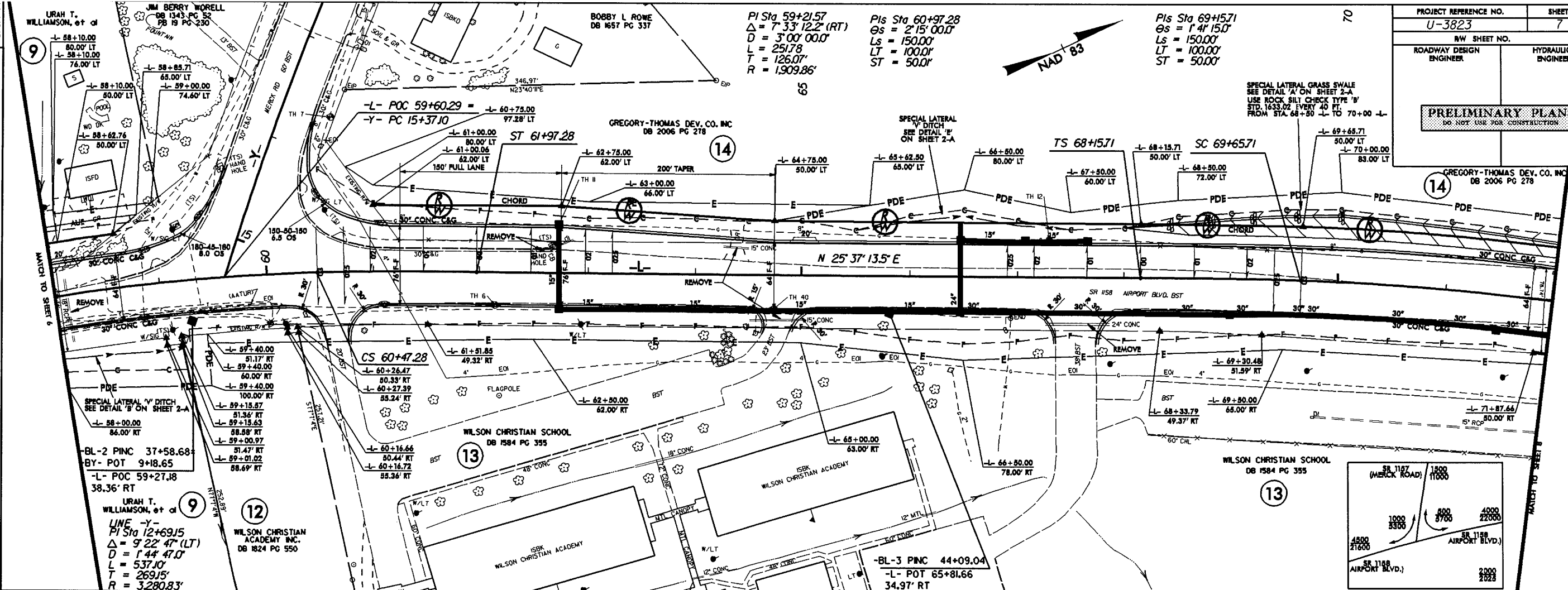
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 8/17/05

ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER
PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

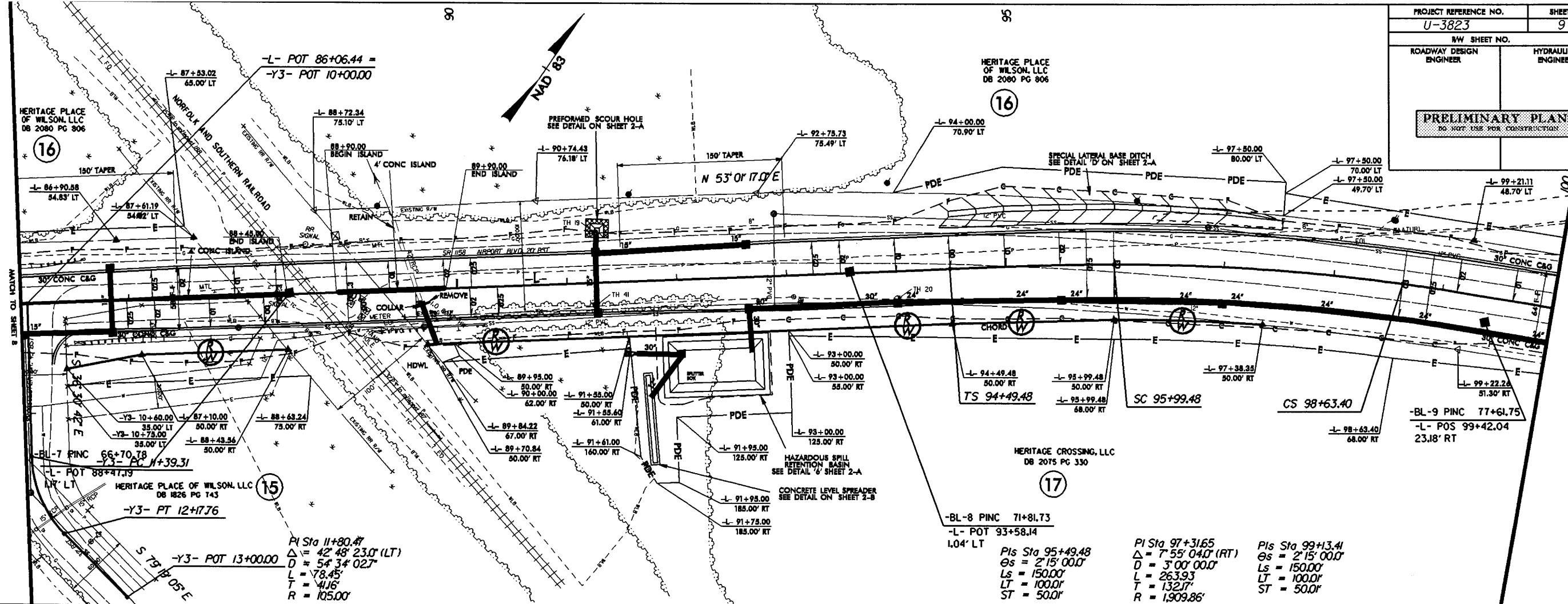
8/17/09

| | |
|---|---------------------|
| PROJECT REFERENCE NO. U-3823 | SHEET NO. 7 |
| R/W SHEET NO. | HYDRAULICS ENGINEER |
| ROADWAY DESIGN ENGINEER | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

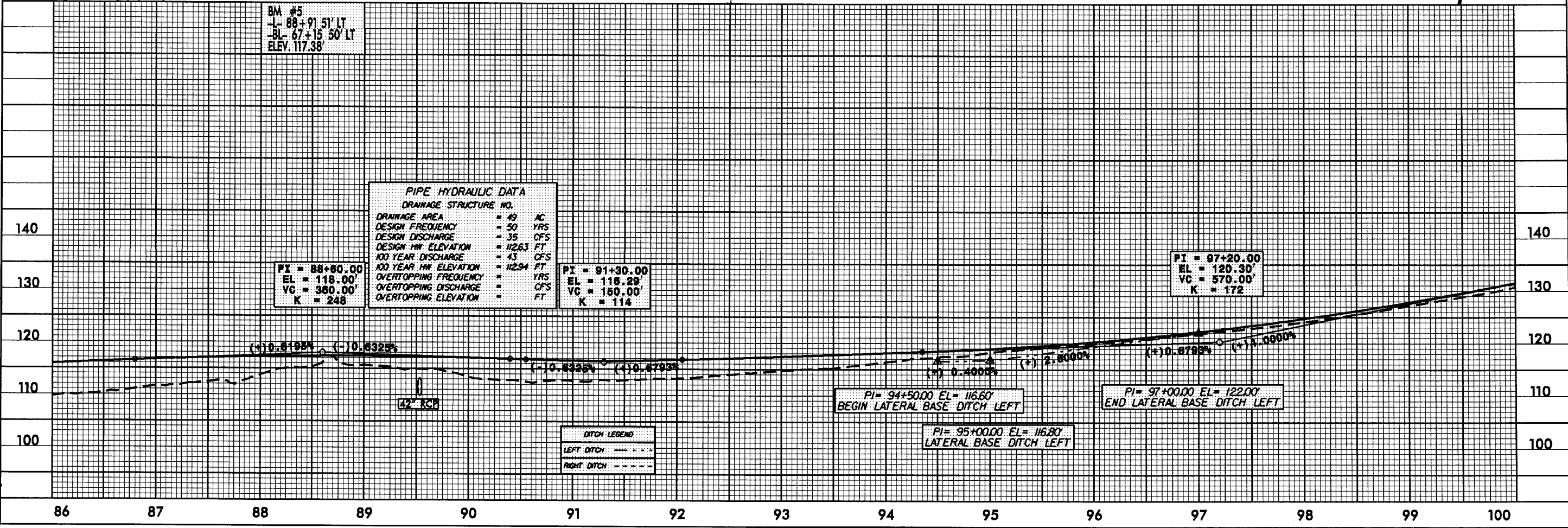
605 PROPERTY OWNERS NAMES REVISED FOR PARCEL 9; STATIONS AND OFFSETS ADDED FOR R/W AND EASEMENTS



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REVISIONS 605 PROPERTY OWNERS NAMES REVISED FOR PARCEL 16&17; STATIONS AND OFFSETS ADDED FOR RW AND EASEMENTS



PIPE HYDRAULIC DATA
 DRAINAGE STRUCTURE NO. _____

| | |
|-----------------------|------------|
| DRAINAGE AREA | = 49 AC |
| DESIGN FREQUENCY | = 50 YRS |
| DESIGN DISCHARGE | = 35 CFS |
| DESIGN HW ELEVATION | = 11263 FT |
| 100 YEAR DISCHARGE | = 43 CFS |
| 100 YEAR HW ELEVATION | = 11294 FT |
| OVERTOPPING FREQUENCY | = YRS |
| OVERTOPPING DISCHARGE | = CFS |
| OVERTOPPING ELEVATION | = FT |

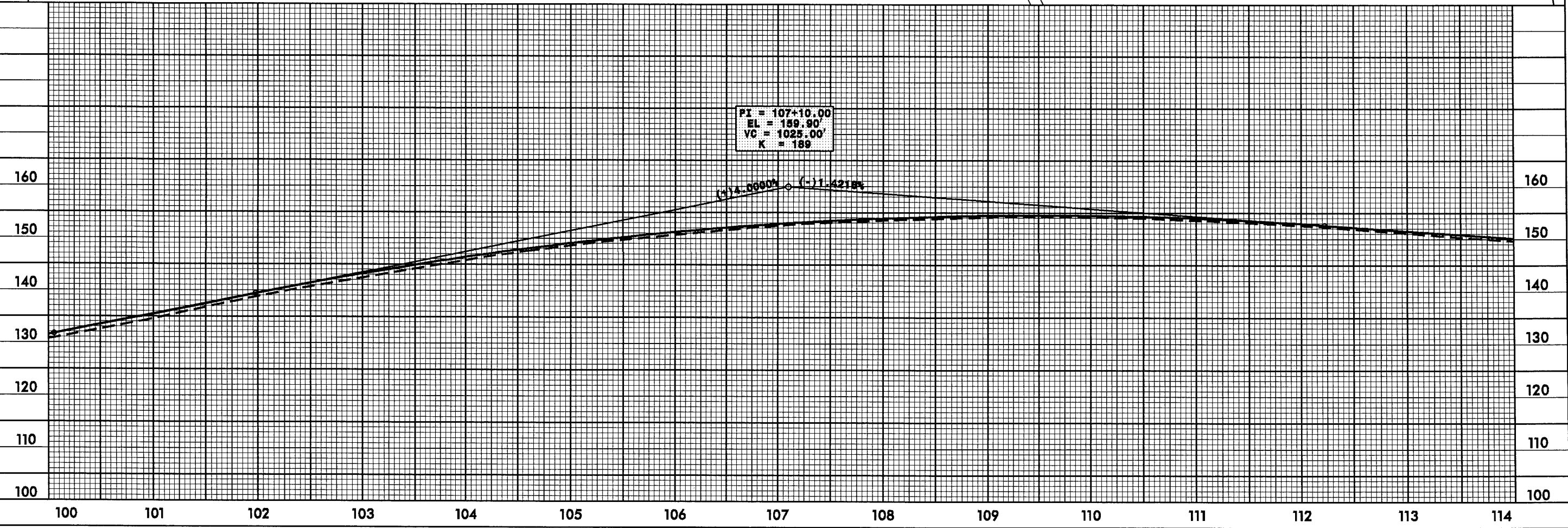
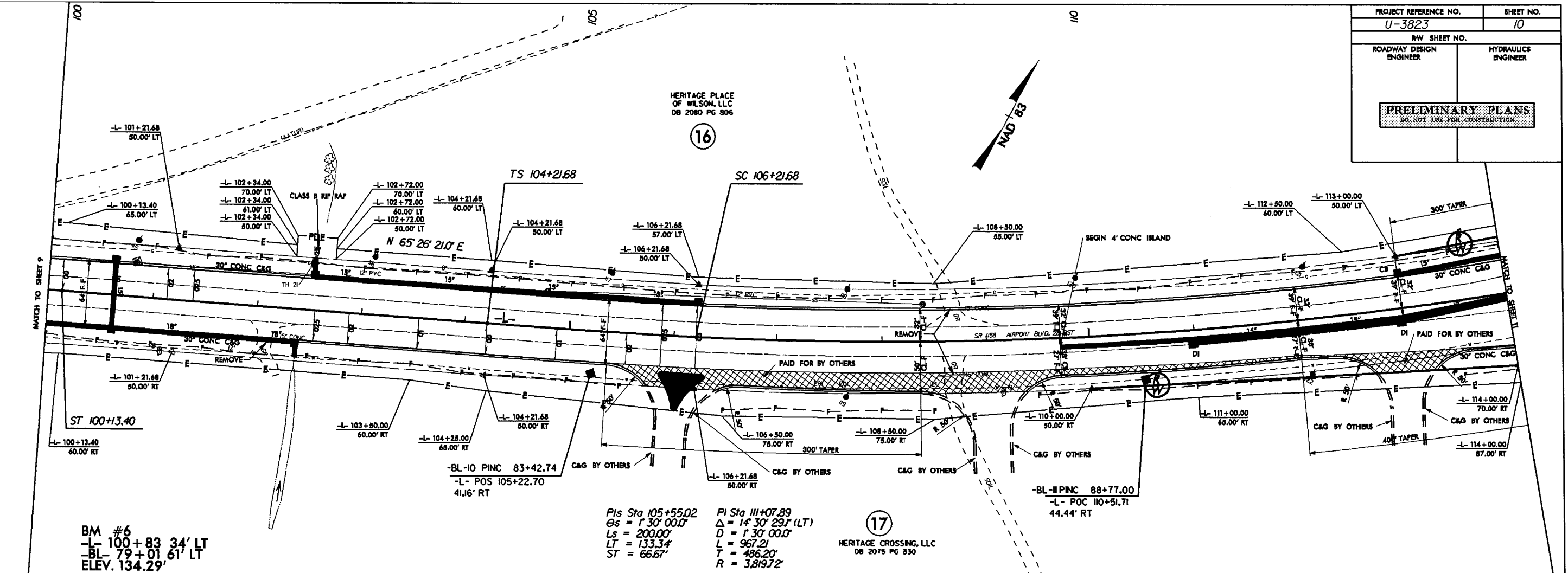
DITCH LEGEND

| | |
|-------------|---------|
| LEFT DITCH | --- |
| RIGHT DITCH | - - - - |

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 8/17/99

| | |
|---|---------------------|
| PROJECT REFERENCE NO. U-3823 | SHEET NO. 10 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

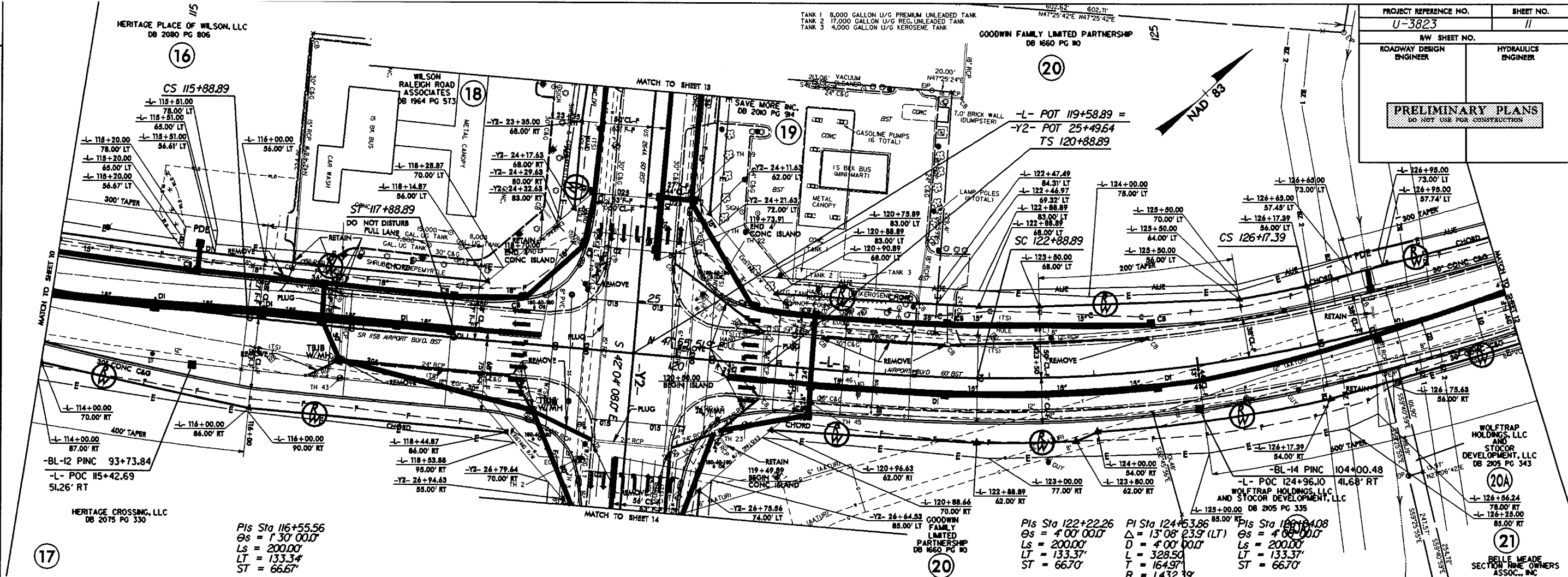
REVISIONS
 605 PROPERTY OWNERS NAMES REVISED FOR PARCEL 16&17; STATIONS AND OFFSETS ADDED FOR RW AND EASEMENTS



8/17/99
 28-AUG-2005 09:44
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 10.dwg

REVISIONS
 605 PROPERTY OWNERS NAMES REVISED FOR PARCEL 16,17,19,20&21; REVISED PROPERTY LINE BETWEEN 19&20, 20&20A AND 20&21;
 TOPO ADDED TO PARCEL 19; RW & TCE REVISED FROM -L- 123+80 TO -L- 129+10.80; STATIONS AND OFFSETS ADDED FOR RW AND EASEMENTS

8/17/99



| | |
|--|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-3823 | 11 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

HERITAGE CROSSING, LLC
 DB 2075 PG 330

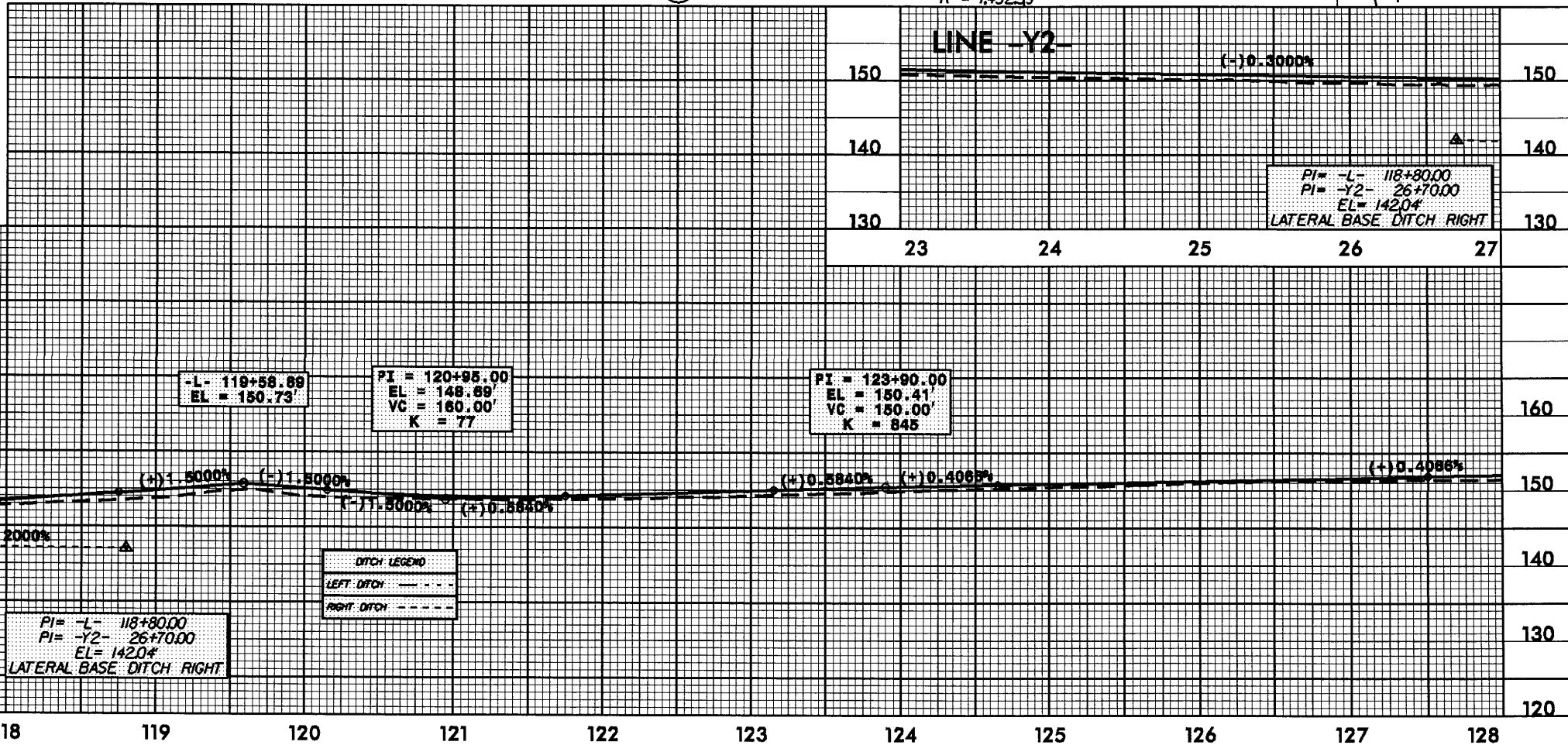
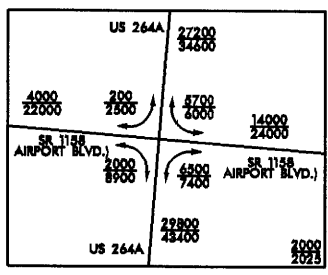
$PIs Sta 116+55.56$
 $\theta s = 1'30''00.0''$
 $Ls = 200.00'$
 $LT = 133.37'$
 $ST = 66.67'$

$PIs Sta 122+22.26$
 $\theta s = 4'00''00.0''$
 $Ls = 200.00'$
 $LT = 133.37'$
 $ST = 66.70'$

$PI Sta 124+53.86$
 $\Delta = 13'08''23.9'' (LT)$
 $\theta s = 4'00''00.0''$
 $D = 4'00''00.0''$
 $L = 328.50'$
 $LT = 133.37'$
 $T = 164.97'$
 $R = 1,432.39'$

$PIs Sta 126+17.99$
 $\theta s = 4'00''00.0''$
 $Ls = 200.00'$
 $LT = 133.37'$
 $ST = 66.70'$

BM #8
 -L- 125+41.41' RT
 -BL- 104+47.4' RT
 ELEV. 154.19'



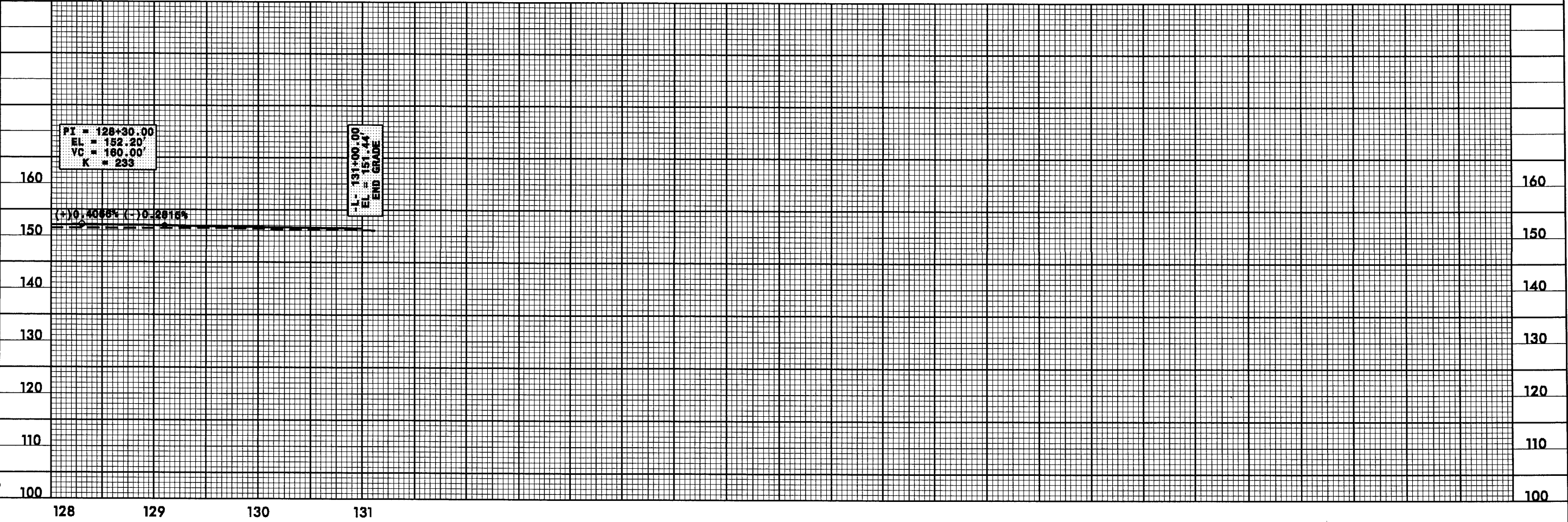
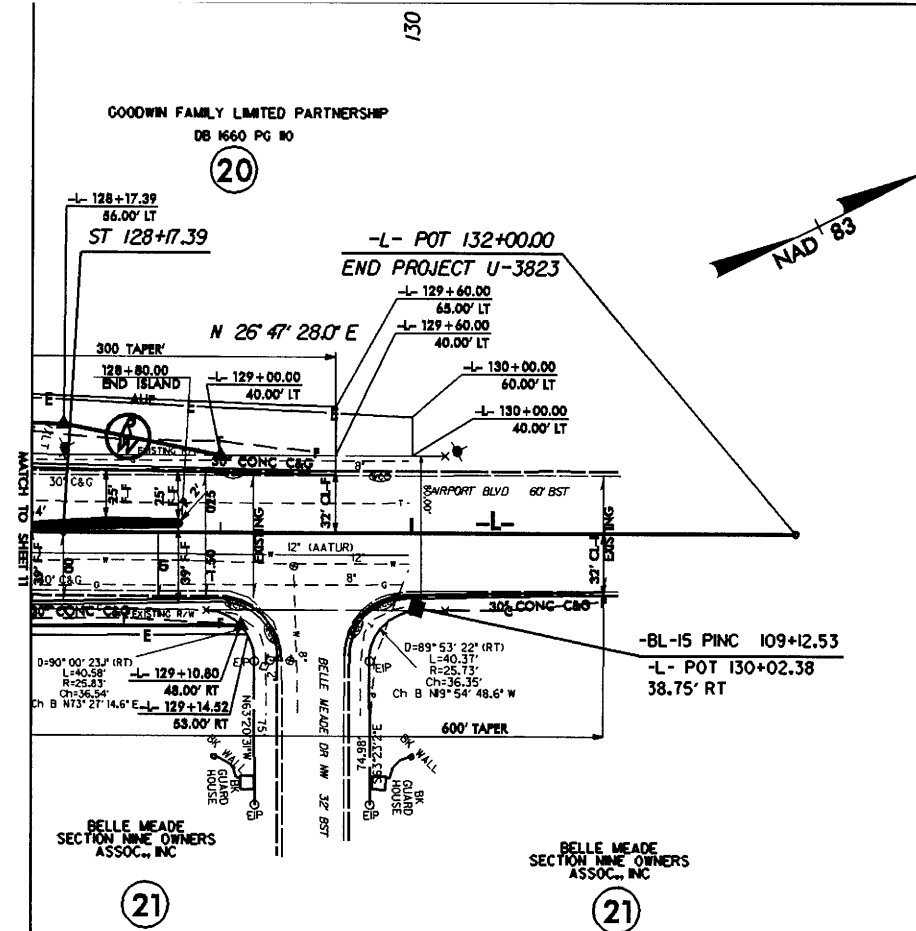
29-AUG-2005 09:47
 29-AUG-2005 09:47
 29-AUG-2005 09:47

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS
605 RAW & TCE REVISED FROM -L- 123+80 TO -L- 129+10.80 RT AND -L- 128+17.39 TO -L- 129+00 LT; STATIONS AND OFFSETS ADDED FOR RW AND EASEMENTS

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U:\3823\12.dgn
U:\3823\12.dgn
U:\3823\12.dgn
U:\3823\12.dgn

8/17/99



PI = 128+30.00
EL = 152.20
VC = 180.00
K = 233

-L- 131+00.00
EL = 151.44
END GRADE

(+)0.4088% (-)0.2815%

128 129 130 131 160 150 140 130 120 110 100

ADKIN FAMILY LIMITED PARTNERSHIPS
DB 1638 PG 221

THE VESTER FAMILY LLC
DB 2007 PG 798

BRADLEY A. COX
DB 1787 PG 875

TRINITY BAPTIST CHURCH
DB 184 PG 451

GOODWIN FAMILY LIMITED PARTNERSHIP

HERITAGE PLACE OF WILSON, LLC
DB 2080 PG 806

THE VESTER FAMILY LLC
DB 2007 PG 778

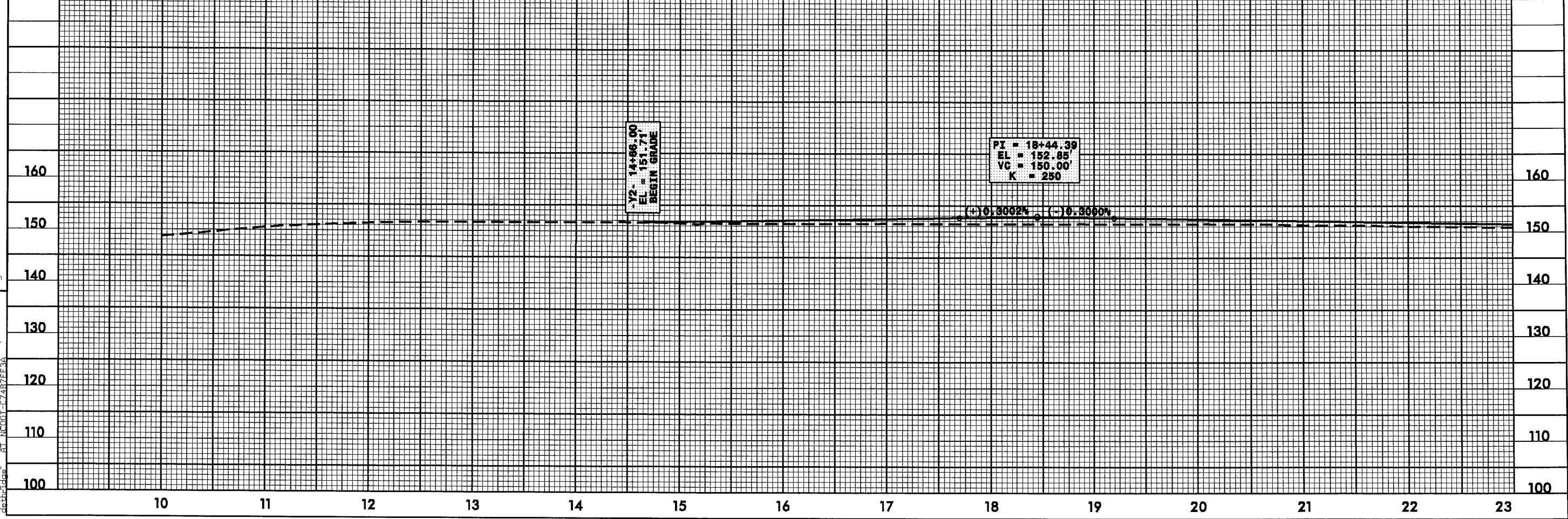
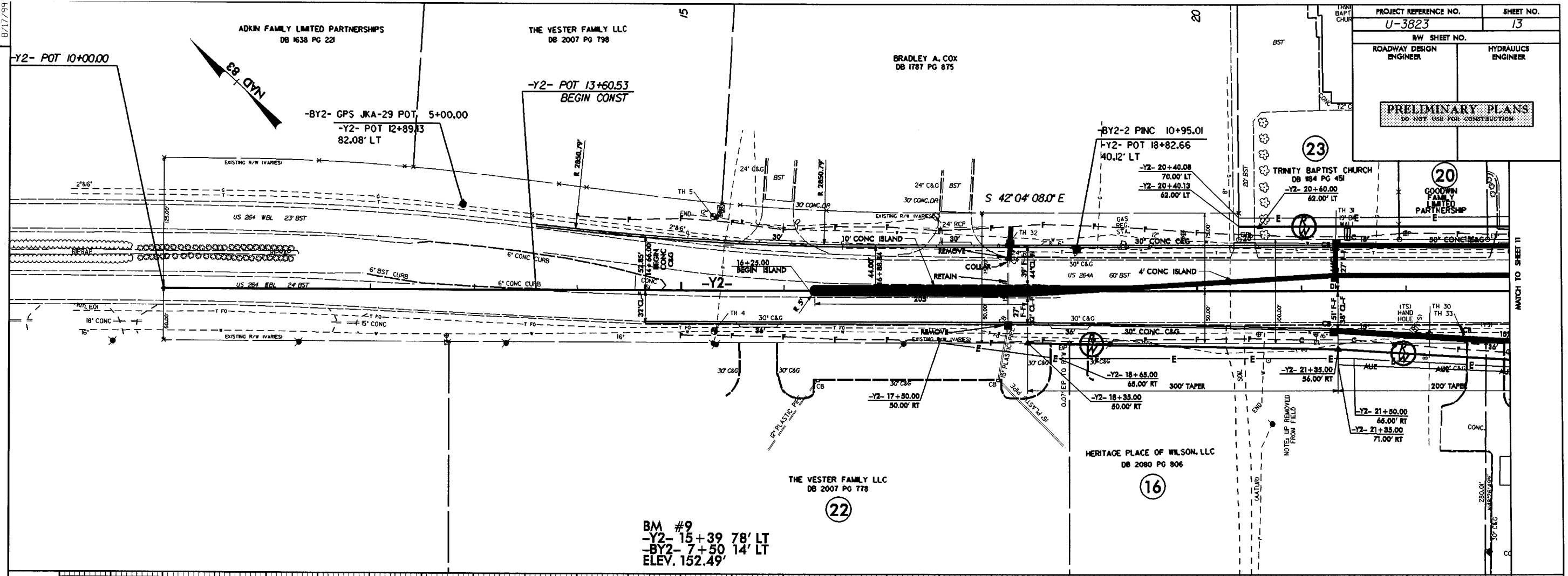
BM #9
-Y2- 15+39 78' LT
-BY2- 7+50 14' LT
ELEV. 152.49'

PI = 18+44.39
EL = 152.85'
VC = 150.00'
K = 250

-Y2- 14+86.00
EL = 151.71
BEGIN GRADE

REVISIONS
 603 PDE & TCE REVISED ON PARCEL 22; REVISED PROPERTY OWNER OF PARCEL 16 ; STATIONS AND OFFSETS ADDED FOR R/W AND EASEMENTS

29-AUG-2005 09:51
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 13.dwg

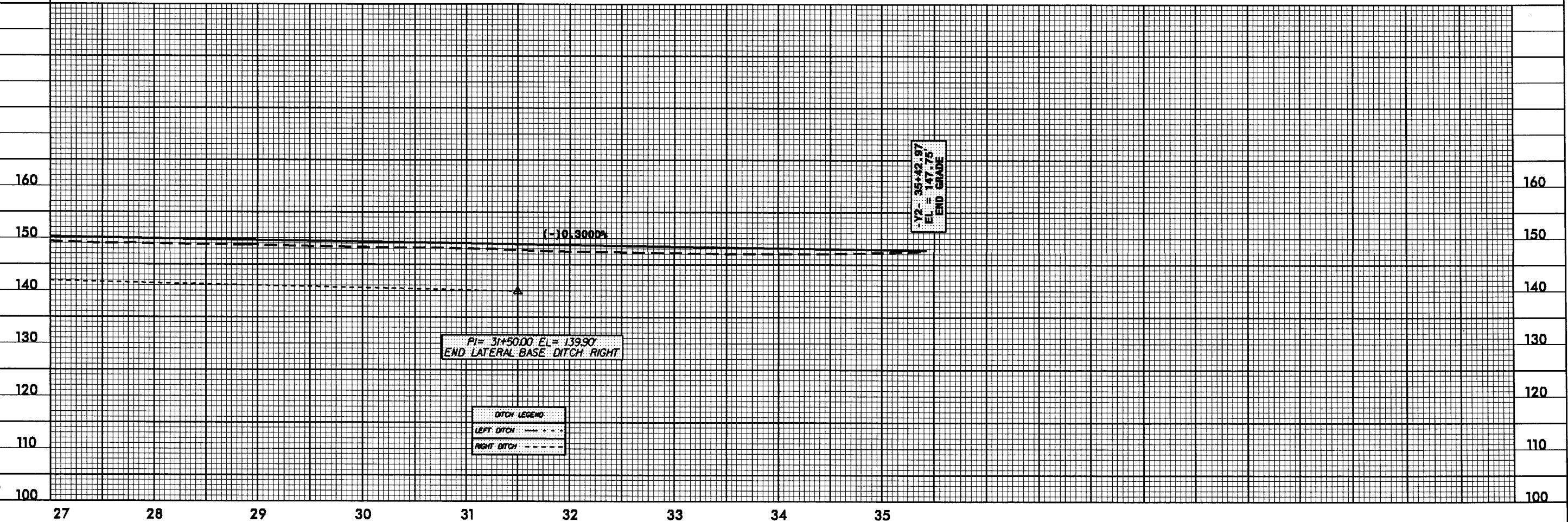
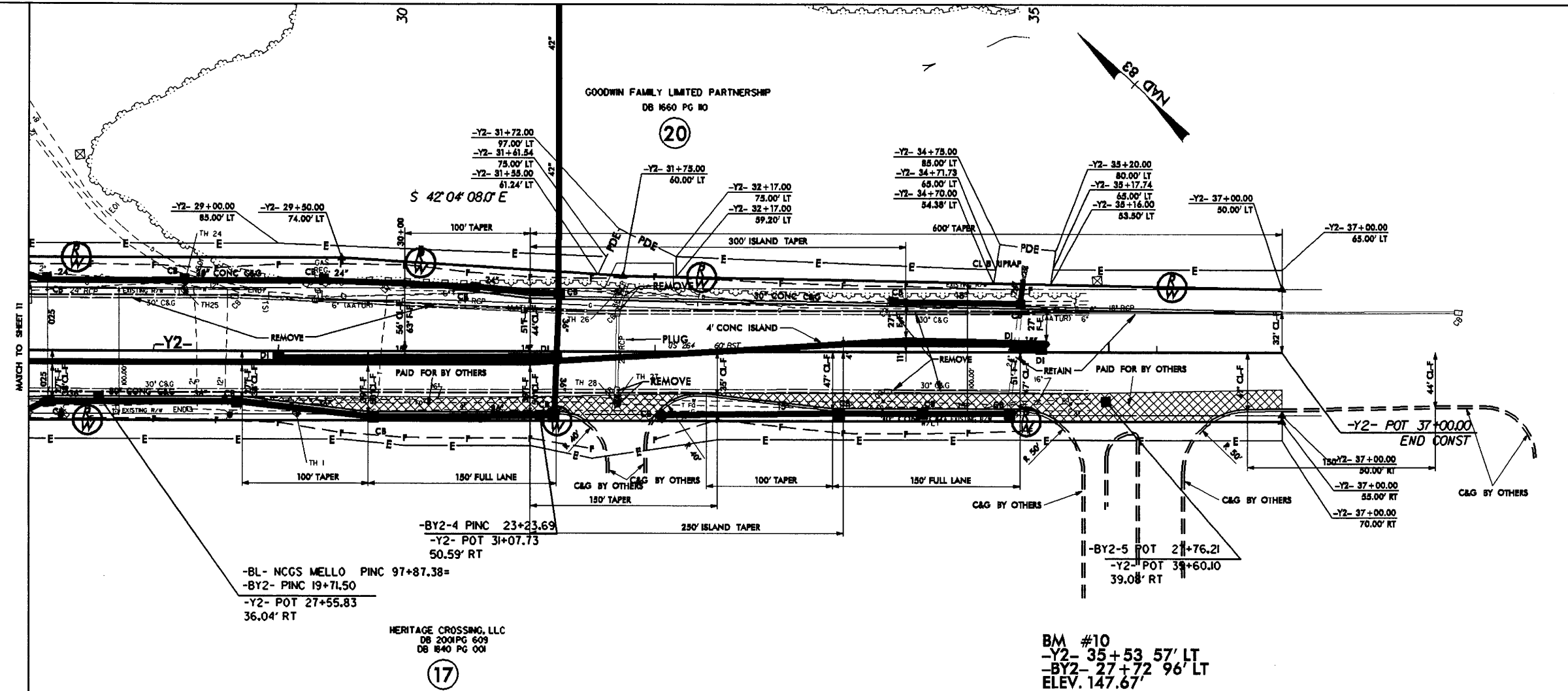


| | |
|--|------------------------|
| PROJECT REFERENCE NO. U-3823 | SHEET NO. 14 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS <small>DO NOT USE FOR CONSTRUCTION</small> | |

8/17/99

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REVISIONS
605 STATIONS AND OFFSETS ADDED FOR RW AND EASEMENTS



C&G BY OTHERS

DITCH LEGEND
 LEFT DITCH ---
 RIGHT DITCH - - -