

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

January 24, 2006

MEMORANDUM TO:

Mr. C. E. Lassiter, Jr., P.E.

Division 2 Engineer

FROM:

Philip S. Harris, III, P.E.

Natural Environment Unit Head

Project Development and

Environmental Analysis Branch

SUBJECT:

Beaufort County; Improvements to US 17 over the Tar River;

State Project No. 8.T150601; T.I.P. No. R-2510

Attached is the U. S. Army Corps of Engineers Individual 404 Permit and the DWQ 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

cc:

Mr. Art McMillan, P.E.

Mr. Jay Bennett, P.E.

Mr. David Chang, P.E.

Mr. Randy Garris, P.E.

Mr. Greg Perfetti, P.E.

Mr. Mark Staley

Mr. John F. Sullivan, III, FHWA

Mr. Omar Sultan

Mr. Jay Johnson, Division 2 Environmental Officer

1598 Mail Service Center Raleigh NC 27699-1598 TELEPHONE: 919-733-3141 FAX: 919-733-9794

WEBSITE: WWW.DOT.ORG

PROJECT COMMITMENTS

Beaufort County
Improvements to US 17
Over the Tar River
Federal Aid Project MAF-75-3 (26)
State Project 8.T150601
TIP No. R-2510

In addition to the standard Nationwide Permit # 6 Conditions, the General Nationwide Permit Conditions, Section 404 Only Conditions, Regional Conditions, State Consistency Conditions, General Certification Conditions, Individual Section 404 Special Conditions and the Section 401 Conditions of Certification, the following Special Commitments have been agreed to by NCDOT:

Commitments Developed During Project Planning:

Hydraulics Unit, Division 2, REU

"High Quality Waters (HQW) Erosion Control Guidelines" will be adhered to throughout construction.

Hydraulics Unit, Division 2

NCDOT's "Stream Crossing Guidelines for Anadromous Fish Passage" will be adhered to for this project.

Division 2

Precautionary Guidelines for General Construction in Areas Which May Be Used by the West Indian Manatee in North Carolina will be utilized for this project.

Commitments Developed During Permitting:

PDEA

Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed project, the permittee shall conduct another survey for the federally threatened sensitive joint-vetch (*Aeschynomene virginica*) during its flowering season (mid July –October). Results of that survey shall be forwarded to USFWS for review. The USFWS shall submit their findings in writing to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager.

NCDOT biologists completed this survey on August 22, 2005 and the results were forwarded to the USFWS on November 28, 2005.

Division 2

Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed project, the permittee shall forward the latest version of project construction drawings to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings will be acceptable.

PDEA, Division 2, Roadway Design, Hydraulics Unit

NCDOT understands that no construction will occur on sections R-2510B and R-2510C until final design and resulting impacts have been approved by all regulatory agencies.

Green Sheet R-2510 January 2006

Division 2

The permittee shall advise the Corps in writing at least two weeks prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.

Division 2

A construction moratorium for anadromous fish from February 15 through June 15 will be adhered to for in-water work.

Division 2

The permittee will report any violation of these conditions or violations of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act in writing to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager, within 24 hours of the permittee's discovery of the violation.

Division 2

The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall provide the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, with a copy of the final plans at least two weeks prior to the preconstruction meeting along with a description of any changes that have been made to the project's design, construction methodology or construction timeframe. The permittee shall schedule the preconstruction meeting for a time when the Corps of Engineers and North Carolina Division of Water Quality (NCDWQ) Project Managers can attend. The permittee shall invite the Corps and NCDWQ Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedule and participate in the required meeting.

PDEA

Compensatory mitigation for the unavoidable impacts to 8.53 acres of riverine wetlands, 3.88 acres of non-riverine wetlands, and 4,244 linear feet of perennial stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated August 4, 2005 from William D. Gilmore, EEP Director. The EEP will provide the compensatory mitigation as follows:

Lower Tar-Pamlico River, CU 03020104 (17.06 acre riverine; 7.76 acres non-riverine; and 8,488 feet of stream): In order to compensate for impacts to 4,244 linear feet of warm-water stream, 8.53 acres of Riverine wetlands (Cypres-Gum swamp), and 3.88 acres of Non-Riverine wetlands, the permittee shall make payment to the North Carolina Ecosystem Enhancement Program (NC EEP) in the amount determined by the NC EEP, sufficient to perform the restoration of 8,488 linear feet of warm water stream, 17.06 acres of Riparian (Riverine) Wetlands, and 7.76 acres of non-Riparian (non-Riverine) wetlands in the Tar-Pamlico River Basin, Cataloging Unit 03020104).

Construction within jurisdictional areas on the property shall begin only after the permittee has made full payment to the NC EEP and provided a copy of the payment documentation to the Corps, and the NC EEP has provided written confirmation to the Corps that it agrees to accept responsibility for the mitigation work required, in compliance with the MOU between the North Carolina Department of Environment and Natural Resources and the United States Army Corps of Engineers, Wilmington District, dated November 4, 1998.



RECEVED

Michael F. Easley, Governor William G. Ross Jr., Secretary North Carolina Department of Environment and Natural Resources

> Alan W. Klimek, P.E. Director Division of Water Quality

SEP 13 2005

DIVISION OF HIGHWAYS PDEA-OFFICE OF NATURAL ENVIRONMENT

September 6, 2005

Dr. Gregory J. Thorpe, PhD., Manager Planning and Environmental Branch North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina, 27699-1548

Dear Dr. Thorpe:

Re: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and Tar-Pamlico River Buffer Authorization for Proposed Improvements to US 17 (Washington Bypass) from south of SR 1127 (Possum Track Road) to north of SR 1418 (Roberson Road) in Beaufort County, TIP No. R-2510 A, B and C, State Project No. 8.T150601, Federal Aid Project No. MAF-75-3(26). DWQ Project No. 050785

Attached hereto is a copy of Certification No. 3527 issued to The North Carolina Department of Transportation dated September 6, 2005.

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

Alan W. Klimek, P.E

Director

Attachments

cc: Wilmington District Corps of Engineers

Mr. Bill Biddlecome, Corps of Engineers Washington Field Office

Mr. Christopher Militscher, US EPA, Region IV

Mr. C.E. Lassiter, Jr., PE, Division 2 Engineer, PO Box 1587, Greenville, NC 27835

Mr. Jay Johnson, Division 2 Environmental Officer, PO Box 1587, Greenville, NC 27835

Mr. Chris Underwood, NEU, 2728-168 Capital Blvd., Parker Lincoln Bldg., Raleigh, NC 27604

Mr. William Gilmore, Ecosystem Enhancement Program

Mr. Steven Sollod, NCDENR - DCM, 2728-168 Capital Blvd., Parker Lincoln Bldg., Raleigh, NC 27604

Mr. Garcy Ward, NCDWQ Washington Regional Office

Central Files

File Copy



APPROVAL OF 401 Water Quality Certification and ADDITIONAL CONDITIONS And Tar Pamlico River Buffer Rules

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H, Section .0500. The project shall be constructed pursuant to the application dated received August 5, 2005, to construct US 17 (Washington Bypass) from South of SR 1127 (Possum Track Road) to North of SR 1418 (Roberson Road) in Beaufort County. The approved design is that submitted in your application dated received August 5, 2005. This certification authorizes the NCDOT to impact 12.41 acres of jurisdictional wetlands, permanently impact 4,244.4 linear feet of stream, 1.49 acres of surface water and impact 385,780.2 square feet of protected Tar-Pamlico Riparian Buffers (234,117.8 square feet in Zone 1 and 151, 662.4 square feet in Zone 2) in Beaufort County. The authorized impacts are as described below:

Section A Wetland Impacts in Tar-Pamlico River Basin

Site	Fill	Fill (temporary)	Excavation	Mechanized Clearing
	(ac)	(ac)	(ac)	Method III
				(ac)
1	0.1184		0.0441	0.0142
2	0.22		0.0214	0.0238
3	0.0108		0.0072	0.0058
4	0.3314		0.3302	0.1425
5	0.0404		0.0877	0.0676
6	1.0470			0.1639
7	0.1491			0.0051
8	0.2530		0.0128	0.0646
9	0.1186		0.0873	0.0276
10	0.5961		0.1659	0.0655
11			0.0359	0.0079
12	0.0171			
15	0.1766		0.0154	0.0789
16	0.2049			0.0475
17	0.0047		0.0093	0.0055
Total	3.2881	0	0.8171	0.7204

Section B Wetland Impacts in the Tar -Pamlico River Basin

Site	Fill	Fill (temporary)	Excavation	Mechanized Clearing
	(ac)	(ac)	(ac)	(ac)
1	0.092			0.007
2			0.017	0.013
3	0.431			0.040
4	3.062			0.149
5	0.122			0.011
6	0.216	0.050		
7	1.554			
8	0.042			
9	0.126			0.017
10	0.223			
Total	5.839	0.050	0.017	0.237

APPROVAL OF 401 Water Quality Certification and ADDITIONAL CONDITIONS And Tar Pamlico River Buffer Rules

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H, Section .0500. The project shall be constructed pursuant to the application dated received August 5, 2005, to construct US 17 (Washington Bypass) from South of SR 1127 (Possum Track Road) to North of SR 1418 (Roberson Road) in Beaufort County. The approved design is that submitted in your application dated received August 5, 2005. This certification authorizes the NCDOT to impact 12.41 acres of jurisdictional wetlands, permanently impact 4,244.4 linear feet of stream, 1.49 acres of surface water and impact 383,268.8 square feet of protected Tar-Pamlico Riparian Buffers (234,117.8 square feet in Zone 1 and 149,151square feet in Zone 2) in Beaufort County. The authorized impacts are as described below:

Section A Wetland Impacts in Tar-Pamlico River Basin

Site	Fill	Fill (temporary)	Excavation	Mechanized Clearing
	(ac)	(ac)	(ac)	Method III
				(ac)
1	0.0784		0.0441	0.0542
. 2			0.0214	0.2438
3	0.0108		0.0072	0.0058
4	0.3014		0.3302	0.1425
5	0.0404		0.0877	0.0676
6	1.0470			0.1639
7	0.1491			0.0051
8	0.2530		0.0128	0.0646
9	0.1186		0.0873	0.0276
10	0.4161		0.1659	0.2455
11		1	0.0359	0.0079
12	0.0171			
15	0.1766		0.0154	0.0789
16	0.2049			0.0475
17	0.0047		0.0093	0.0055
Total	2.8080	0	0.8171	1.1604

Section B Wetland Impacts in the Tar -Pamlico River Basin

Site	Fill	Fill (temporary)	Excavation	Mechanized Clearing
	(ac)	(ac)	(ac)	(ac)
1	0.092			0.007
2			0.017	0.013
3	0.431			0.040
4	3.032			0.149
5	0.122			0.011
6	0.216	0.050		
7	1.554			
8	0.042			
9	0.126			0.017
10	0.223			
Total	5.839	0.050	0.017	0.237

Section C Wetland Impacts in the Tar-Pamlico River Basin

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)
1A	0.022			0.027
1B			0.074	0.021
1C			0.056	0.019
3	0.093			0.031
4	1.035			0.108
Total	1.15	0	0.13	0.206

Section A Surface Water and Stream Impacts in the Tar-Pamlico River Basin

Site	Permanent Fill in Surface Water (ac)	Temporary Fill in Surface Water (ac)	Permanent Stream Impacts (ft)
3	0.0105	0.0061	113
12	0.0140	0.0019	88
13	0.0087	0.0036	52
14	0.0119	0.0080	122
15	0.0219	0.0310	103
Total	0.0670	0.0506	478

Section B Surface Water and Stream Impacts in the Tar-Pamlico River Basin

Site	Permanent Fill in Surface Water (ac)	Temporary Fill in Surface Water (ac)	Permanent Stream Impacts (ft)
1	0.011		121.6
2	0.003		72.7
3	0.759		
4			826.1
6	0.069	0.033	*
7	0.128		1118
8	0.074		
9	0.051		278.9
Total	1.095	0.033	2,417.3

Section C Surface Water and Stream Impacts in the Tar-Pamlico River Basin

Site	Permanent Fill in Surface Water (ac)	Temporary Fill in Surface Water (ac)	Permanent Stream Impacts (ft)
2	0.003		113.8
3	0.018		159.3
4	0.287		841.6
5A	0.007		107.5
5B	0.008		72.5
5C	0.006		54.4
Total	0.329	0	1,349.1

Section A Tar-Pamlico Riparian Buffer Impacts

Site	Zone 1 (sq. ft.)	Zone 2 (sq. ft.)	Wetlands in Zone 1 (sq. ft.)	Wetlands in Zone 2 (sq. ft.)	Mitigation Required Zone 1 (sq. ft.)	Mitigation Required Zone 2 (sq. ft.)
1	12,548.7	7,215	1,034.9		11,513.8	7,215
2	7,000.1	4,327.3	886.4		6,113.7	4,327.3
3	10,019.3	5,931.8			10,019.3	5,931.8
4	13,129.4	6,815.4			13,129.4	6,815.4
5	15,405	7,489	4,051	2,737.4	11,354	4,751.6
6	2,165.1	1,383.8	853		1,312.1	1,383.8
Total	60,330.6	33,162.3	6,825.3	2,737.4	53,505.3	30,424.9

Section B Tar-Pamlico Riparian Buffer Impacts

Site	Zone 1	Zone 2	Wetlands in	Wetlands in	Mitigation Required	Mitigation Required
	(sq. ft.)	(sq. ft.)	Zone 1 (sq. ft.)	Zone 2 (sq. ft.)	Zone 1 (sq. ft.)	Zone 2 (sq. ft.)
1	6,676.6	4,450	4,312.9			
2	2,842.1	1,992.6	1,179.5	98.8	·	
4	49,735.4	32,361	48,299	24,287.9	1,436.4	8,073.1
6A	9,424.7	6,215.2	35.5	3		
6B	10,188.4	6,628.1	7.5	3		
6C	29,045.5	19,778.2	35.5	41.5	29,010	19,736.7
7	60,721.8	38,160.8	3,079.2	5,244.5	57,642.6	32,916.3
9	16,736.8	11,154.9	2,253.9	1,944.5	14,482.9	9,210.4
Total	185,371.3	116,290.7	59,202.9	31,623.2	102,571.9	69,936.5

Section C Tar-Pamlico Riparian Buffer Impacts

Site	Zone 1 (sq. ft.)	Zone 2 (sq. ft.)	Wetlands in Zone 1 (sq. ft.)	Wetlands in Zone 2 (sq. ft.)	Mitigation Required Zone 1	Mitigation Required Zone 2
					(sq. ft.)	(sq. ft.)
1A	14,759.6	9,684.9	1,477.4	453.3	13,282.2	9,231.6
3	10,208.7	6,621.8	521.8	934.7	9,686.9	5,687.1
4	55,506.1	33,873.3	434.6	2.4	55,071.5	33,870.9
5A	8,114.1	5,294.4				
5B	6,986.8	4,080.4	·			
5C	3,976.1	2,628.6				
Total	99,551.5	62,183.2	2,433.9	1,390.3	78,040.6	48,789.6

Mitigation Requirements for Tar-Pamlico Riparian Buffers Project Wide

	Impact (sq. ft.)	Replacement Ratio	Total Impact (sq. ft.)	Fee schedule	Payment amount for Mitigation
Zone 1	234,117.8	3:1	702,353.4	\$0.96/sq. ft.	\$674,259.26
Zone 2	149,151	1.5:1	223,726.5	\$0.96/sq. ft.	\$214,777.44
	\$889,036.7				

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

This approval is only valid for the purpose and design that you submitted in your application dated received August 5, 2005, as described in the Public Notice. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire three years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding Corps of Engineers Permit, whichever is sooner.

Condition(s) of Certification:

- 1. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act
- All sediment and erosion control measures shall not be placed in wetlands or waters to the maximum
 extent practicable. If placement of sediment and erosion control devices in wetlands and waters is
 unavoidable, they shall be removed and the natural grade restored after the Division of Land Resources
 has released the project.
- 3. If an environmental document is required, this Certification is not valid until a FONSI or ROD is issued by the State Clearinghouse. All water quality-related conditions of the FONSI or ROD shall become conditions of this Certification;
- 4. No live or fresh concrete shall come into contact with waters of the state until the concrete has hardened.
- 5. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit. Should waste or borrow sites be located in wetlands or stream, compensatory mitigation will be required since it is a direct impact from road construction activities.

- 6. All channel relocations will be constructed in a dry work area, and stabilized before stream flows are diverted. Channel relocations will be completed and stabilized prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Vegetation used for bank stabilization shall be limited to native woody species, and should include establishment of a 30 foot wide wooded and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical. A transitional phase incorporating coir fiber and seedling establishment is allowable. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested.
- 7. Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the 401/Wetlands Unit of the Division of Water Quality upon completion of the project.
- 8. The NCDOT will need to adhere to all appropriate in-water work moratoriums (including the use of pile driving or vibration techniques) prescribed by the NC Wildlife Resources Commission, the US Fish and Wildlife Service, and National Marine Fisheries Service. No in-water work is permitted between February 15 and June 15 of any year, without prior approval from the NC Division of Water Quality and the NC Wildlife Resources Commission. In addition, NCDOT shall conform with the NCDOT policy entitled "Stream Crossing Guidelines for Anadromous Fish Passage (May 12, 1997) at all times.
- 9. When final design plans are completed for R-2510 Section B and C, a modification to the 401 Water Quality Certification and the Tar-Pamlico River Riparian Buffer Certification shall be submitted with seven copies and fees to the NC Division of Water Quality. Final designs shall reflect all appropriate avoidance, minimization, and mitigation for impacts to wetlands, streams, and other surface waters, and buffers. No construction activities that impact any wetlands, streams, surface waters, or protected riparian buffers located in R-2510 Section B and C shall begin until after NCDOT applies for, and receives a written modification 401 Water Quality Certification and Tar-Pamlico River Riparian Buffer Authorization from the NC Division of Water Quality.
- 10. Compensatory mitigation for impacts 383,268.8 square feet of Tar-Pamlico Riparian Buffers shall be provided for as described below.

Zone of	Impacts	Replacement	Total Square Feet of
Impact	(Square Feet)	Ratio	Mitigation Required
Zone 1	234,117.8	3:1	702,354.4
Zone 2	149,151	1.5:1	223,726.5
Total	383,268.8		926,080.9

We understand that you have chosen to perform compensatory mitigation for impacts to protected buffers through an in lieu payment to the North Carolina Ecosystem Enhancement Program (NCEEP), and that the EEP has agreed to implement the mitigation for the project. Mitigation for unavoidable impacts to Tar-Pamlico Riparian Buffers shall be provided through an in-lieu payment to the North Carolina Ecosystem Enhancement Program (NCEEP) at a rate of \$0.96 per square foot. Therefore, a total payment of \$889,036.7 shall be submitted to the NCEEP to offset the impacts. No construction activities in Tar-Pamlico River Riparian buffers shall begin until payment for buffer mitigation is made and the Ecosystem Enhancement Program receives and clears your check (made payable to DENR Ecosystem Enhancement Program). The payment to NCEEP shall be sent within two months of issuance of the 404 permit. If you have any questions concerning the Ecosystem Enhancement Program please contact them at 919-733-5208.

11. Compensatory mitigation for impacts to 12.41 acres of jurisdictional wetlands shall be done. Total mitigation shall be provided as described below:

Offsite Compensatory Mitigation

Compensatory mitigation for the unavoidable impacts to 8.53 acres of riparian wetlands and 3.88 acres of non-riparian wetlands in the Hydrologic Cataloging Unit 03020104, associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated August 4, 2005, and in accordance with the Memorandum of Agreement (MOA) between the State of North Carolina and the US Army Corps of Engineers signed on July 22, 2003.

- 12. Compensatory mitigation for impacts to 4,244.4 linear feet of streams shall be done at a replacement ratio of 2:1, except sites A3, and B7, which will be done at a ratio of 1:1. Applying a replacement ratio of 2:1 or 1:1, total mitigation for 7,255.8 linear feet of streams shall be provided as described below:
 - Compensatory Mitigation
 Compensatory mitigation for the unavoidable impacts to 4,244.4 linear feet of streams in the Hydrologic Cataloging Unit 03020104 associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated August 4, 2005, and in accordance with the Memorandum of Agreement (MOA) between the State of North Carolina and the US Army Corps of Engineers signed on July 22, 2003.
- 13. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
- 14. All temporary fills in wetlands and surface waters shall be removed upon completion of the project. In addition, the post-construction removal of any temporary bridge structures or fill will need to return the project site to its preconstruction contours and elevations. The revegetation of the impacted areas with appropriate native species will be required.
- 15. Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- 16. The dimension, pattern and profile of the stream above and below the crossing should not be modified by widening the stream channel or reducing the depth of the stream. Disturbed floodplains and streams should be restored to natural geomorphic conditions.
- 17. Any riprap used must not interfere with thalweg performance and aquatic life passage during low flow conditions.
- 18. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
- 19. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- 20. Two copies of the final construction drawings shall be furnished to NCDWQ prior to the pre-construction meeting. Written verification shall be provided to the NC Division of Water Quality that the final construction drawings comply with the attached permit drawings contained in your application dated August 5, 2005.
- 21. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
- 22. NCDOT, and its authorized agents, shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water

Act) and any other appropriate requirements of State law and Federal law. If DWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, DWQ may reevaluate and modify this certification to include conditions appropriate to assure compliance with such standards and requirements in accordance with 15A NCAC 2H.0507(d).

- 23. A copy of this Water Quality Certification shall be posted on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
- 24. DOT shall schedule a preconstruction meeting for this project prior to incurring any impacts in jurisdictional waters including wetlands. The Division of Water Quality shall be notified a minimum of 30 days prior to the preconstruction conference.
- 25. Placement of culverts and other structures in waters, streams, and wetlands must be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium shall be maintained if requested in writing by DWQ.
- 26. If the above condition (#25) is unable to be met, due to bedrock or other limiting features encountered during construction, please contact the NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
- 27. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit. Should waste or borrow sites be located in wetlands or stream, compensatory mitigation will be required since it is a direct impact from road construction activities.
- 28. Any violations, during the construction of the approved project, of this 401 Water Quality Certification or the North Carolina State Water Quality Standards as defined in 15A NCAC 2B .0200 Rules, shall be reported immediately to the North Carolina Division of Water Quality.
- 29. Pursuant to NCAC15A 2B.0259(6), sediment and erosion control devices shall not be placed in Zone 1 of any Tar-Pamlico Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.

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

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

This the 6th day of September 2005

DIVISION OF WATER QUALITY

Alan W. Klimek, P

Director

WQC No. 3527



North Carolina Department of Environment and Natural Resources Division of Coastal Management

Michael F. Easley, Governor

Charles S. Jones, Director

William G. Ross Jr., Secretary

October 31, 2005

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

SUBJECT:

CD05-052 - Consistency Concurrence for Improvements to US 17 from South of SR 1127 to North of SR 1418 (Washington Bypass, TIP No. R-2510) in Beaufort County, NC (DCM #20050063)

Dear Dr. Thorpe:

The Division of Coastal Management (DCM) received on September 19, 2005 complete documentation supporting that the above referenced project would be consistent with the enforceable policies of North Carolina's coastal management program.

North Carolina's coastal management program consists of, but is not limited to, the Coastal Area Management Act, the State's Dredge and Fill Law, and the land use plan of the County and/or local municipality in which the proposed project is located. It is the objective of DCM to manage the State's coastal resources to ensure that proposed activities are compatible with safeguarding and perpetuating the biological, social, economic and aesthetic values of the State's coastal resources.

To solicit public comments, DCM published a public notice in the "Washington Daily News" on September 21, 2005 and circulated a description of the proposed project to State agencies that would have a regulatory interest in the proposed development. No comments were received asserting that the proposed project would be inconsistent with North Carolina's coastal management program.

In accordance with the supporting documentation accompanying NCDOT's Consistency Certification for this project, no CAMA Areas of Environmental Concern (AEC's) are to be impacted by the construction of the A section, R-2510A. However, the proposed R-2510B section impacts the Public Trust Area and Public Trust Shoreline CAMA AEC's where it crosses the Tar River. The proposed R-2510C section impacts the Public Trust Area and Public Trust Shoreline CAMA AEC's where it crosses Cherry Run and Old Ford Swamp. Prior to initiating any construction on the remaining segments of this project (R-

Should the project be modified, a revised consistency certification could be necessary. This might take the form of either a supplemental consistency certification pursuant to 15 CFR 930.66, or a new consistency certification pursuant to 15 CFR 930.57. Likewise, if further project assessments reveal environmental impacts not previously considered by the proposed development, a supplemental consistency certification might be required. If you have any questions, please contact Steve Sollod at (919) 733-2293 x230 or via e-mail at steve.sollod@ncmail.net. Thank you for your consideration of the North Carolina coastal management program.

Sincerely,

Doug Huggett

Manager, Major Permits and Consistency Unit

Doubles V Huggett

cc: Bill Arrington, DCM
Christina Breen, DWQ
Bill Gilmore, EEP
Terry Moore, DCM
Stephen Rynas, DCM
Steve Sollod, DCM
Chris Underwood, NCDOT
William Wescott, USACE



DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS

P. O. BOX 1890 WILMINGTON, NORTH CAROLINA 28402-1890 January 17, 2006

Regulatory Division

Action ID. 199301143; Tip Project No. R-2510A

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

Dear Mr. Thorpe:

In accordance with the written request of May 3, 2005, and the ensuing administrative record, enclosed is a permit to relocate and widen approximately 15 miles of US Highway 17 (Washington Bypass), starting from 0.5 mile south of Possum Track Road (NCSR 1127) south of Chocowinity, Beaufort County and ending 0.2 mile north of Roberson Road (NCSR 1418) north of Washington, Beaufort County, North Carolina.

If any change in the authorized work is required because of unforeseen or altered conditions or for any other reason, the plans revised to show the change must be sent promptly to this office. Such action is necessary, as revised plans must be reviewed and the permit modified.

Carefully read your permit. The general and special conditions are important. Your failure to comply with these conditions could result in a violation of Federal law. Certain significant general conditions require that:

- a. You must complete construction before December 31, 2008.
- b. You must notify this office in advance as to when you intend to commence and complete work.
- c. You must allow representatives from this office to make periodic visits to your worksite as deemed necessary to assure compliance with permit plans and conditions.

If you have questions, please contact Mr.William Wescott at the Washington Regulatory Field Office, telephone 252-975-1616, extension 31.

Sincerely,

John E. Pulliam, Jr.

Colonel, U.S. Army

District Engineer

Enclosures

Copy Furnished with enclosures:

Chief, Source Data Unit NOAA/National Ocean Service ATTN: Sharon Tear N/CS261 1315 East-West Hwy., Rm 7316 Silver Spring, MD 20910-3282

Copies Furnished with special conditions and plans:

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

Mr. Ron Sechler
National Marine Fisheries
Service, NOAA
Pivers Island
Beaufort, North Carolina 28516

Mr. David Rackley
National Marine Fisheries
Service, NOAA
219 Fort Johnson Road
Charleston, South Carolina 29412-9110

Mr. Ronald Mikulak, Chief Wetlands Section - Region IV Water Management Division U.S. Environmental Protection Agency Atlanta Federal Center 61 Forsyth Street, SW Atlanta, Georgia 30303

Mr. Doug Huggett NC Division of Coastal Management Division of Coastal Management 400 Commerce Avenue Morehead City, NC 28557-3421

NC Department of Transportation ATTN: Beth Harmon 1652 Mail Service Center Raleigh, NC 27699-1652

DEPARTMENT OF THE ARMY PERMIT

Permittee North Carolina Department of Transportation, Gregory J. Thorpe, Ph.D.

Permit No.

199301143

Issuing Office

CESAW-RG-W

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

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

Project Description: Widen and relocate approximately 15 miles of US Highway 17. The proposed roadway will be a four-lane, divided highway, with grass shoulders and ditches, and a 46-foot wide grassed median. The median will be reduced to a 10-foot median divided by a barrier on the four-lane freeway bridge that will span the Tar River and the frequently inundated forested wetlands adjacent to the Tar River.

Project Location: The proposed highway widening and relocation will extend approximately 15 miles, starting from 0.5 mile south of Possum Track Road (NCSR 1127) south of Chocowinity, in Beaufort County and ending 0.2 mile north of Roberson Road (NCSR 1418) north of Washington, in Beaufort County, North Carolina.

Permit Conditions:

General Conditions:

- 1. The time limit for completing the work authorized ends on **December 31, 2008** If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

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

Special Conditions:

SEE ATTACHED SPECIAL CONDITIONS

Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
- 2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
- 3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit, Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

RepSH-E	12/6/05
(PERMITTEE) \ North Carolina Department of Tran	sportation (DATE)
This permit becomes effective when the Federal official, designat	ed to act for the Secretary of the Army, has signed below.
S. Kenneth Jelly	1/12/06
DISTRICT ENGINEER) JOHN E. PULLIAM, JR., COI	ONEL (DATE)
When the structures or work authorized by this permit are still in	
conditions of this permit will continue to be binding on the new of and the associated liabilities associated with compliance with its t	
•	,
(TRANSFEREE)	(DATE)

SPECIAL CONDITIONS (Action ID. 199301143; NCDOT/TIP R-2510)

COMPLIANCE WITH PLANS

- a) This authorization is only for Section R-2510-A. Construction on sections R-2510-B and R-2510-C shall not commence until final design has been completed and plans have been approved by the District Engineer.
- b) All work must be performed in strict compliance with the attached plans, which are a part of this permit. Any modification to the permit plans must be approved by the USACE prior to implementation.

ACTIVITIES NOT AUTHORIZED

c) Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, nor shall any activities take place that cause the degradation of waters or wetlands. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

This permit does not authorize temporary placement or double handling of excavated or fill material within jurisdictional waters, including wetlands, outside the permitted area. Additionally, no construction materials or equipment will be placed or stored within jurisdictional waters, including wetlands.

CONSTRUCTION PLANS

- d) The permittee will ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Written verification shall be provided that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. Any deviation in the construction design plans will be brought to the attention of the Corps of Engineers, Washington Regulatory Field Office prior to any active construction in waters or wetlands.
- e) Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed project, the permittee shall forward the latest version of project construction drawings to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings will be acceptable.

POLLUTION SPILLS

f) All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. No equipment staging or storage of construction material will occur in wetlands. Hydro-seeding equipment will not be discharged or washed out into any surface waters or wetlands. In the event of a spill of petroleum products or any other hazardous waste, the permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-5083 or (800) 662-7956 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

NOTIFICATION

g) The permittee shall advise the Corps in writing at least two weeks prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.

CLEAN FILL MATERIAL

h) Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.

IN-WATER MORATORIUM

i) A construction moratorium for anadromous fish from February 15 through June 15 will be adhered to for in-water work.

SECTION 7 ESA CONSULTATION

j) Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed project, the permittee shall conduct another survey for the federally threatened sensitive joint-vetch (*Aeschynomene virginica*) during its flowering season (mid July –October). Results of that survey shall be forwarded to USFWS for review. The USFWS shall submit their findings in writing to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager.

CONTRACTOR COMPLIANCE

k) The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit, and any authorized modifications. A copy of this permit, and

any authorized modifications, including all conditions, shall be available at the project site during construction and maintenance of this project.

SEDIMENTATION AND EROSION CONTROL MEASURES

l) The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standards. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

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

During the clearing phase of the project, heavy equipment must not be operated in surface waters or stream channels. Temporary stream crossings will be used to access the opposite sides of stream channels. All temporary diversion channels and stream crossings will be constructed of nonerodable materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.

No fill or excavation for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless it is included on the plan drawings and specifically authorized by this permit.

REPORTING OF VIOLATIONS

m) The permittee will report any violation of these conditions or violations of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act in writing to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager, within 24 hours of the permittee's discovery of the violation.

COMPLIANCE WITH SPECIAL CONDITIONS

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

WET CONCRETE

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

CULVERTS

p) All authorized culverts will be installed to allow the passage of low stream flows and the continued movement of fish and other aquatic life as well as to prevent headcutting of the streambed. For all box culverts and for pipes greater than 48 inches in diameter, the bottom of the pipe will be buried at least one foot below the bed of the stream unless burial would be impractical and the Corps of Engineers has waived this requirement. For culverts 48 inches in diameter or smaller, the bottom of the pipe must be buried below the bed of the stream to a depth equal to or greater than 20 percent of the diameter of the culvert. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in disequilibrium of wetlands or streambeds or banks, adjacent to, upstream or downstream of the structures. In order to allow for the continued movement of bed load and aquatic organisms, existing stream channel widths and depths will be maintained at the inlet and outlet ends of culverts. Riprap armoring of streams at culvert inlets and outlets shall be minimized above the ordinary high water elevation in favor of bioengineering techniques such as bank sloping, erosion control matting and revegetation with deep-rooted, woody plants.

PRECONSTRUCTION MEETING

q) The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall provide the Corps of Engineers, Washington Regulatory Field Office, NCDOT Regulatory Project Manager, with a copy of the final plans at least two weeks prior to the preconstruction meeting along with a description of any changes that have been made to the project's design, construction methodology or construction timeframe. The permittee shall schedule the preconstruction meeting for a time when the Corps of Engineers and North Carolina Division of Water Quality (NCDWQ) Project Managers can attend. The permittee shall invite the Corps and NCDWQ

Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedule and participate in the required meeting.

BORROW AND WASTE

r) To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent wetlands and streams, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The permittee shall provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as the permittee has that information. The permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any streams or wetlands. All jurisdictional wetland boundaries on borrow and waste sites shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The permittee shall ensure that all such areas comply with Special Condition b) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the Special Condition b). All information will be available to the Corps of Engineers upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

EEP MITIGATION

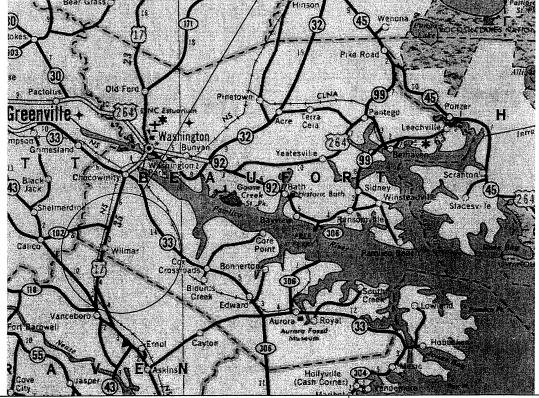
s) Compensatory mitigation for the unavoidable impacts to 8.53 acres of riverine wetlands, 3.88 acres of non-riverine wetlands, and 4,244 linear feet of perennial stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated August 4, 2005 from William D. Gilmore, EEP Director. The EEP will provide the compensatory mitigation as follows:

Lower Tar-Pamlico River, CU 03020104 (17.06 acre riverine; 7.76 acres non-riverine; and 8,488 feet of stream):

In order to compensate for impacts to 4,244 linear feet of warm-water stream, 8.53 acres of Riverine wetlands (Cypres-Gum swamp), and 3.88 acres of Non-Riverine wetlands, the permittee shall make payment to the North Carolina Ecosystem Enhancement Program (NC EEP) in the amount determined by the NC EEP, sufficient to perform the restoration of 8,488 linear feet of warm water stream, 17.06 acres of Riparian (Riverine) Wetlands, and 7.76 acres of non-Riparian (non-Riverine) wetlands in the Tar-Pamlico River Basin, Cataloging Unit 03020104).

Construction within jurisdictional areas on the property shall begin only after the permittee has made full payment to the NC EEP and provided a copy of the payment documentation to the Corps, and the NC EEP has provided written confirmation to the Corps that it agrees to accept responsibility for the mitigation work required, in compliance with the MOU between the North Carolina Department of Environment and Natural Resources and the United States Army Corps of Engineers, Wilmington District, dated November 4, 1998.





VICINITY MAP

NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR II49 (PRICE ROAD)

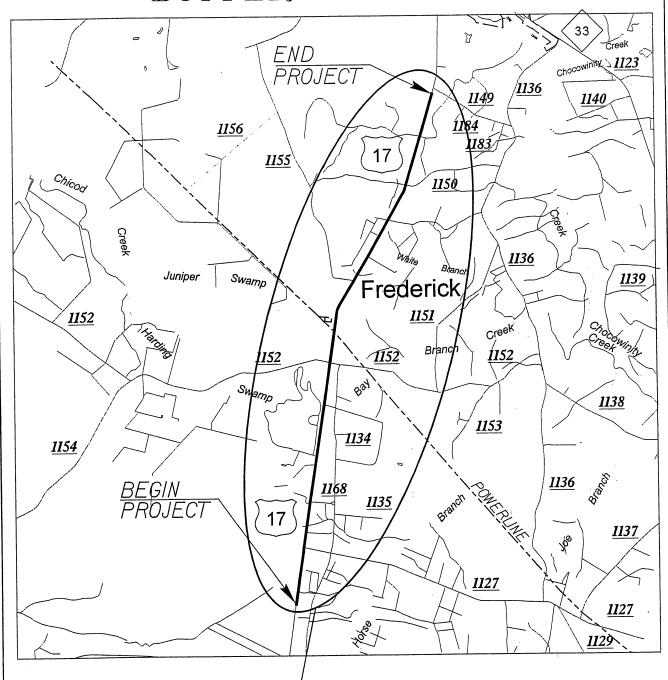
NOT TO SCALE

DATE: AUG-04

r:NR2510AN4ydraulicsNPermitsNR2510A_permit_tsh.dgn 03/01/2005 07:15:24 AM

 $f: \mathcal{M}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}}}}}}$

BUFFER SITE MAP



SITE



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR 1149 (PRICE ROAD)

NOT TO SCALE

DATE: AUG-04

SHEET OF_

r:NR25iOAVHydraulics\Permits\R25iOA_permit_Ishdgn 3/15/2005 10:41:56 AM

BUFFER LEGEND

-WLB----- WETLAND BOUNDARY



WETLAND



ALLOWABLE IMPACTS ZONE I



ALLOWABLE IMPACTS ZONE 2



MITIGABLE IMPACTS ZONE I



MITIGABLE IMPACTS ZONE 2

— BZ —— RIPARIAN BUFFER ZONE

----BZ1--- RIPARIAN BUFFER ZONE 1 3Ø ft (9.2m)

-BZ2-- RIPARIAN BUFFER ZONE 2 2Ø ft (6.1m)

→ → FLOW DIRECTION

__ TOP OF BANK

___WE___ EDGE OF WATER

 $_{_}^{ extsf{C}}$ PROP.LIMIT OF CUT

_ <u>F</u> _ 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

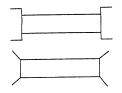
--- EPB --- EXIST. ENDANGERED PLANT BOUNDARY

___∇____ WATER SURFACE

LIVE STAKES

BOULDER

CORE FIBER ROLLS



PROPOSED BRIDGE

PROPOSED BOX CULVERT

PROPOSED PIPE CULVERT

12"-48" PIPES

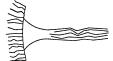
(DASHED LINES DENOTE EXISTING STRUCTURES)

54" PIPES & ABOVE

SINGLE TREE

WOODS LINE

DRAINAGE INLET



ROOTWAD

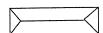


RIP RAP



ADJACENT PROPERTY OWNER OR PARCEL NUMBER
IF AVAILABLE

PREFORMED SCOUR HOLE (PSH)



LEVEL SPREADER (LS)



GRASS SWALE



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-25I0A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR 1149 (PRICE ROAD)

NOT TO SCALE

DATE: AUG-04

SHEET ____ OF_

r:\R2510A\Hydraulics\Permits\R2510A_permit_tsh.dgn

3/15/2005

SUMMARY OF AFFECTED PROPERTY OWNERS BUFFER SITES

TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
[12]	TERRY D. ANDREWS	8059 US HWY I7 S CHOCOWINITY NC, 27817	I
[3]	J.M. HILL, et ux	3509 TRENT RD. NEW BERN NC, 28560	I
60	MICHAEL MIZELL, et ux	6219 US HWY 17 S CHOCOWINITY NC,27817	2
62	BOBBY GENE WEATHINGTON	PO BOX 921 CHOCOWINITY NC, 27817	. 2
68	ROY MITCHELL CLARK, et ux	7450 PITT ST. GRIMESLAND NC,27837	3
71	BETSY ROSE HADDOCK	6025 US HWY I7 S CHOCOWINITY NC, 27817	3
87	EDWARD A. BUCK, et ux	?	4
95	CHARLES L. TOLER, JR.	PO BOX 398 CHOCOWINITY NC, 27817	4
97	SALLIE BLOUNT TOLER	5613 US HWY 17 S CHOCOWINITY NC, 27817	4
(108)	A. FRANK RESPESS	4918 US HWY 17 S CHOCOWINITY NC, 27817	5
(109)	MARVIN J. HARRIS FAMILY TRUST	PO BOX 1747 WASHINGTON NC, 27889	5
(107)	JASON C. SHEPPARD	PO BOX 1902 WASHINGTON NC, 27889	5
(110)	SCOTT ROBERT BATEMAN, et ux	4892 US HWY I7 S CHOCOWINITY NC, 27817	5
(18)	RICHARD D. PEED, JR., et ux	410 TRANTERS CREEK DR. WASHINGTON NC, 27889	6

NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR 1149 (PRICE ROAD)

NOT TO SCALE

DATE: AUG-04

r:\R2510A\Hydraulics\Permits\R2510A_permit_tshdgn

10:11:32 AM

3/15/2005

OF_ SHEET ___

	A H H	EMENT	ZONE 2										T				0:0					
	RIFFER	REPLACEMENT	ZONE 1														0.0	PORTATION	HWAYS	UNTY	(R-2510A)	
		111	TOTAL (ft²)	19763.7	11327.4	15951 1	20007.7	22894.0	3548.9								93492.8	N.C. DEPT. OF TRANSPORTATION	DIVISION OF HIGHWAYS	BEAUFORT COUNTY	T: 34440.1.1	4/8/2005 SHEET OF
		MITIGABLE	ZONE 2 (ft²)	7215.0	4327.3	5931.8			1383.8								33162.2	N.C. DEP	DIVIS	BE	PROJEC	H.
		_	ZONE 1 (ff²)	12548.7	7000.1	10019.3	13192.4	15405.0	2165.1								60330.6					
IMARY	ST	里	TOTAL (ff²)														0.0					
NOS S.	IMPACT	ALLOWABLE	ZONE 2 (ff²)														0.0					
MPACT		7	ZONE 1 (ff²)														0.0					
BUFFER IMPACTS SUMMARY		J.	PARALLEL IMPACT																			
BO		TYPE	ROAD CROSSING	×	×	×	×	×	×													
			STATION (FROM/TO)	56+75 to 57+80	154+80 to 156+00	161+80 to 162+90	184+00 to 186+30	223+50 to 225+20	241+10 to 241+65													
			STRUCTURE SIZE / TYPE	66" RCP	30" RCP	24" RCP	24"RCP	2@8ft×7ft	36" RCP													
			SITE NO.	-	2	3	4	5	9								TOTAL:					

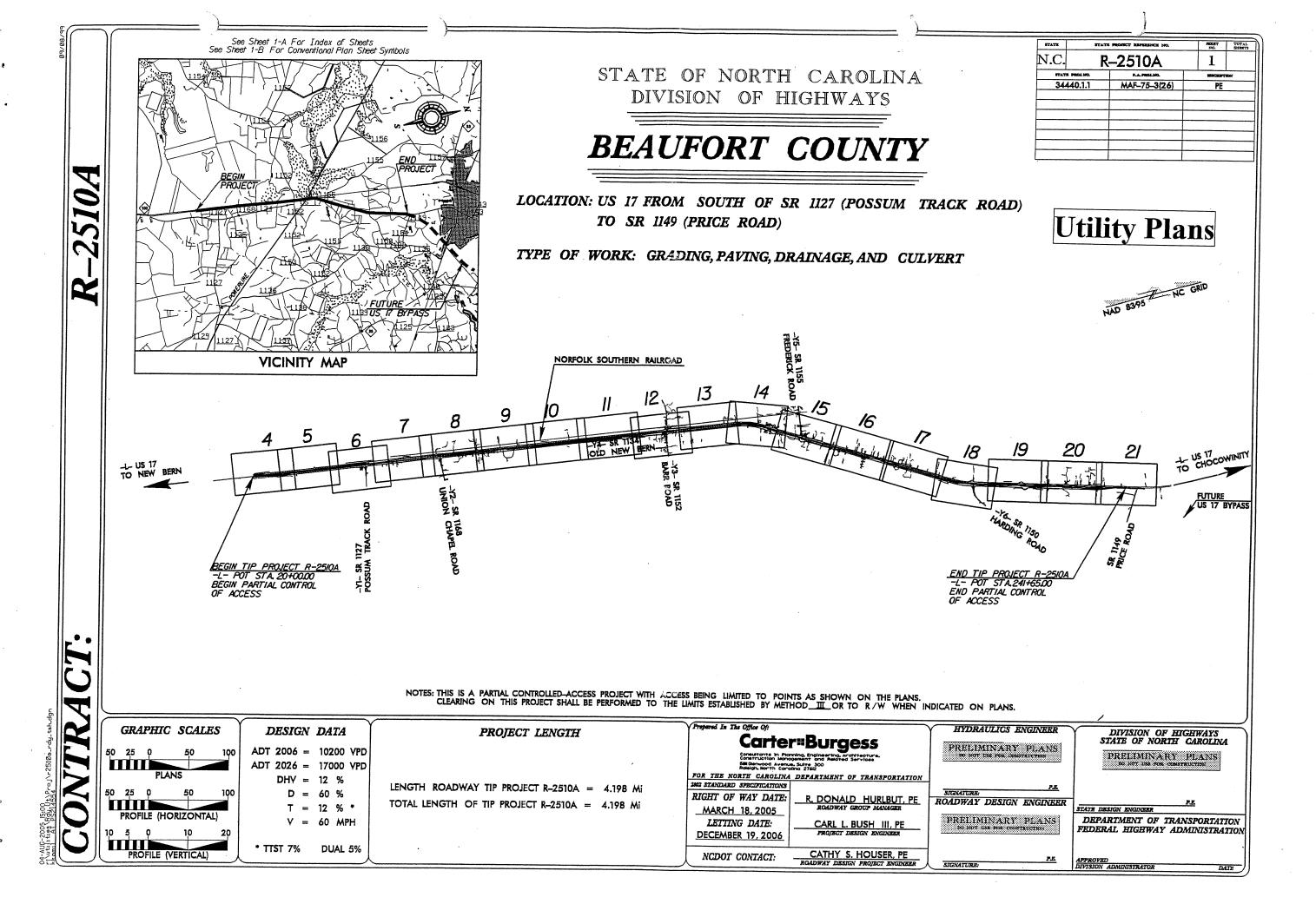
BUFFER IMPACTS SUMMARY

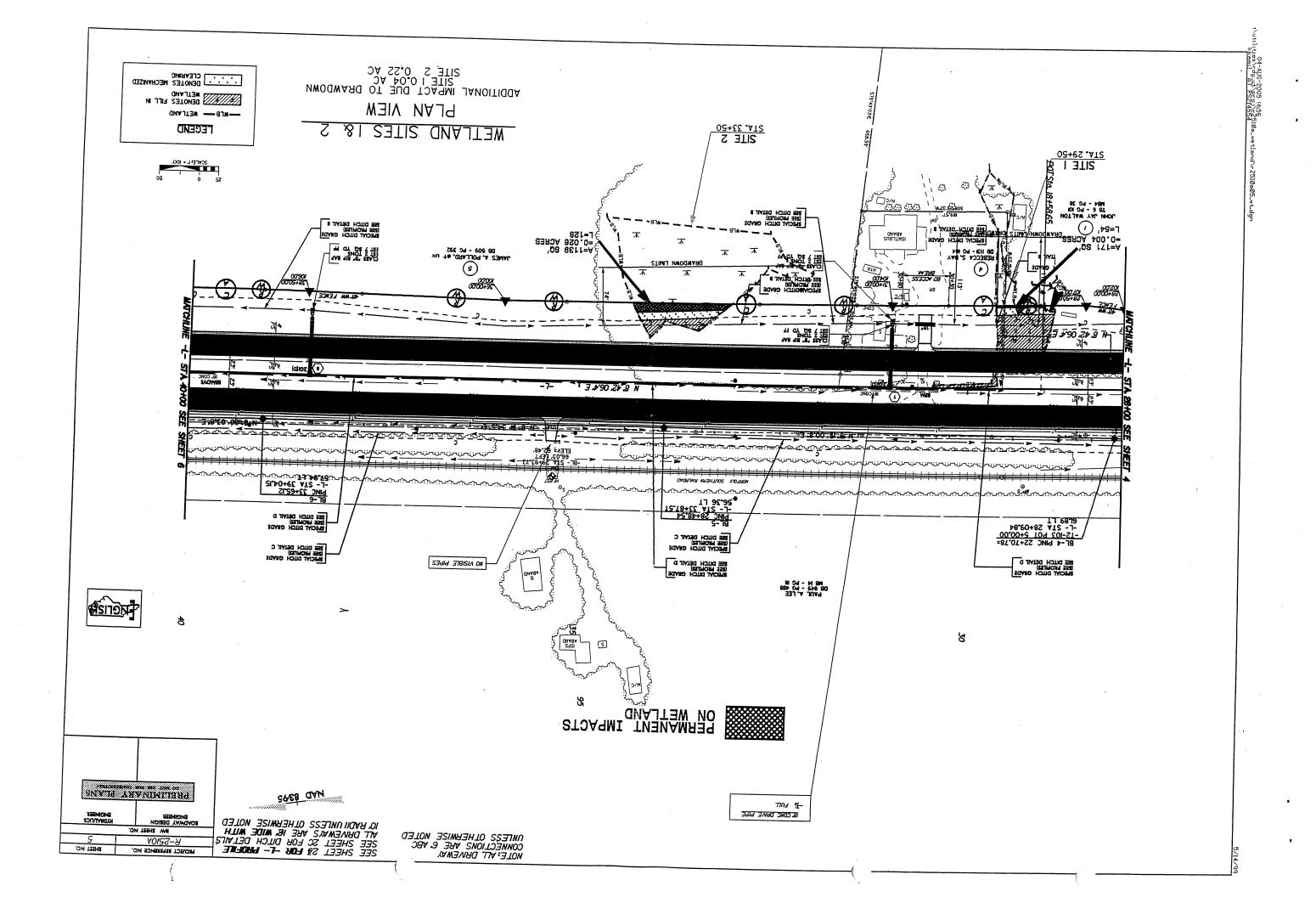
		WETLANDS	WETLANDS IN BUFFER
Site	Station	ZONE 1 (ft²)	ZONE 2 (ft²)
1	56+75 to 57+80	1034.9	0.0
2	154+80 to 156+00	886.4	0.0
5	223+50 to 225+20	4051.0	2737.4
9	241+10 to 241+65	853.0	0.0
		6825.3	2737.4

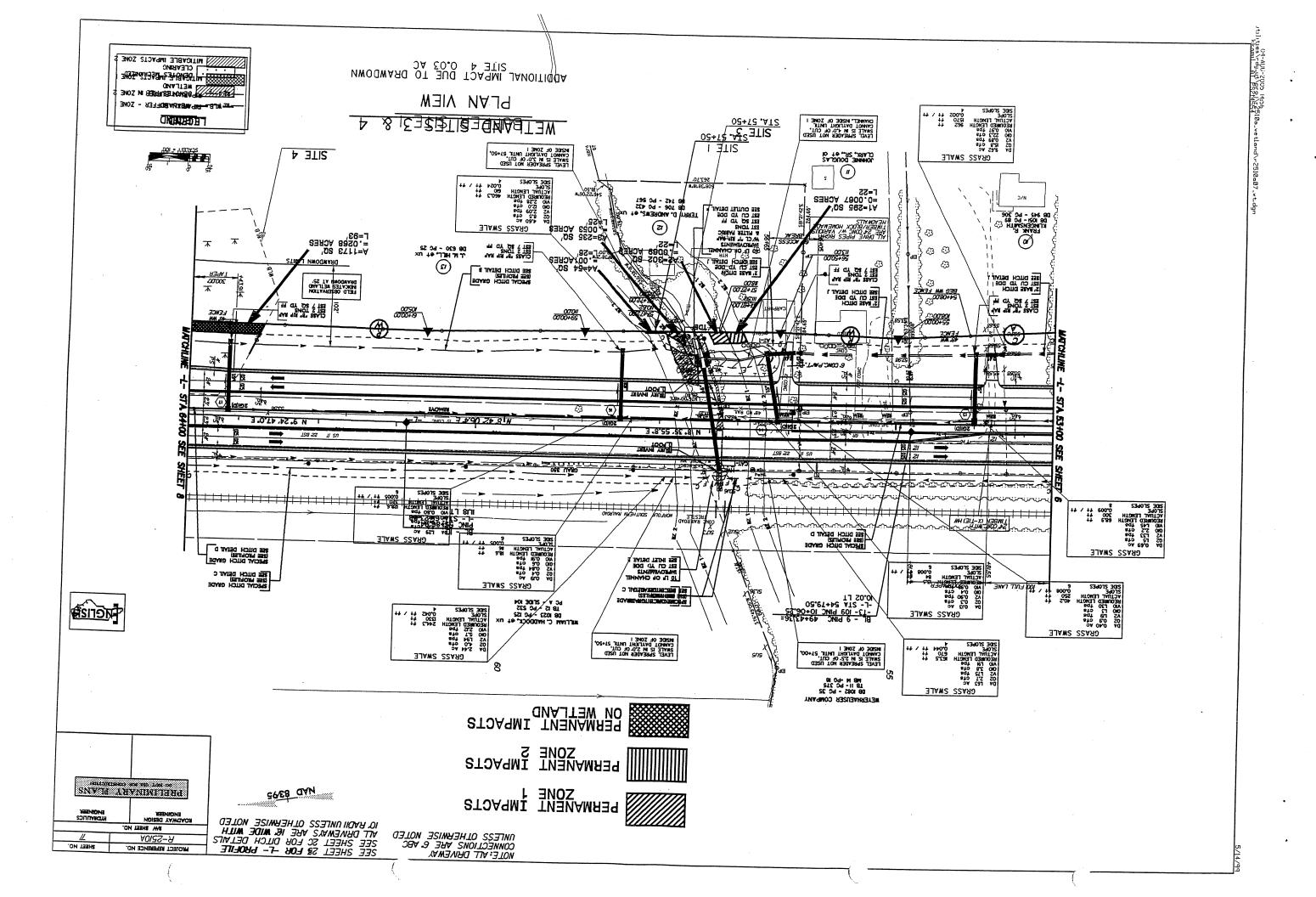
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

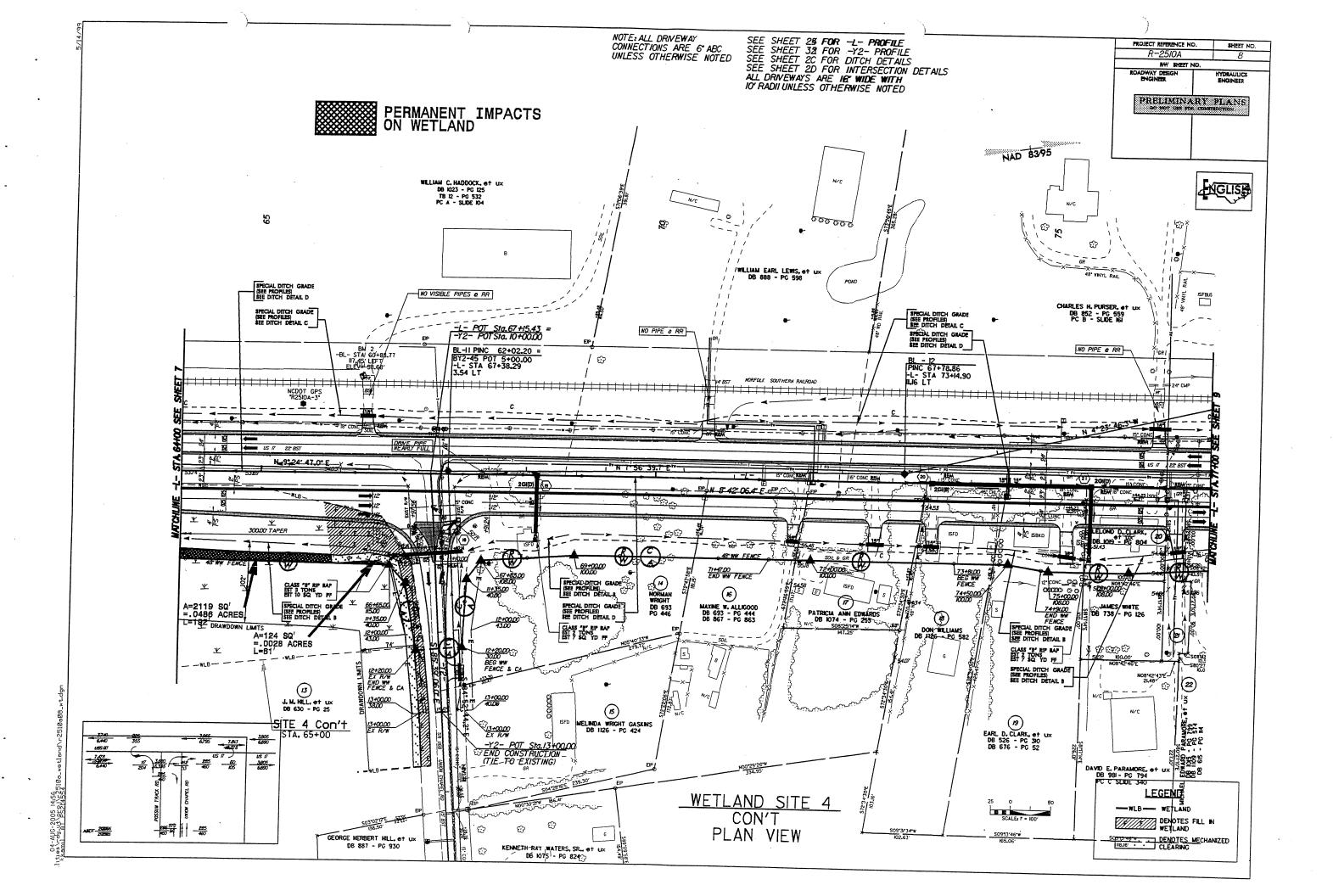
BEAUFORT COUNTY PROJECT: 34440.1.1 (R-2510A)

4/8/2005 SHEET OF

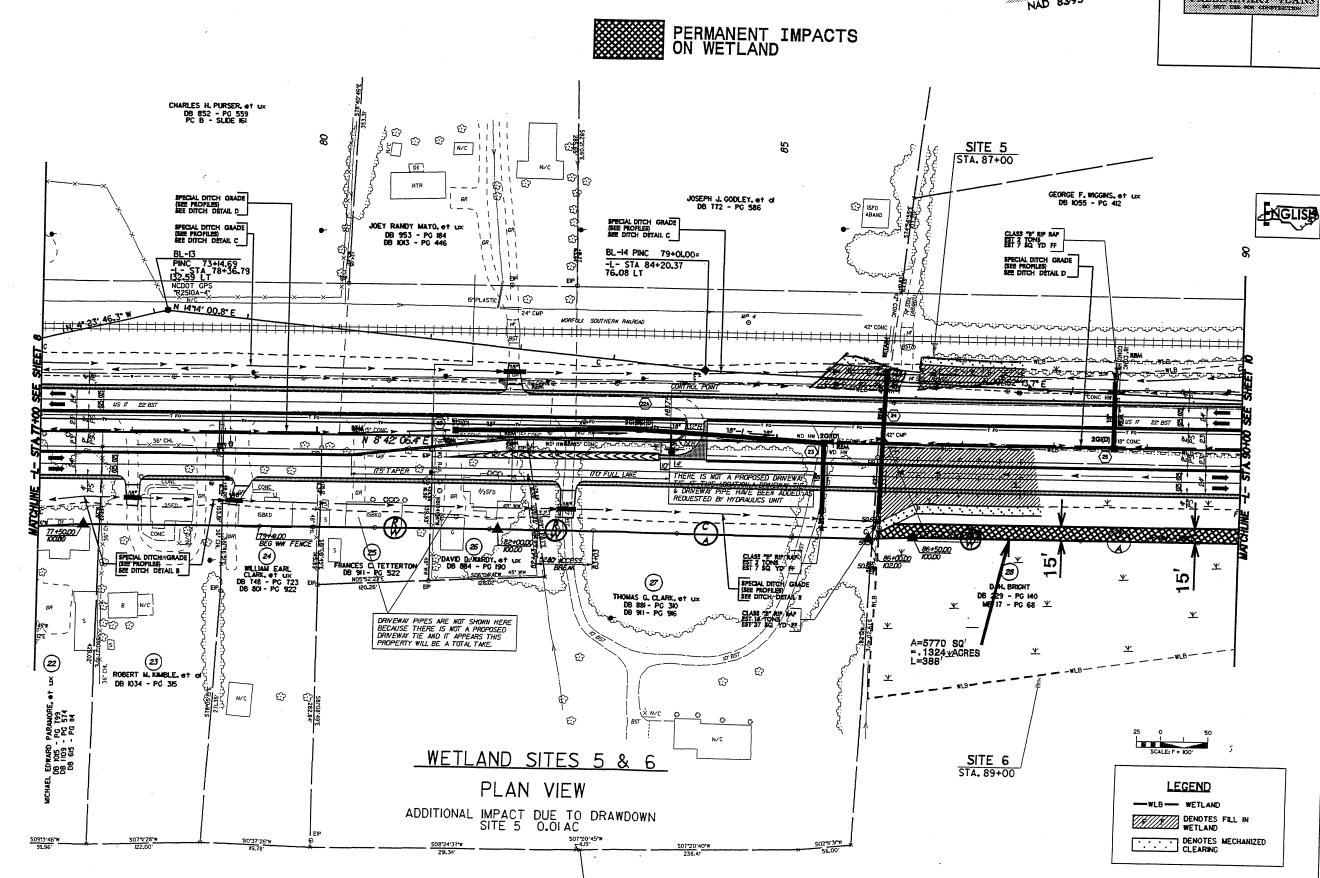


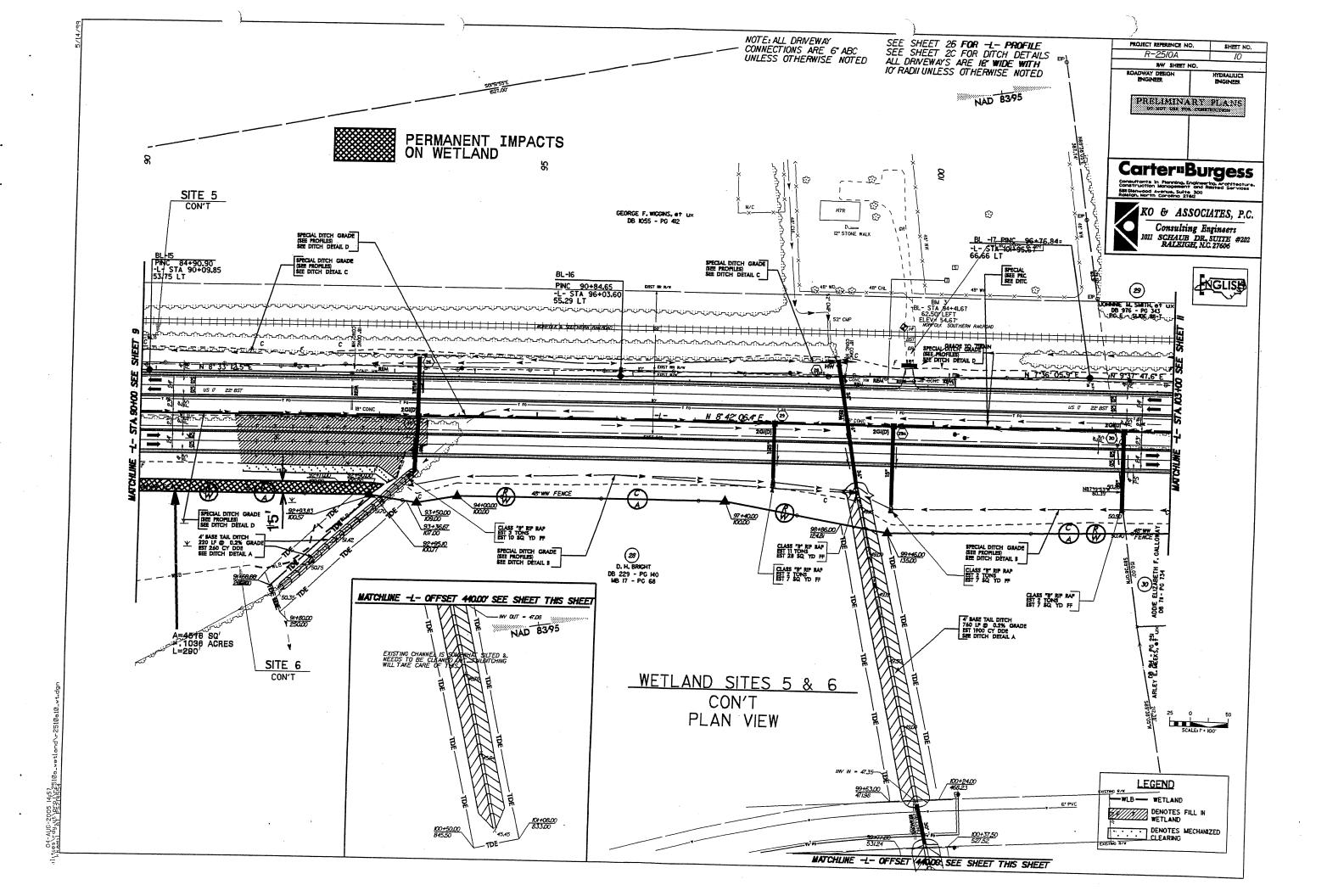


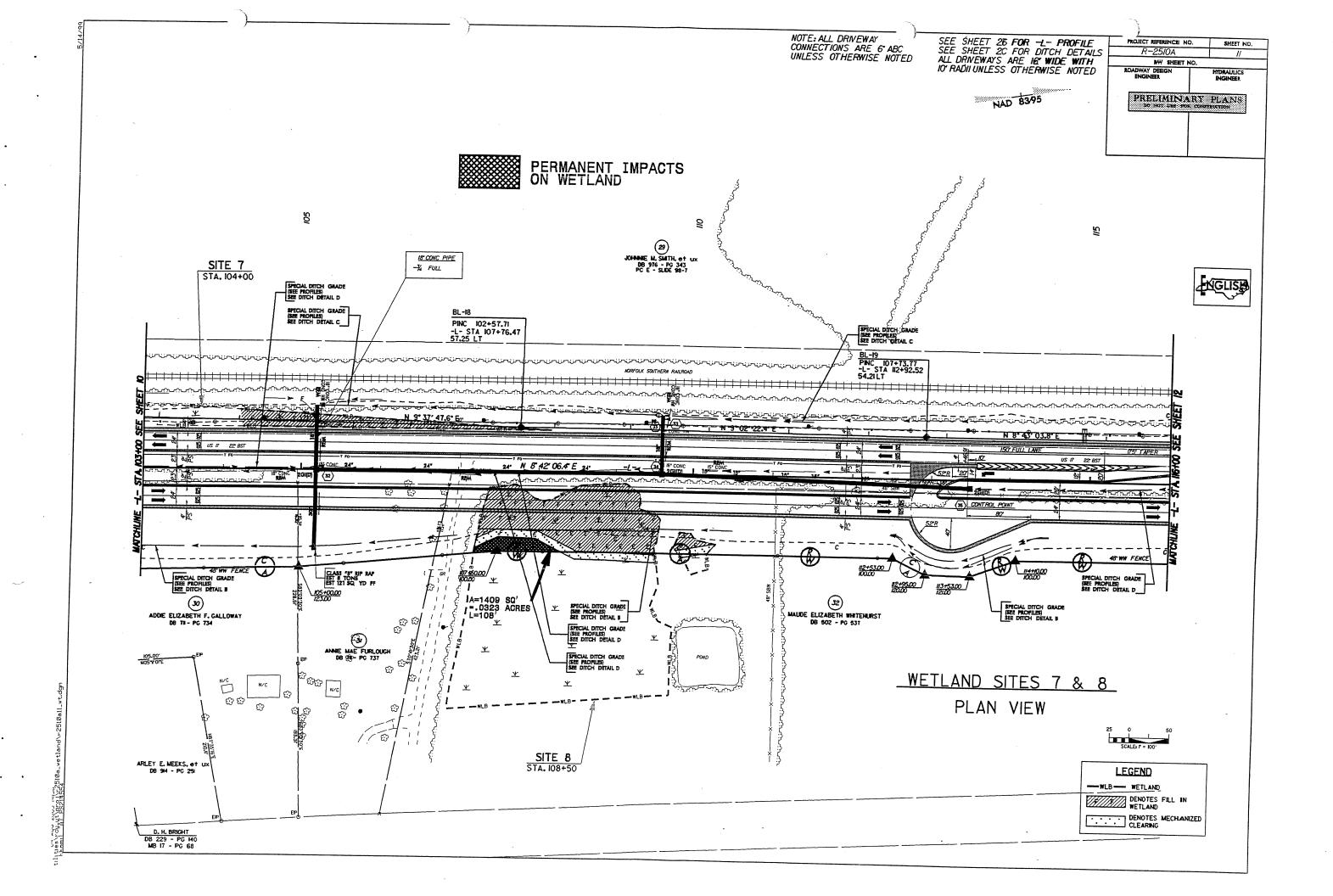


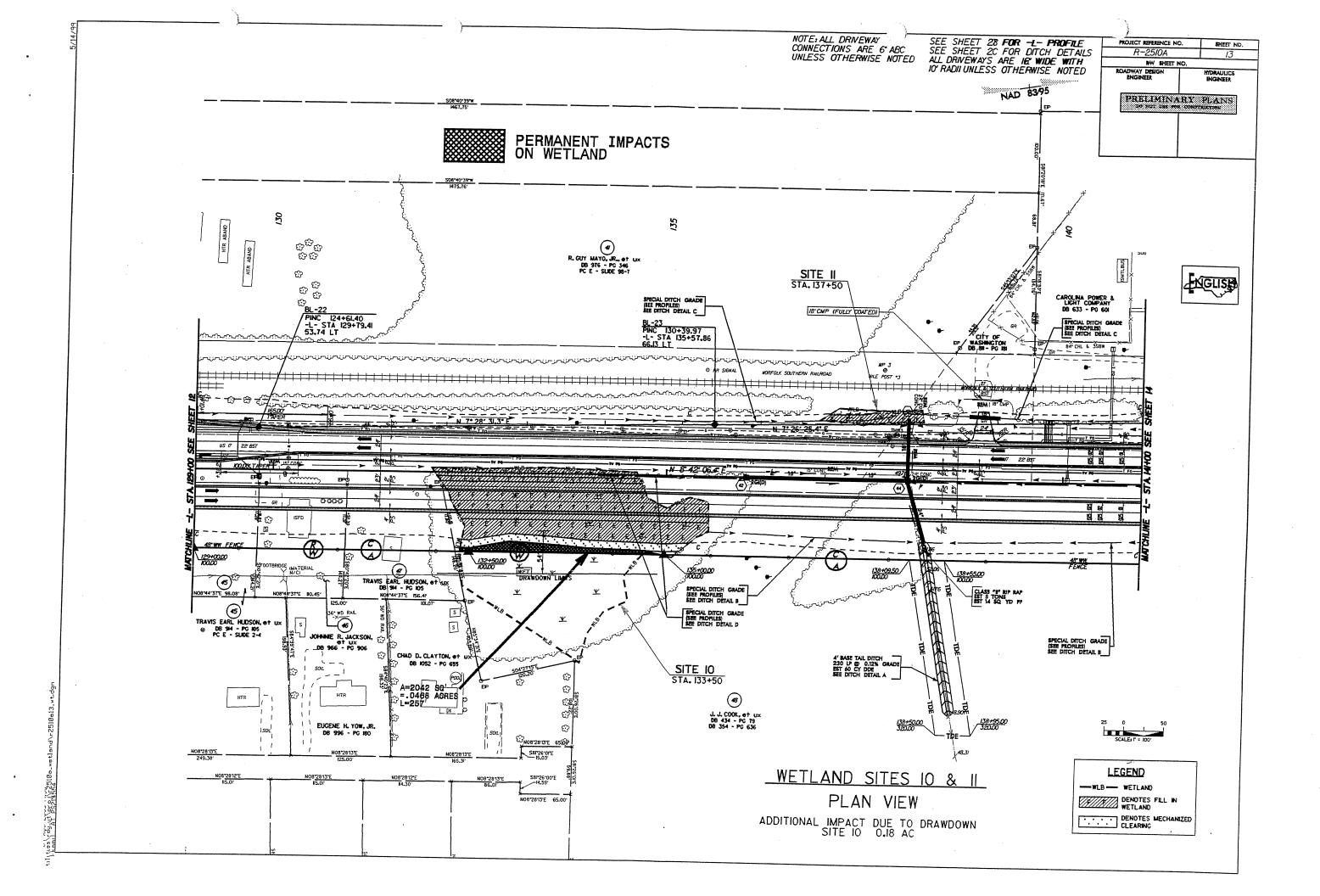


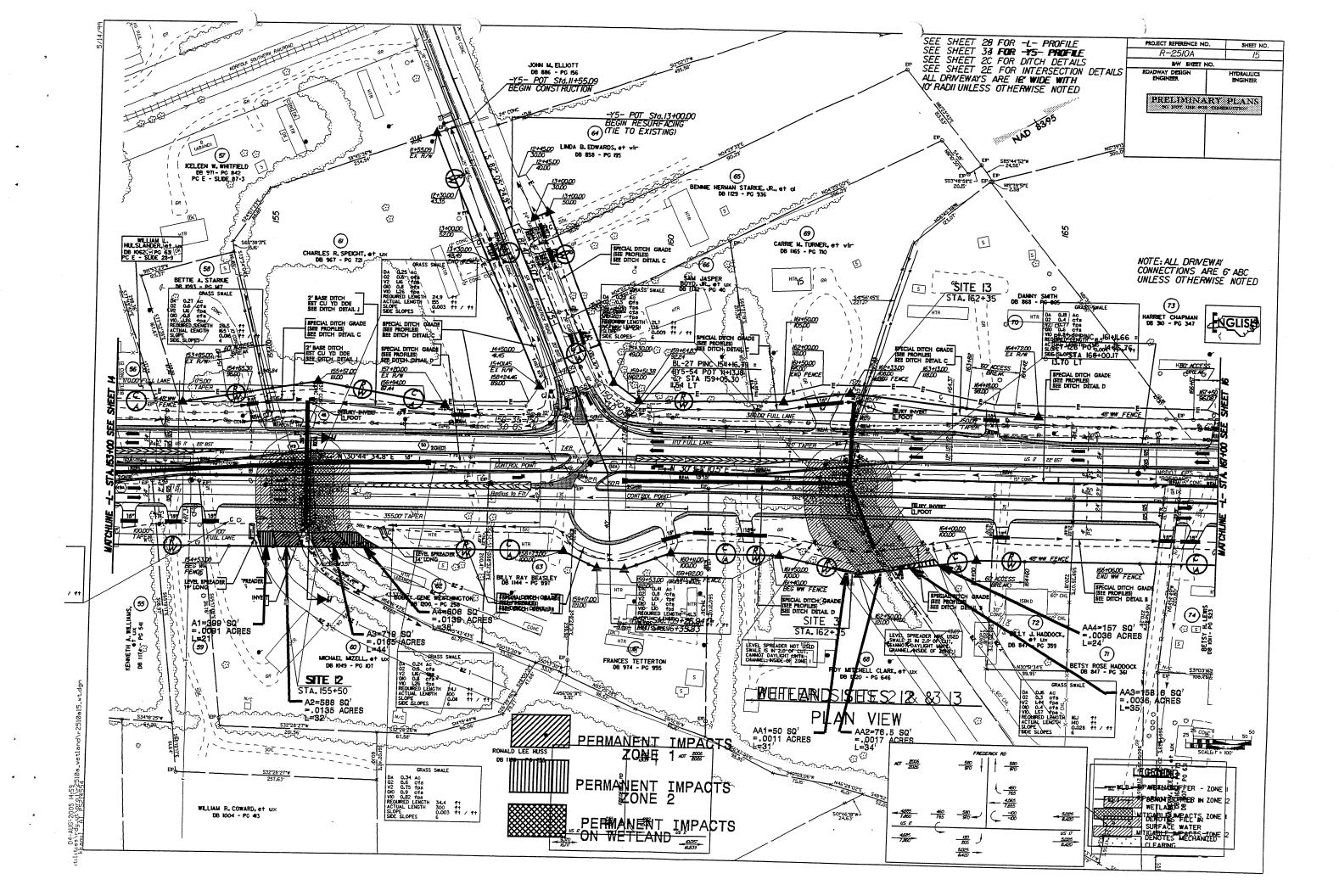
NOTE: ALL DRIVEWAY CONNECTIONS ARE 6 ABC UNLESS OTHERWISE NOTED SEE SHEET 26 FOR -L- PROFILE SEE SHEET 2C FOR DITCH DETAILS ALL DRIVEWAY'S ARE IR WIDE WITH IO' RADII UNLESS OTHERWISE NOTED PROJECT REFERENCE NO. SHEET NO. R-25/0A NW SHEET NO. ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER NAD 8395 PRELIMINARY PLANS
SO SECT USE FOR CONSTRUCTION PERMANENT IMPACTS ON WETLAND SITE 5 STA. 87+00 JOSEPH J. GODLEY, et al DB 772 - PG 586 MGLISH SFD ABAND CLASS TE RIF RAF SPECIAL DITCH GRADE (SEE PROFILES) SEE DITCH DETAIL D 2GI(D) (E) THERE IS NOT A PROPOSED DRINEWAY 10 <u>ሦ</u> ر ک <u>¥</u> ¥ 5192010 A=5770 SQ' = .1324_YACRES L=388' * € SCALE: I' = 100' SITE 6 STA. 89+00 LEGEND -WLB- WETLAND DENOTES FILL IN WETLAND DENOTES MECHANIZED CLEARING

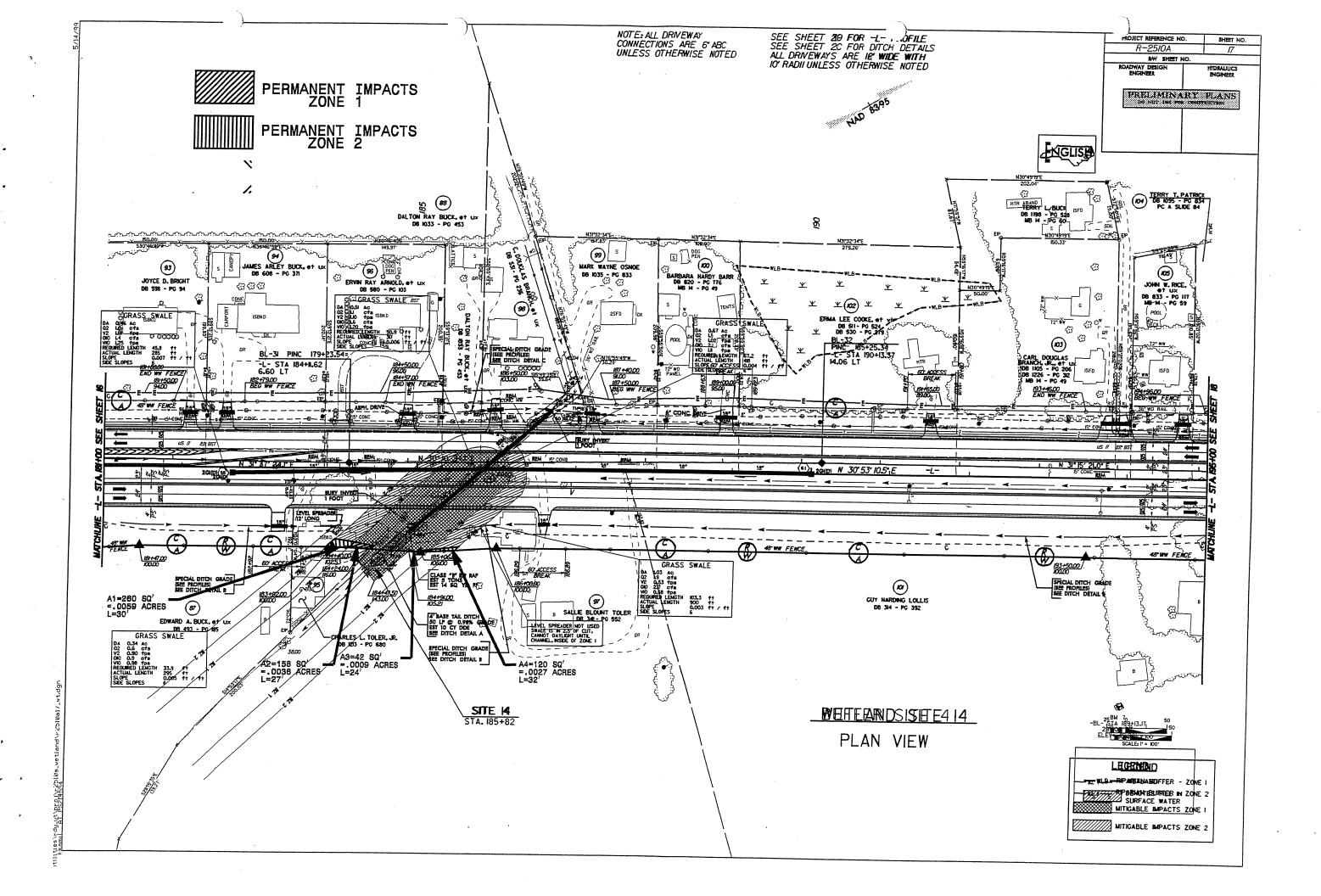


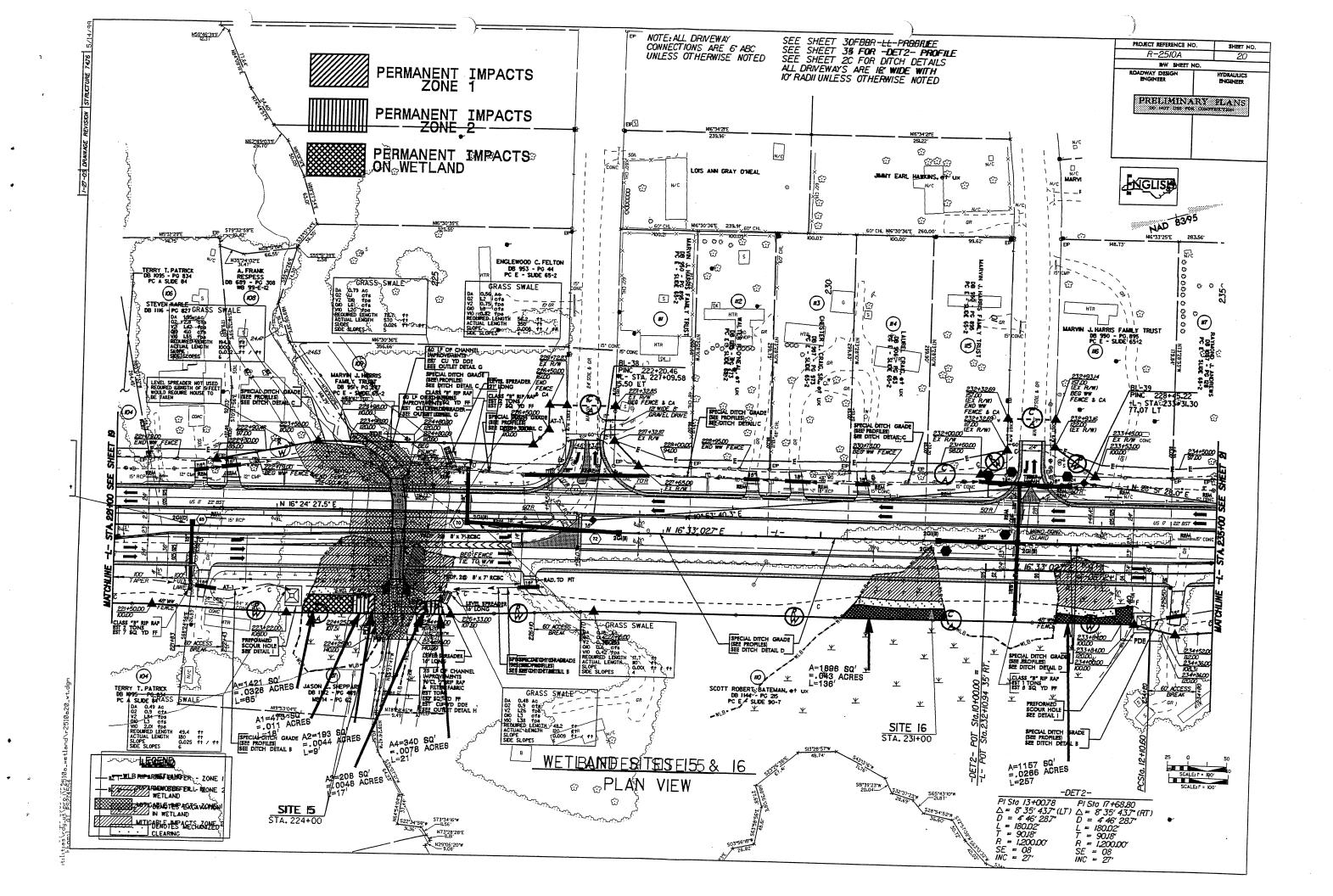


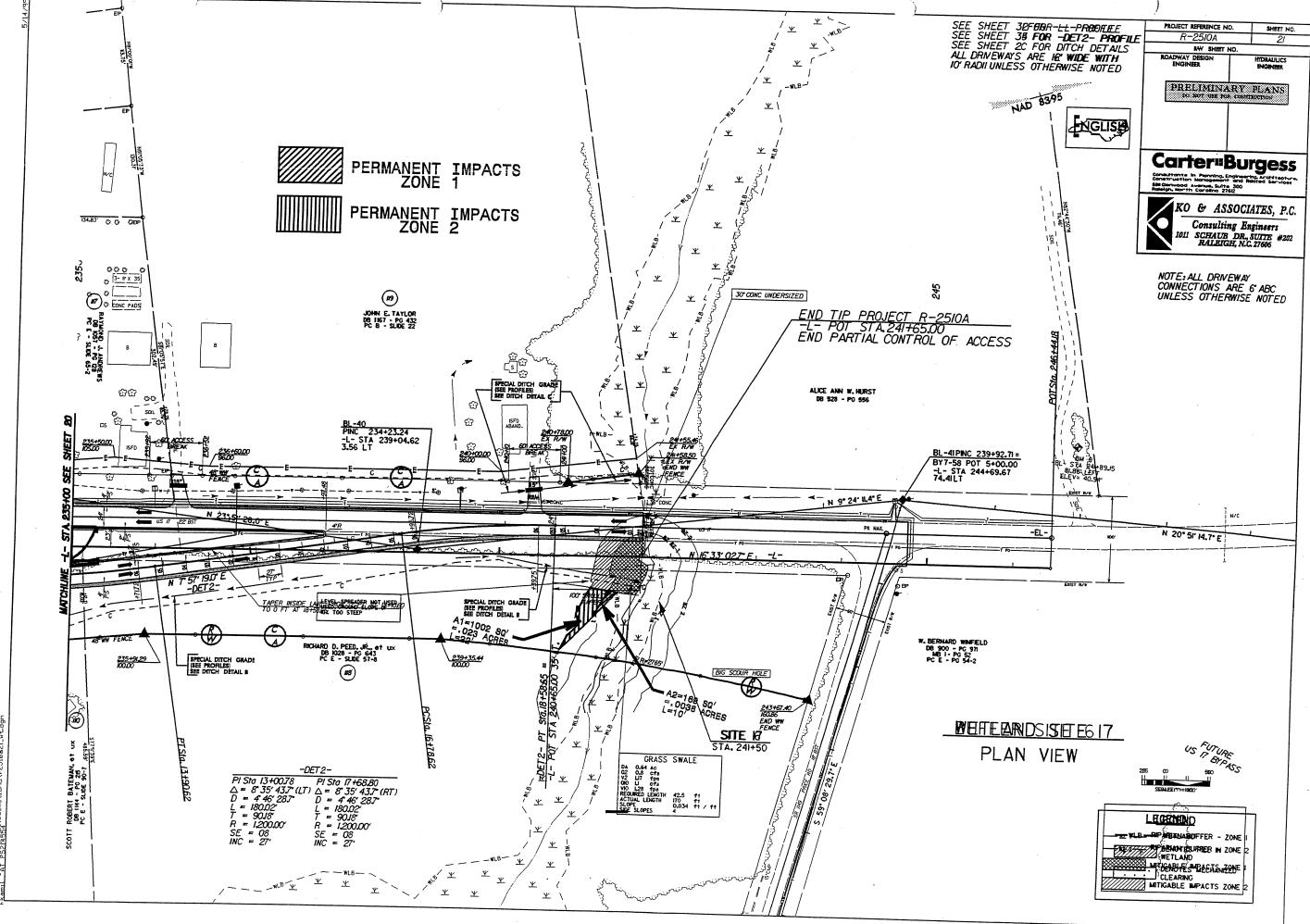






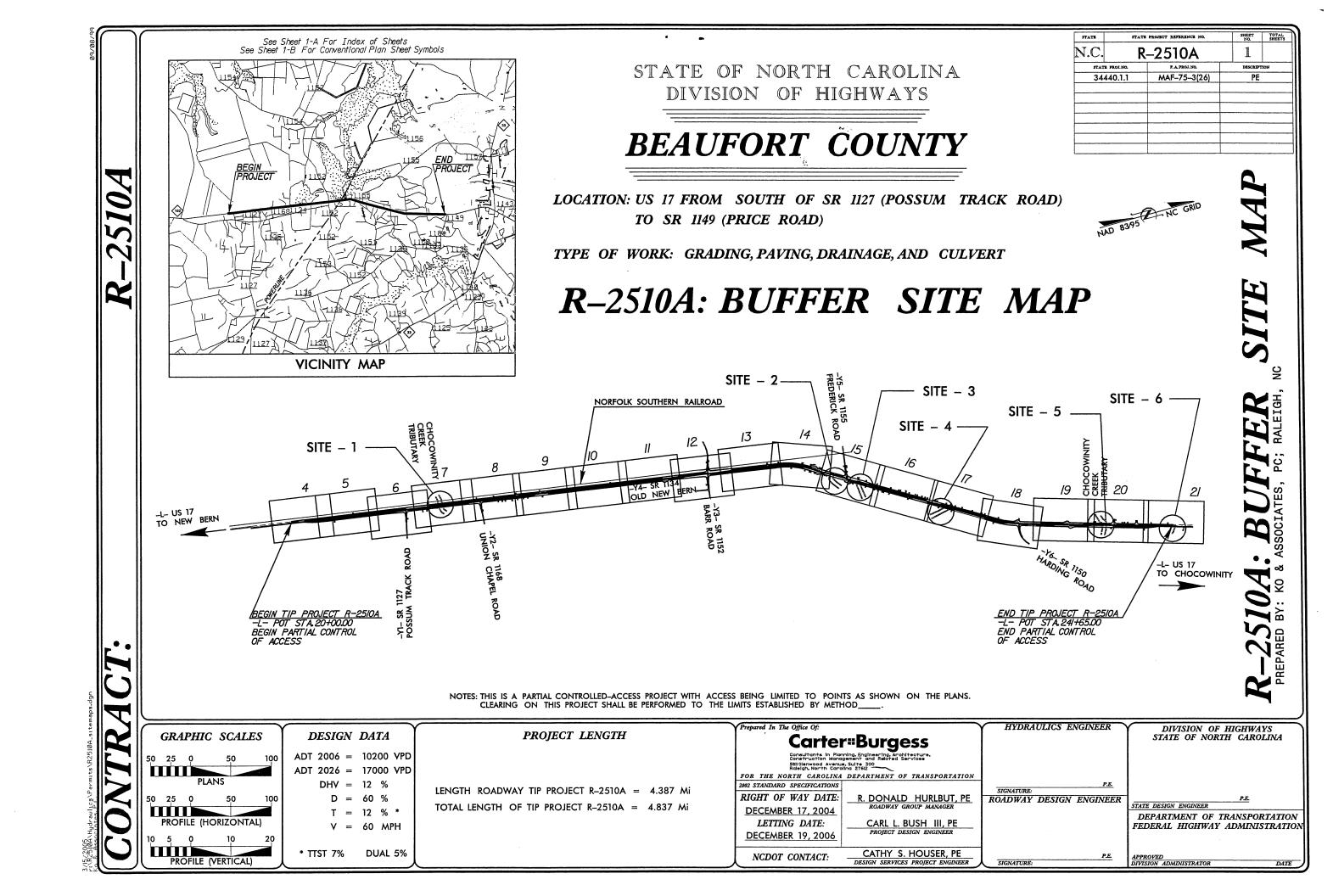


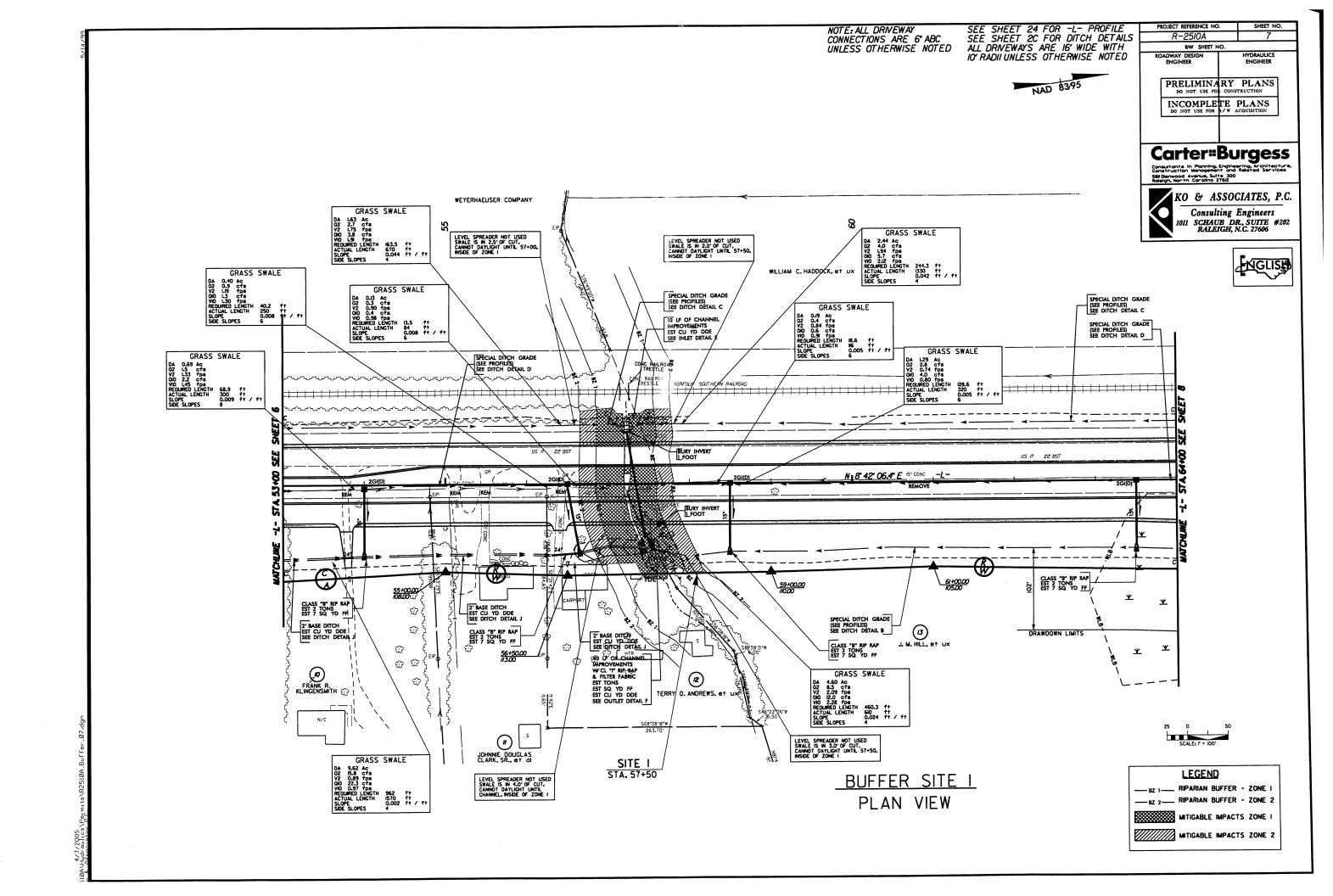


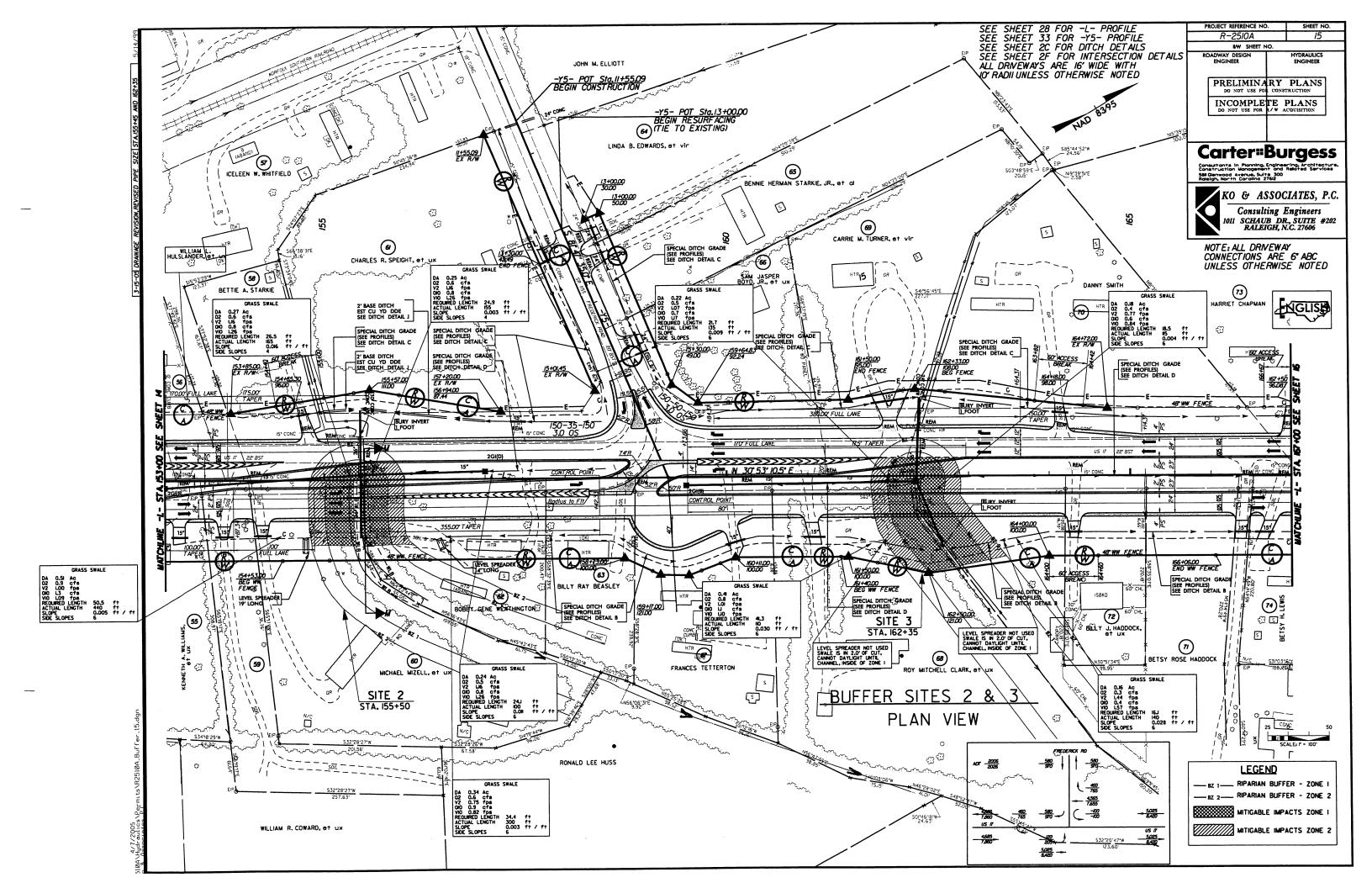


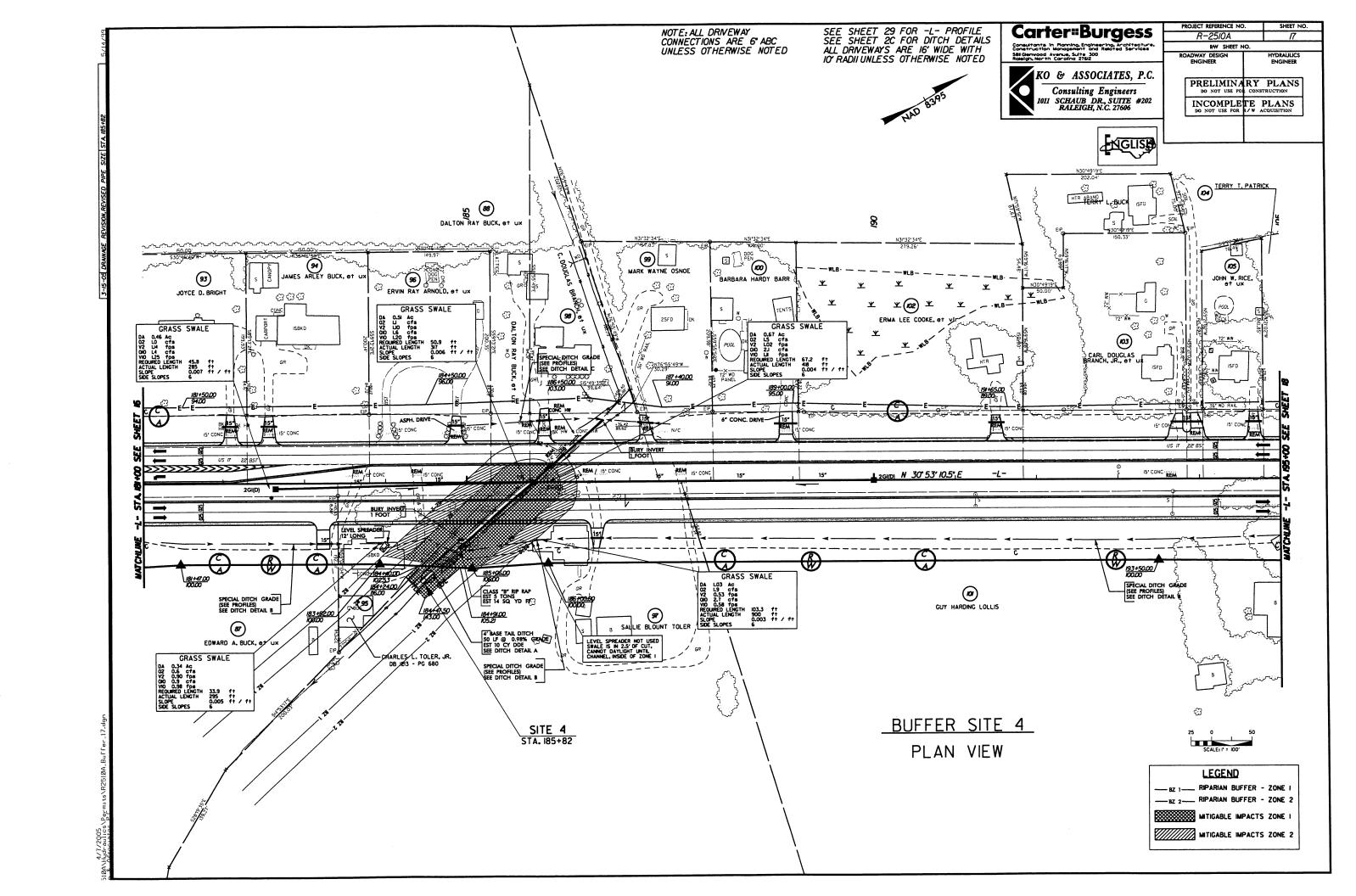
0a_wetland\r2510a21_1

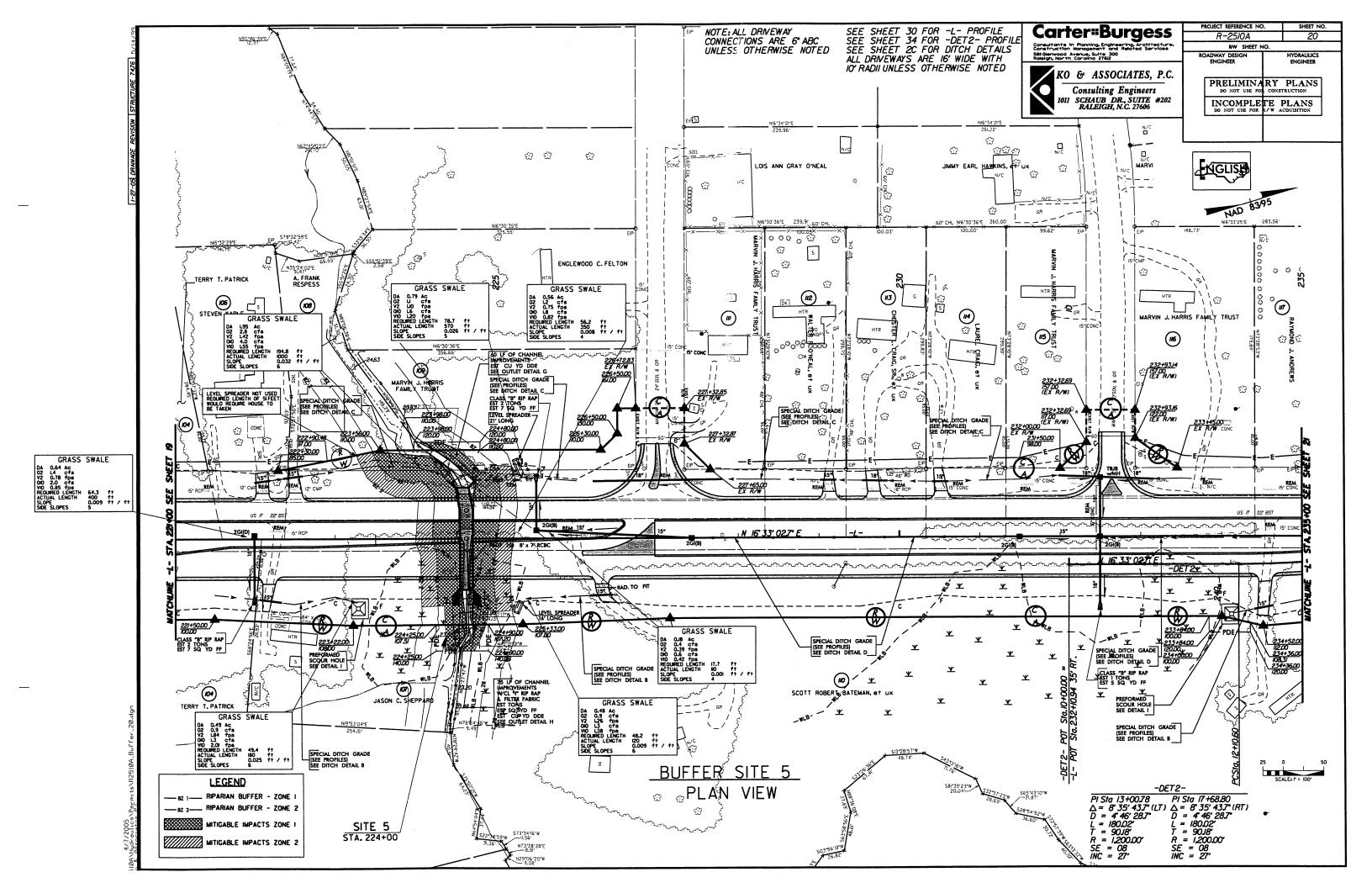
04-AUG-2005 15:00 tuss\rdy_ut\PF2914554 kamii AT P5214554

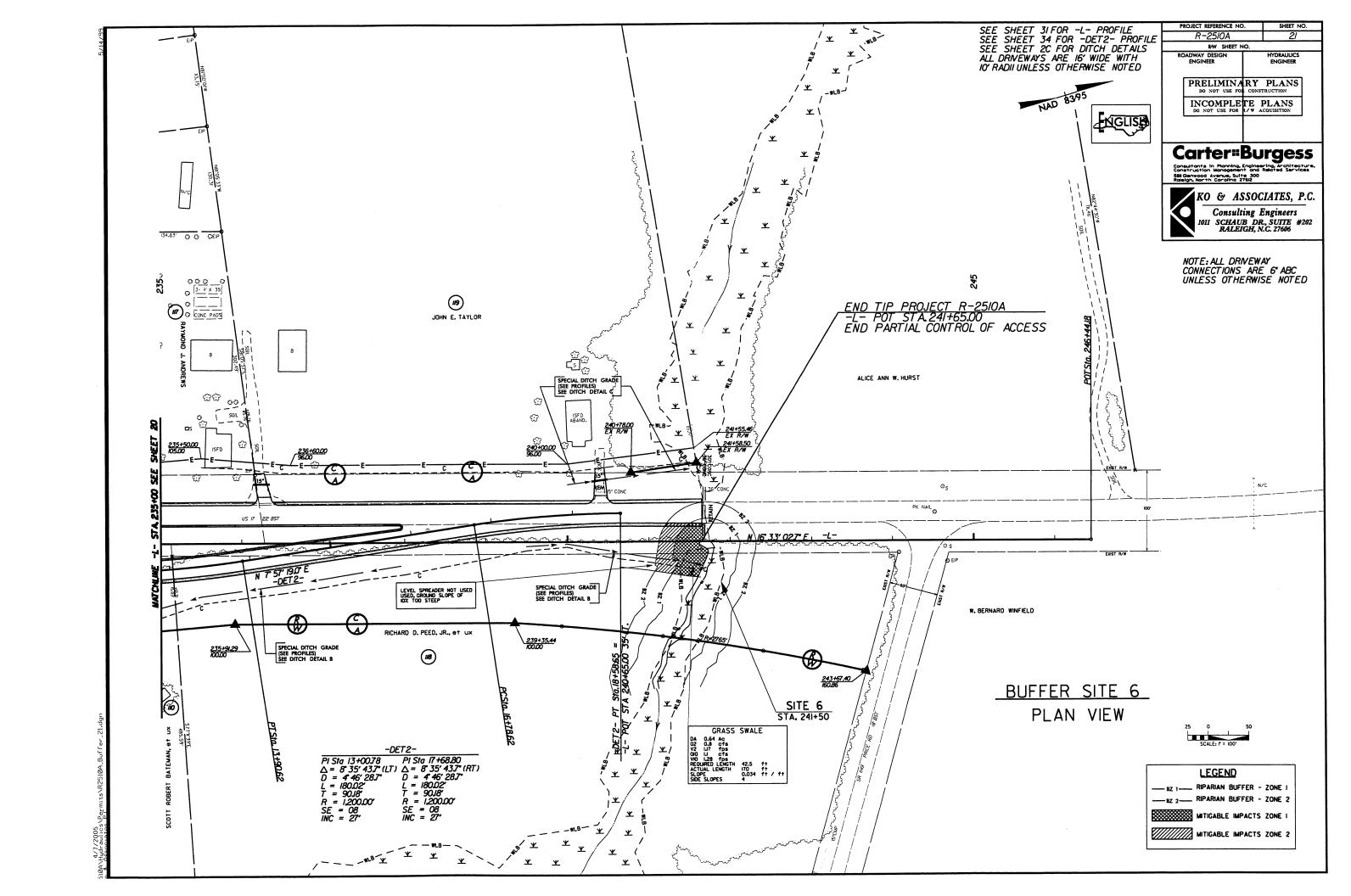


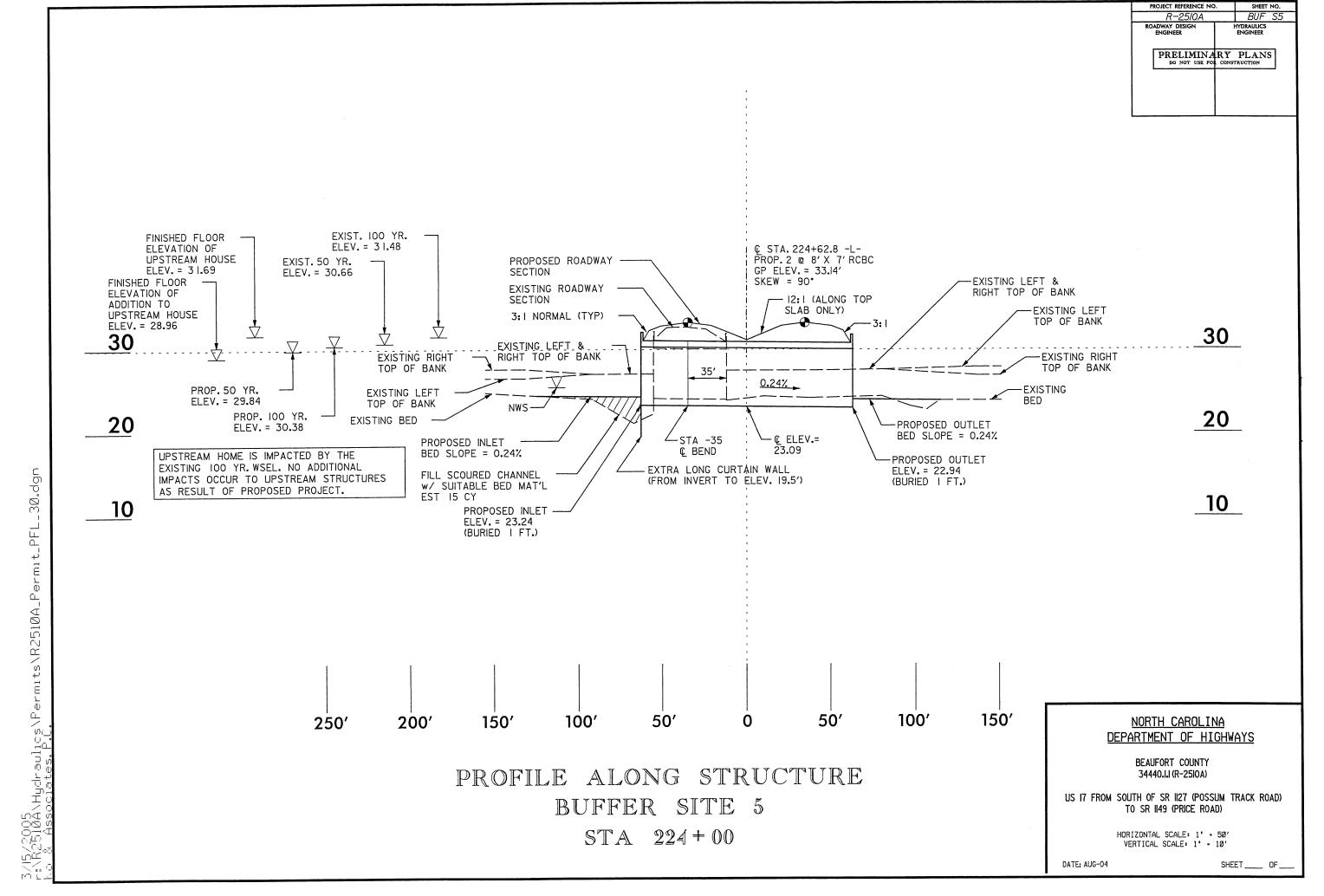


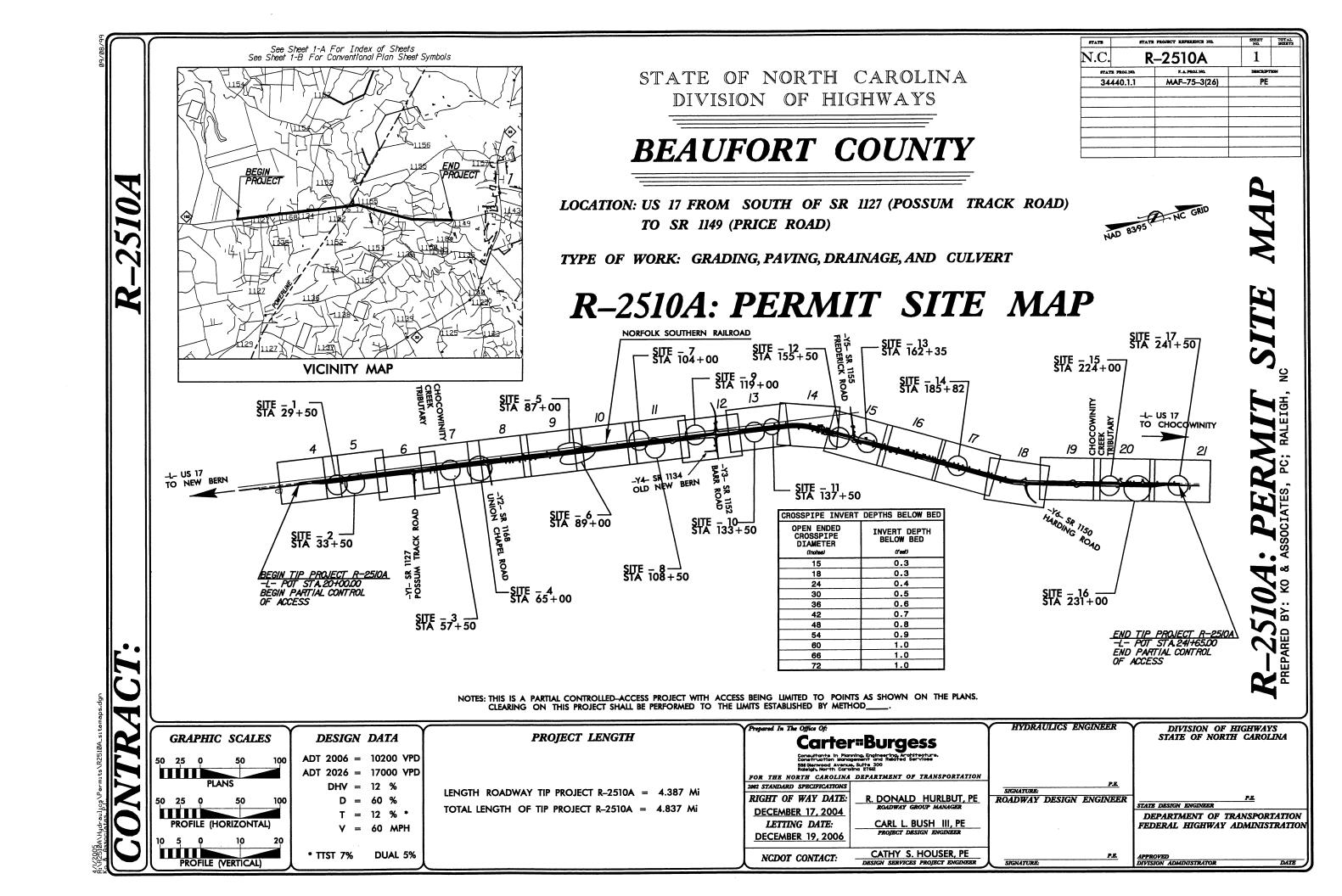


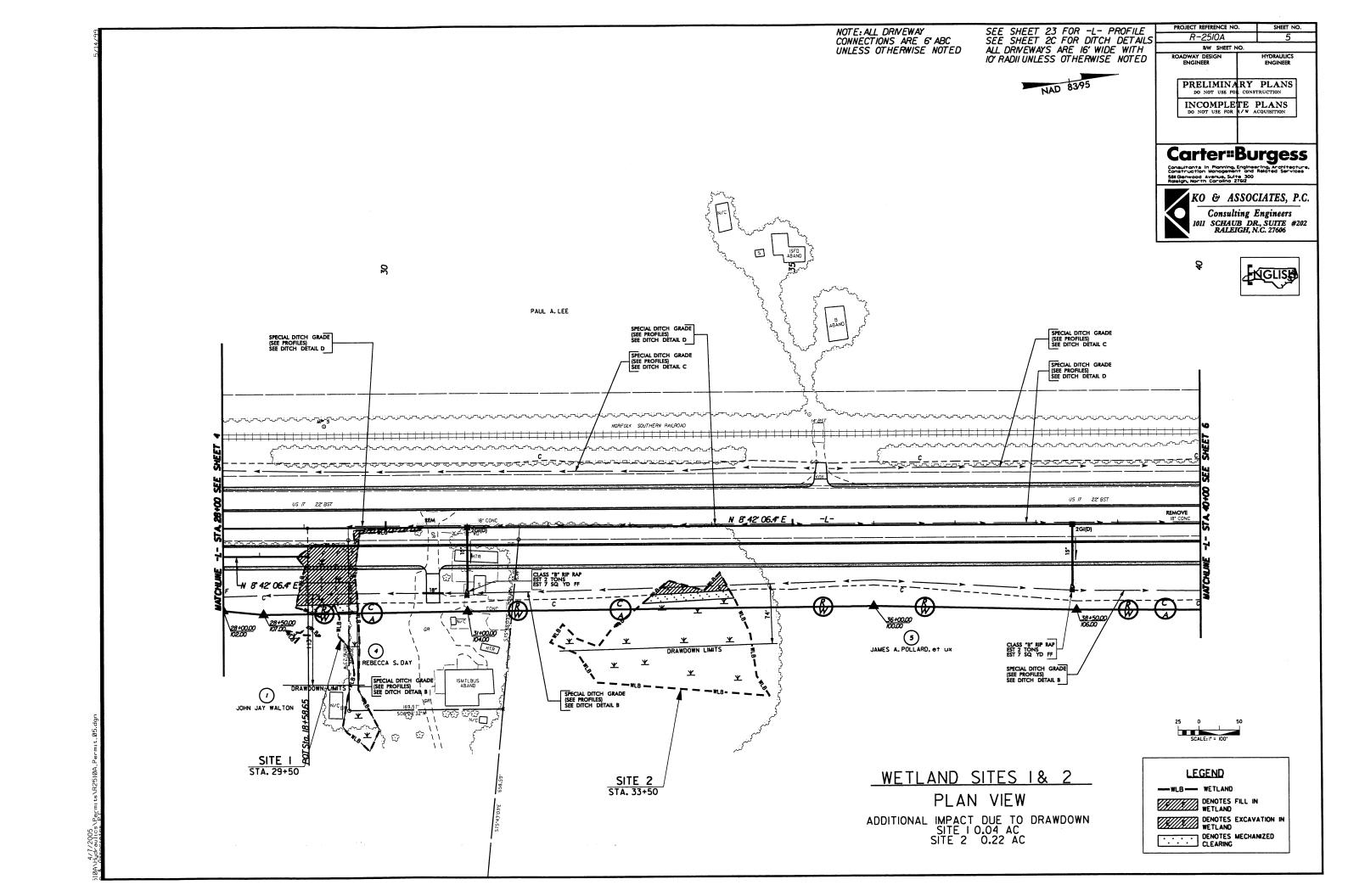


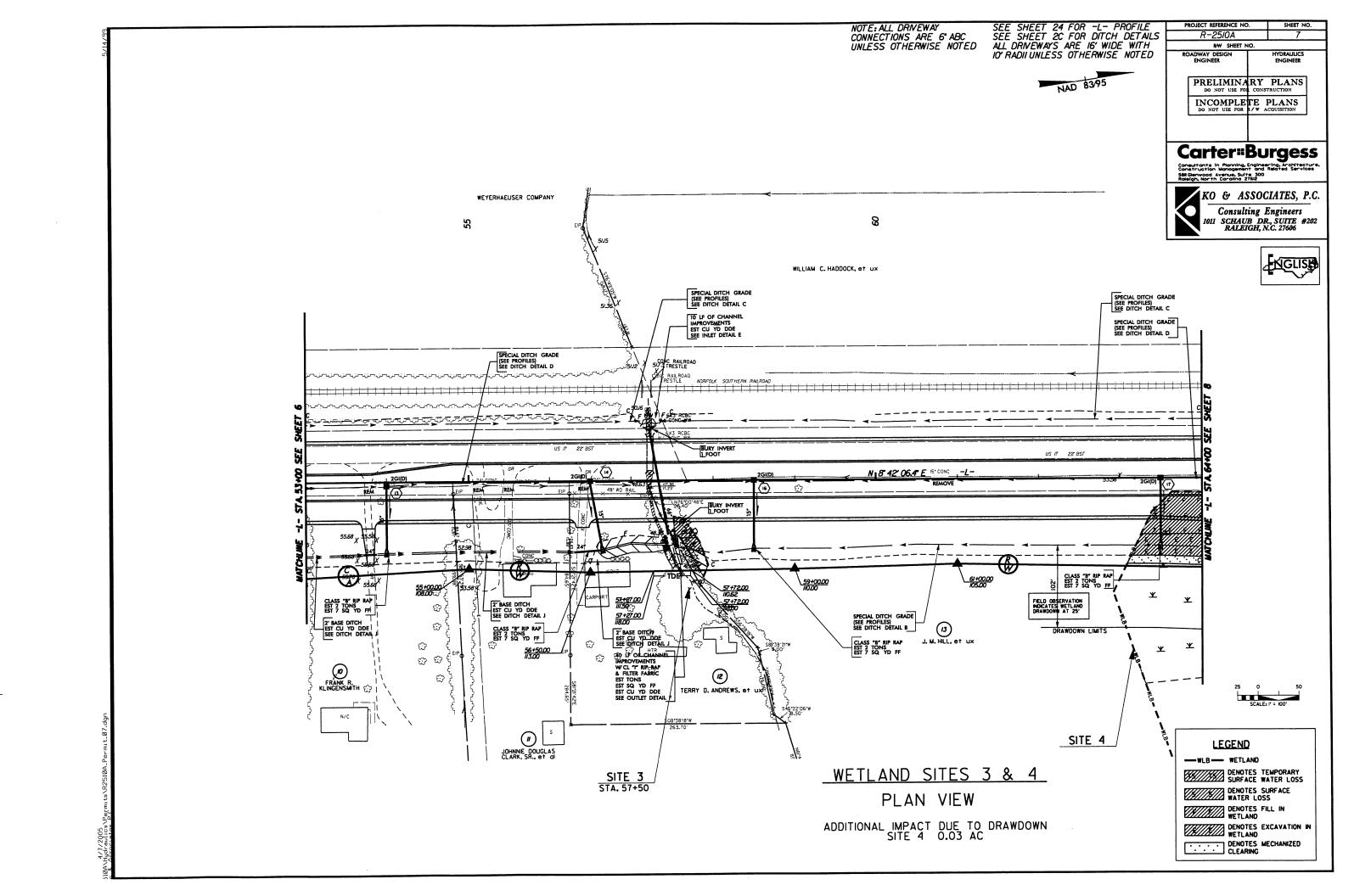


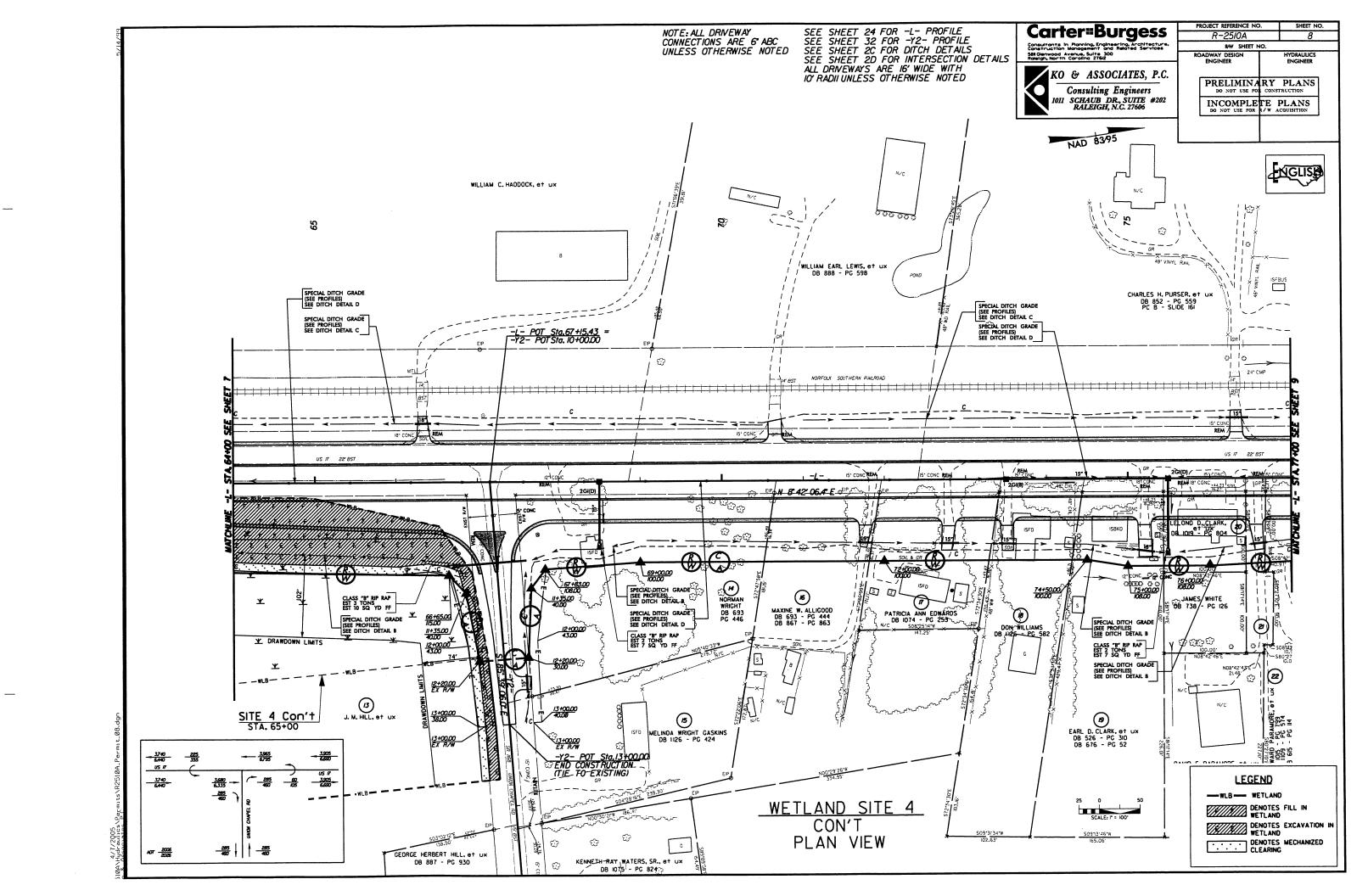


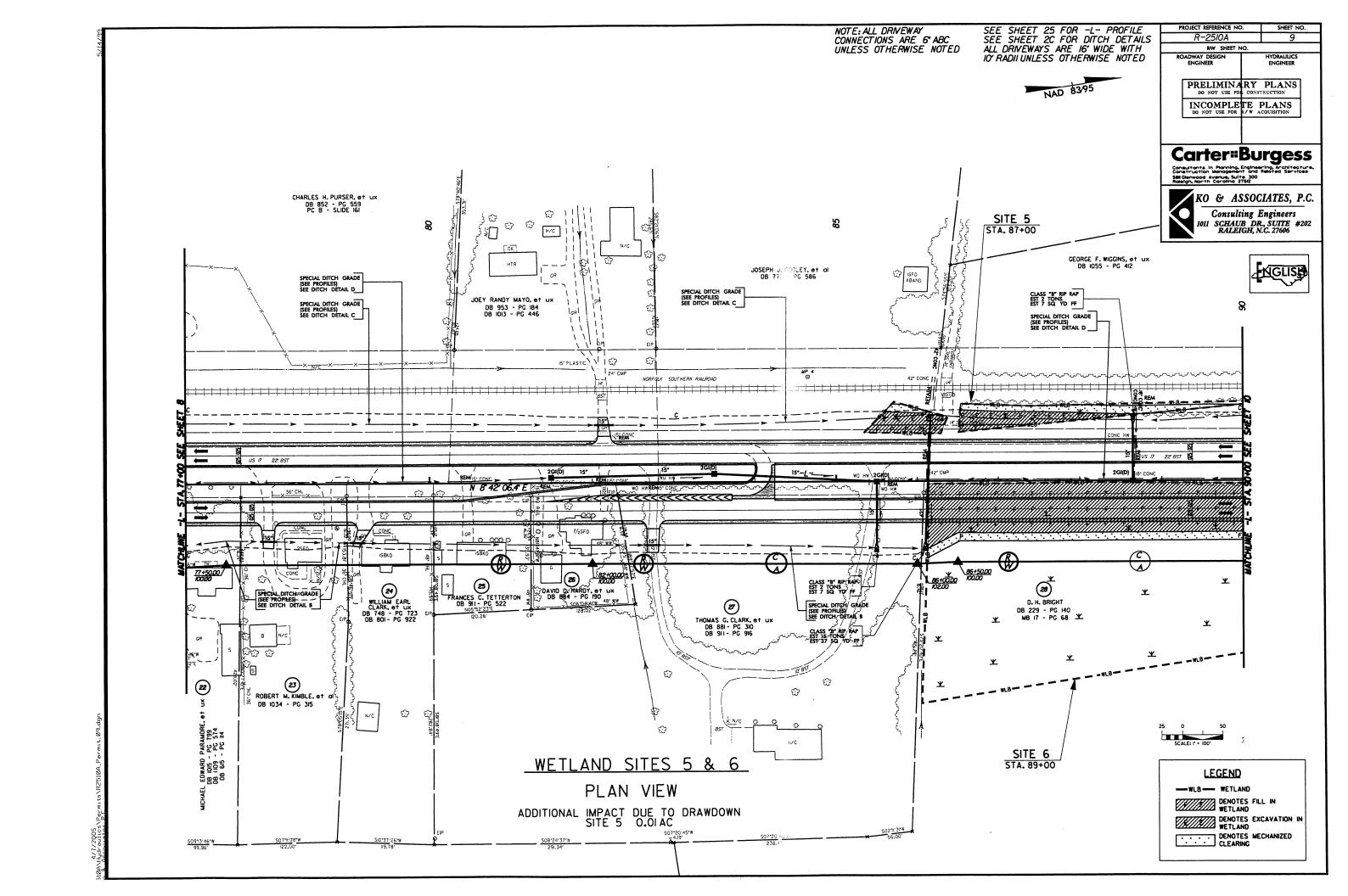


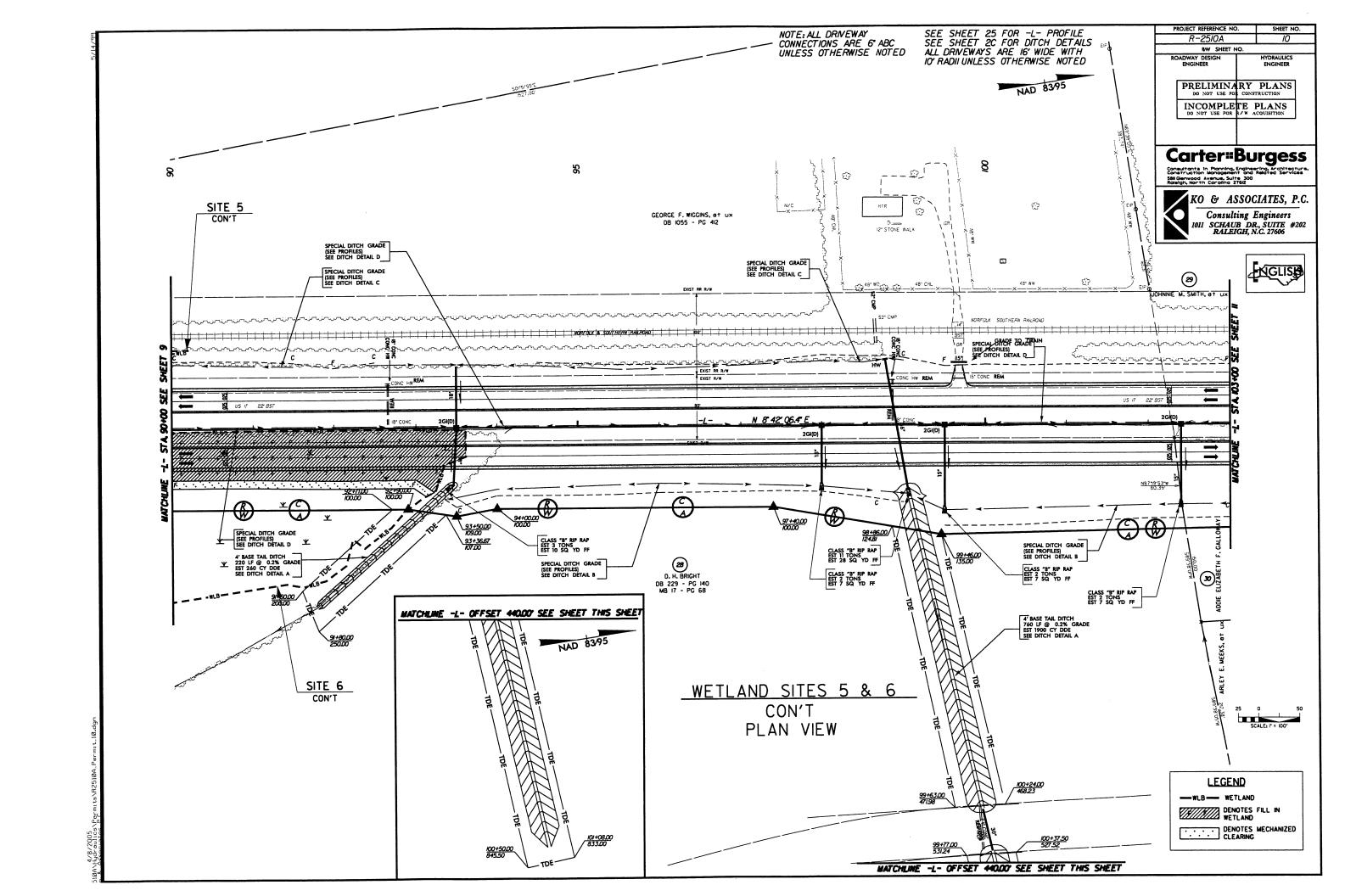


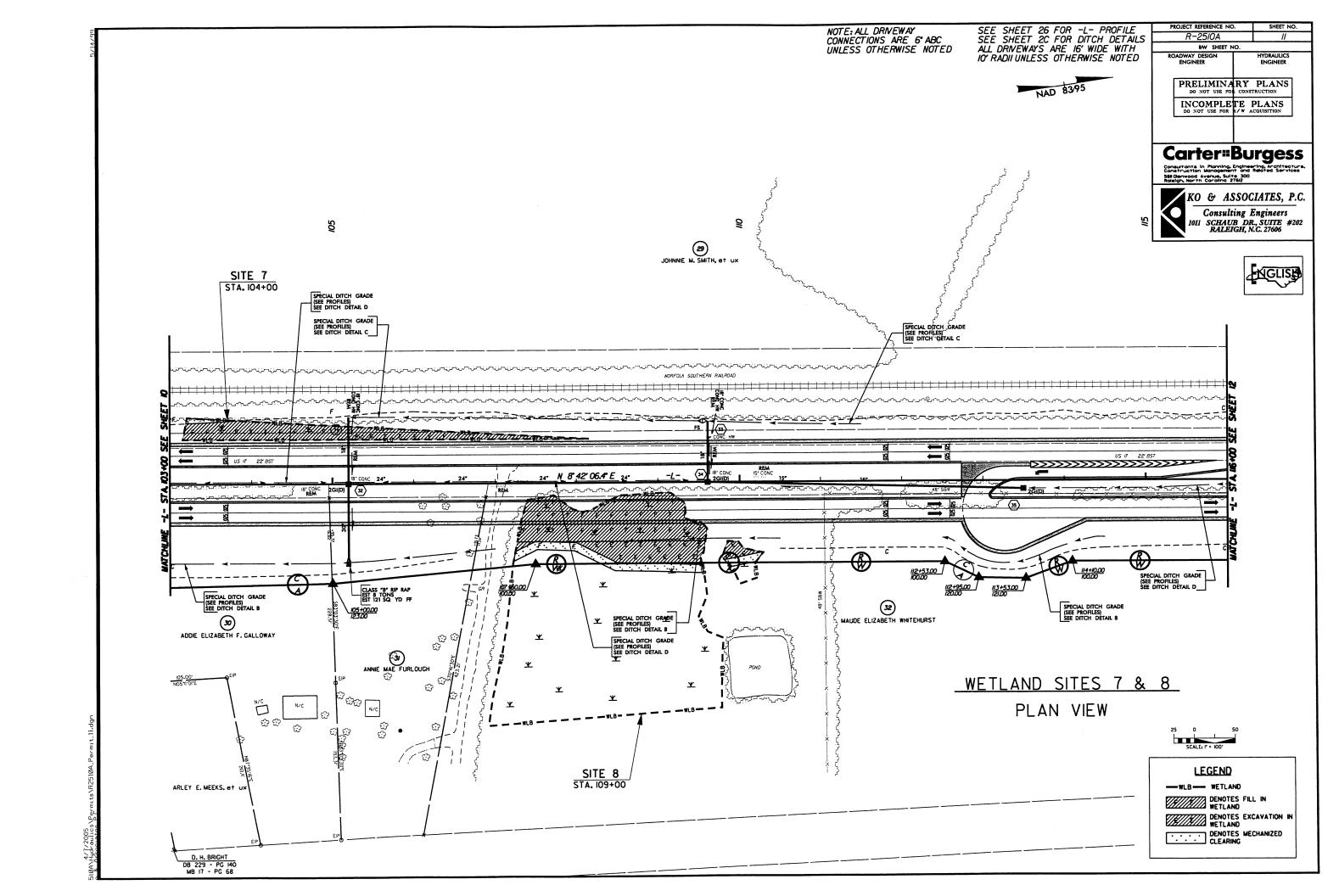


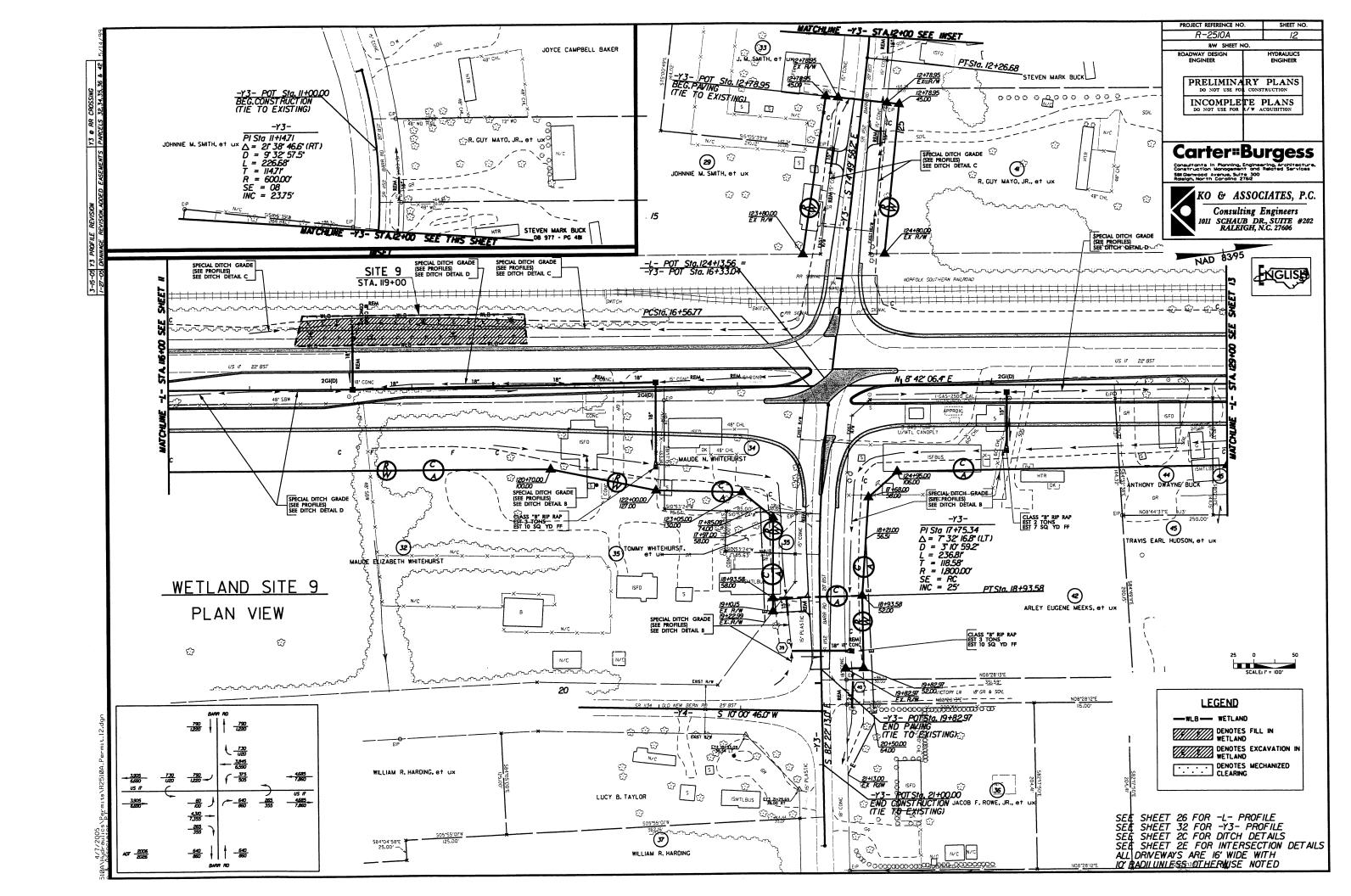


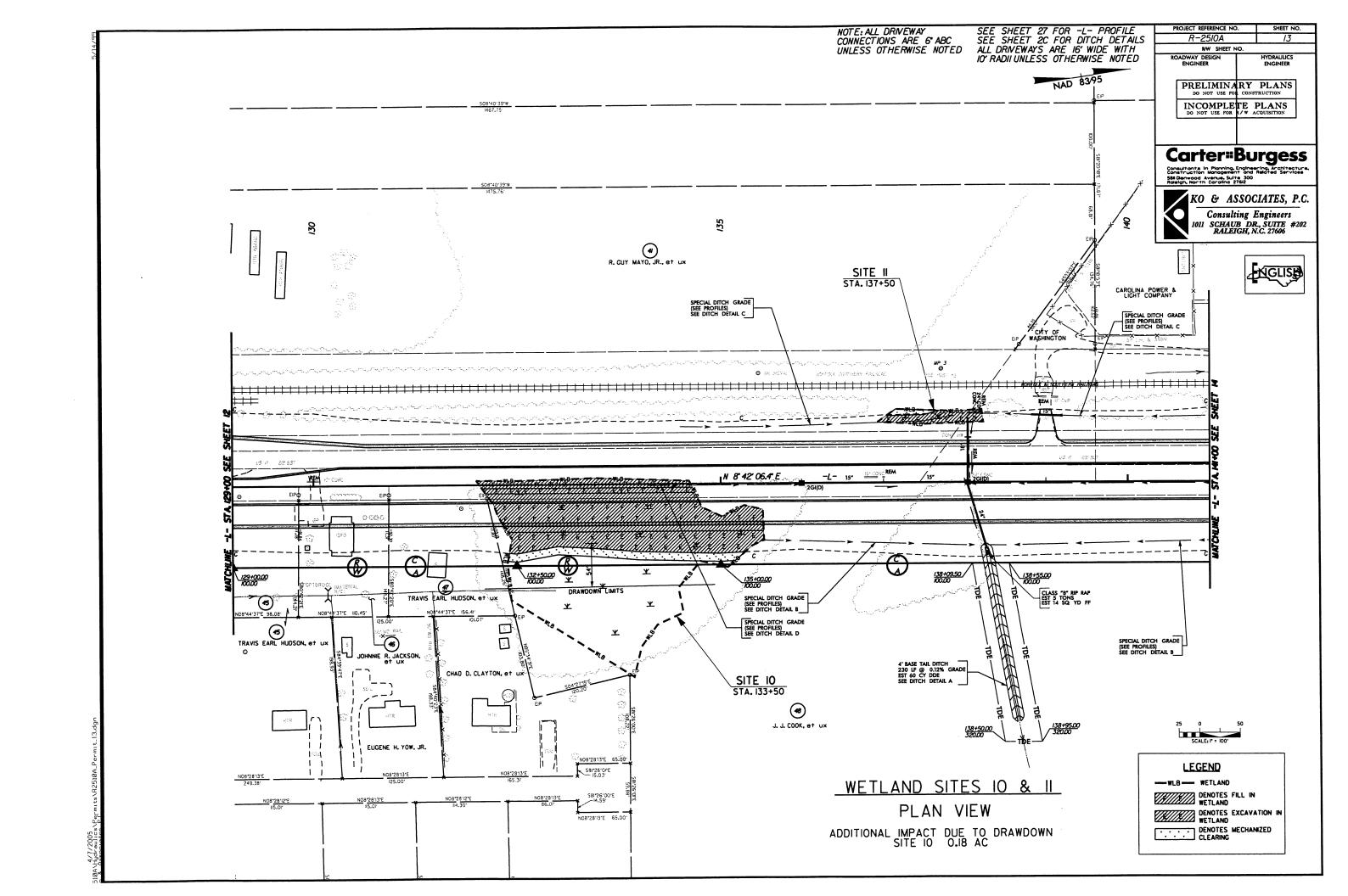


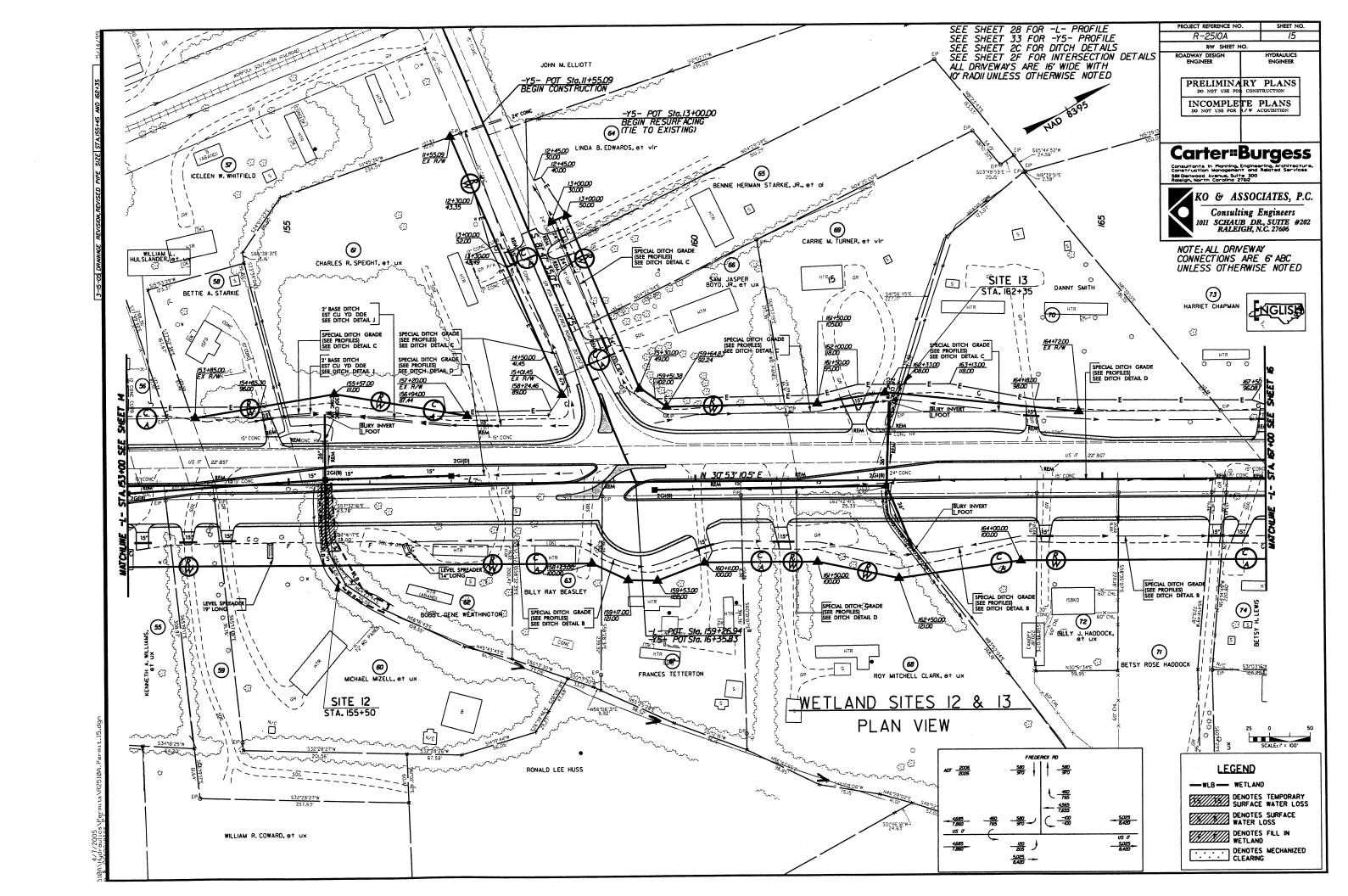


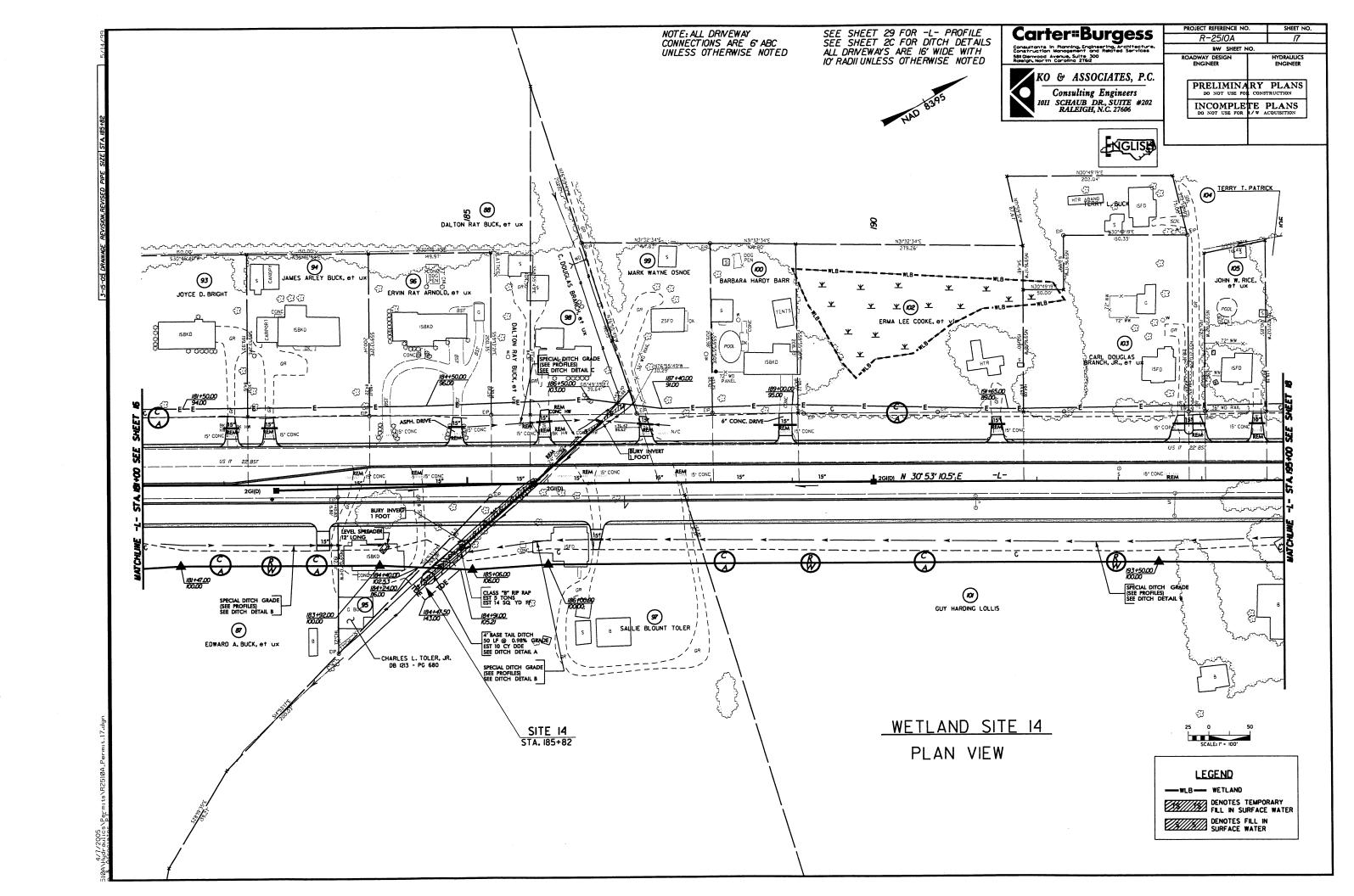


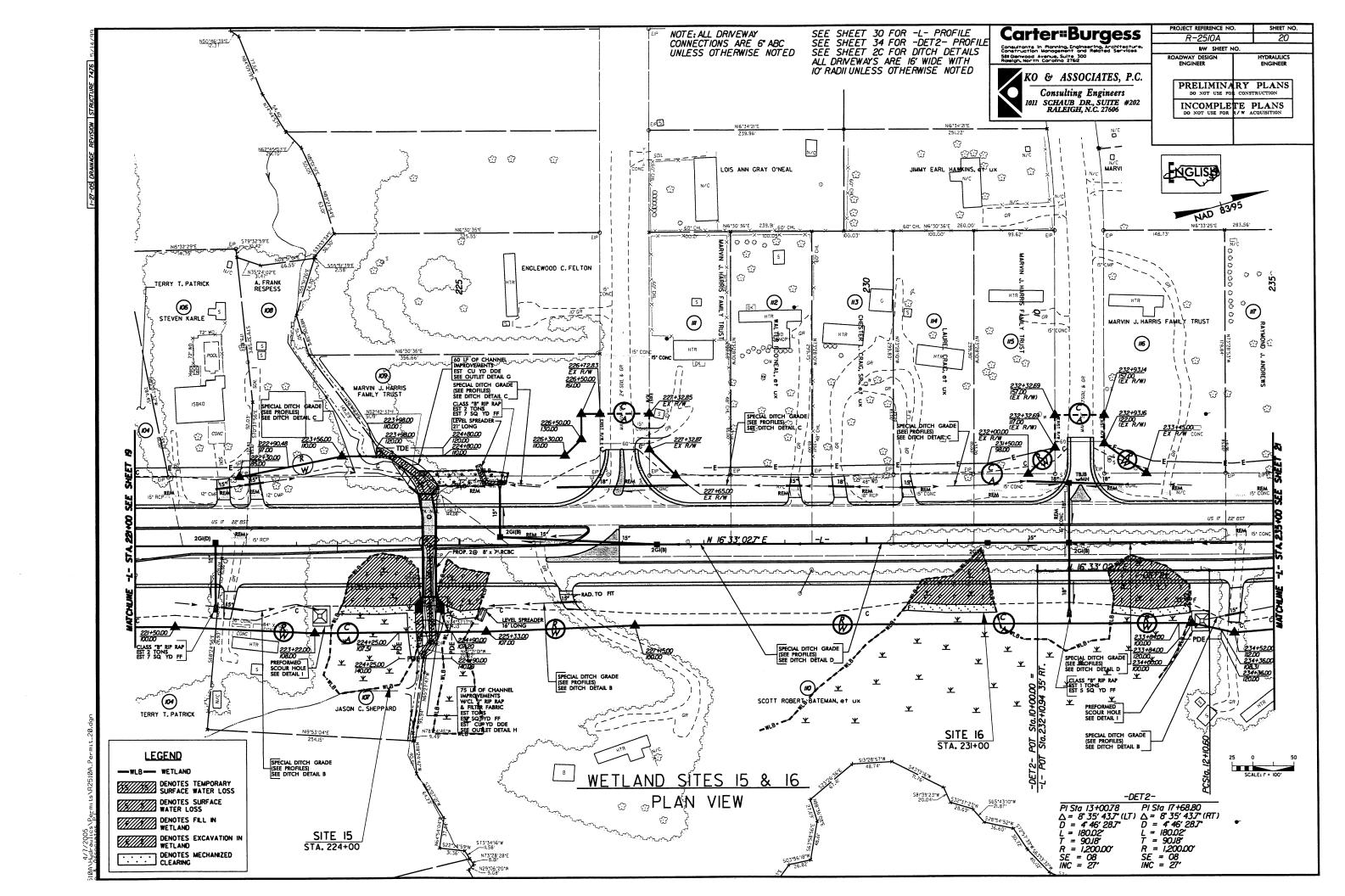


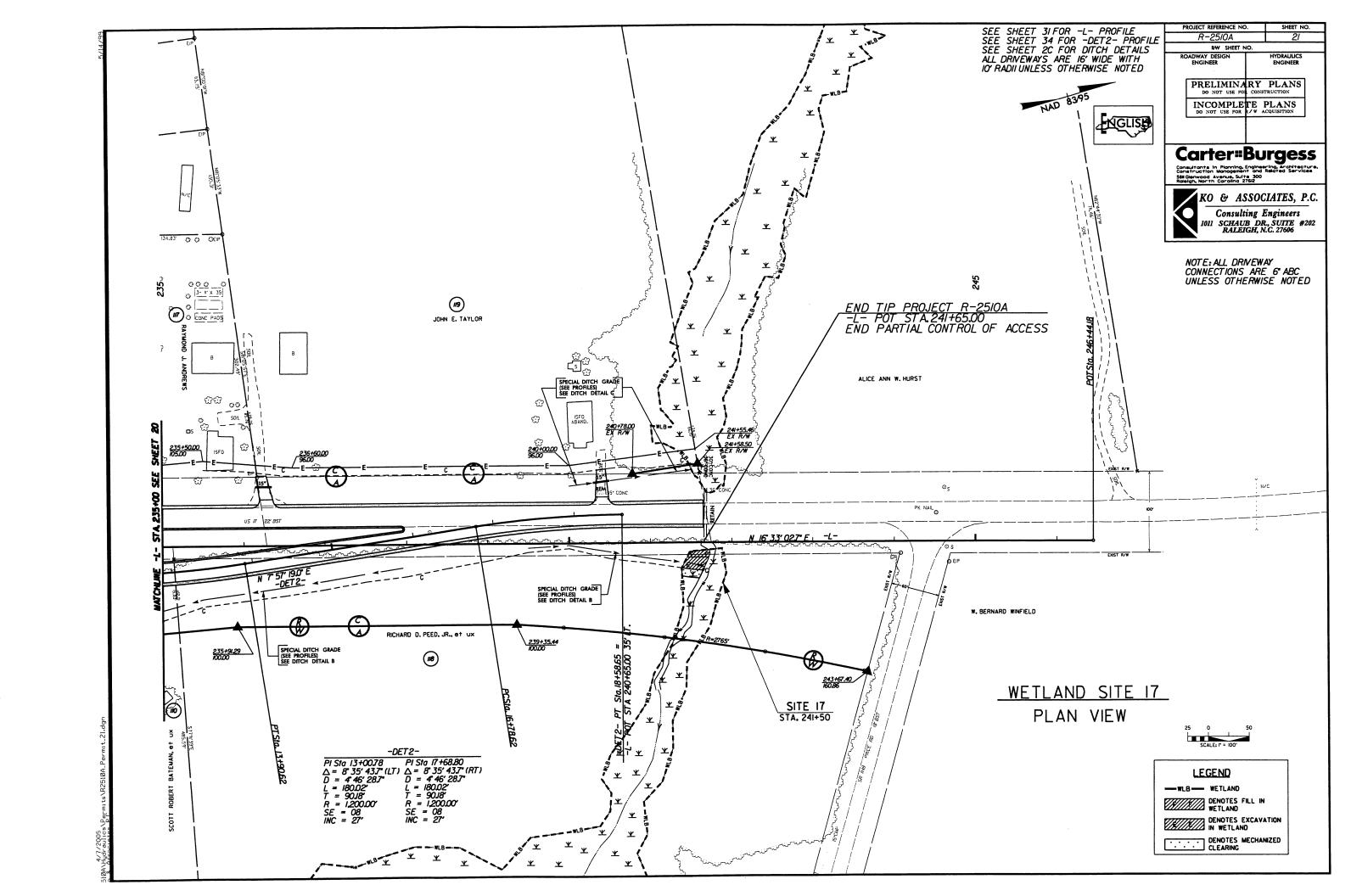


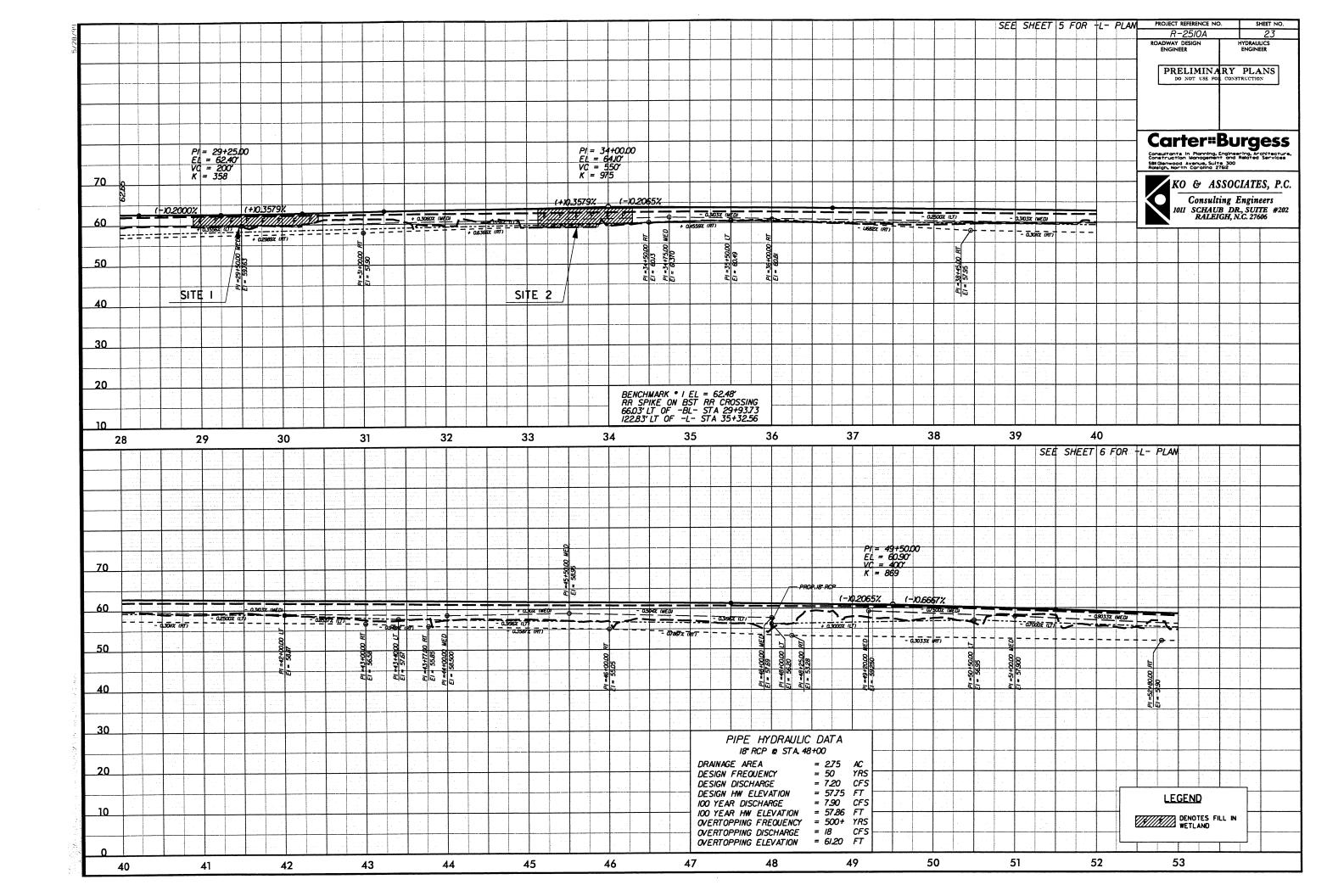


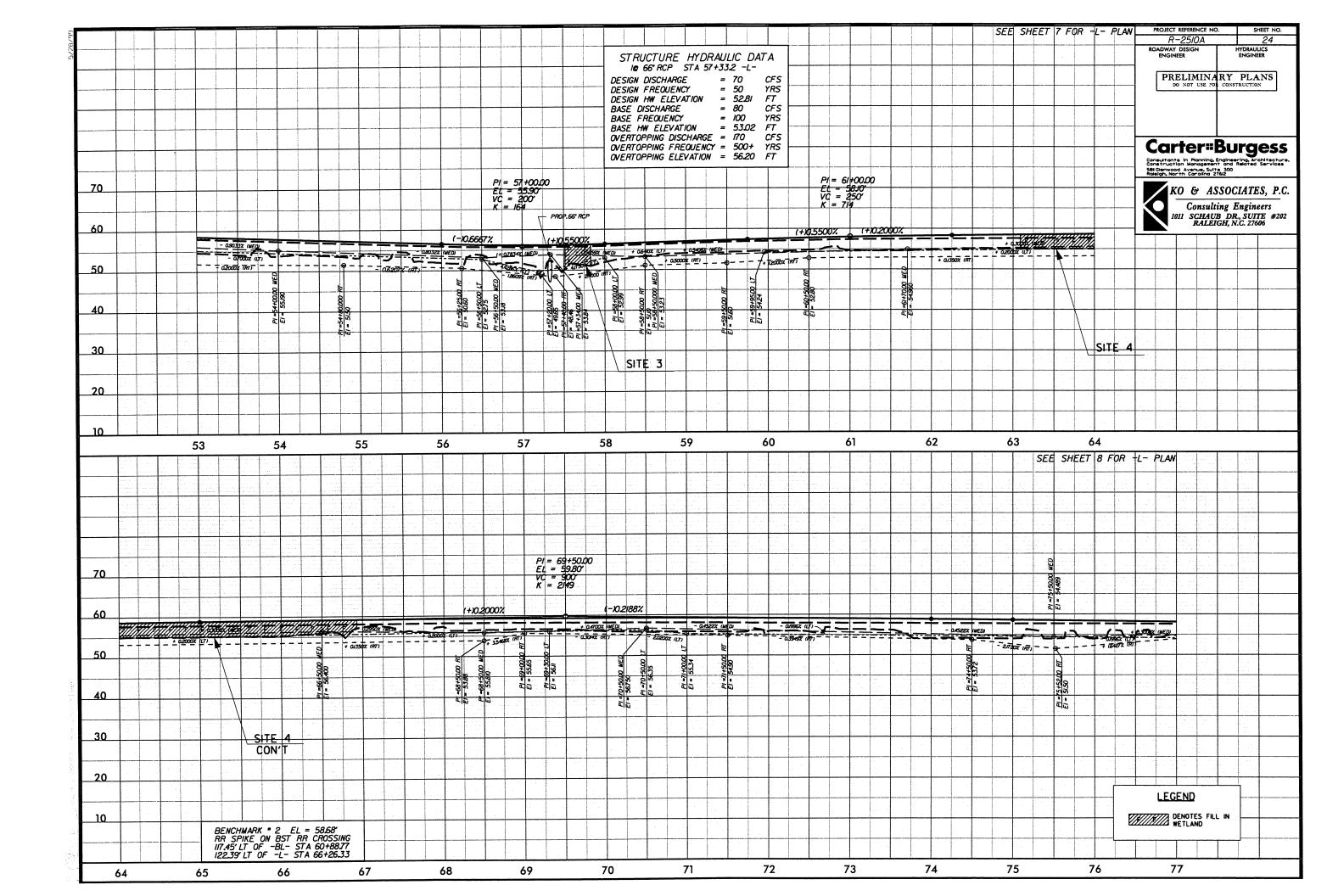


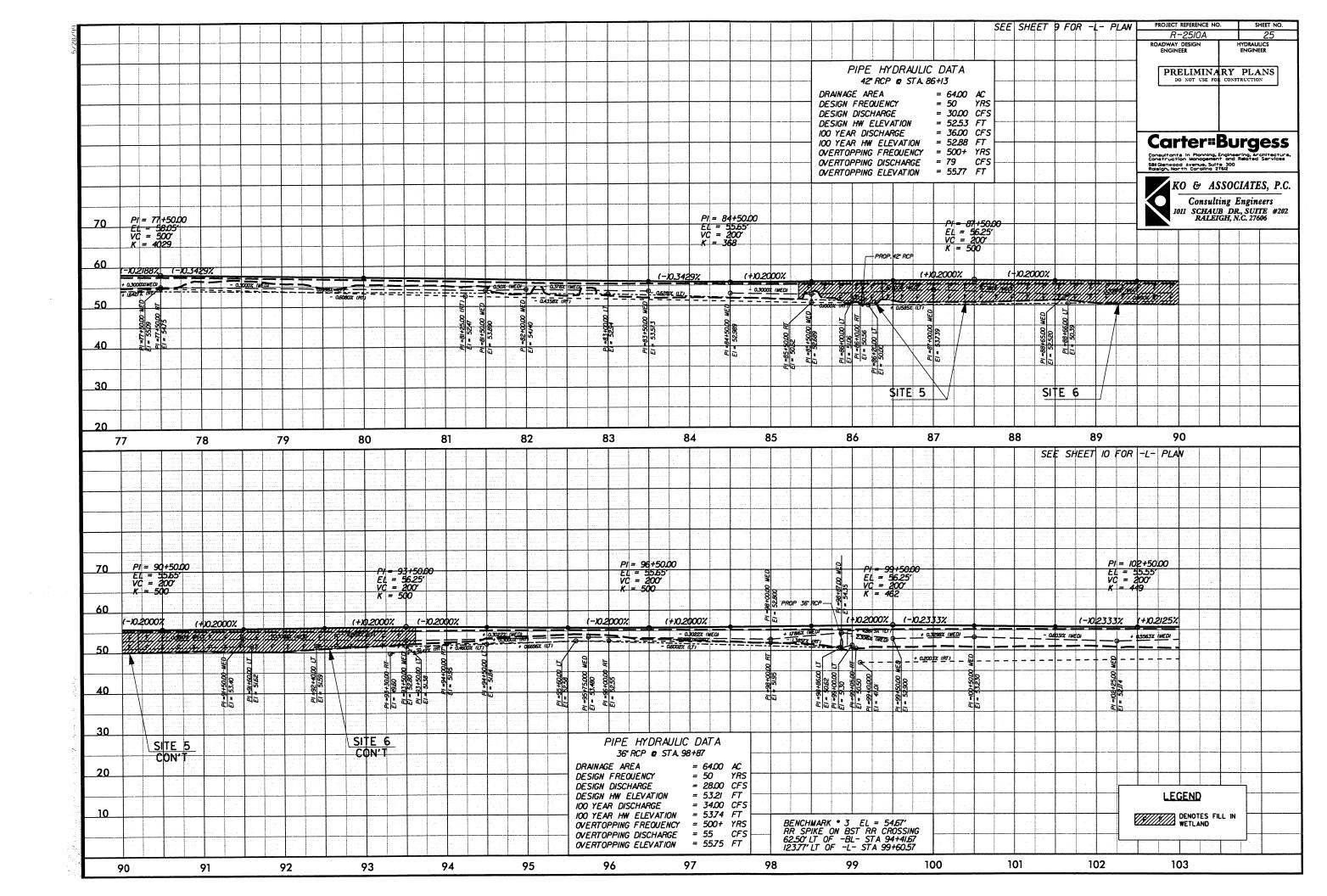


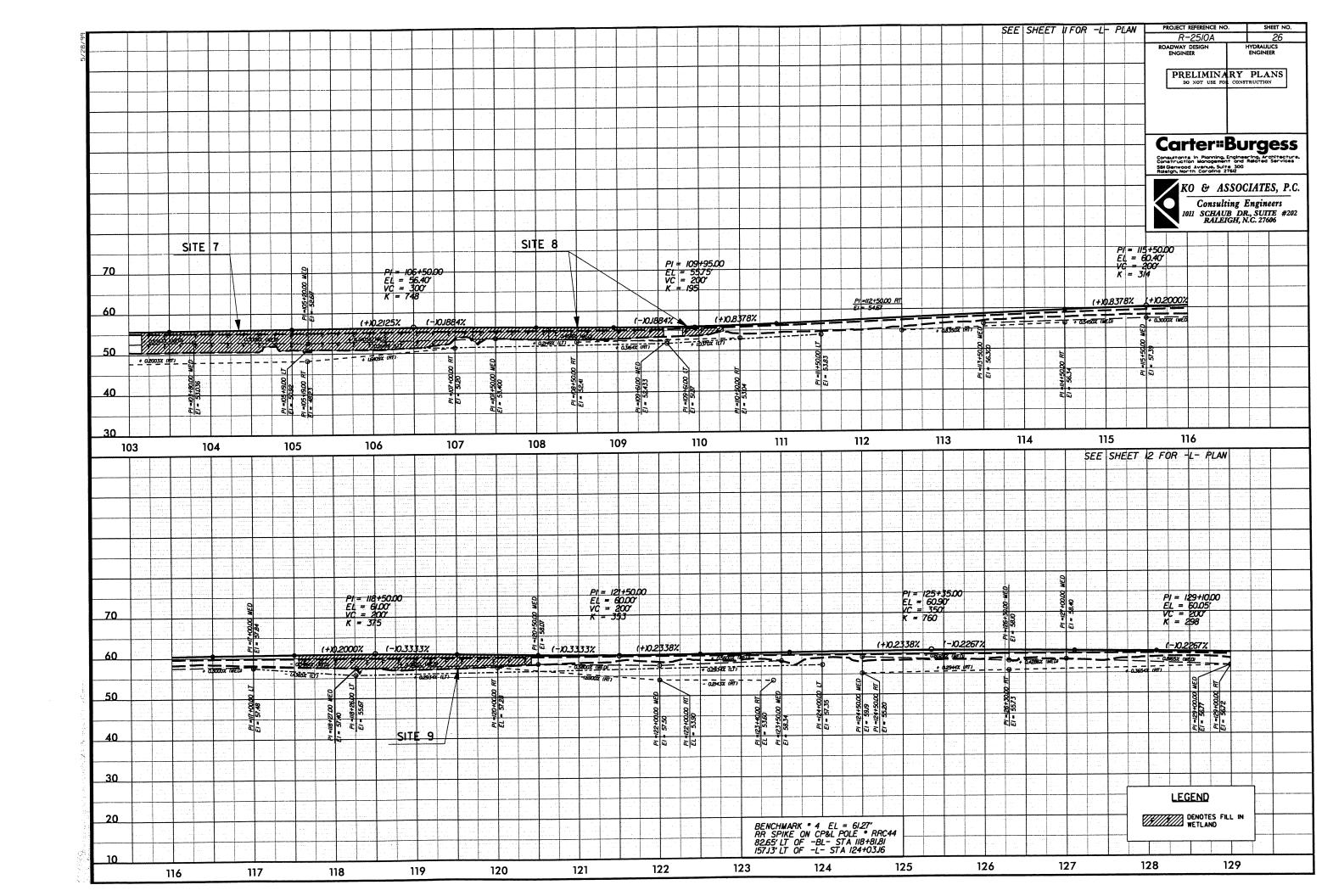


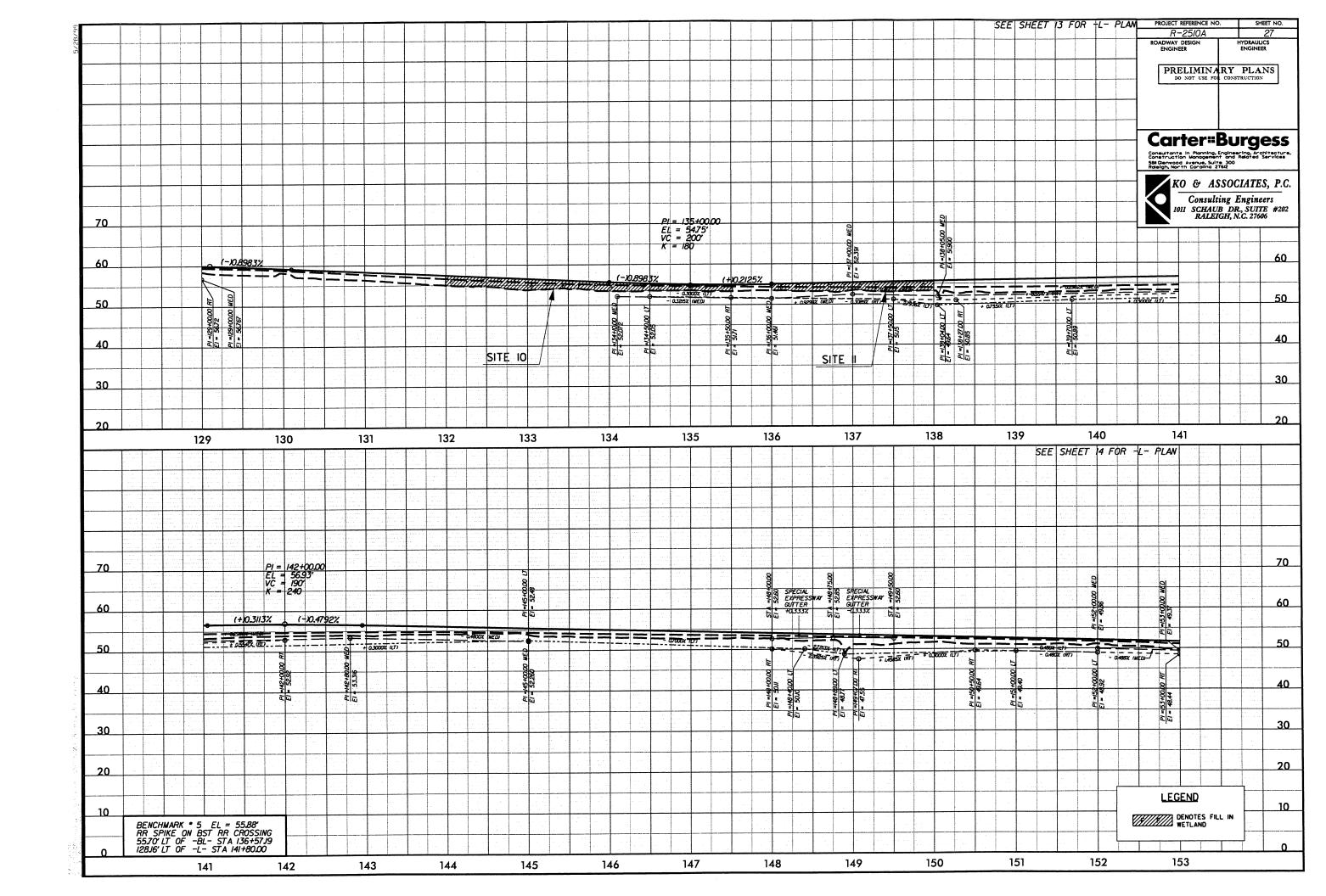


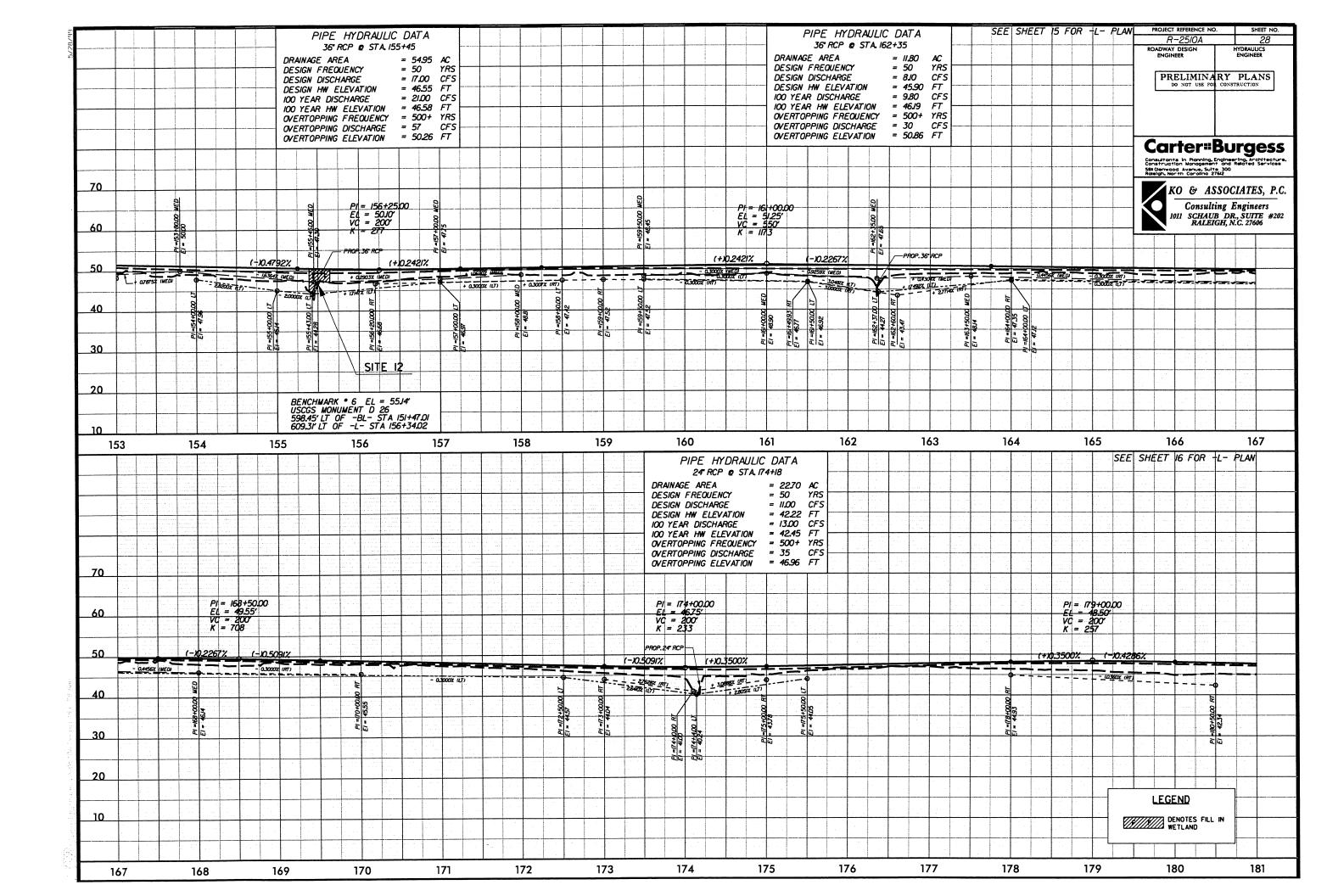


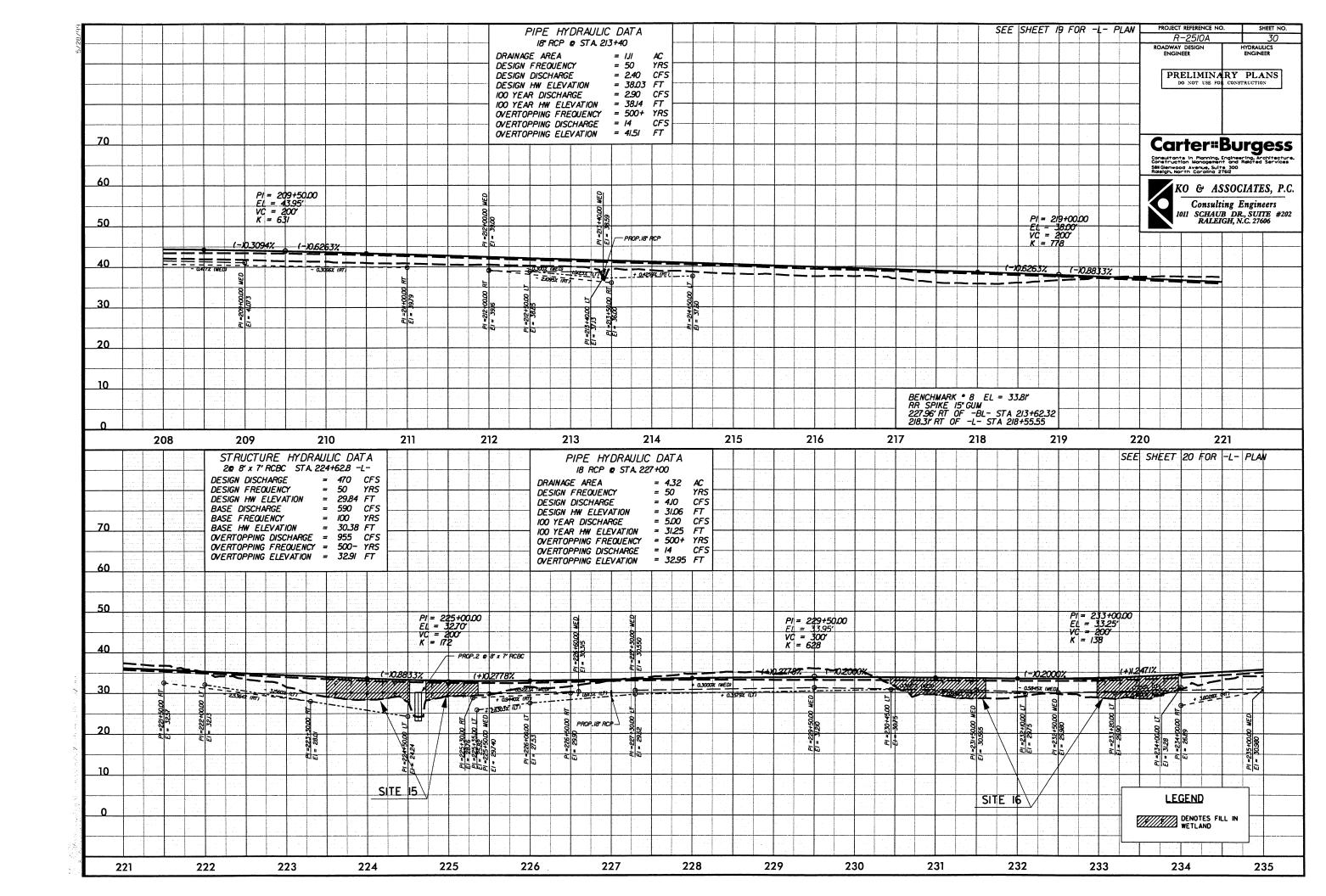


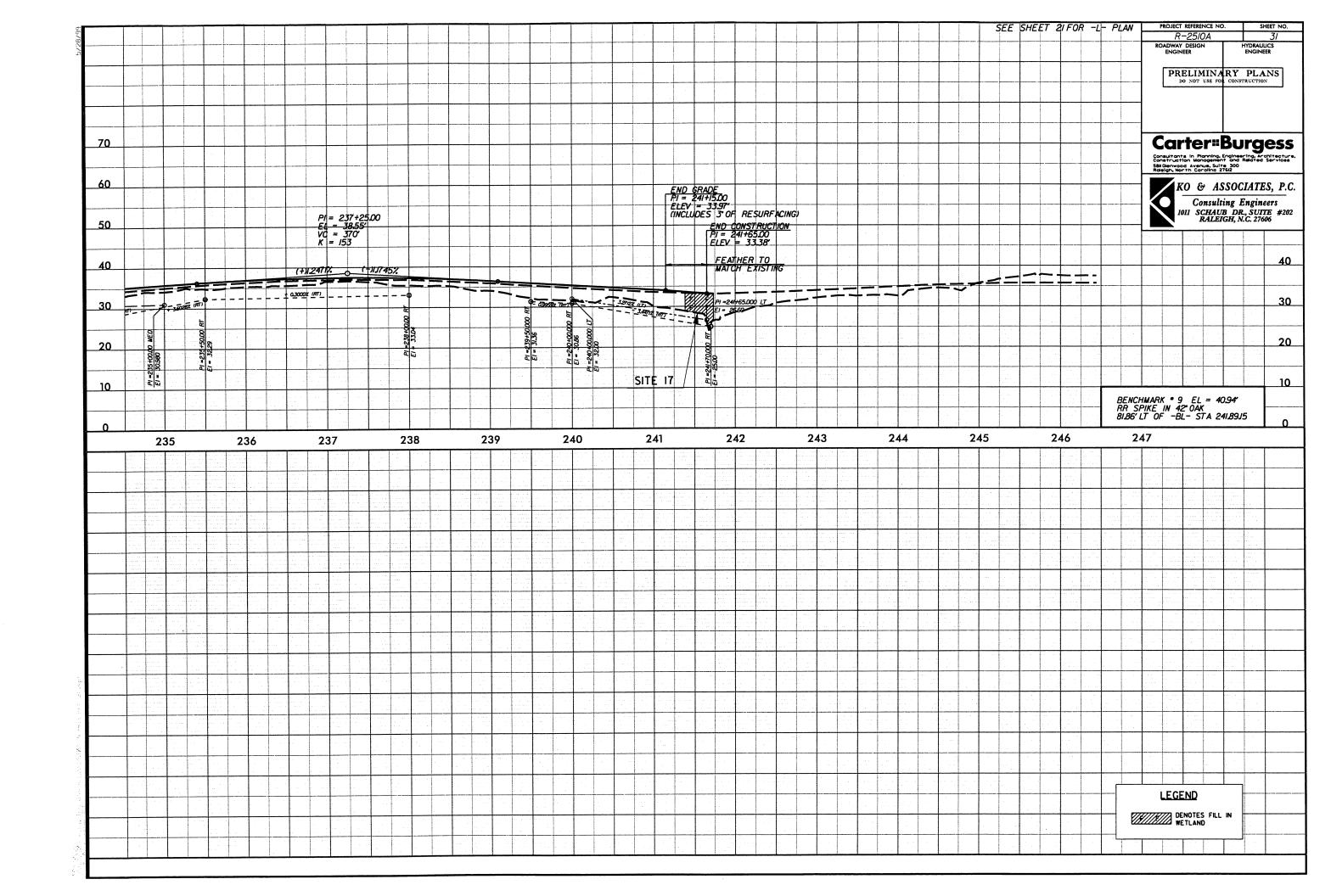


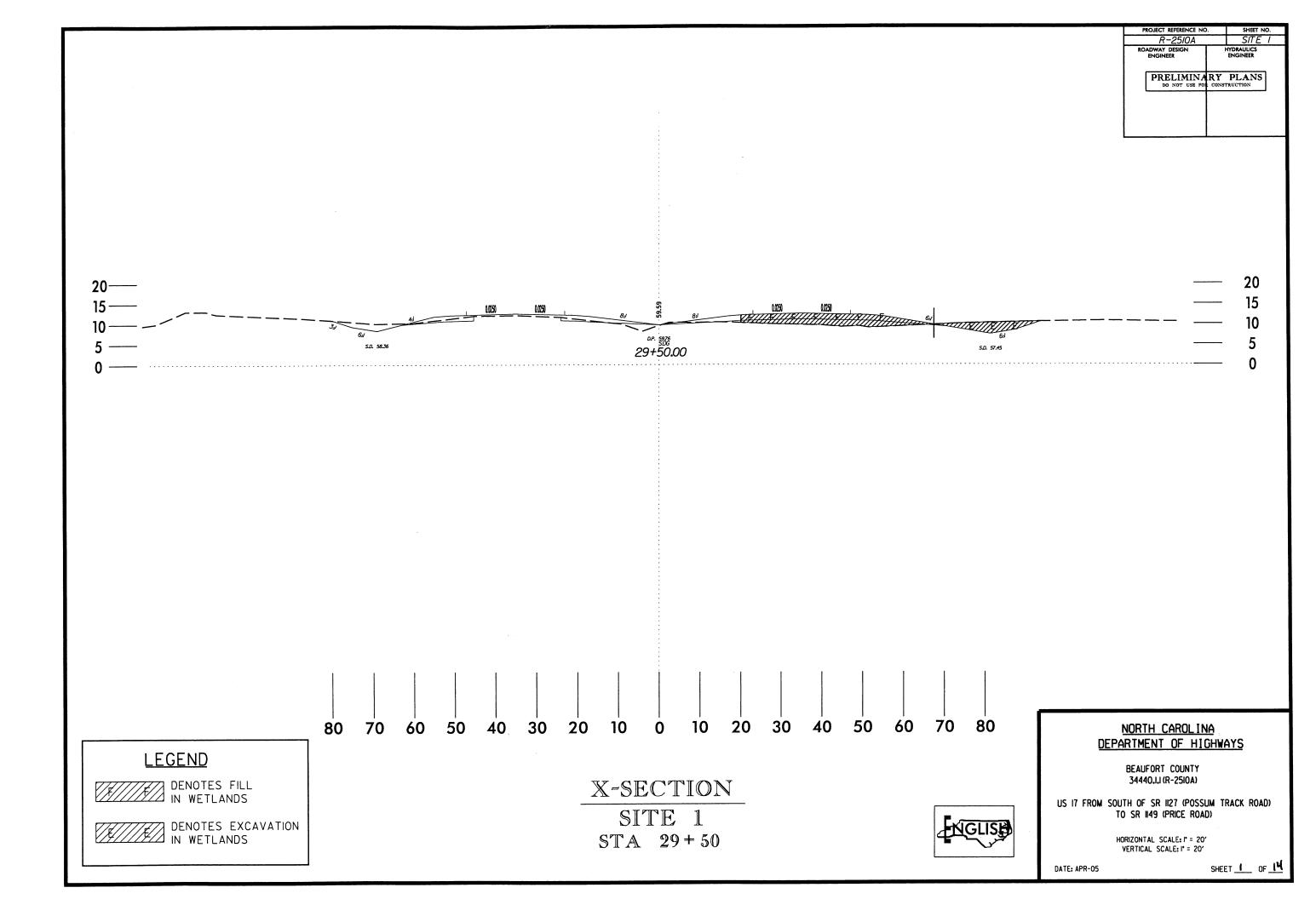




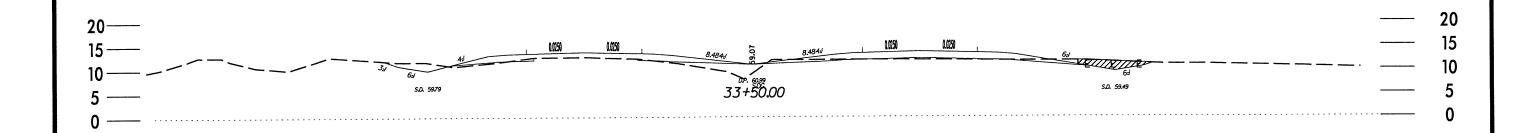








R-25/0A SITE 2 ROADWAY DESIGN HYDRAULICS ENGINEER PRELIMINARY PLANS DO NOT USE FOL CONSTRUCTION	PROJECT REFERENCE NO	. SHEET NO.
PRELIMINARY PLANS	R-2510A	SITE 2





LEGEND

DENOTES EXCAVATION
IN WETLANDS

X=SECTION
SITE 2
STA 33 + 50



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

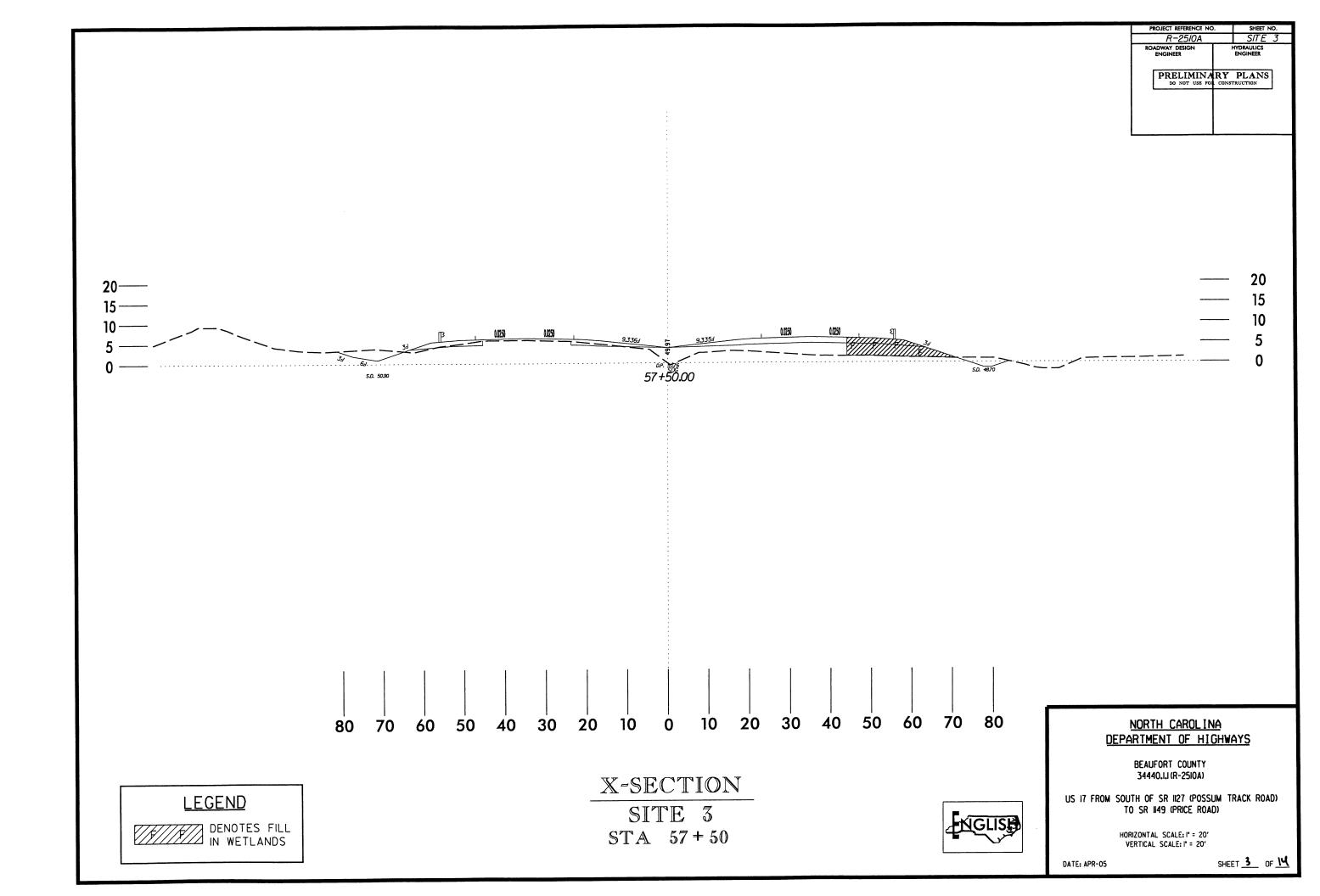
BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD)
TO SR 1149 (PRICE ROAD)

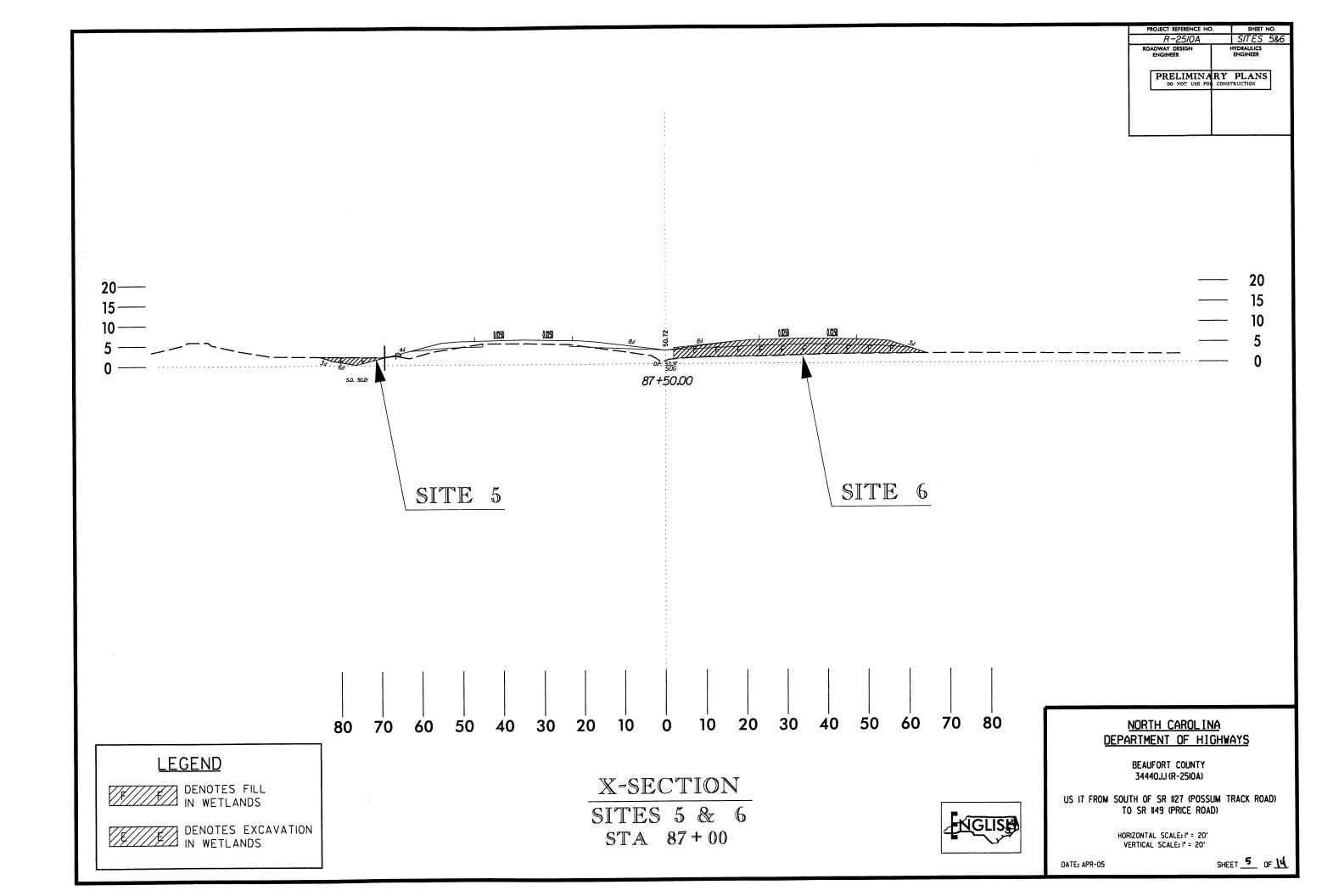
HORIZONTAL SCALE: I" = 20' VERTICAL SCALE: I" = 20'

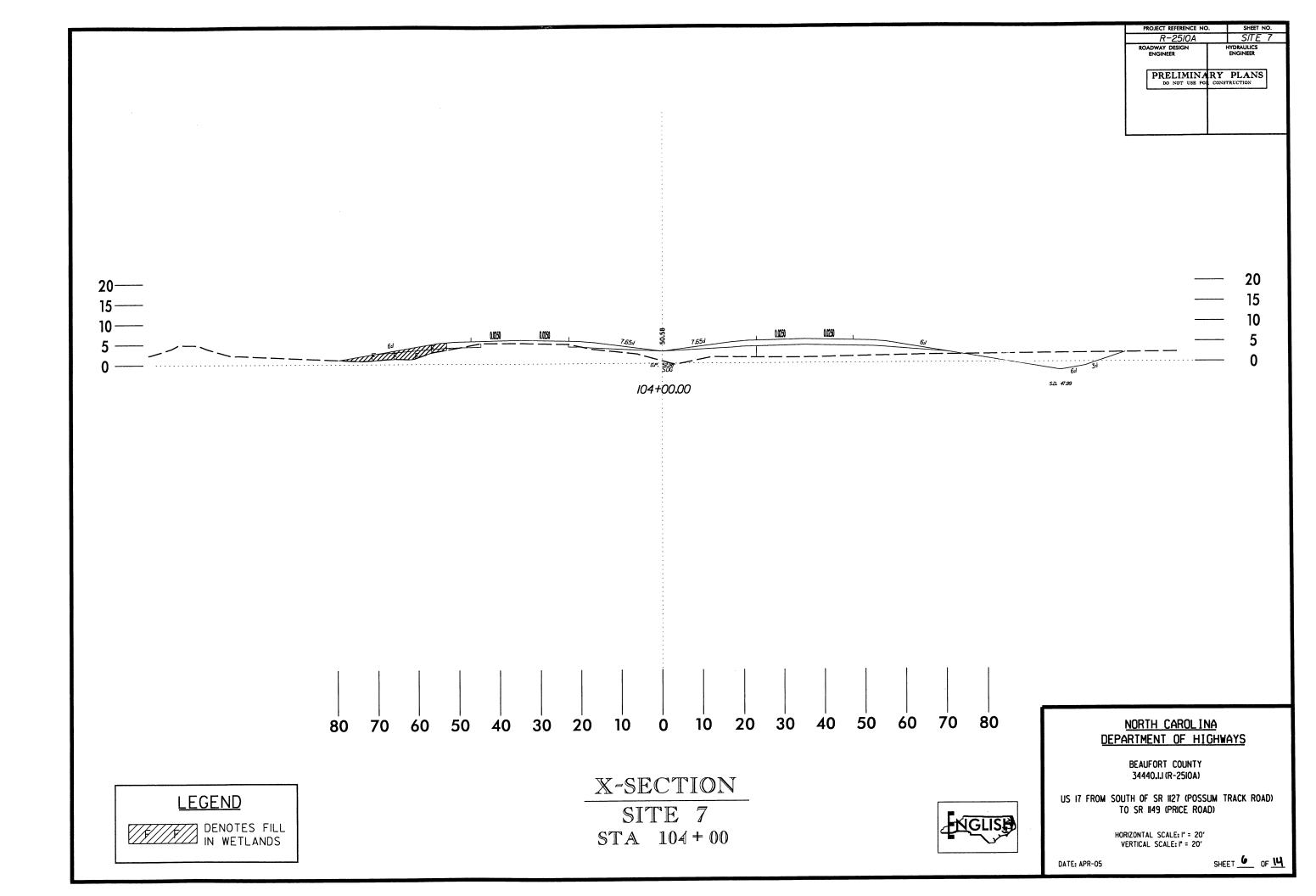
DATE: APR-05

SHEET 2 OF 14

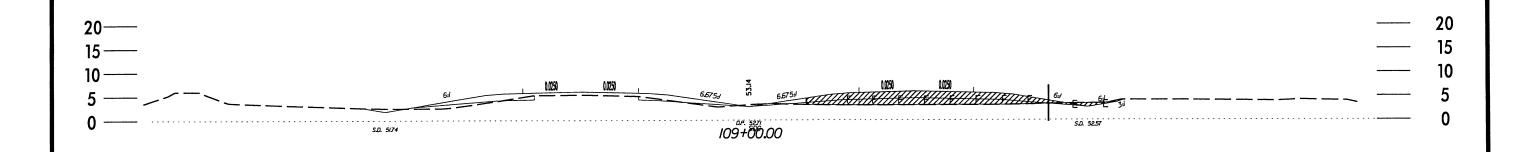


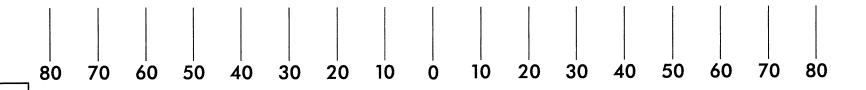
ROADWAY DESIGN ENGINEER PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION 65+00.00 30 60 10 10 20 70 30 20 40 50 NORTH CAROLINA DEPARTMENT OF HIGHWAYS **LEGEND** BEAUFORT COUNTY 34440.I.I (R-2510A) X-SECTION DENOTES FILL IN WETLANDS US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) SITE 4 TO SR 1149 (PRICE ROAD) DENOTES EXCAVATION IN WETLANDS STA 65 + 00HORIZONTAL SCALE: I* = 20' VERTICAL SCALE: I* = 20' SHEET 4 OF 14 DATE: APR-05





SITF 8
SILE
HYDRAULICS ENGINEER
RY PLANS CONSTRUCTION





LEGEND



DENOTES EXCAVATION IN WETLANDS

X-SECTION

SITE 8 STA 109 + 00



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-25I0A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD)
TO SR 1149 (PRICE ROAD)

HORIZONTAL SCALE: I" = 20' VERTICAL SCALE: I" = 20'

DATE: APR-05

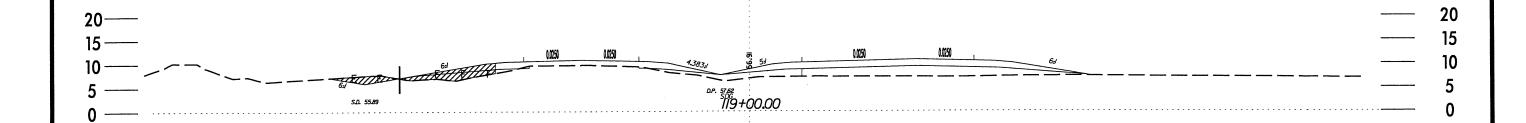
SHEET OF 14

PROJECT REFRENCE NO. SHET NO.

R—2510A

ROADWAY DESIGN
BNGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

LEGEND



DENOTES EXCAVATION IN WETLANDS

X-SECTION
SITE 9
STA 119 + 00



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD)
TO SR 1149 (PRICE ROAD)

HORIZONTAL SCALE: I* = 20' VERTICAL SCALE: I* = 20'

DATE: APR-05

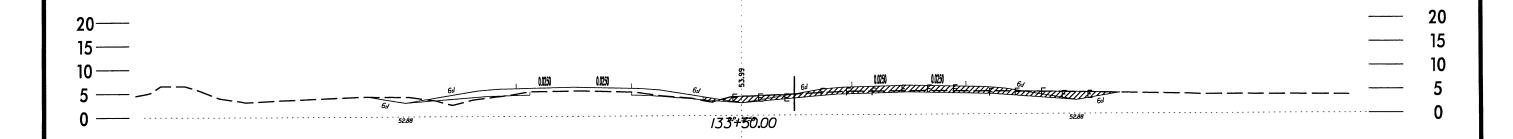
SHEET 8 OF 14

PROJECT REFERENCE NO. SHEET NO.

R-2510A SITE 10

ROADWAY DESIGN HYDRAUJUCS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



 30
 70
 60
 50
 40
 30
 20
 10
 0
 10
 20
 30
 40
 50
 60
 70
 80

LEGEND

DENOTES FILL IN WETLANDS

DENOTES EXCAVATION IN WETLANDS

X-SECTION
SITE 10
STA 133 + 50



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

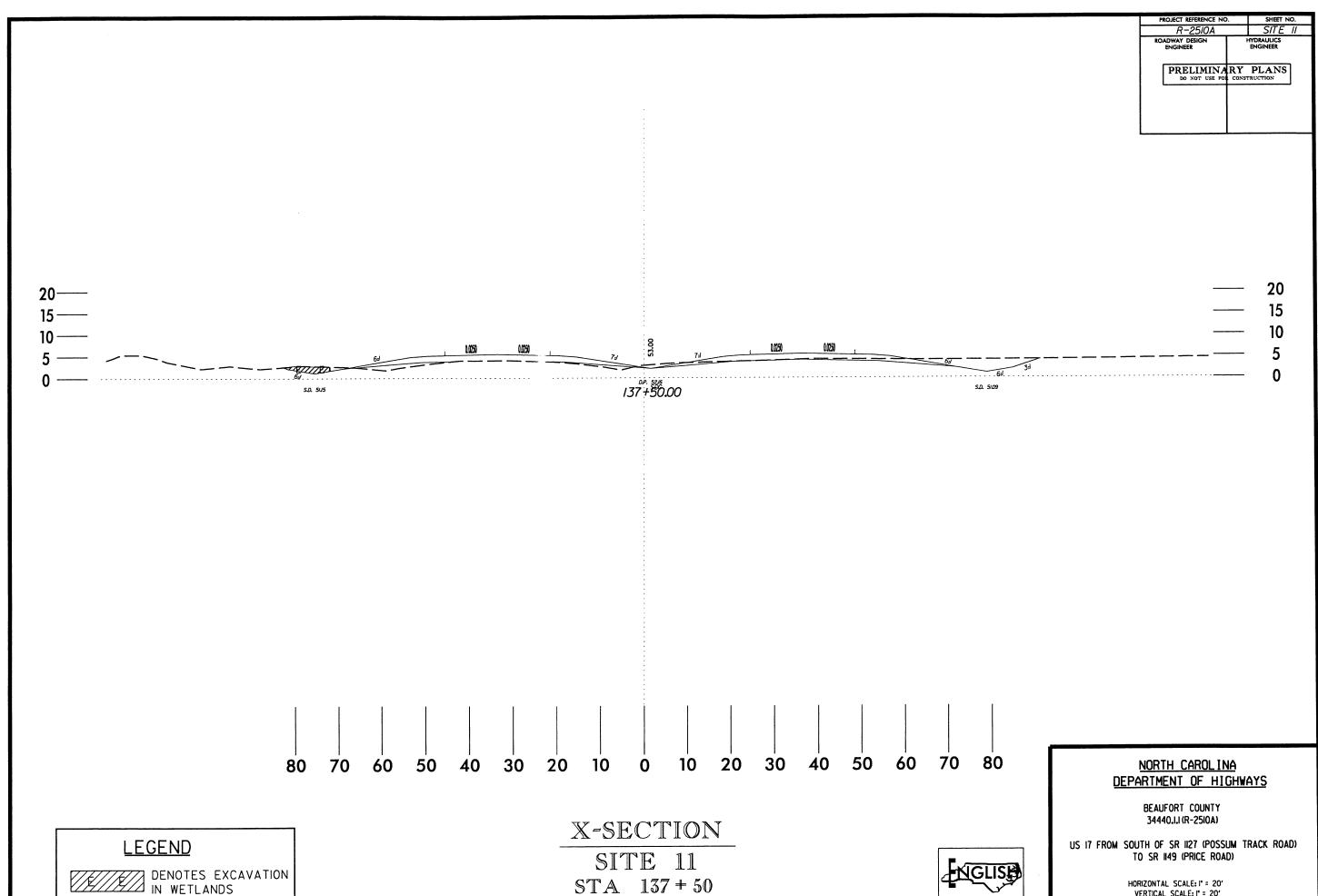
BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD)
TO SR 1149 (PRICE ROAD)

HORIZONTAL SCALE: | = 20' VERTICAL SCALE: | = 20'

SHEET 9 OF 14

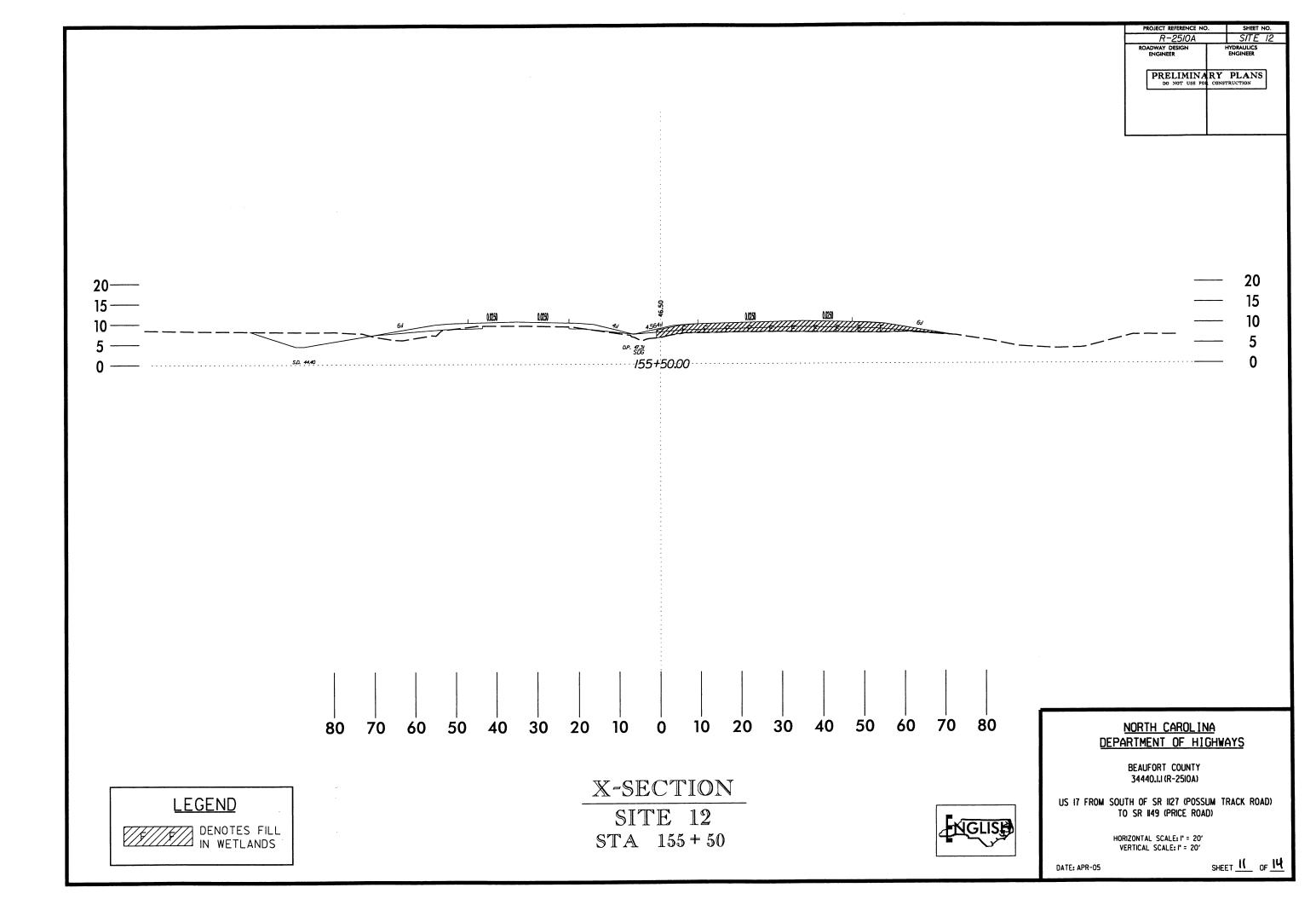
DATE: APR-05

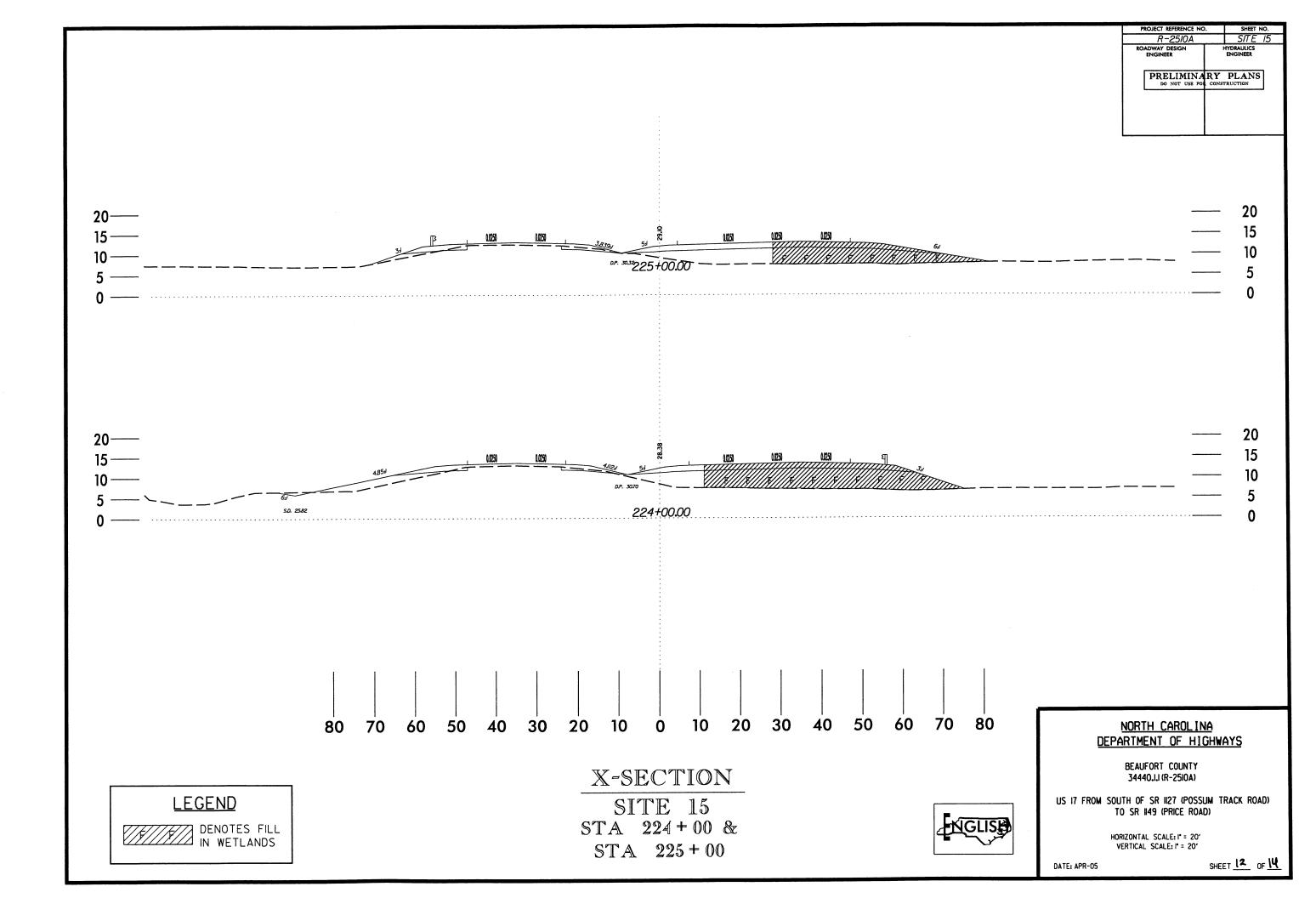


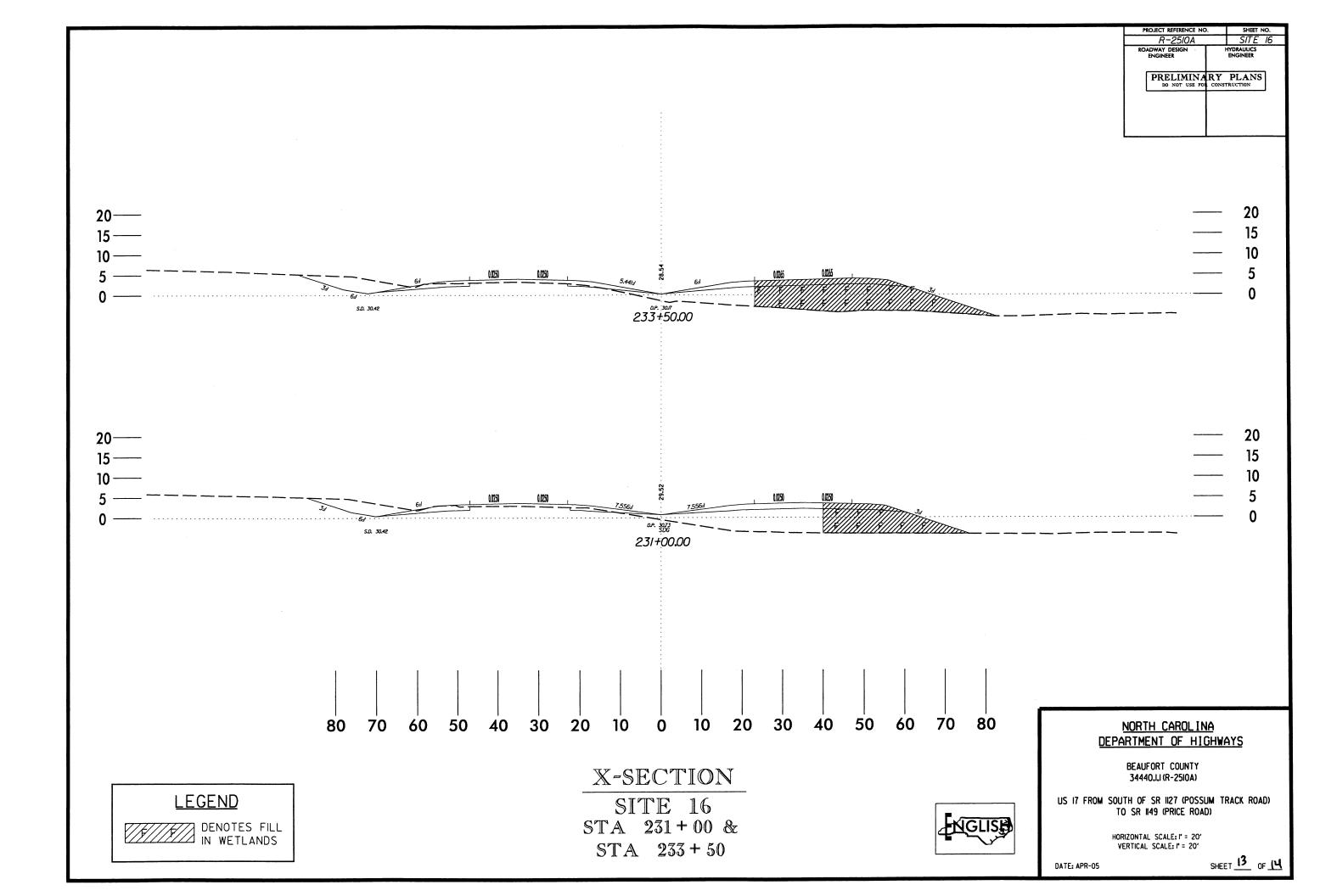
HORIZONTAL SCALE: | = 20' VERTICAL SCALE: | = 20'

DATE: APR-05

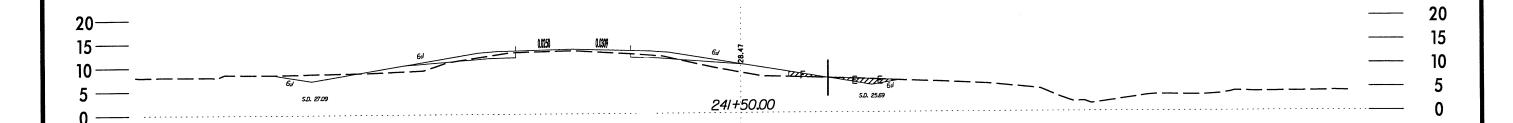
SHEET 10 OF 14







R-25/0A SITE 17 ROADWAY DESIGN HYDRAULICS ENGINEER PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION
PRELIMINARY PLANS



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

LEGEND

DENOTES FILL IN WETLANDS

DENOTES EXCAVATION IN WETLANDS

X-SECTION SITE 17 STA 241 + 50



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

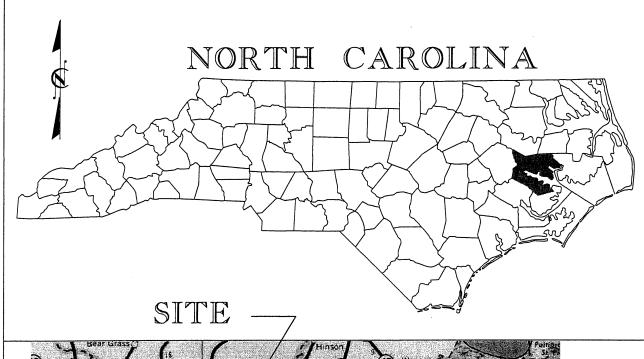
BEAUFORT COUNTY 34440.I.I (R-2510A)

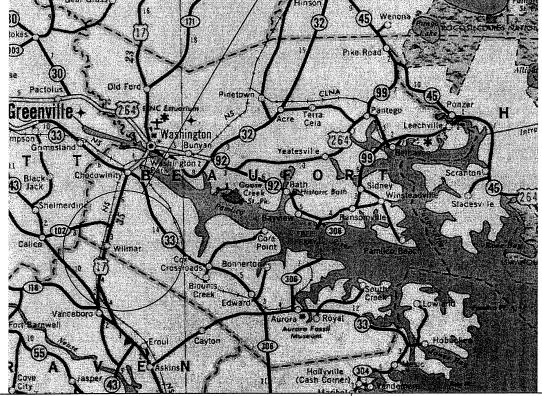
US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD)
TO SR 1149 (PRICE ROAD)

HORIZONTAL SCALE: |* = 20' VERTICAL SCALE: |* = 20'

DATE: APR-05

SHEET IH OF IH





VICINITY MAP

NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-25IOA)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD)
TO SR 1149 (PRICE ROAD)

NOT TO SCALE

DATE: AUG-04

SHEET 1 OF 6

WETLAND SITE MAP 33 17 END PROJECT Chocowinity 2 1123 1136 <u>114</u>9 <u>1140</u> 1156 17 1155 Chicod 1150 1136 Juniper Swamp 1139 Frederick 1152 1151 Thatding Creek Branc 1152 152 1152 Bay Sul 1138 1153 <u> 1134</u> 1154 BEGIN PROJECT 1136 1168 <u>113</u>5 17 1137 Po 1127 1127 1129 SITE NORTH CAROLINA DEPARTMENT OF HIGHWAYS 10:13:05 AM BEAUFORT COUNTY 34440.I.I (R-2510A) US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR 1149 (PRICE ROAD) 3/15/2005 NOT TO SCALE SHEET 2 OF 6 DATE: AUG-04

r:\R25IOA\Hydraulics\Permits\R25IOA_permit_tshdgn 3.15.2005

WETLAND LEGEND

-WLB--- WETLAND BOUNDARY



WETLAND

DENOTES FILL IN WETLAND

DENOTES FILL IN SURFACE WATER

DENOTES FILL IN SURFACE WATER (POND)

DENOTES TEMPORARY FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES TEMPORARY FILL IN SURFACE WATER

DENOTES MECHANIZED

CLEARING

→ FLOW DIRECTION

_ TOP OF BANK

WE

- EDGE OF WATER

 $_$ $\!$ $\!$ $\!$ $\!$ $\!$ $\!$ PROP.LIMIT OF CUT

__ E __ 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

EXIST, ENDANGERED PLANT BOUNDARY

_V___ WATER SURFACE

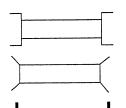


LIVE STAKES



BOULDER

CORE FIBER ROLLS



PROPOSED BRIDGE

PROPOSED BOX CULVERT

PROPOSED PIPE CULVERT

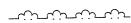
12"-48" PIPES

(DASHED LINES DENOTE EXISTNG STRUCTURES)

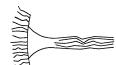
54" PIPES & ABOVE

£

SINGLE TREE



WOODS LINE



DRAINAGE INLET

ROOTWAD



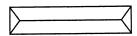
RIP RAP



ADJACENT PROPERTY OWNER OR PARCEL NUMBER (IF AVAILABLE)



PREFORMED SCOUR HOLE



LEVEL SPREADER (LS)



DITCH / GRASS SWALE



NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR 1149 (PRICE ROAD)

NOT TO SCALE

DATE: AUG-04

SHEET 3 OF 6

r:\R2510A\Hydraulics\Permits\R2510A_permit_tsh.dgn AM 10:12:42 3/15/2005

SUMMARY OF AFFECTED PROPERTY OWNERS WETLAND SITES

			
TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
	JOHN JAY WALTON	2314 NC 33 CHOCOWINITY NC, 27817	ı
4	REBECCA S. DAY	QUARTERDECK #13 RIVERBEND NEW BERN NC, 28562	ı
5	JAMES A. POLLARD, et ux	1255 WARES CHAPEL LN. WASHINGTON NC, 27889	2
(12)	TERRY D. ANDREWS	8059 US HWY I7 S CHOCOWINITY NC, 27817	3
(13)	J.M. HILL, et ux	3509 TRENT RD. NEW BERN NC, 28560	3,4
28	D.H. BRIGHT	?	6
32)	MAUDE ELIZABETH WHITEHURST	685IUS HWY I7 S CHOCOWINITY NC, 278I7	8
(48)	J.J. C00K, et ux	236 E. MAIN ST. WASHINGTON NC, 27889	10
60	MICHAEL MIZELL, et ux	6219 US HWY 17 S CHOCOWINITY NC, 27817	12
62	BOBBY GENE WEATHINGTON	PO BOX 92I CHOCOWINITY NC, 278I7	12
70	DANNY SMITH	PO BOX 623 CHOCOWINITY NC, 27817	13
68	ROY MITCHELL CLARK, et ux	7450 PITT ST. GRIMESLAND NC, 27837	13
71	BETSY ROSE HADDOCK	6025 US HWY I7 S CHOCOWINITY NC, 27817	13

NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-2510A)

US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR 1149 (PRICE ROAD)

NOT TO SCALE

DATE: AUG-04

SHEET 4 OF 6



SUMMARY OF AFFECTED PROPERTY OWNERS WETLAND SITES

TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
69	CARRIE M. TURNER, et ux	IOI4 VAN NORDEN ST. WASHINGTON NC, 27889	13
97	SALLIE BLOUNT TOLER	5613 US HWY 17 S CHOCOWINITY NC, 27817	14
(107)	JASON C. SHEPPARD	PO BOX 1902 CHOCOWINITY NC, 27889	15
(IIO)	SCOTT ROBERT BATEMAN, et ux	4829 US HWY 17 S CHOCOWINITY NC, 27817	15,16
(109)	MARVIN J. HARRIS FAMILY TRUST	PO BOX 1747 WASHINGTON NC, 27889	15
(108)	A. FRANK RESPESS	4918 US HWY 17 S CHOCOWINITY NC, 27817	15
(118)	RICHARD D. PEED, JR., e† ux	410 TRANTERS CREEK DR. WASHINGTON NC, 27889	17
	NORFOLK SOUTHERN RAILROAD		3,5,7,9,11
98)	C. DOUGLAS BRANCH, et ux	5614 US HWY I7 S CHOCOWINITY NC, 27817	14

NORTH CAROLINA DEPARTMENT OF HIGHWAYS

BEAUFORT COUNTY 34440.I.I (R-25I0A)

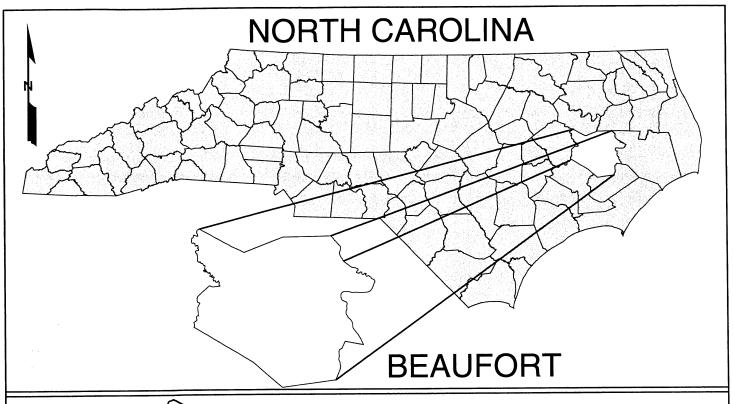
US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD) TO SR 1149 (PRICE ROAD)

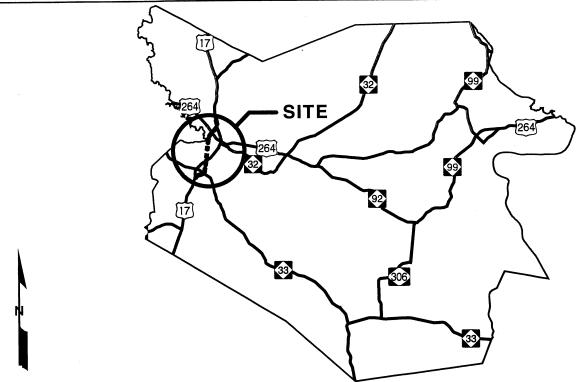
NOT TO SCALE

DATE: AUG-04

SHEET 5 OF 6

		_	Stream																					0	RTATION)	<u>\</u>	-2510A)		lo
	IMPACTS	Existing	Channel	mipacted (ft)			113									88	52	122	103					478	DEPT. OF TRANSPORTA DIVISION OF HIGHWAYS		BEAUFORT COUNTY	1440.1.1 (R	4/20/2005	ш
	SURFACE WATER IMPACTS		Temp. Fill	(Ac)			0.0061									0.0019	0.0036	0800'0	0.0310					0.0506	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS		BEAUFC	PROJECT: 34440.1.1 (R-2510A)	14/	SHEET
	SURF		Fill In SW	(Polid) (Ac)																				0.0000	2					
ARY			Fill In SW	(Natural)			0.0105									0.0140	0.0087	0.0119	0.0219					0.0670						
ST SUMM		Mechanized	Clearing	(Method III) (Ac)	0.0142	0.0238	0.0058	0.1425	0.0676	0.1639	0.0051	0.0646	0.0276	0.0655	0.0079				0.0789	0.0475	0.0055			0.7204						
AIT IMPAC	WETLAND IMPACTS		Excavation In Wotlands	(Ac)	0.0441	0.0214	0.0072	0.3302	0.0877			0.0128	0.0873	0.1659	0.0359				0.0154		0.0093			0.8171						
WETLAND PERMIT IMPACT SUMMARY	WETLAN		Temp. Fill	(Ac)																				0.0000						
WETLA			Fill In	(Ac)	0.0784		0.0108	0.3014	0.0304	1.0470	0.1491	0.2530	0.1186	0.4161		0.0171			0.1766	0.2049	0.0047			2.8080						
			Structure	olze i ype			66" RCP									30" RCP	24" RCP	24" RCP	2@8ftx7ft											
			Station (From/To)	(01,11011)	29+50 Rt	33+50 Rt		63+50 to 67+00 Rt	85+00 to 90+20 Lt	86+10 to 93+60 Rt	103+15 to 105+20 Lt	107+20 to 110+20 Rt	117+15 to 120+50 Lt	132+00 to 134+60 Rt	136+90 to 138+20 Lt	155+20 Rt	162+35	185+82	223+50 to 225+30	230+40 to 234+00 Rt	241+30 to 241+65 Rt									Form Revised 3/22/01
		i	Site		1	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17			TOTALS:						



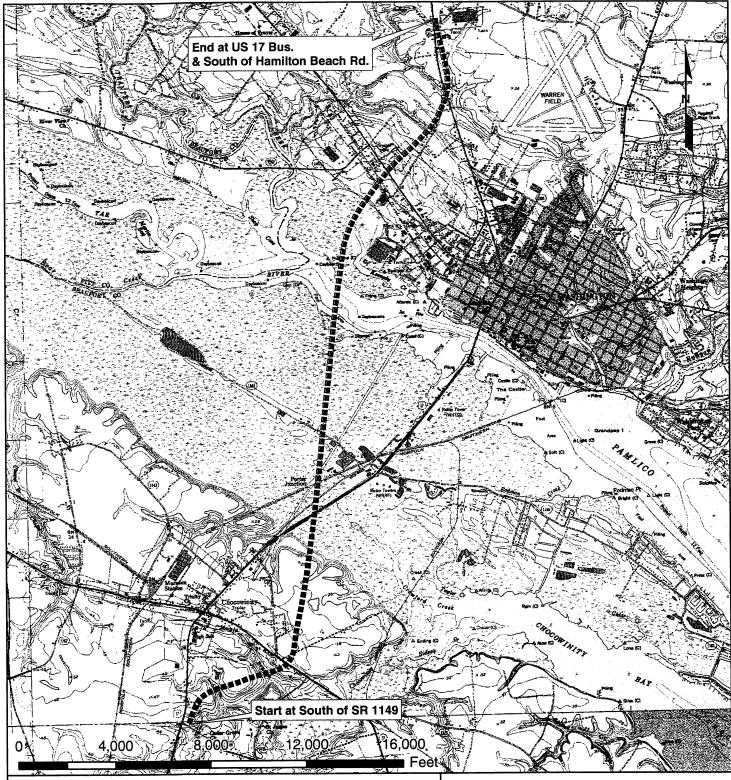


VICINITY MAPS

NCDOT

DIVISION OF HIGHWAYS
BEAUFORT COUNTY
PROJECT: 34440.1.1 (R-2510B)
US 17 BYPASS

3/11/05



1 inch equals 4,000 feet

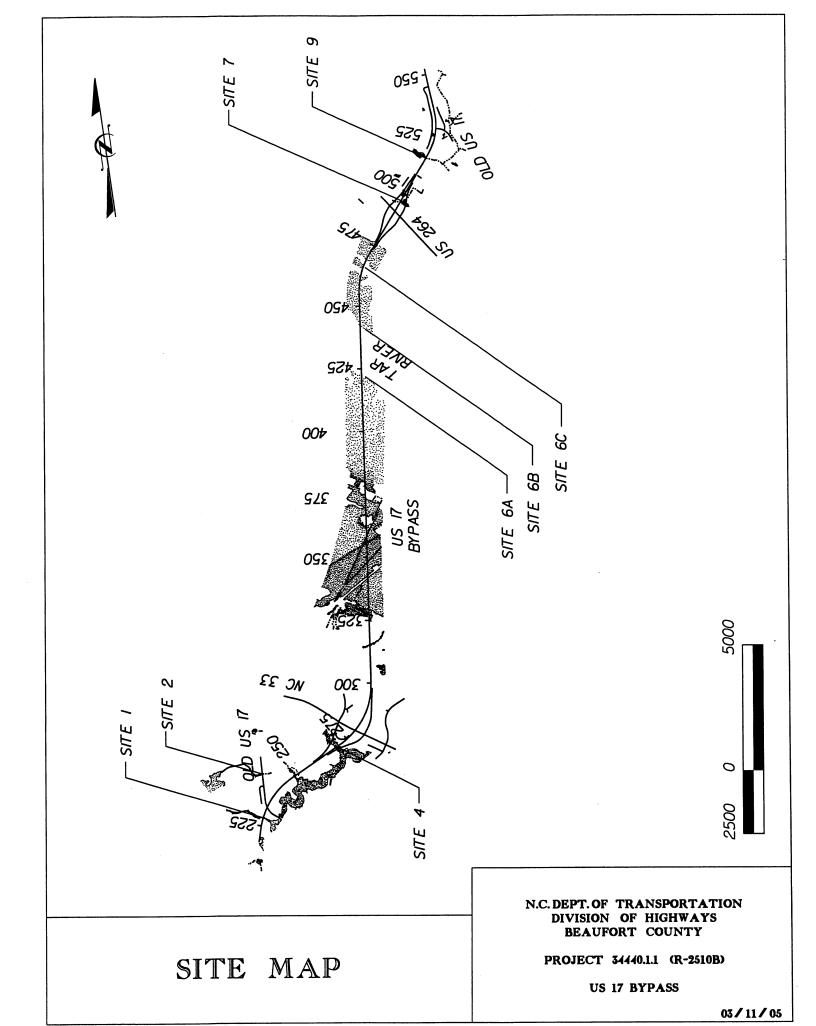
LOCATION

NCDOT

DIVISION OF HIGHWAYS BEAUFORT COUNTY PROJECT: 34440.1.1 (R-2510B) US 17 BYPASS

3/11/05

Source: USGS 7.5 Minute Quadrangle, Washington and Hackney, NC



PROP. OWNER MAILING ADDRESS	410 TRANTERS CREEK DR, WASHINGTON, NC 27889 527 W MAIN ST, WASHINGTON, NC 27889 NA 87 HILLANDALE AVE, WHITE PLAINS, NY 10603 920 W 3RD ST, WASHINGTON, NC 27889 627 W MAIN ST, WASHINGTON, NC 27889 627 W MAIN ST, WASHINGTON, NC 27889		N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	BEAUFORT COUNTY PROJECT: 34440.1.1 (R-2510B)	1/7/2005
PROPERTY OWNER NAME	PEED, RICHARD D JR & KRISTEN M WINFIELD, WILLIAM BERNARD MCCROY, GEORGE MAYHEW & CIRICLIO, RONNIE M & RANDY J SINGLETON B E JR & MARSHALL T RHEM, J DAN SR GODFREY, OTIS A BONDY, EMILY WINFIELD WINFIELD, ZELMA M	-			
PROP. NO.	11 13 25 30 31				

																									N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	BEAUFORT COUNTY	PROJECT: 344401.1 (R-2510B)	3/22/2005
														1	Г	Т	T	T	I	T		Г	Γ	[7]				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	IMMAKY	1 1 1	MUFFER	ZONE 2 (ft^2)	0.0	98.8	24287.9	3.0	3.0	41.5	5244.5	1944.5	·											31623.2				
O OTO A GALL G	BUFFER IMPACIS SUMMARY		WEILANDS IN BUFFER	ZONE 1 (ff^2)	4312.9	1179.5	48299.0	35.5	7.5	35.5	3079.2	2253.9												59202.9				
	BUFF			Station	-L- 228+25	-BY9- 30+40	-L- 269+90	-L- 422+00	-L- 441+00	-L- 459+00-469+00	-L- 495+50	-L- 515+55																
				Site	1-		4	68				6																
			1											l	I	1	<u> </u>	1	<u> </u>	L	!	I	L					

			BUF	BUFFER IMPACTS SUMMARY	ACTS	SUM	MAR					
						IMPACT	Ť				BUFFER	FER
			TY	TYPE	AL	ALLOWABLE	Щ	_	MITIGABLE	Щ	REPLACEMENT	EMENT
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD	PARALLEL IMPACT	ZONE 1 (ft²)	ZONE 2 (ff²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ff²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)
-	Roadway	-L- 228+25	×		6676.6	4450.0	11126.6					
2	Roadway	-BY9- 30+40	×		2842.1	1992.6	4834.8					
4	Roadway	-L- 269+90	×					49735.4	32361.0	82096.4		
ба	Perm. Bridge	-L- 422+00	×		3985.8	2628.2	6614.0					
6a	Temp. Bridge	-L- 422+00	×		5438.9	3587.0	9025.9					
q9	Perm. Bridge	-L- 441+00	×		3933.7	2479.5	6413.2					
q9	Temp. Bridge	-L- 441+00	×		6254.7	4148.6	10403.3					
ပ္ပ	Bridge	-L- 459+00-469+00	×					29045.5	19778.2	48823.7	-	
7	Roadway	-L- 495+50	×					60721.8	38160.8	98882.6		
o	Roadway	-L- 515+55	×					16736.8	11154.9	27891.7		
												l
TOTAL:					22455.2		48417.7	14835.8 48417.7 156239.5	101454.9	257694.4		

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

BEAUFORT COUNTY PROJECT: 34440.1.1 (R-2510B)

3/11/2005

								T		_	T	т-			T	1	τ	_	_	_	 _	 	 T		
		Natural	Stream	Design	Œ																				0
	PACTS	Existing	Channel	Impacted	(#)	121.6	72.7		826.1			1118.0		278.9											2417.3
	SURFACE WATER IMPACTS		Temp. Fill	In SW	(ac)						0.033														0.033
	SURFAC		Fill In SW	(Pond)	(ac)			0.645					0.074												0.719
			Fill In SW	(Natural)	(ac)	0.011	0.003	0.114		and the second	0.069	0.128		0.051											0.376
SUMMARY		Mechanized	Clearing	(Method III)	(ac)	0.007	0.013	0.040	0.149	0.011				0.017											0.237
WETLAND PERMIT IMPACT SUMMARY	WETLAND IMPACTS			In Wetlands	(ac)		0.017																		0.017
LAND PERN	WETLAND		Temp. Fill	In Wetlands	(ac)						0:020														0.050
WET			Fill In	Wetlands	(ac)	0.092		0.431	3.032	0.122	0.216	1.554	0.042	0.126	0.223										5.839
			Structure	Size / Type		Roadway Fill	Bridge Fill	Roadway Fill	Roadway Fill	Roadway Fill	Roadway Fill														
			Station	(From/To)		-L-228+25	-BY9-30+40	-L-250+50	-L-270+00	-L-315+25	-L- 324+50-476+60	-L- 495+00-499+50	-L-508+00	-L-515+50	-L-525+50										
			Site	Š.		1	2	3	4	2	9	7	8	6	10										TOTALS:

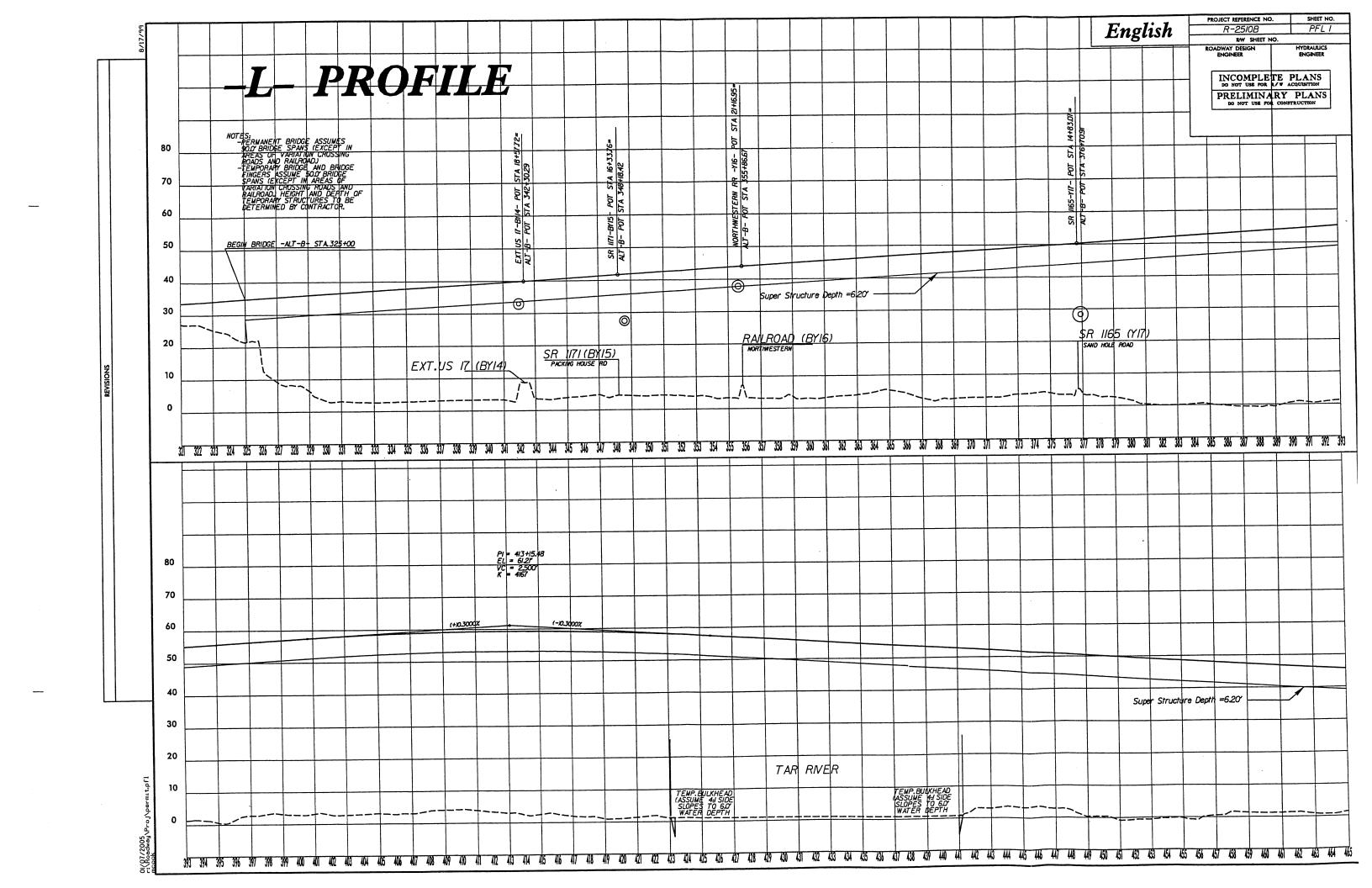
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

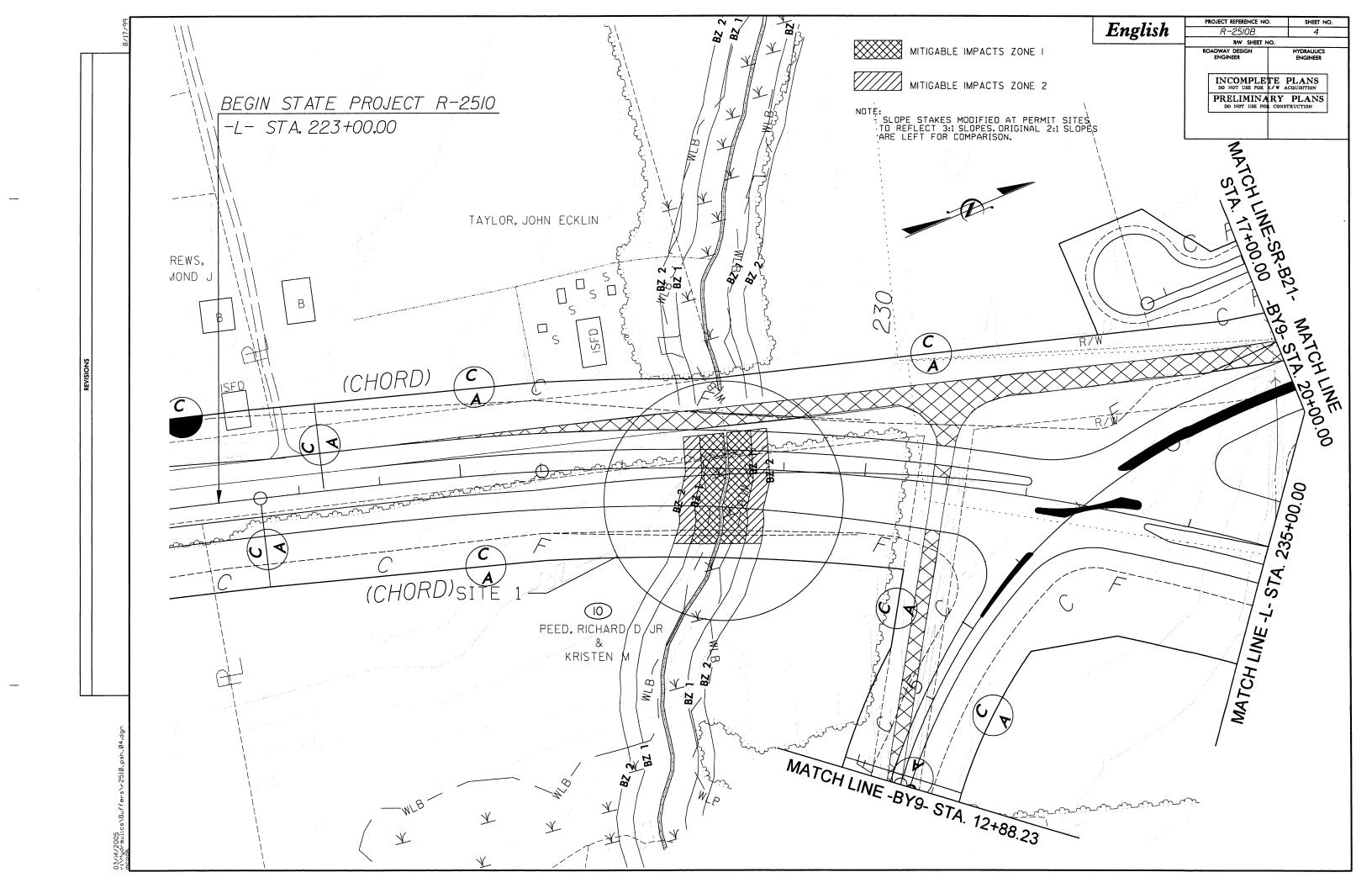
BEAUFORT COUNTY PROJECT 3.4440.1.1 (R-2510B)

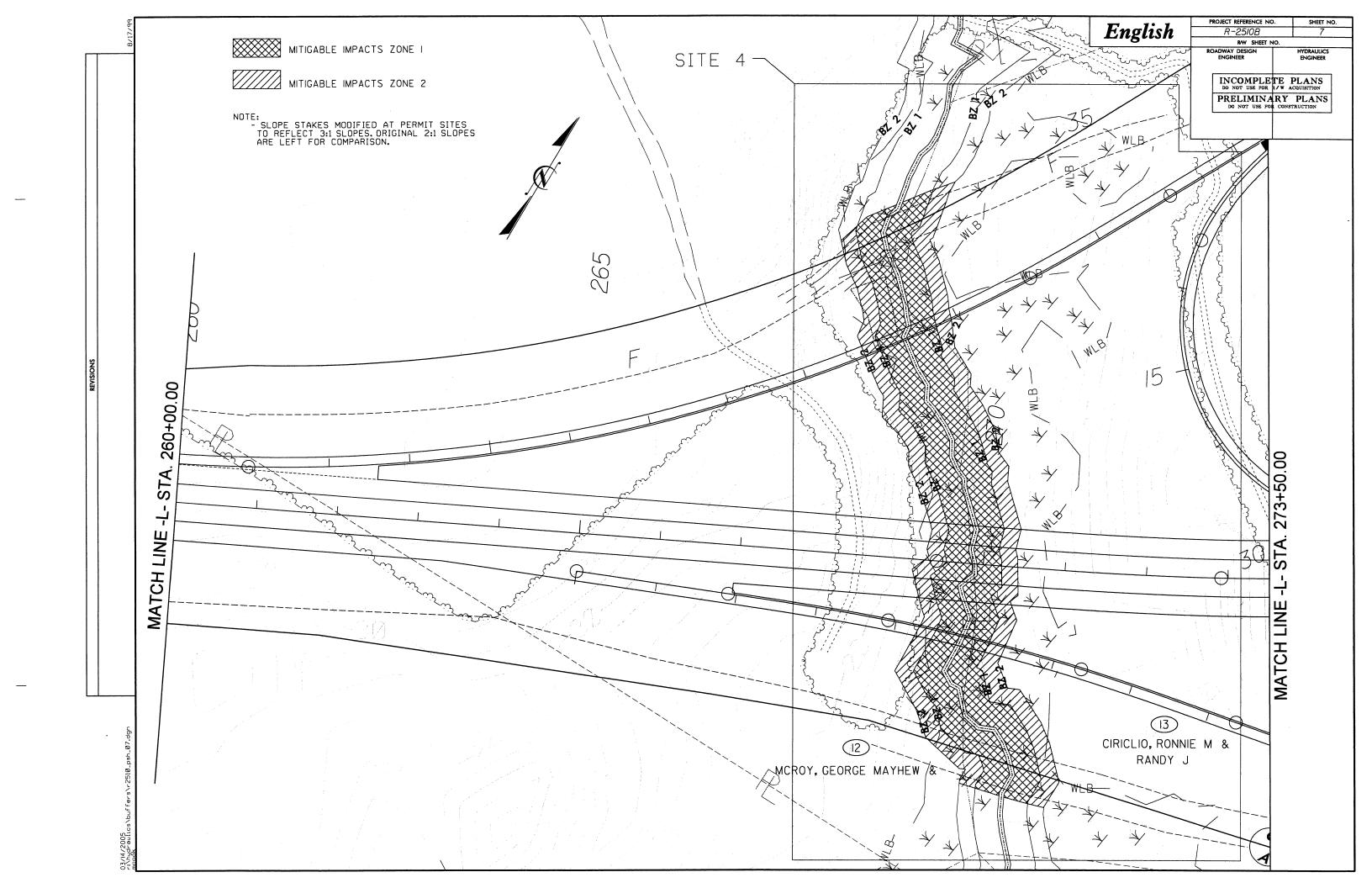
3/22/2005

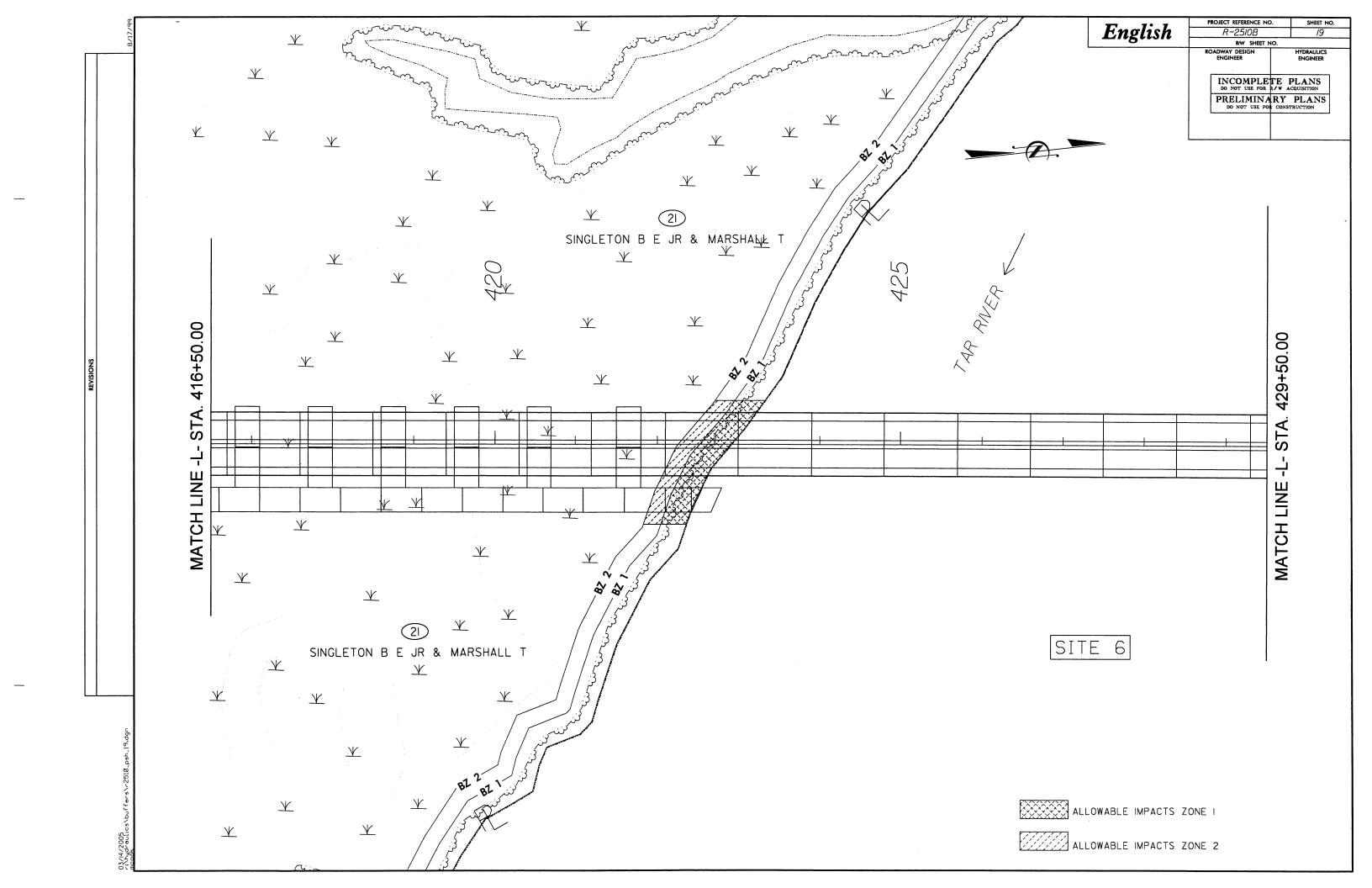
NOTE: WETLANDS IN CUT RUN PERPINDICULAR AND AWAY FROM THE ROADWAY, NOT PARALLEL. THEREFORE, DRAWDOWN EFFECT WAS NOT CALCULATED.

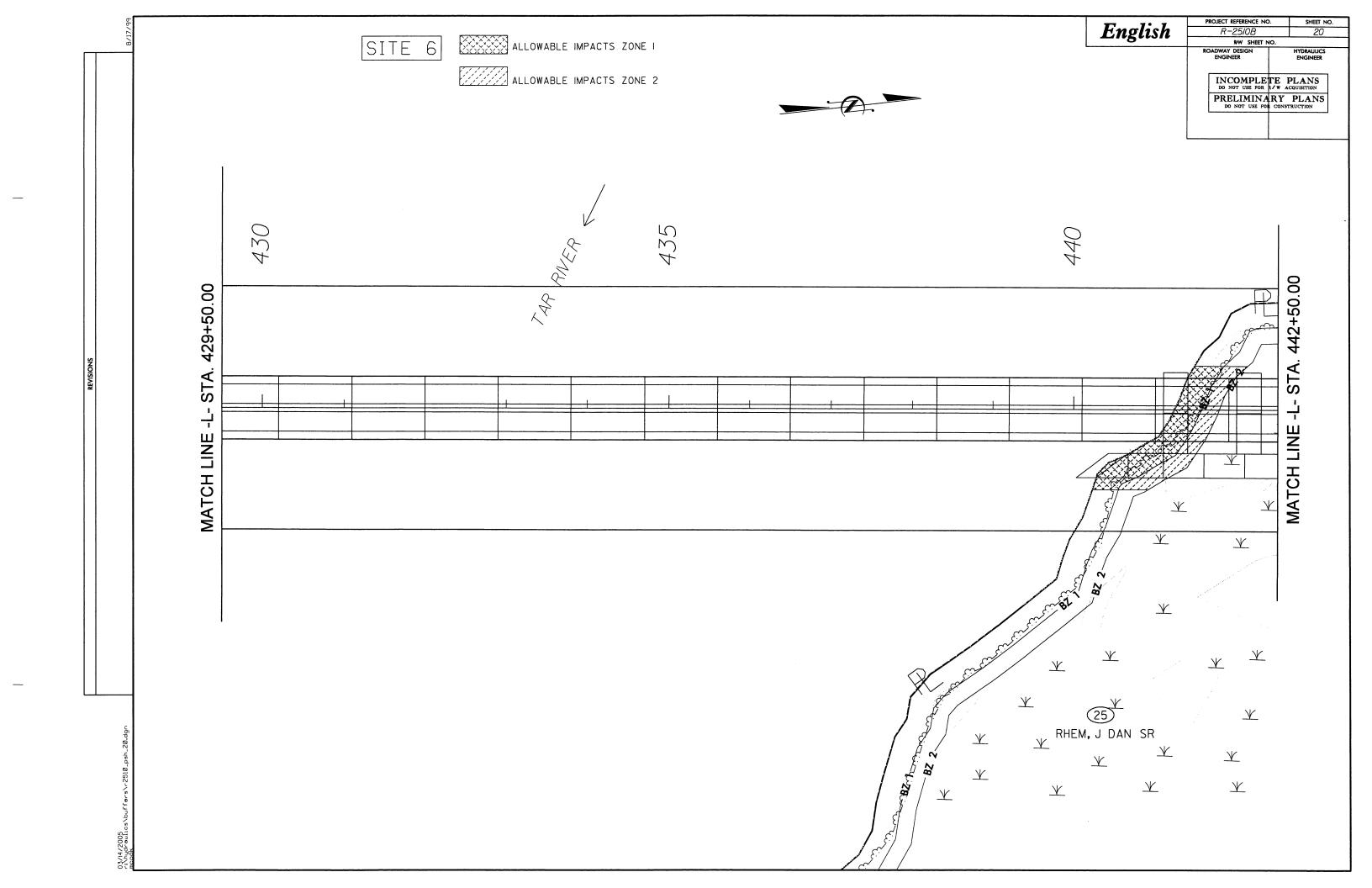
BRIDGE SHADING: 24,9 ac (DOES NOT INCUDE TAR RIVER OR KENNEDY'S CREEK) AVERAGE BRIDGE HEIGHT OVER TAR RIVER: APPR. 39 ft

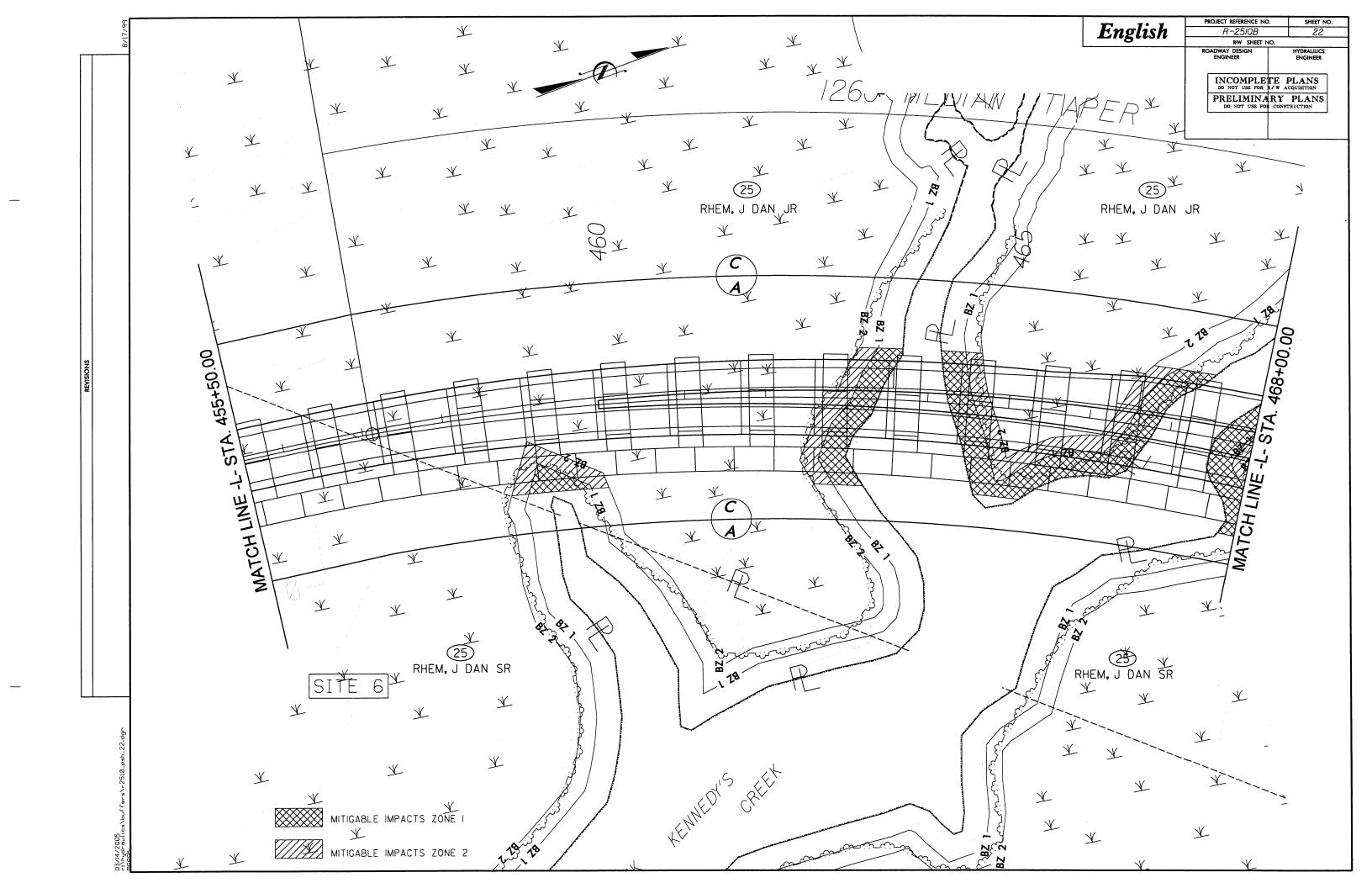


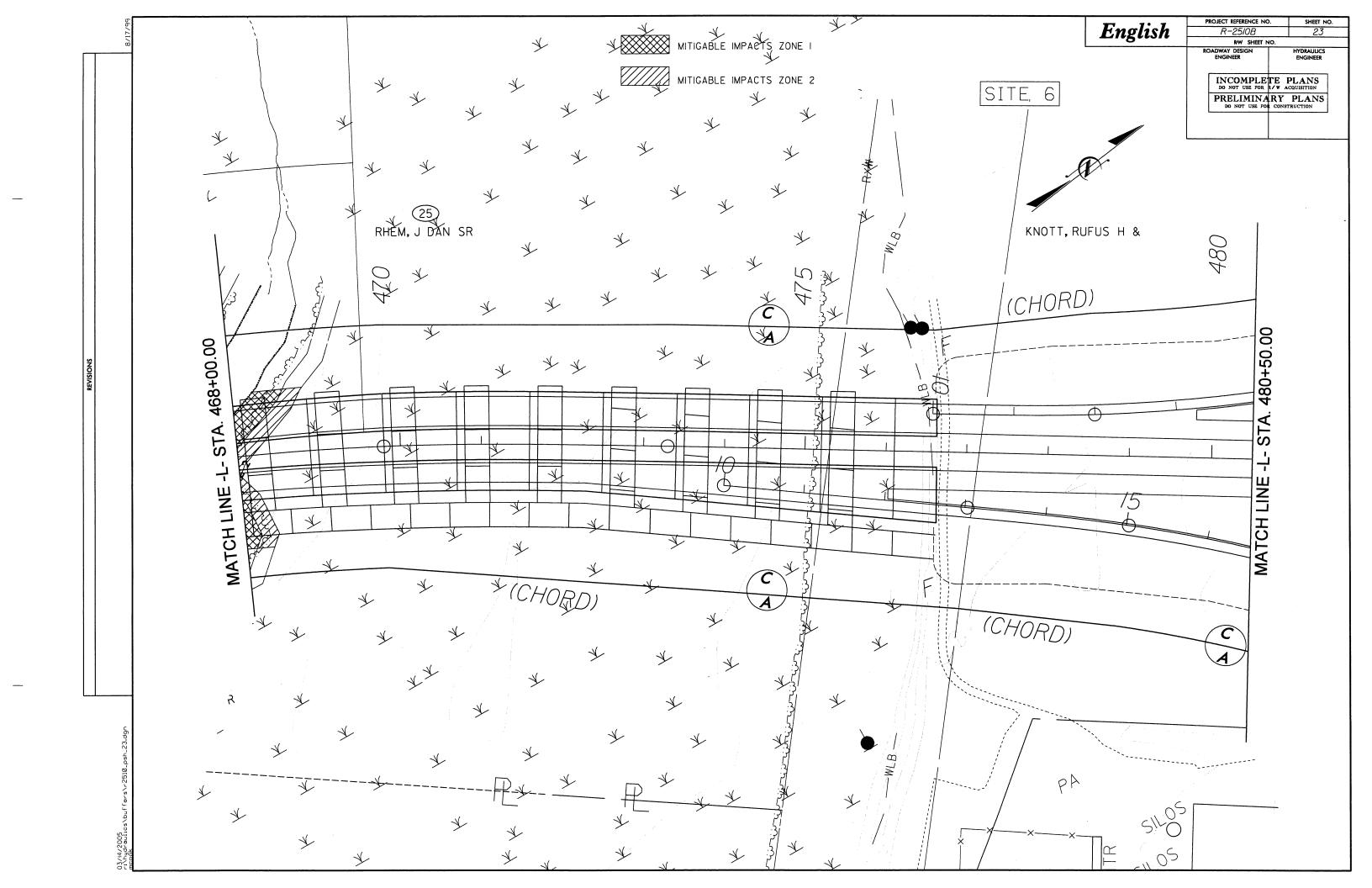


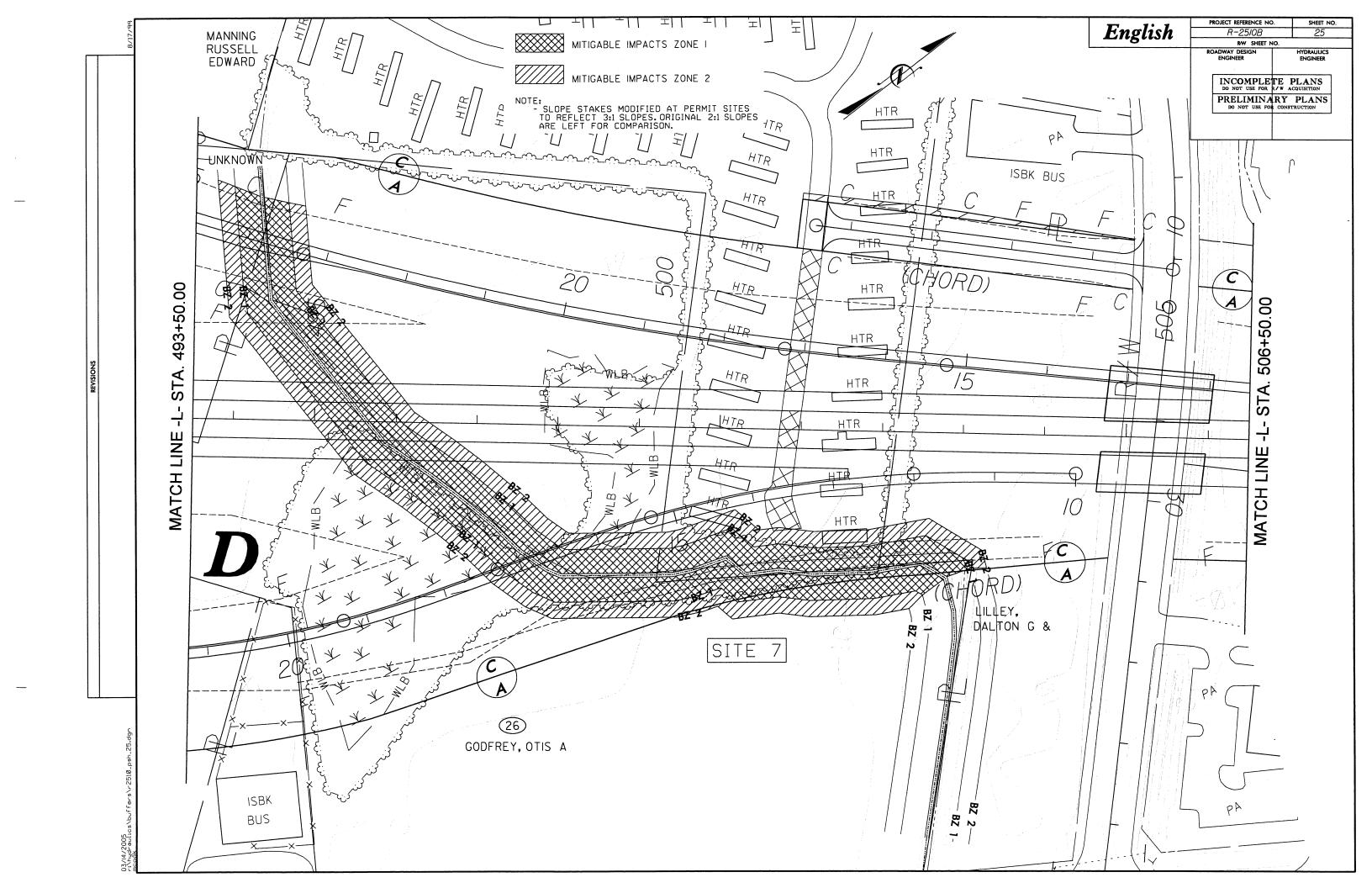


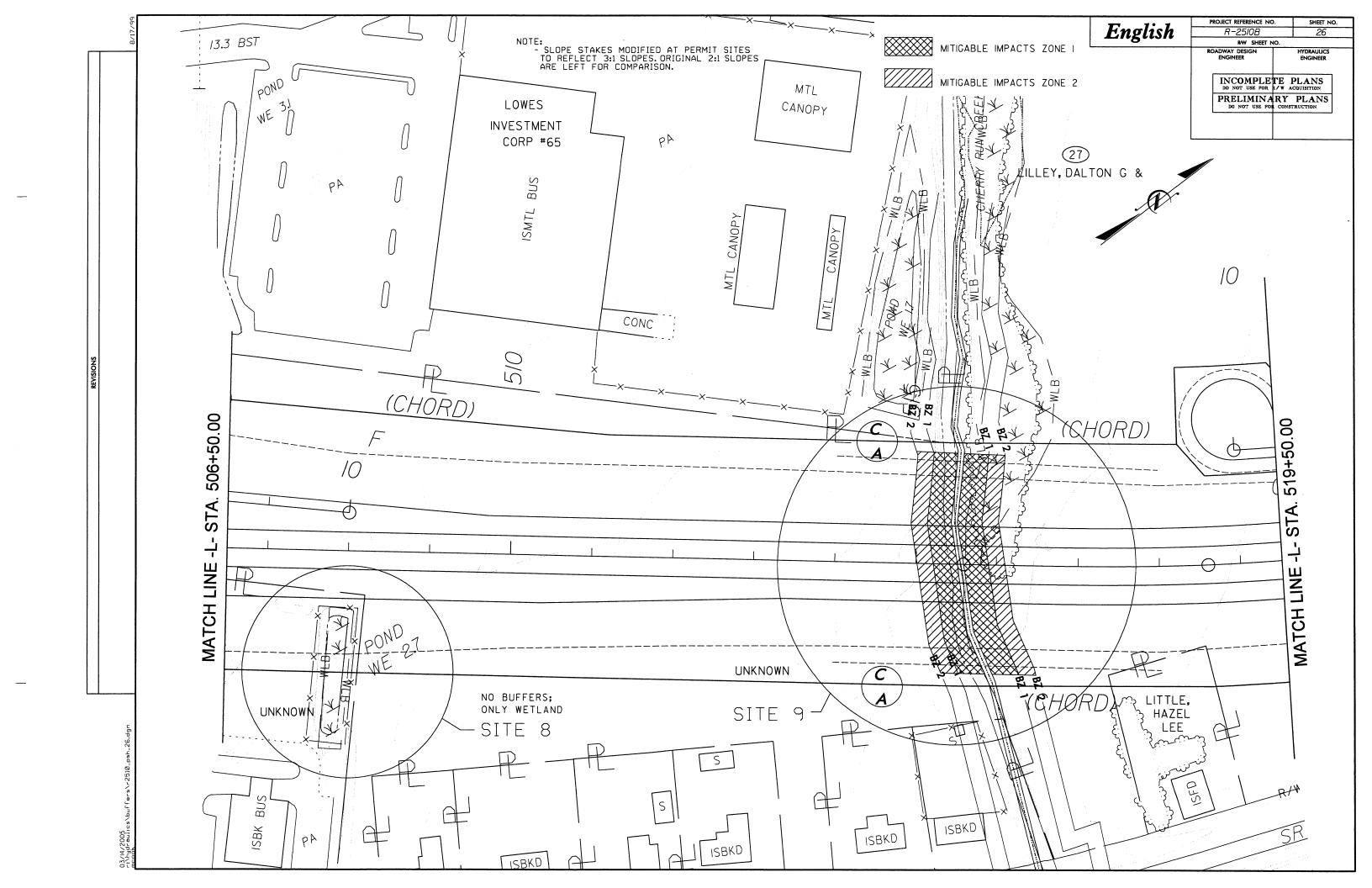


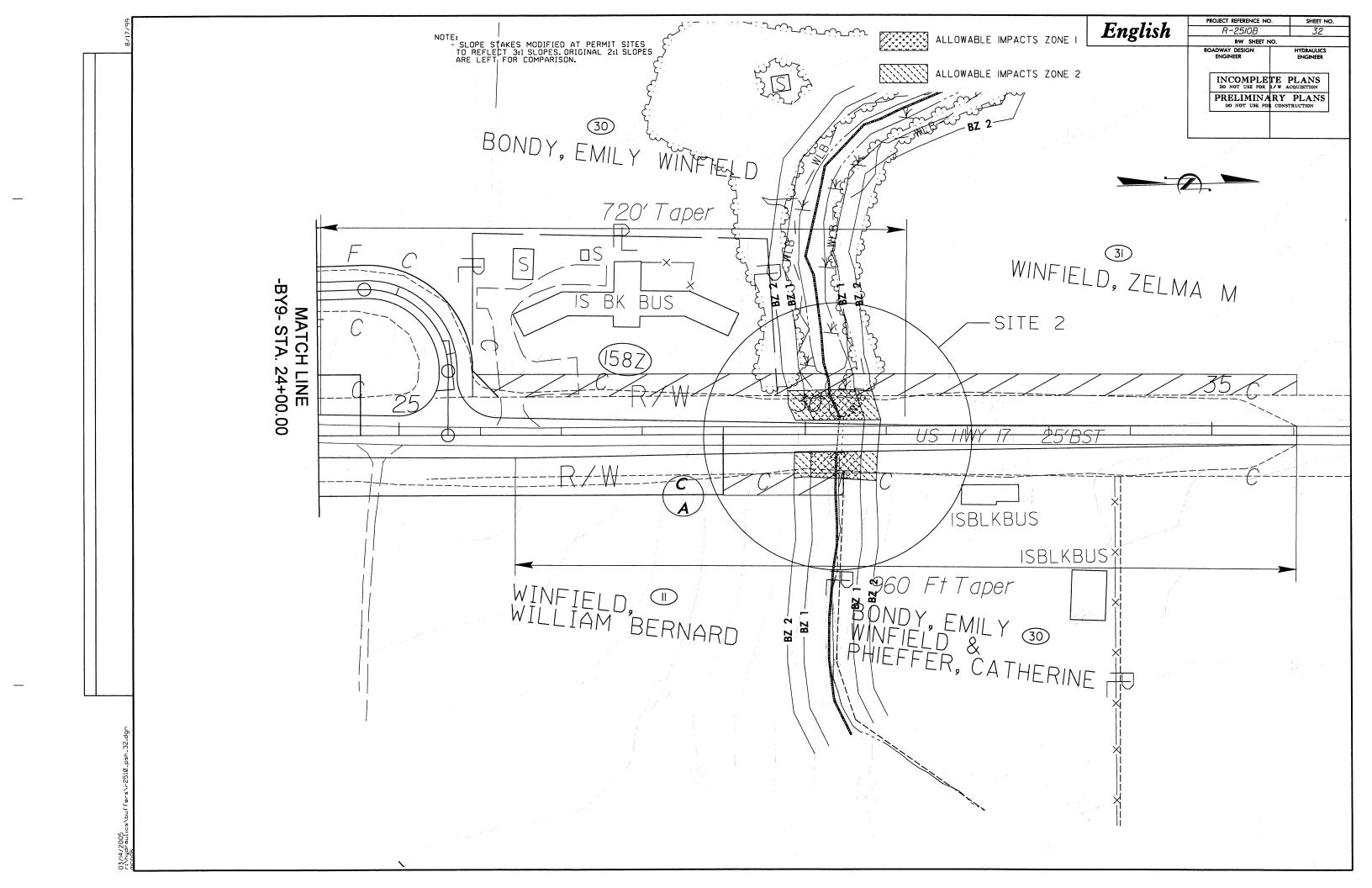


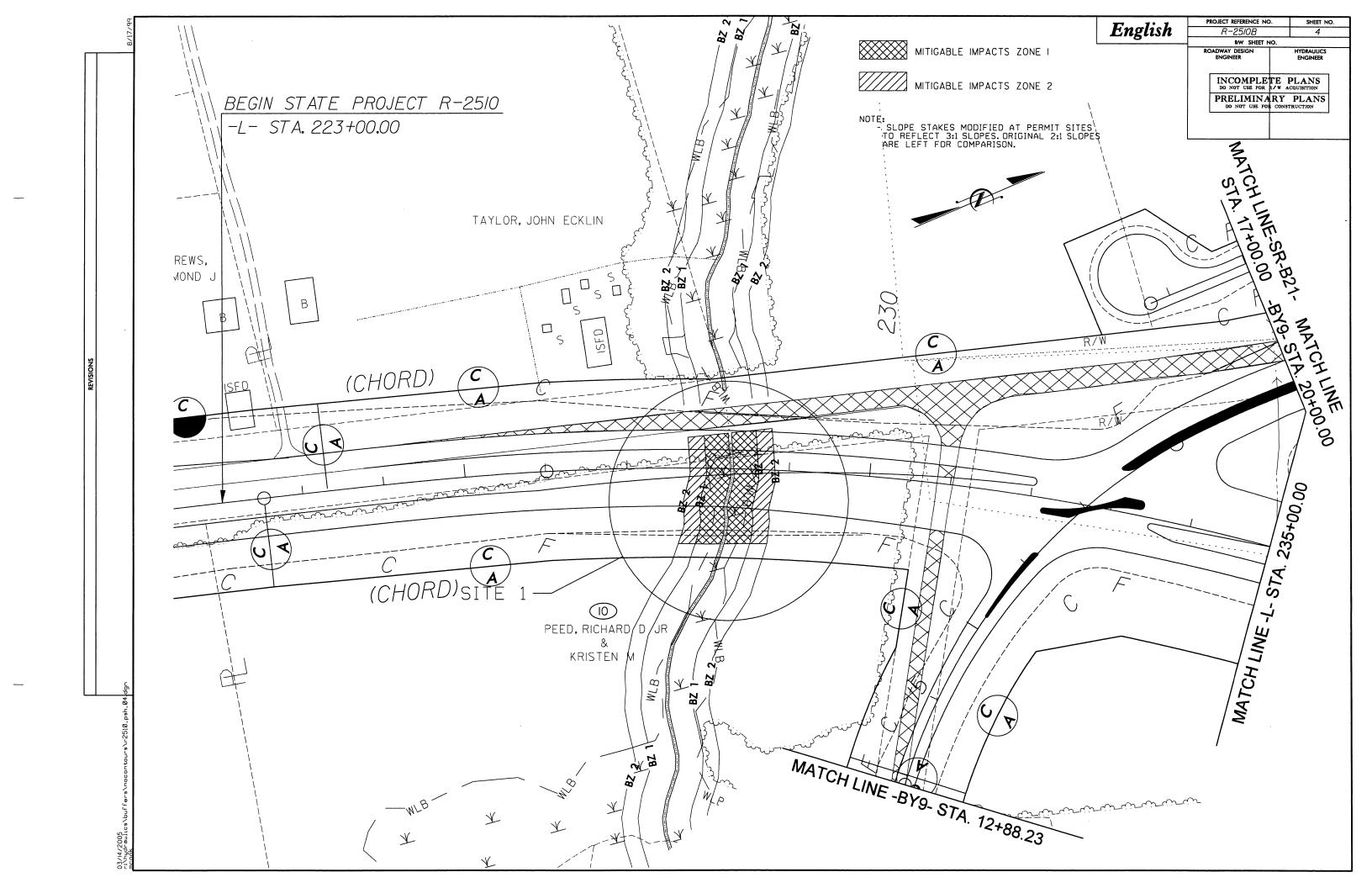


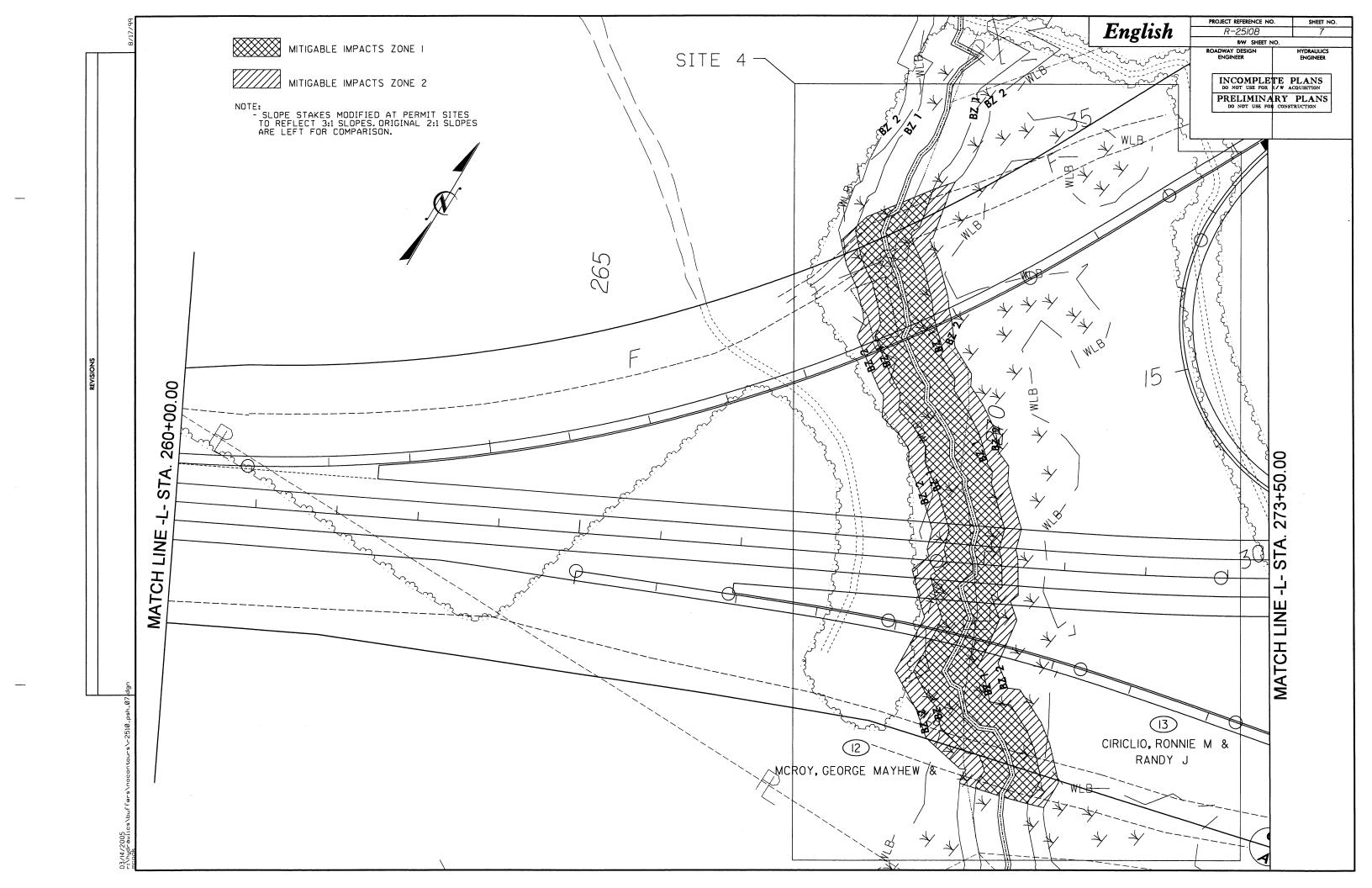


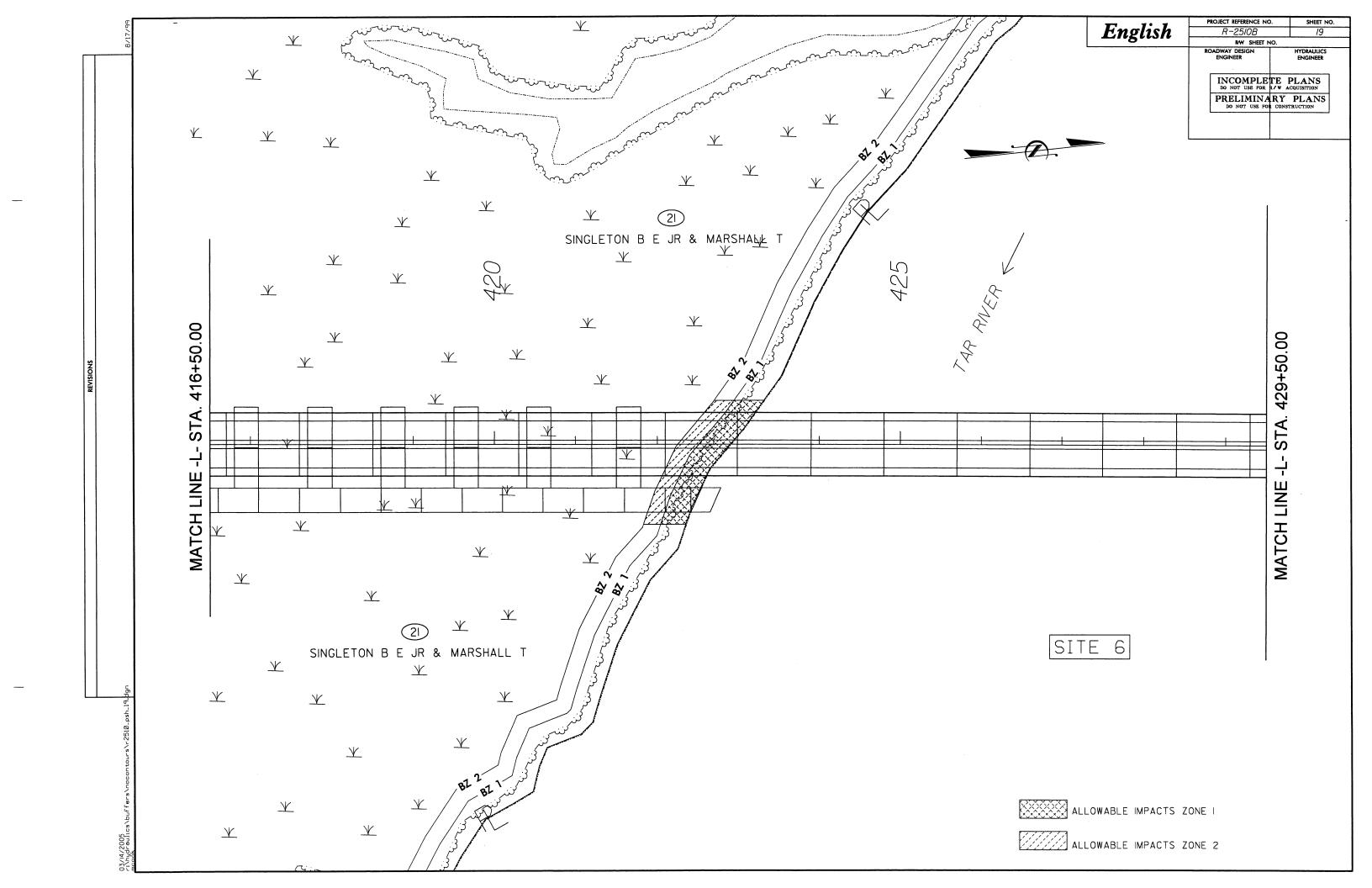


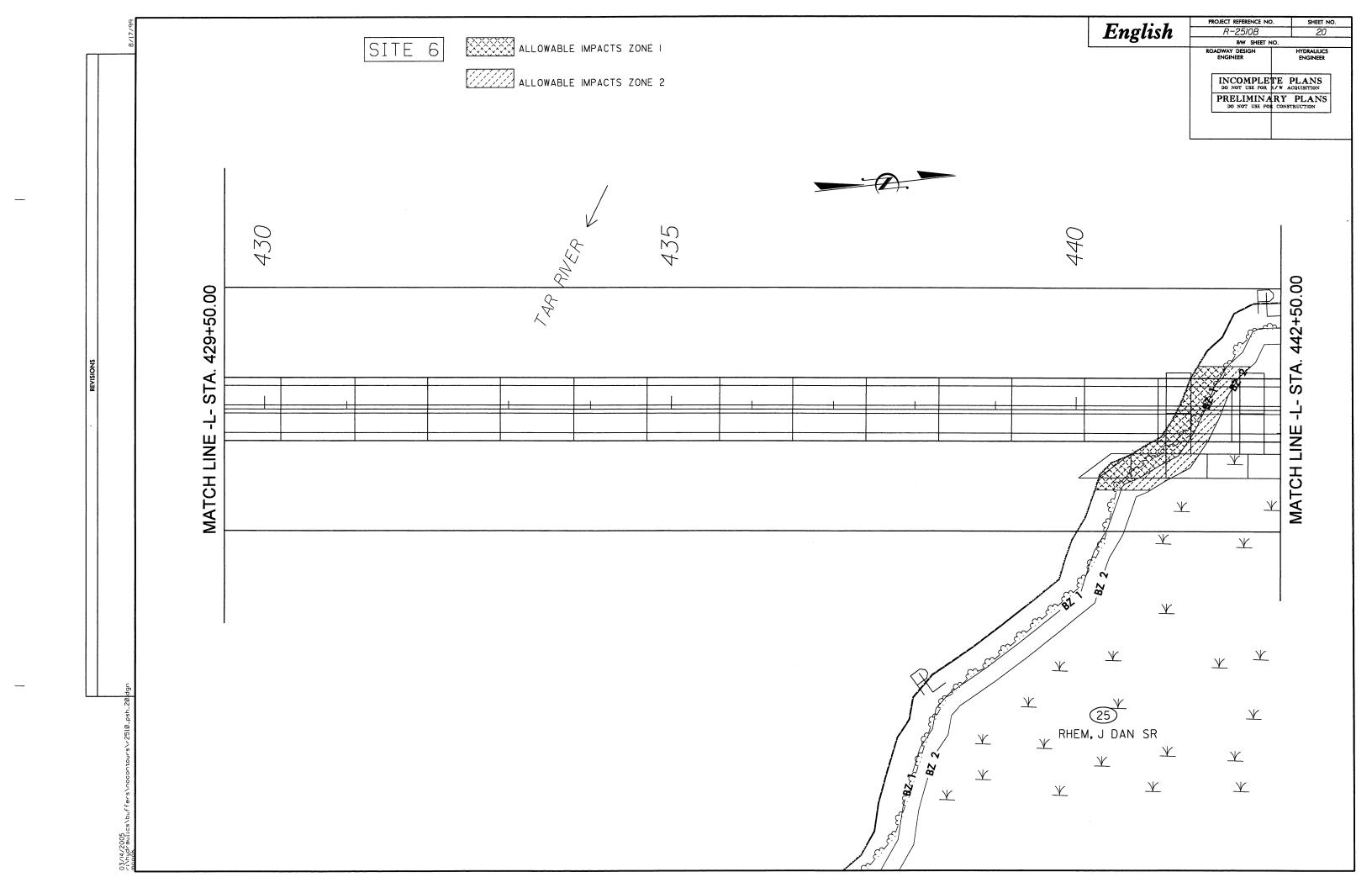


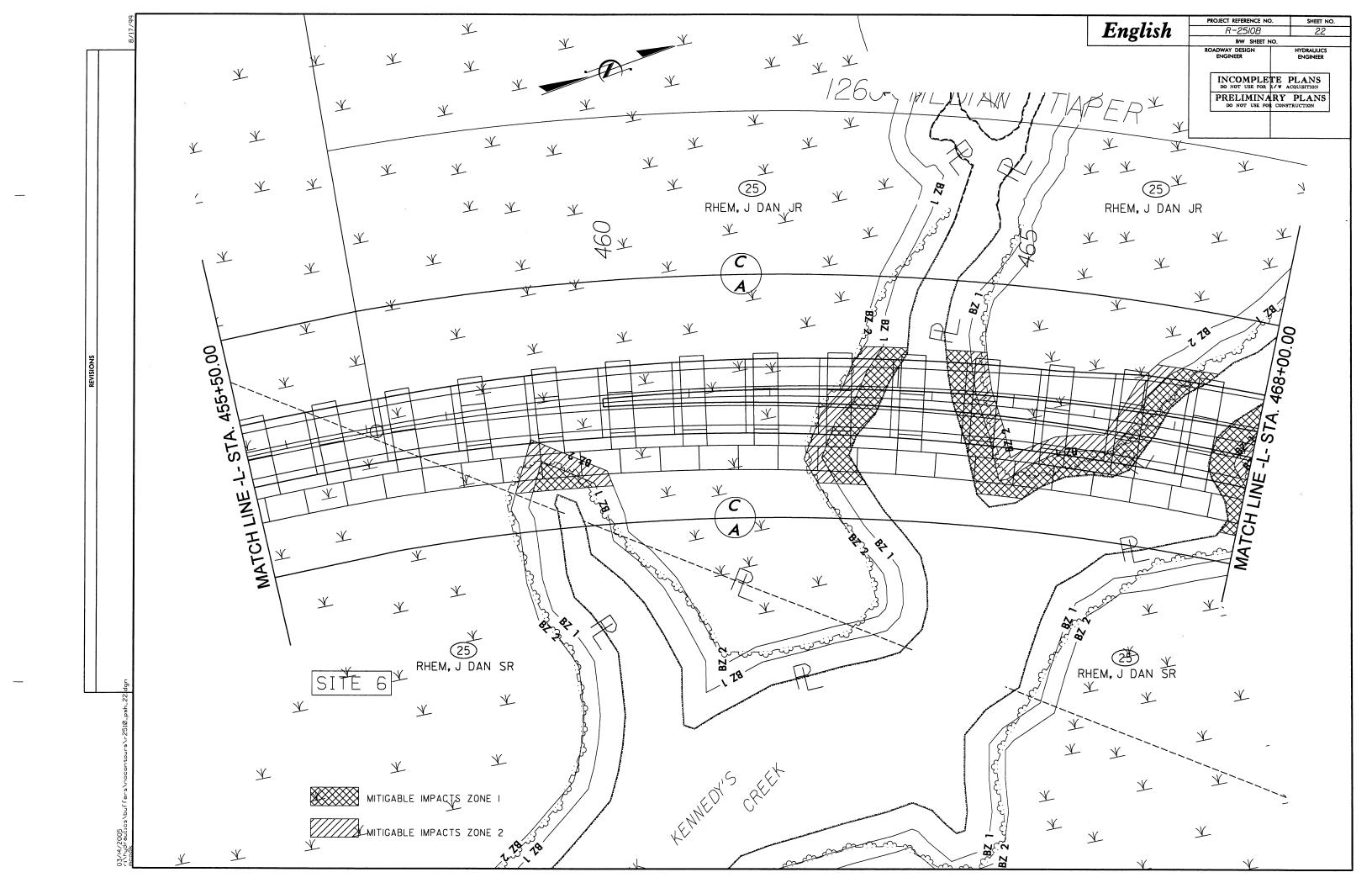


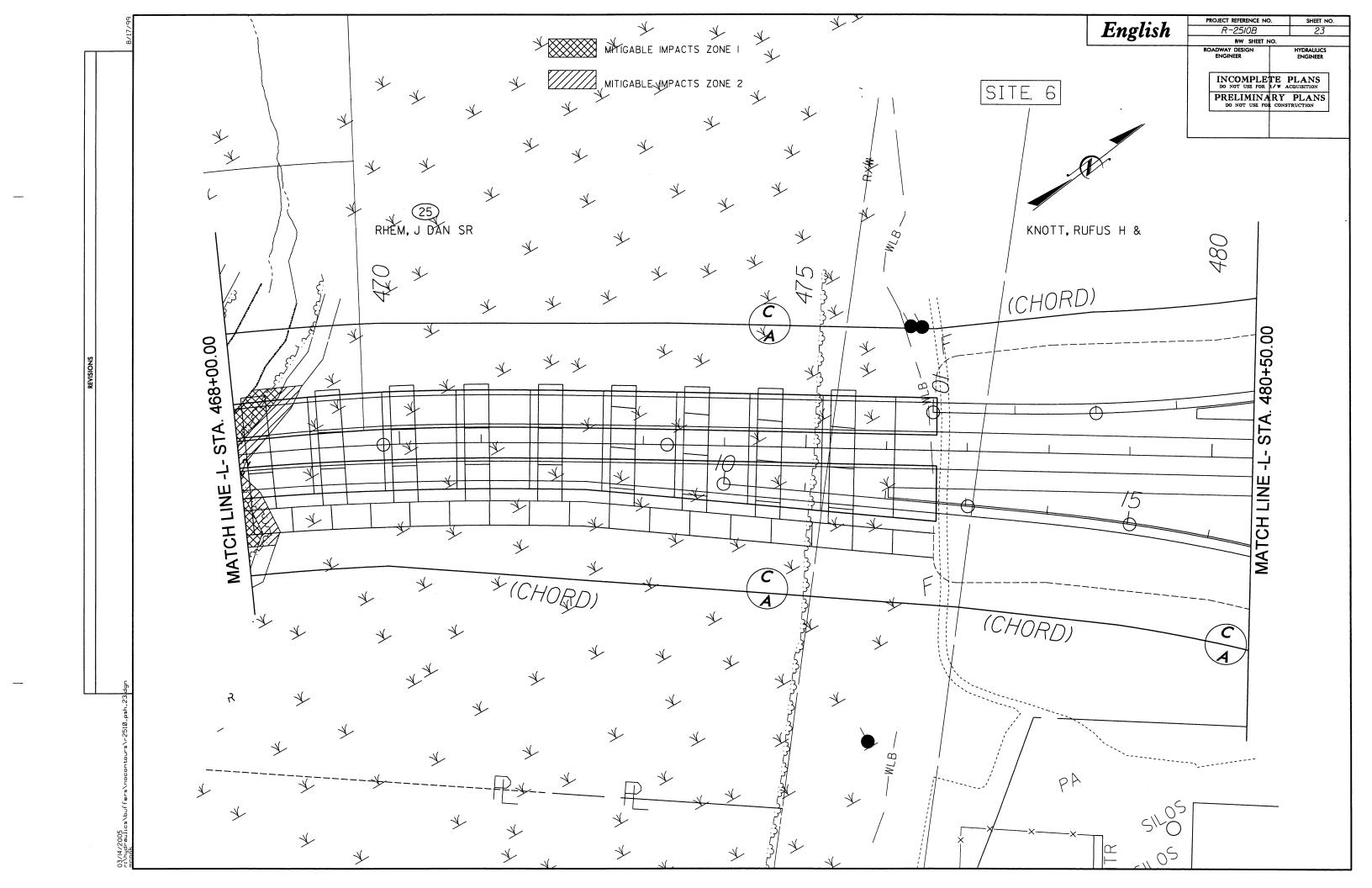


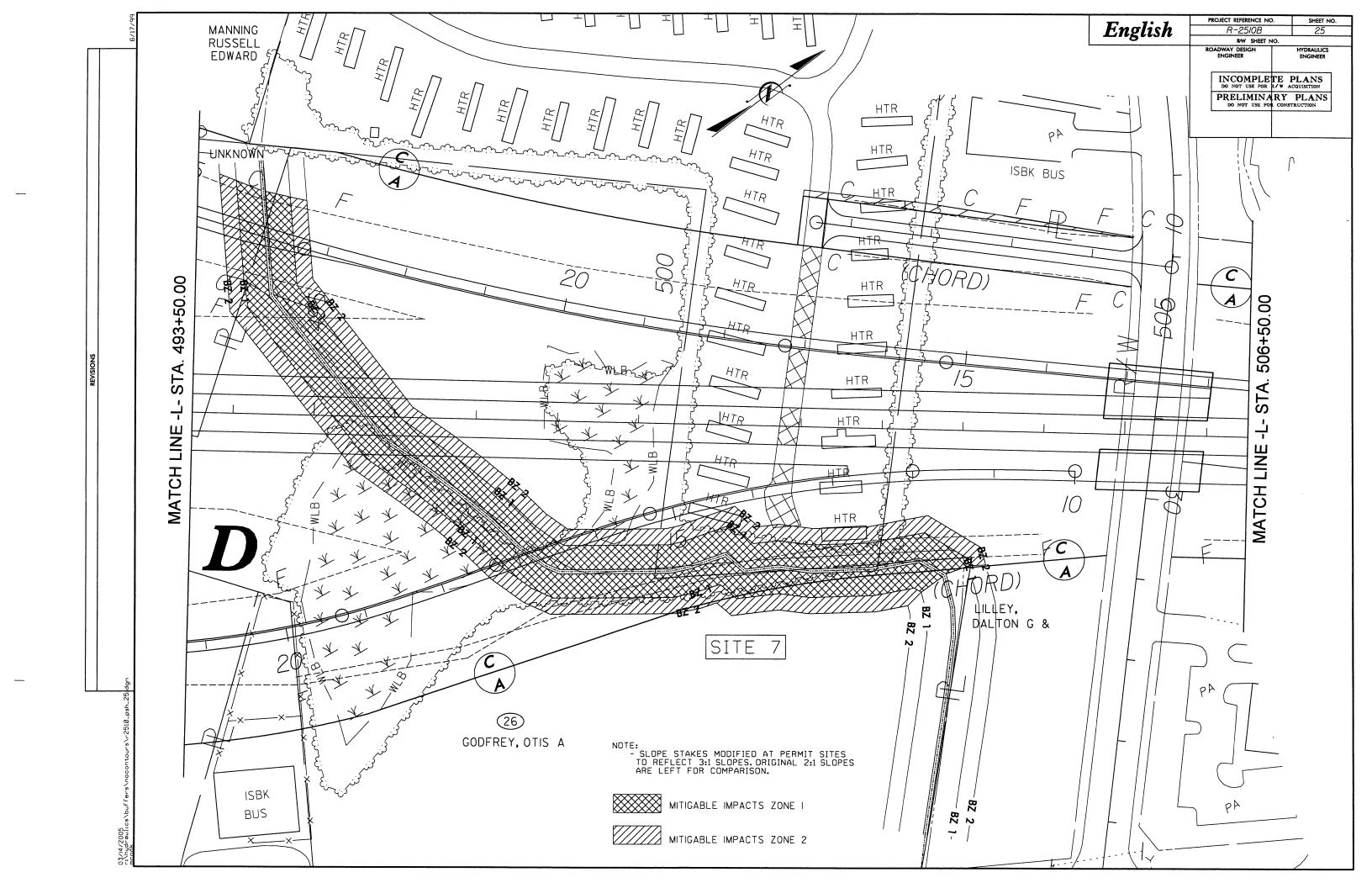


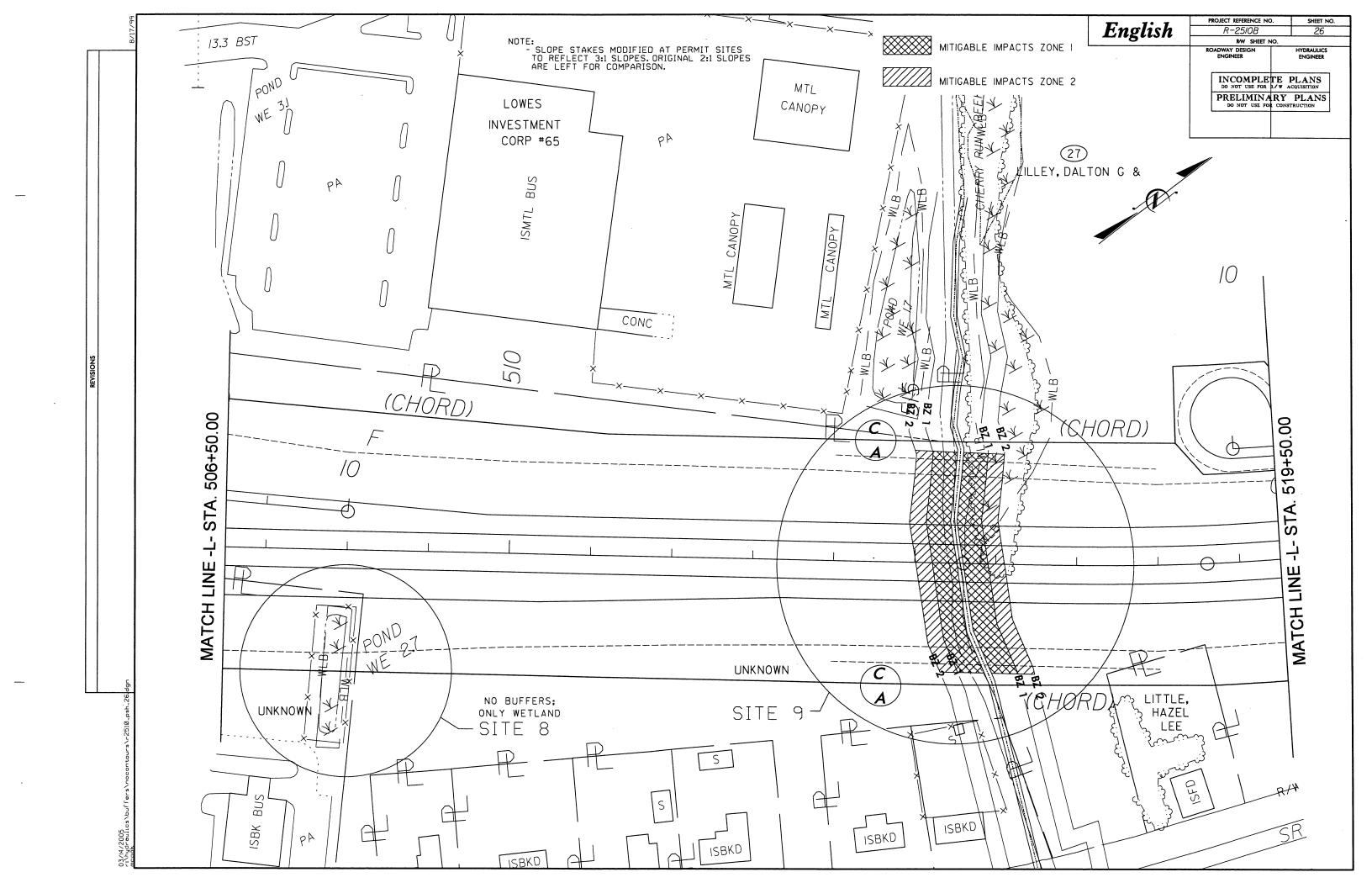


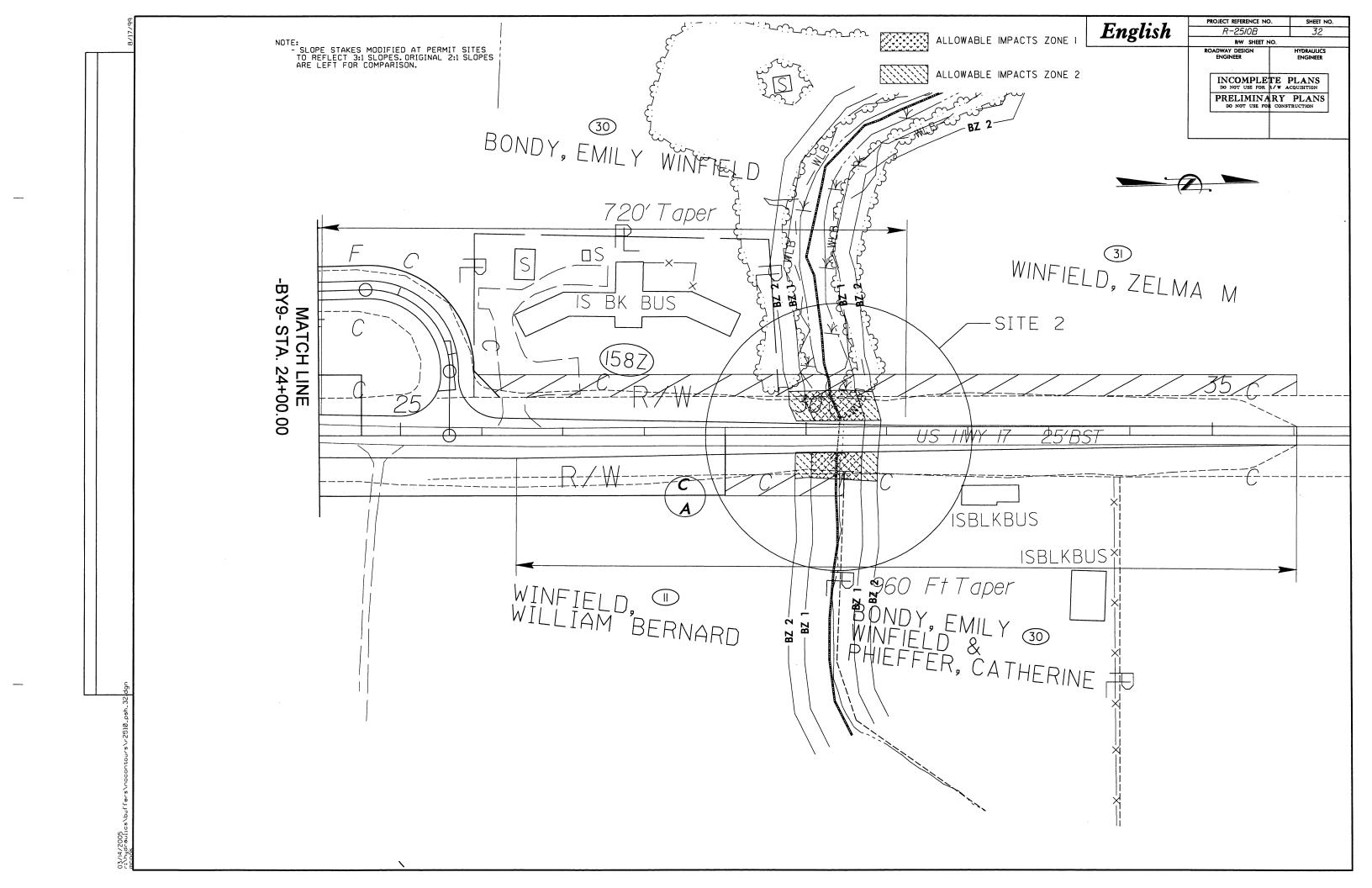


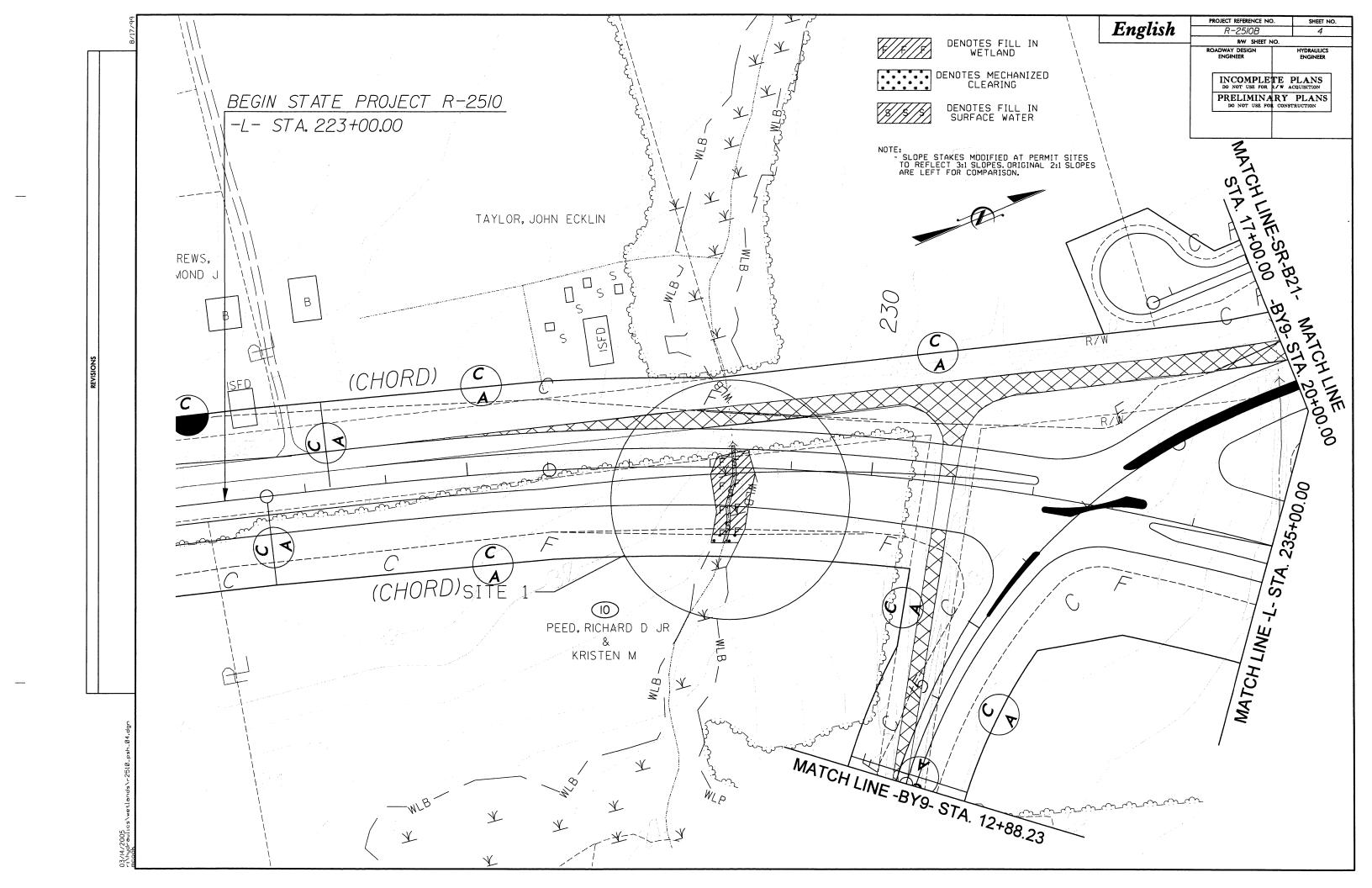


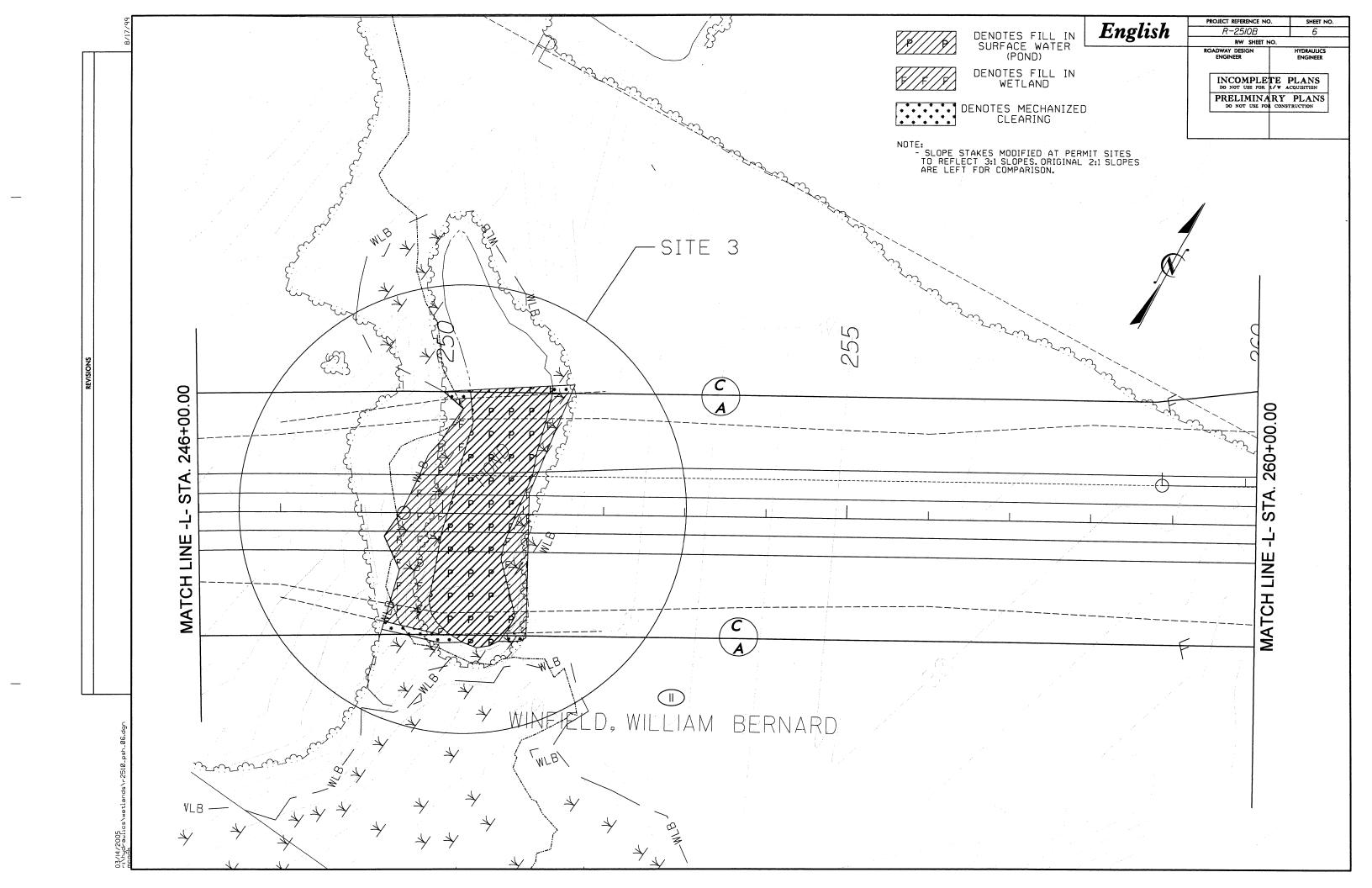


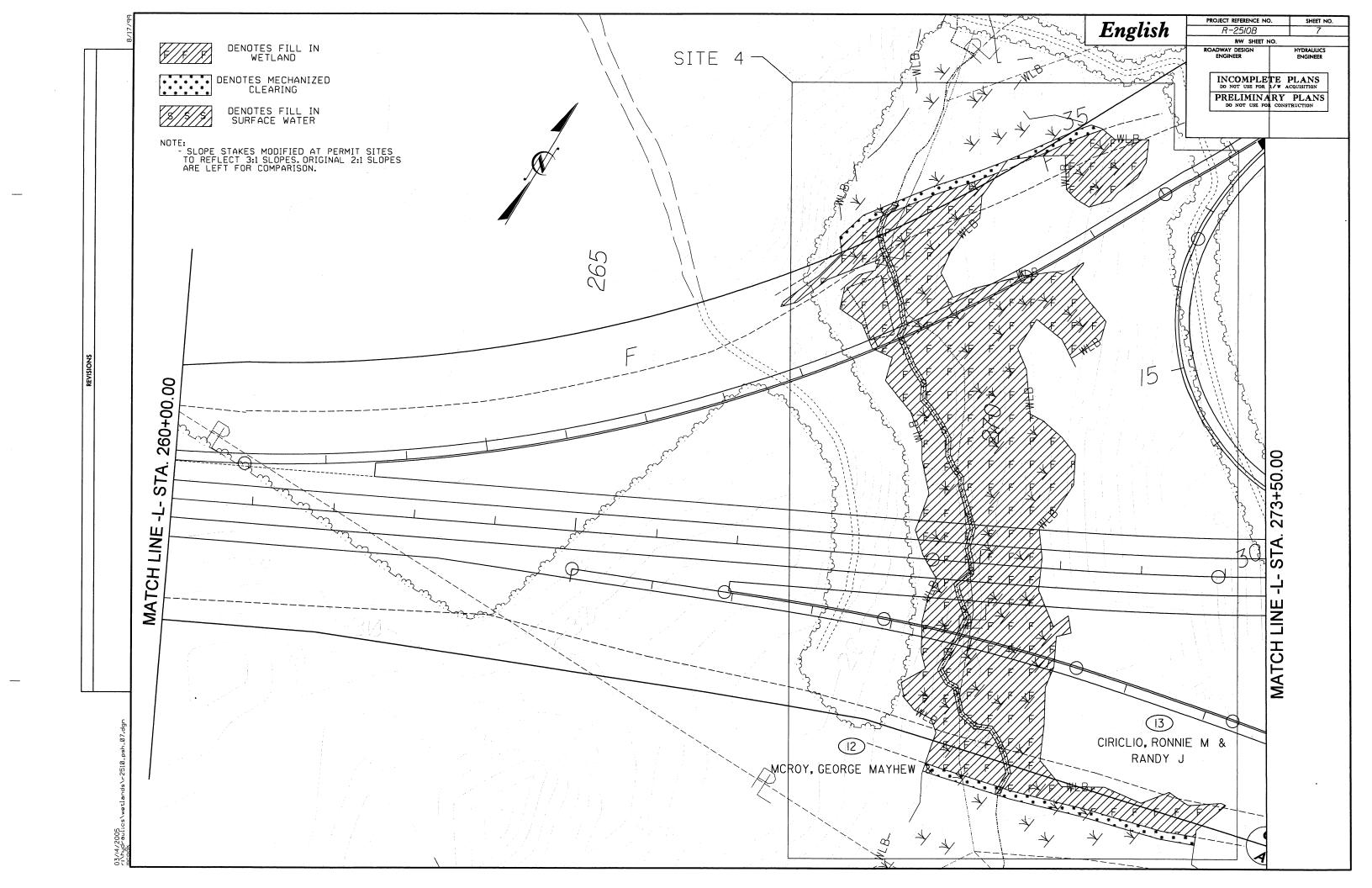


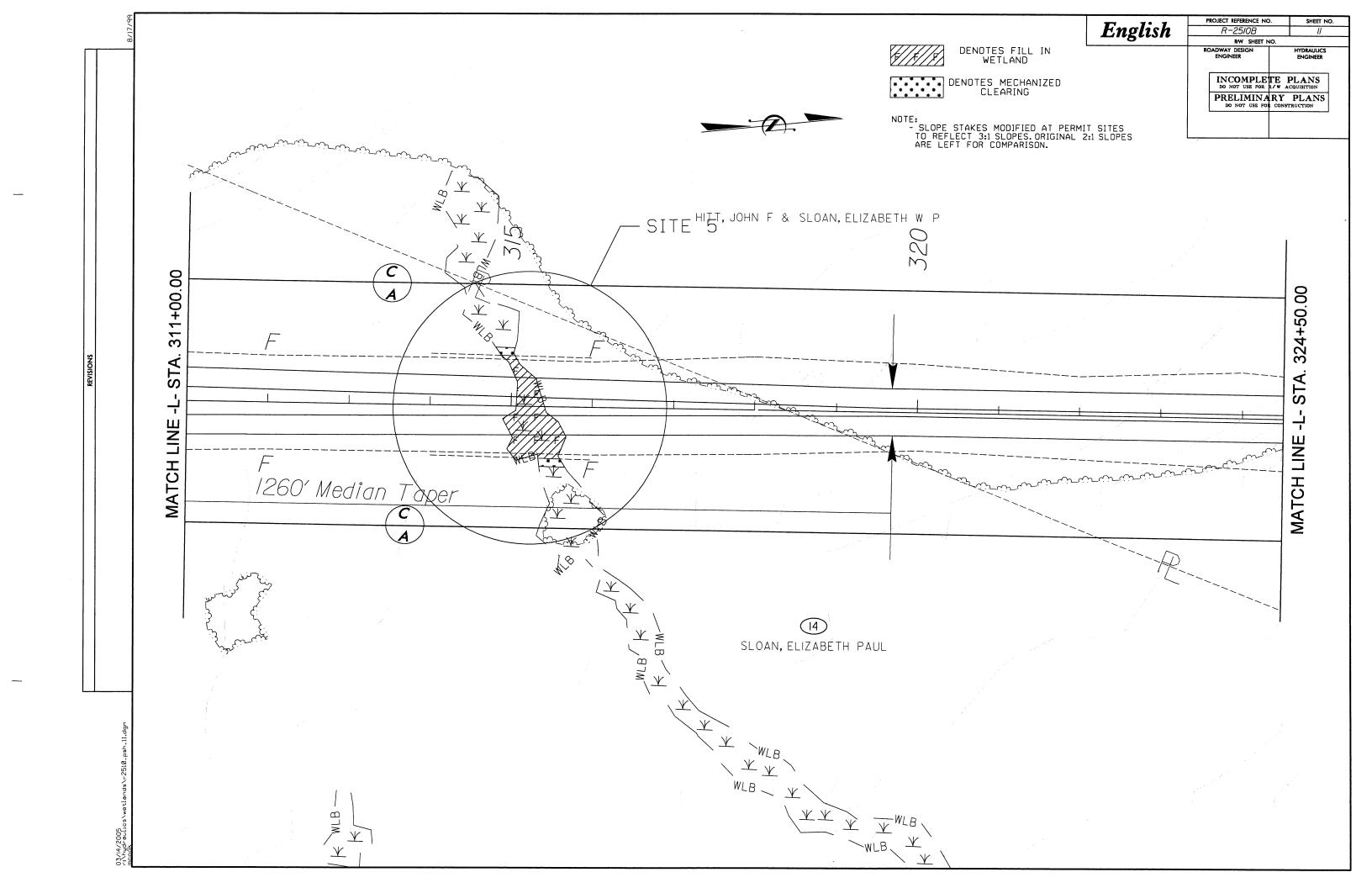


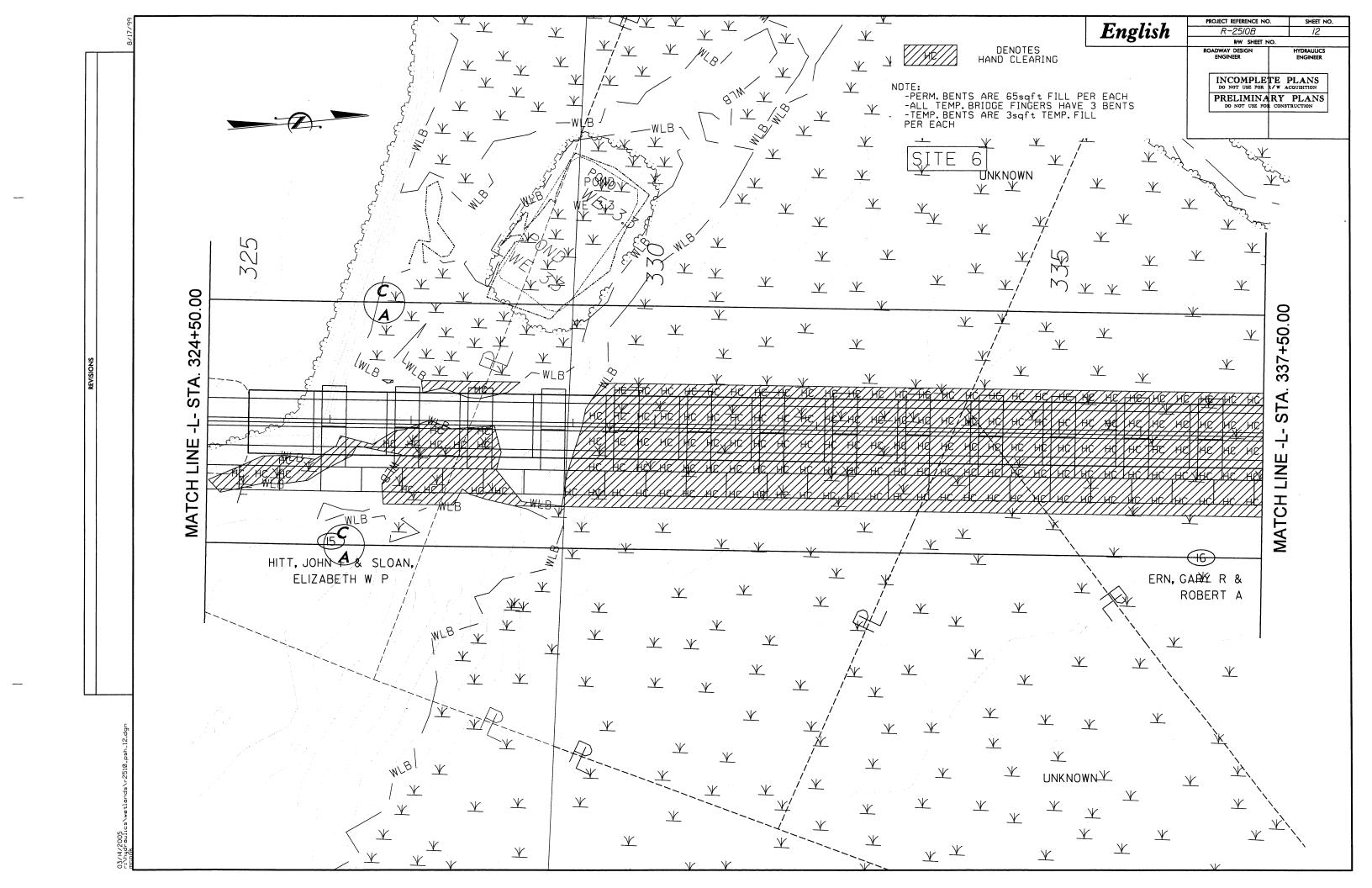


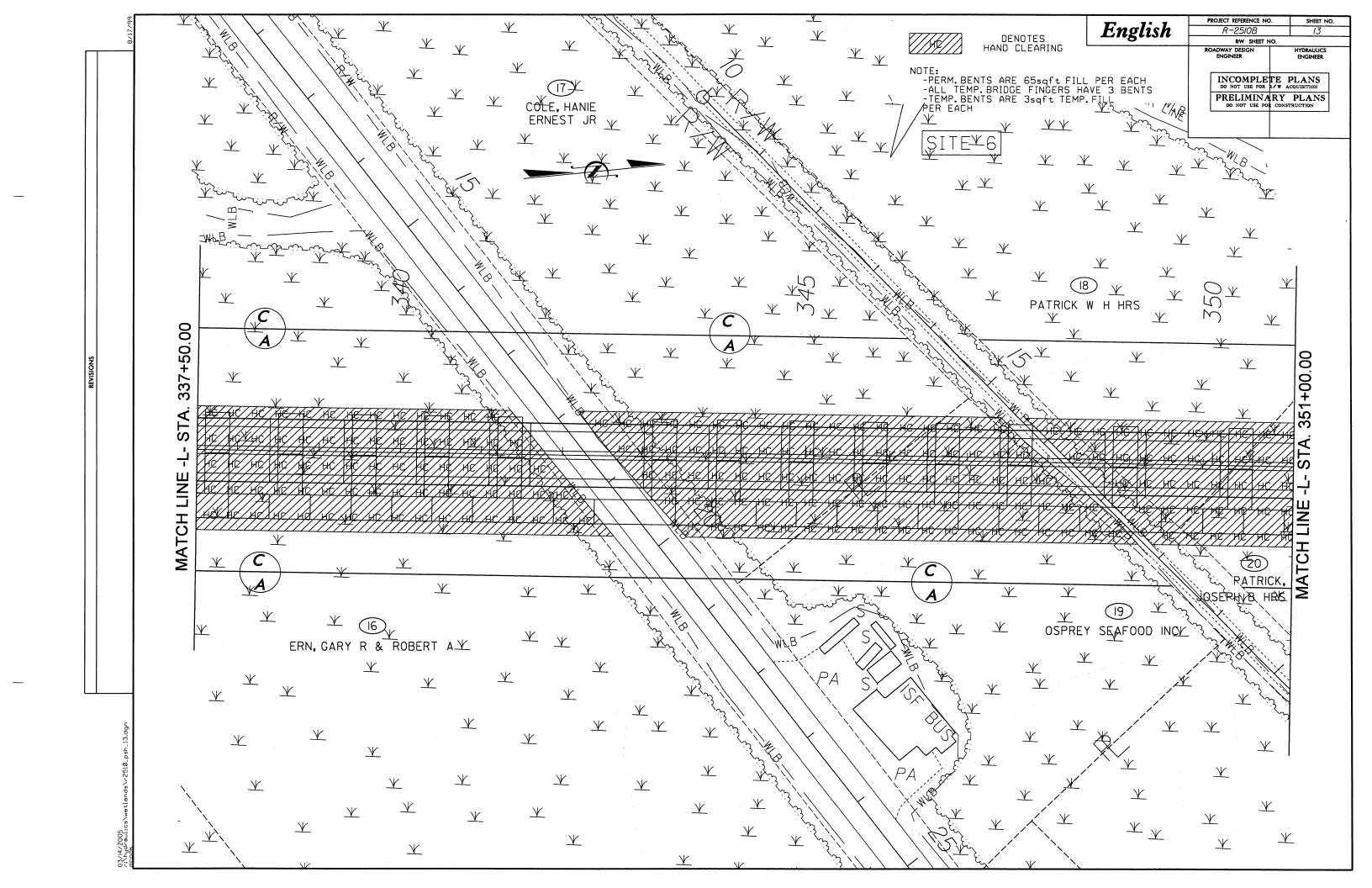


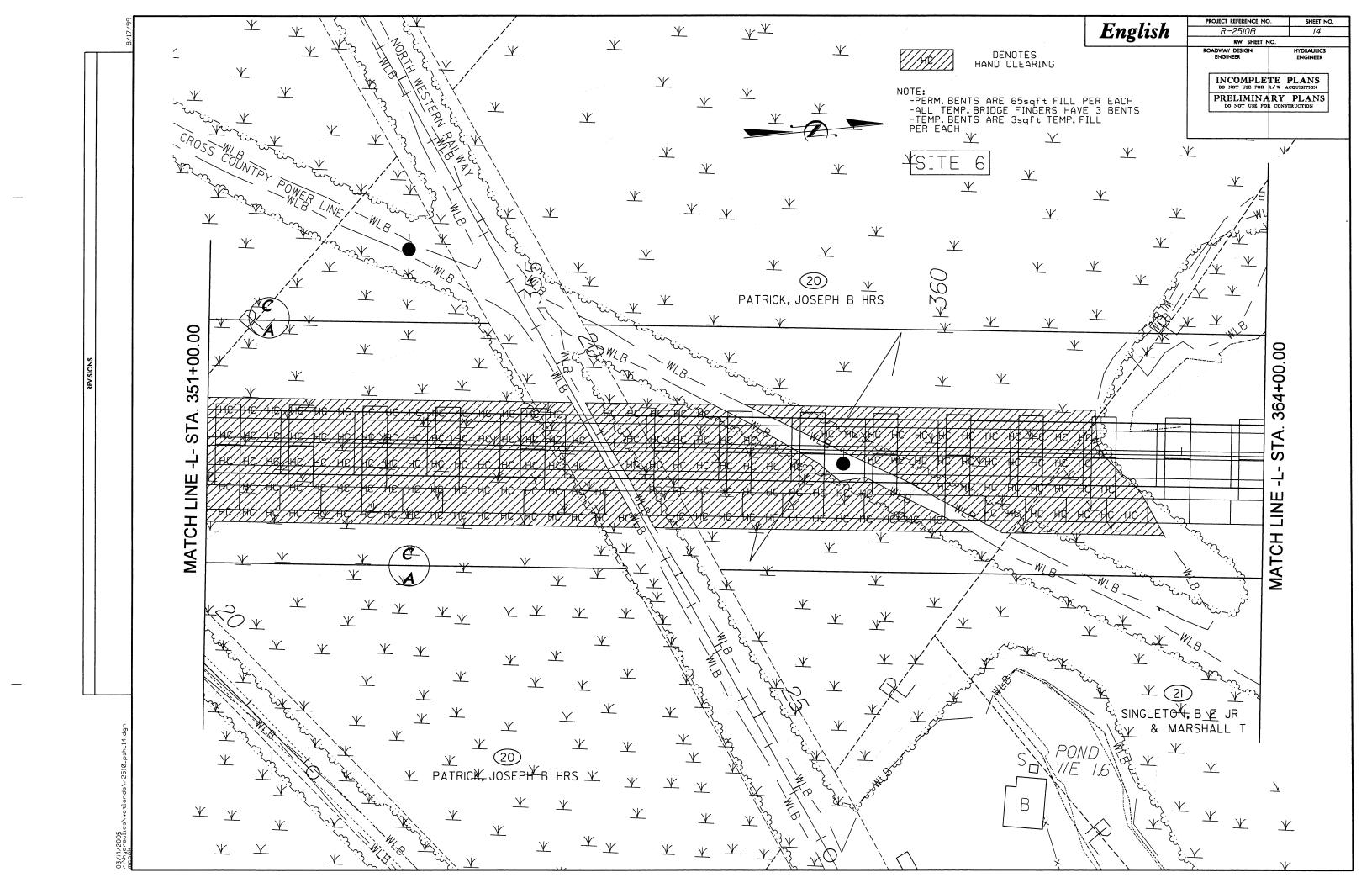


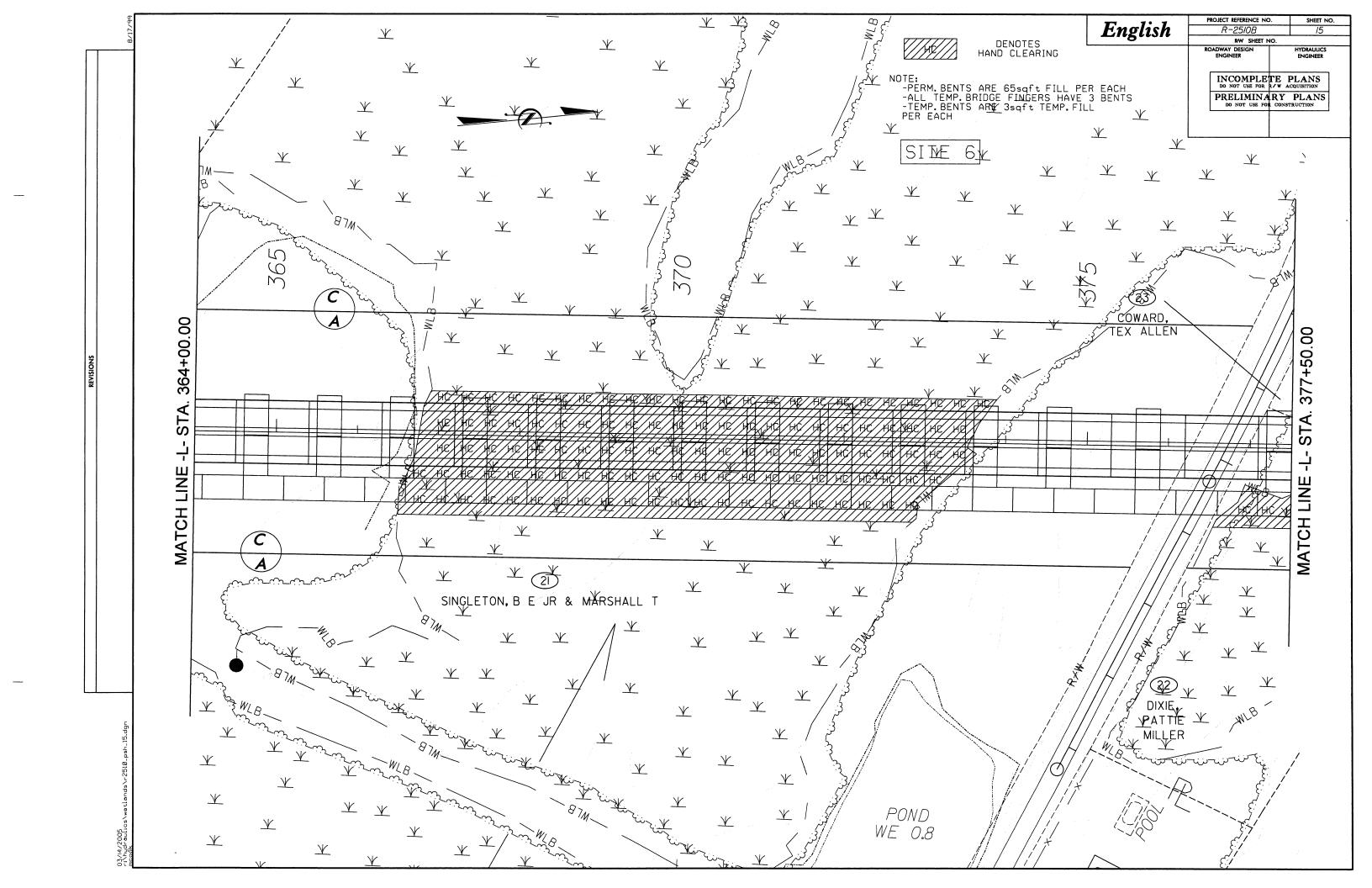


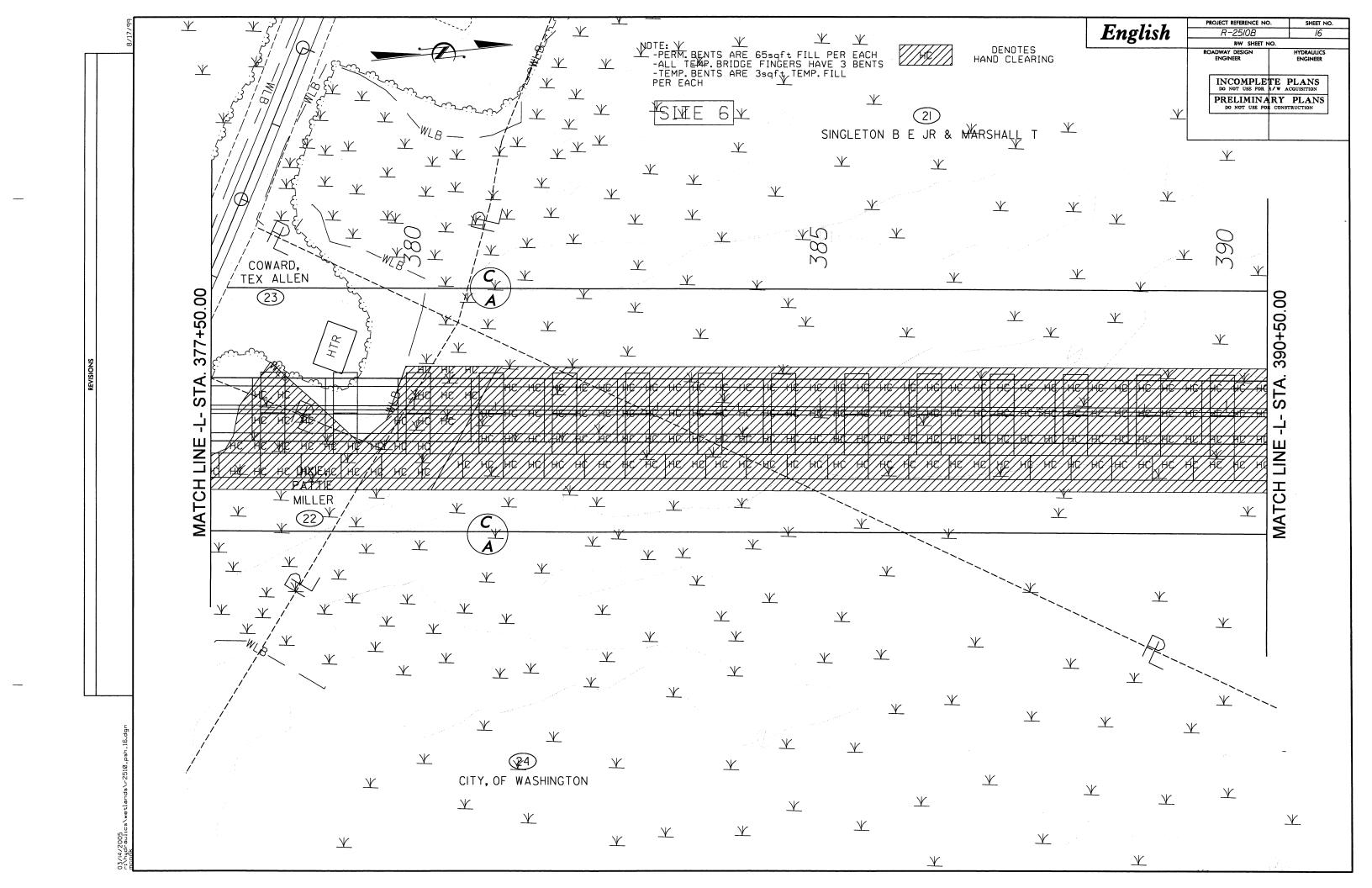


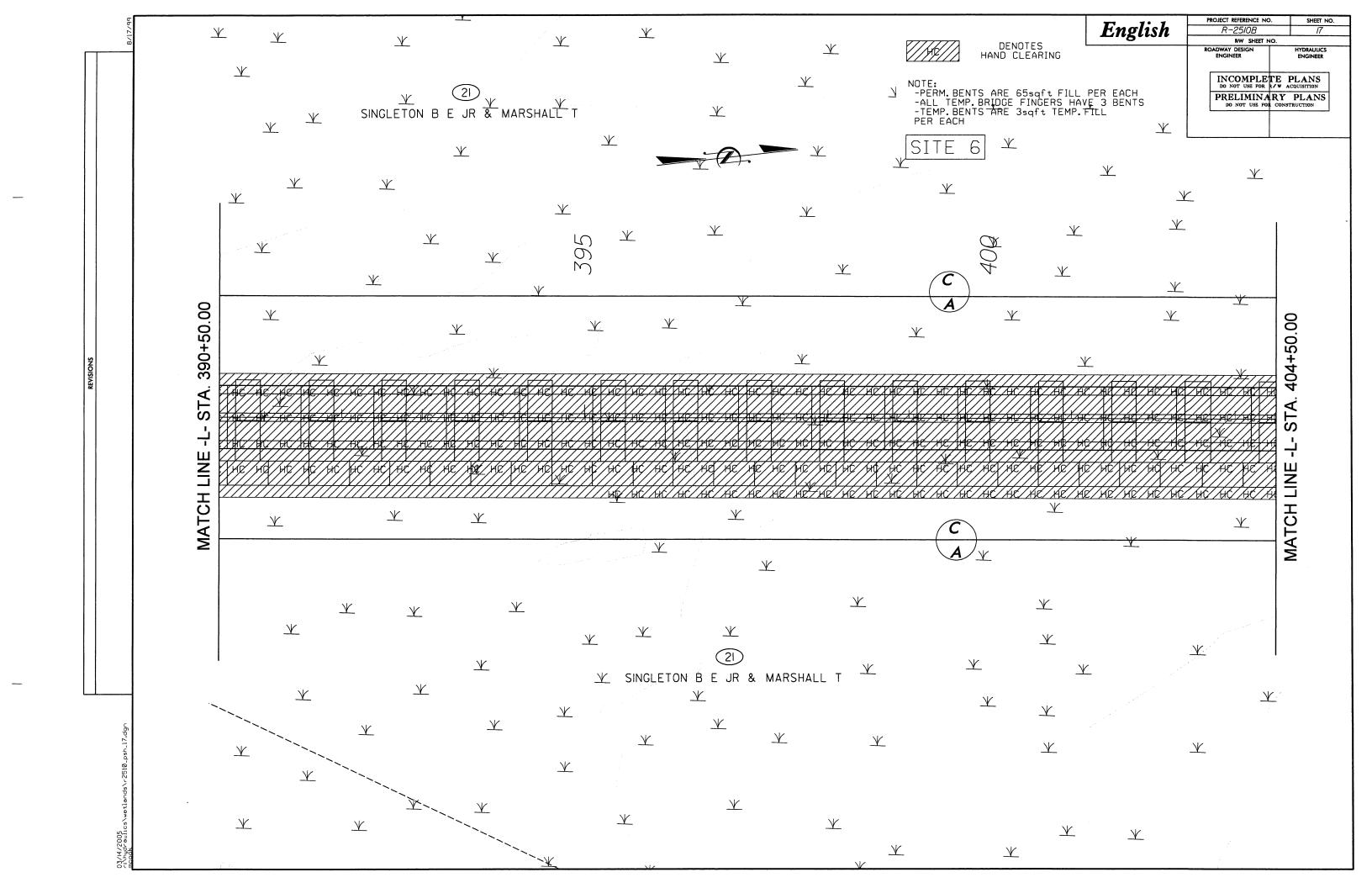


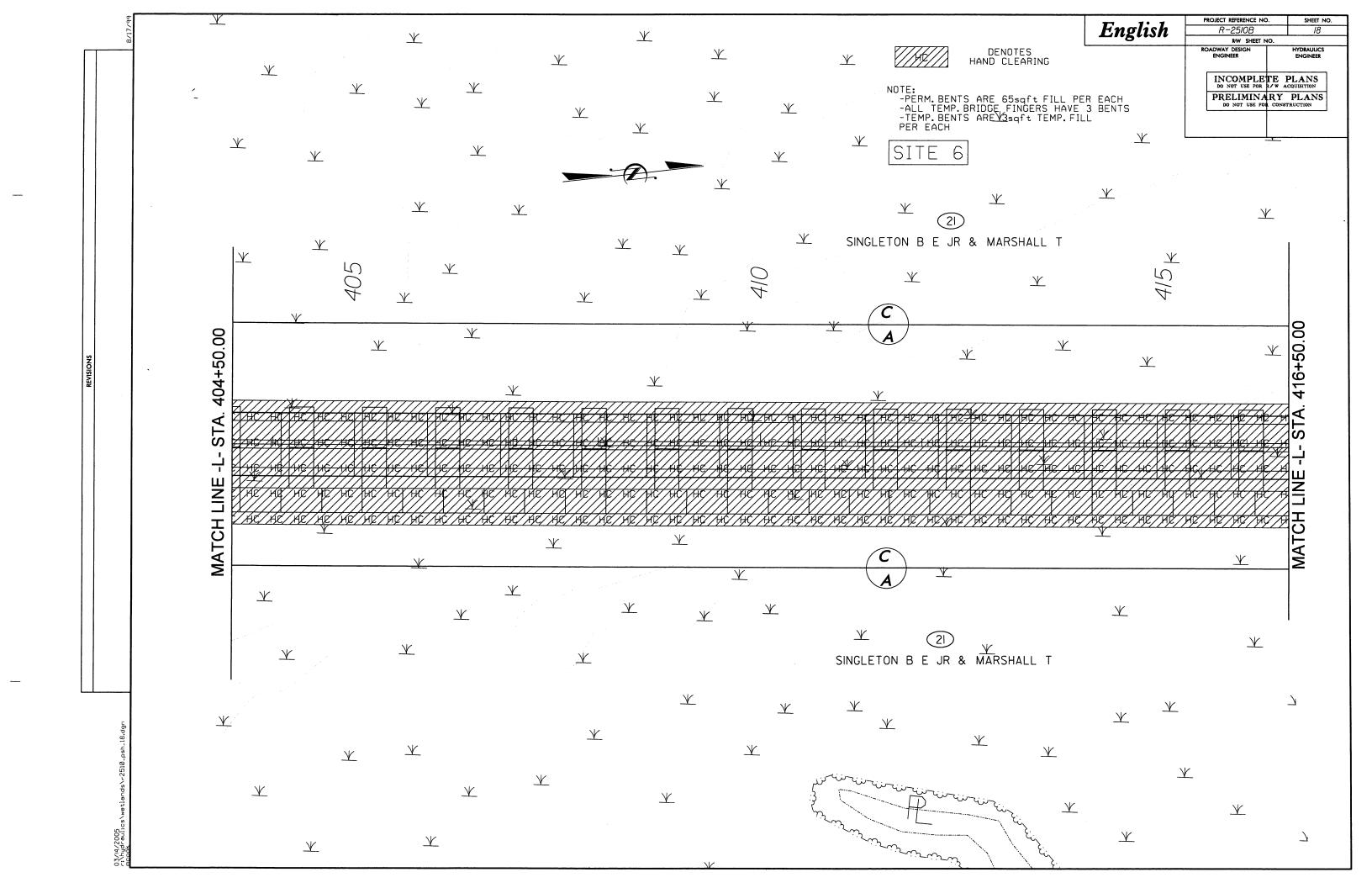


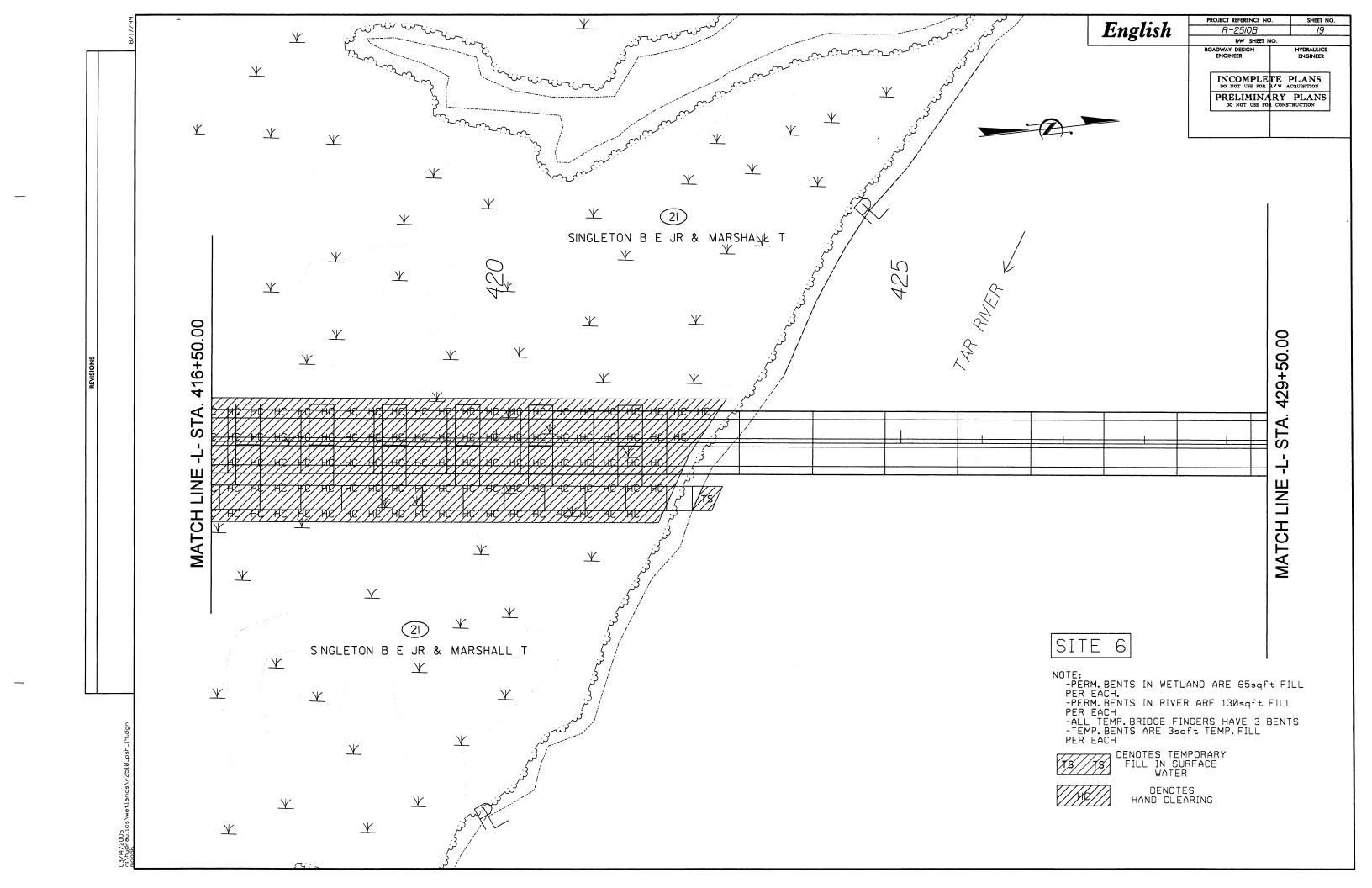


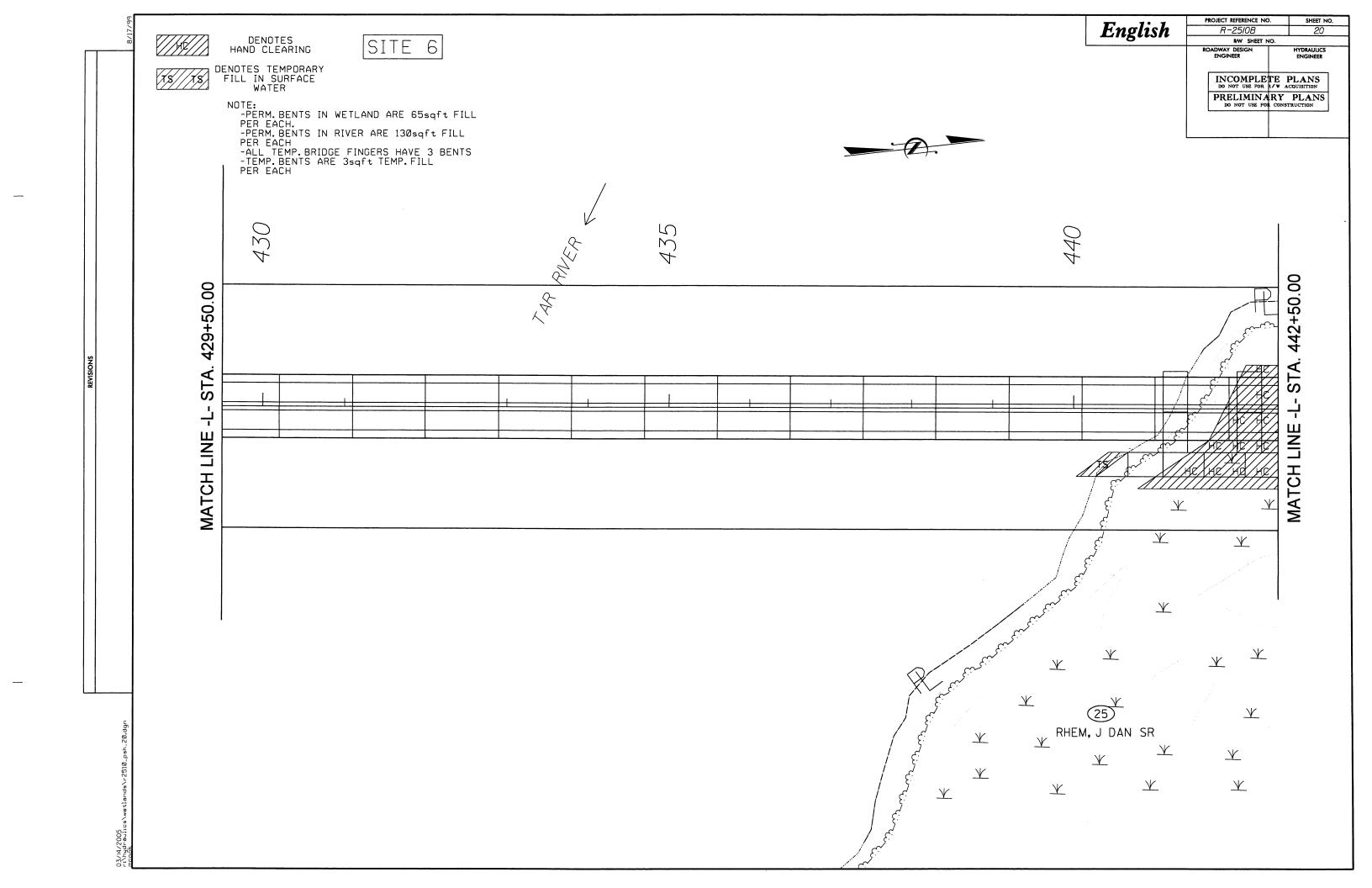


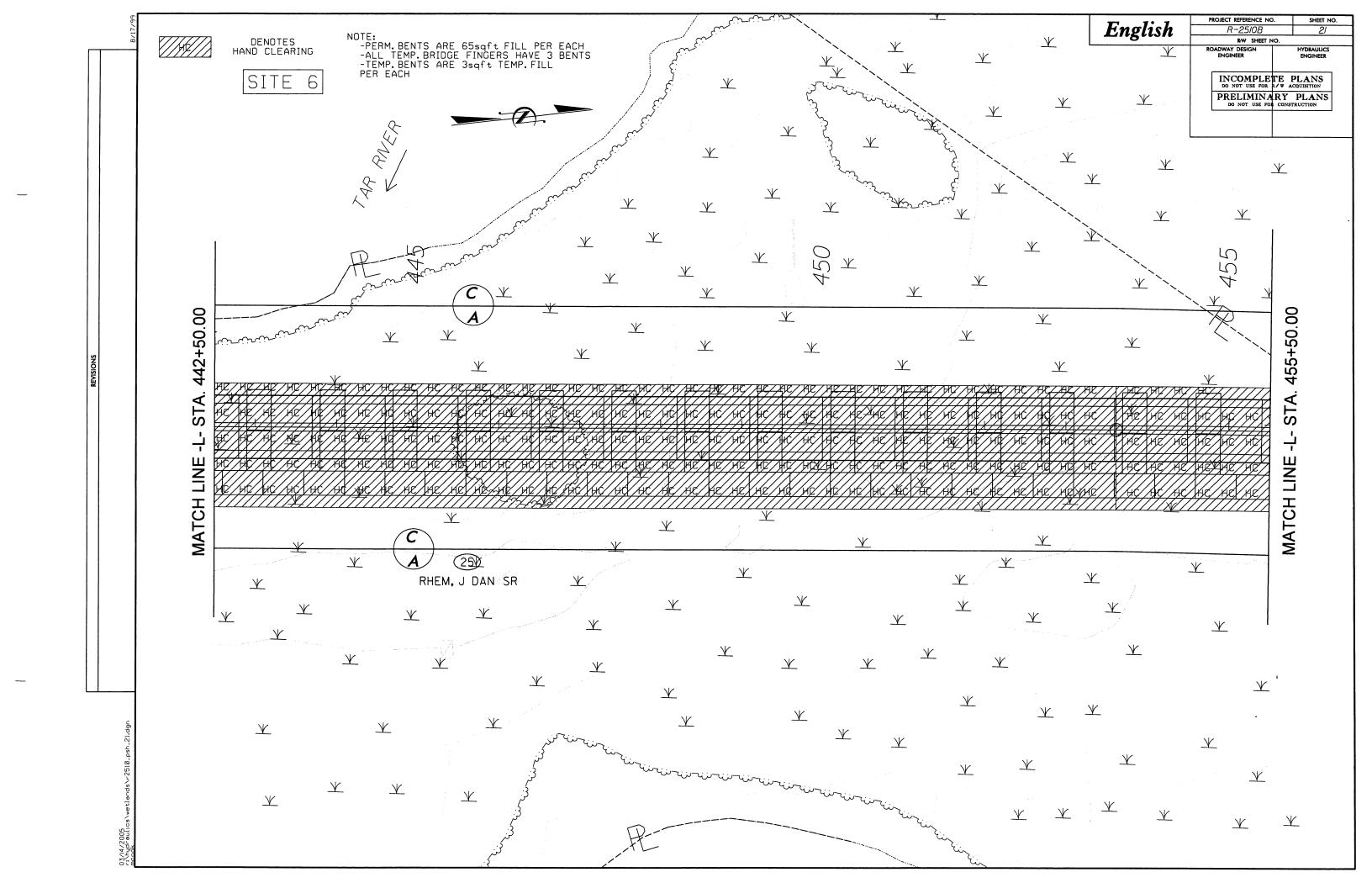


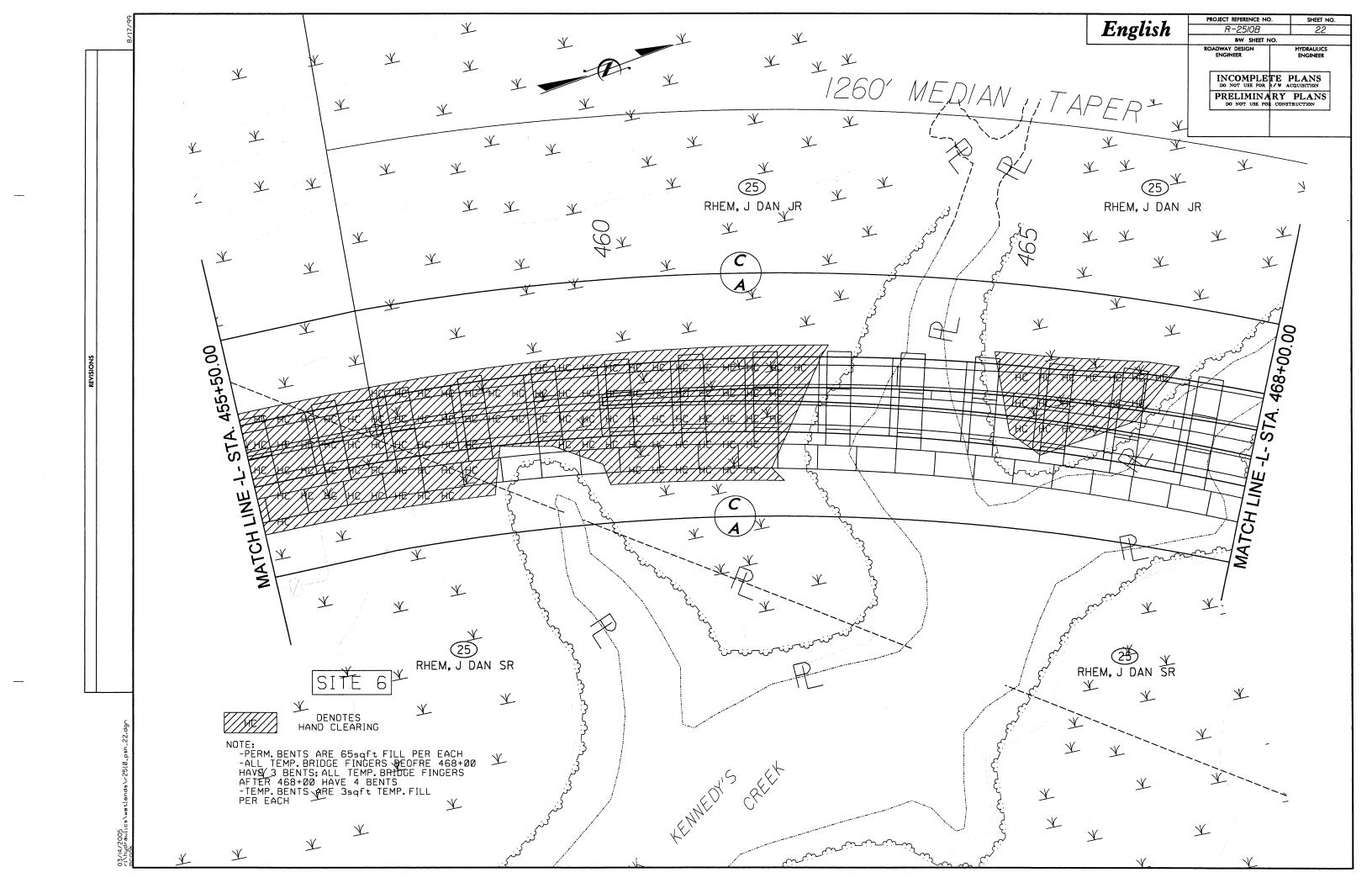


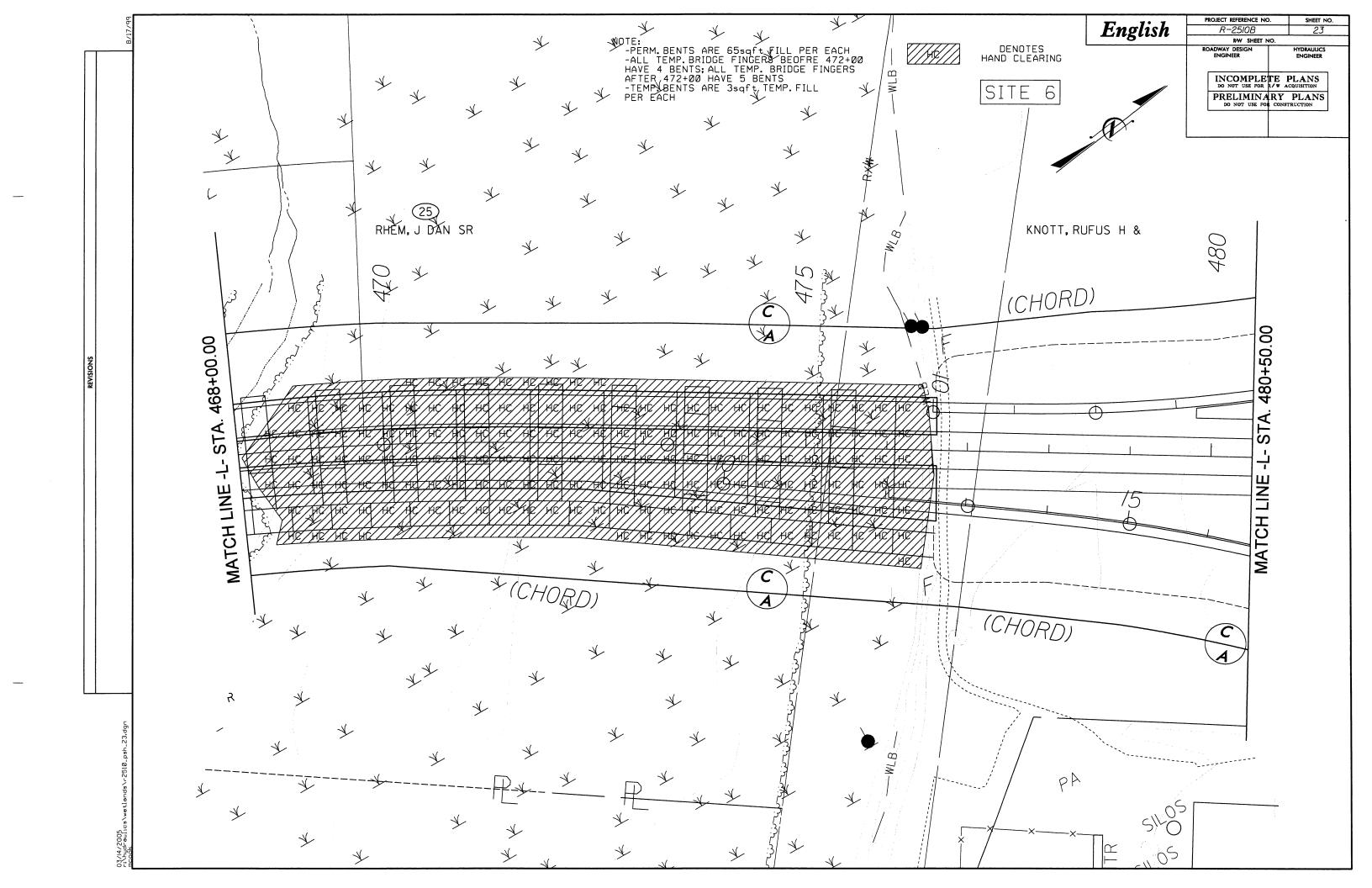


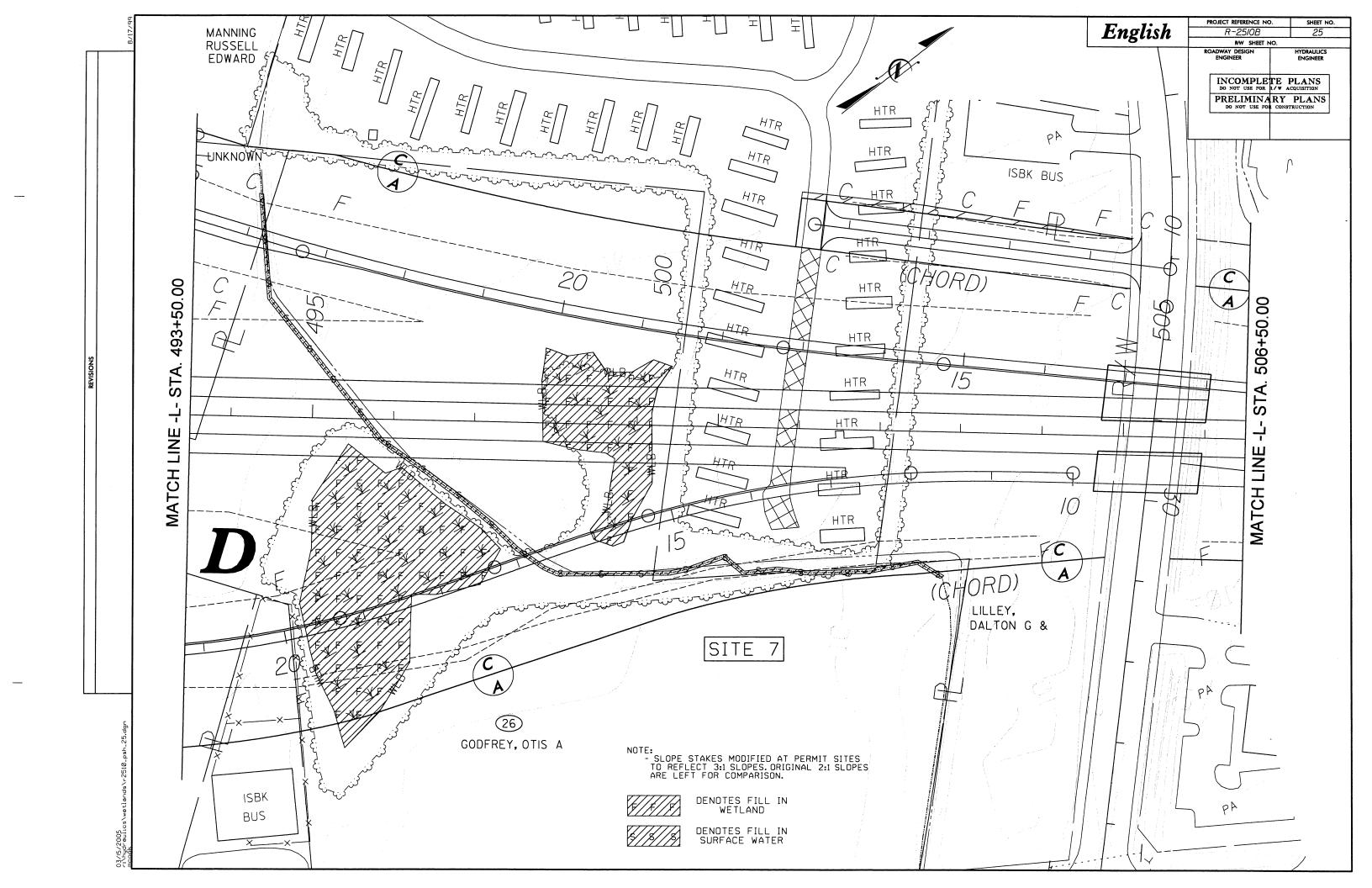


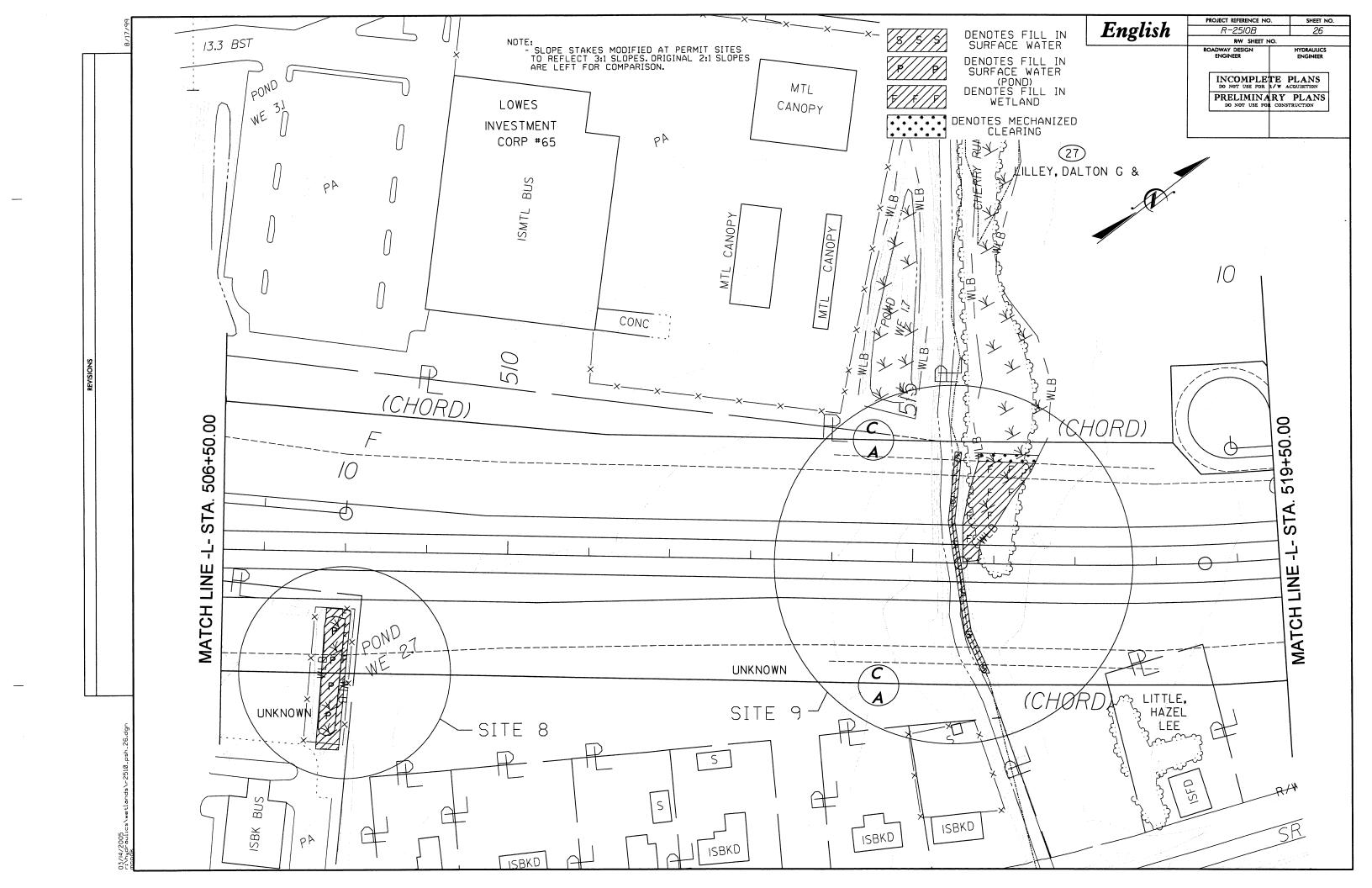


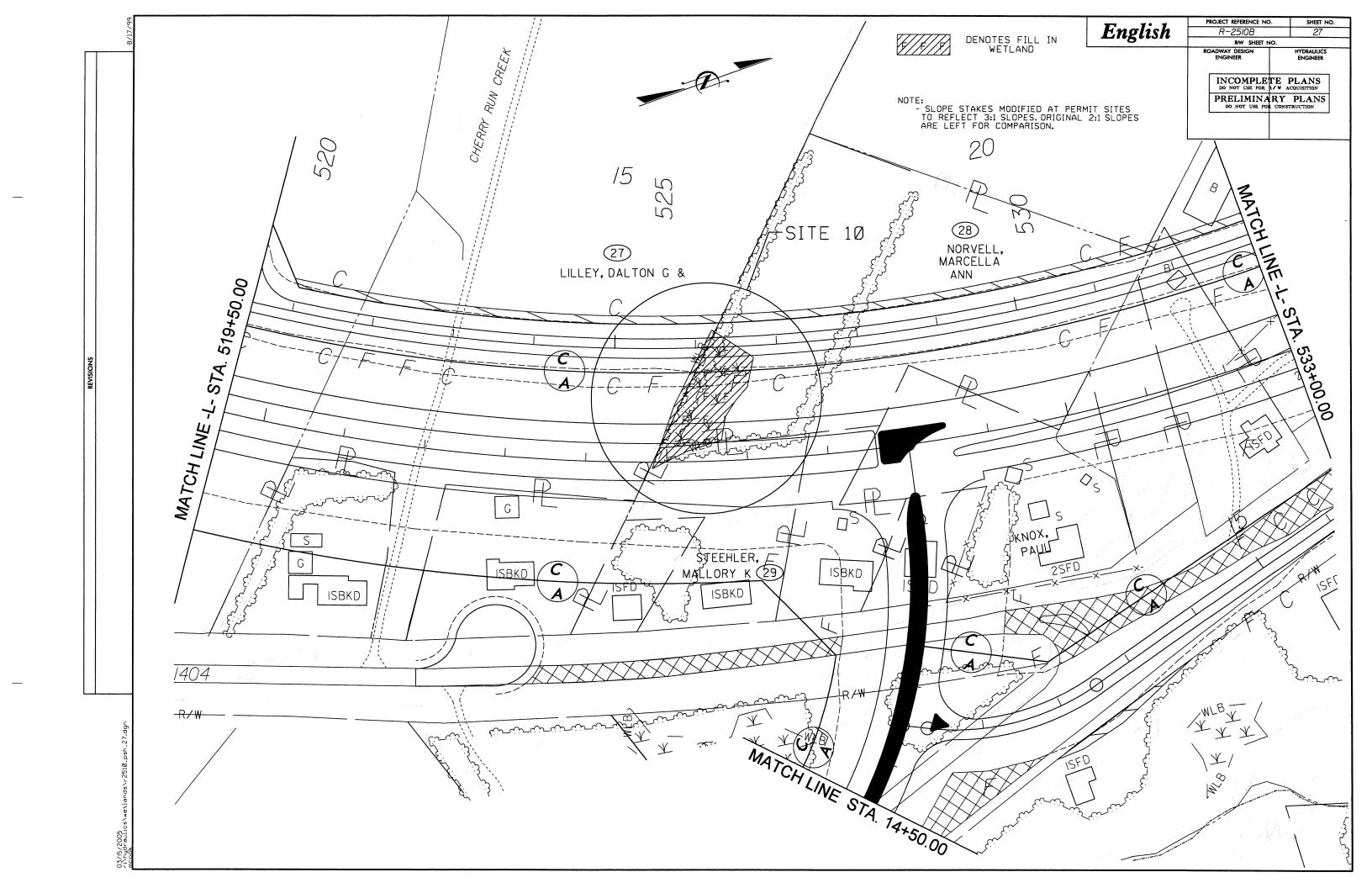


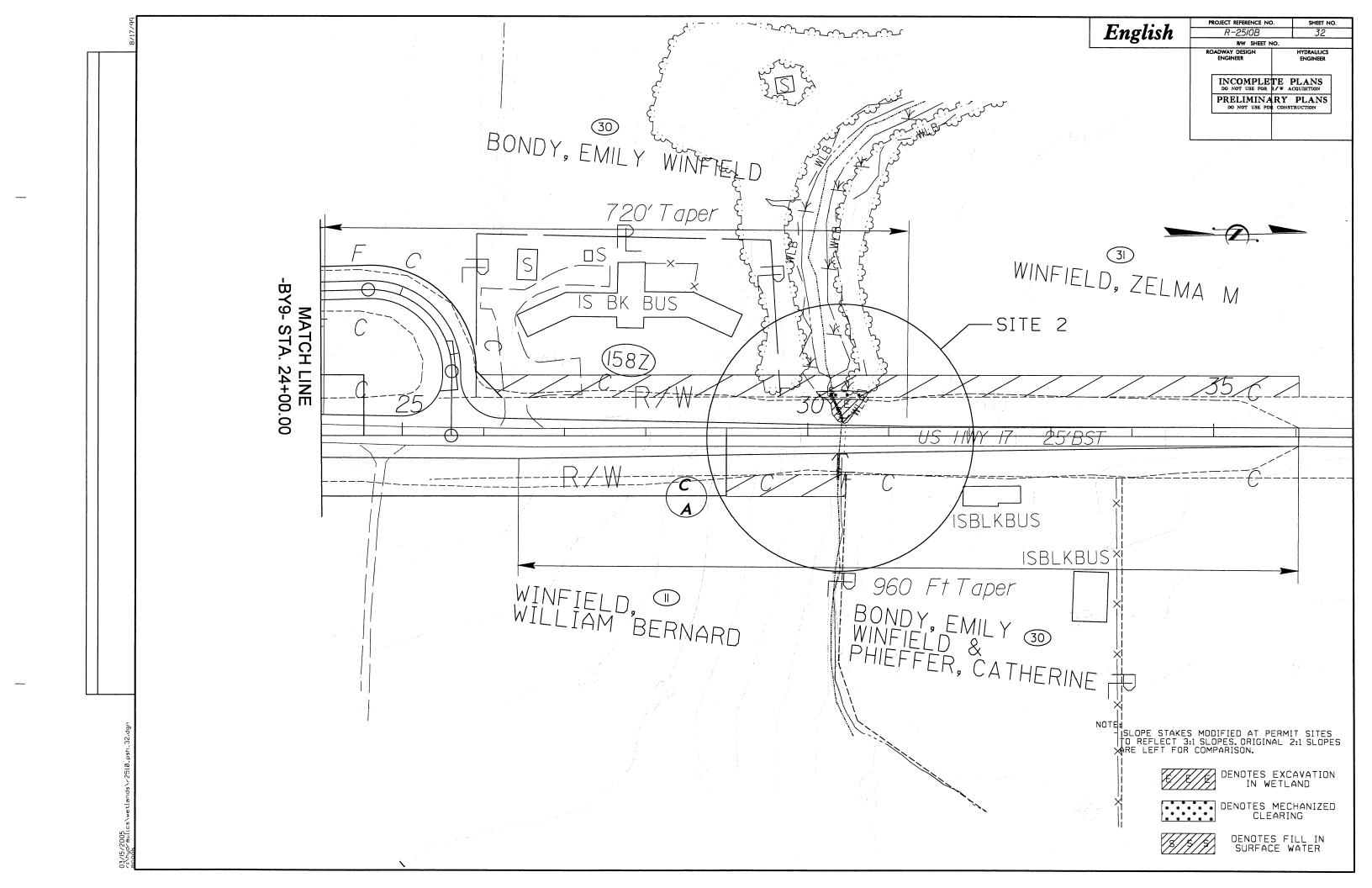


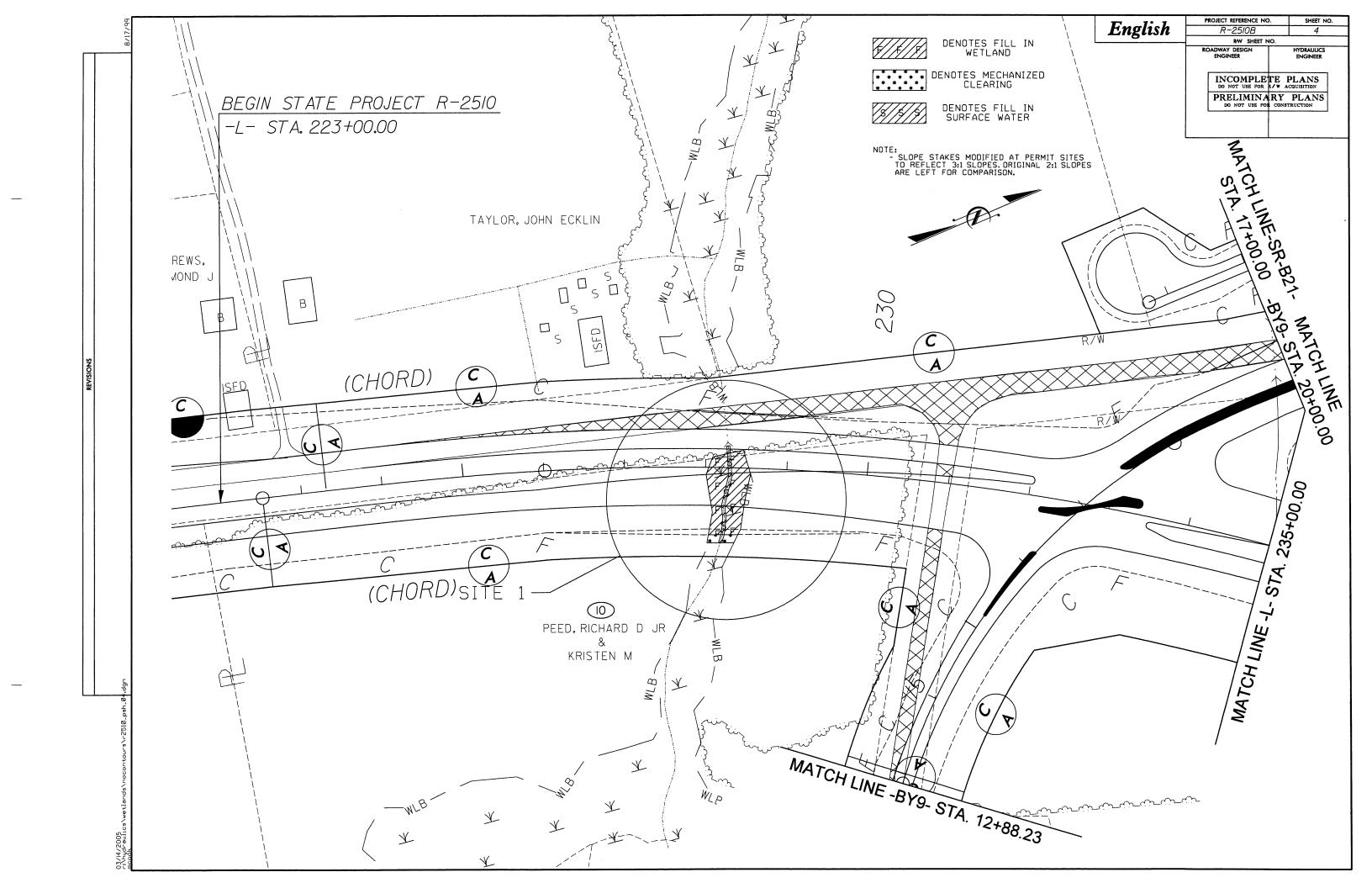


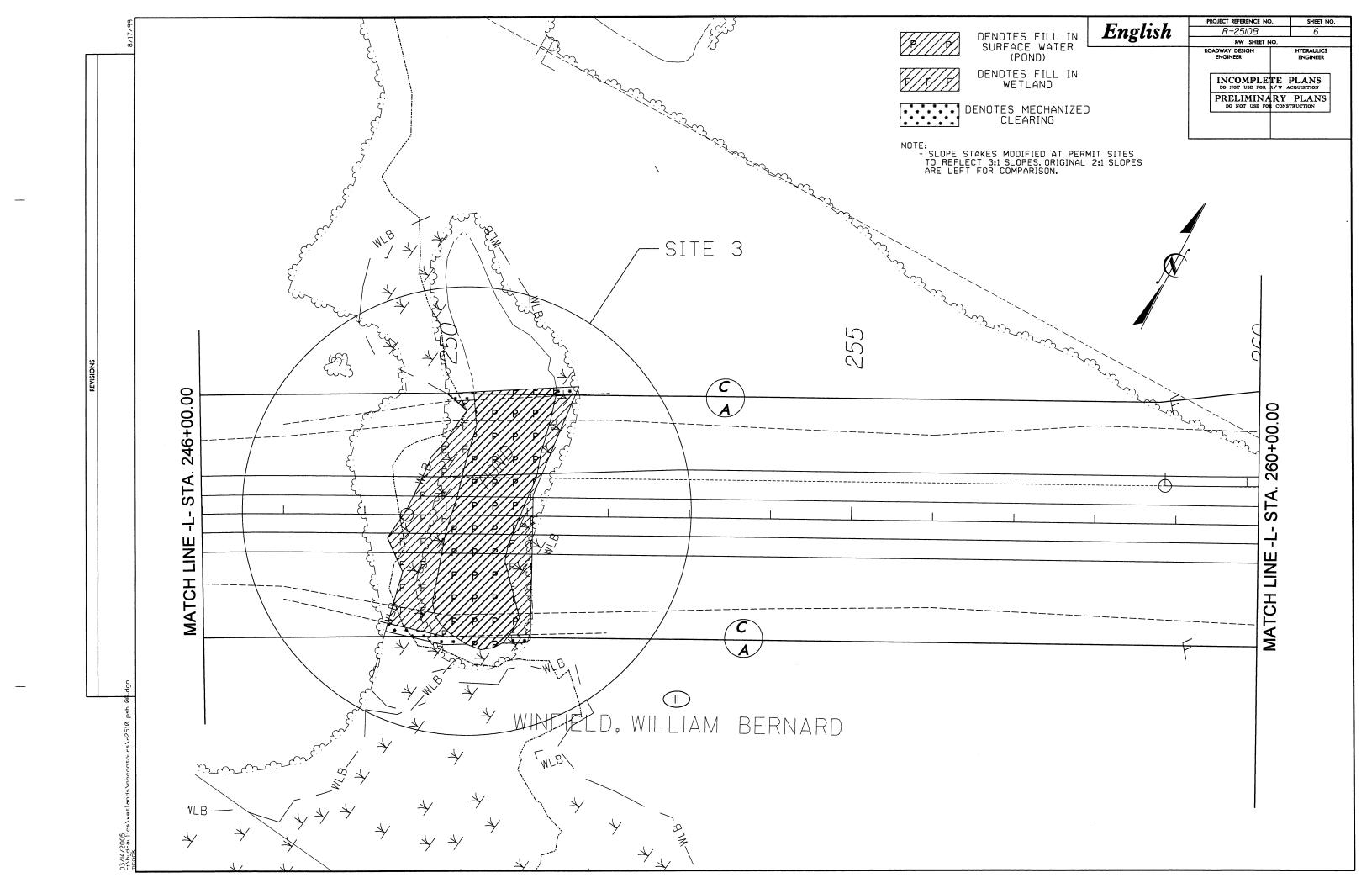


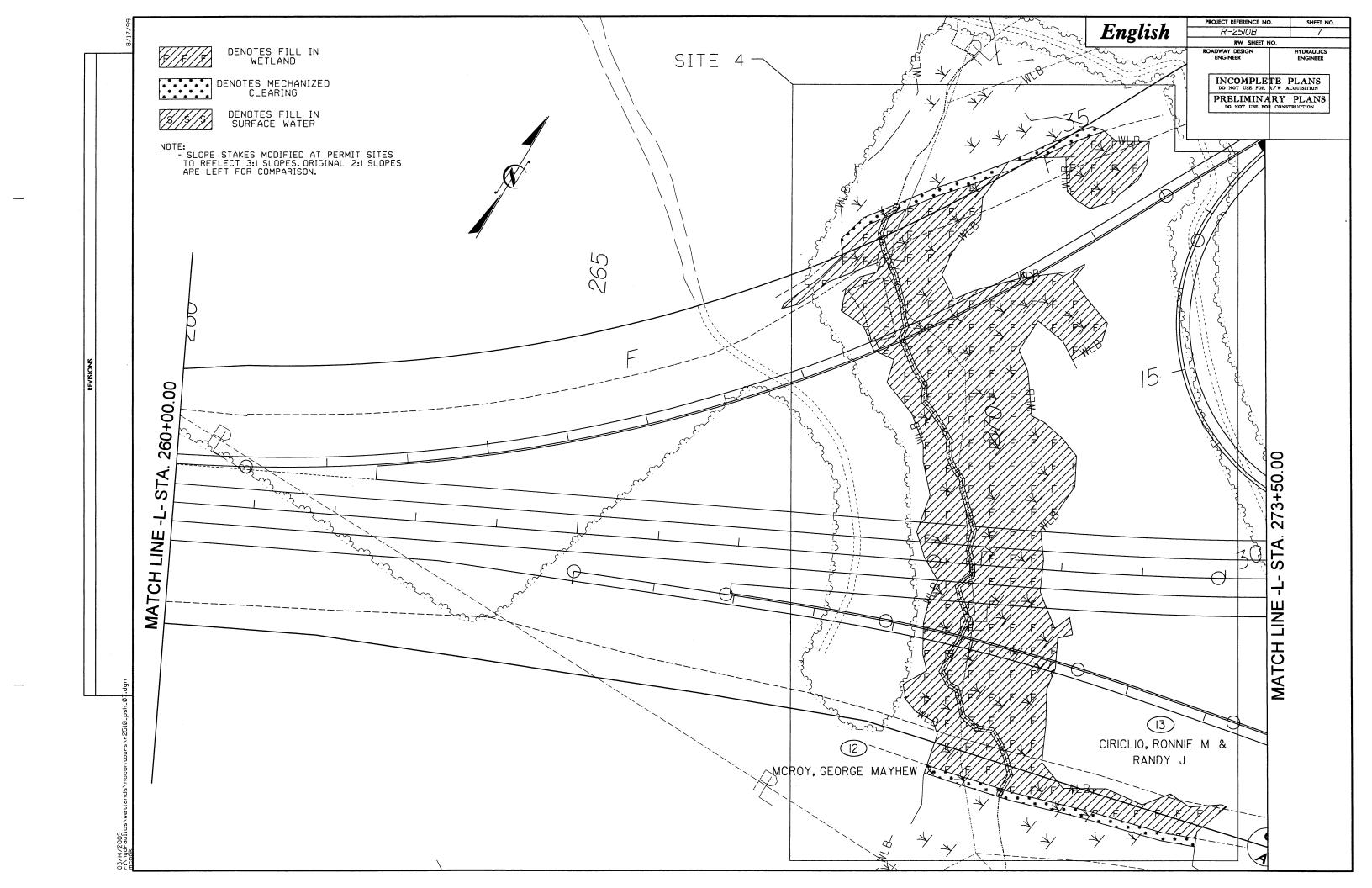


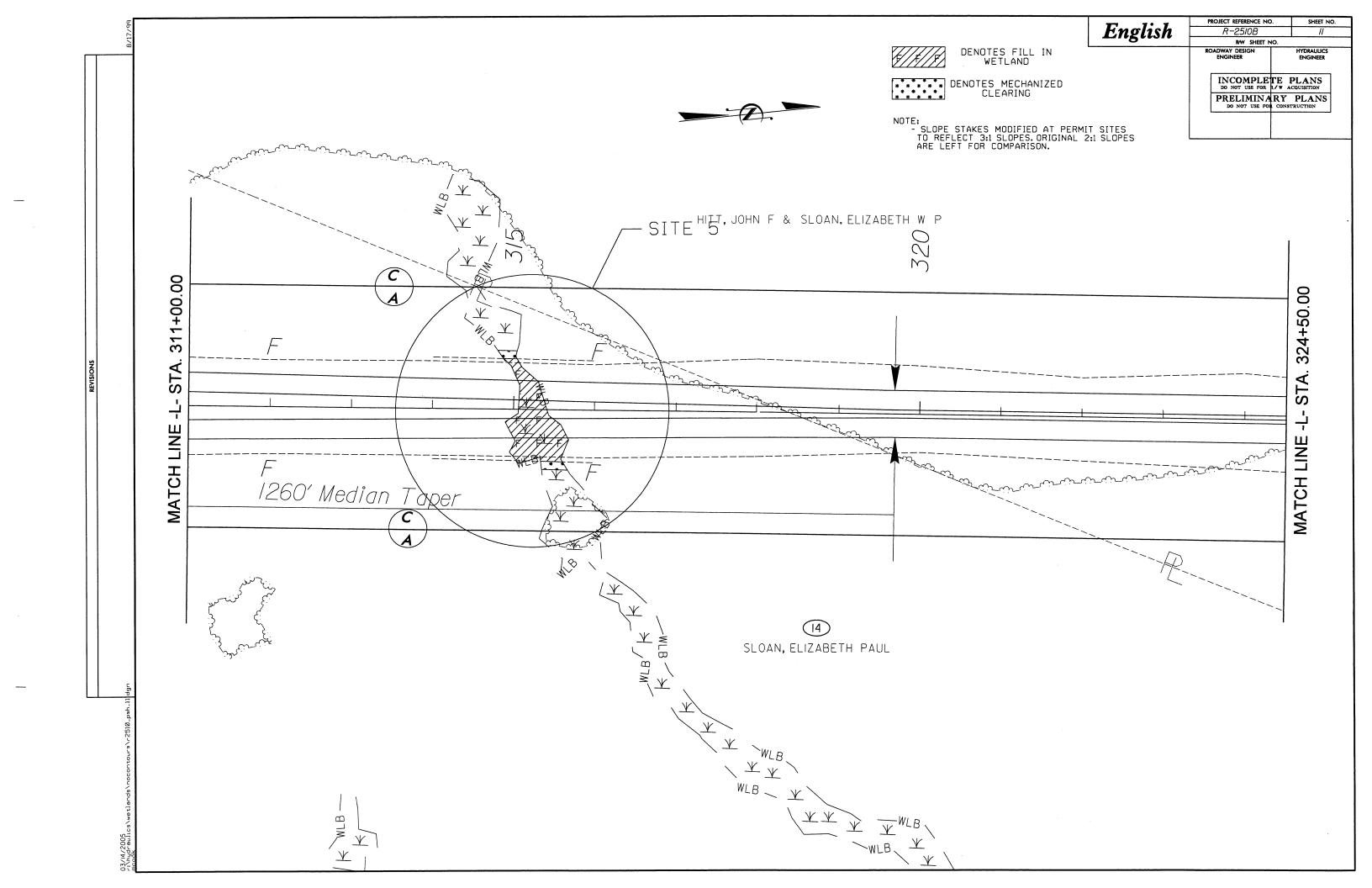


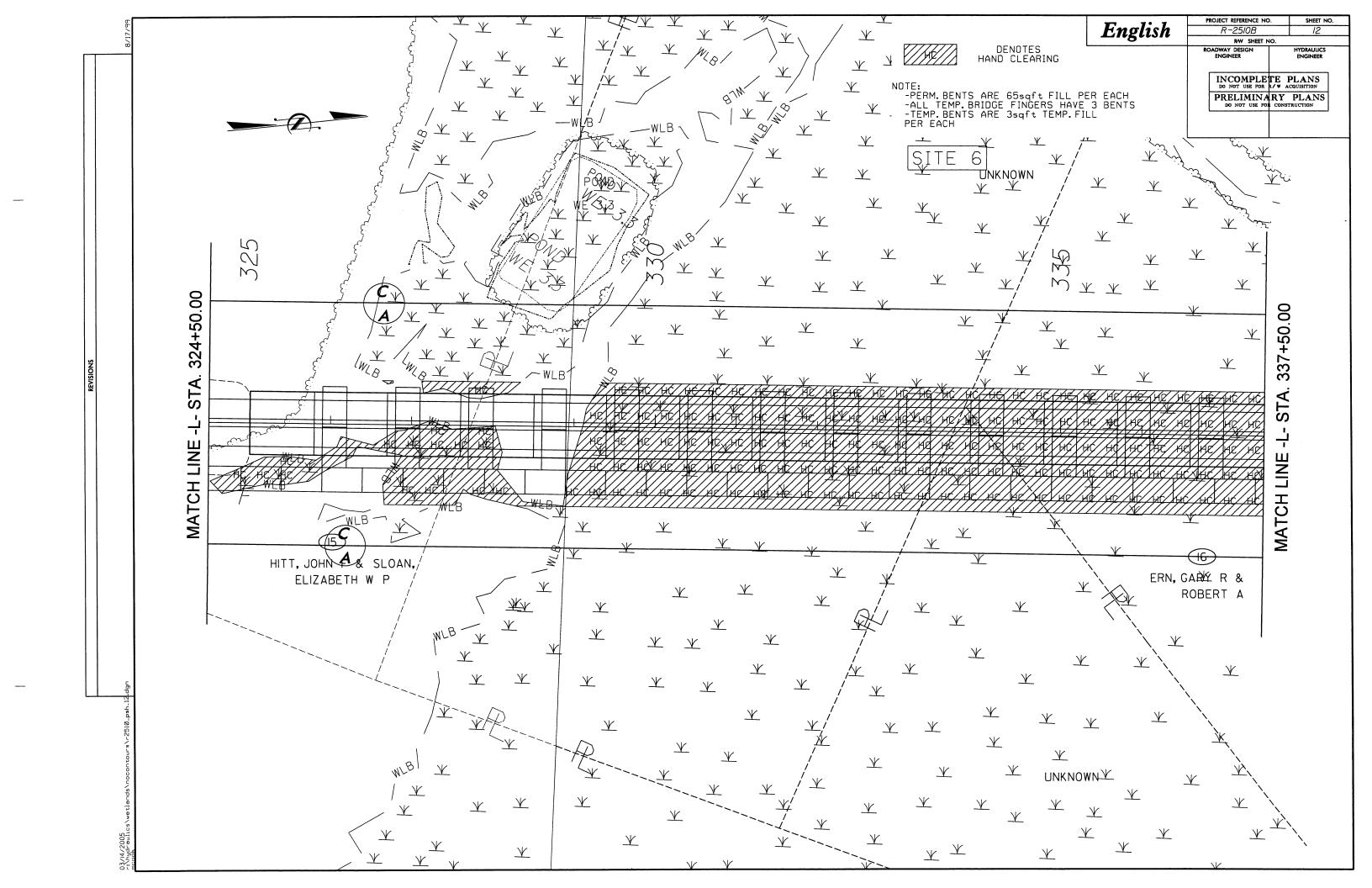


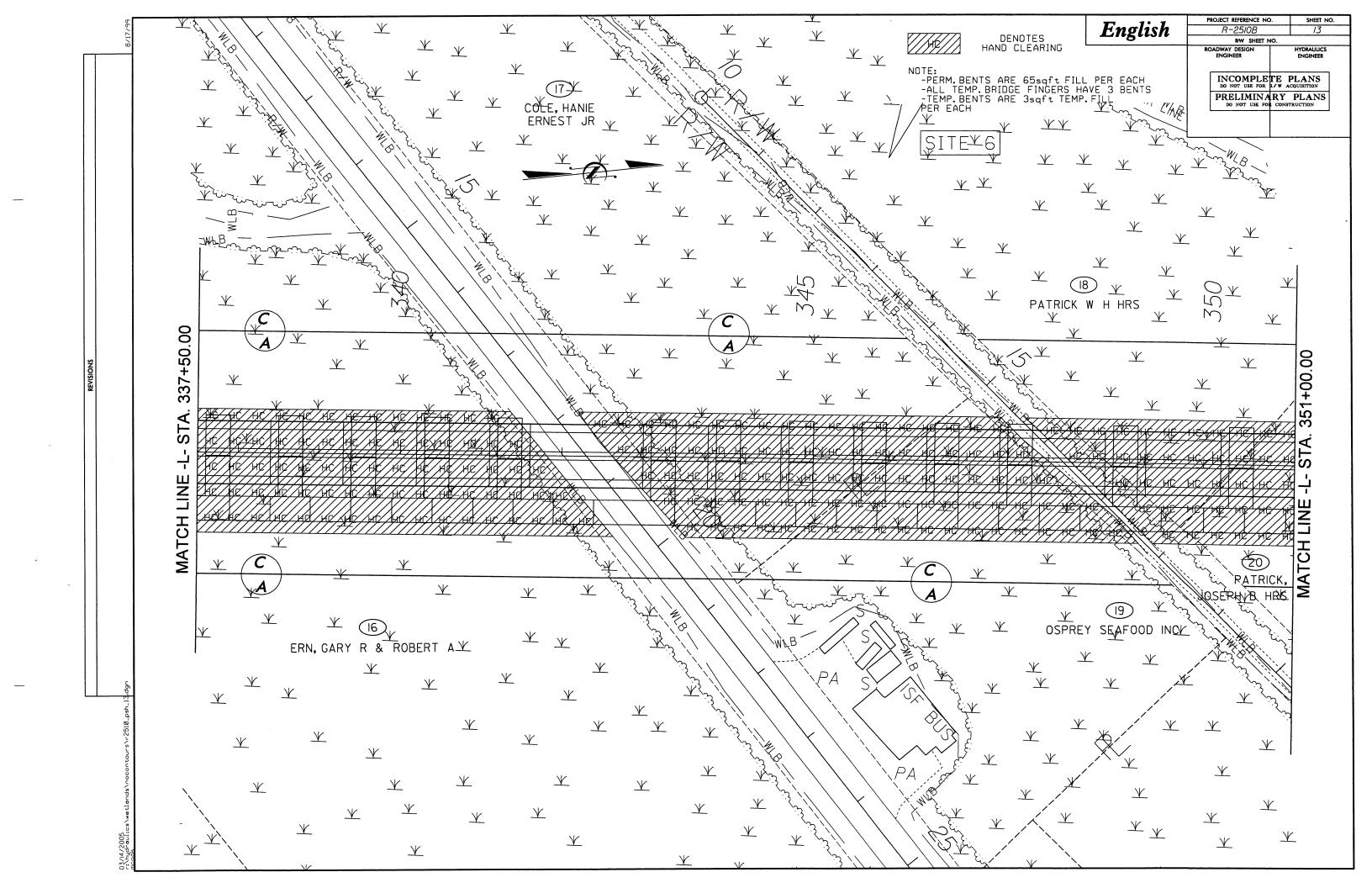


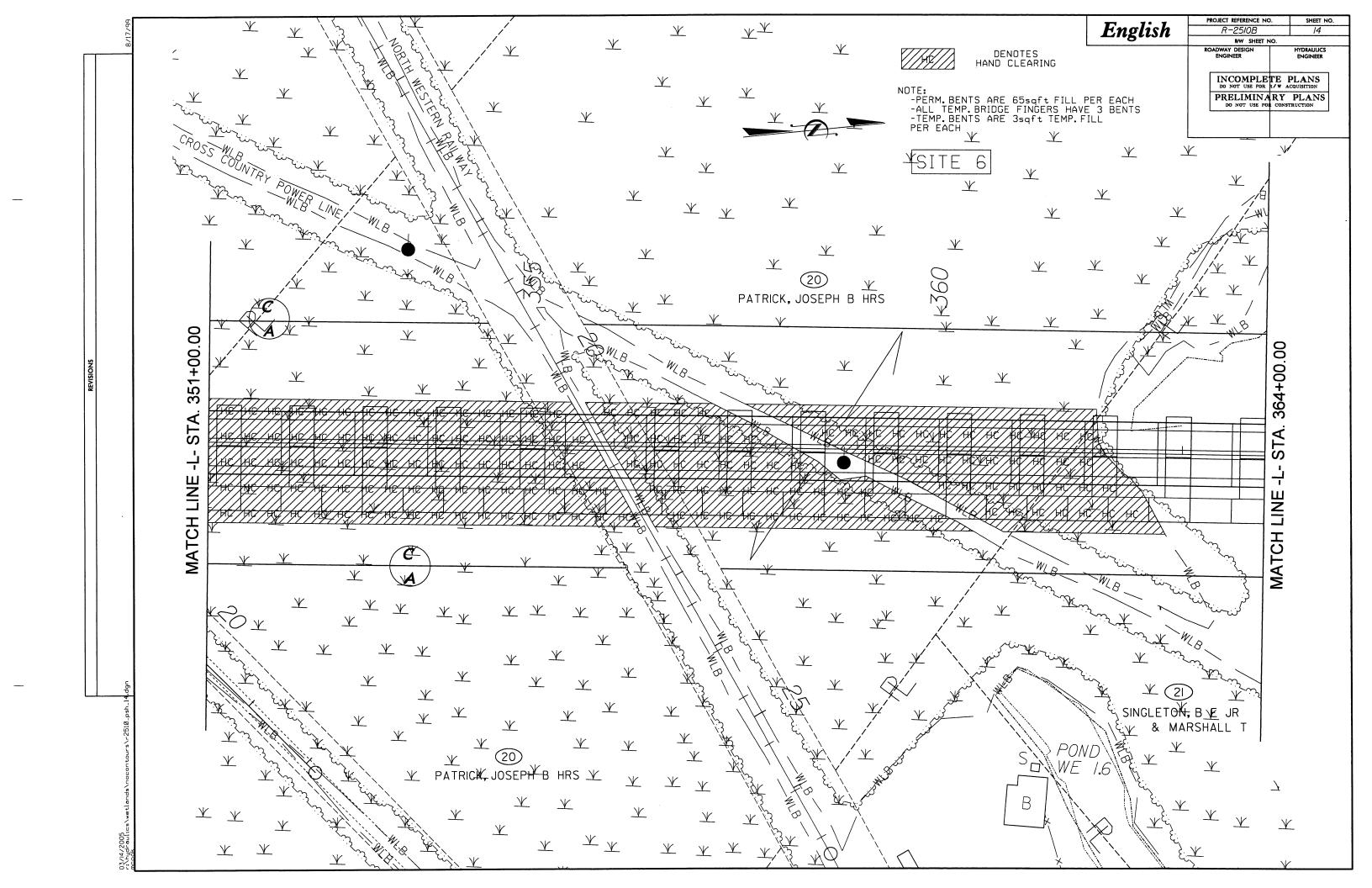


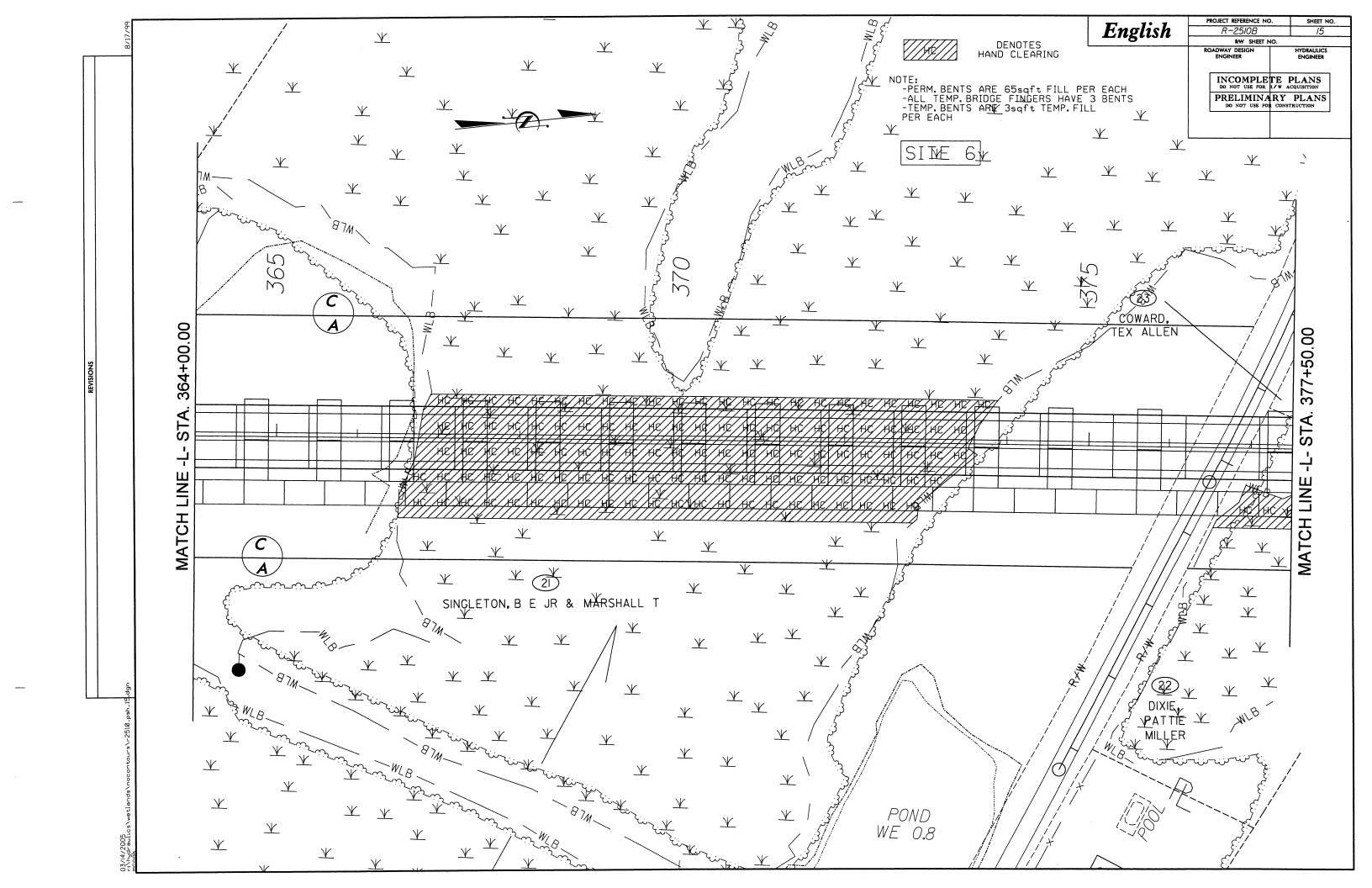


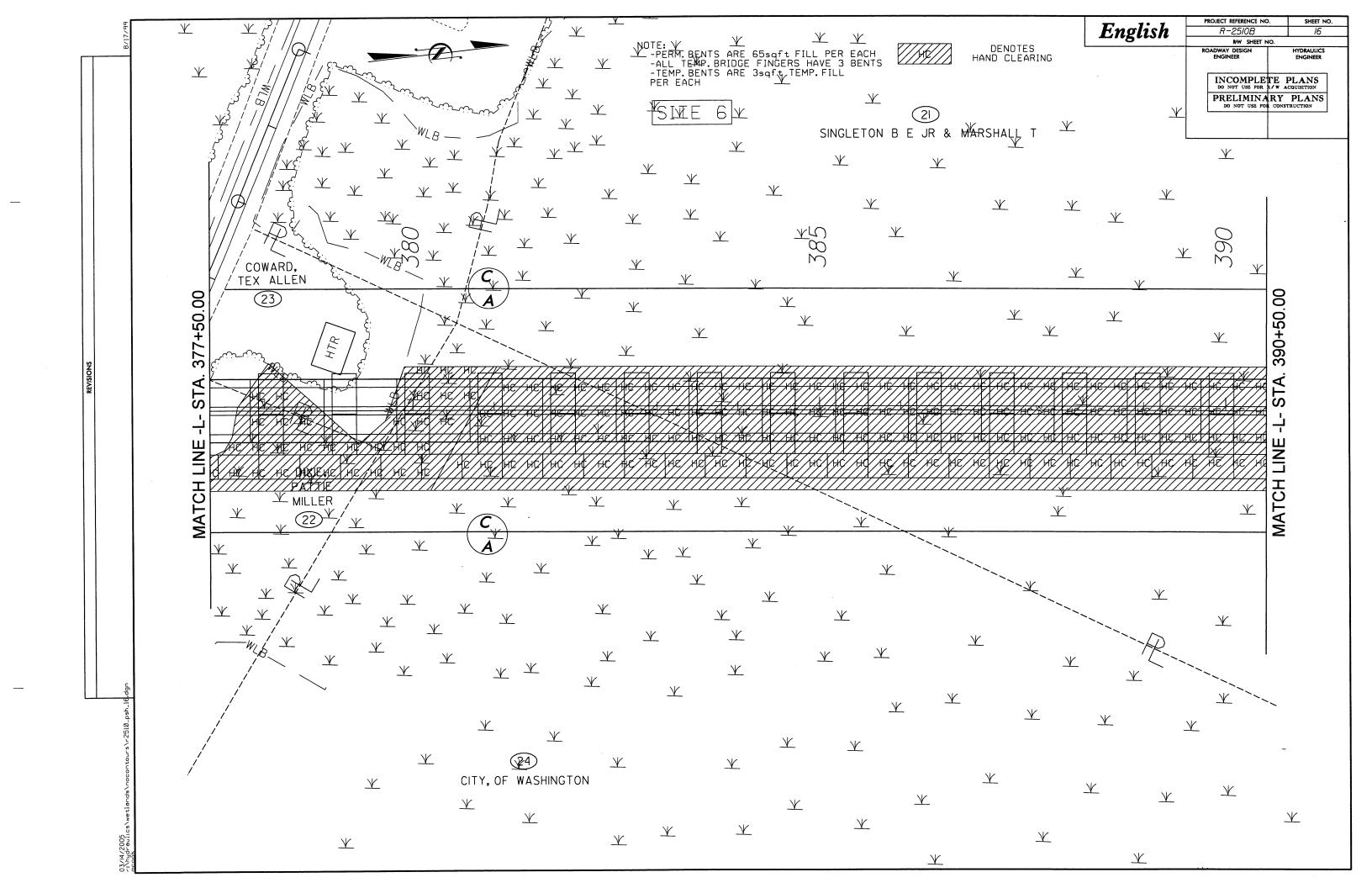


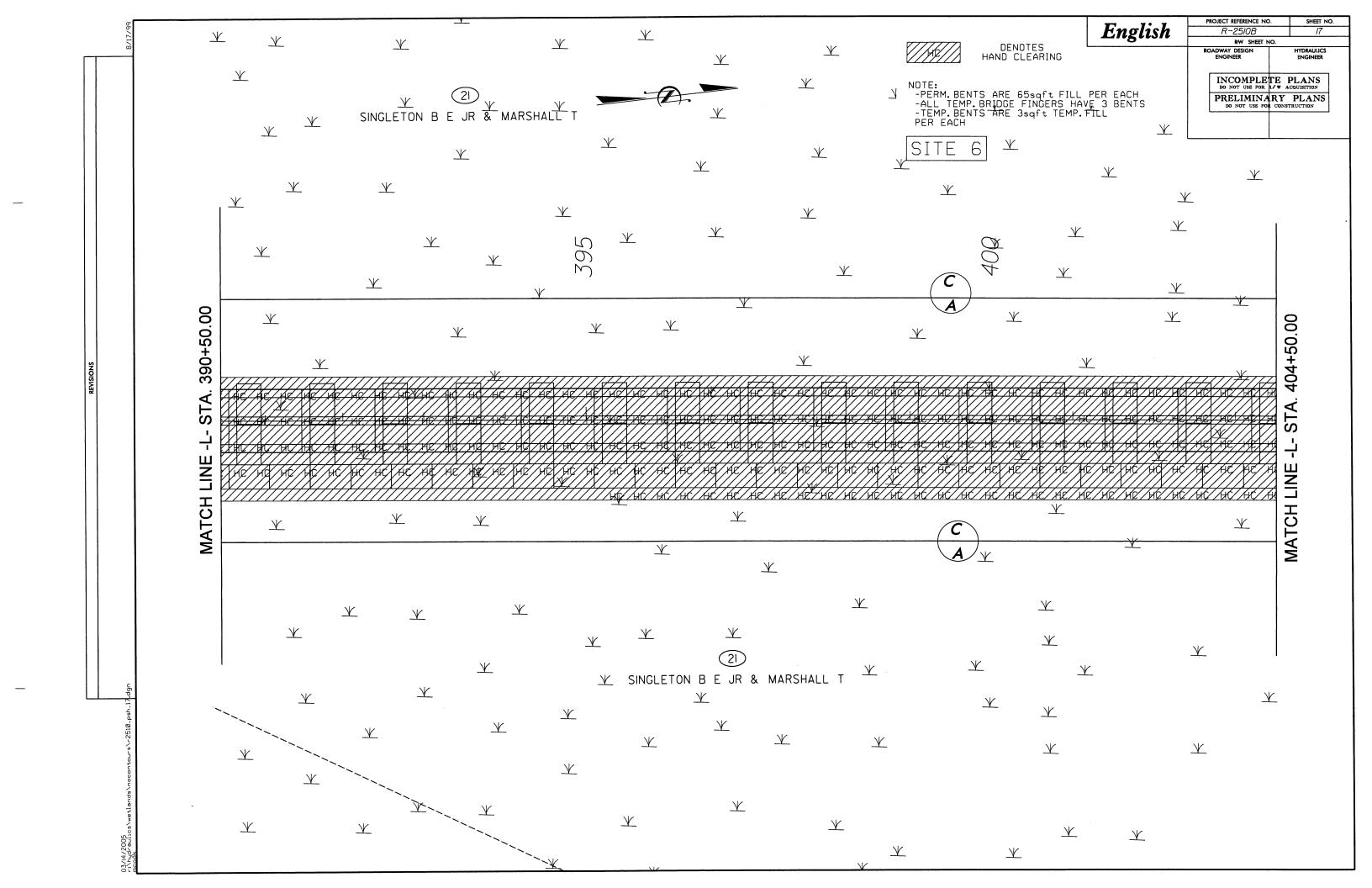


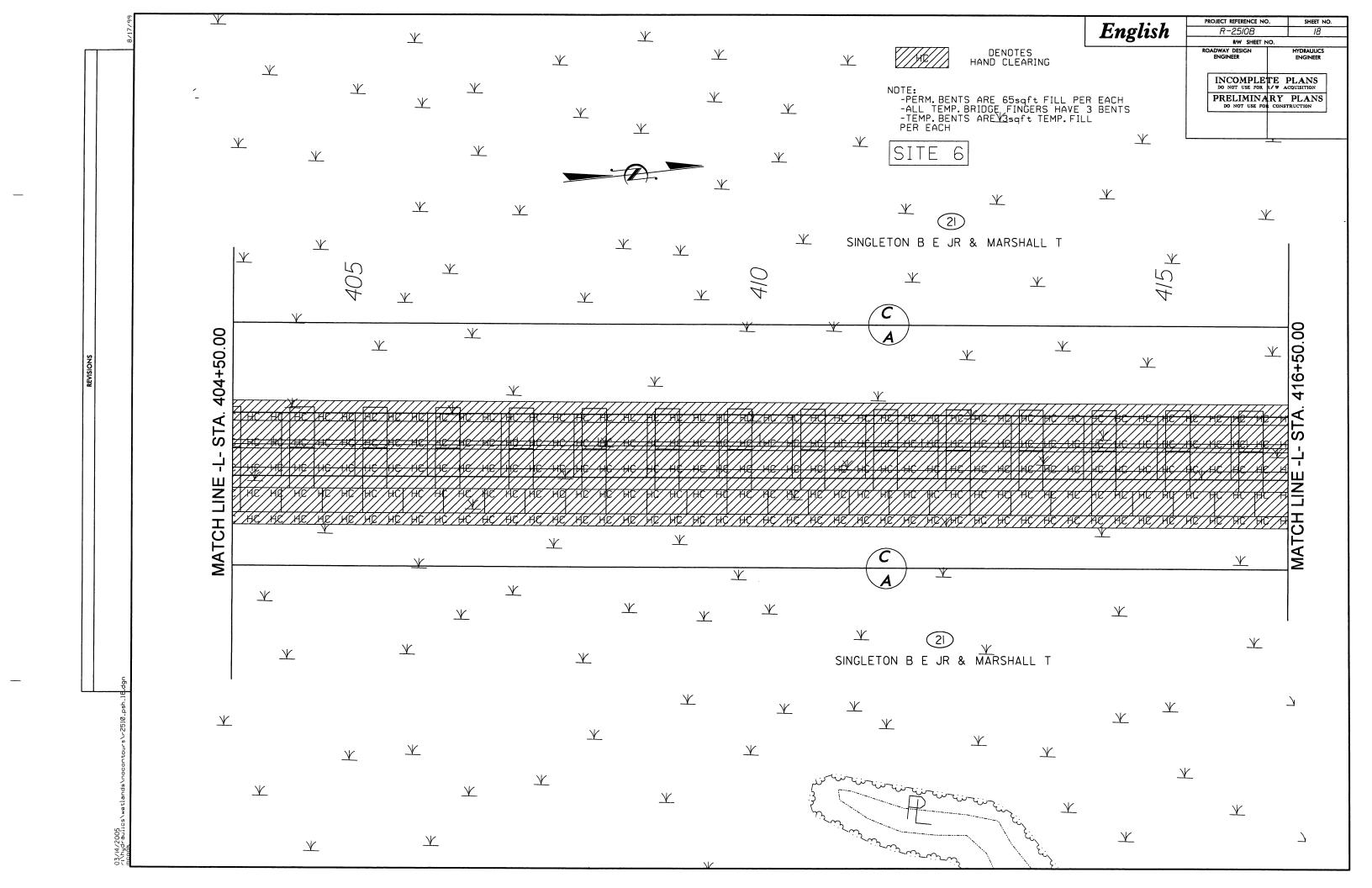


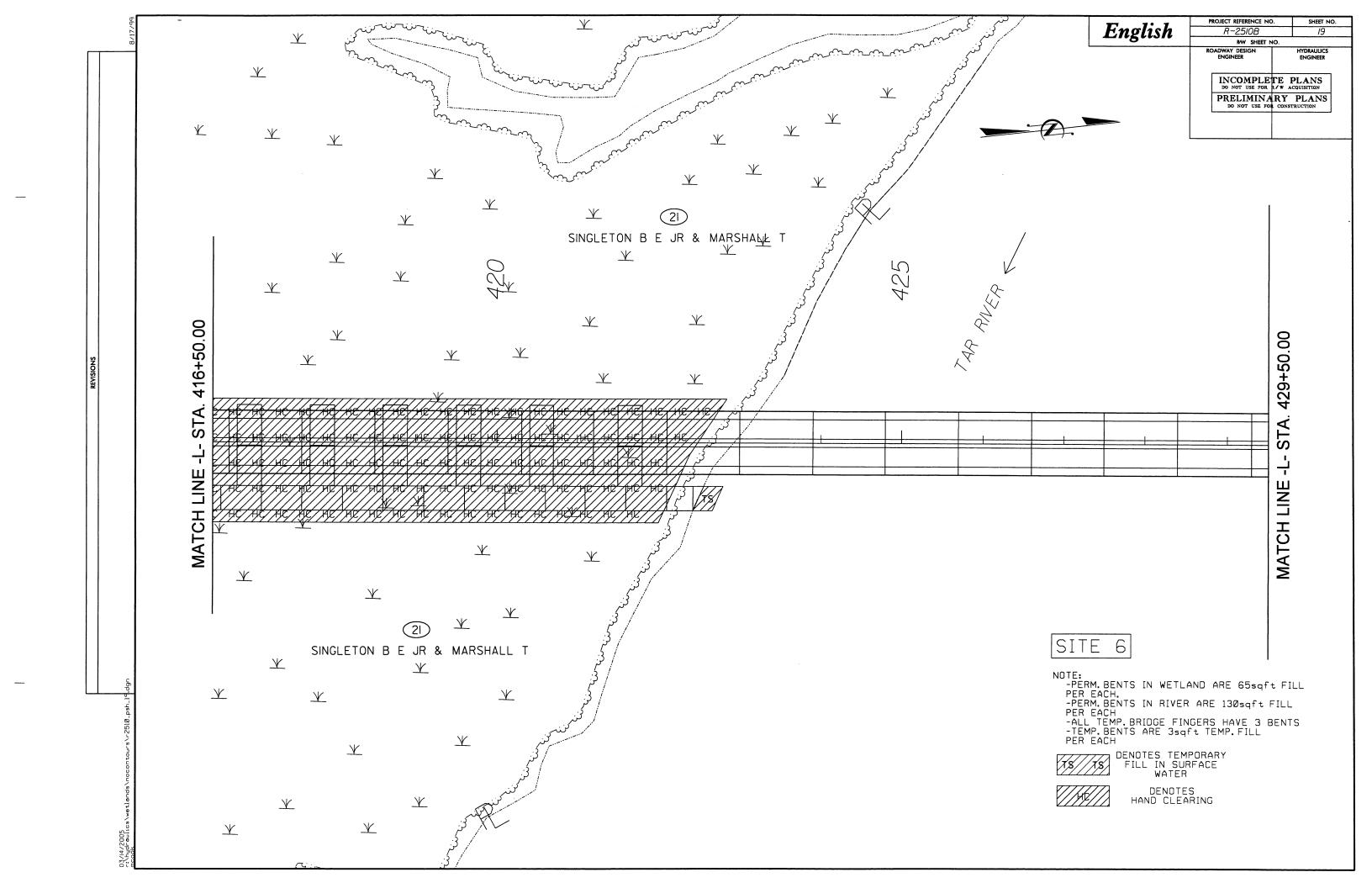


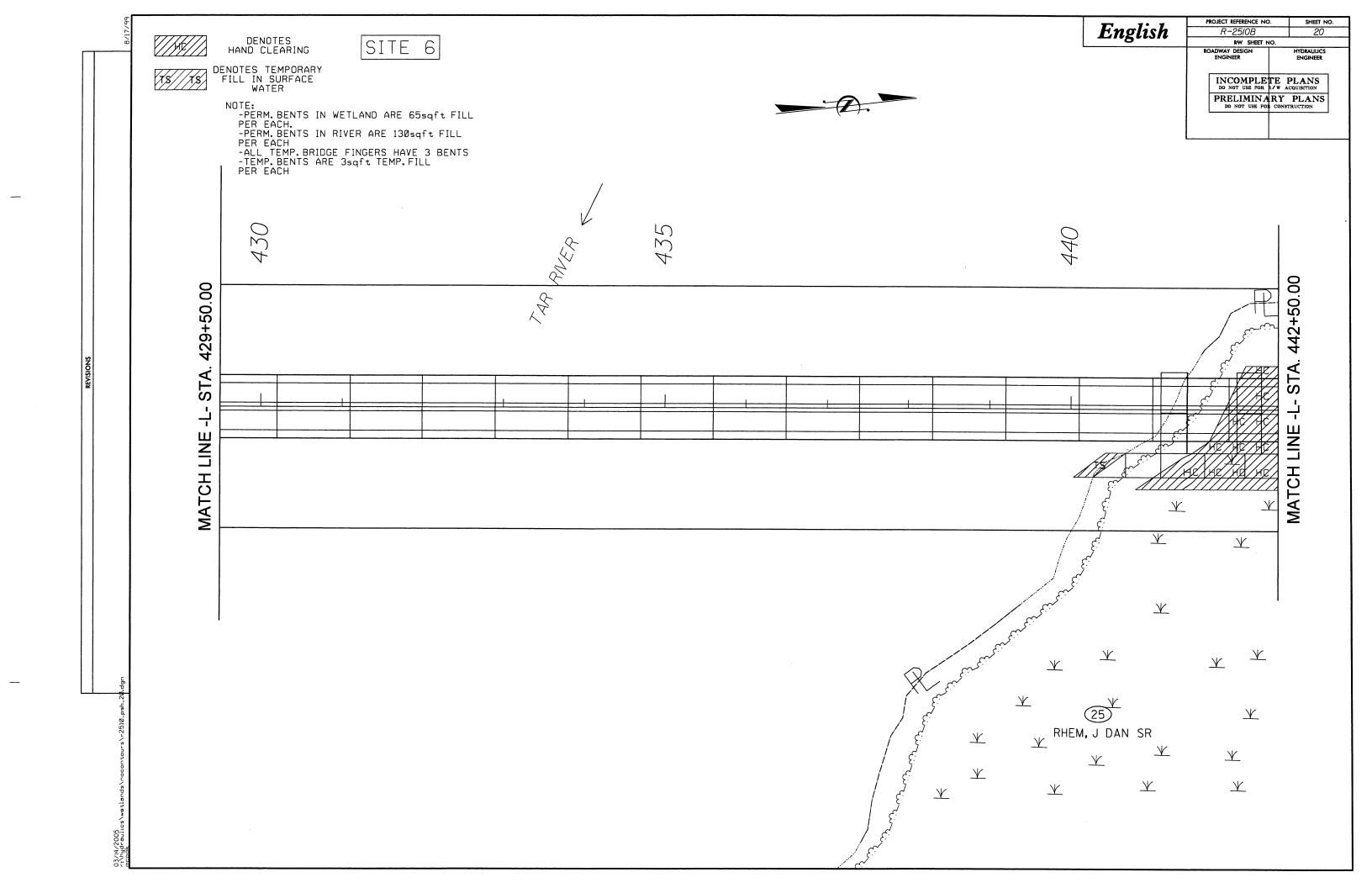


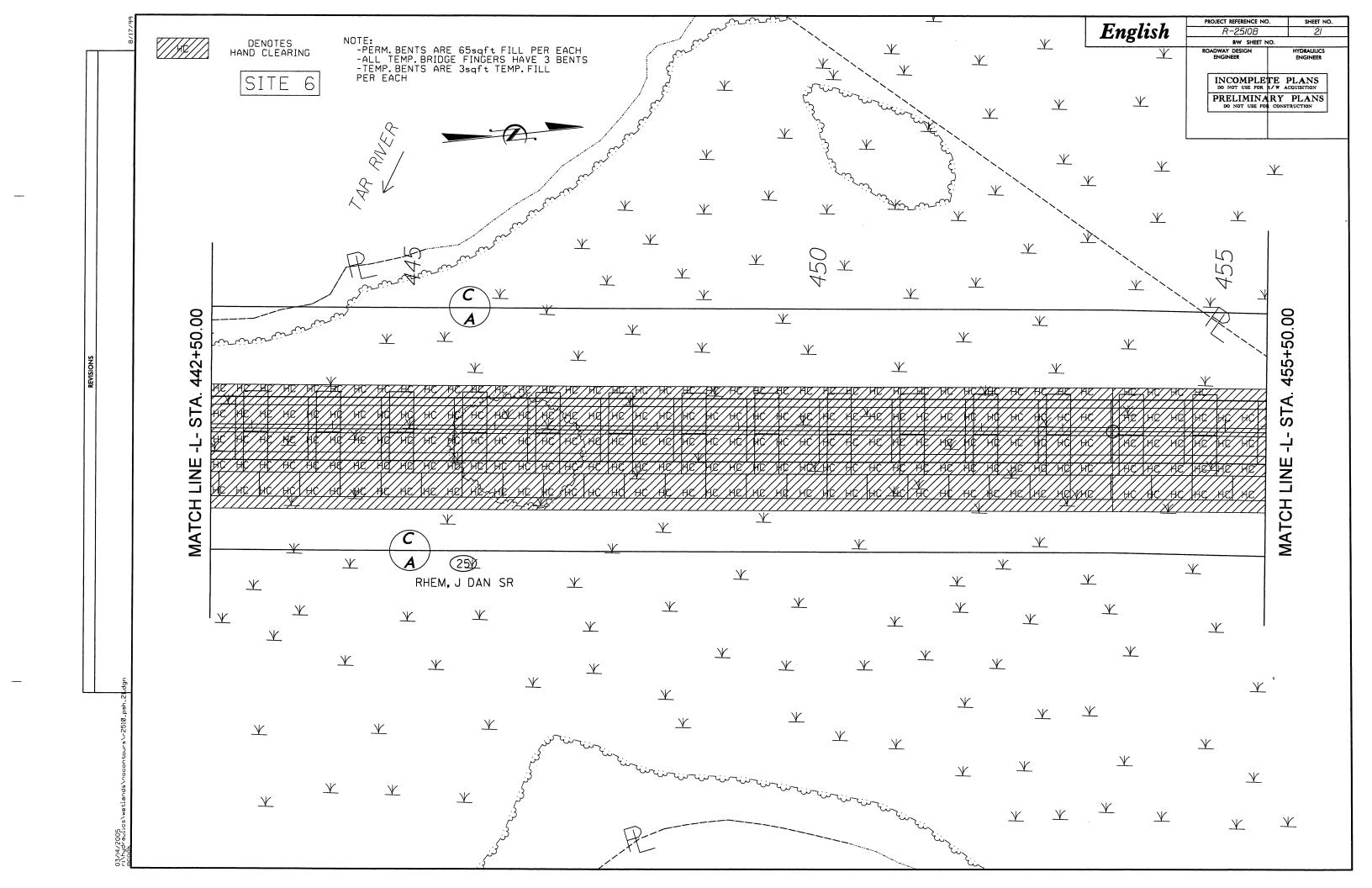


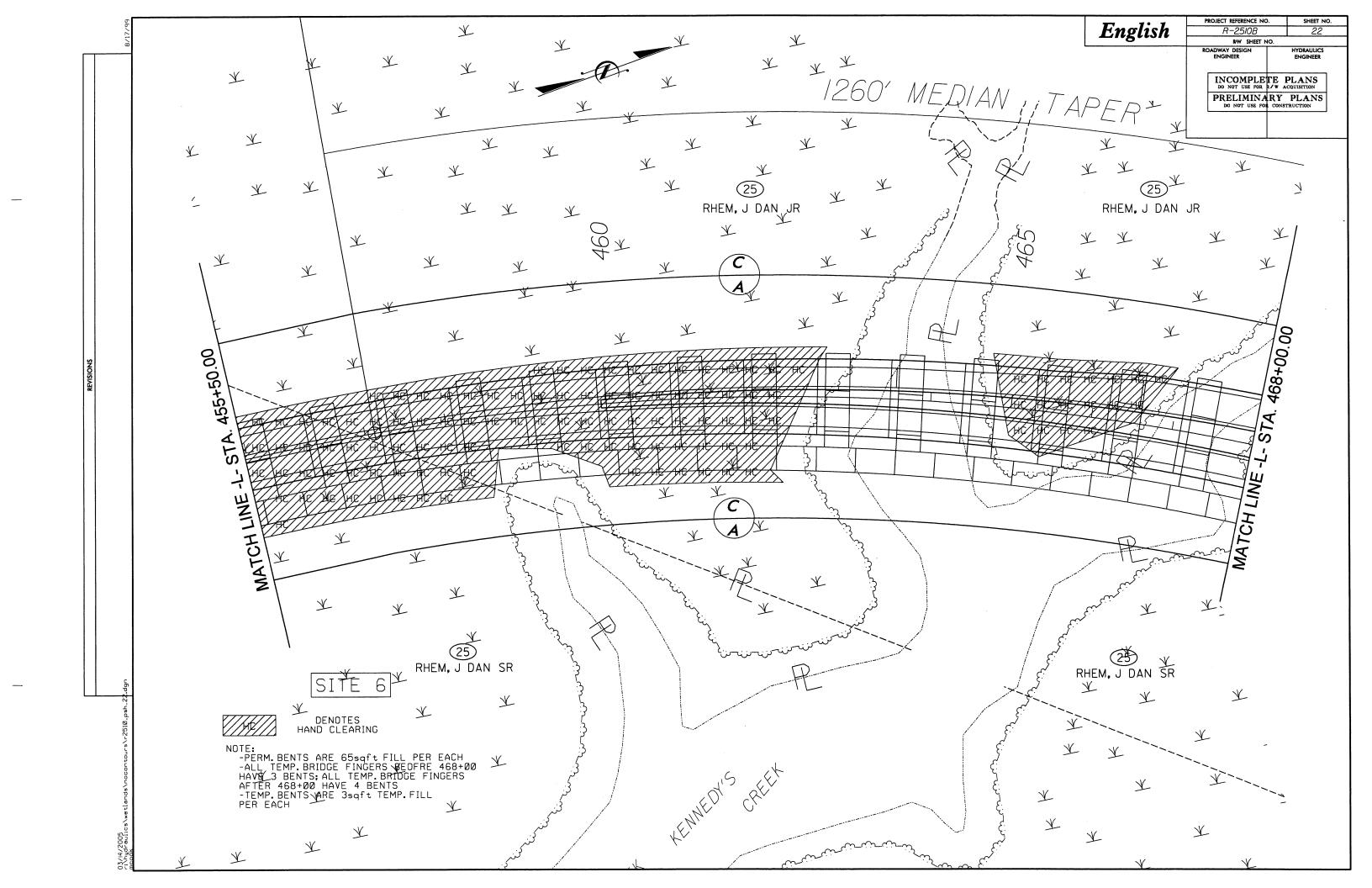


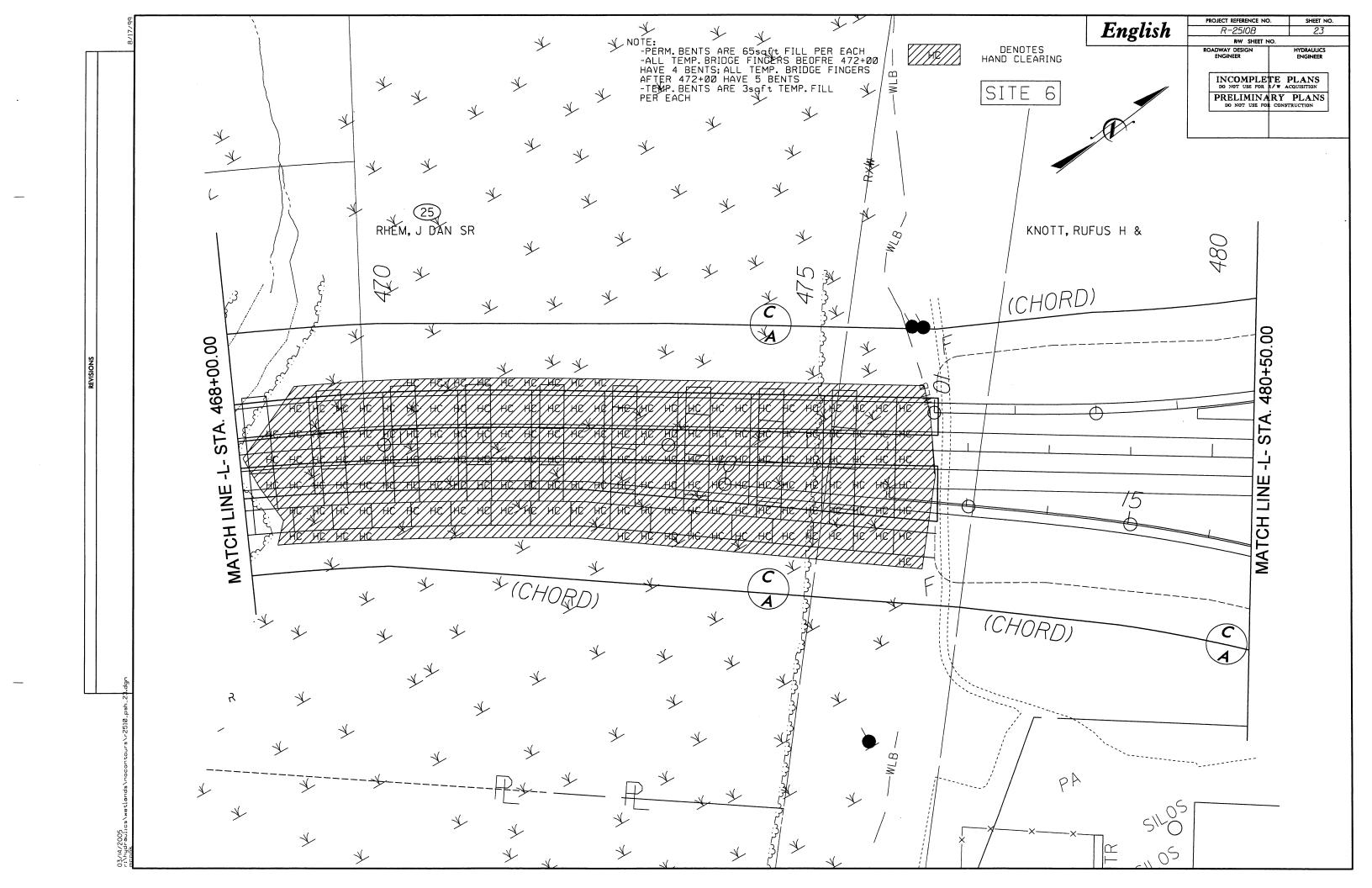


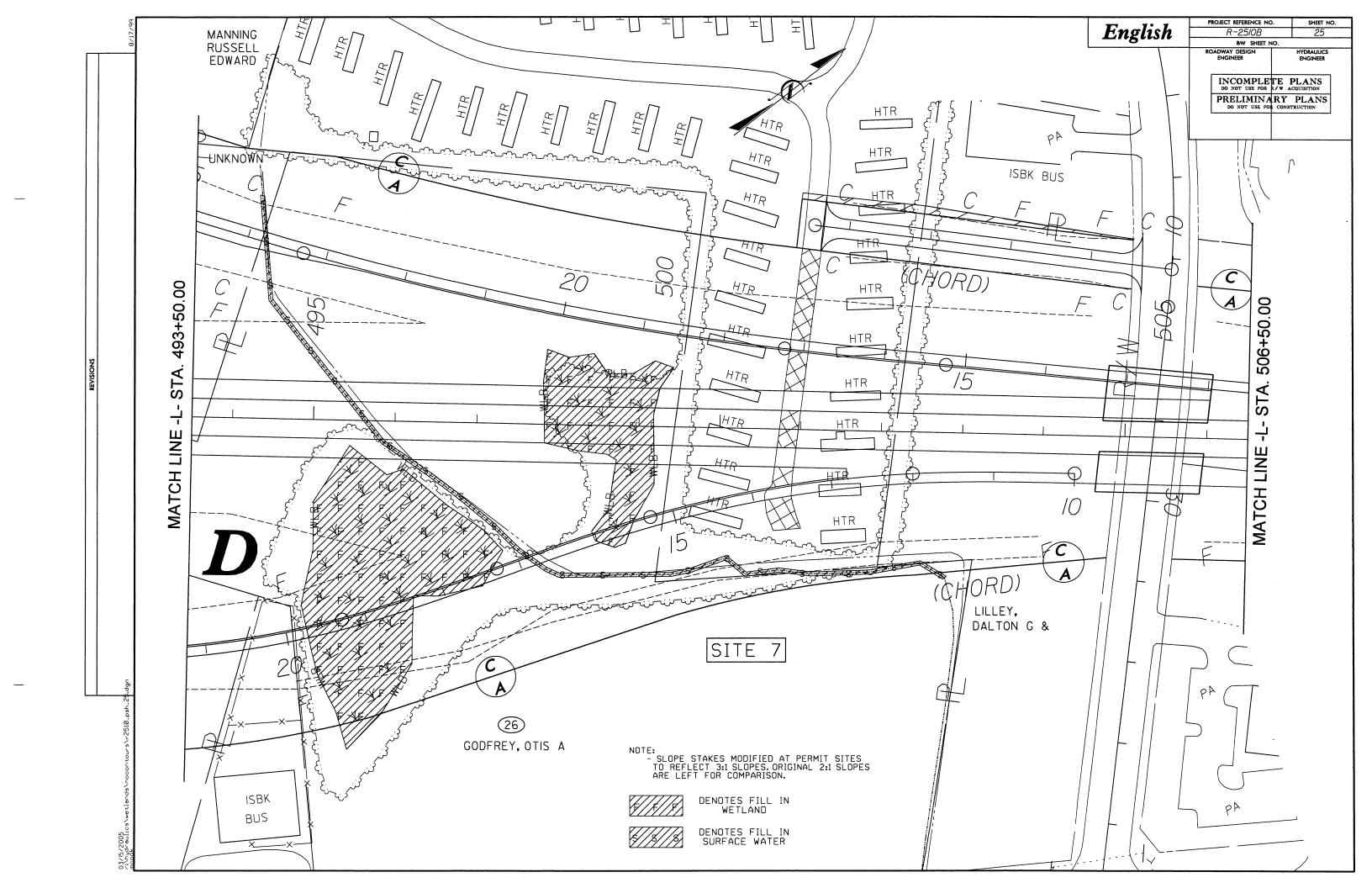


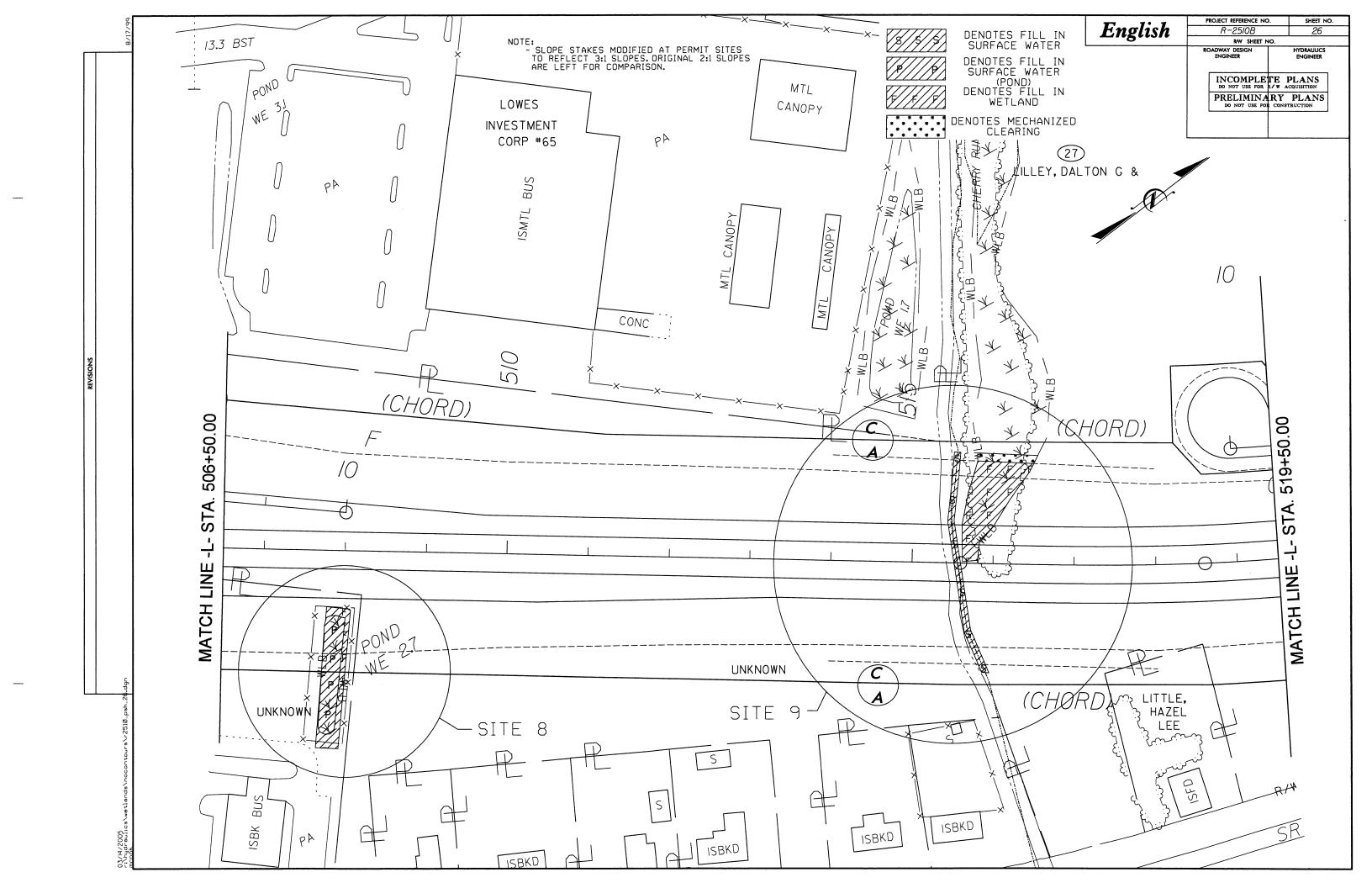


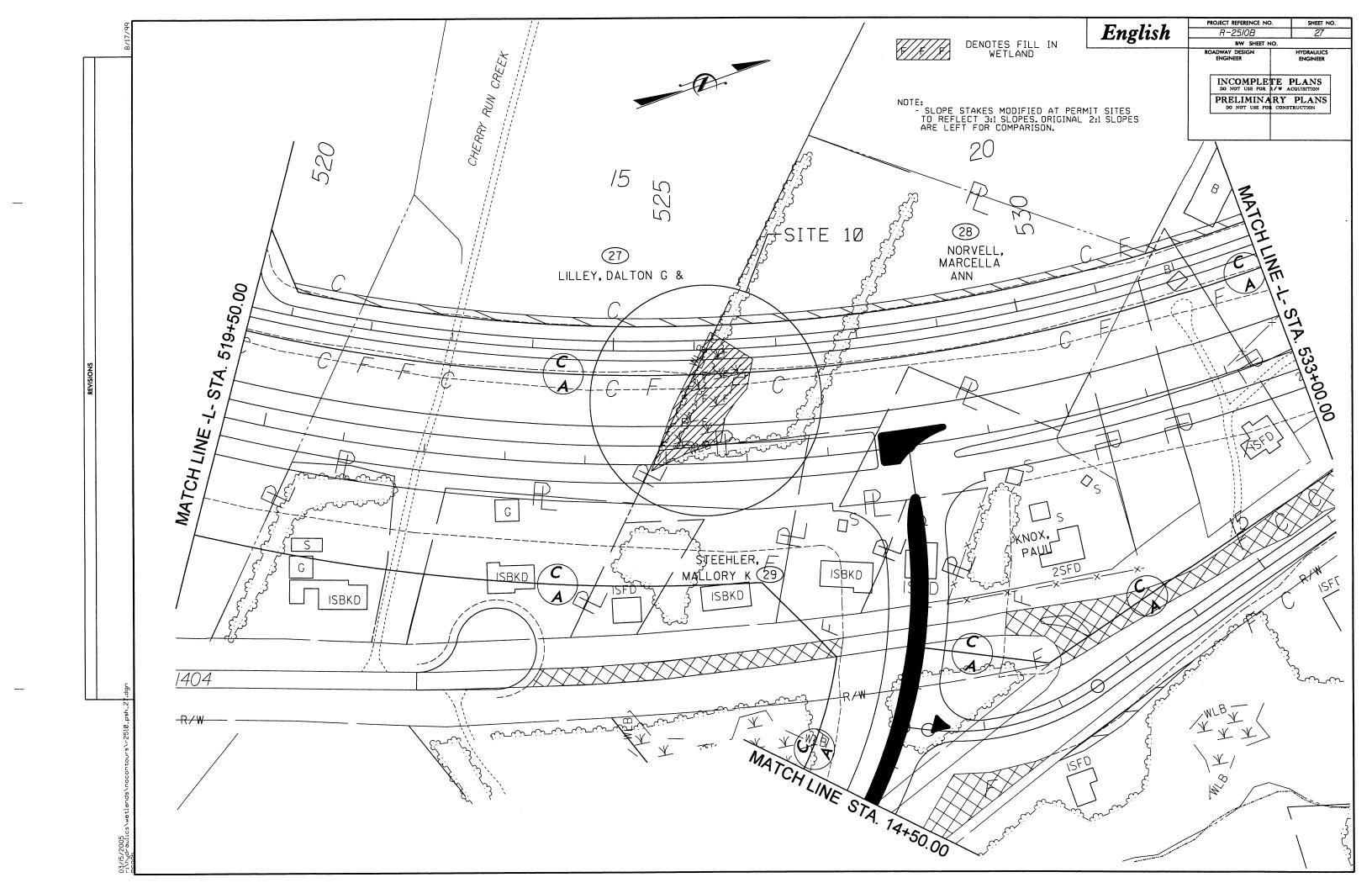


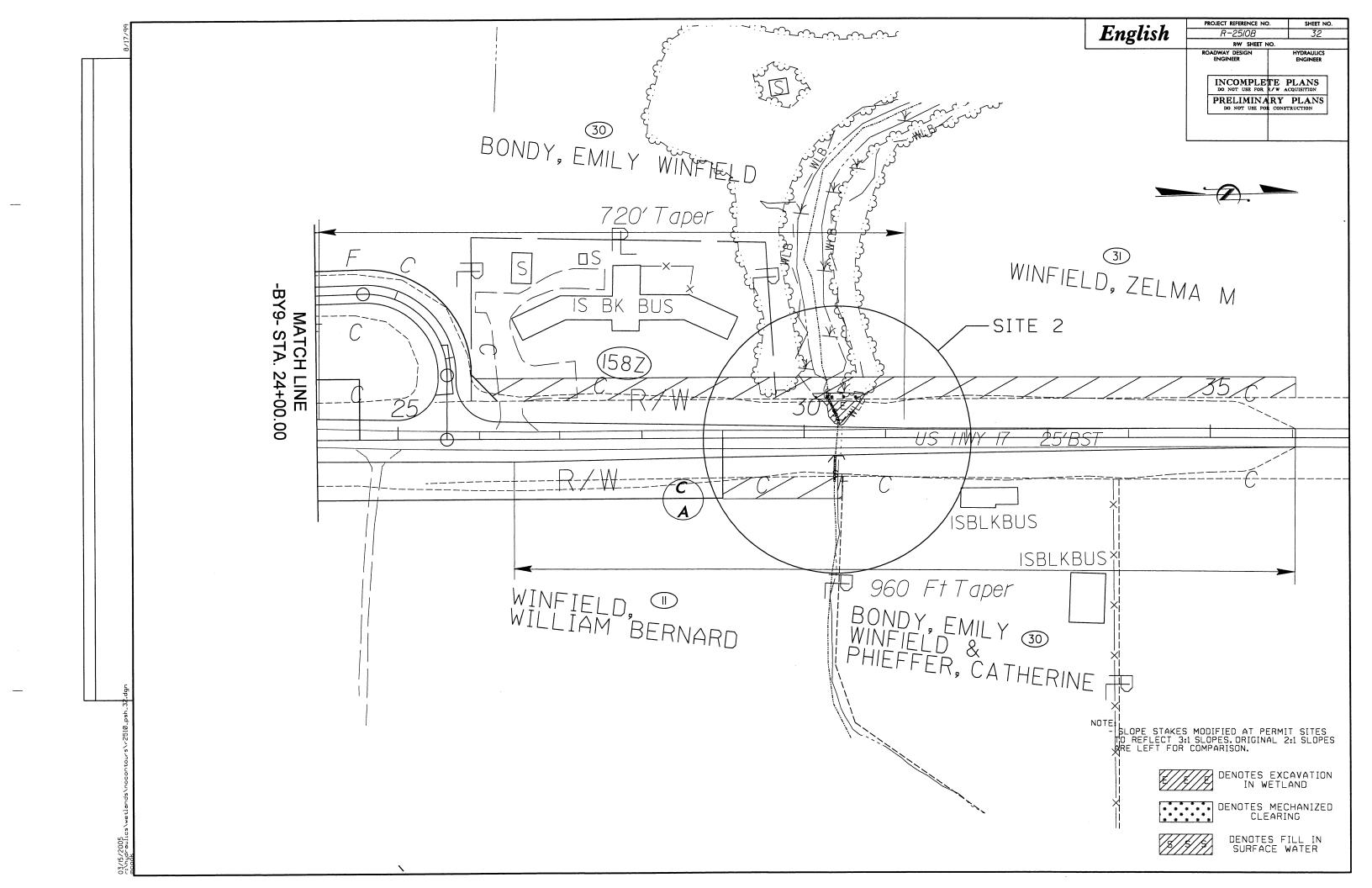


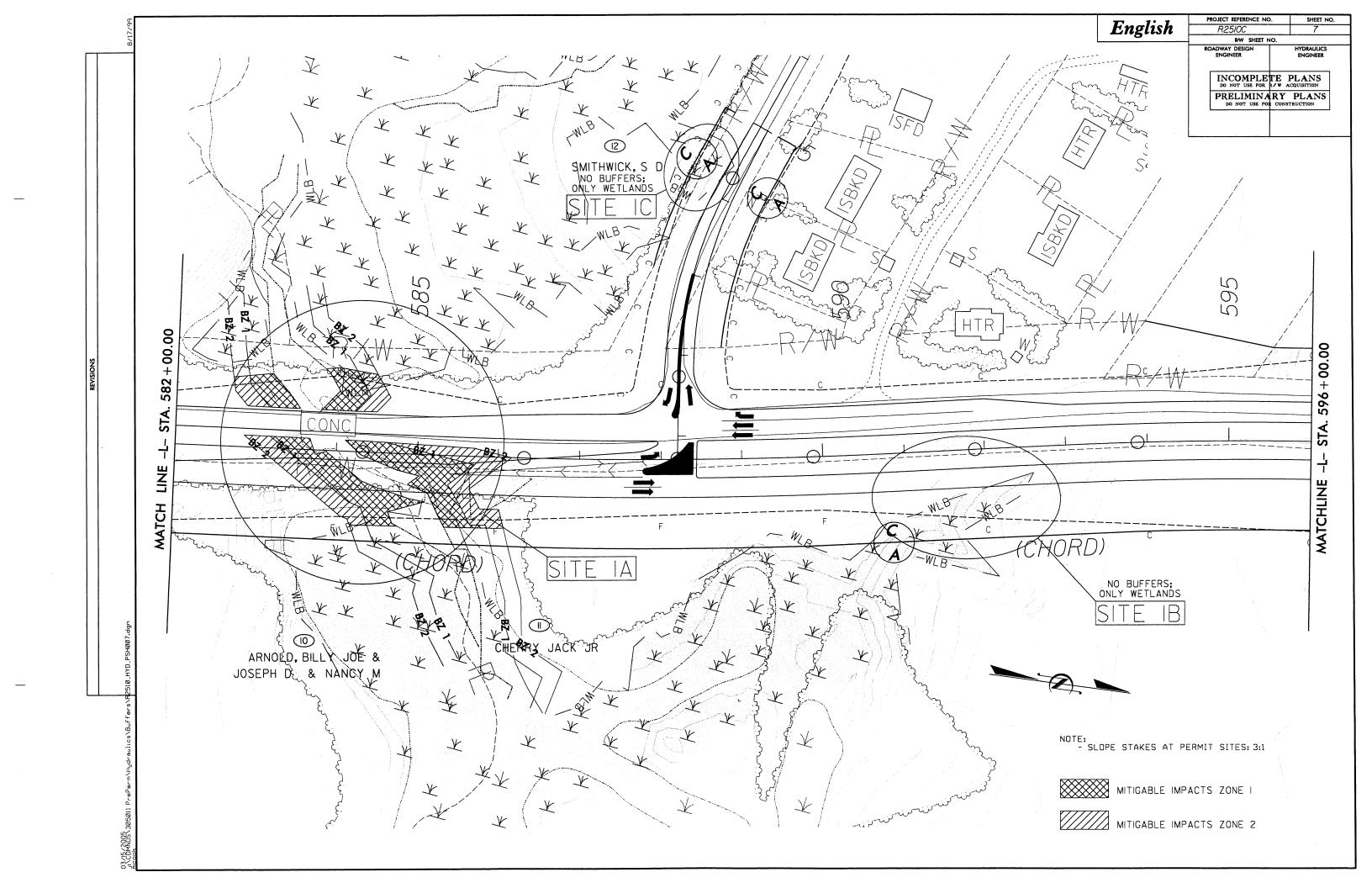


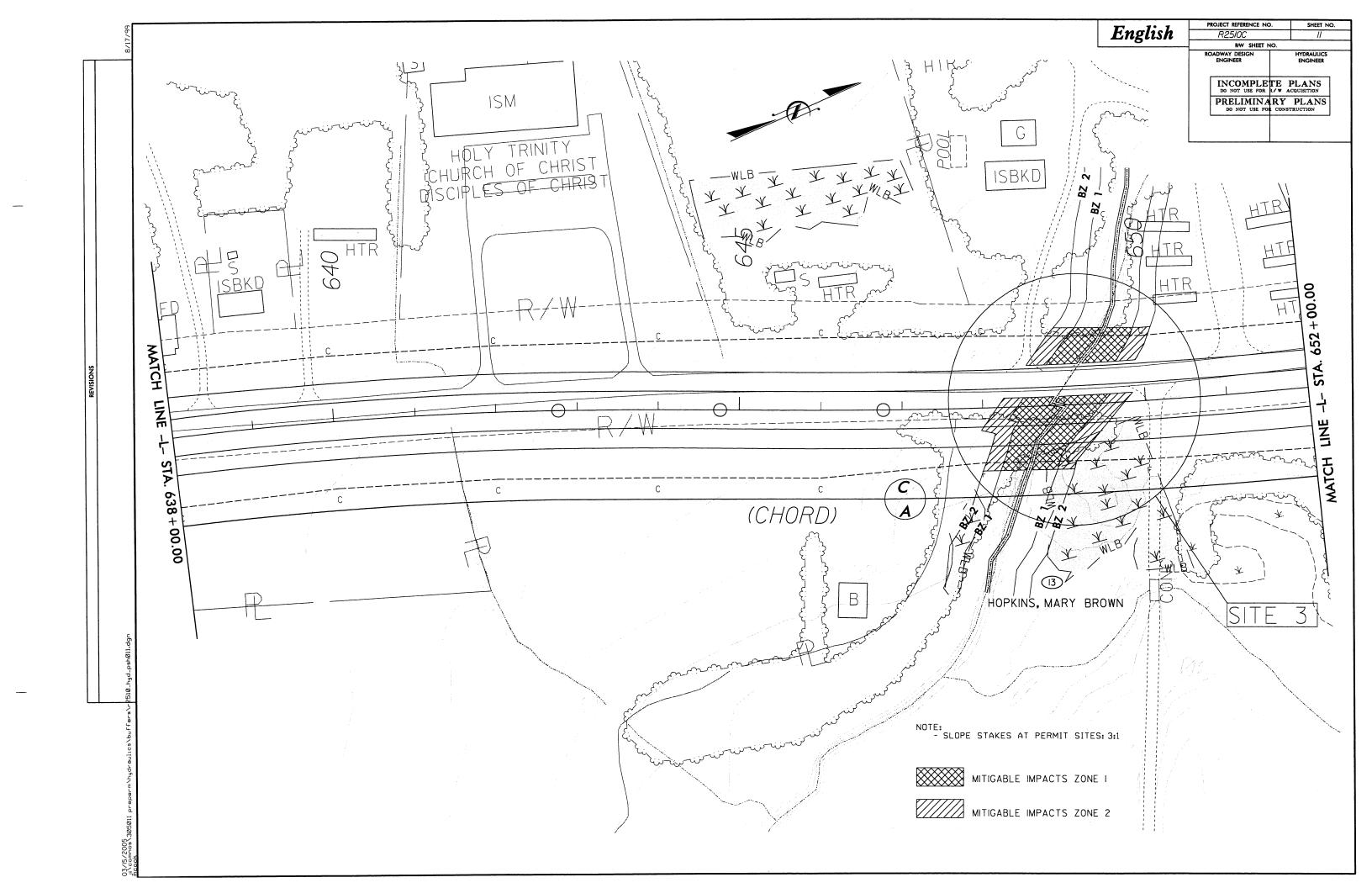


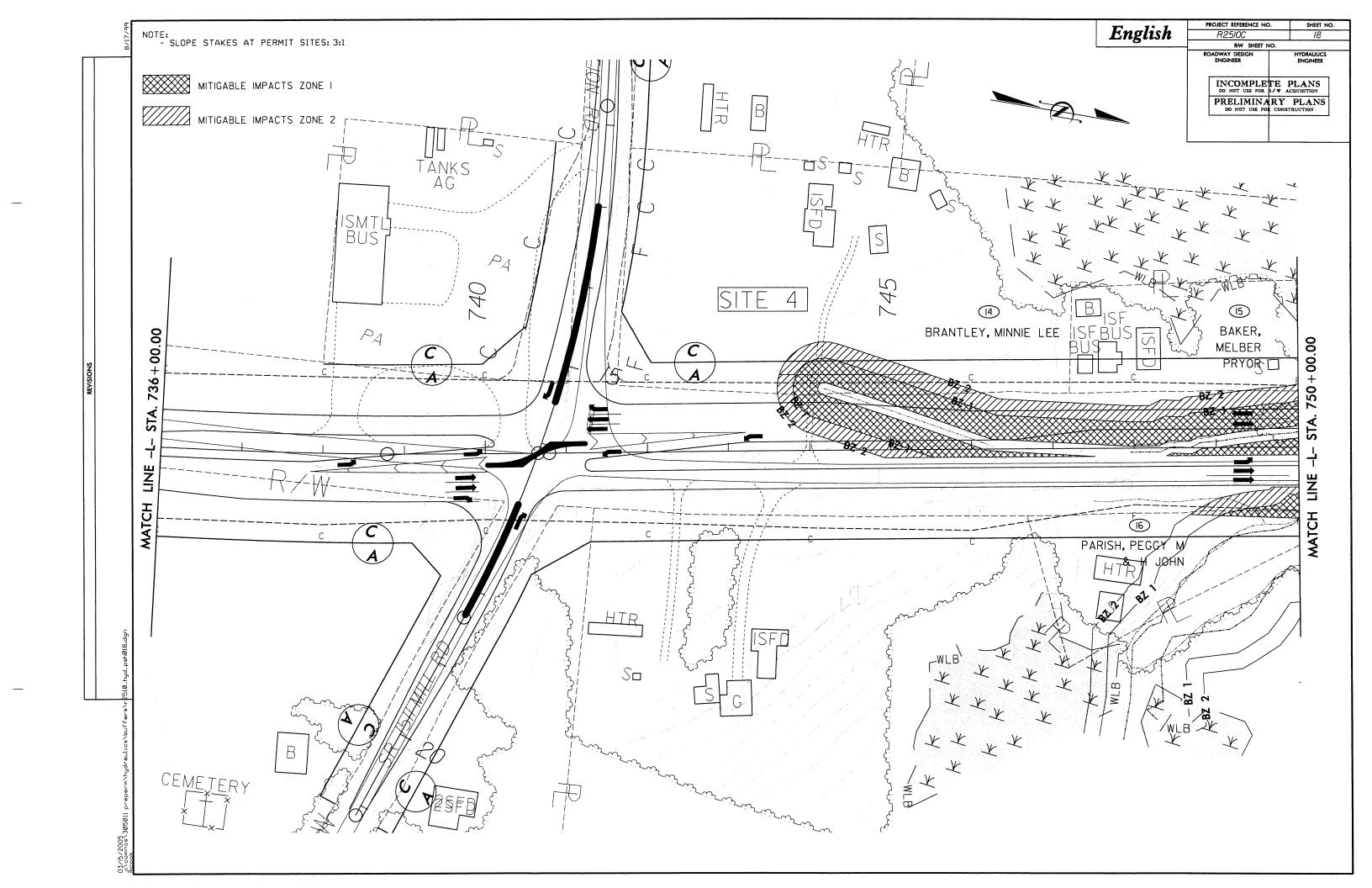


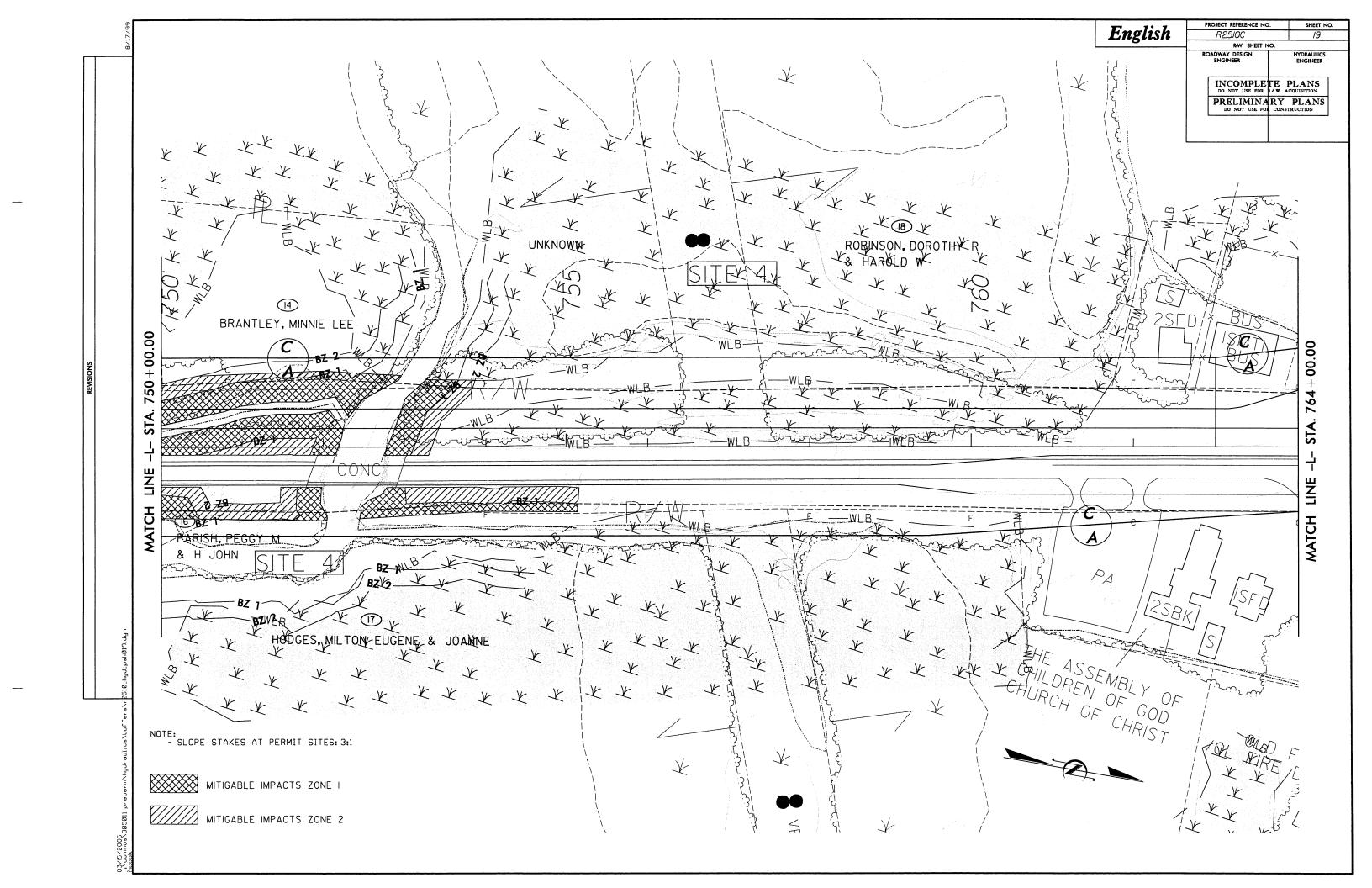


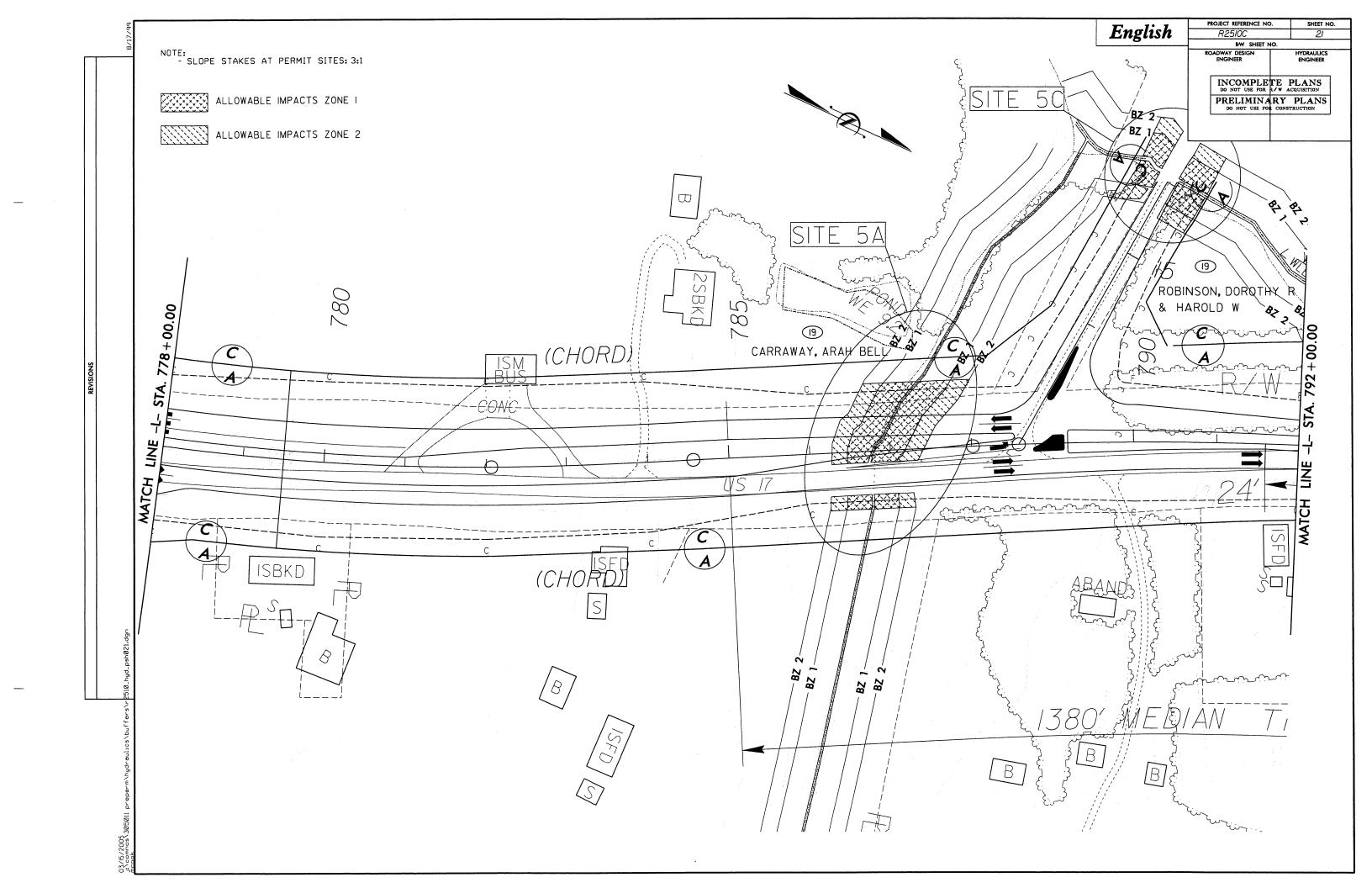


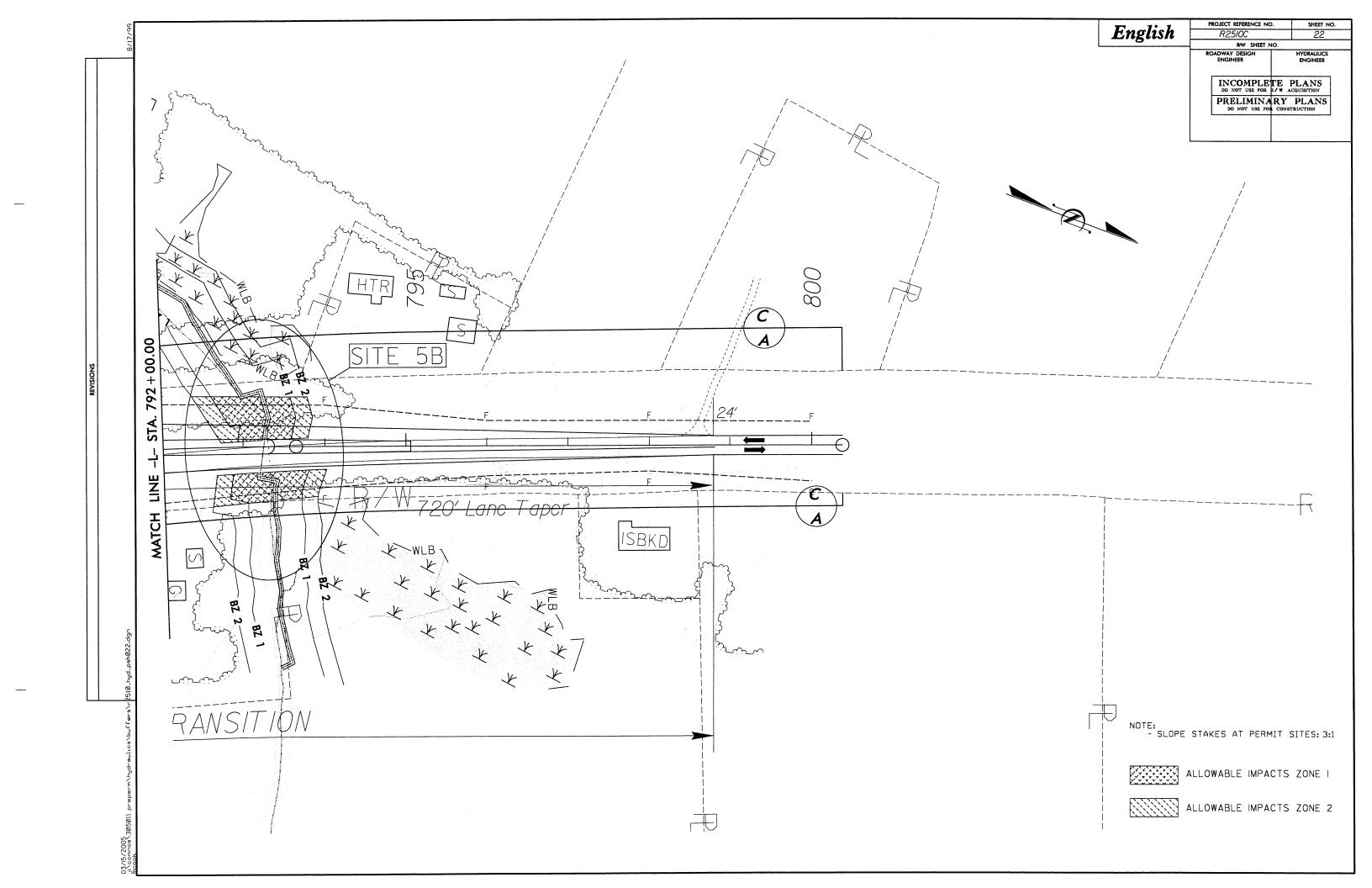


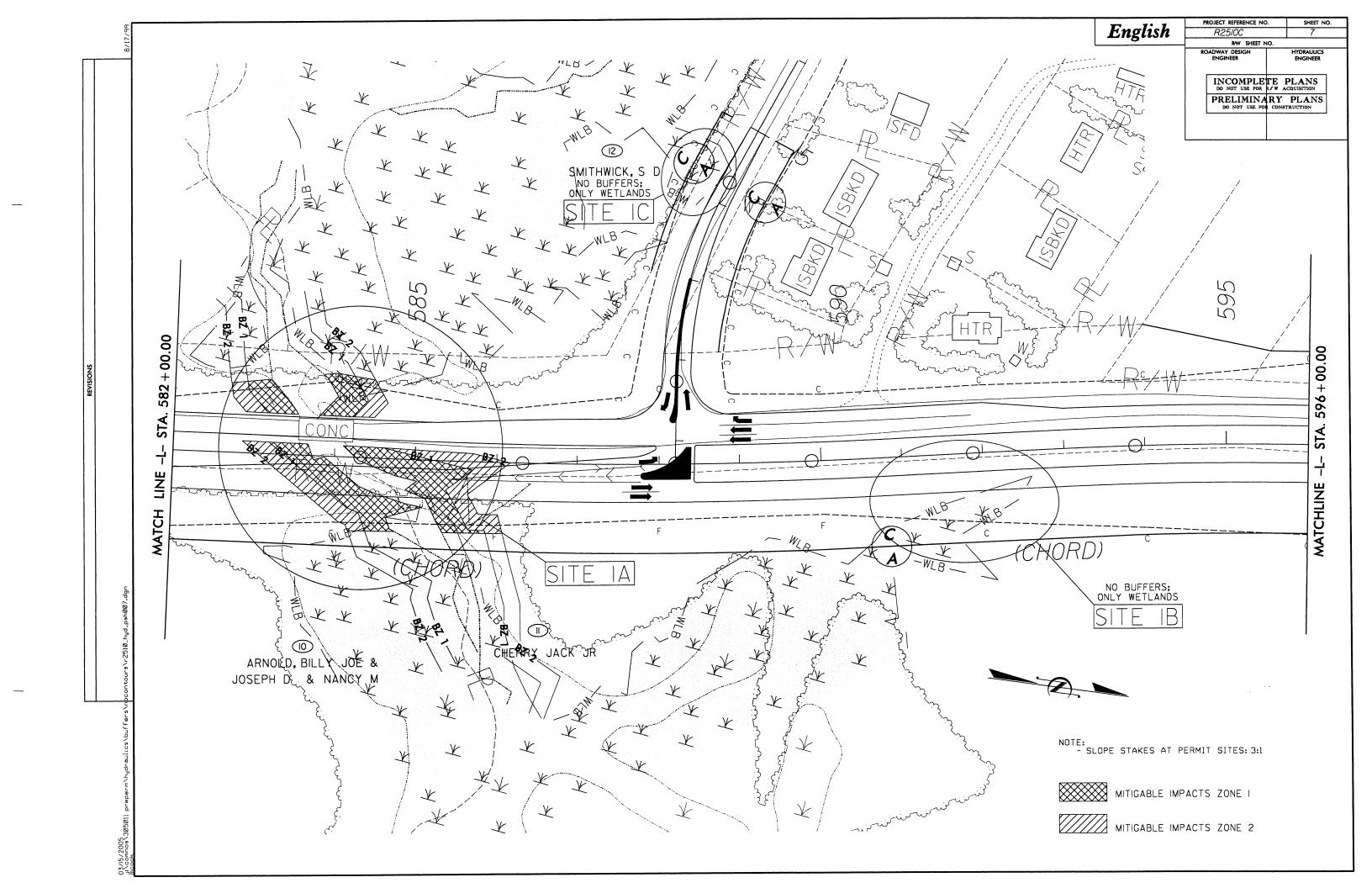


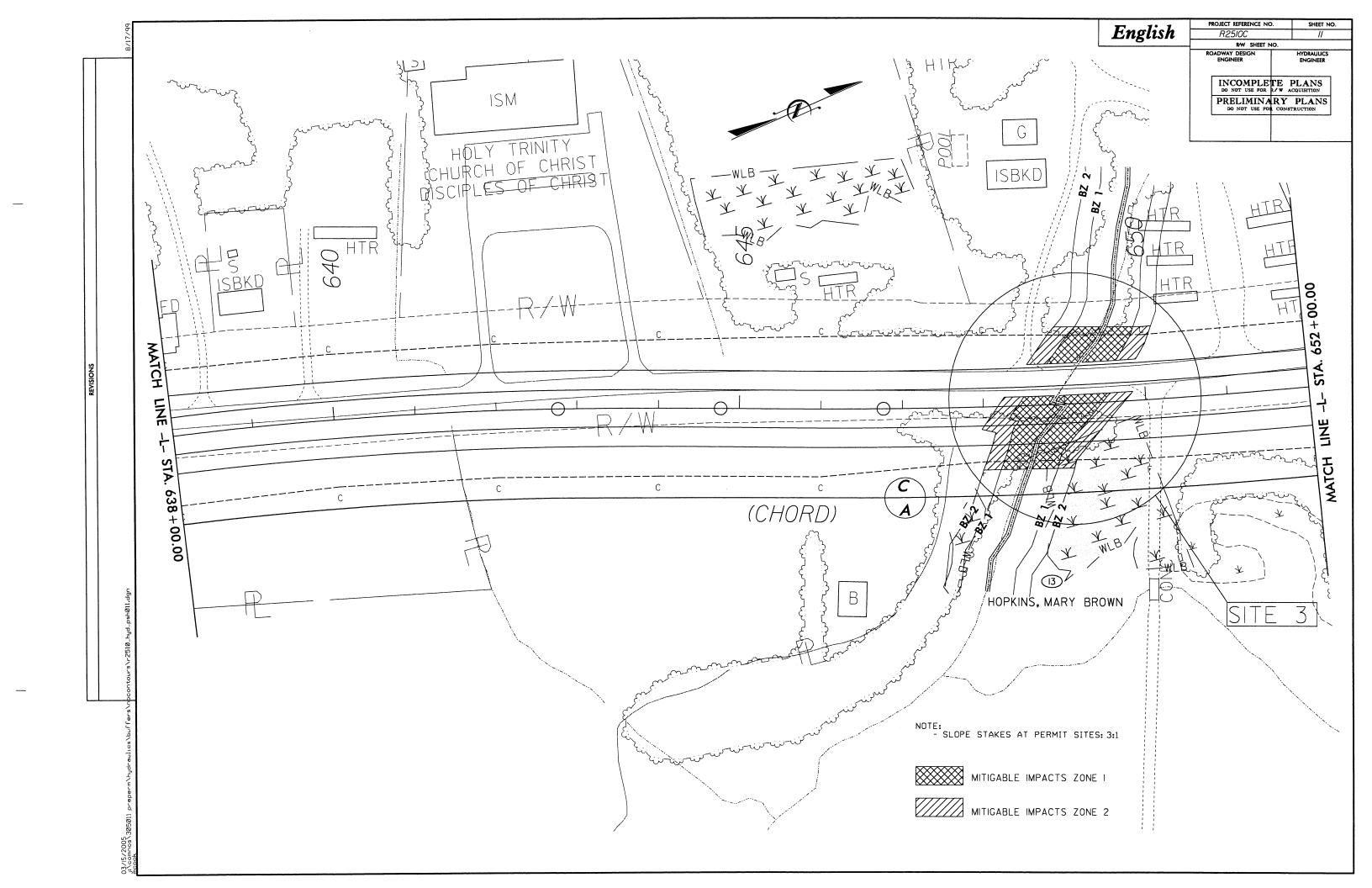


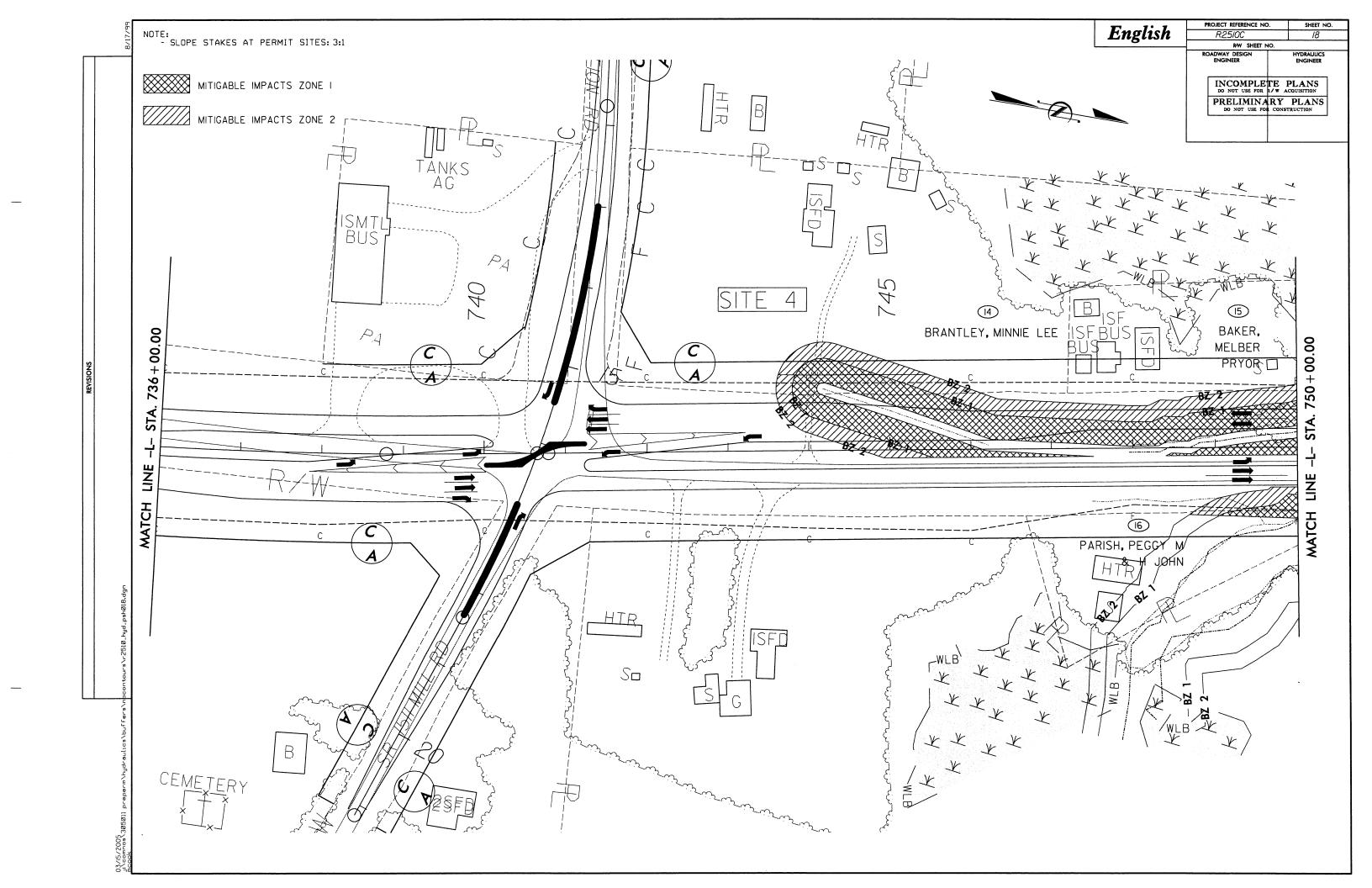


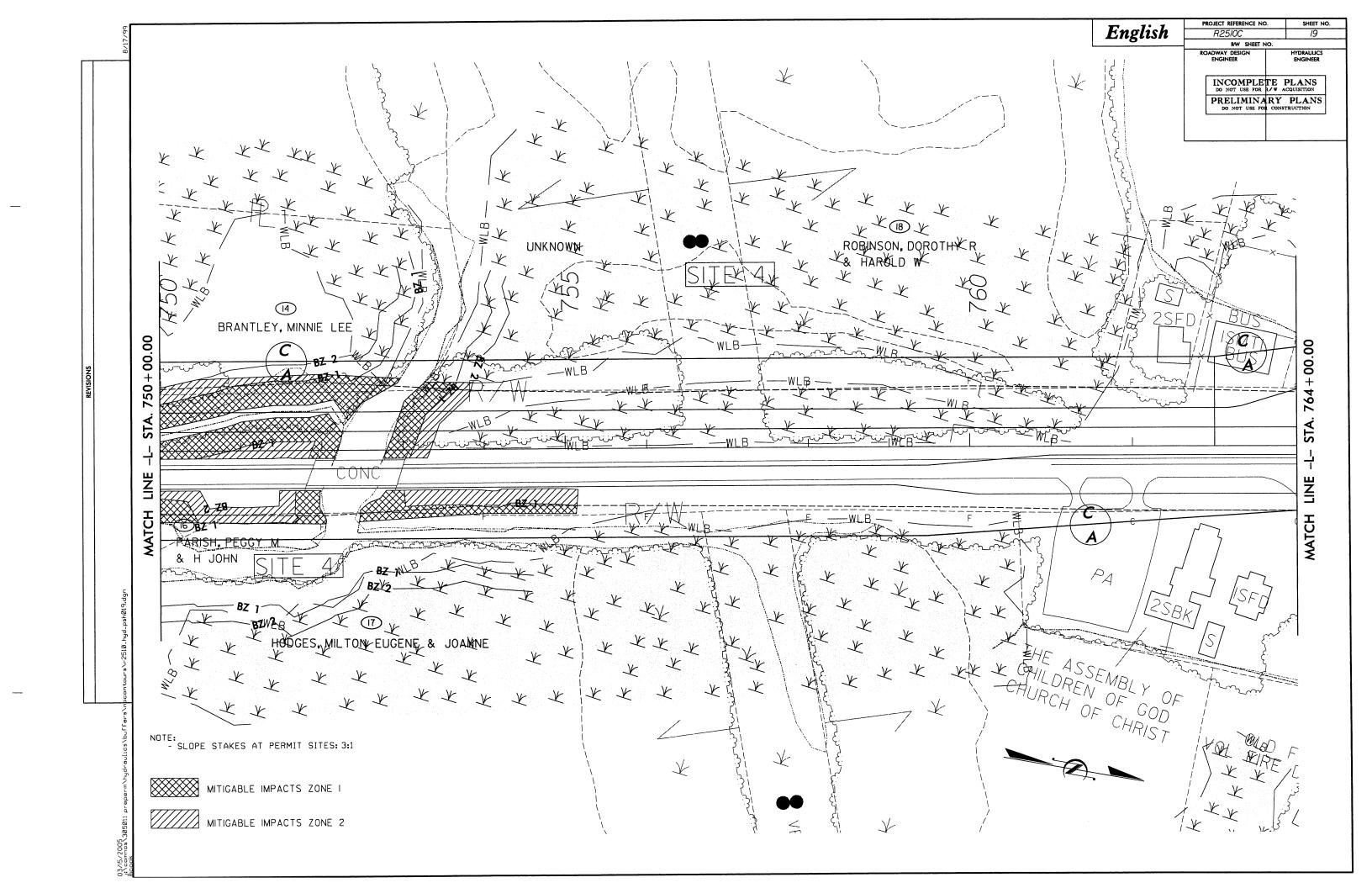


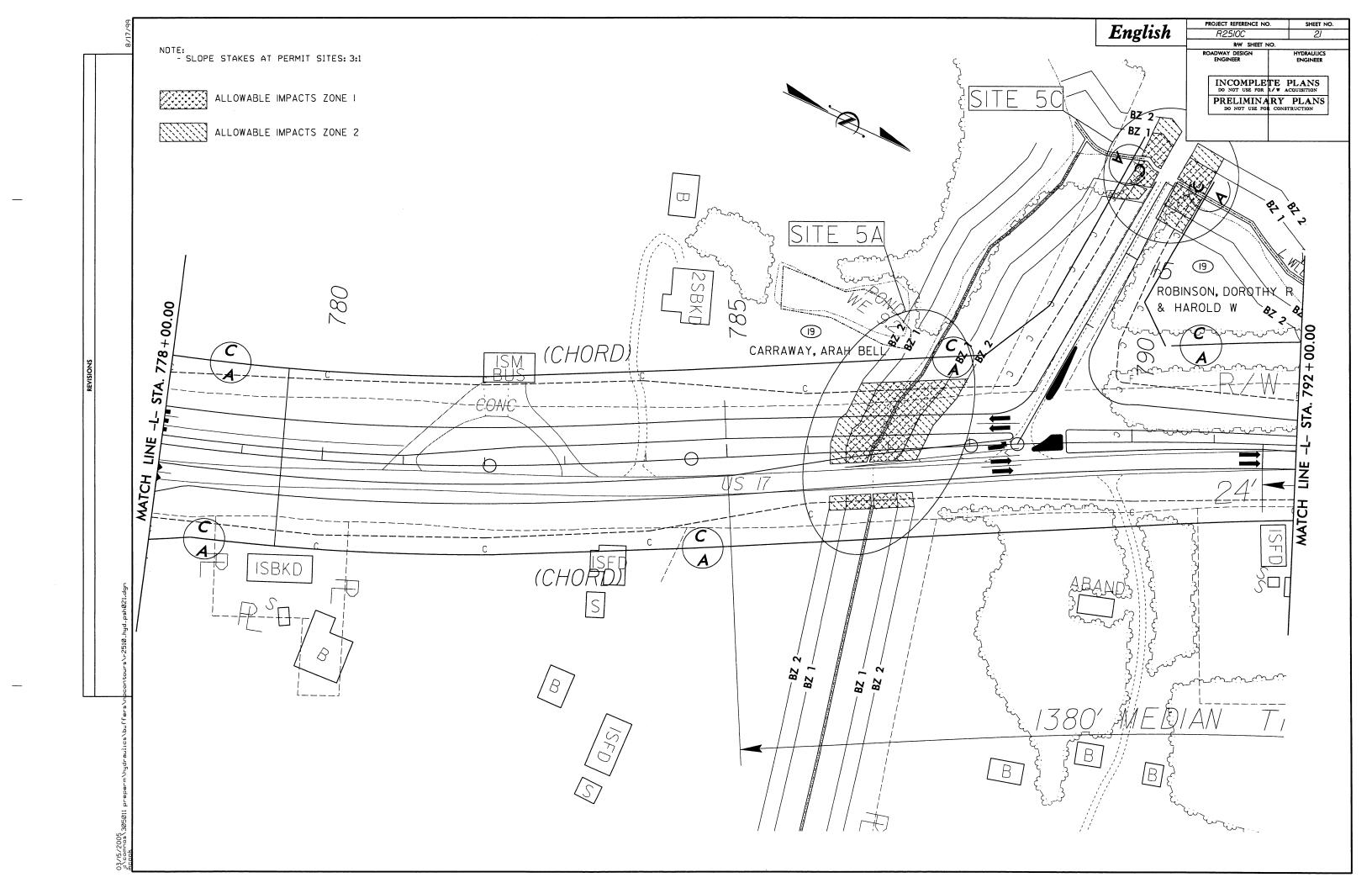


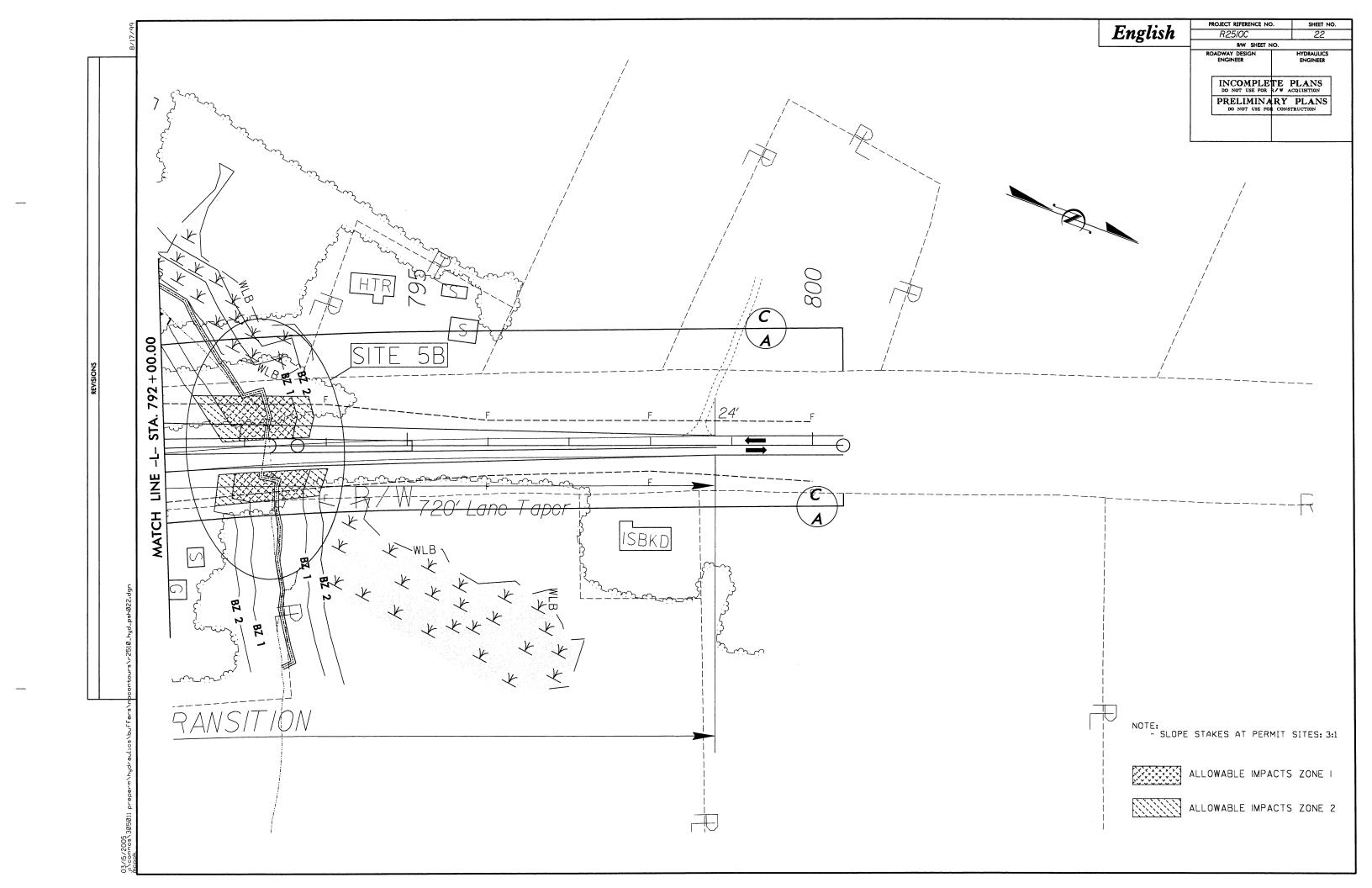


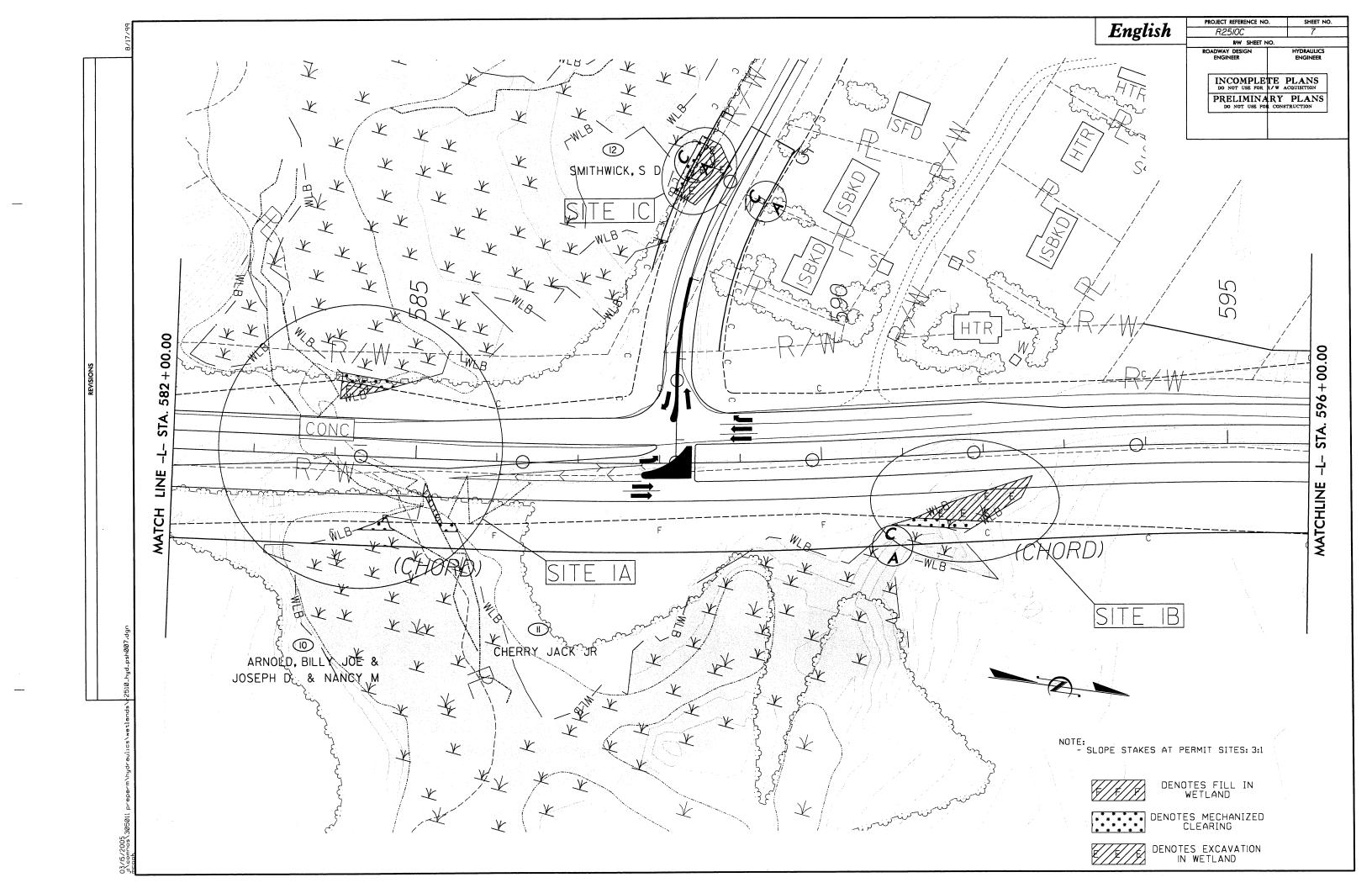


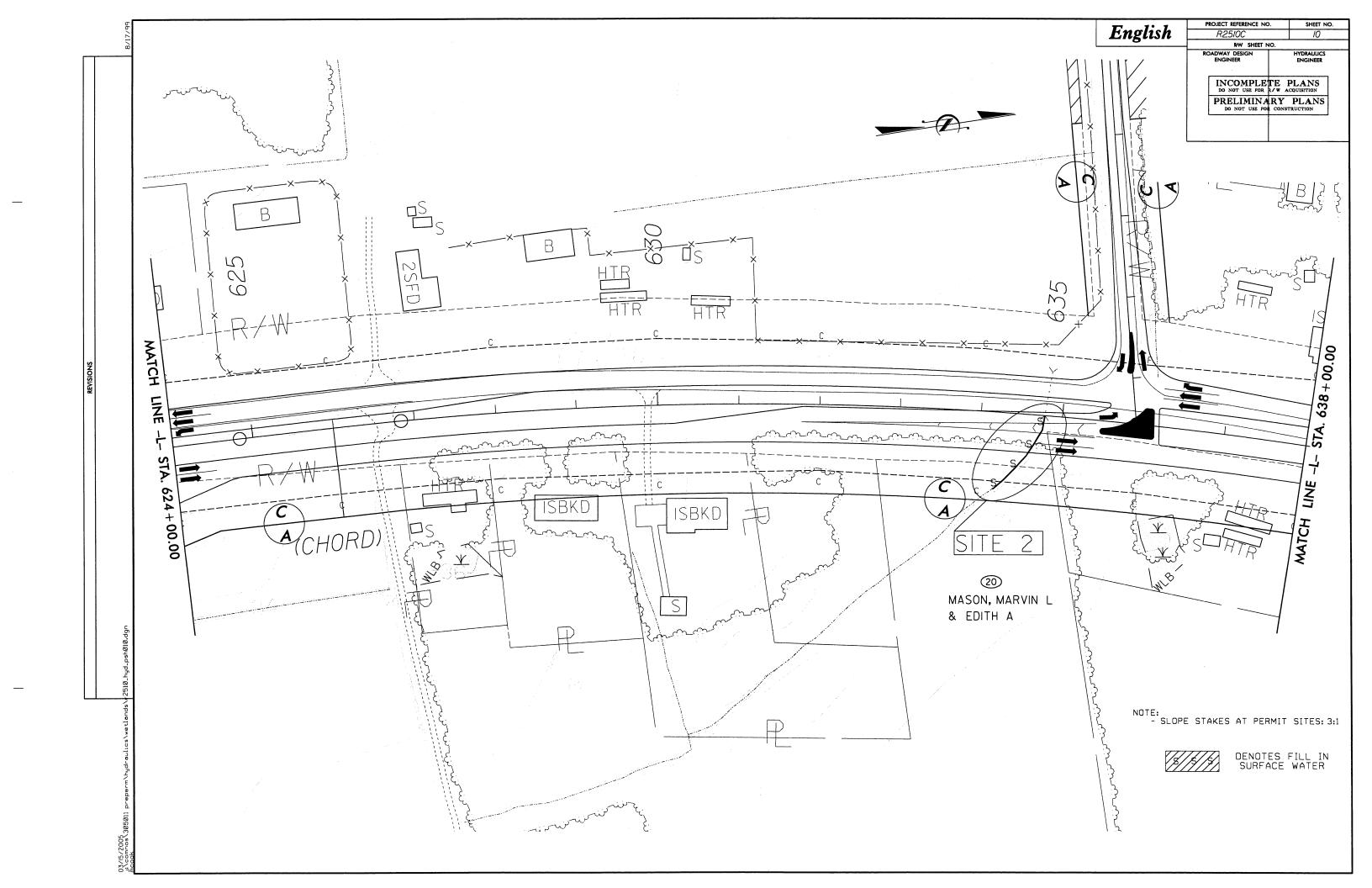


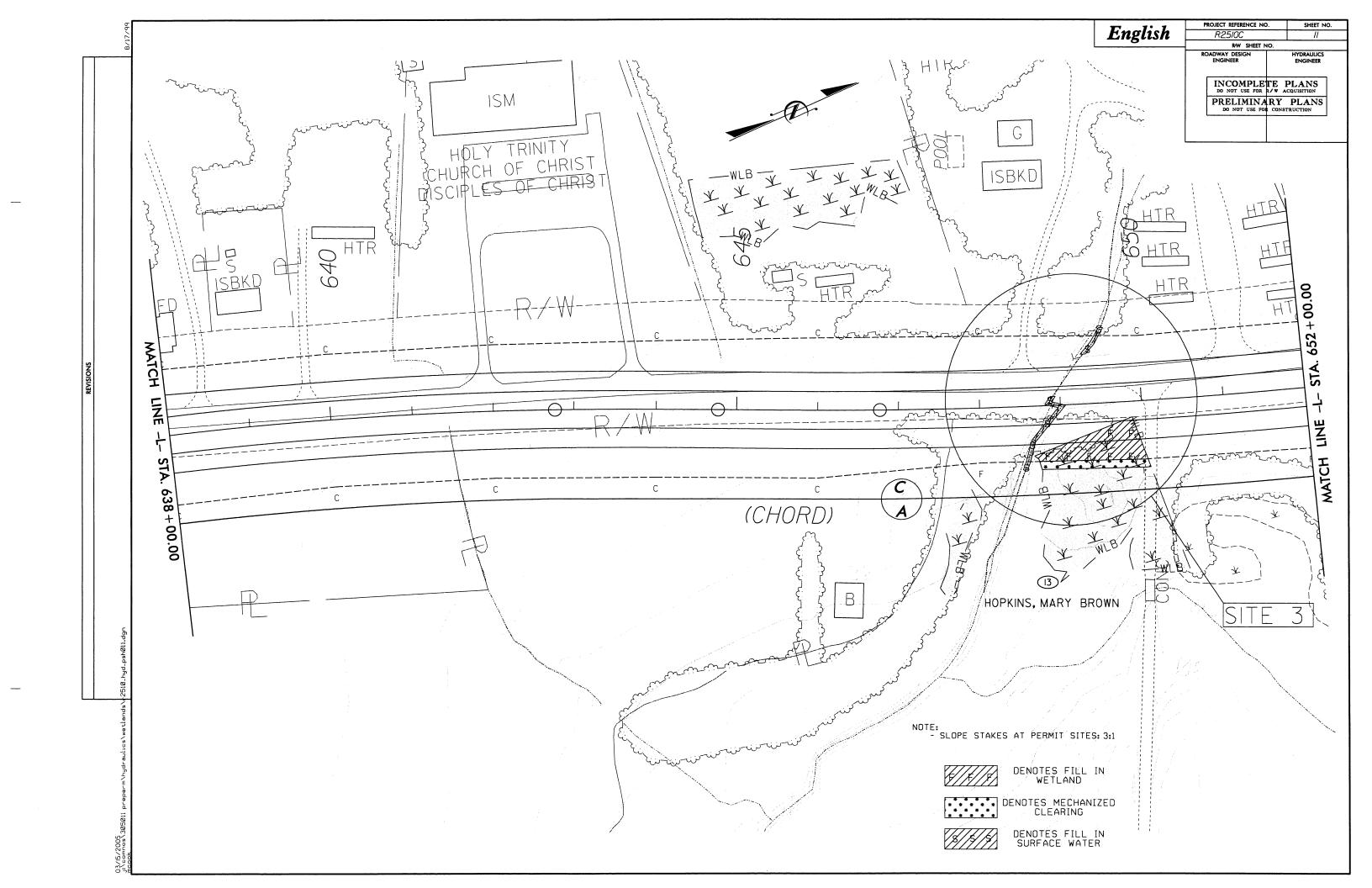


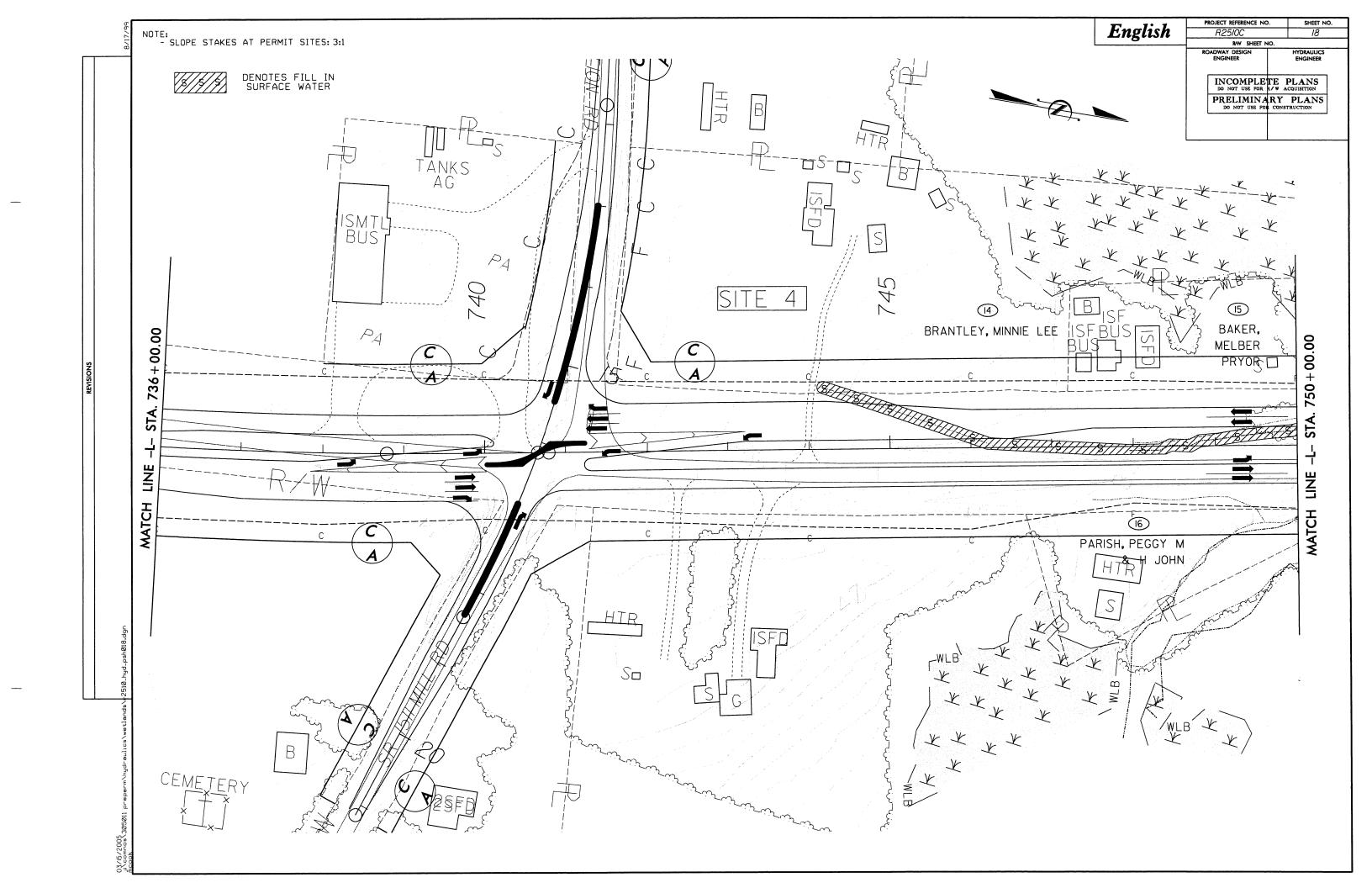


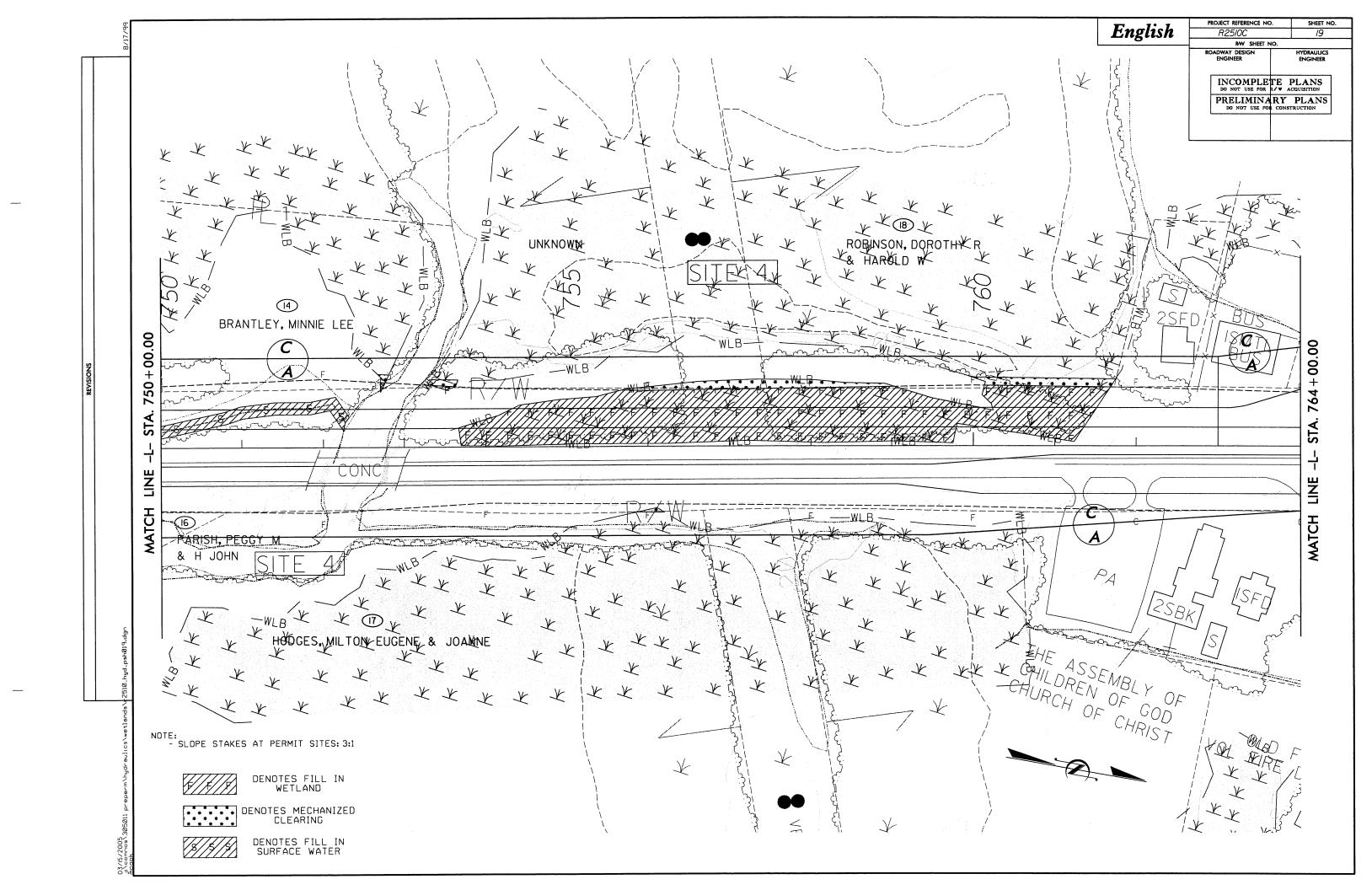


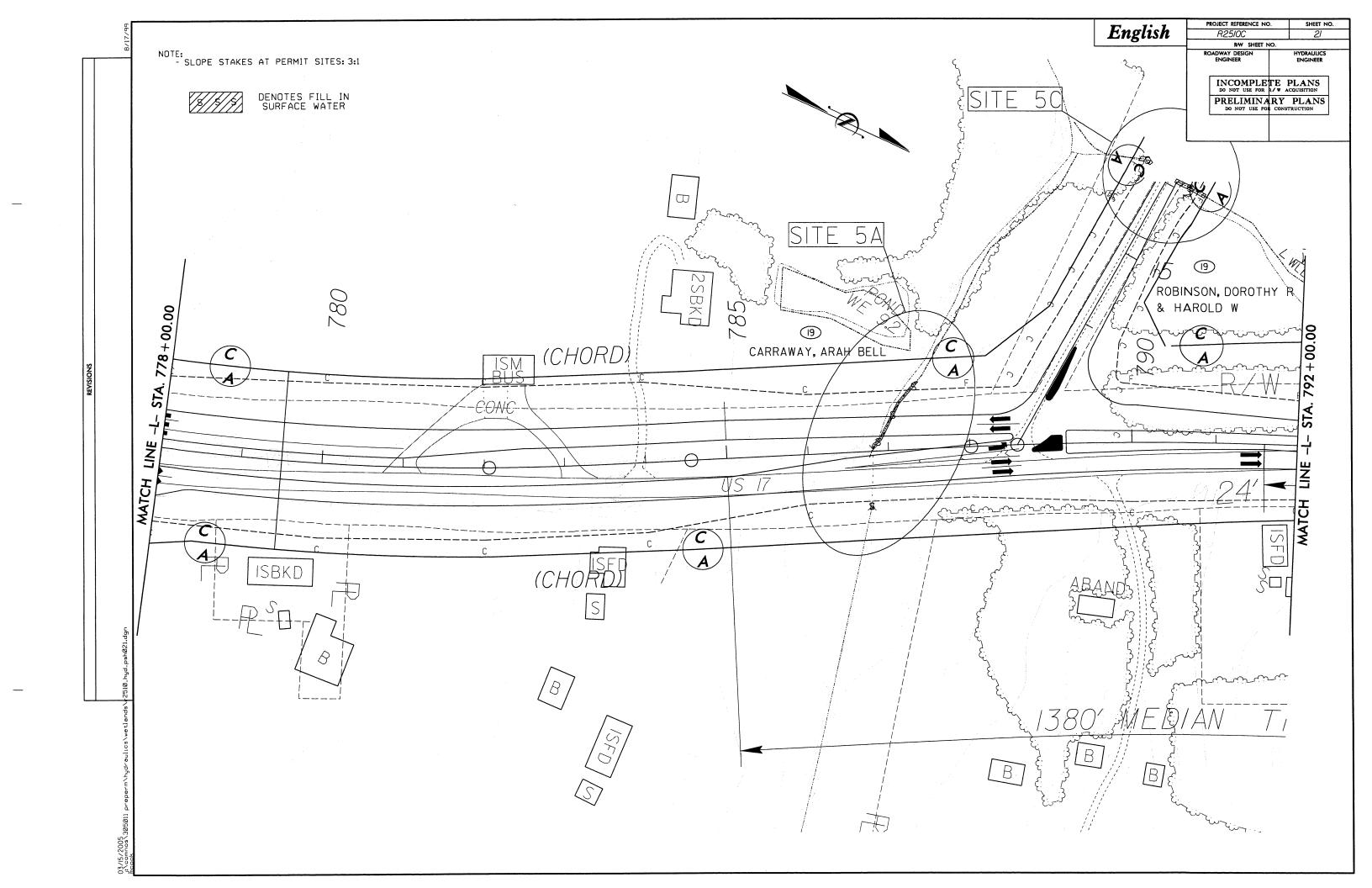


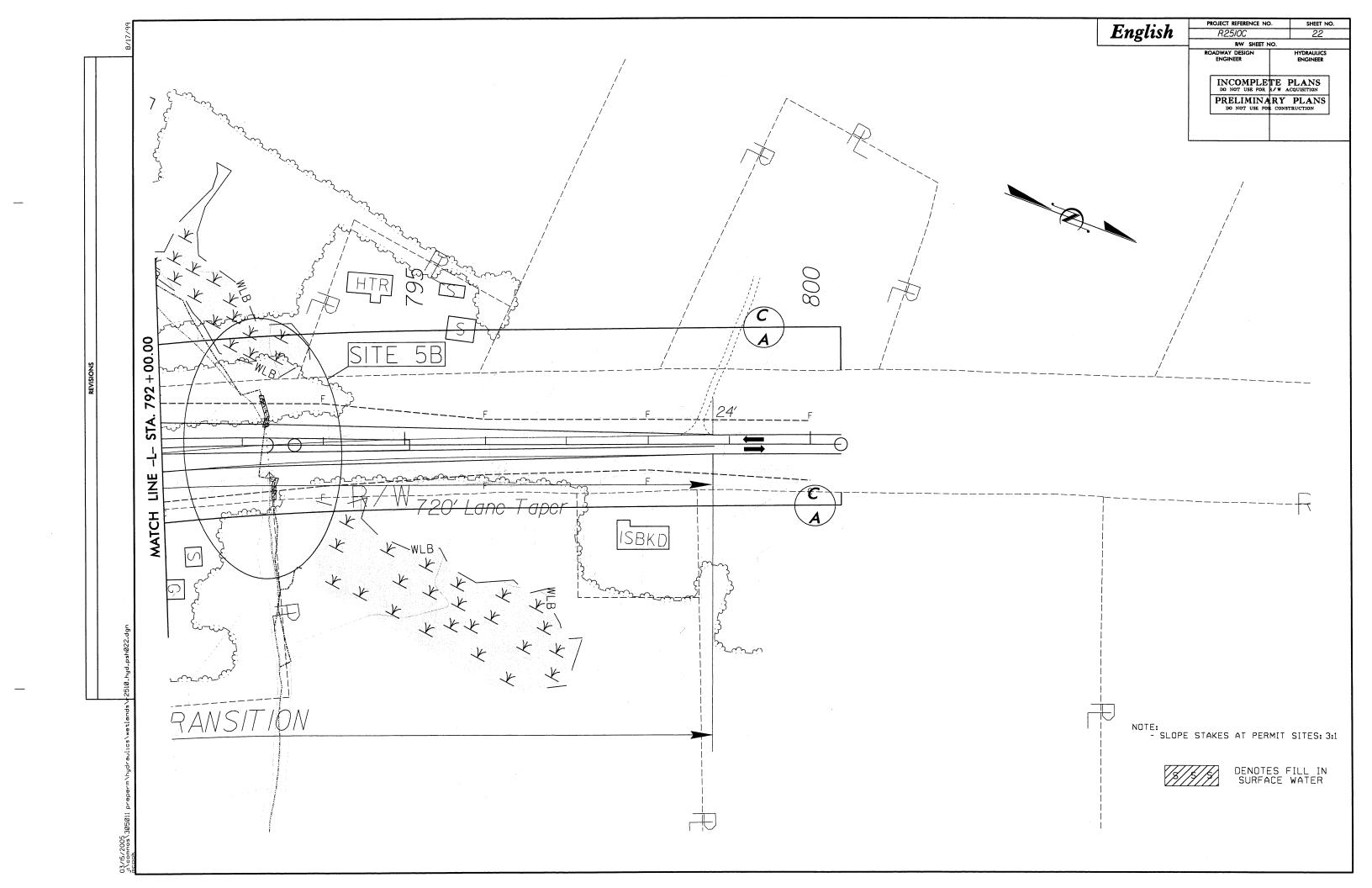


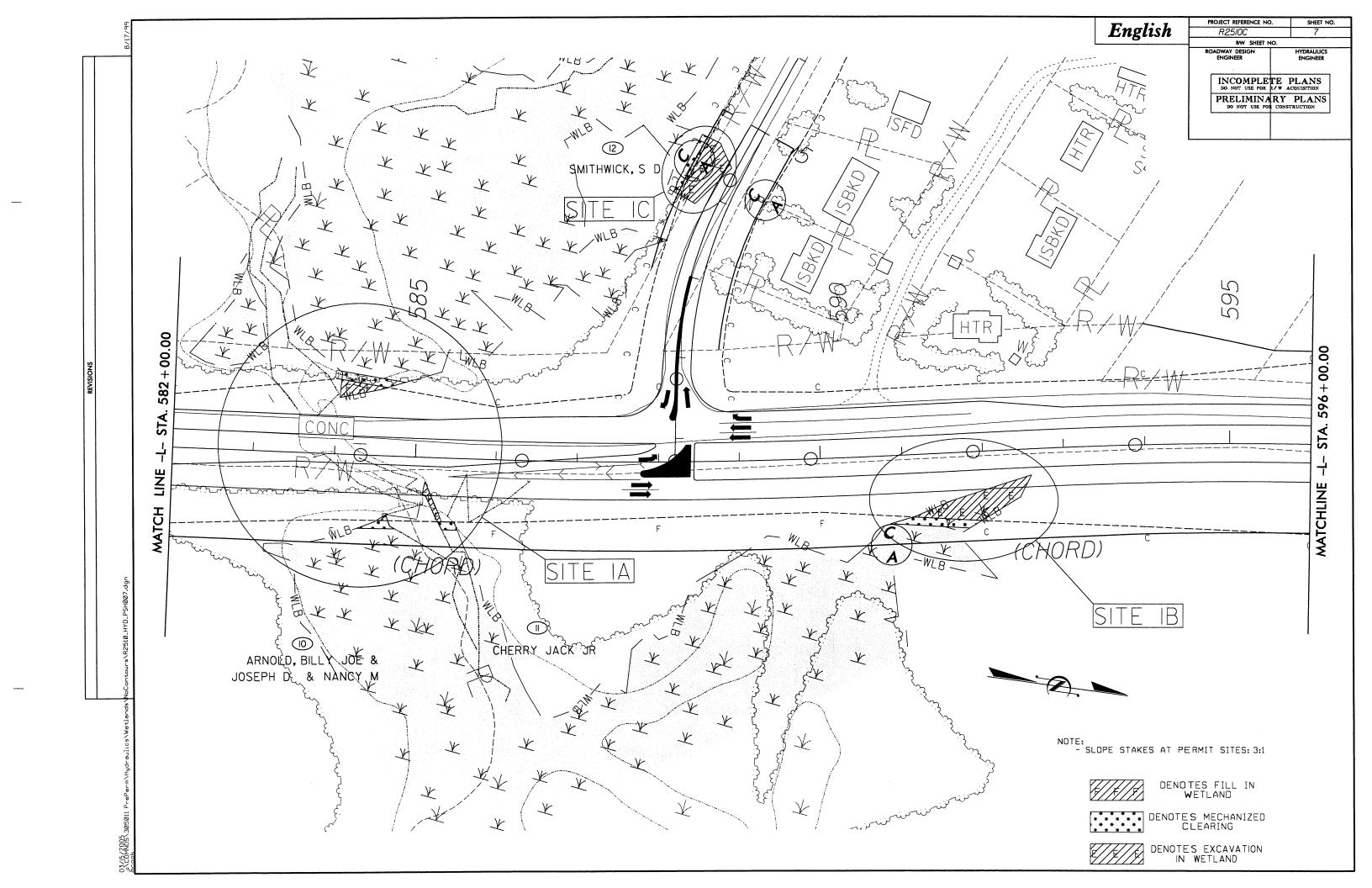


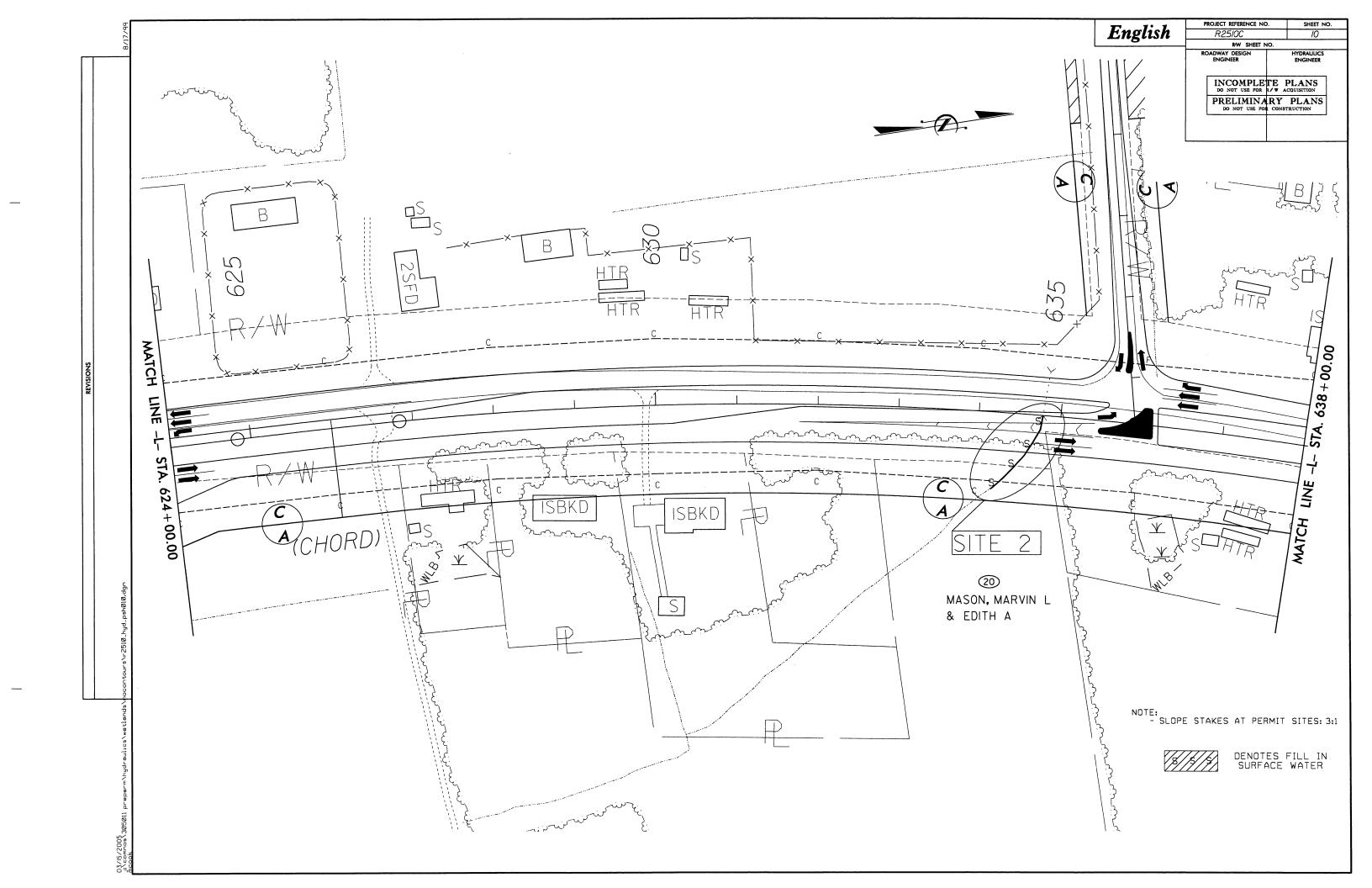


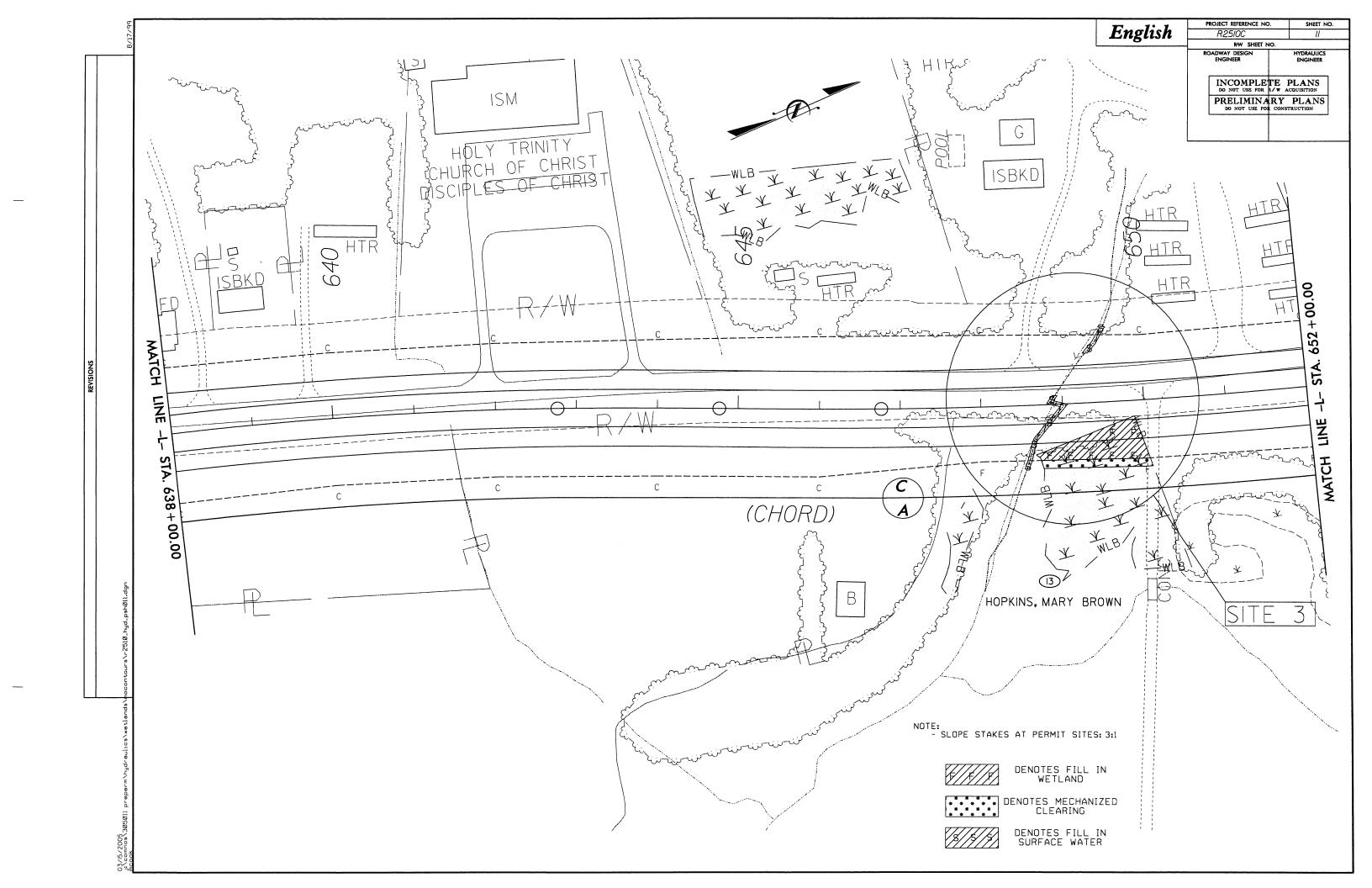


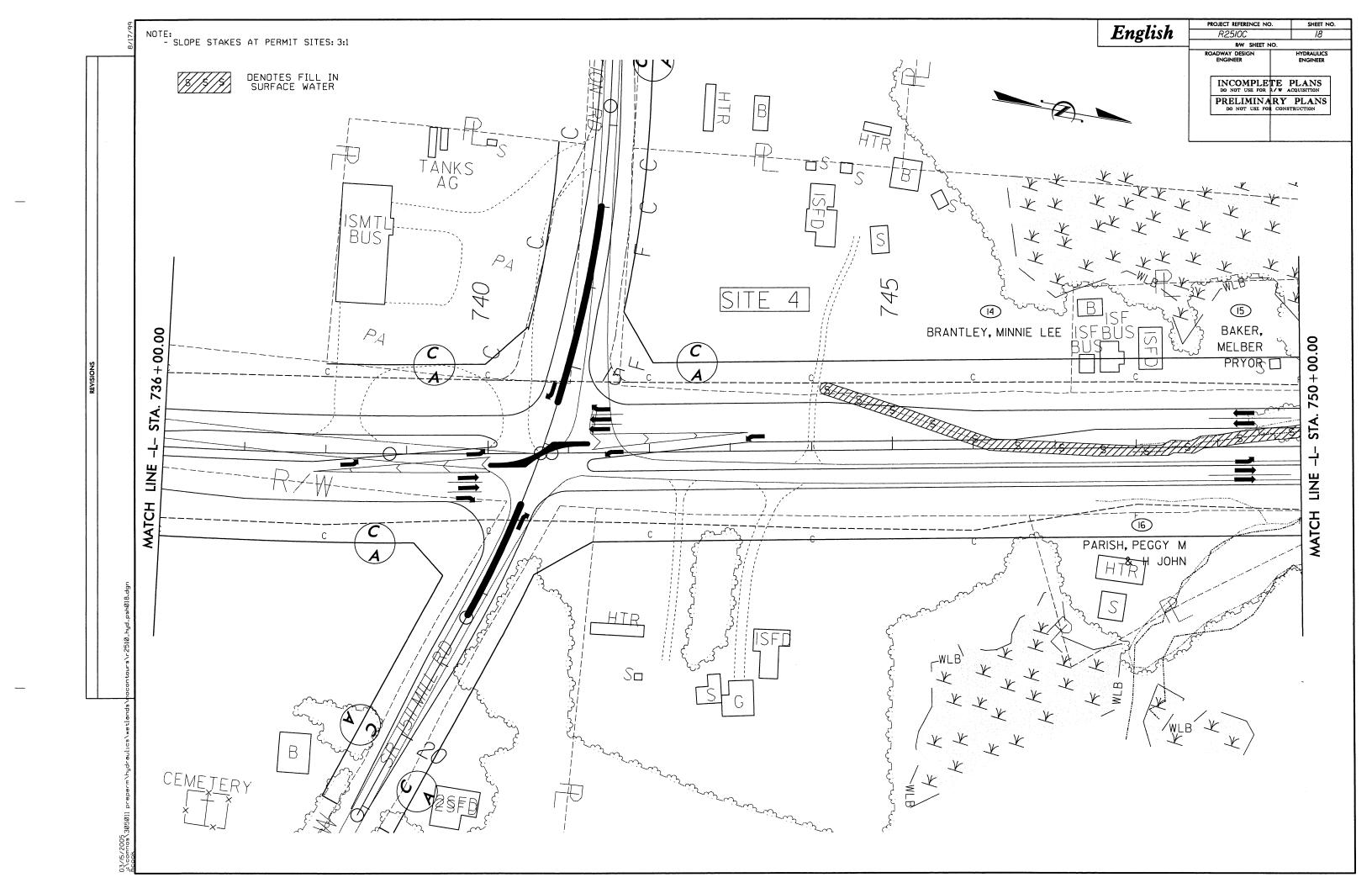


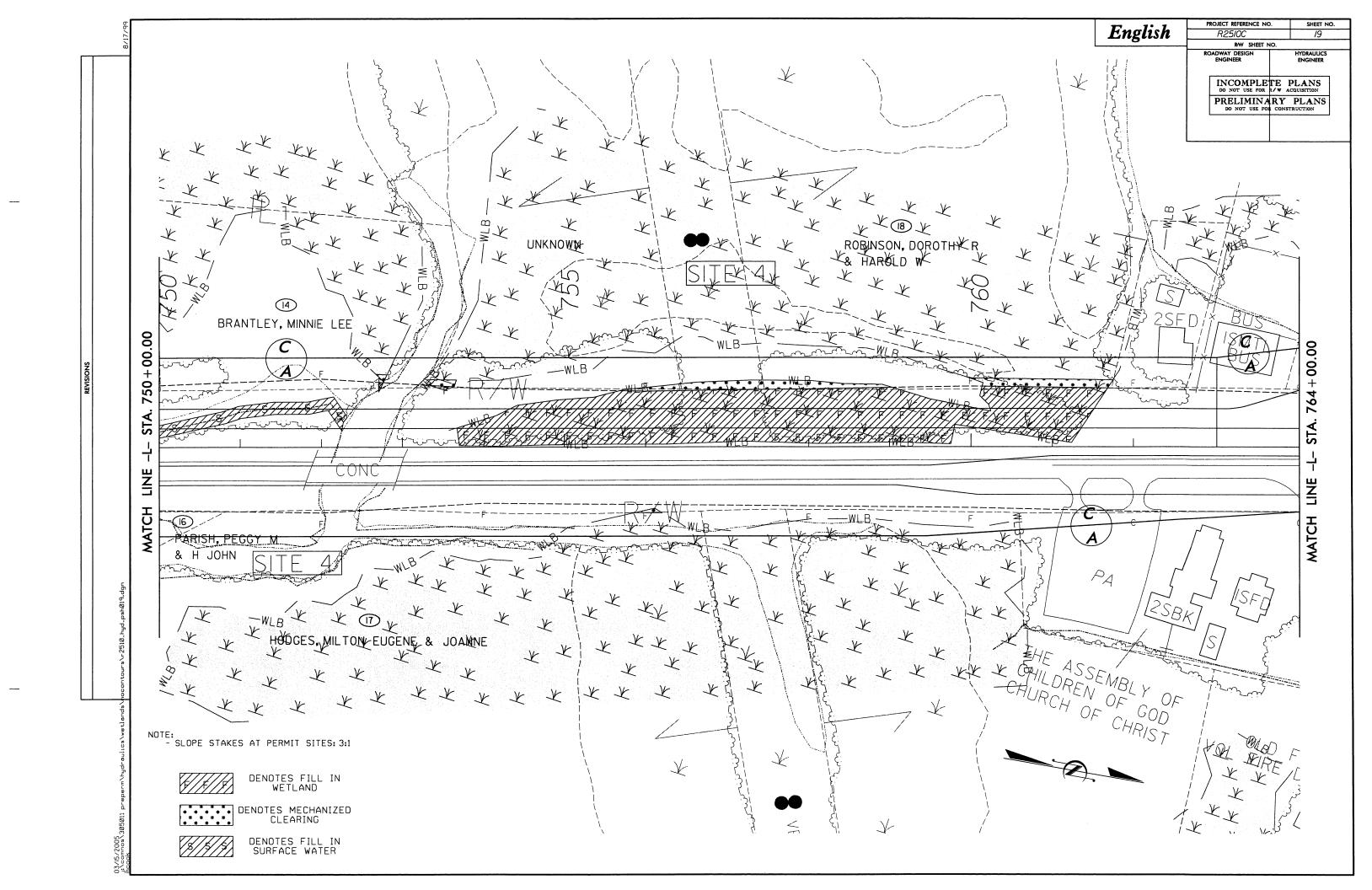


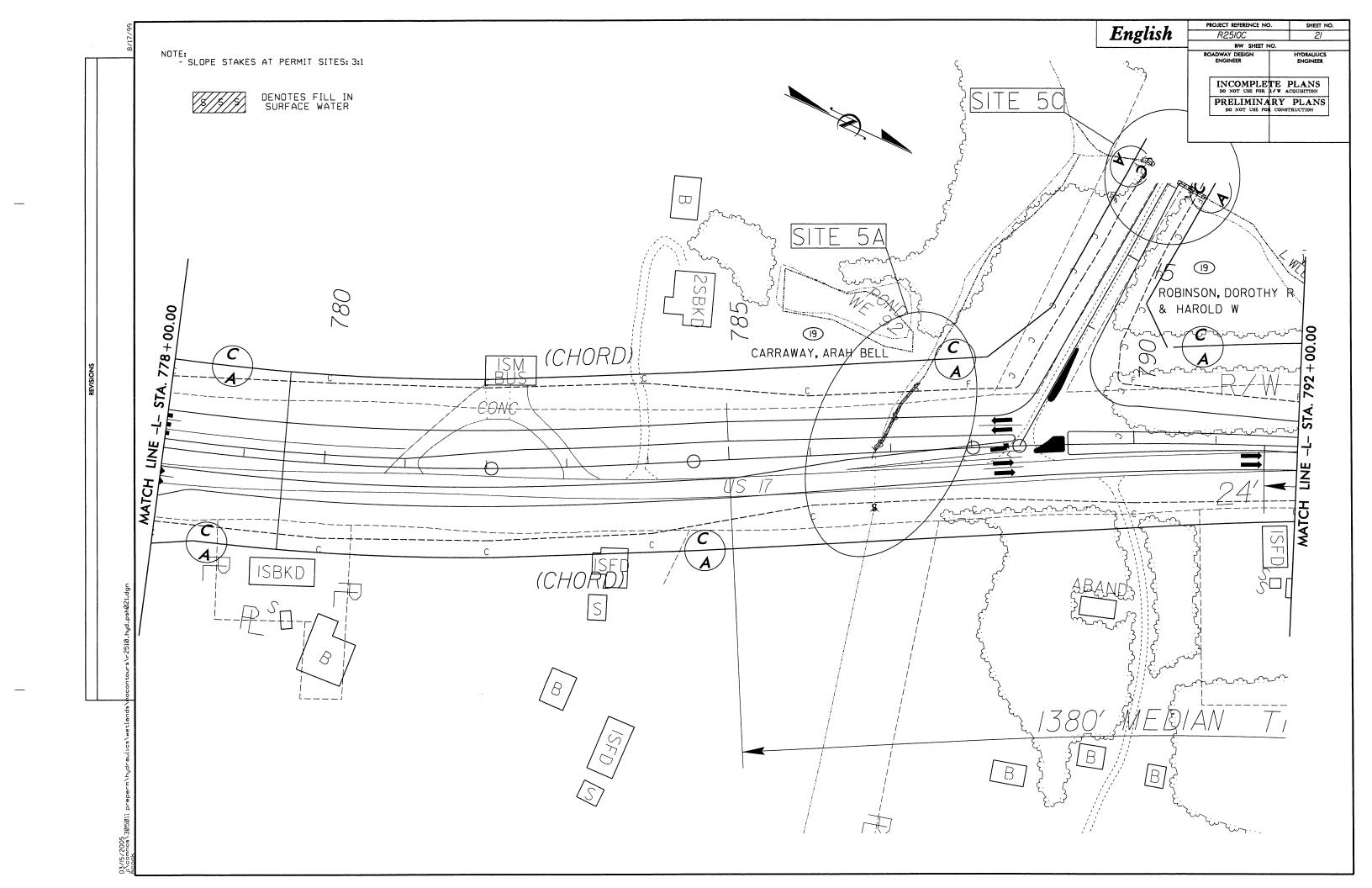


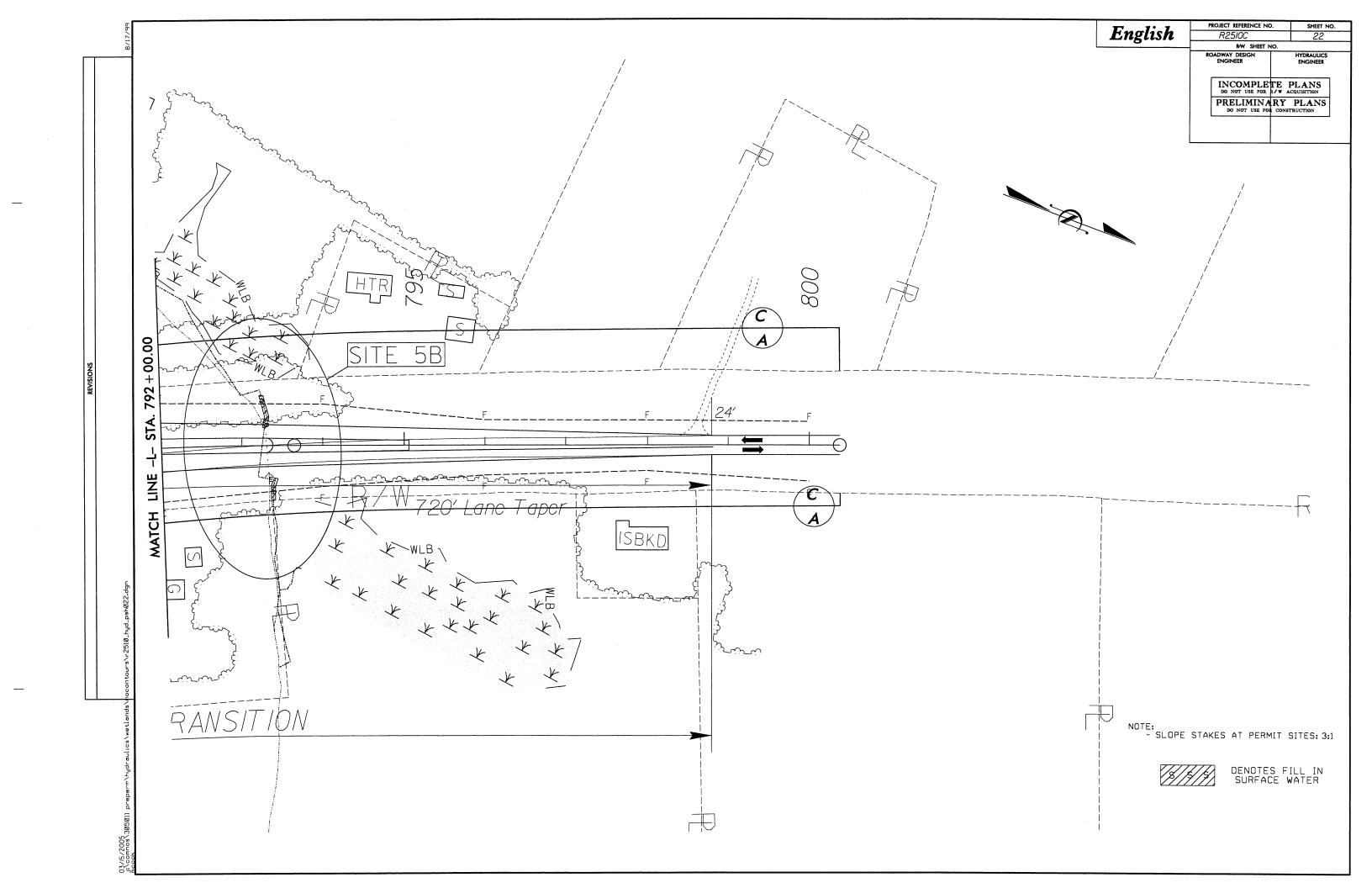


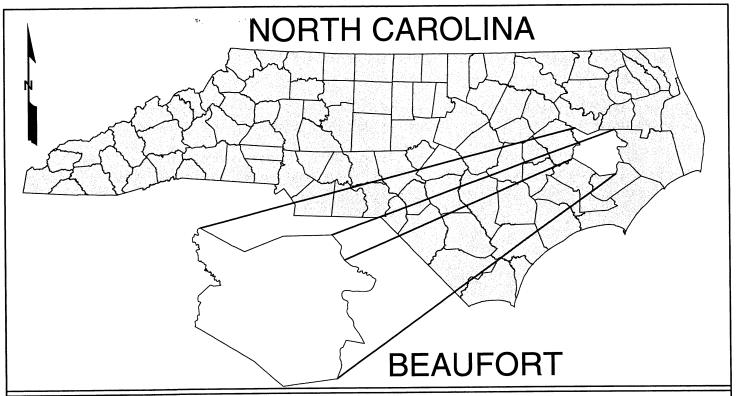


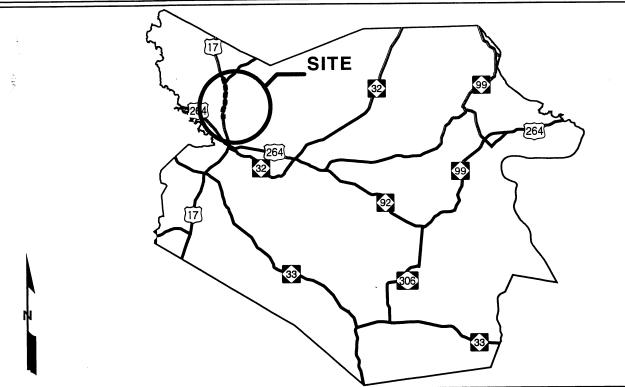










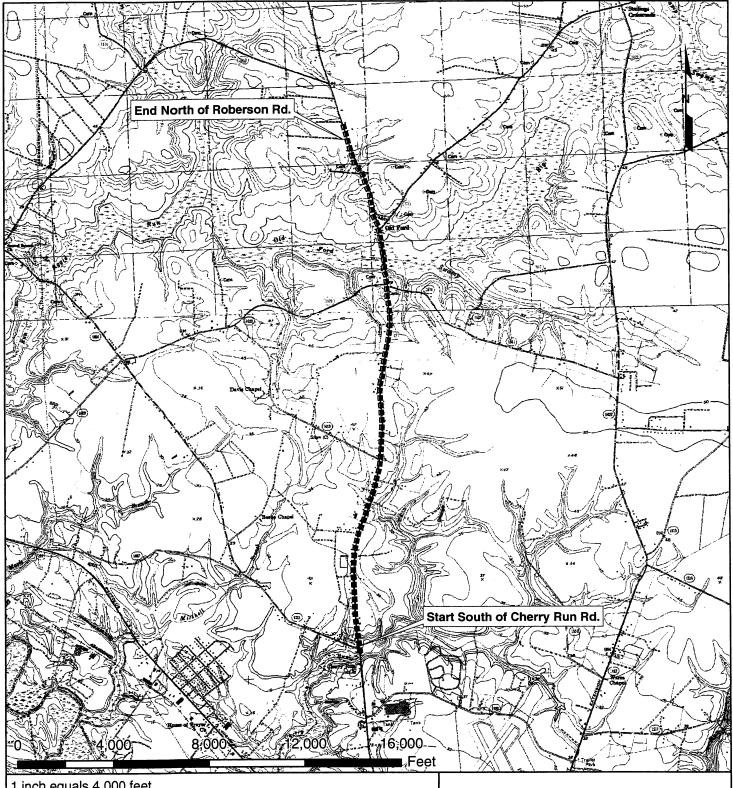


VICINITY MAPS

NCDOT

DIVISION OF HIGHWAYS
BEAUFORT COUNTY
PROJECT: 34440.1.1 (R-2510C)
US 17 BYPASS

3/11/05



1 inch equals 4,000 feet

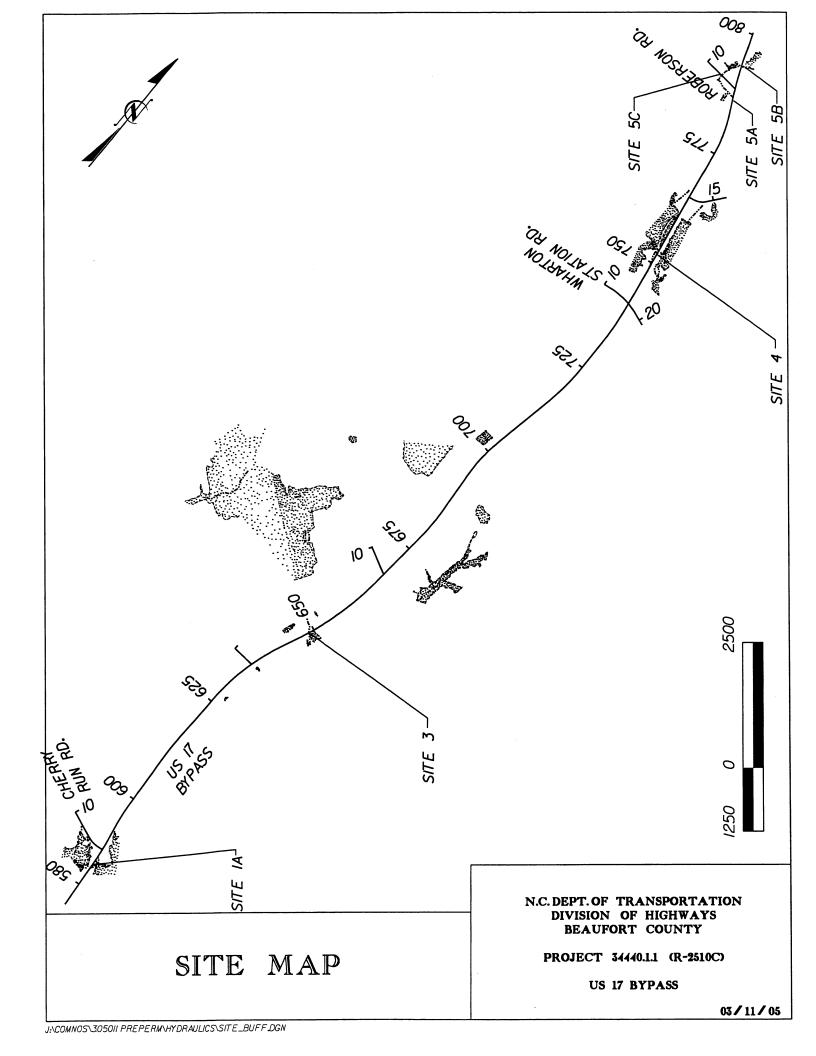
LOCATION

NCDOT

DIVISION OF HIGHWAYS BEAUFORT COUNTY PROJECT: 34440.1.1 (R-2510C) **US 17 BYPASS**

3/11/05

Source: USGS 7.5 Minute Quadrangle, Washington and Old Ford, NC



PROP. NO.	PROPERTY OWNER NAME	PROP. OWNER MAILING ADDRESS
10 13 14 17 19 19	ARNOLD, BILLY JOE & JOSEPH D. A& NANCY M. CHERRY, JACK JR HOPKINS, MARY BROWN BRANTLEY, MINNIE LEE BAKER, MELBER PRYOR PARISH, PEGGY M & H JOHN HODGES, MILTON EUGENE & JOANNE CARRAWAY, ARAH BELL	2125 US 17 HWY N, WASHINGTON, NC 27889 707 OAKWOOD AVE SOUTH, BRANDON, FL 33511 952 WHARTON STATION RD, WASHINGTON, NC 27889 5595 HWY 17 N, WASHINGTON, NC 27889 566 US HWY 17 N, WASHINGTON, NC 27889 5548 US HWY 17 N, WASHINGTON, NC 27889 6361 US HWY 17 N, WASHINGTON, NC 27889
		N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS
		BEAUFORT COUNTY PROJECT: 34440.1.1 (R-2510C)
		3/8/2005

J:\COMNOS\305011 PrePerm\z-misc\Hydro\Buffprop.XLS

																N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	BEAUFORT COUNTY PROJECT: 344401.1 (R-2510C)	3/22/2005	
IMMARY	IN BUFFER	ZONE 2 (ft^2)	453.3	934.7	2.4									2000					
BUFFER IMPACTS SUMMARY	WETLANDS IN BUFFER	ZONE 1 (ft^2)	1477.4	521.8	434.6									2433 0	20047				
BUFFER		Station	-L- 582+75-585+75	-L- 648+50-650+15	-L- 743+50-761+90														
		Site	1A																
													•						

	·		BUFFER IMPACTS SUMMARY	R IMP.	ACTS	SUMI	MARY					
						IMPACT	ST				BUFFER	FER
			ΙΥΤ	TYPE	A	ALLOWABLE	LE	2	MITIGABLE	Щ	REPLACEMENT	EMENT
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	PARALLEL IMPACT	ZONE 1 (ft²)	ZONE 2 (ff²)	TOTAL (ff²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ff²)	ZONE 1 (ff ²)	ZONE 2 (ft²)
1A	ROADWAY FILL	-L- 582+75-585+75 LT/RT	×					14759.6	9684.9	24444.5		
18	ROADWAY FILL	-L- 590+70-592+70 RT										
1C	ROADWAY FILL	-Y26- 15+30-16+75 RT										
3	ROADWAY FILL	ROADWAY FILL -L- 648+50-650+15 LT/RT	×					10208.7	6621.8	16830.5		
4	ROADWAY FILL	-L- 743+50-761+90 LT/RT	×	×				55506.1	33873.3	89379.4		
5A	ROADWAY FILL	-L- 786+20-788+05 LT/RT	×		8114.1	5294.4	13408.5					
5B	ROADWAY FILL	ROADWAY FILL - 192+40-794+15 LT/RT	×		6986.8	4080.4	11067.2					
5C	ROADWAY FILL -Y31- 13+1	-Y31- 13+15-14+60 LT/RT	×		3976.1	2628.6	6604.7					
TOTAL:					19077.1	12003.3	31080.4	80474.4	50179.9	130654.3		

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

BEAUFORT COUNTY PROJECT: 34440.1.1 (R-2510C)

3/15/2005

J:ICOMINOSI305011 PrePerm'z-misciHydrotourperm_summary_englisn.xis

Γ						T	T	T	T	T	T	T	T	T	T	Τ	 T	T	T	 Т	Т	T	T		Γ
		Natural	Stream	Design	E																				0.000
	IPACTS	Existing	Channel	Impacted	(μ)		*	113.8	159.3	841.6	107.5	72.5	54.4												1349.1
	SURFACE WATER IMPACTS		Temp. Fill	In SW	(ac)																				0.000
	SURFA		Fill In SW	(Pond)	(ac)																				0.000
			Fill In SW	(Natural)	(ac)			0.003	0.018	0.287	0.007	0.008	900'0												0.329
WETLAND PERMIT IMPACT SUMMARY		Mechanized	Clearing	(Method III)	(ac)	0.027	0.019		0.031	0.108															0.206
	WETLAND IMPACTS		Excavation	In Wetlands	(ac)	0.074	0.056																		0.130
	WETLAND		Temp. Fill	In Wetlands	(ac)																				0.000
×			Fill in	Wetlands	(ac)	0.022			0.093	1.035															1.150
	-		Structure	Size / Type	LIIS VANMOACO	ROADWAY FILL	ROADWAY FILL	ROADWAY FILL	ROADWAY FILL	ROADWAY FILL	ROADWAY FILL	ROADWAY FILL	ROADWAY FILL												
		A A A A A A A A A A A A A A A A A A A	Station	(From/To)	1 589475 585475 I T/DT	-1 - 590+70-592+70 RT	-Y26- 15+30-16+75 RT	-L- 634+10-634+85 RT	-L- 648+50-650+15 LT/RT	-L- 743+50-761+90 LT/RT	-L- 786+20-788+05 LT/RT	-L- 792+40-794+15 LT/RT	-Y31- 13+15-14+60 LT/RT												
			Site	ė Ž	4	2 8	5	2	3	4	2A	5B	20												TOTALS:

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

BEAUFORT COUNTY PROJECT 3.4440.1.1 (R-2510C) 3/22/2005

* JURISDICTIONAL STREAM NOT IN GPS FILE. APPROXIMATE IMPACT 50LF +/- (FROM PREVIOUS ENVIRONMENTAL DOCUMENTATION.)

NOTE: WETLANDS IN CUT RUN PERPINDICULAR AND AWAY FROM THE ROADWAY, NOT PARALLEL. THEREFORE, DRAWDOWN EFFECT WAS NOT CALCULATED.

Form Revised 3/22/01