

PROJECT SPECIAL PROVISION

(10-18-95)

Z-1

PERMITS

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

PERMIT

AUTHORITY GRANTING THE PERMIT

Dredge and Fill and/or Work in Navigable Waters (404)	U. S. Army Corps of Engineers
Water Quality (401)	Division of Environmental Management, DENR State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-14 of the *Standard Specifications* and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.



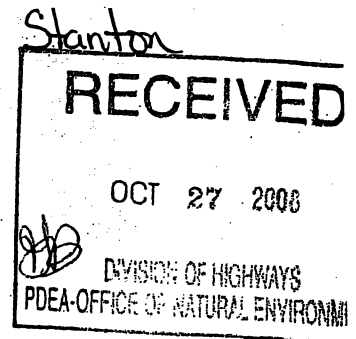
IN REPLY REFER TO

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DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS

P. O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890

October 23, 2008



Regulatory Division

Action ID Number 2008-01413, Fayetteville Outer Loop, Transportation Improvements Project . X-0002B & C and U-2519, State Project Number 8.2441301 and 8.T441302, Cumberland, Hoke and Robeson Counties.

Dr. Gregory J. Thorpe, PhD, Manager
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
Division of Highways
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Dr. Thorpe:

In accordance with your written request of April 25, 2008 and the ensuing administrative record, enclosed are two copies of a Department of the Army permit to directly discharge dredged and/or fill material into jurisdictional wetlands to facilitate the construction of Fayetteville Outer Loop, Transportation Improvements Project X-0002B & C and U-2519, State Project Number 8.2441301 and 8.T441302, Cumberland, Hoke and Robeson Counties, North Carolina. The proposed 27.8 mile controlled-access freeway is located beginning at an interchange with I-95 just south of SR 1718 (Green Spring Road) in Robeson County, continues north through Cumberland County, turns eastward along the southern boundary of the Fort Bragg Military Reservation, and ends just west of US 401 (Ramsey Street).

You should acknowledge that you accept the terms and conditions of the enclosed permit by signing and dating each copy in the spaces provided ("Permittee" on page 3). Your signature, as permittee, indicates that, as consideration for the issuance of this permit, you voluntarily accept and agree to comply with all of the terms and conditions of this permit. All pages of both copies of the signed permit with drawings should then be returned to this office for final authorization. A self-addressed envelope is enclosed for your convenience.

This correspondence contains a proffered permit for the above described project. If you object to this decision, you may request an administrative appeal under Corps regulations at 33 CFR part 331.

Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this decision you must submit a completed RFA form to the District Commander, Wilmington District Corps of Engineers at the following address:

Colonel Jefferson M. Ryscavage, District Commander
U.S. Army Corps of Engineers, Wilmington District
Post Office Box 1890
Wilmington, North Carolina 28402-1890

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete; that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by December 23, 2008.

It is not necessary to submit an RFA form to the Division Office if you do not object to the decision contained in this correspondence.

After the permit is authorized in this office, the original copy will be returned to you; the duplicate copy will be permanently retained in this office. Should you have questions, contact Mr. Richard K. Spencer of my Wilmington Field Office regulatory staff at telephone (910) 251-4172.

Sincerely,



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

Enclosures

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: North Carolina Department of Transportation	File Number: 2008-01413	Date: October 23, 2008
Attached is:		See Section below
<input checked="" type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I: The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/ncel/functions/cw/ccawo/ncp> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

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SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you have questions regarding this decision and/or the appeal process you may contact:

Mr. Richard K. Spencer, Regulatory Project Manager
U.S. Army Corps of Engineers, Wilmington District
Wilmington Regulatory Field Office
69 Darlington Avenue
Wilmington, North Carolina 228402

If you only have questions regarding the appeal process you may also contact:

Mr. Michael Bell, Administrative Appeal Review Officer
CESAD-ET-CO-R
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-8801

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date: _____

Telephone number: _____

DIVISION ENGINEER:
Commander
U.S. Army Engineer Division, South Atlantic
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-3490

DEPARTMENT OF THE ARMY PERMIT

Permittee **NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**

Permit No. **2008-01413**

Issuing Office **USAED, Wilmington**

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: **Directly discharge dredged or fill material into waters of the United States associated with construction of the Fayetteville Outer Loop from I-95 South of Fayetteville to NC 24/87 in Cumberland and Robeson Counties, North Carolina.**

Project Location: **In the Lumber River, Hydrologic Cataloging Unit 03040203 and the Cape Fear River, Hydrologic Cataloging Unit 03030004. The project is more specifically located starting at Latitude 34.89727 N, Longitude 78.95899 W and ending at Latitude 35.11051, Longitude 78.97456.**

a. Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2011**. 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:
 - Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - 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.

E. P. Lusk for Dr. Gregory J. Thayer, PhD 10-29-08
 (PERMITTEE) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

 (DISTRICT ENGINEER) JEFFERSON M. RYSCAVAGE, COLONEL (DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFEREE) (DATE)

SPECIAL CONDITIONS
2008-01413

SPECIAL CONDITIONS (Action ID. 2008-01413, Fayetteville Outer Loop, Transportation Improvements Project . X-0002B & C and U-2519, State Project Number 8.2441301 and 8.T441302

1. Failure to institute and carry out the details of the following special conditions below will result in a directive to cease all ongoing and permitted work within waters of the United States, including wetlands, associated with the permitted project, or such other remedies and/or fines as the U.S. Army Corps of Engineers District Commander or his authorized representatives may seek.
2. All work authorized by this permit must be preformed in strict compliance with the attached plans, which are a part of this permit.
3. The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office, 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 notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings. One copy of the final half-size construction drawings shall be furnished to the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office prior to the pre-construction meeting.
4. The permittee shall 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, Mr. Richard Spencer, Wilmington Regulatory Field Office prior to any active construction in waters or wetlands.
5. 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. Copies of this permit and any modifications authorized by the USACE shall be available for review at the construction site at all times. All violations, including non-compliance of these conditions, of the authorized permit shall be reported to the District Engineer within 24 hours of the violation.
- *6. Compensatory mitigation for the unavoidable impacts to 34.84 acres of riparian wetlands and 13.59 acres of non-riparian wetlands associated with the proposed project shall be provided by

debiting 104.52 acres of riparian wetlands and 40.77 acres of non-riparian wetlands from the Privateer Farms Mitigation Site. Compensatory mitigation for the unavoidable impacts to 12,346 linear feet of important stream reach associated with the proposed project shall be provided by debiting 18,519 linear feet of stream reach from the Privateer Farms Mitigation Site. The permittee shall maintain the Privateer Farms Mitigation Site in its natural condition, as altered by the mitigation plan, in perpetuity. Except as authorized or required by the mitigation plan, prohibited activities on the mitigation property include, but are not limited to, filling; grading; excavating; earth moving of any kind; construction of roads, walkways, buildings signs, or any other structure; any activity that may alter the drainage patterns on the property; destruction, mowing, or other alteration of vegetation on the property; disposal or storage of any garbage trash, or other waste material. In addition, the permittee shall take no action, whether on or off the mitigation property, which will adversely impact the wetlands on the mitigation property. This condition above, runs with the land. The permittee shall not sell, lease, or otherwise convey any interest in the mitigation property without subjecting the property to legally enforceable restrictions on the use of the property, to ensure its preservation, approved in writing by the Wilmington District Corps of Engineers.

7. 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, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project. 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.

8. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area.

9. To ensure that all borrow and waste activities occur on high ground and do not result in loss or 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 ensure that all such areas comply with the preceding condition (#7) 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 preceding condition (#7). 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.

10. The permittee shall comply with the conditions specified in the water quality certification, No. 3758, issued by the North Carolina Division of Water Quality on 6 October 2008.
11. The permittee shall abide by the conservation measures identified in the Biological Assessment prepared for the Red-cockaded Woodpecker, *Picoides borealis*, dated 9 September 2004 and the conservation measures identified by the US Fish and Wildlife Service in the Biological Opinion dated 28 April 2005.
12. This Corps permit does not authorize you to take an endangered species, in particular the Red Cockaded Woodpecker. In order to legally take a listed species, you must have separate authorization under the ESA. (e.g., an ESA Section 10 permit, or a BO under the ESA Section 7, with "incidental take" provisions with which you must comply). The enclosed USFWS Biological Opinion, dated 28 April 2005, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the BO. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the attached BO, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the BO, where a take of the listed species occurs, would constitute non-compliance with your Corps permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its BO, and the ESA.
13. The permittee shall continue coordination of design for U-2519 Sections AA, AB, BA, BB, CA and CB through the NEPA/Section 404 Merger 01 Process – Concurrence points 2A, 4B and 4C. The final design shall incorporate appropriate avoidance, minimization and mitigation of aquatic resource impacts to the fullest extent practicable. The applicant shall not commence any work within waters of the United States within U-2519 Sections AA, AB, BA, BB, CA and CB until after the submittal of a modified application with final design plans reflecting the appropriate avoidance, minimization and mitigation within these sections and has received final approval from Wilmington District Corps of Engineers.
14. 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. Riprap armoring of streams at culvert 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.
15. 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. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. 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.

16. The permittee shall take appropriate measure to control any bottom sediment that may be sluiced by the draining of impacted ponds on the project site. Sediment sluicing from ponds is not authorized by this permit.

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

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

19. The permittee shall install barrier fencing or other acceptable forms of barrier around all wetlands that are not to be disturbed to make them readily visible and prevent construction equipment from inadvertently entering and disturbing the wetland areas that are to remain undisturbed.

20. 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.

21. The permittee shall abide by all project commitments identified in the FHWA/NCDOT EIS and ROD.

22. The permittee shall abide by all stipulations identified in the Memorandum of Agreement between the North Carolina Department of Transportation and the North Carolina State Historic Preservation Officer, executed 12 April 2005, and the stipulations identified in the Concurrence Form for Assessment of Effects, executed 11 January 2005.

23. If the permittee discovers any previously unknown historic or archeological sites while accomplishing the authorized work, he shall immediately stop work and notify the Wilmington District Engineer who will initiate the required State/Federal coordination.

24. The permittee shall maintain the authorized work in good condition and in conformance with the terms and conditions of this permit. The permittee is not relieved of this requirement if he abandons the permitted activity without transferring it to a third party.

25. 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.

26. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

27. In issuing this permit, the Federal Government does not assume any liability for:

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 Federal activities initiated on behalf of the general public.

c. Damages to other permitted or un-permitted activities or structures caused by the authorized activity.

d. Design and construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.



October 6, 2008

RECEIVED

OCT - 8 2008

REGULATORY
WILM.FLD.OFC.

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

Subject 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water with ADDITIONAL CONDITIONS for Proposed Fayetteville Outer Loop in Cumberland, Hoke and Robeson Counties, Federal Aid Project No NHF-DPR-0100(001), State Project No 8 2441301, TIP Nos X-002 B&C and U-2519
DWQ Project No 20080737

Dear Dr Thorpe

Attached hereto is a copy of Certification No 3758 issued to The North Carolina Department of Transportation dated October 6, 2008

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

Sincerely,

Coleen Sullins,
Director

Attachments

- cc Richard Spencer, US Army Corps of Engineers, Wilmington Field Office
- Tyler Stanton, NCDOT NEU
- Jim Renko, DOT Division 6 Environmental Officer
- Kathy Matthews, Environmental Protection Agency
- Travis Wilson, NC Wildlife Resources Commission
- Beth Harmon, Ecosystem Enhancement Program
- Ken Averitte, DWQ Fayetteville Regional Office
- File Copy



401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H 0500. This certification authorizes the NCDOT to impact 57.08 acres of jurisdictional wetlands and 13,232 linear feet of jurisdictional streams in Cumberland, Hoke and Robeson Counties. The project shall be constructed pursuant to the application dated received April 25, 2008. The authorized impacts are as described below.

Section X-0002 B Stream Impacts in the Cape Fear River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Temporary Impacts to Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Impacts to Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
2	0	0	213	0	213	213
Total	0	0	213	0	213	213

Total Stream Impact for Section X-0002 B: 213 linear feet

Section X-0002 C Stream Impacts in the Cape Fear River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Temporary Impacts to Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Impacts to Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
1	0	0	279	0	279	279
3	0	0	775	0	775	775
5	0	0	361	0	361	361
6	0	0	479	0	479	479
7	0	0	213	0	213	213
8	0	0	509	0	509	509
9	0	0	98	0	98	98
Total	0	0	2714	0	2714	2714

Total Stream Impact for Section X-0002 C: 2,714 linear feet

Section U-2519 E Stream Impacts in the Cape Fear River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Temporary Impacts to Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Impacts to Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
2	886	0	0	0	886	0
Total	886	0	0	0	886	0

Total Stream Impact for Section U-2519 E: 886 linear feet



This approval is only valid for the purpose and design that you submitted in your application dated received April 25, 2008. 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 on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Conditions of Certification

1. This Water Quality Certification authorizes impacts to wetlands, streams and open waters to sections X-0002 B and C, and U-2519 DA and E only. When final design plans are completed for U-2519 Sections AA, AB, BA, BB, CA, and CB, modifications to the 401 Water Quality Certification shall be submitted with four 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, or surface waters, located in U-2519 Sections AA, AB, BA, BB, CA or CB shall begin until after the permittee applies for, and receives a written modification of the 401 Water Quality Certification from the NC Division of Water Quality.
- * 2. Compensatory mitigation for 12,346 linear feet of impact to streams is required. We understand that you have chosen to debit mitigation from the Privateer Farm Mitigation Bank. This certification gives approval to the debiting of 12,346 linear feet of stream mitigation from the Privateer Farms Mitigation Site in order to satisfy the mitigation requirements of this project.
- * 3. Compensatory mitigation for 48.4 acres of wetlands is required at a 2:5:1 ratio. We understand that you have chosen to debit mitigation from the Privateer Farm Mitigation Bank. This certification gives approval to the debiting of 121.0 acres of wetland mitigation from the Privateer Farms Mitigation Site in order to satisfy the mitigation requirements of this project.
4. At locations where ponds will be drained, proper measures will be taken to drain the pond with limited impact to upstream and downstream channel stability as well as to native aquatic species. Proper measures will be taken to avoid sediment release and/or sediment accumulation downstream as a result of pond draining. If typical pond draining techniques will create significant disturbance to native aquatic species, additional measures such as collection and relocation may be necessary to prevent a significant fish kill. NCDOT shall consult with NC Wildlife Resources staff to determine if there are any sensitive species, and the most appropriate measures to limit impacts to these species. The permittee shall observe any natural channel re-establishment, or utilize natural channel construction techniques, to ensure that the jurisdictional stream channel above and below the drained pond remain stable, and that no additional impacts occur within the natural stream channel as a result of draining the pond.
5. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species.
6. Strict adherence to the most recent version of NCDOT's Best Management Practices For Bridge Demolition and Removal approved by the US Army Corps of Engineers is a condition of the 401 Water Quality Certification.
7. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. Please refer to the most current version of *Stormwater Best Management Practices*.



- 8 For any streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species
- 9 Placement of culverts and other structures in waters, streams, and wetlands shall 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 is being maintained if requested in writing by DWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NC DWQ for guidance on how to proceed and to determine whether or not a permit modification will be required
- 10 If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage
- 11 Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed
- 12 One copy of the final construction drawings shall be furnished to NCDWQ Central Office, and one copy to the NCDWQ Fayetteville Regional Office, prior to the pre-construction meeting. The permittee shall provide written verification that the final construction drawings comply with the permit drawings contained in the application dated received April 25, 2008. Any deviations from the approved drawings are not authorized unless approved by the NC Division of Water Quality
- 13 If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills
- 14 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
- 15 The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions
- 16 The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage
- 17 The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval
- 18 All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water
- 19 Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream
- 20 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



- 21 No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification
- 22 Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited
- 23 The permittee 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 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
- 24 All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification
- 25 A copy of this Water Quality Certification shall be maintained on site at 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
- 26 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.
- 27 The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc
- 28 The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery
- 29 Upon completion of the project (including any impacts at associated borrow or waste site), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed
- 30 Native woody riparian vegetation (i.e., trees and shrubs native to your geographic region) must be reestablished within the construction limits of the project by the end of the growing season following completion of construction
- 31 There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities
- 32 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.

33 Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

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.

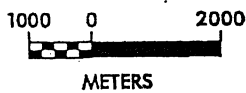
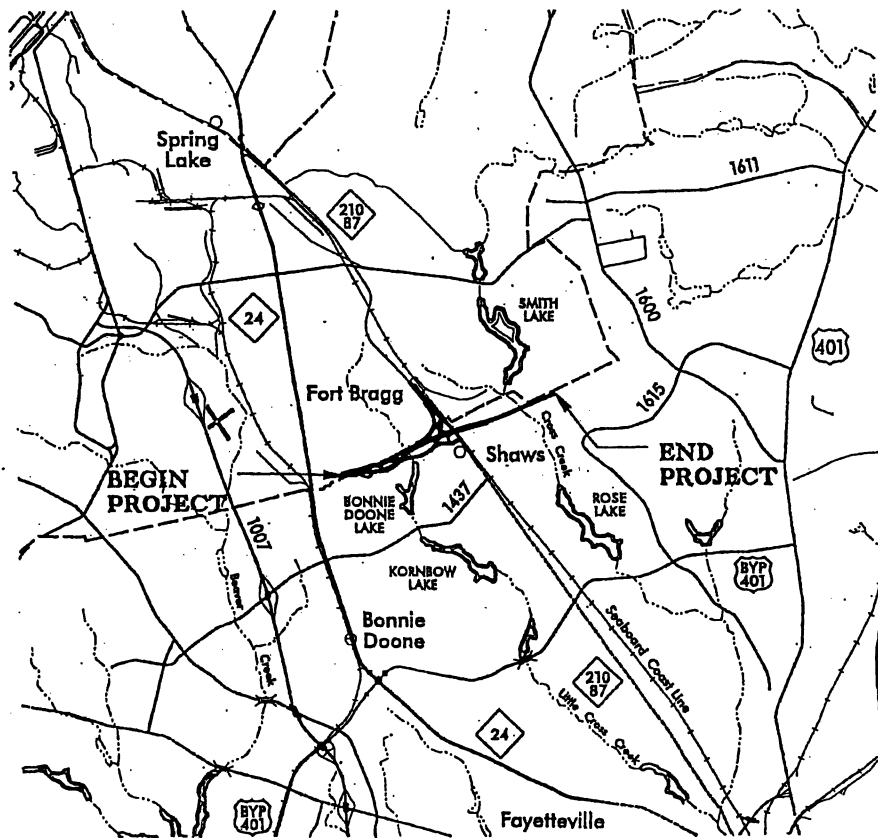
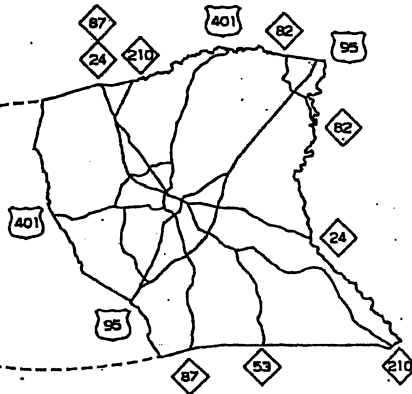
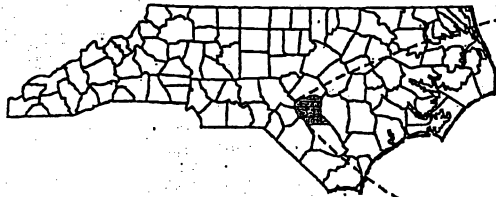
If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. 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 October 2008

DIVISION OF WATER QUALITY

Coleen Sullins
Director

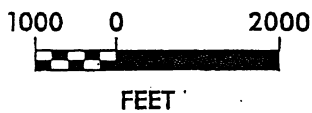
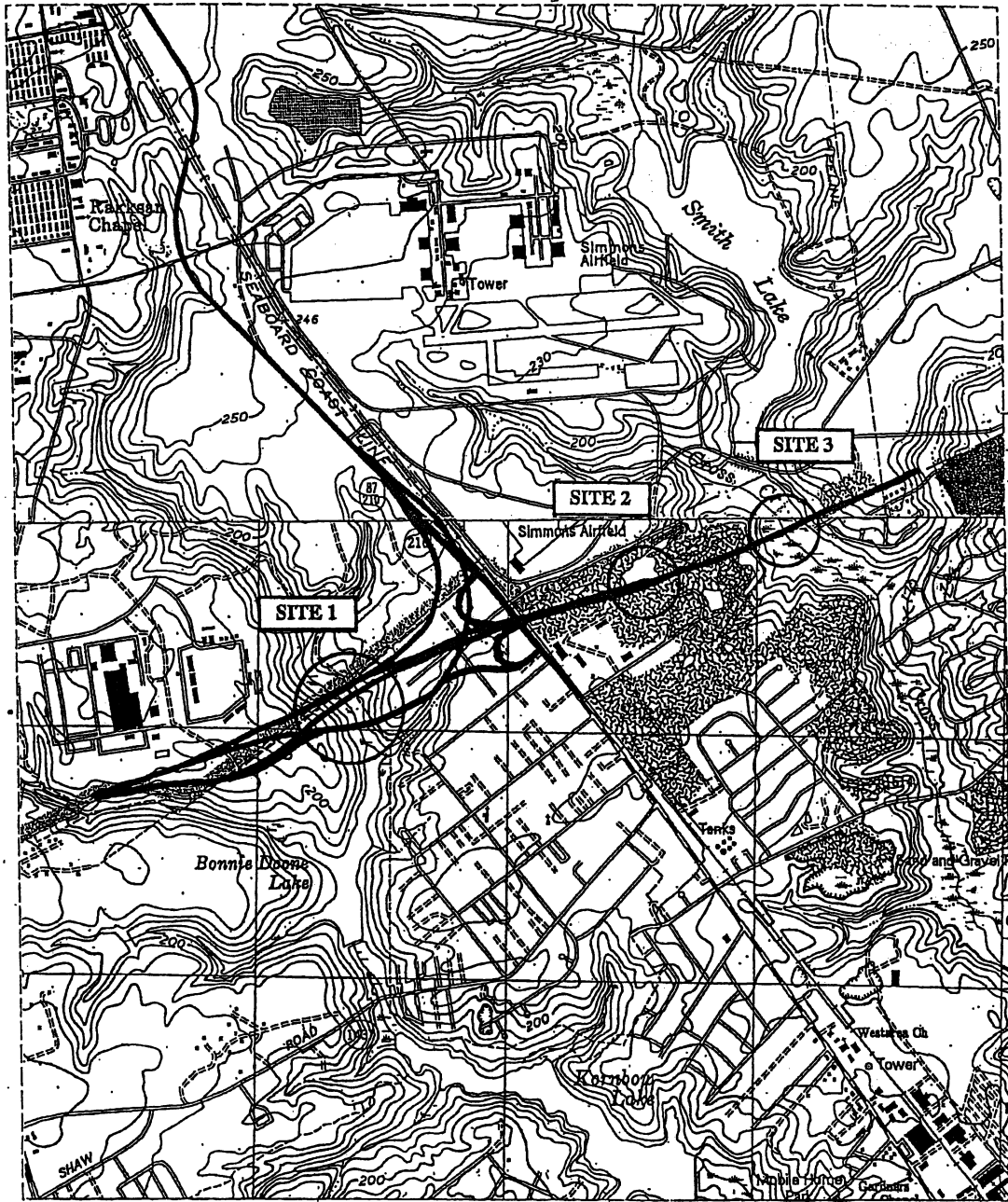
WQC No 3758



N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 PROJECT: 35196.13 (X-0002B)
 FAYETTEVILLE OUTER LOOP
 FROM EAST OF NC 24 (BRAGG BLVD.)
 TO 174 km EAST OF
 NC87/NC 210 (MURCHINSON RD.)

SHEET ___ OF ___ 04/11/07

Permit Drawing
Sheet 1 of 29


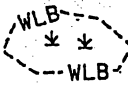



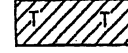
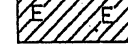
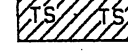
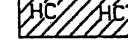

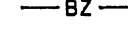
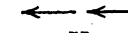
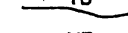
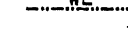
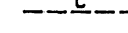
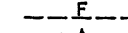

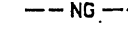
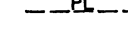
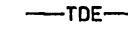
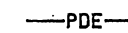
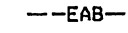
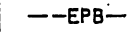
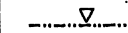
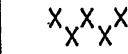




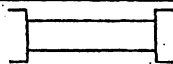
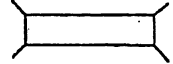

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY
PROJECT: 35196.13 (X-0002B)
FAYETTEVILLE OUTER LOOP
FROM EAST OF NC 24 (BRAGG BLVD.)
TO 1.74 km EAST OF
NC87/NC 210 (MURCHINSON RD.)

SHEET ___ OF ___ 04/11/07




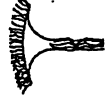


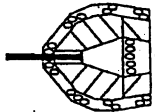
Permit Drawing
Sheet 2 of 29

LEGEND

-  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 HAND CLEARING
-  DENOTES MECHANIZED CLEARING
-  RIPARIAN BUFFER ZONE
-  FLOW DIRECTION
-  TOP OF BANK
-  EDGE OF WATER
-  PROP. LIMIT OF CUT
-  PROP. LIMIT OF FILL
-  PROP. RIGHT OF WAY
-  NATURAL GROUND
-  PROPERTY LINE
-  TEMP. DRAINAGE EASEMENT
-  PERMANENT DRAINAGE EASEMENT
-  EXIST. ENDANGERED ANIMAL BOUNDARY
-  EXIST. ENDANGERED PLANT BOUNDARY
-  WATER SURFACE
-  LIVE STAKES
-  BOULDER
-  COIR FIBER ROLLS

-  PROPOSED BRIDGE
-  PROPOSED BOX CULVERT
-  PROPOSED PIPE CULVERT

(DASHED LINES DENOTE EXISTING STRUCTURES)

-  SINGLE TREE
-  WOODS LINE
-  DRAINAGE INLET
-  ROOTWAD
-  RIP RAP
-  ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE
-  RIP RAP ENERGY DISSIPATOR BASIN

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 PROJECT: 35196.13 (X-0002B)
 FAYETTEVILLE OUTER LOOP
 FROM EAST OF NC 24 (BRAGG BLVD.)
 TO 1.74 km EAST OF
 NC87/NC 210 (MURCHINSON RD.)

SHEET _____ OF _____ 04/11/07

Project No. 35196.1.3 (X-0002B)

Property Owner List

Parcel Number	Name	Address
1	United States of America Fort Bragg Military Reservation	Fort Bragg, Fayetteville
2	City of Fayetteville	433 Hay St. Fayetteville, NC 28301
31	Crowell Constructors, Inc.	6050 Murchison Rd. Fayetteville, NC 28311

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 PROJECT: 35196.1.3 (X-0002B)
 FAYETTEVILLE OUTER LOOP
 FROM EAST OF NC 21 (BRAGG BLVD)
 TO 1.74 km EAST OF
 NC87/NC 210 (MURCHINSON RD)

SHEET ____ OF ____ 04/11/07

Permit Drawing
 Sheet 4 of 29

WETLAND PERMIT IMPACT SUMMARY																
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS								
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)				
1a	-TT7- 21+44 / 22+24		-	-	-	-	-	0.22	-	-	-	-	-	-	-	-
1b	-L- 57+45 / 58+84	Work Bridge	-	-	-	-	-	1.42	-	-	-	-	-	-	-	-
1c	-FLYOVER- 16+28 / 17+04	Work Bridge	-	-	-	-	-	0.59	-	-	-	-	-	-	-	-
2	-L- 71+53 / 73+84	Roadway Fill	-	-	-	-	-	-	-	0.11	-	-	-	213.3	-	-
3	-L- 76+32 / 78+57	Work Bridge	-	-	-	-	-	1.59	-	-	-	-	-	-	-	-
TOTALS:			0.00	0.00	0.00	0.00	0.00	3.82	0.11	0.00	0.00	213	0	0	0	0

The work bridge from Site 1a was removed. The proposed bridge will be built using top down construction.

A Total Impact of 0.01 acres is anticipated due to bridge pair construction.

The permanent surface water impact due to the pond at Site 2 is 2.58 Acres.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 PROJECT 35196.1.3 (X-0002B)

SHEET OF 4/10/2008

Permit Drawing
 Sheet 51 of 29

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS							
			Permanent Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation in Wetlands (ha)	Mechanized Clearing in Wetlands (ha)	Hand Clearing in Wetlands (ha)	Permanent SW Impacts (ha)	Temp. SW Impacts (ha)	Existing Channel Impacts Permanent (m)	Existing Channel Impacts Temp. (m)	Natural Stream Design (m)			
1a	-TT7- 21+44 / 22+24		-	-	-	-	0.09	-	-	-	-	-	-	-	-
1b	-L- 57+45 / 58+84	Work Bridge	-	-	-	-	0.57	-	-	-	-	-	-	-	-
1c	-FLYOVER- 16+28 / 17+04	Work Bridge	-	-	-	-	0.24	-	-	-	-	-	-	-	-
2	-L- 71+53 / 73+84	Roadway Fill	-	-	-	-	-	-	0.04	-	-	65.0	-	-	-
3	-L- 76+32 / 78+57	Work Bridge	-	-	-	-	0.64	-	-	-	-	-	-	-	-
TOTALS:			0.00	0.00	0.00	0.00	1.54	0.04	0.00	0.00	65	0	0	0	0

The work bridge from Site 1a was removed. The proposed bridge will be built using top down construction.

A Total Impact of < 0.01 ha is anticipated due to bridge pair construction.

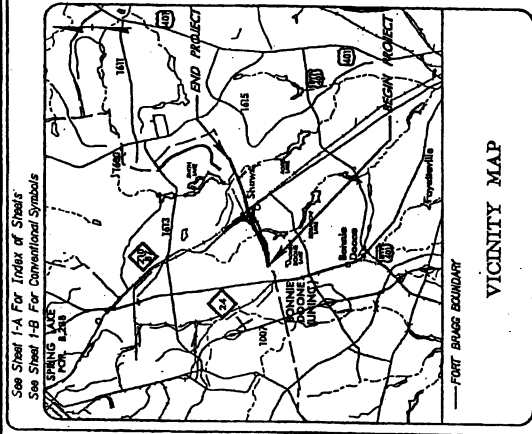
The permanent surface water impact due to the pond at Site 2 is 1.04 ha.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 PROJECT 35196.1.3 (X-0002B)

SHEET OF 4/10/2008

Permit Drawing
 Sheet 5b of 29

CONTRACT: TIP PROJECT: X-0002B



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

CUMBERLAND COUNTY

LOCATION: FAYETTEVILLE OUTER LOOP FROM EAST
OF NC 24 (BRAGG BLVD.) TO 1.74 km EAST
OF NC 87 / NC 210 (MURCHISON RD.)

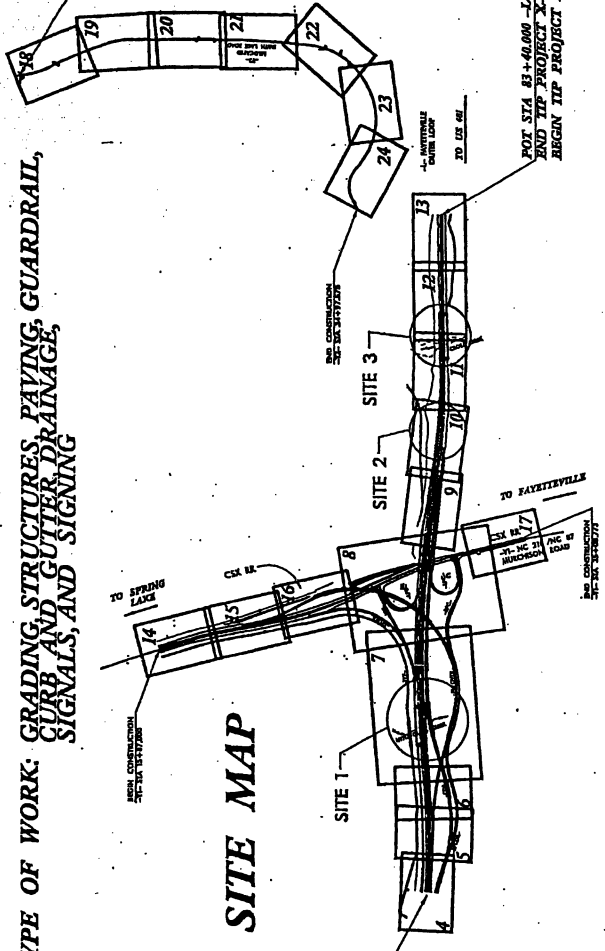
TYPE OF WORK: GRADING STRUCTURES, PAVING, GUARDRAIL,
CURB AND GUTTER, DRAINAGE,
SIGNALS, AND SIGNING

STATE	N.C.	PROJECT NUMBER	X-0002B	SHEET	1
DATE	3/15/13	DATE	3/15/13	DATE	3/15/13
BY	3/15/13	BY	3/15/13	BY	3/15/13
CHKD	3/15/13	CHKD	3/15/13	CHKD	3/15/13
APP'D	3/15/13	APP'D	3/15/13	APP'D	3/15/13
DESIGNED BY	NVE-DTE-0100(002)				
DRAWN BY	EDW/LJH				

METRICS

ALL DIMENSIONS IN THESE PLANS ARE IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

Permit Drawing
Sheet 0 of 21



X-0002B: WETLAND SITE MAP

POT STA. 89+40.000 -X-
BEGIN TIP PROJECT X-0002B
END TIP PROJECT U-2101DA

CAUTION: ON THIS PROJECT SCALE, NO
DIMENSIONS ARE TO BE TAKEN FROM
THIS DRAWING FOR ANY OTHER
PURPOSE. ALL DIMENSIONS SHALL BE
AS SHOWN ON THIS DRAWING.

NOTE: THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS LIMITED TO INTERCHANGES

<p>GRAPHIC SCALE</p> <p>5 0 10 PLANS</p> <p>5 0 10 PROFILE (HORIZONTAL)</p> <p>1 0 2 PROFILE (VERTICAL)</p>	<p>DESIGN DATA</p> <p>ADT 2008 = 57,500 ADT 2030 = 74,300</p> <p>DRY = 9 % D = 55 % T = 12 % *</p> <p>V = 110 km/h * I1ST 4% + DUAL 8% FUNC. CLASS = INTERSTATE</p>
--	--

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF FAYETTEVILLE

PROJECT LENGTH

LENGTH OF ROADWAY, TIP PROJECT X-0002B = 2.879 km
LENGTH OF STRUCTURES, TIP PROJECT X-0002B = 0.481 km
TOTAL LENGTH, TIP PROJECT X-0002B = 3.360 km

*NOTE: LENGTH BASED ON WBL BRIDGES

Prepared in the Office of
Ralph Whitehead Associates, Inc.
FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

THE STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: May 31, 2006
PROJECT ARCHITECT: JOSEPH JOHNSON, P.E.

LETTING DATE: June 11, 2008
PROJECT DESIGN ARCHITECT: JOSEPH FREEMAN, P.E.

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PUBLIC WORKS DIVISION



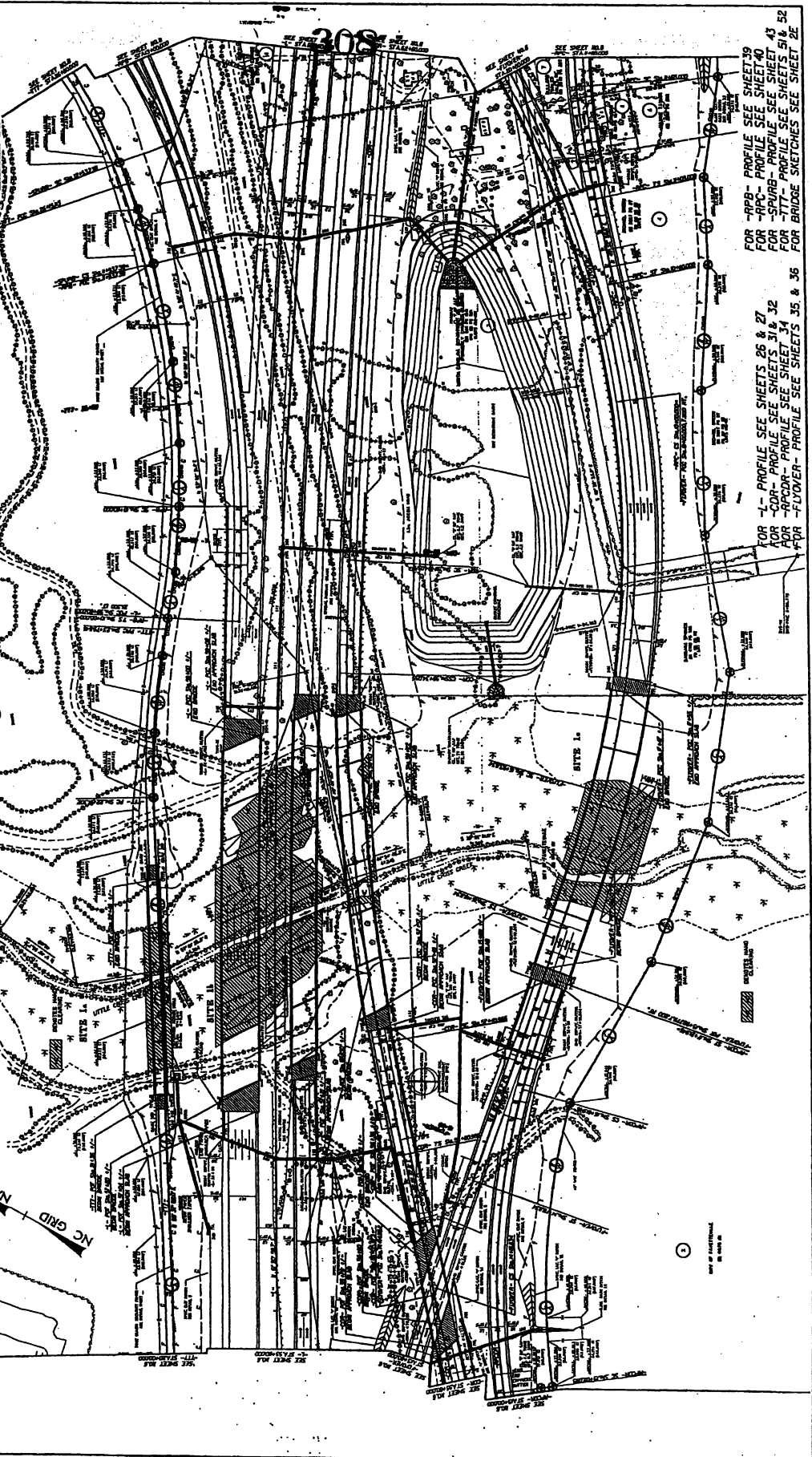
307

PROJECT REFERENCE NO. SHEET NO.
 X-4002 7
 1 OF SHEET NO. PRELIMINARY PLANS
 LOCATION DESIGN PROPOSALS
 BRIDGE

PRELIMINARY PLANS
 INCOMPLETE PLANS
 NOT TO BE USED FOR CONSTRUCTION
 Permit Drawing
 Sheet 7 of 11
 W
 TALKER ENGINEERING ASSOCIATES
 CONSULTING ENGINEERS
 1400 WEST 10TH AVENUE
 CHARLOTTE, NORTH CAROLINA 28202

CONSTANT
 1" = 100'
 1" = 100'

REVISIONS



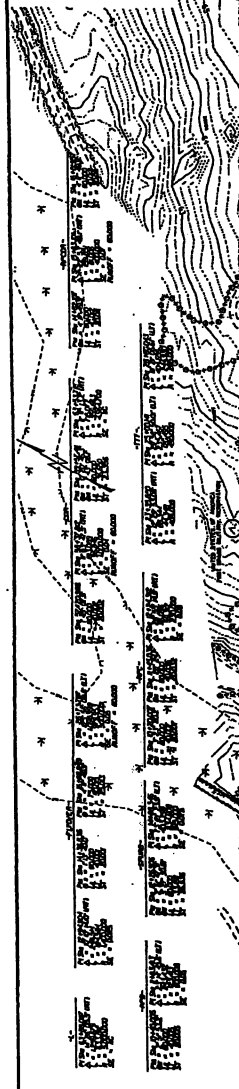
FOR -RPB- PROFILE SEE SHEET 39
 FOR -RPC- PROFILE SEE SHEET 40
 FOR -SPURB- PROFILE SEE SHEET 43
 FOR -RFB- PROFILE SEE SHEET 52
 FOR BRIDGE SKETCHES SEE SHEET 28

FOR -L- PROFILE SEE SHEETS 28 & 27
 FOR -COR- PROFILE SEE SHEETS 31 & 32
 FOR -RCCOR- PROFILE SEE SHEET 34
 FOR -FLOWER- PROFILE SEE SHEETS 35 & 36

DATE OF PUBLICATION
 11/11/2011

PROJECT REFERENCE NO. SHEET NO. 7
 L.V. SHEET NO. HYDRAULICS ENGINEER
 ROADWAY DESIGN ENGINEER
 PRELIMINARY PLANS INCOMPLETE PLANS FOR THE U.S. DEPARTMENT OF TRANSPORTATION
 Permit Drawing
 Sheet R of 29
 W
 CONSULTING ENGINEER
 100 N. 10TH ST. SUITE 200
 CHARLOTTE, NORTH CAROLINA, 28202

METRIC
 1" = 100'
 CONSTANT
 1/4" = 100'



REVISIONS



309

FOR PROFILE SEE SHEET 39
 FOR PROFILE SEE SHEET 40
 FOR PROFILE SEE SHEET 41
 FOR PROFILE SEE SHEET 42
 FOR PROFILE SEE SHEET 43
 FOR PROFILE SEE SHEET 44
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 FOR PROFILE SEE SHEET 100

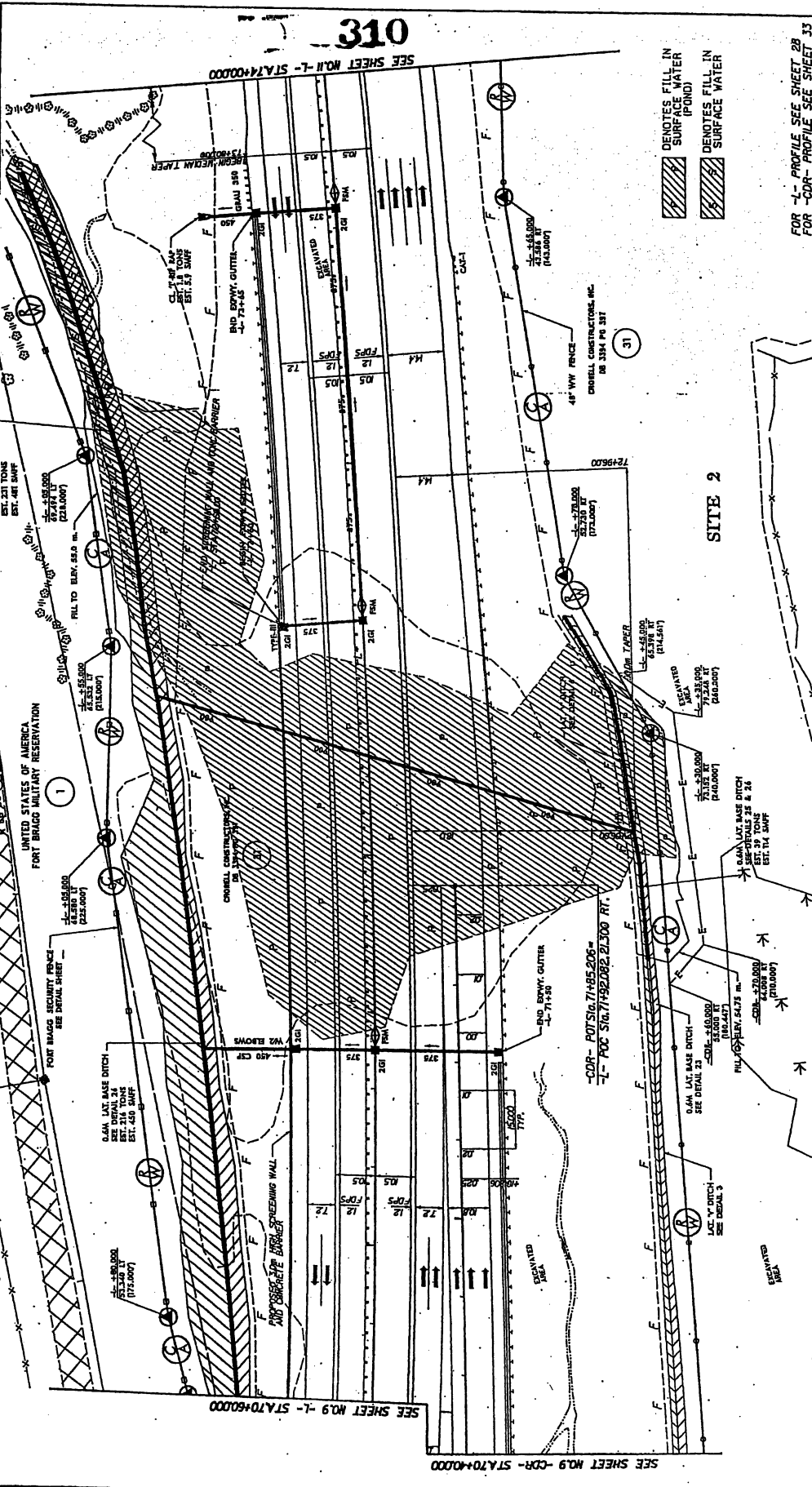
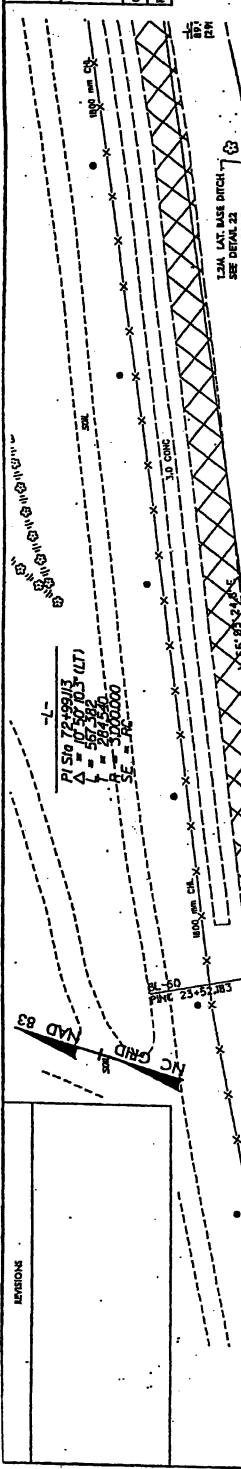
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DATE OF PUBLICATION
 10/1/88

PROJECT REFERENCE NO. SHEET NO. 10
 DRAWING NO. 10
 ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER
 PRELIMINARY PLANS
 INCOMPLETE PLANS
 PERMIT DRAWING
 Sheet 9 of 29
 ALLIANCE PARTNERS ASSOCIATED CONSULTING ENGINEERS
 10000 N. 100th St., Suite 100
 Edina, MN 55424
 CONTRACTOR
 R/W REV.

METRIC

 CONSTANT
 R/W REV.



310
 SEE SHEET NO. 11 - L- STA. 74+0000

SEE SHEET NO. 9 - L- STA. 70+5000

SEE SHEET NO. 9 - CDR - STA. 70+0000

DIAGONAL HATCHING
 DENOTES FILL IN SURFACE WATER (POND)
 HORIZONTAL HATCHING
 DENOTES FILL IN SURFACE WATER

SITE 2

FOR -L- PROFILE SEE SHEET 28
 FOR -CDR- PROFILE SEE SHEET 33

PROJECT REFERENCE NO. X-0028 SHEET NO. 12

EDUCATION DESIGN DIVISION

PERMIT DRAWING

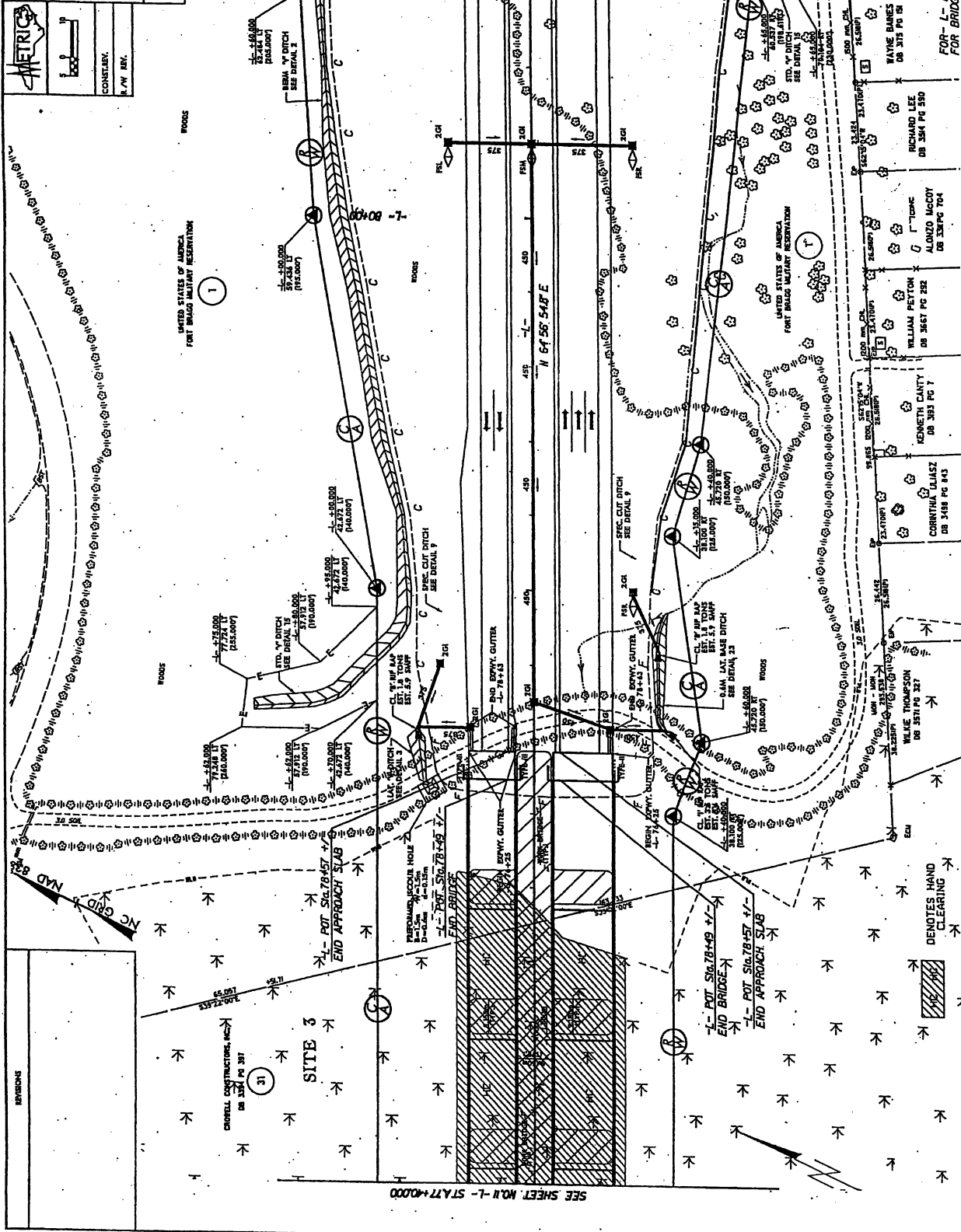
PERMIT NO. 12 of 21

WALTON ENGINEERING ARCHITECTS CONSULTANTS ENGINEERS 1401 N.W. 24th St. MIAMI, FL 33135

CONTRACTOR: F.W. BEK

PRELIMINARY PLANS INCOMPLETE PLANS

314



SEE SHEET NO. 1-1-STA 7+00.00

SEE SHEET NO. 1-1-STA 80+80.00

FOR - I - PROFILE SEE SHEET 29 FOR - BRIDGE SKETCHES. SEE SHEET 2E

REVISIONS

CHANCELL CONSTRUCTION, INC. DB 334 PG 317

SITE 3

END APPROACH SLAB

END BRIDGE

END BRIDGE +1/2

END APPROACH SLAB

END BRIDGE

END BRIDGE +1/2

END APPROACH SLAB

END BRIDGE

END BRIDGE +1/2

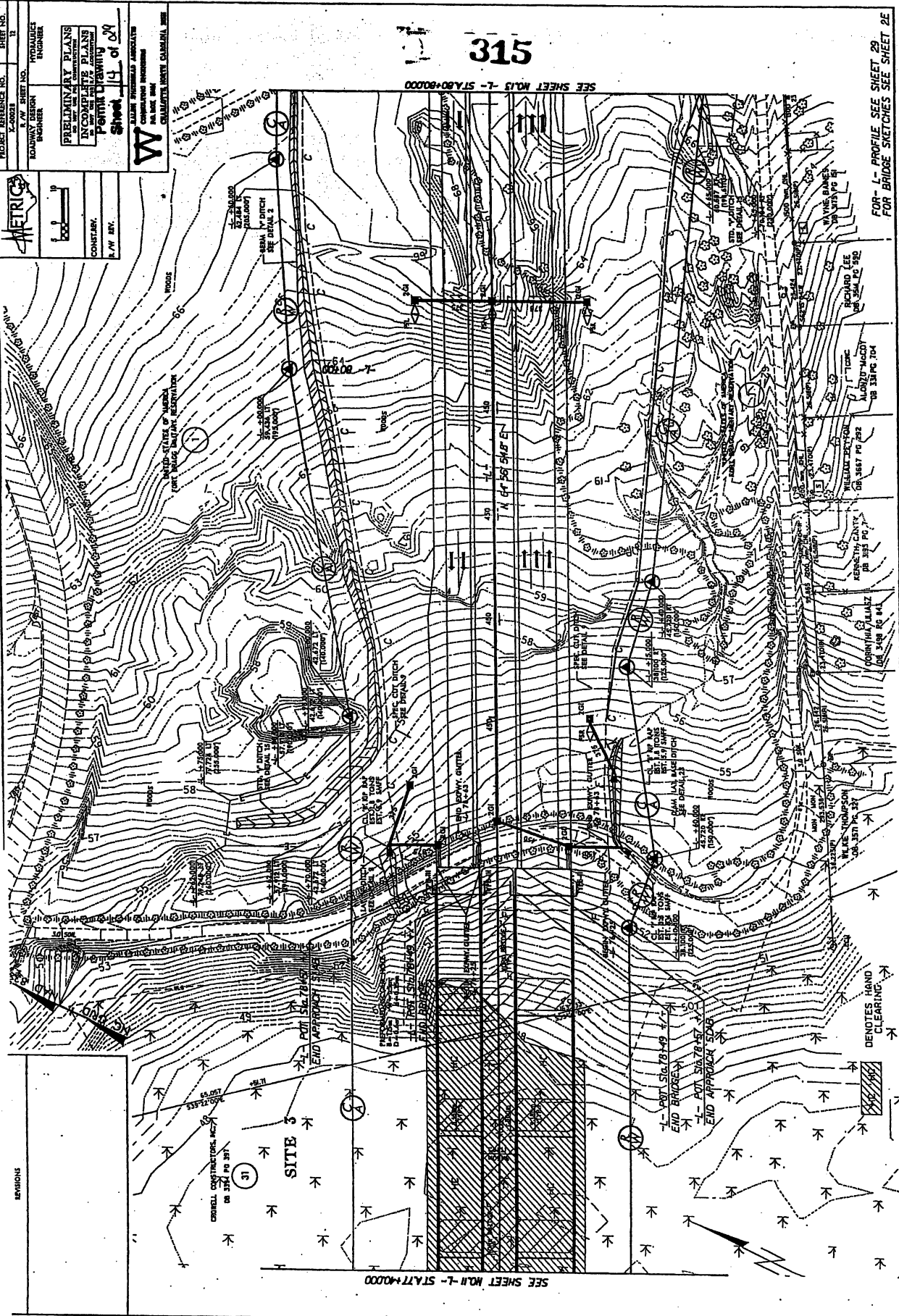
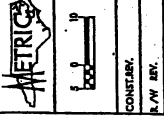
END APPROACH SLAB

END BRIDGE

END BRIDGE +1/2

END APPROACH SLAB

PROJECT REFERENCE NO.	SHEET NO.
2-00001	11
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER
PRELIMINARY PLANS	
INCOMPLETE PLANS	
PERMIT DRAWING	
Sheet 11 of 20	
W	
STATE REGISTERED ARCHITECT	
CONSULTING ENGINEER	
PAUL W. BIRN	
CREVIERVILLE, MISSOURI	



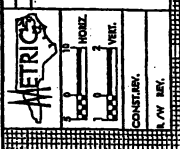
FOR L-7 PROFILE SEE SHEET 29
FOR BRIDGE SKETCHES SEE SHEET 28

REVISIONS

31
SITE 3
CORRECTION TO SHEET NO. 31

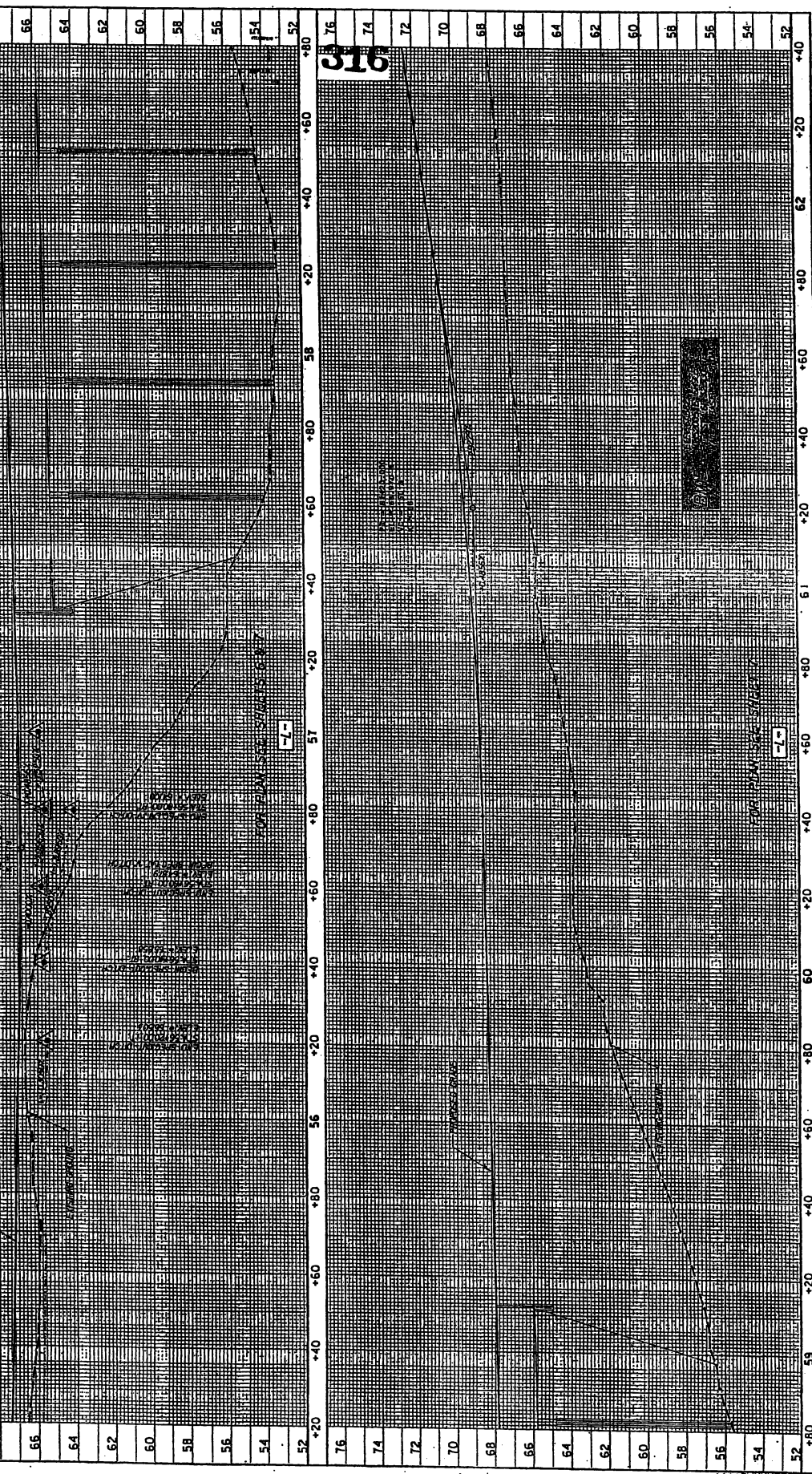
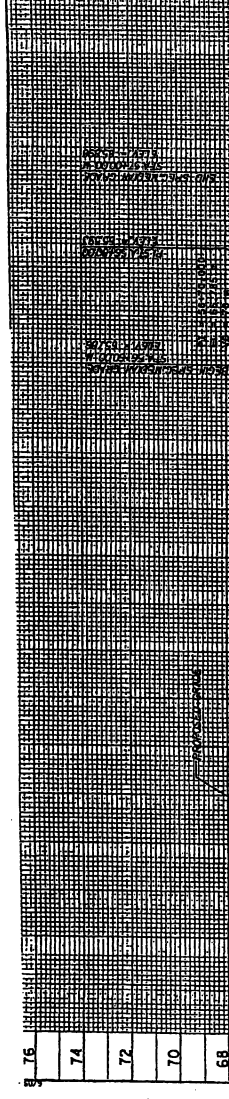
DEOTES LAND CLEARING

PROJECT REFERENCE NO. SHEET NO. 15 OF 24
 ROADWAY DESIGN ENGINEER
 HYDRAULIC ENGINEER

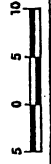


BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	214 CFS	DATE OF SURVEY	1-1-05
DESIGN FREQUENCY	50 YRS	W.S. ELEVATION AT DATE OF SURVEY	53.34 M
DESIGN HW ELEVATION	54.62 M	X OVERTOPPING IS GREATER THAN 500+ YR EVENT	
BASE DISCHARGE	100 CFS		
BASE FREQUENCY	100 YRS		
BASE HW ELEVATION	54.69 M		
OVERTOPPING DISCHARGE	2500 YRS		
OVERTOPPING HW ELEVATION	56.290 M		

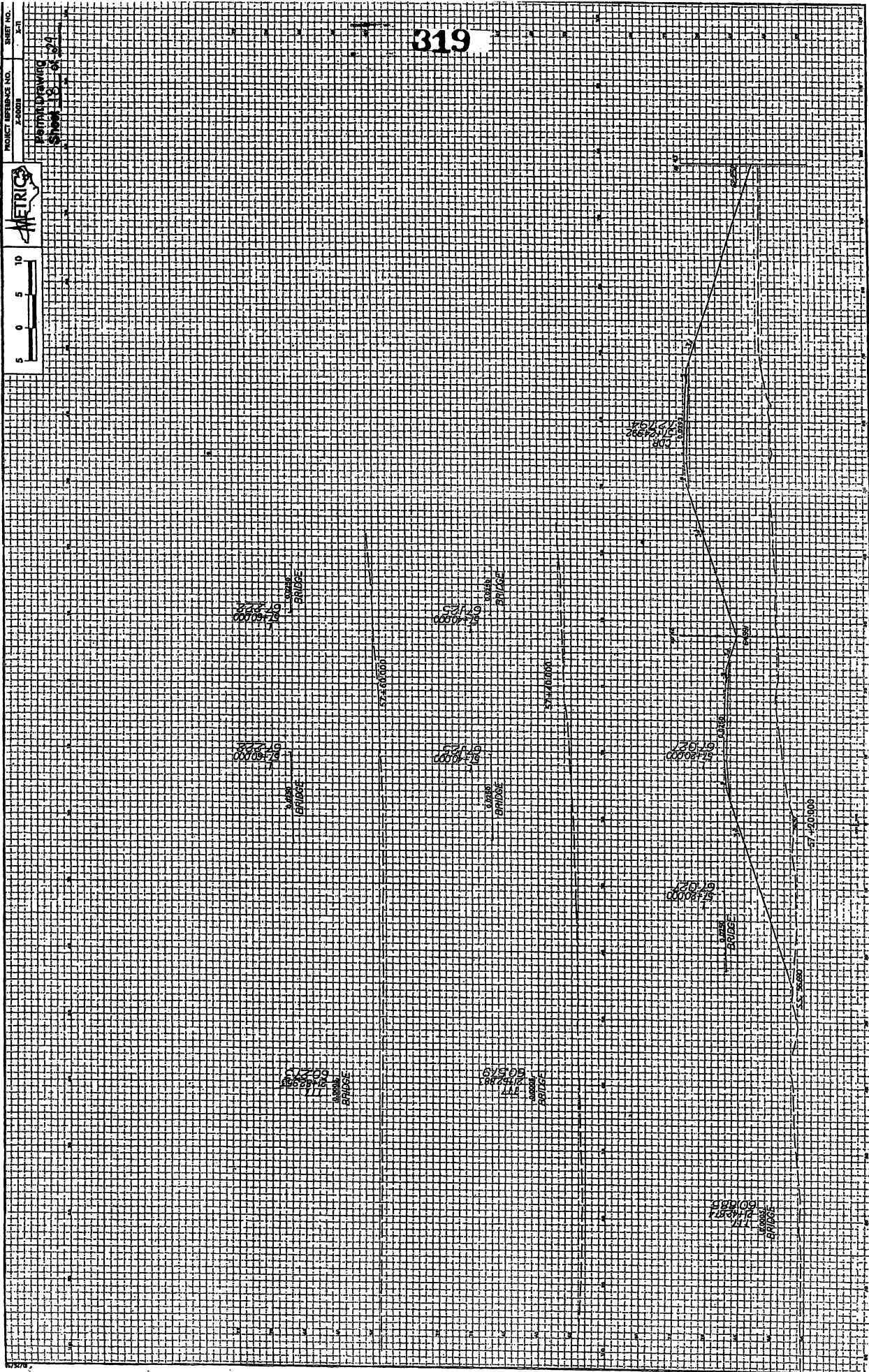


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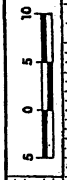


PROJECT REFERENCE NO. 2-0000
SHEET NO. 2-1

Planning Drawing
Sheet 13 of 24



PROJECT REFERENCE NO. 1-2008
SHEET NO. 1-32



Partial Drawing
SHEET 10 OF 20

320

17807
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BRIDGE

71807
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BRIDGE

91810
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BRIDGE

61810
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BRIDGE

31810
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BRIDGE

61810
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BRIDGE

51805
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BRIDGE

61805
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BRIDGE

57480-000

PROJECT REFERENCE NO. SHEET NO.

233

Permit Drawing
Sheet 233 of 233



321



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58+10.000

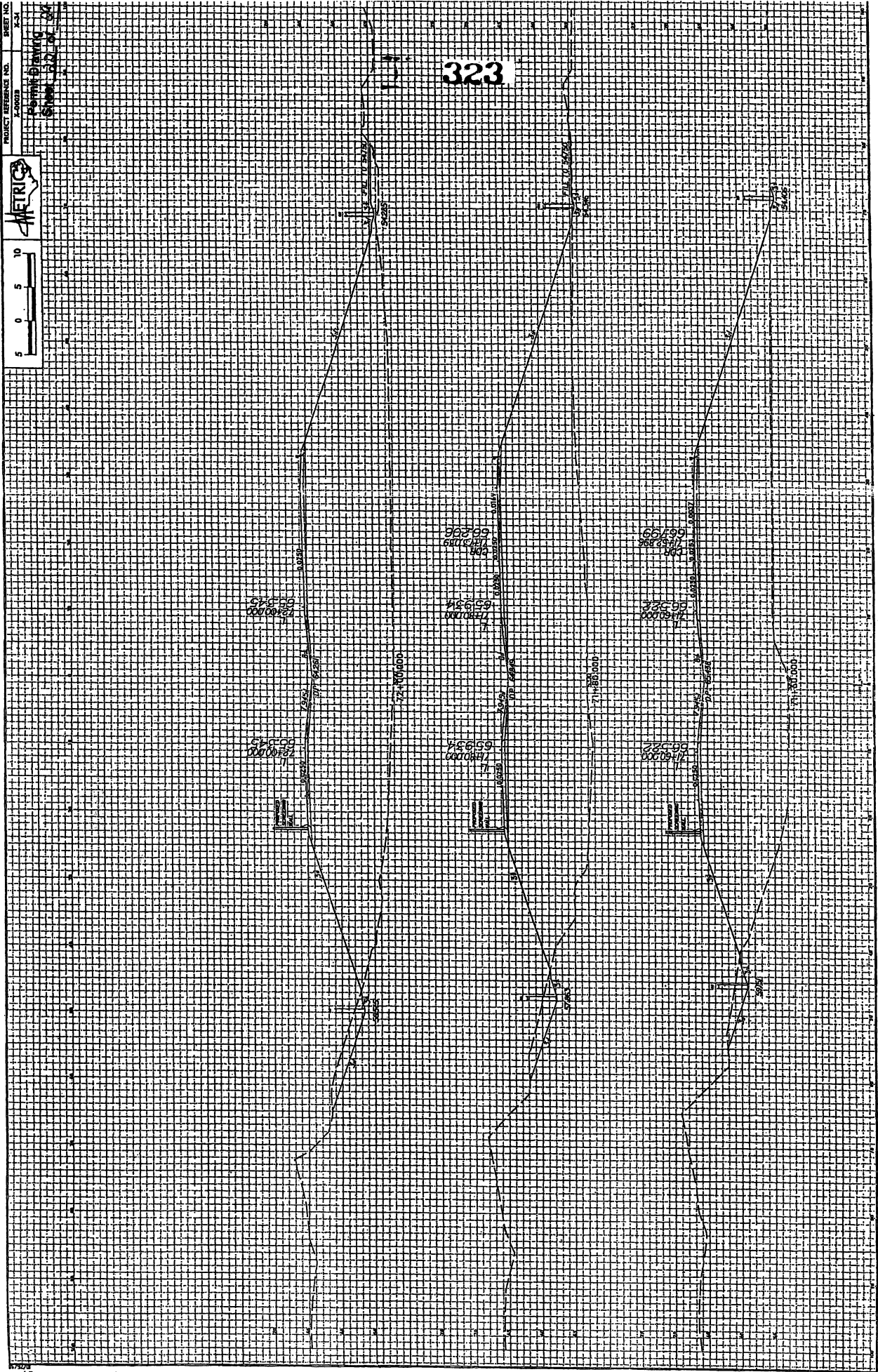
58+70.000

58+40.000

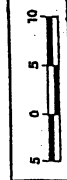
PROJECT REFERENCE NO. 2-0003
SHEET NO. 2-4
DRAWING DRAWING
DATE 02/20/04



323



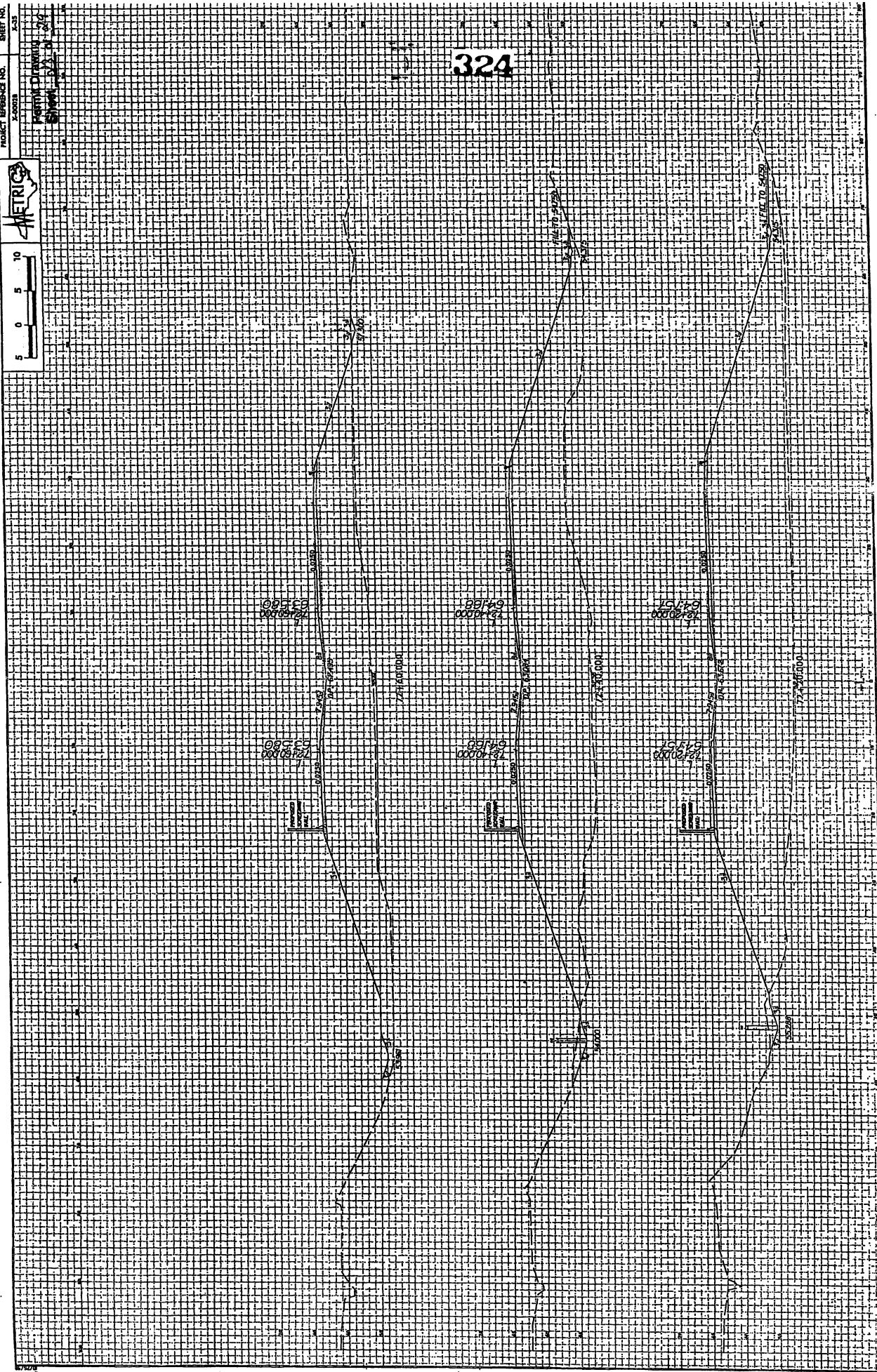
PROJECT REFERENCE NO. X-00018



SHEET NO. X-35

PROPERTY INFORMATION
SHEET 21 OF 24

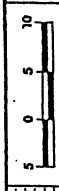
324



PROJECT REFERENCE NO. K-0000

SHEET NO. 4-3

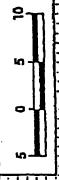
Survey Drawing
Sheet 4-3 of 4



325

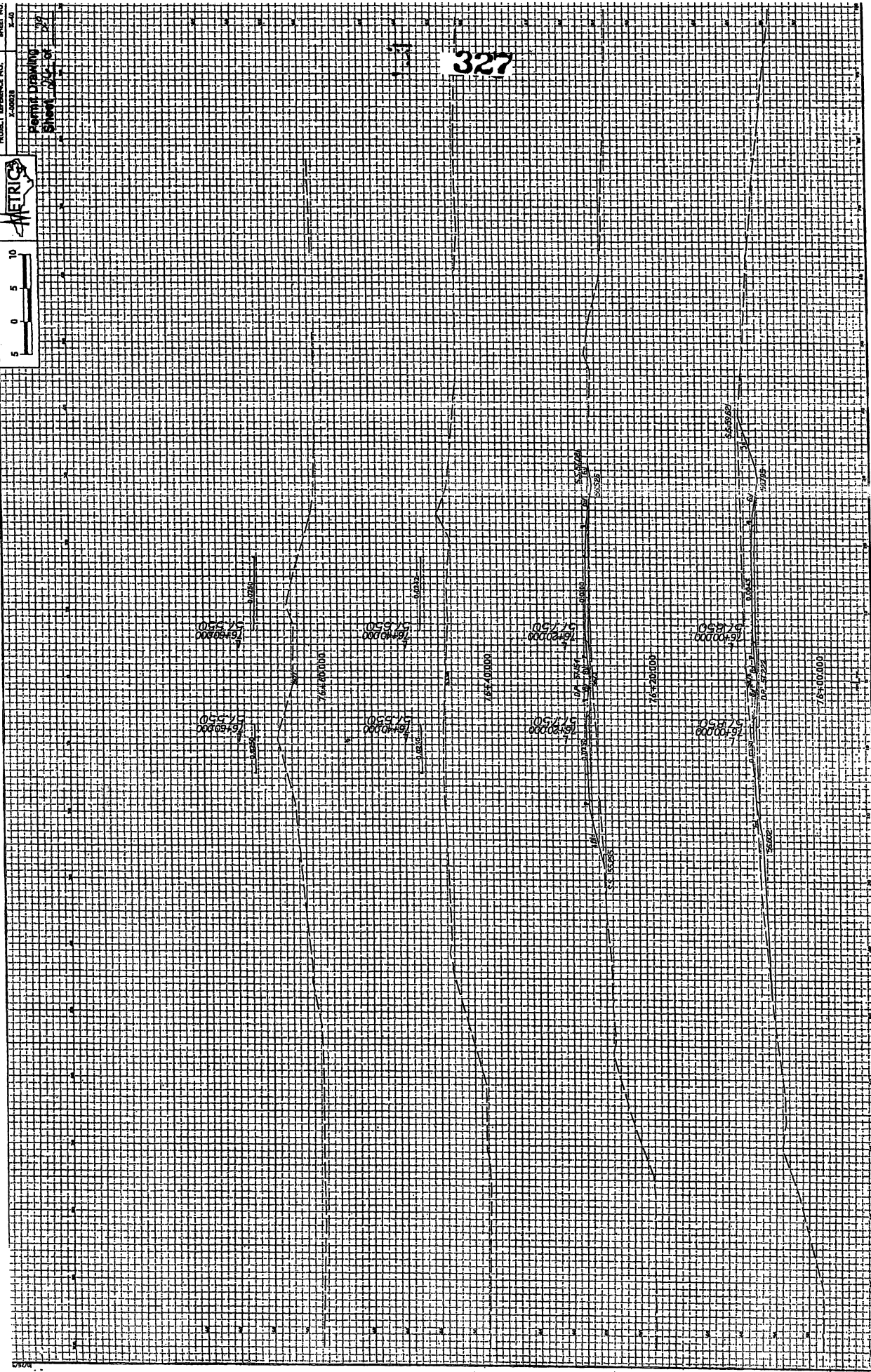


PROJECT REFERENCE NO. SHEET NO.
2-40

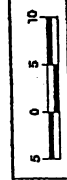


Permit Drawing
Sheet 202-5

327



PROJECT REFERENCE NO. X-00001



SHEET NO. X-1

PAVING CONTRACT
Sheet 27 of 52

328

05615
000047

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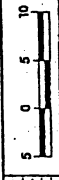
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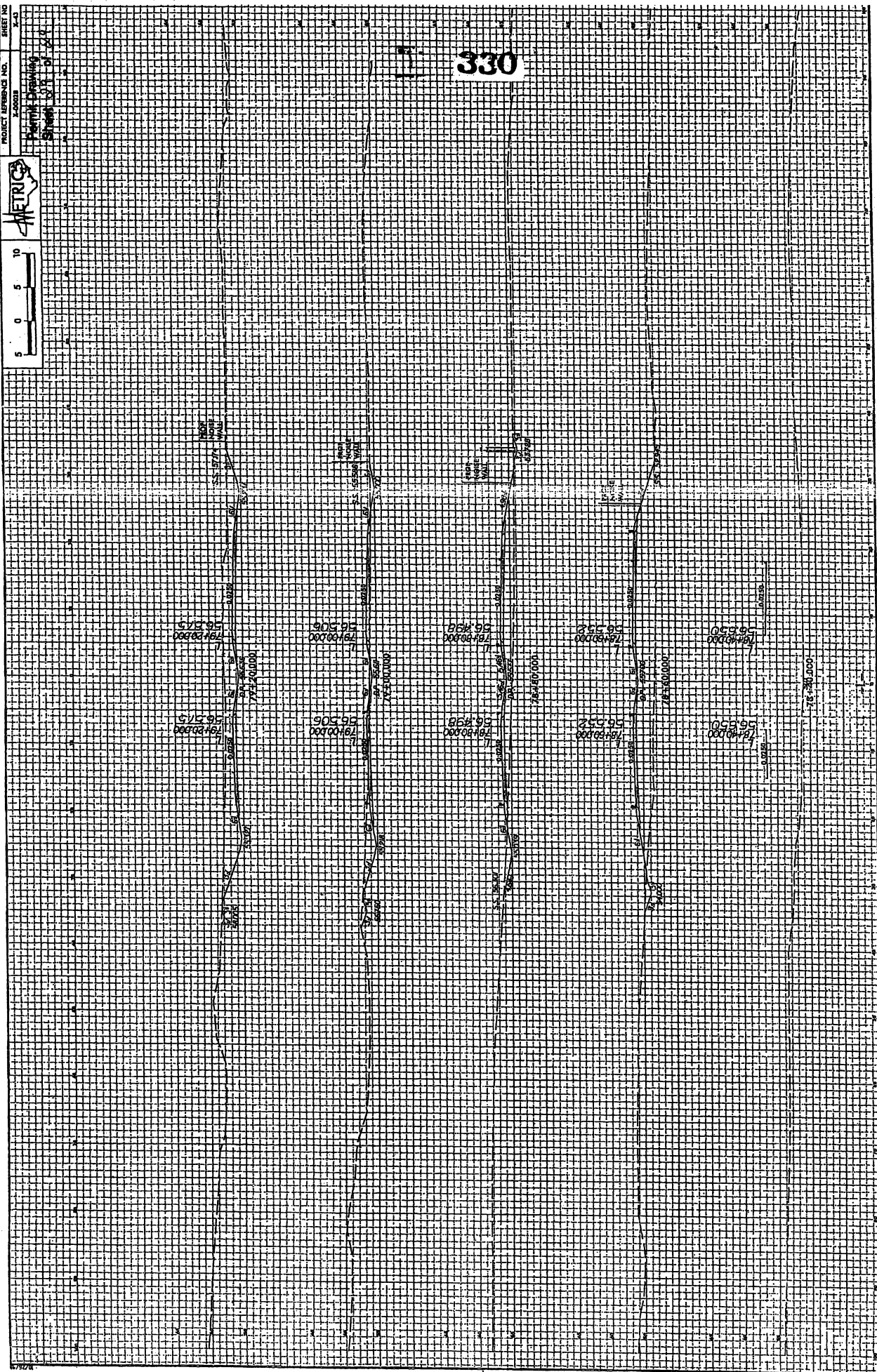
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77-000001

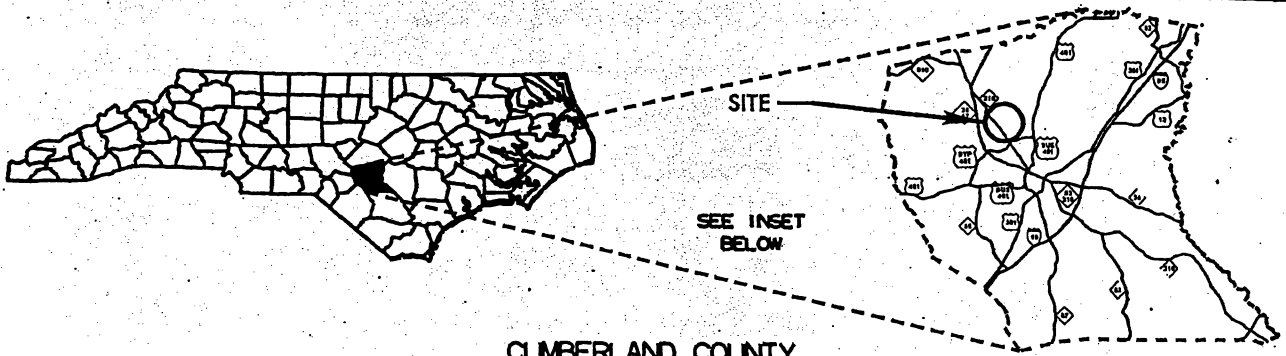
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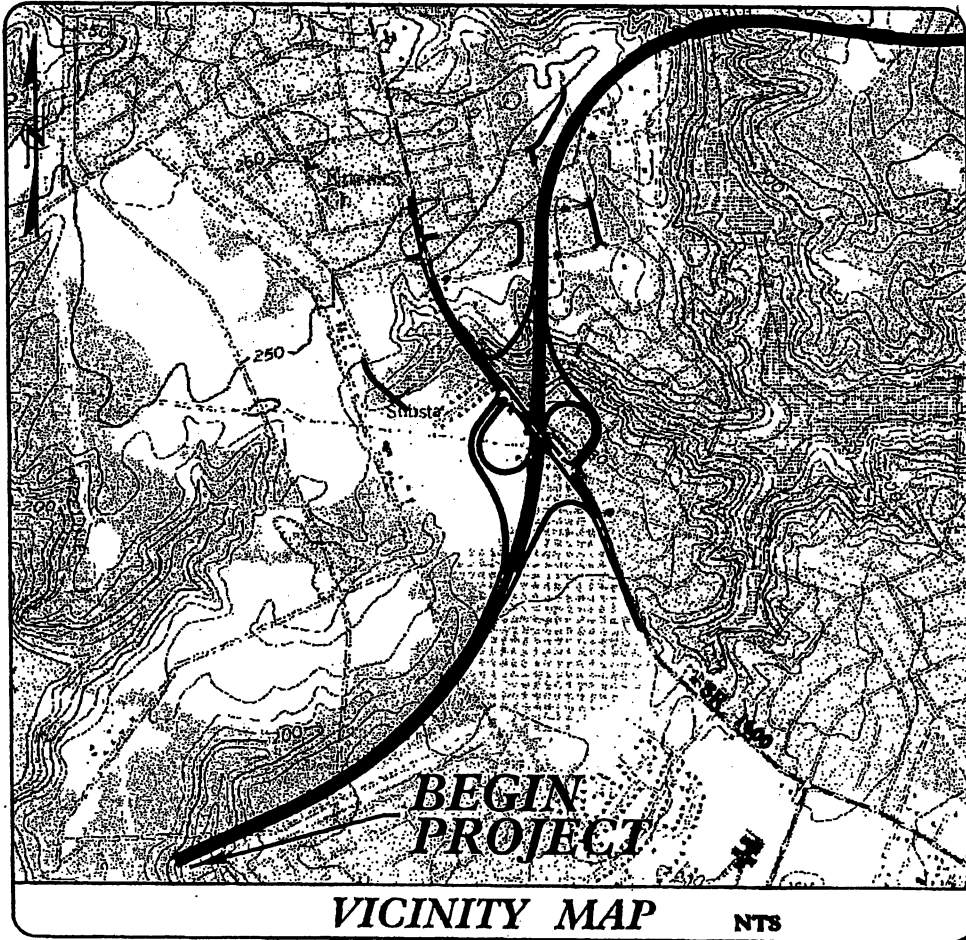
330



331



CUMBERLAND COUNTY



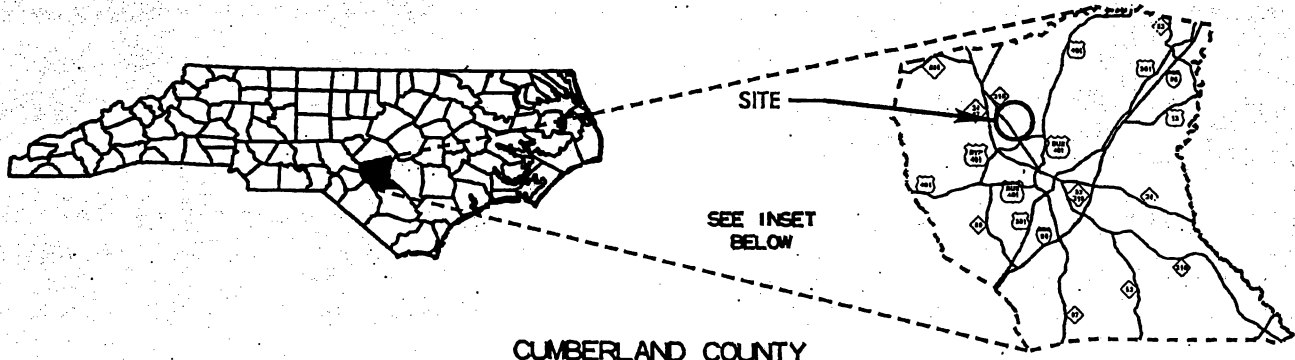
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY
PROJECT: 33196.12 (X-0002C)
FAYETTEVILLE OUTER LOOP
FROM 2.09th EAST OF
NC 87-NC 210 TO US 401

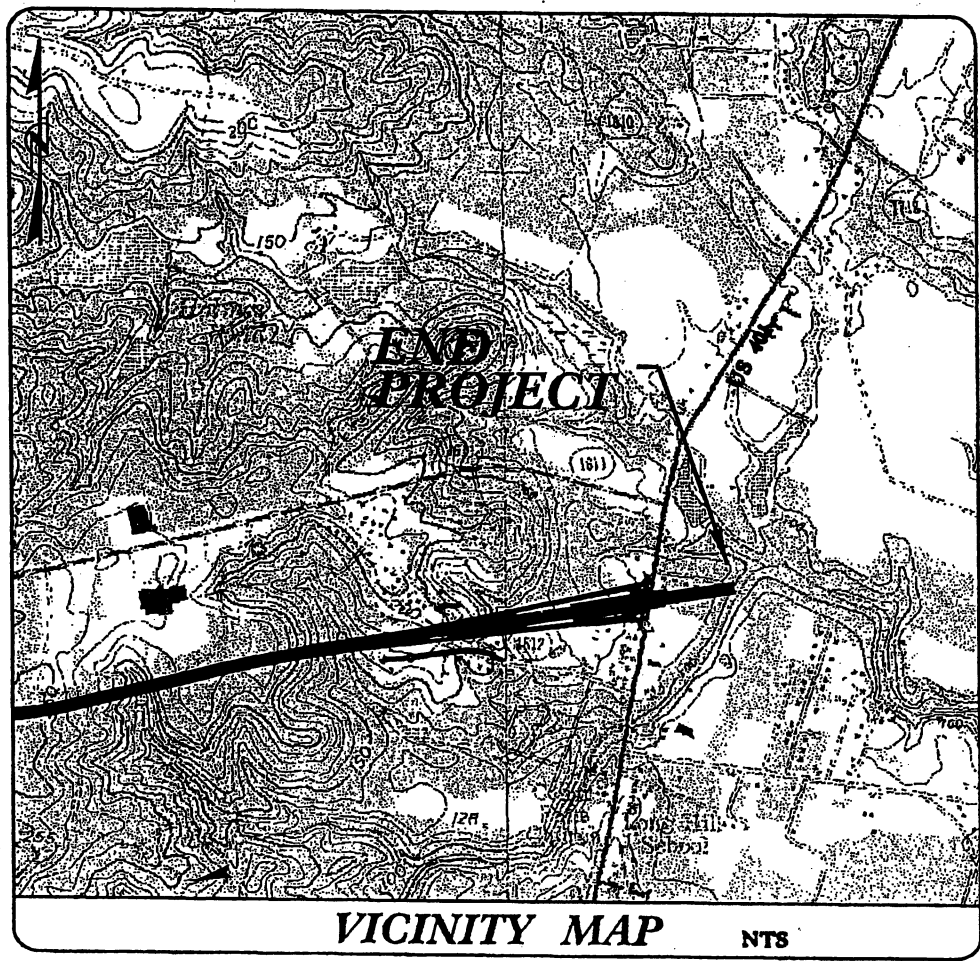
SHEET 1 OF 2

12/7/07

Permit Drawing
Sheet 1 of 64



CUMBERLAND COUNTY



N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY
PROJECT: 36196.13 (X-0002C)
FAYETTEVILLE OUTER LOOP
FROM 2.09th EAST OF
NC 87-NC 210 TO US 401

SHEET 2 OF 2 12/7/07

Permit Drawing
Sheet 2 of 64

WETLAND PERMIT IMPACT SUMMARY											
WETLAND IMPACTS					SURFACE WATER IMPACTS						
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing In Wetlands (ac)	Hand Clearing In Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Natural Stream Design (ft)
1	83+50-85+00 -L-	72" RCP	1.11		0.03	0.10		0.04		279	
2	92+90-93+80 -L-	42" RCP	0.50		0.02	0.08					
3	105+15-105+70 -L-	2 @ 6' x 7' RCBC	0.76			0.05		0.72		775	
4	117+95-118+70 -L-	325' Bridge	0.36			0.08	0.55				
5	129+60-130+20 -L-	54" RCP	0.69			0.06		0.02		361	
6	135+55-137+00 -L-	60" RCP	1.68			0.09		0.04		479	
7	141+30-142+30 -L-	36" RCP	1.55			0.05		0.01		213	
8	144+45-144+90 -L-	48" RCP	0.09			0.04	0.21	0.06		509	
9	14+20 -Y-Rev	2 @ 6' x 7' RCBC						0.01		98	
TOTALS:			6.73		0.05	0.57	0.76	0.91		2715	

FILL IN SURFACE WATERS (POND)
 SITE 3: 0.60 ac
 SITE 9: Unknown Impact at this time.

Permit Drawing
 Sheet 3 of 64

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

CUMBERLAND COUNTY
 WBS - 35196.1.2 (X-0002C)

4/23/2008

SHEET

WETLAND PERMIT IMPACT SUMMARY													
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS						
			Permanent Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation in Wetlands (ha)	Mechanized Clearing in Wetlands (ha)	Hand Clearing in Wetlands (ha)	Permanent SW impacts (ha)	Temp. SW impacts (ha)	Existing Channel Impacts Permanent (m)	Natural Stream Design (m)		
1	83+50-85+00 -L-	1800 mm RCP	0.448		0.013	0.040			0.015			85	
2	92+90-93+80 -L-	1050 mm RCP	0.203		0.007	0.033							
3	105+15-105+70 -L-	2 @ 1.8m x 2.1m RCBC	0.306			0.022			0.292			236	
4	117+95-118+70 -L-	99m Bridge	0.145			0.034	0.223						
5	129+60-130+20 -L-	1350 mm RCP	0.280			0.025			0.008			110	
6	135+55-137+00 -L-	1500 mm RCP	0.680			0.038			0.018			146	
7	141+30-142+30 -L-	900 mm RCP	0.626			0.021			0.004			65	
8	144+45-144+90 -L-	1200 mm RCP	0.037			0.018	0.084		0.026			155	
9	14+20 -Y-Rev	2 @ 1.8m x 2.1m RCBC							0.004			30	
TOTALS:			2.725		0.020	0.231	0.307	0.367	827				

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 WBS - 35196.1.2 (X-0002C)
 SHEET 4/23/2008

Permit Drawing
 Sheet 4 of 6

FILL IN SURFACE WATERS (POND)
 SITE 3: 0.243 ha
 SITE 9: Unknown Impact at this time.

List of Property Owners:

Parcel No.

- 53 McKinnie, Nellie E. Evans
1324 McArthur Road
Fayetteville, NC 28311-1203
- 89 Andrews Road Company
PO Box 58329
Fayetteville, NC 28305
- 128 Coleman, W. C.
1041 Bragg Boulevard
Fayetteville, NC 28301-4511

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY
PROJECT 35196.1.2 x-0002C

Sheet of 12/7/2007

Permit Drawing
Sheet 5 of 64

DATE	STATE PROJECT NUMBER	NO.	DATE
N.C.	X-0002C	1	
PROJECT NUMBER	STATE PROJECT NUMBER	NO.	DATE
3579A.12	NH-392-000002	P.E.	
ALL DIMENSIONS IN METERS THESE PLANS ARE IN METERS			

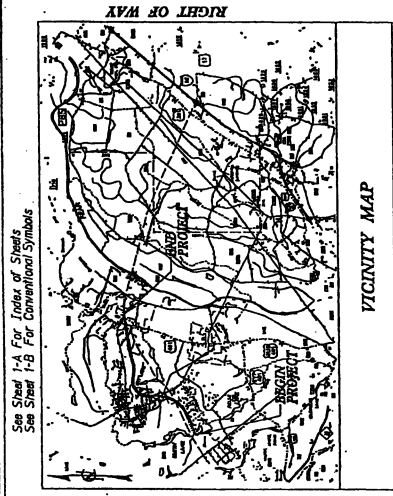


Permit Drawing
Sheet 1c of 1c4

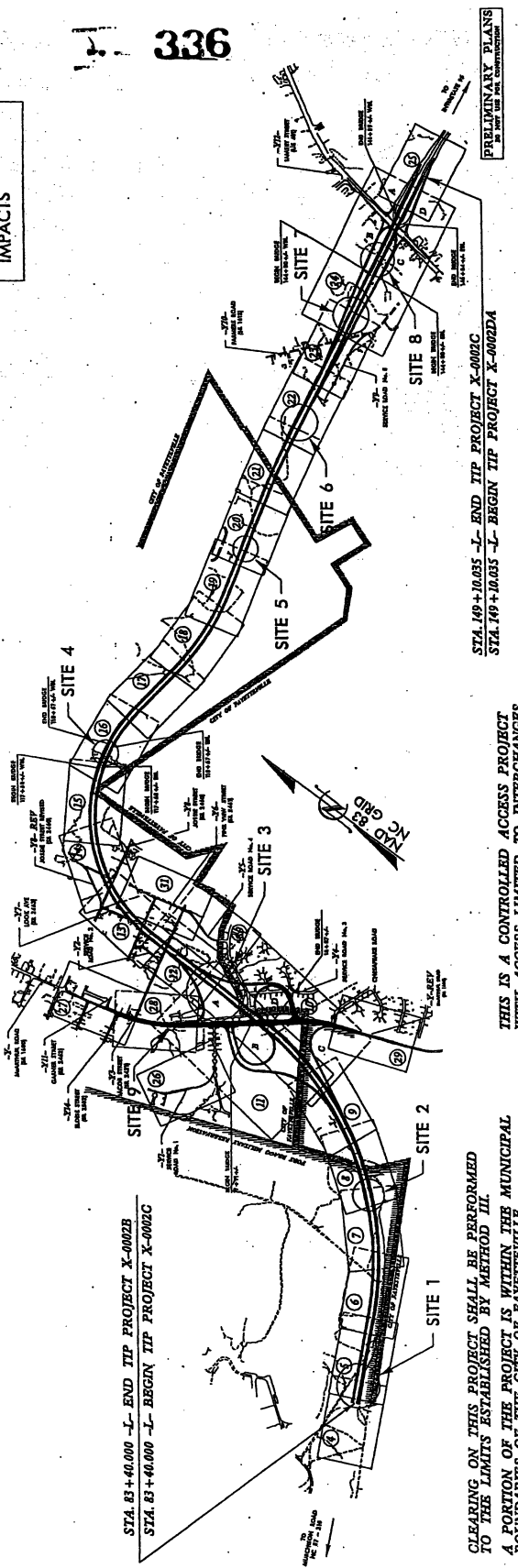
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY

LOCATION: FAYETTEVILLE OUTER LOOP FROM 2.09km EAST
OF NC87-NC210 TO US401

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING,
SIGNALS AND STRUCTURES



VICINITY MAP



WETLAND/STREAM
IMPACTS

336

STA. 49+10.05 -J- END TIP PROJECT X-0002C
STA. 79+10.05 -J- BEGIN TIP PROJECT X-0002A

THIS IS A CONTROLLED ACCESS PROJECT
WITH ACCESS LIMITED TO INTERCHANGES

CLEARING ON THIS PROJECT SHALL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD III
A PORTION OF THE PROJECT IS WITHIN THE MUNICIPAL
BOUNDARIES OF THE CITY OF FAYETTEVILLE.

STA. 83+60.000 -J- END TIP PROJECT X-0002B
STA. 83+60.000 -J- BEGIN TIP PROJECT X-0002C

PRELIMINARY PLANS
BY MEANS OF THE CONSTRUCTION

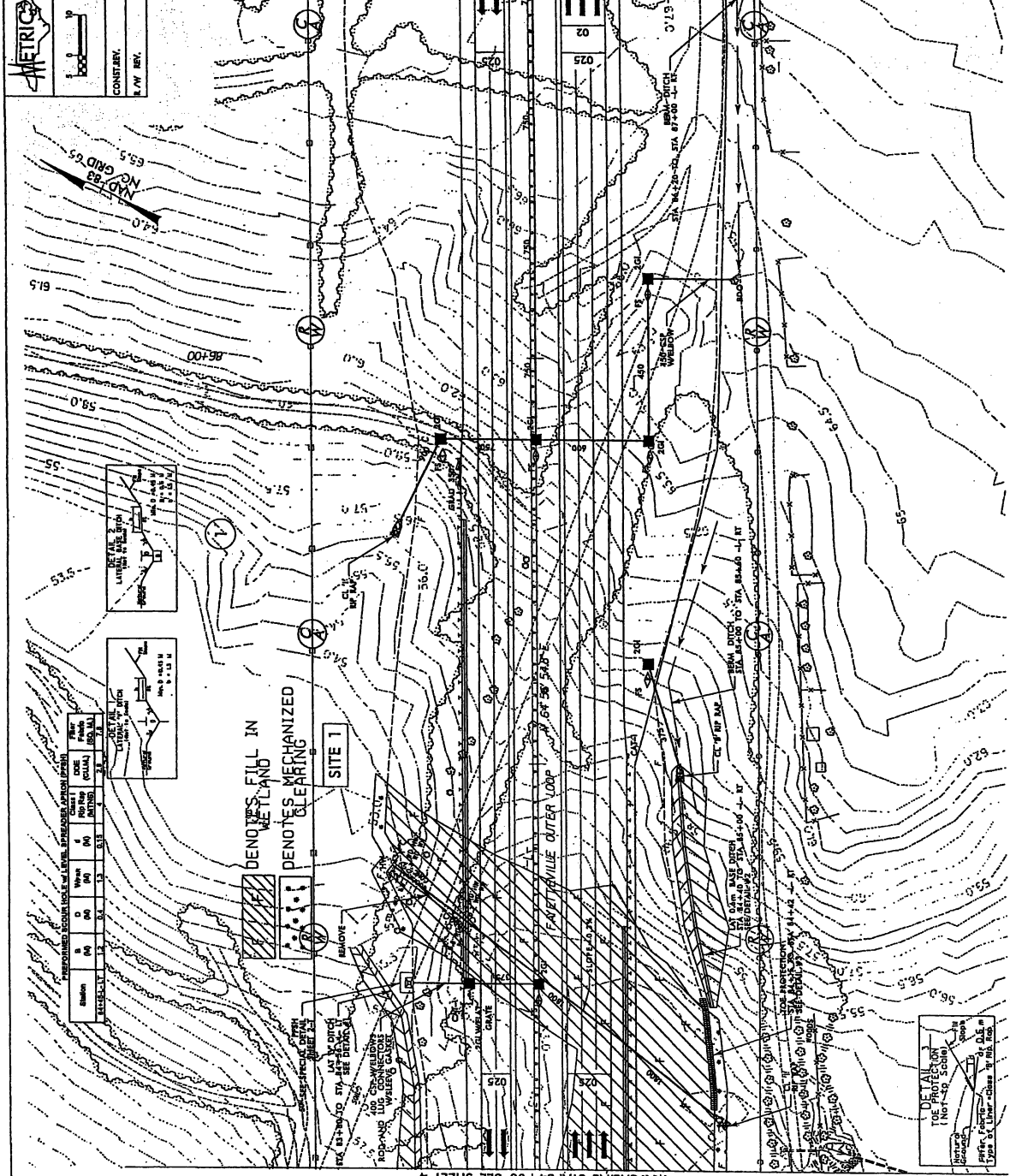
	HYDRAULICS ENGINEER REGISTERED ROADWAY DESIGN ENGINEER	PREPARED IN THE OFFICE OF: MORRIS & MORRIS 1010 N. W. 10TH AVENUE, SUITE 100 FAYETTEVILLE, NC 28404 PHONE: 781-333-1111 FAX: 781-333-1112	PROJECT ENGINEER T.R. REID, P.E. PROJECT MANAGER J.E. HUFFMAN, P.E. PROJECT DESIGN MANAGER
	PROJECT LENGTH LENGTH ROADWAY TIP PROJECT X-0002C = 6.385 km LENGTH STRUCTURES TIP PROJECT X-0002C = 0.185 km TOTAL LENGTH OF TIP PROJECT X-0002C = 6.570 km * NOTE: LENGTH BASED ON WBL BRIDGES	DESIGN DATA ADT 2008 = 34,700 ADT 2030 = 59,600 DIV = 9 % D = 55 % T = 10 % V = 11 km/h * I/TST 4 % DUAL 6 % FUNC. CLASS = INTERSTATE	GRAPHIC SCALES PLANS PROFILE (HORIZONTAL) PROFILE (VERTICAL)

CONTRACT: TIP PROJECT: X-0002C

PROJECT REFERENCE NO. 2-0022
 SHEET NO. 5
 ROADWAY DESIGN
 METRIC
 CIVIL ENGINEERING
 PROFESSIONAL SEAL
 STATE OF CALIFORNIA
 CIVIL ENGINEER
 No. 10888
 EXPIRES 12/31/2010
 METRIC ENGINEERING, INC.
 1000 S. GARDEN ST., SUITE 200
 ANAHEIM, CA 92805
 (714) 933-8888
 WWW.METRIC-ENG.COM

Permit Drawing
 Sheet 8 of 14

338



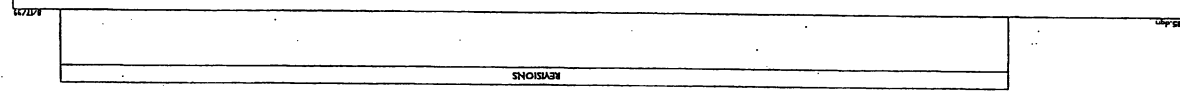
PROPOSED ROADWAY IN WETLANDS (SECTION 4070)

Station	Width	Depth	Area	Volume	Notes
(+/-)	(ft)	(ft)	(sq ft)	(cu ft)	(ft)
84+00	10	1.0	100	100	1.0
84+10	10	1.0	100	100	1.0
84+20	10	1.0	100	100	1.0
84+30	10	1.0	100	100	1.0
84+40	10	1.0	100	100	1.0
84+50	10	1.0	100	100	1.0
84+60	10	1.0	100	100	1.0
84+70	10	1.0	100	100	1.0
84+80	10	1.0	100	100	1.0
84+90	10	1.0	100	100	1.0
85+00	10	1.0	100	100	1.0
85+10	10	1.0	100	100	1.0
85+20	10	1.0	100	100	1.0
85+30	10	1.0	100	100	1.0
85+40	10	1.0	100	100	1.0
85+50	10	1.0	100	100	1.0
85+60	10	1.0	100	100	1.0
85+70	10	1.0	100	100	1.0
85+80	10	1.0	100	100	1.0
85+90	10	1.0	100	100	1.0
86+00	10	1.0	100	100	1.0
86+10	10	1.0	100	100	1.0
86+20	10	1.0	100	100	1.0
86+30	10	1.0	100	100	1.0
86+40	10	1.0	100	100	1.0
86+50	10	1.0	100	100	1.0
86+60	10	1.0	100	100	1.0
86+70	10	1.0	100	100	1.0
86+80	10	1.0	100	100	1.0
86+90	10	1.0	100	100	1.0
87+00	10	1.0	100	100	1.0

MATCHLINE STA. 84+00 SEE SHEET 4

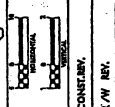
MATCHLINE STA. 87+00 SEE SHEET 6

FOR DETAIL SEE SHEET 2-5
 FOR "L" PROFILE SEE SHEET 32



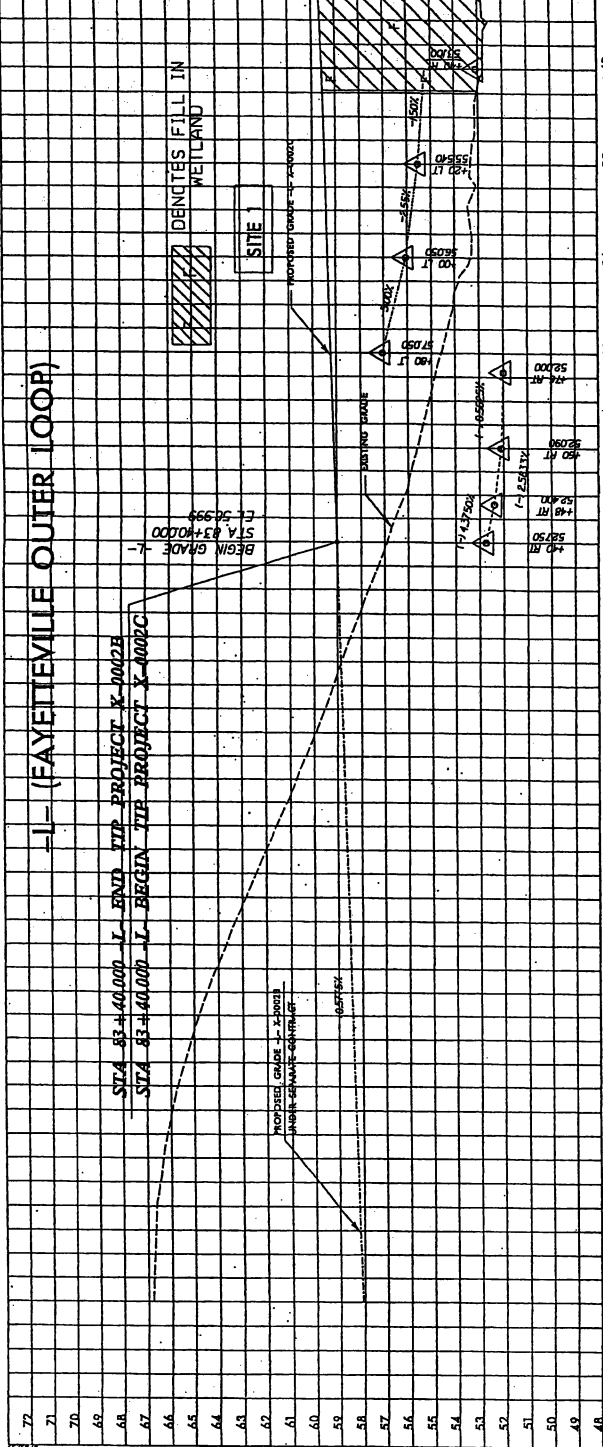
REVISIONS

PROJECT REFERENCE NO. SHEET NO. 37



DAVID J. KINN
1000 S.W. 10th Ave.
Fort Lauderdale, FL 33304
Professional Engineer
No. 12457
Civil

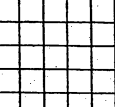
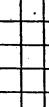
Permit Drawing
Sheet 0 of 6



PIPE HYDRAULIC DATA

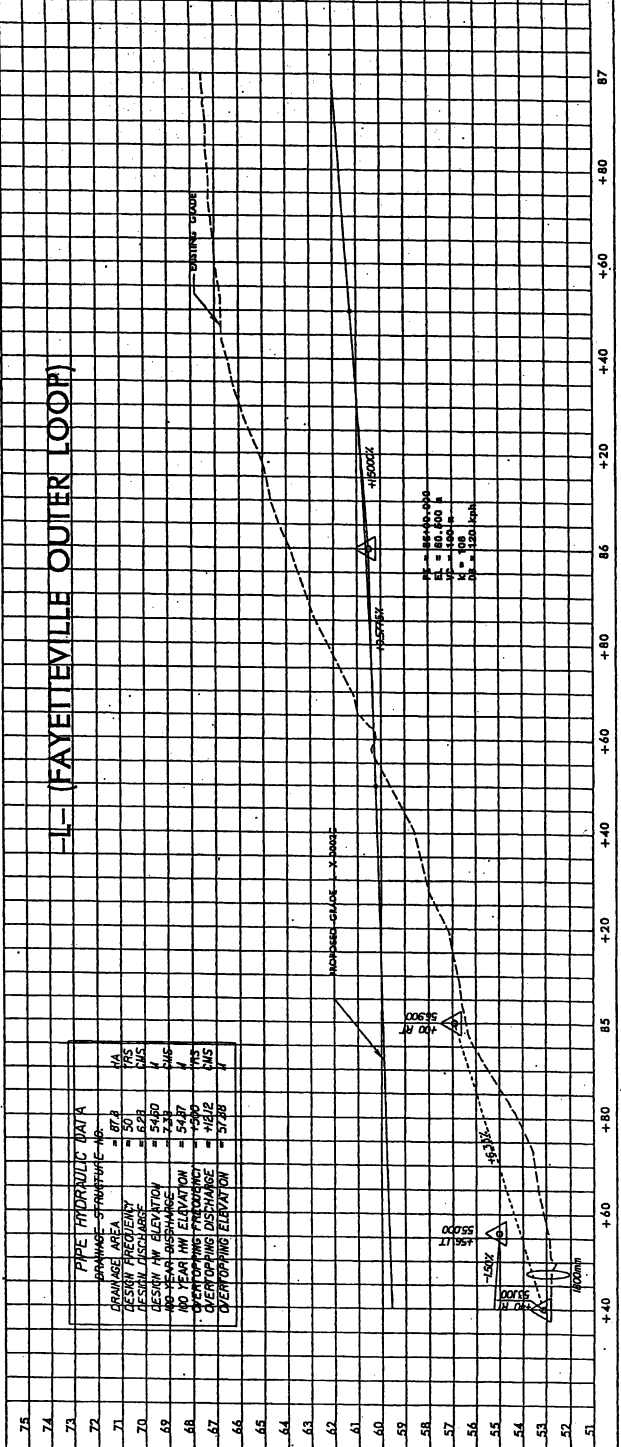
DRAINAGE STRAIGHTWAY NO.	= 87.8
DESIGN FREQUENCY	= 50
DESIGN DISCHARGE	= 6.28 CFS
DESIGN HW ELEVATION	= 52.40
DESIGN WATER SURFACE ELEVATION	= 54.87
DESIGN FLOW VELOCITY	= 1.20 FPS
OVERTOPPING DISCHARGE	= 161.2 CFS
OVERTOPPING ELEVATION	= 57.28

PROJECT REFERENCE NO. SHEET NO. 38



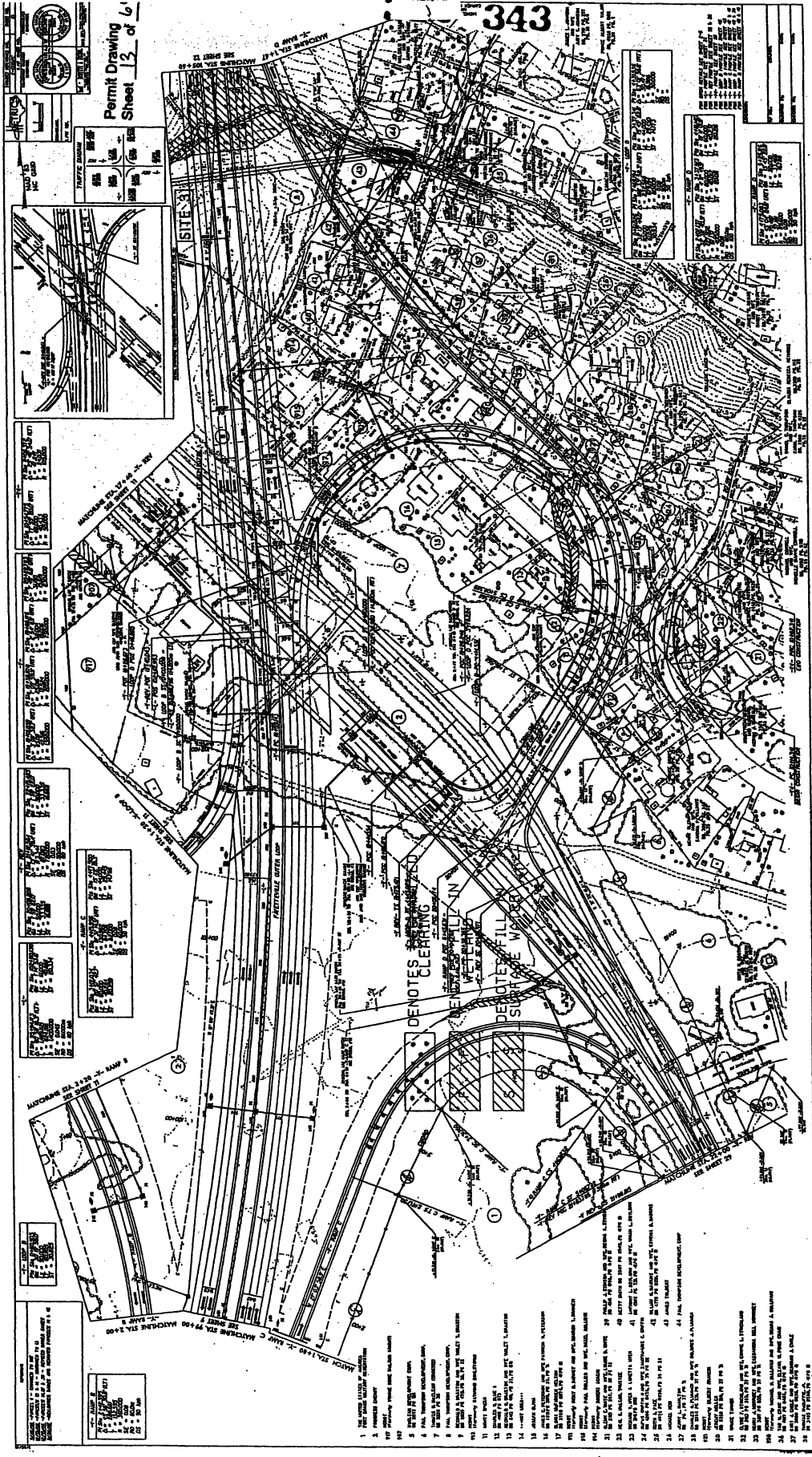
DAVID J. KINN
1000 S.W. 10th Ave.
Fort Lauderdale, FL 33304
Professional Engineer
No. 12457
Civil

Permit Drawing
Sheet 1 of 6

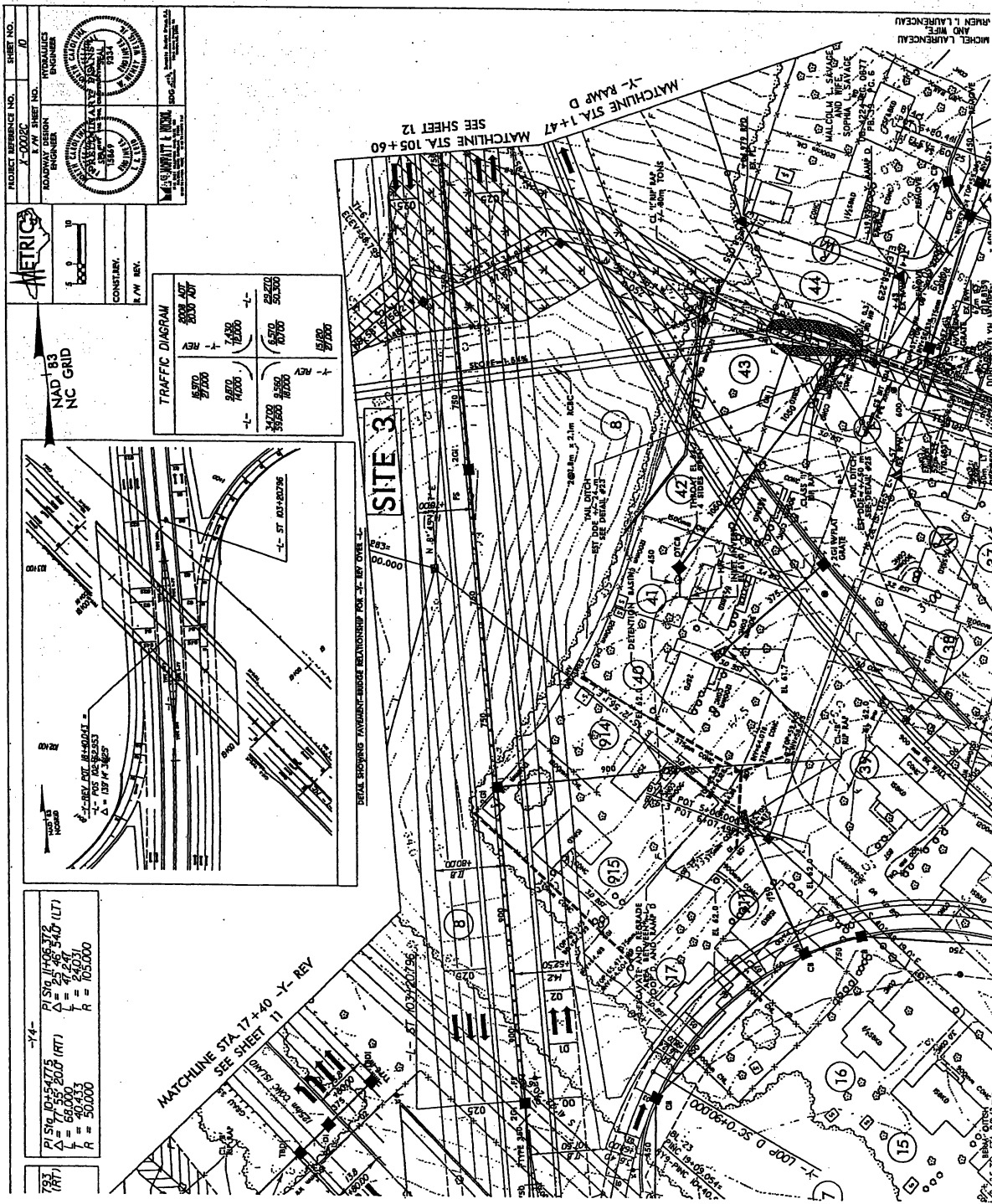


PIPE HYDRAULIC DATA

DRAINAGE STRAIGHTWAY NO.	= 87.8
DESIGN FREQUENCY	= 50
DESIGN DISCHARGE	= 6.28 CFS
DESIGN HW ELEVATION	= 52.40
DESIGN WATER SURFACE ELEVATION	= 54.87
DESIGN FLOW VELOCITY	= 1.20 FPS
OVERTOPPING DISCHARGE	= 161.2 CFS
OVERTOPPING ELEVATION	= 57.28



- 1. THE AREA UNDER CONSTRUCTION.
- 2. EXISTING BUILDINGS.
- 3. EXISTING UTILITIES AND STRUCTURES.
- 4. EXISTING DRIVEWAYS.
- 5. EXISTING SIDEWALKS.
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- 99. EXISTING DRIVEWAYS.
- 100. EXISTING DRIVEWAYS.



PROJECT REFERENCE NO. 100000
 SHEET NO. 14

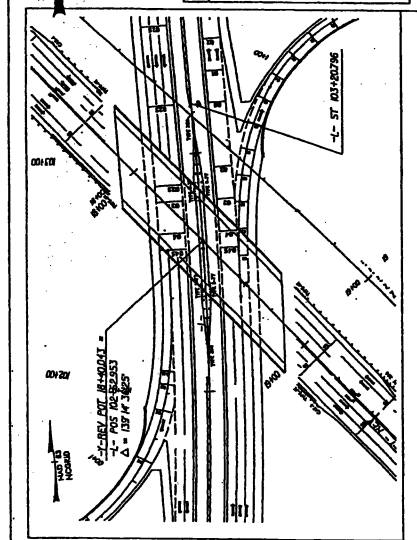
ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER

CONTRACT NO. 100000
 PAV. REV.

METRIC

CONTRACT NO. 100000
 PAV. REV.

NAD 83
 NC GRID



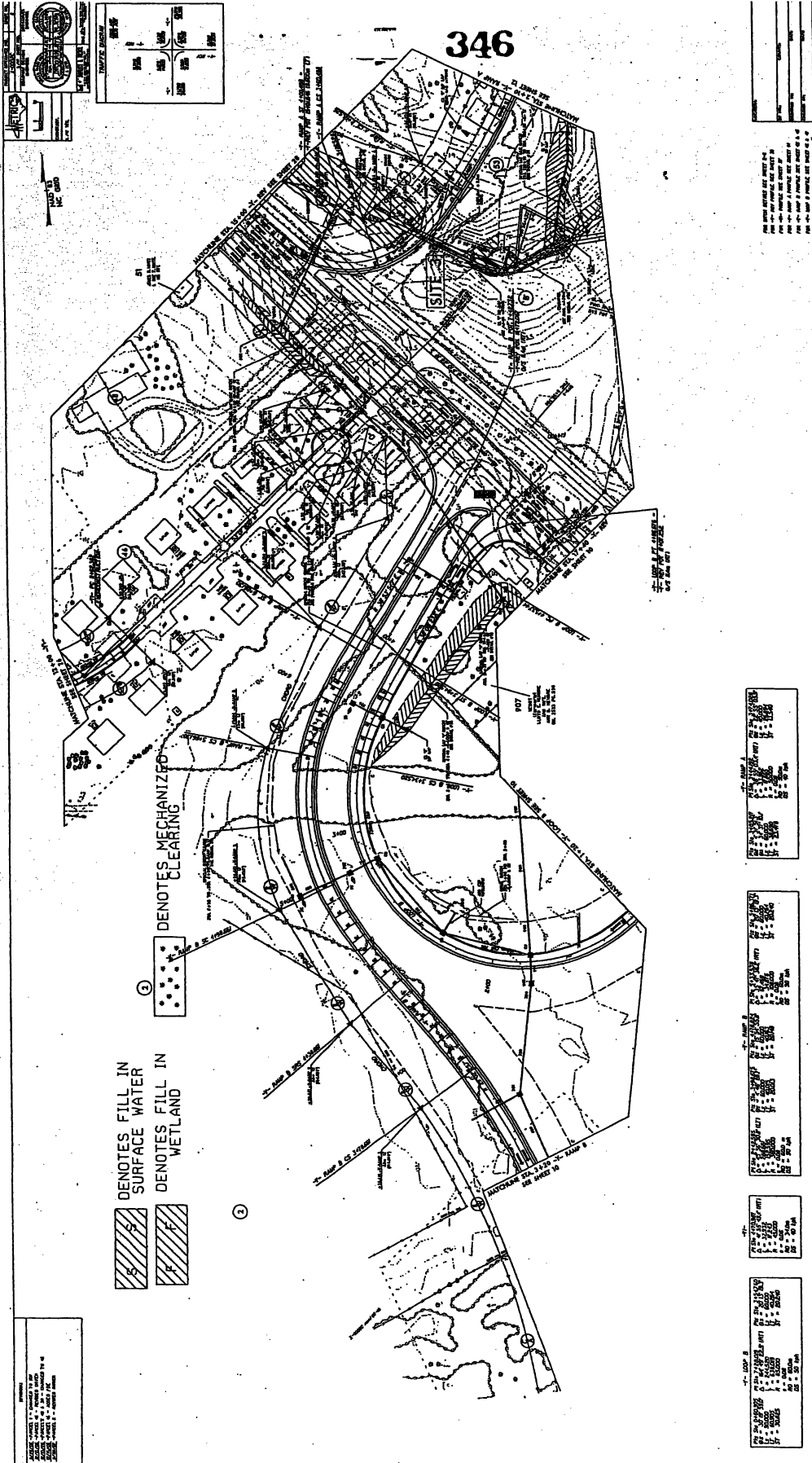
793
 (RT)



PI S19 04+547.5
 $\Delta = 25^\circ 46' 54.0$ (LT)
 $L = 66.000$
 $R = 50.000$


PI S19 14+08.378
 $\Delta = 25^\circ 46' 54.0$ (LT)
 $L = 66.000$
 $R = 50.000$

MICHEL LAURENCEAU
 AND WIFE
 MICHÈLE LAURENCEAU

346



 DENOTES FILL IN SURFACE WATER
 DENOTES FILL IN WETLAND

 DENOTES MECHANIZED CLEARING

1	1" = 100'
2	1" = 200'
3	1" = 300'
4	1" = 400'
5	1" = 500'
6	1" = 600'
7	1" = 700'
8	1" = 800'
9	1" = 900'
10	1" = 1000'

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4	1" = 400'
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7	1" = 700'
8	1" = 800'
9	1" = 900'
10	1" = 1000'

THE DRAWING IS THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

PROJECT REFERENCE NO. 12
SHEET NO. 2

CONTRACTOR
KAY REY

ENGINEER
ROADWAY DESIGN ENGINEER

DATE
12/22/07

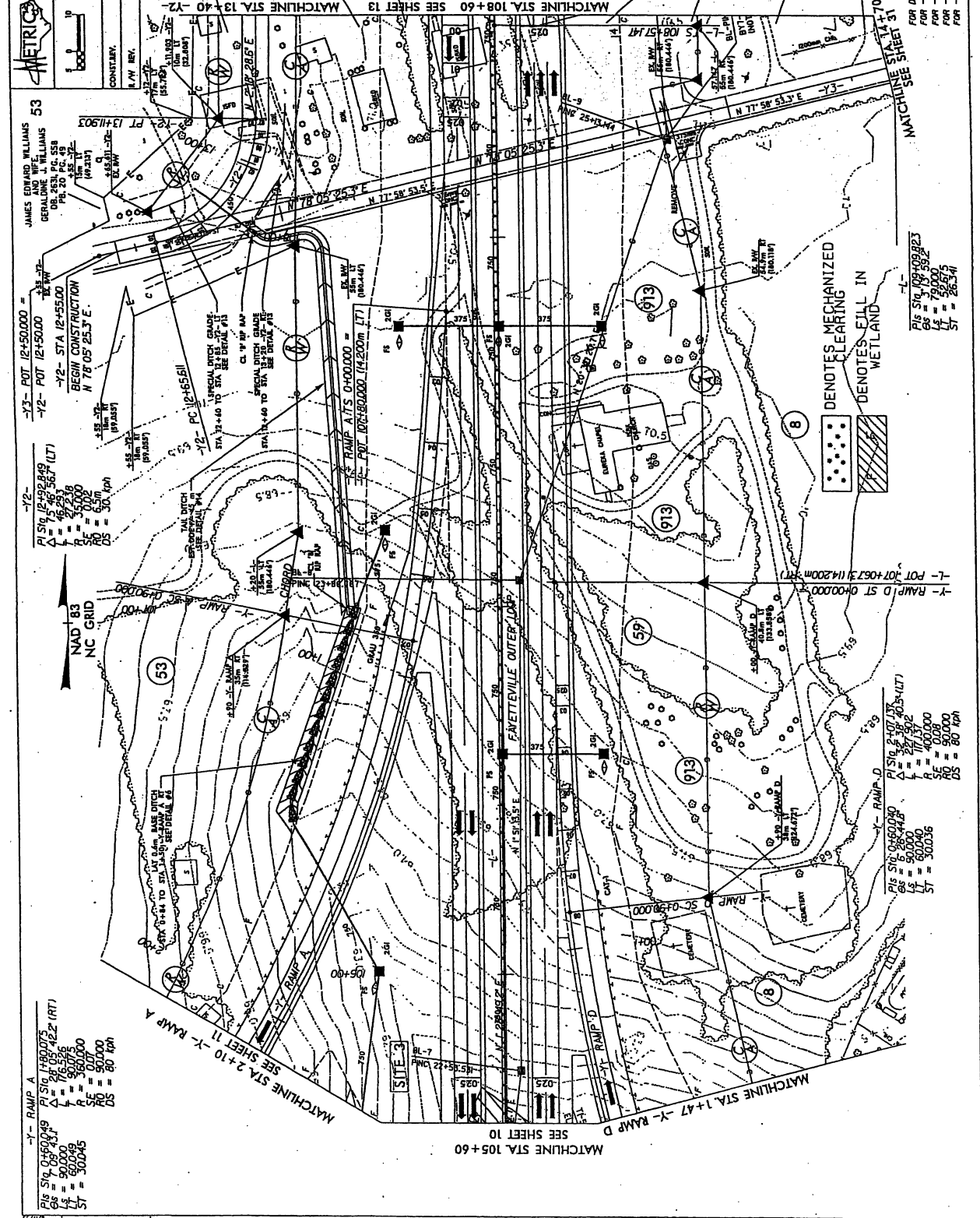
SCALE
AS SHOWN

PROJECT LOCATION
STATE OF NORTH CAROLINA
COUNTY OF WAKE

PROJECT NAME
FAVETVILLE OUTER LOOP

347

Permit Drawing
Sheet 17 of 64



Y- RAMP A

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

Y- RAMP B

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

Y- RAMP C

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

Y- RAMP D

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

Y- RAMP D

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

Y- RAMP D

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

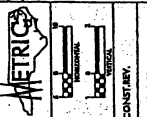
Y- RAMP D

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

Y- RAMP D

PI STA	105+00.00
LS	50.000
LT	300.00
SE	0.00
RS	50.000
DS	80 kph

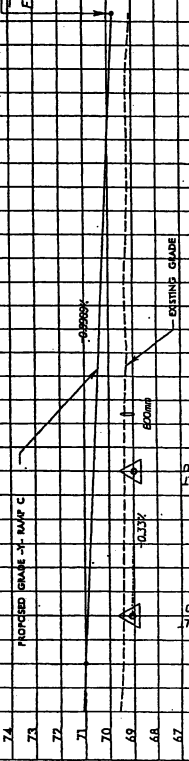
06/28/06 - PARCELS 58 & 60 - CHANGED TO 913, PARCEL 913 - CHANGED OWNER TO EUREKA CHAPEL BAPTIST CHURCH, PARCEL 99 - CHANGED OWNER TO BENJAMIN J. LEVANS HEIRS
02/22/07 - ADDED PB & PC TO EASEMENT AND ADDED CENTER TO PARCEL 913



2024-1-10
 Permit Drawing
 Sheet 20 of 44
 07024-LEGEND
 LEFT SWITCH

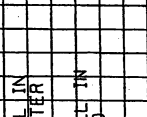
RAMP C @ Y-REV

END GRADE -Y- RAMP C STA 15+40.273 =
 PAVED STA 270.000 @ 7% FROM 10/17
 F = 1.8121



TYPE HYDRAULIC DATA	
DRAINAGE STRUCTURE NO.	MA
DRAINAGE AREA	115
DESIGN FREQUENCY	50
DESIGN DISCHARGE	0.43
DESIGN HW ELEVATION	57.0
NO. YEARS TO EXHAUSTION	6375
LOWEST BANK ELEVATION	45.00
OVERTOPPING DISCHARGE	1.46
OVERTOPPING ELEVATION	7.92

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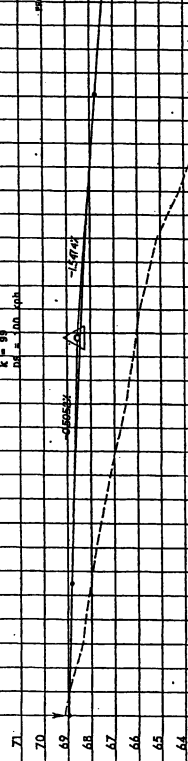


2024-1-10
 Permit Drawing
 Sheet 20 of 44
 07024-LEGEND
 LEFT SWITCH

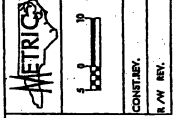
RAMP D @ Y-REV

SITE 3

END GRADE -Y- RAMP D STA 15+40.273 =
 PAVED STA 270.000 @ 7% FROM 10/17
 F = 1.8121



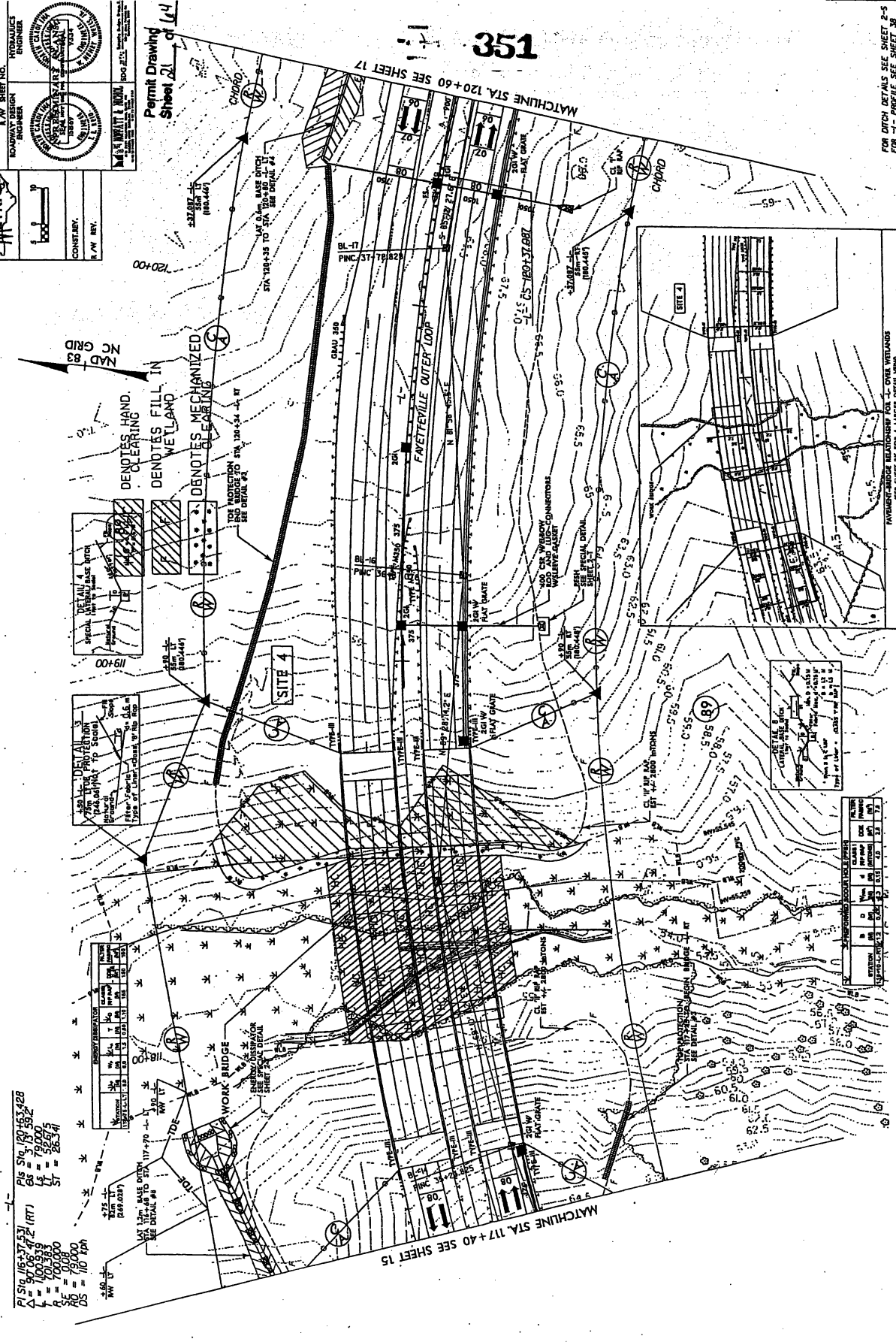
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PROJECT REFERENCE NO. 1-0002
 SHEET NO. 15
 ROADWAY DESIGN
 CONTRACTOR: M. J. METZ & ASSOCIATES, INC.
 PROJECT: FAIRVIEW DRIVE
 DATE: 08/20/14

Permit Drawing
 Sheet 21 of 44

351



PI STATION 16+37.51
 Δ = 90.06' (RT)
 L = 100.519'
 P = 70.333'
 S.F. = 0.0890
 R.D. = 79.000'
 DS = 110.120'

STATION	CHORD	CHORD BEARING	ARC LENGTH	ARC BEARING
16+37.51	100.519'	S 89° 06' 42" E	100.519'	89° 06' 42"
17+00.00	100.519'	S 89° 06' 42" E	100.519'	89° 06' 42"

DETAIL 1
 250' MIN. PROTECTION
 75' MIN. PROTECTION
 25' MIN. PROTECTION
 15' MIN. PROTECTION

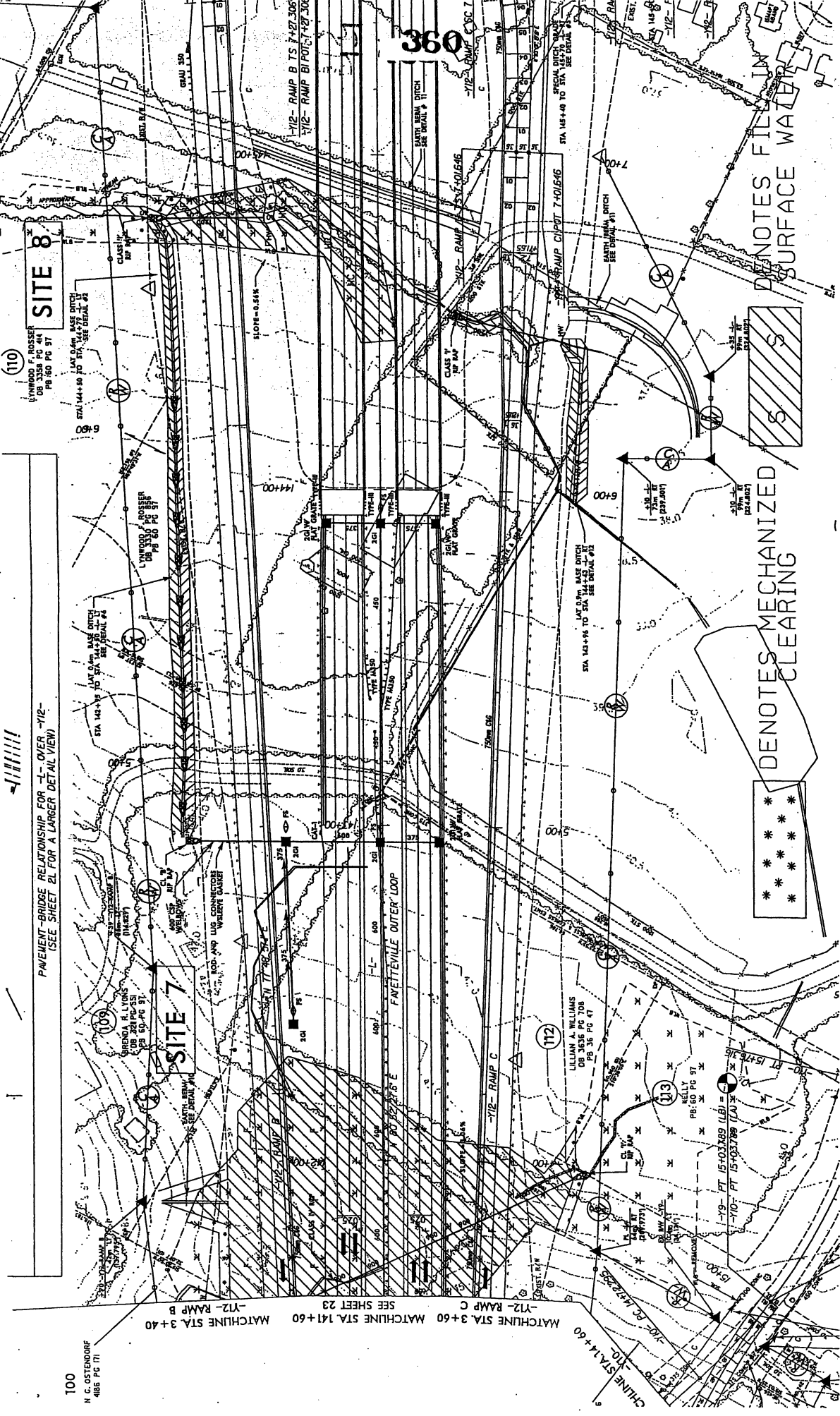
DETAIL 4
 SPECIAL WEIR WITH BASE DITCH
 15' MIN. PROTECTION
 15' MIN. PROTECTION

DETAIL 3
 15' MIN. PROTECTION
 15' MIN. PROTECTION
 15' MIN. PROTECTION

NO.	DATE	BY	CHKD.	DESCRIPTION
1	08/20/14	JM	SM	ISSUED FOR PERMIT
2	08/20/14	JM	SM	REVISED PER COMMENTS

FOR DITCH DETAILS SEE SHEET 2-5
 FOR "L" PROFILE SEE SHEET 38

REVISIONS



-|||||||
 PAVEMENT-BRIDGE RELATIONSHIP FOR L- OVER -Y12-
 (SEE SHEET 2L FOR A LARGER DETAIL VIEW)

(110)
 SITE 8

(109)
 SITE 7

360

DENOTES FILLED IN
 SURFACE WATER

DENOTES MECHANIZED
 CLEARING

100
 N. C. OSTENDORF
 488 PG 71

MATCHLINE STA. 141+60 SEE SHEET 23
 MATCHLINE STA. 141+60 SEE SHEET 24
 MATCHLINE STA. 141+60 SEE SHEET 25

CHINE STA 141+40
 STA 140+00
 STA 141+00
 STA 142+00
 STA 143+00
 STA 144+00
 STA 145+00

(112)
 LILLIAN A. WILLIAMS
 DB 3516 PG 708
 PG 38 PG 41

(113)
 NELLY
 DB 50 PG 51

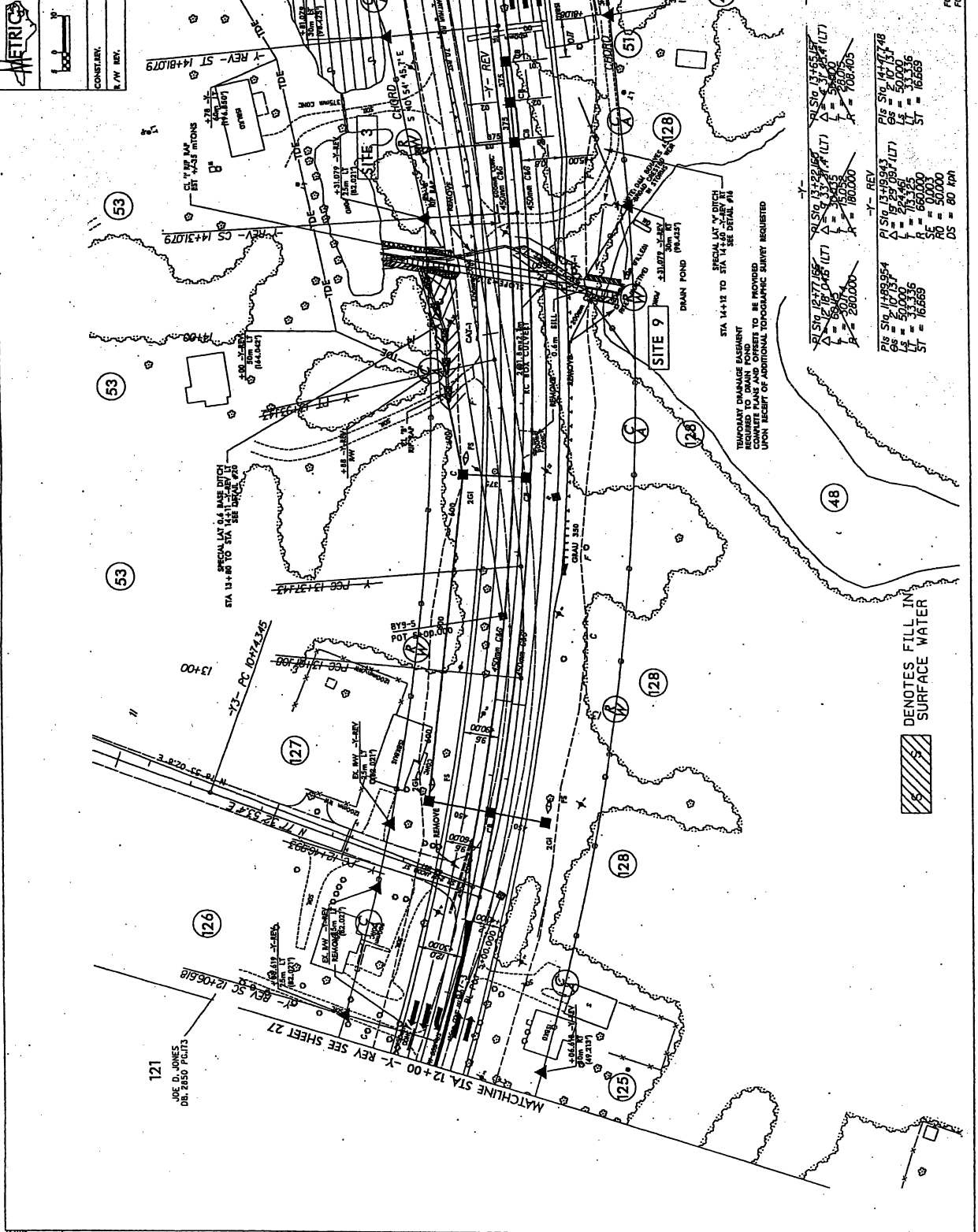
-Y9- FT 15+03.769 (LBI) =
 -Y10- FT 15+03.769 (LBI) =

STA 144+00 TO STA 145+00
 STA 145+00 TO STA 146+00
 STA 146+00 TO STA 147+00
 STA 147+00 TO STA 148+00
 STA 148+00 TO STA 149+00
 STA 149+00 TO STA 150+00

PROJECT REFERENCE NO. 1-0020C
 SHEET NO. 28
 ROADWAY DESIGN
 PROPOSED
 METRIC
 CONST. BY
 1/11/05

Permit Drawing
 Sheet 28 of 41

363



TEMPORARY DRAINAGE BASINMENT
 TO BE REMOVED UPON COMPLETION OF
 COMPLETE PAVEMENT AND OFFSET TO BE PROVIDED
 UPON RECEIPT OF ADDITIONAL TOPOGRAPHIC SURVEY REQUESTED

STA 14+15 TO STA 14 SEE DETAIL #11

STA 14+15 TO STA 14 SEE DETAIL #11

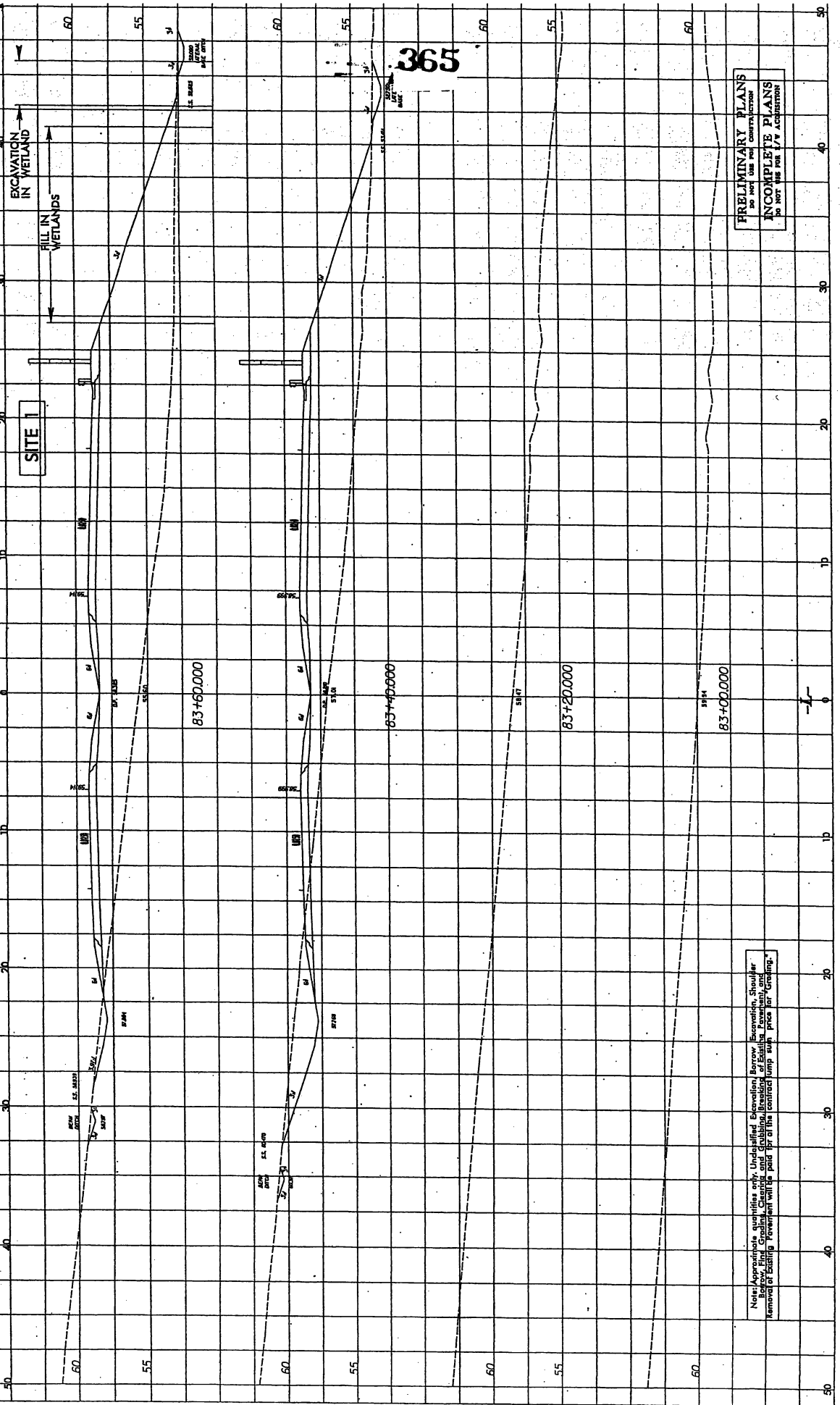
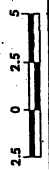
PI SLO 12.77 (LT)	PI SLO 13.22 (LT)	PI SLO 13.55 (LT)	PI SLO 13.55 (RT)
LS = 50000	LS = 50000	LS = 50000	LS = 50000
SE = 16.665	SE = 16.665	SE = 16.665	SE = 16.665
ST = 180000	ST = 180000	ST = 180000	ST = 180000
PI SLO 14.47 (LT)	PI SLO 14.47 (RT)	PI SLO 14.47 (LT)	PI SLO 14.47 (RT)
LS = 50000	LS = 50000	LS = 50000	LS = 50000
SE = 16.665	SE = 16.665	SE = 16.665	SE = 16.665
ST = 180000	ST = 180000	ST = 180000	ST = 180000

STA 14+15 TO STA 14 SEE DETAIL #11

PI SLO 14.47 (LT)	PI SLO 14.47 (RT)
LS = 50000	LS = 50000
SE = 16.665	SE = 16.665
ST = 180000	ST = 180000

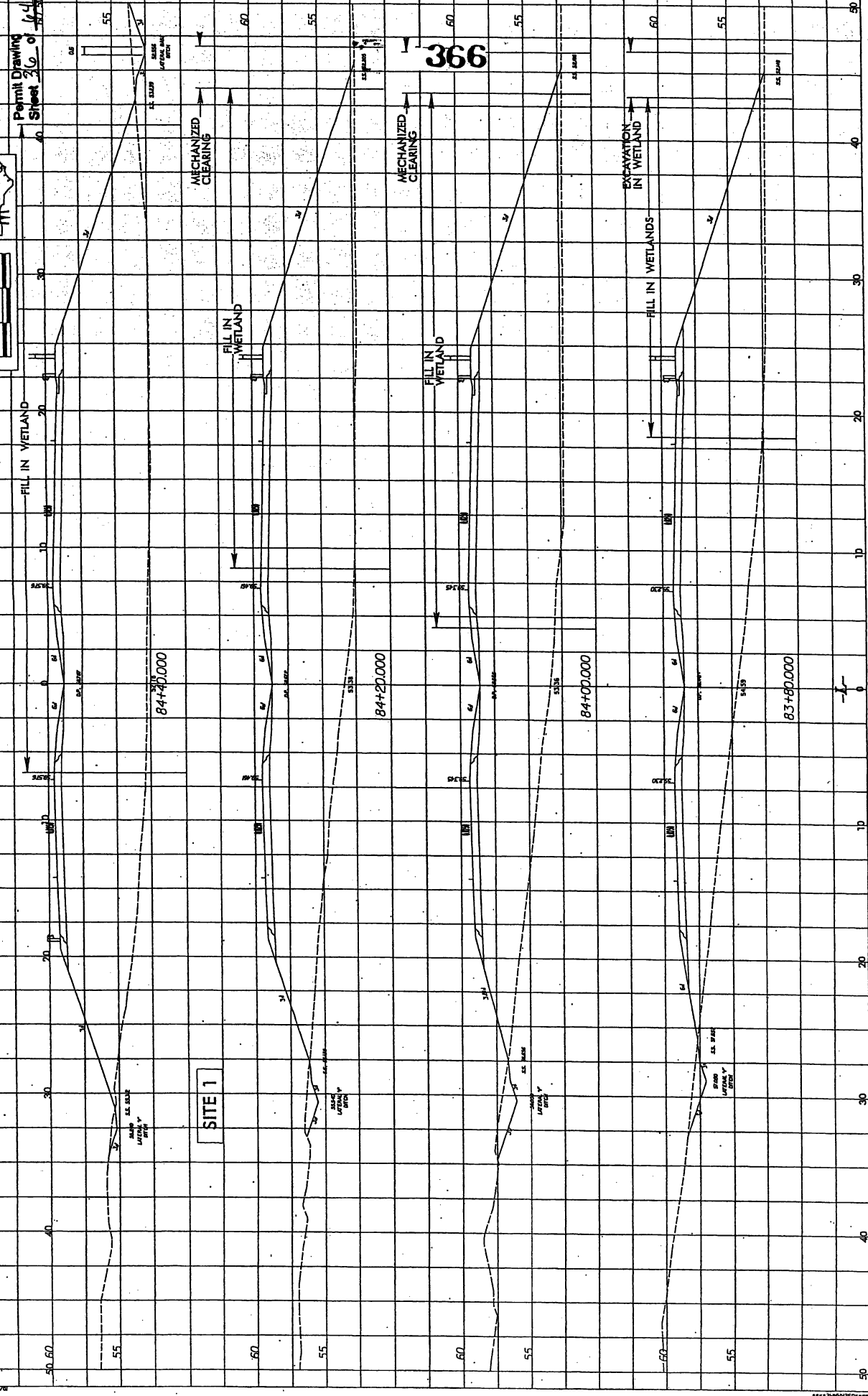
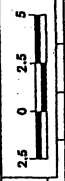
DENOTES FILL IN
 SURFACE WATER

FOR DITCH DETAILS SEE SHEET 2-5
 FOR "Y" REV PROFILE SEE SHEET 54 & 55



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR PERMITS

Note: Approvals includes only Undersized, Excavation, Borrow, Excavation, Shoulder, Borrow, Final Grading, Clearing and Grubbing, Breeding of Existing, Fencing, and Removal of Existing. Payment will be paid for at the contract lump sum price for Grading.



366

SITE 1

FILL IN WETLAND

FILL IN WETLAND

FILL IN WETLAND

FILL IN WETLANDS

MECHANIZED CLEARING

MECHANIZED CLEARING

EXCAVATION IN WETLAND

84+10.000

84+20.000

84+00.000

83+80.000

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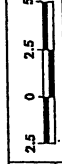
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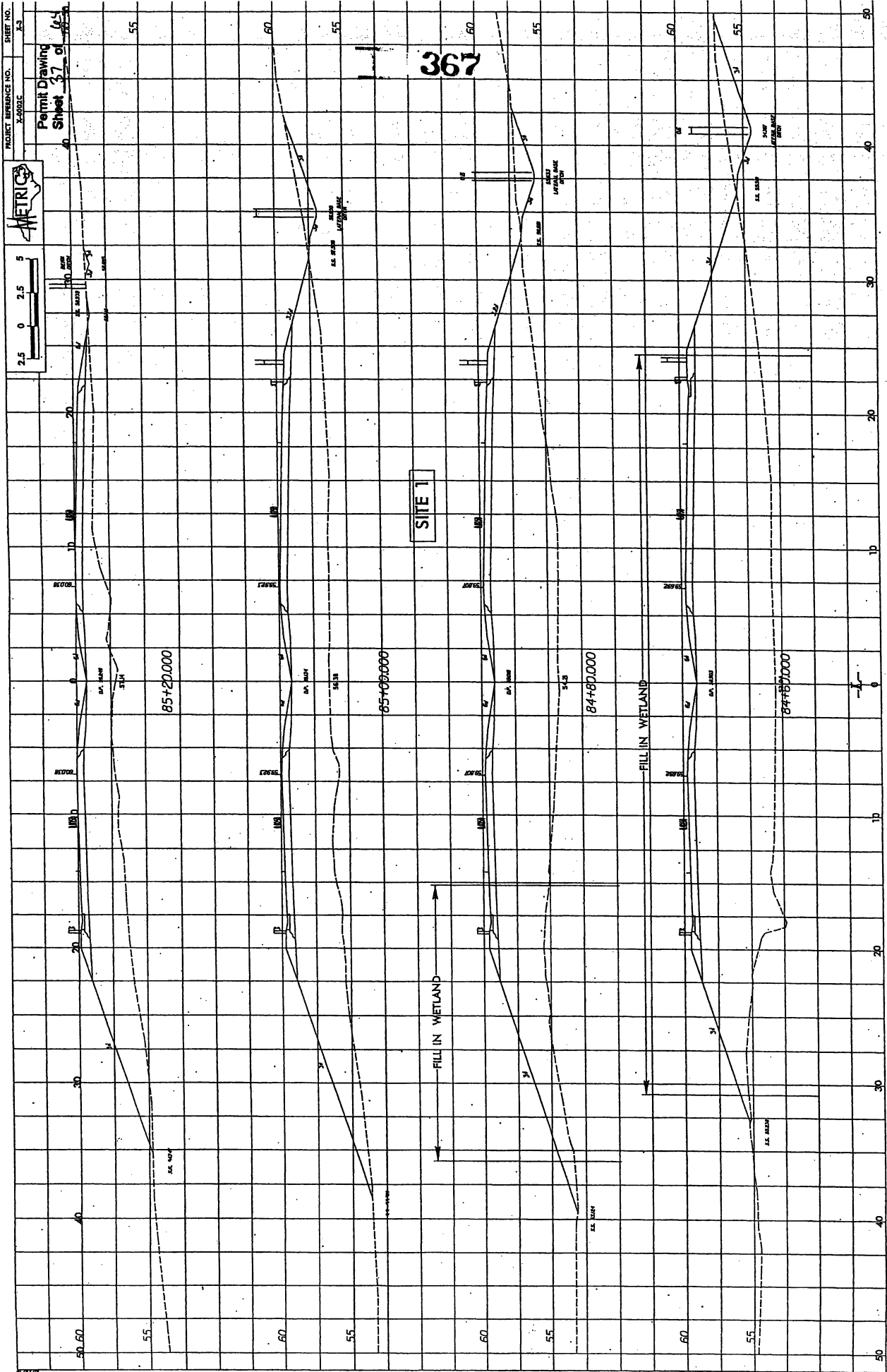
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PROJECT REFERENCE NO. 14-00000
SHEET NO. 23

Permit Drawing
Sheet 37 of 44



SITE 1

FILL IN WETLAND

FILL IN WETLAND

367

85+20.000

85+60.000

84+80.000

84+50.000

EXISTING WETLAND

EXISTING WETLAND

ROAD

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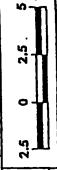
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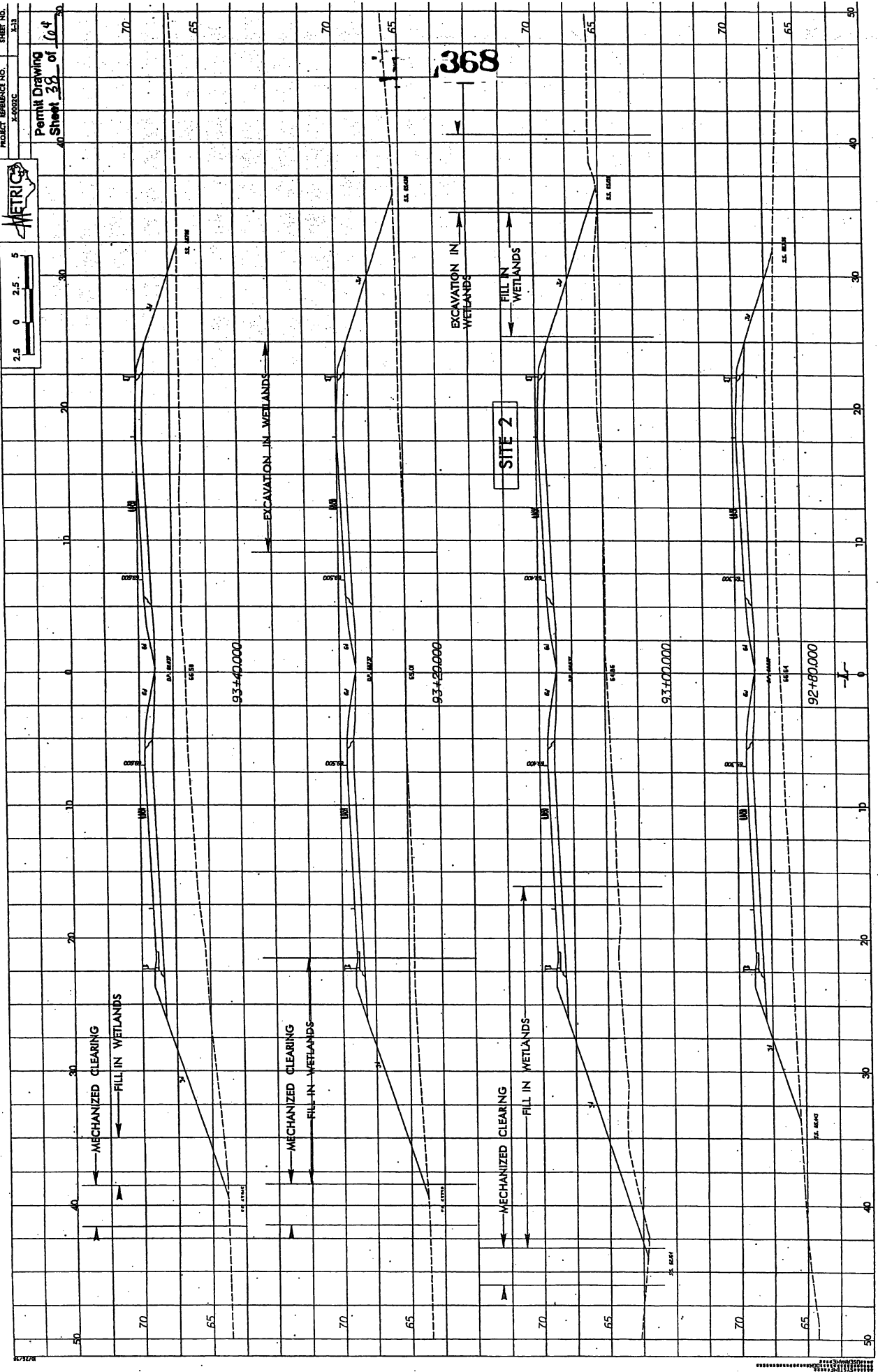
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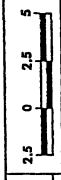


PROJECT REFERENCE NO. 2430000
SHEET NO. 5

Permit Drawing
Sheet 38 of 104

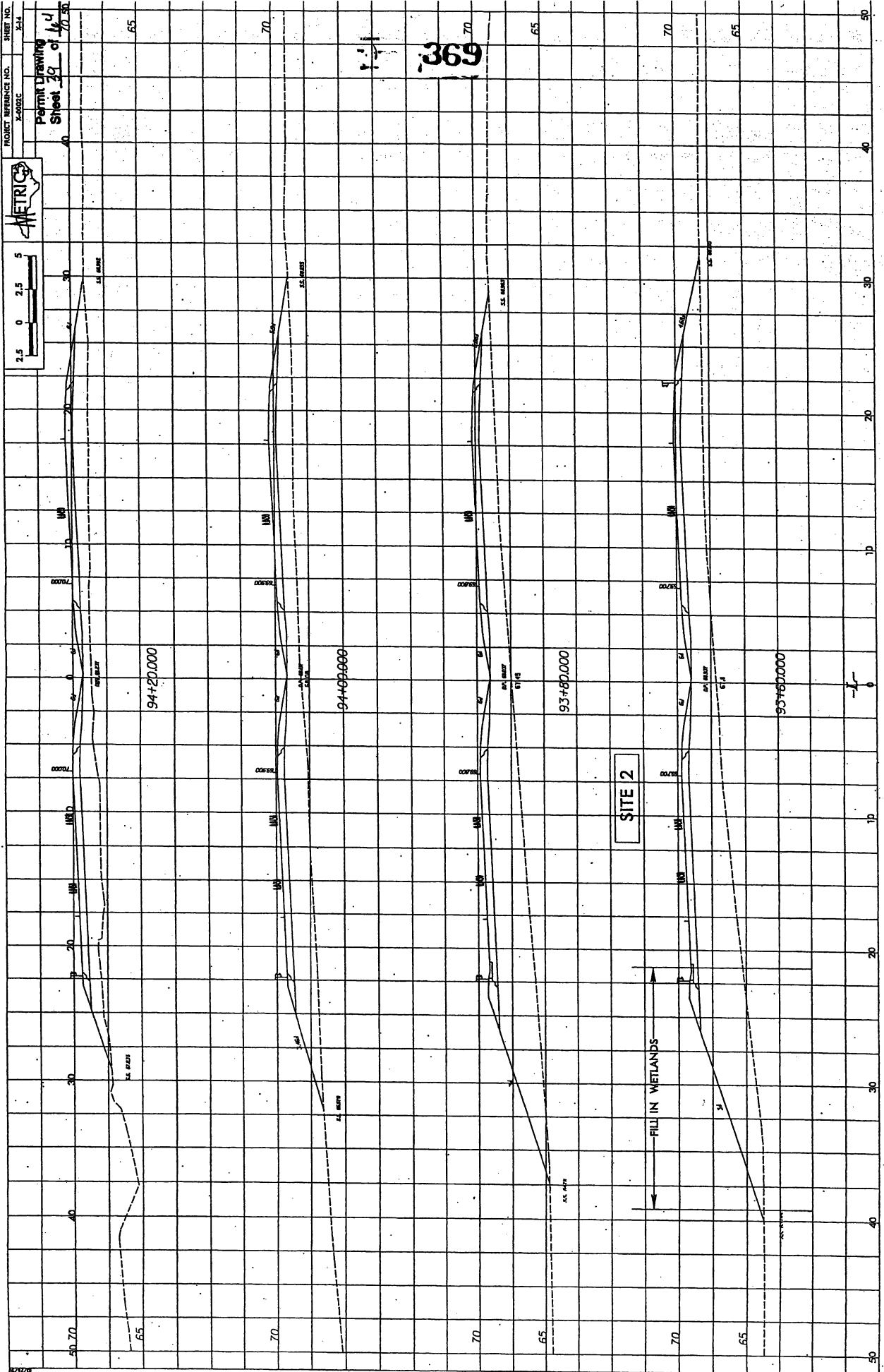


PROJECT REFERENCE NO. X-0003C



SHEET NO. 3-14

Permit Drawing
Sheet 29 of 40

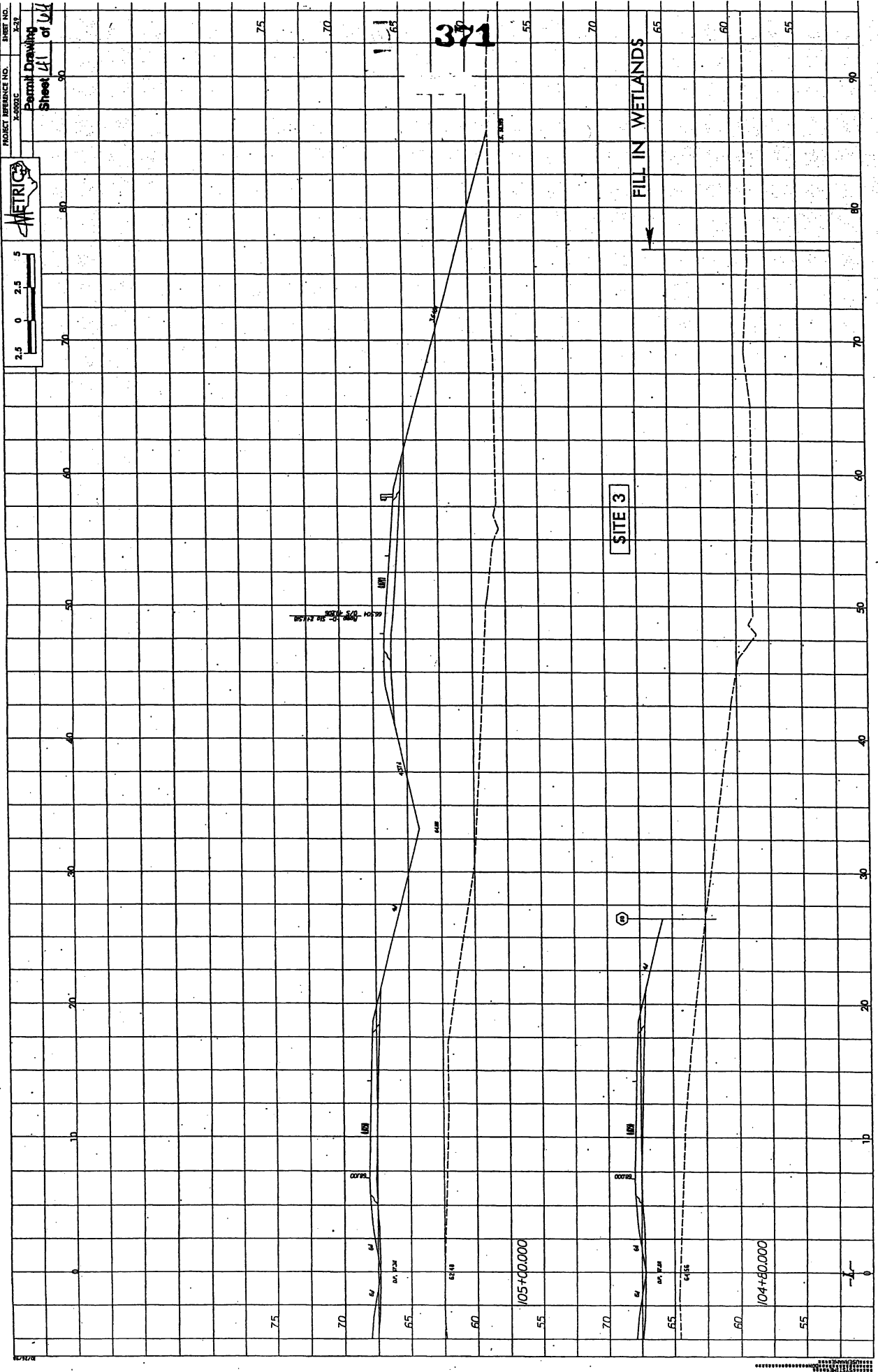
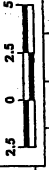


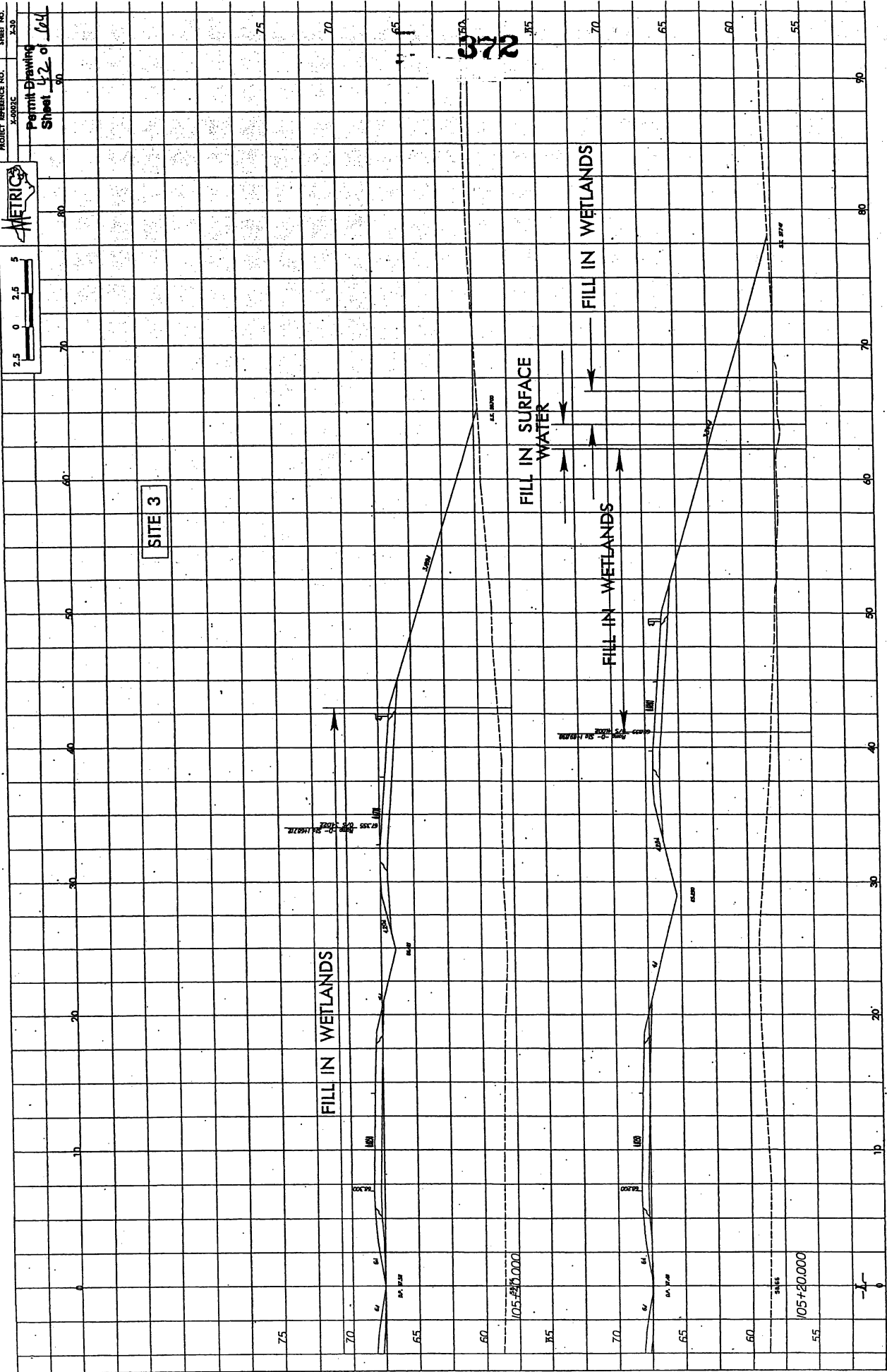
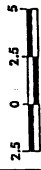
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SITE 2

FILL IN WETLANDS







SITE 3

FILL IN WETLANDS

FILL IN SURFACE WATER

FILL IN WETLANDS

FILL IN WETLANDS

105+40.000

105+20.000

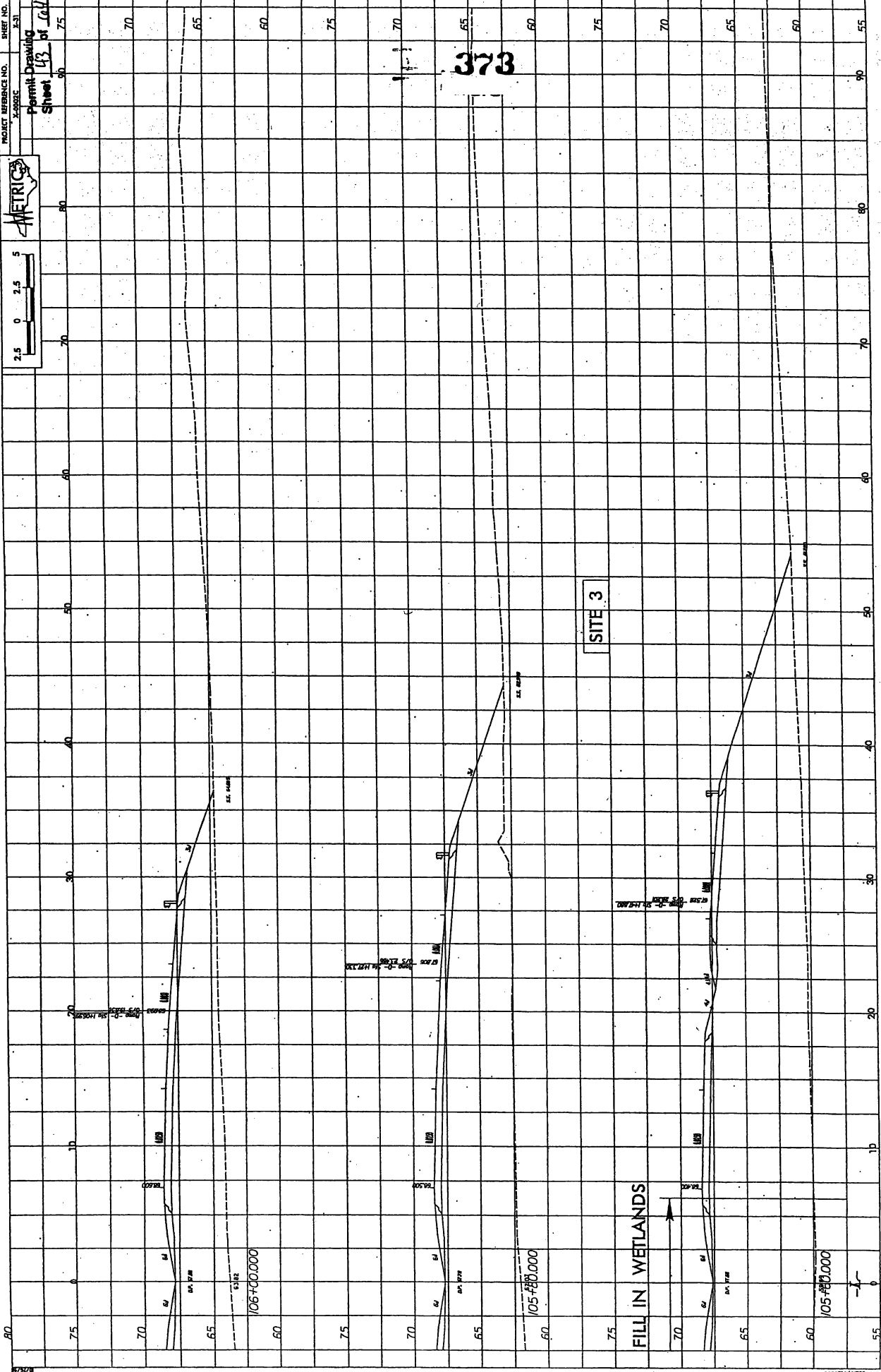


372



Permit Drawing
Sheet 13 of 162

373



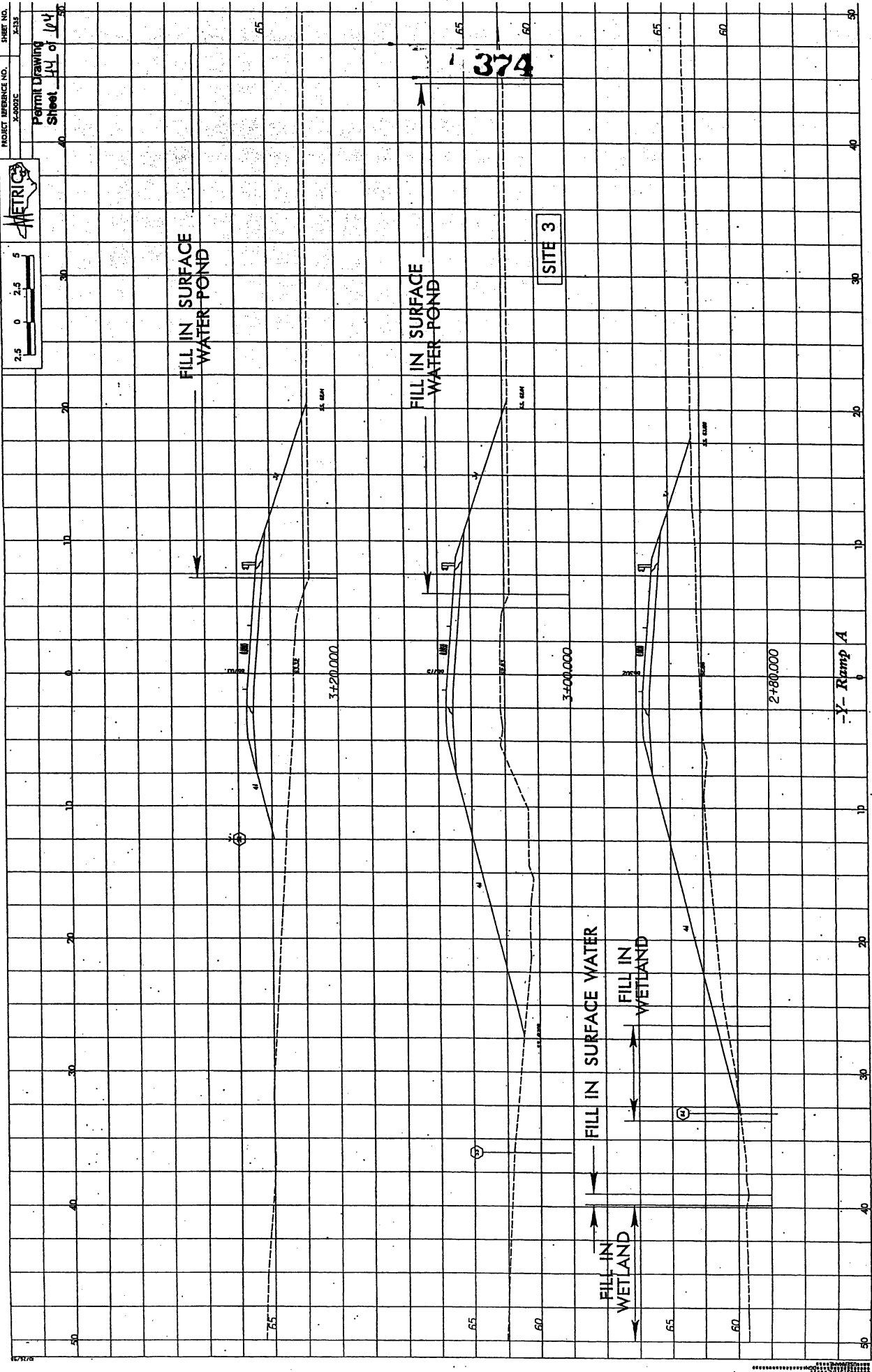
SITE 3

FILL IN WETLANDS

105+60.000

105+80.000

106+00.000



374

SITE 3

FILL IN SURFACE
WATER POND

FILL IN SURFACE
WATER POND

FILL IN SURFACE WATER

FILL IN
WETLAND

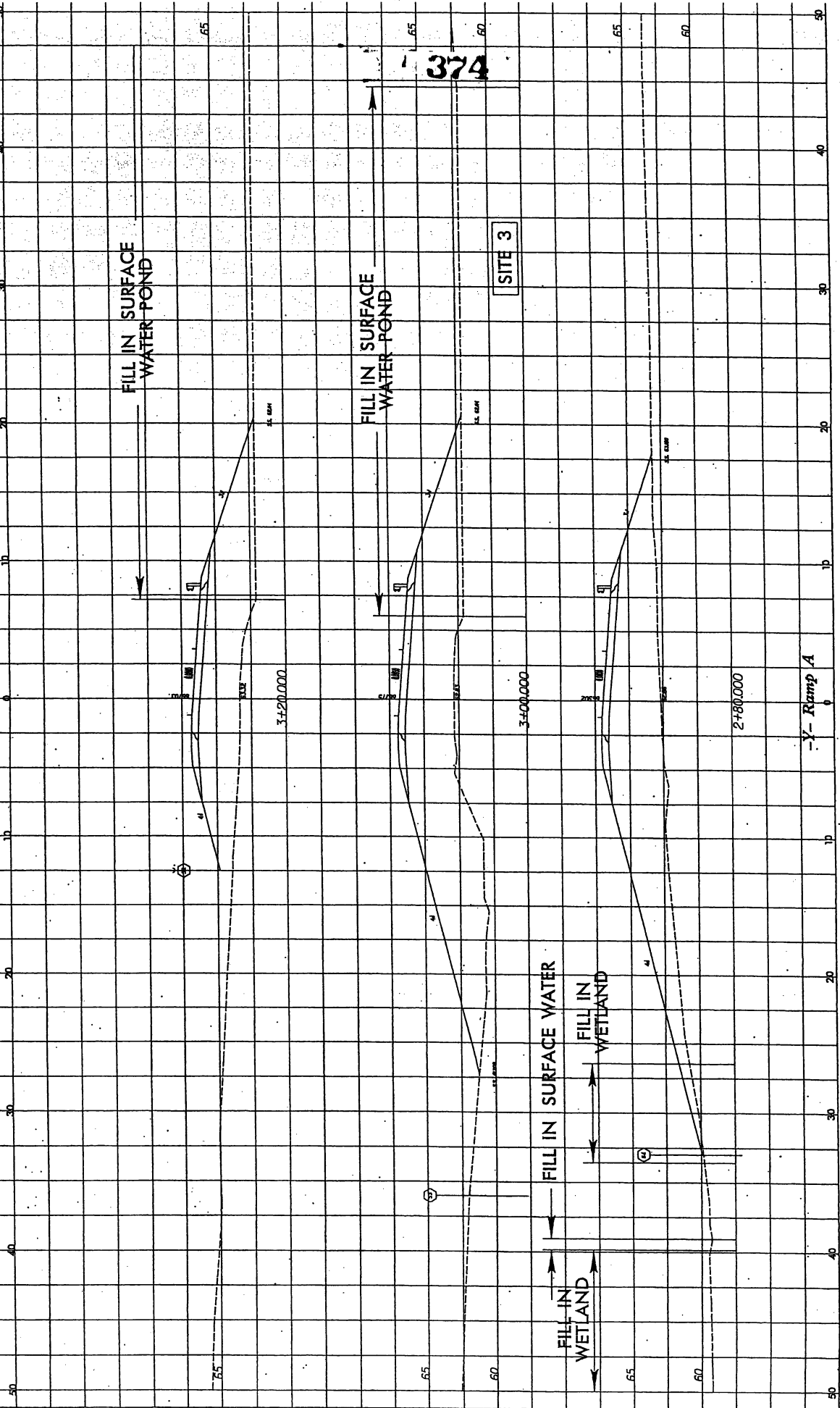
FILL IN
WETLAND

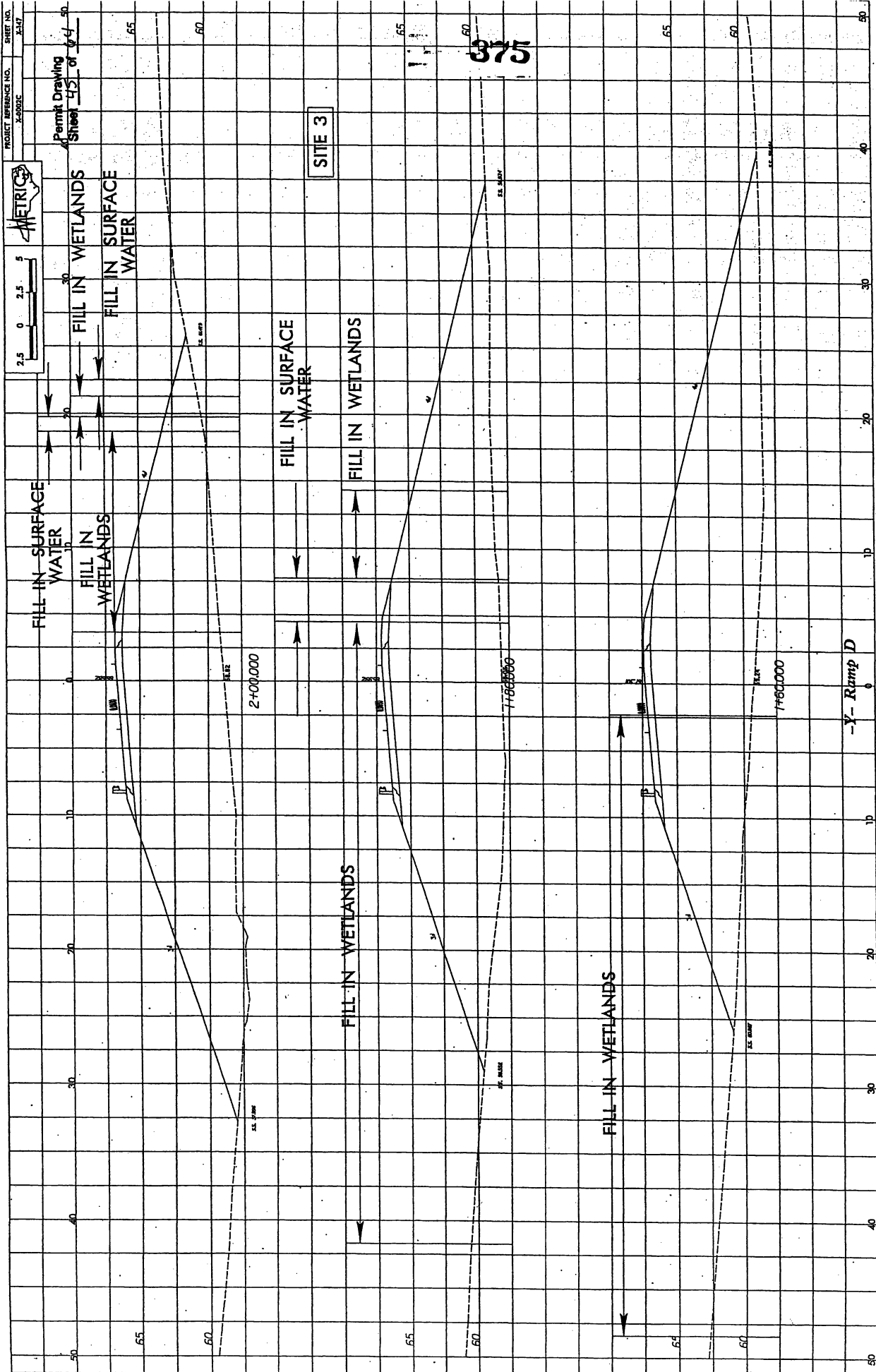
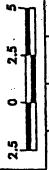
2+80.000

3+20.000

3+40.000

-Y- Ramp A

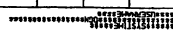


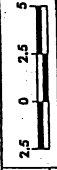


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SITE 3

-Y- Ramp D





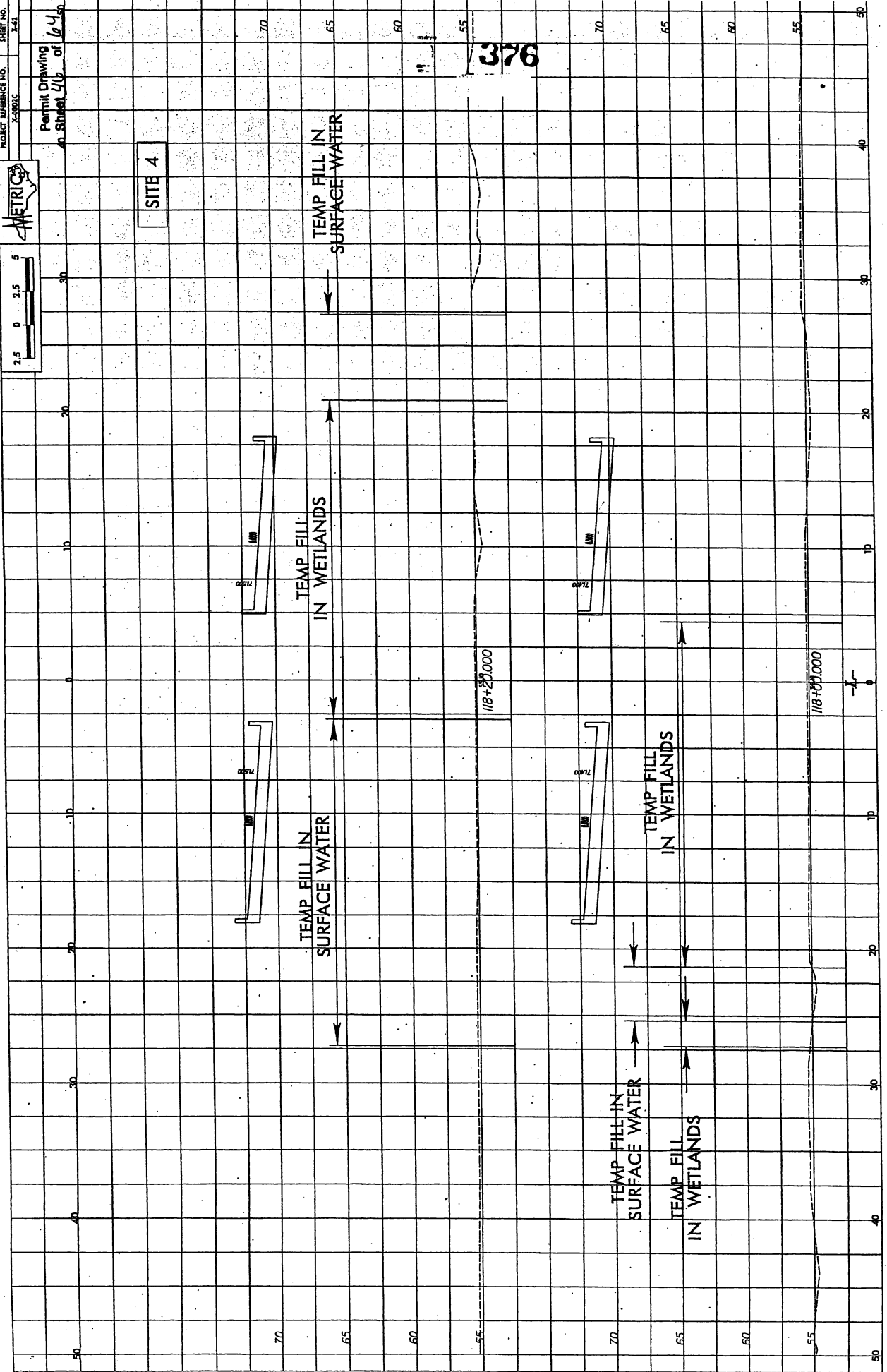
PROJECT REFERENCE NO. 24902

SHEET NO. 249

Permit Drawing of Sheet 4 of 64

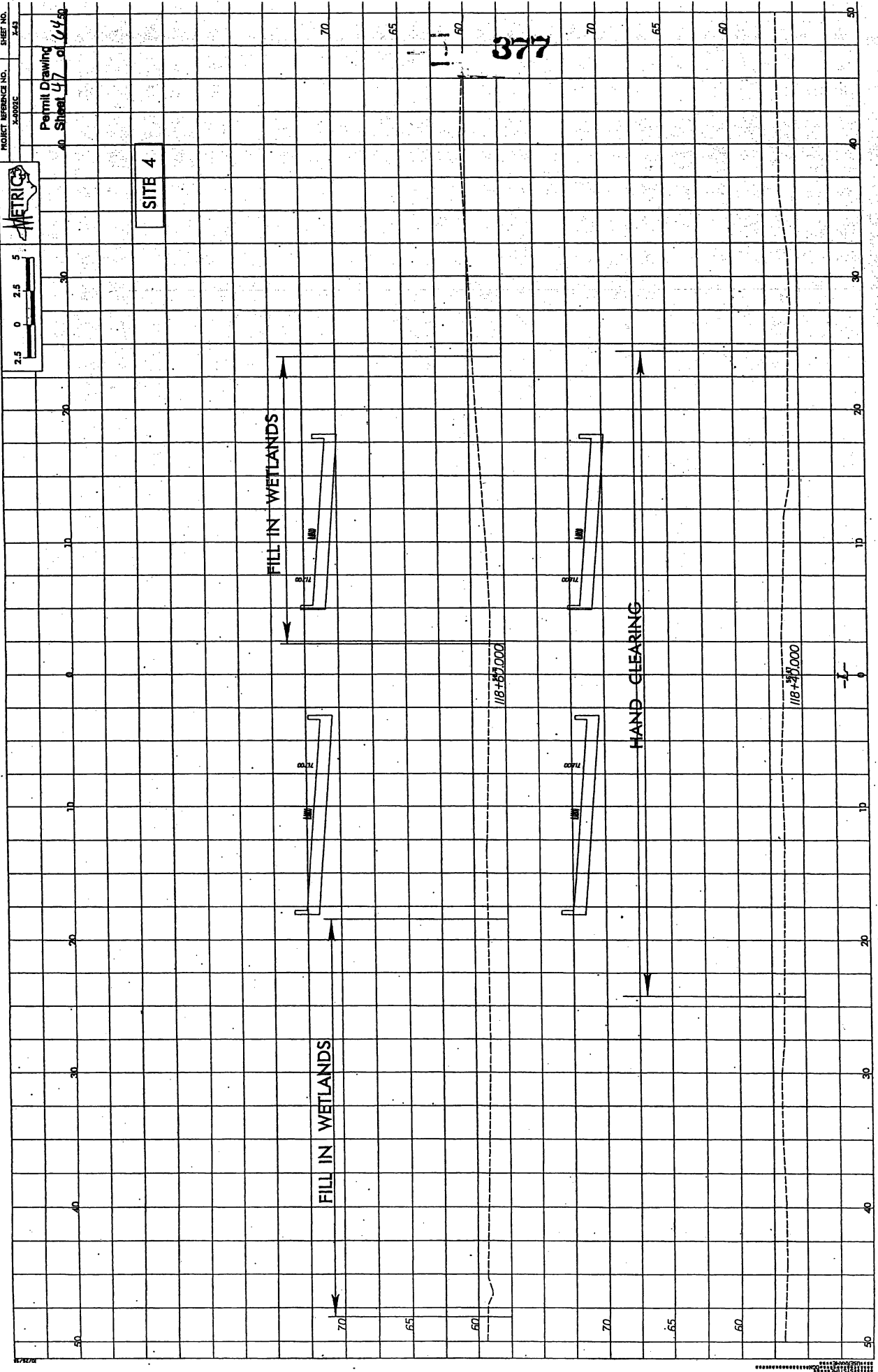
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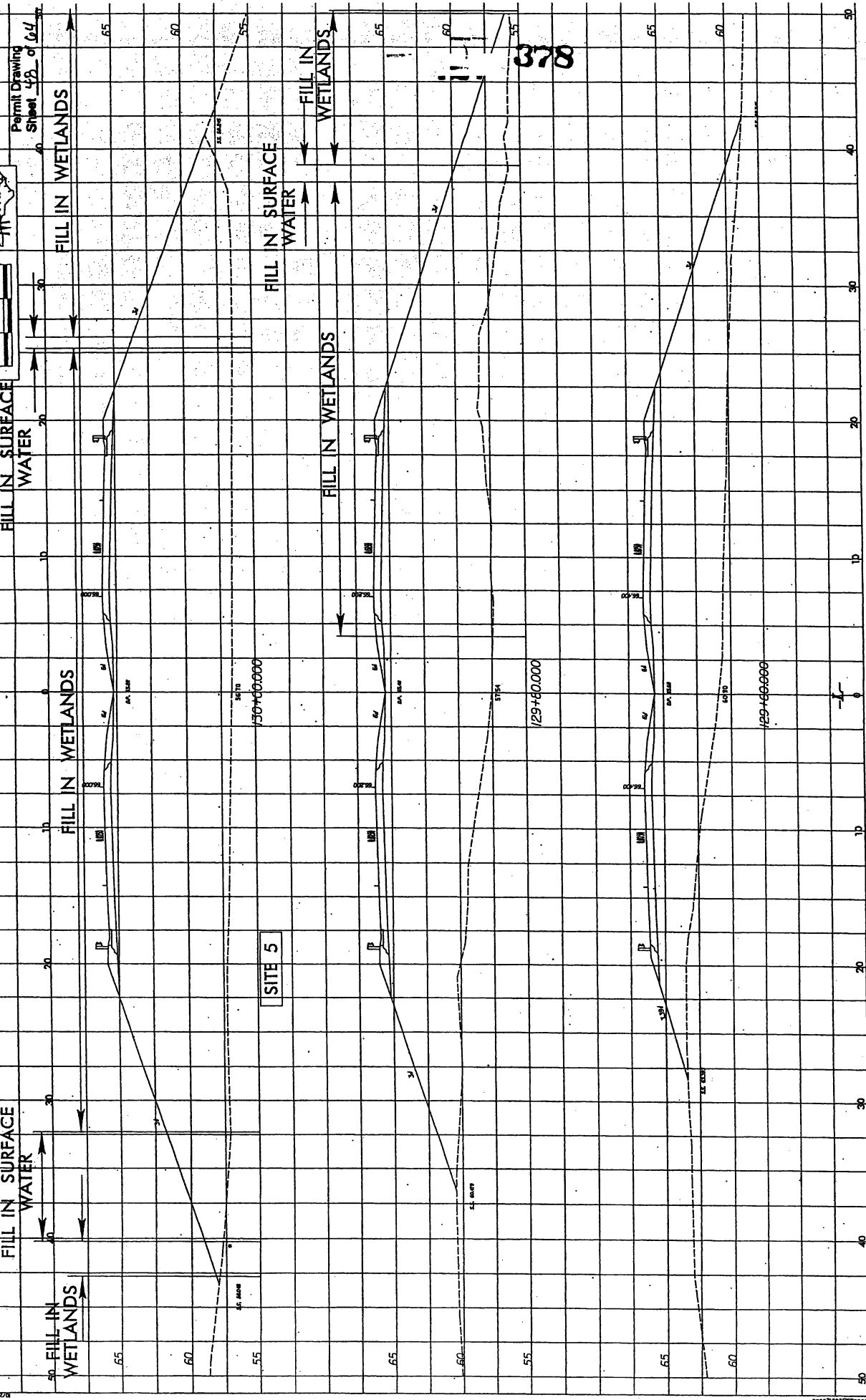
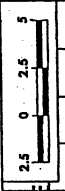
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SITE 4





FILL IN SURFACE WATER

FILL IN WETLANDS

FILL IN WETLANDS

FILL IN SURFACE WATER

FILL IN WETLANDS

SITE 5

FILL IN SURFACE WATER

FILL IN WETLANDS

FILL IN SURFACE WATER

FILL IN WETLANDS

378

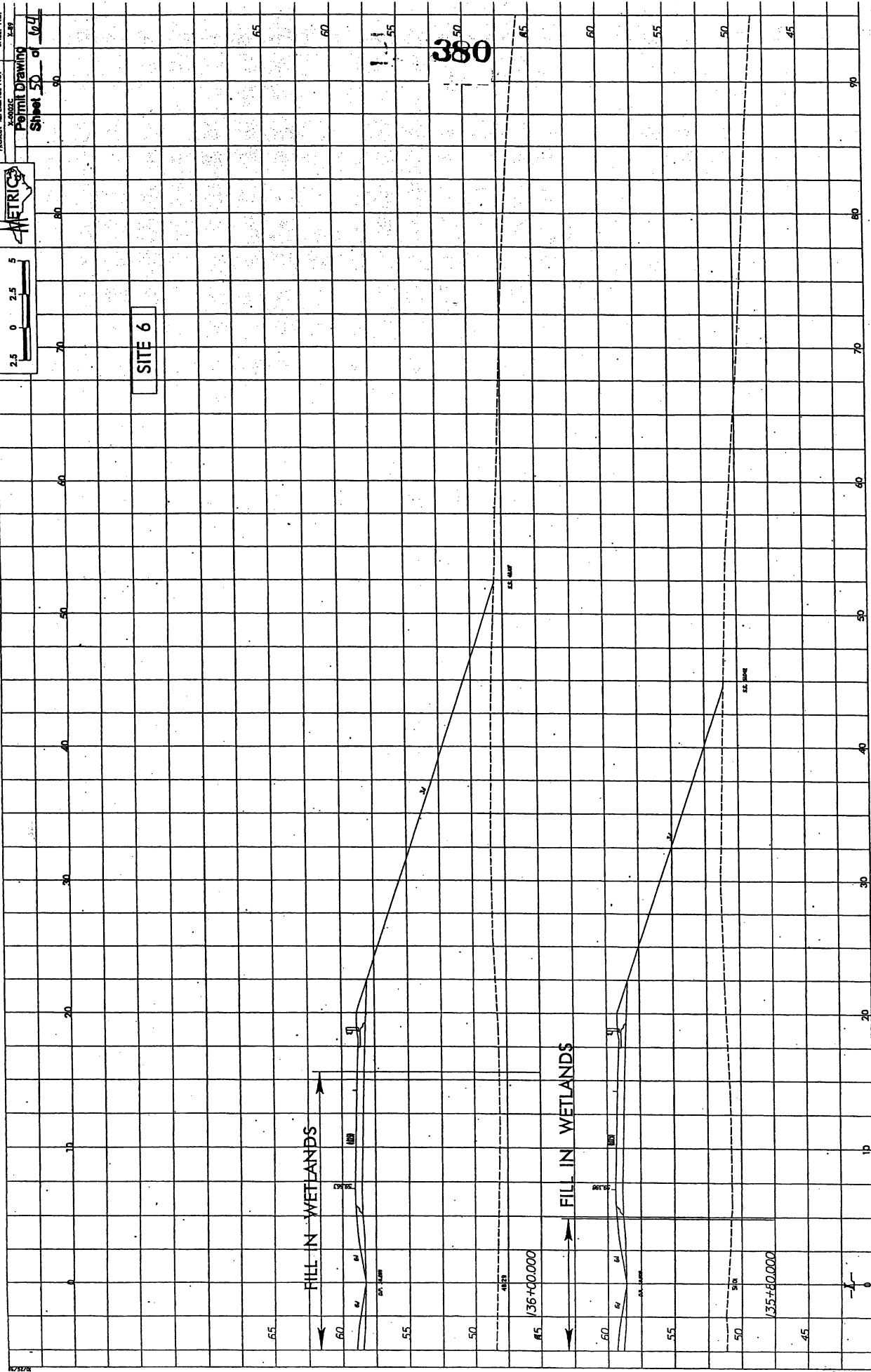
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2.5 0 2.5 5

Permit Drawing
Sheet 50 of 60

SITE 6



FILL IN WETLANDS

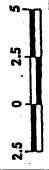
FILL IN WETLANDS

1/36400.000

1/35460.000

380

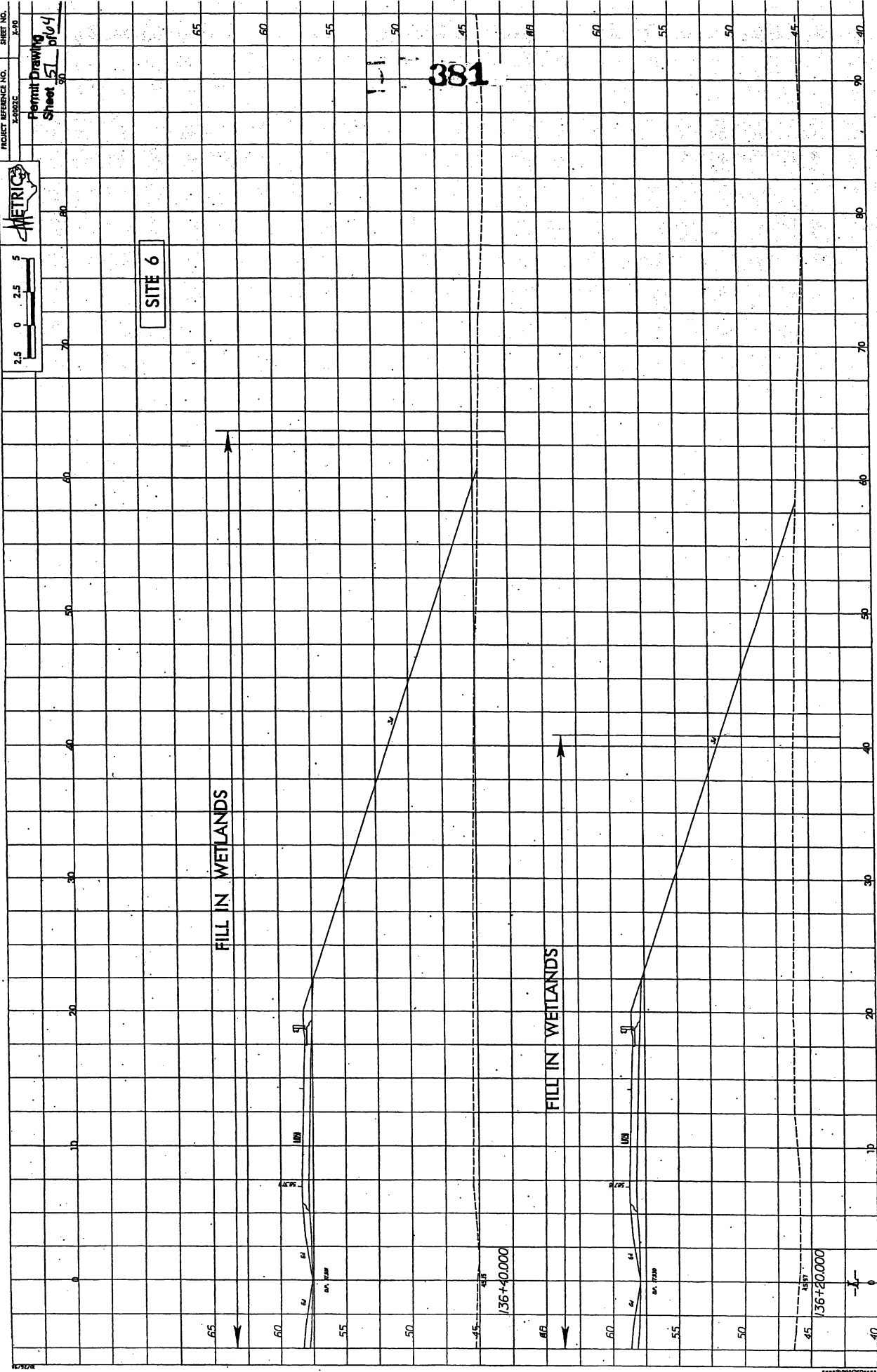




Permit Drawing
Sheet 151 of 164

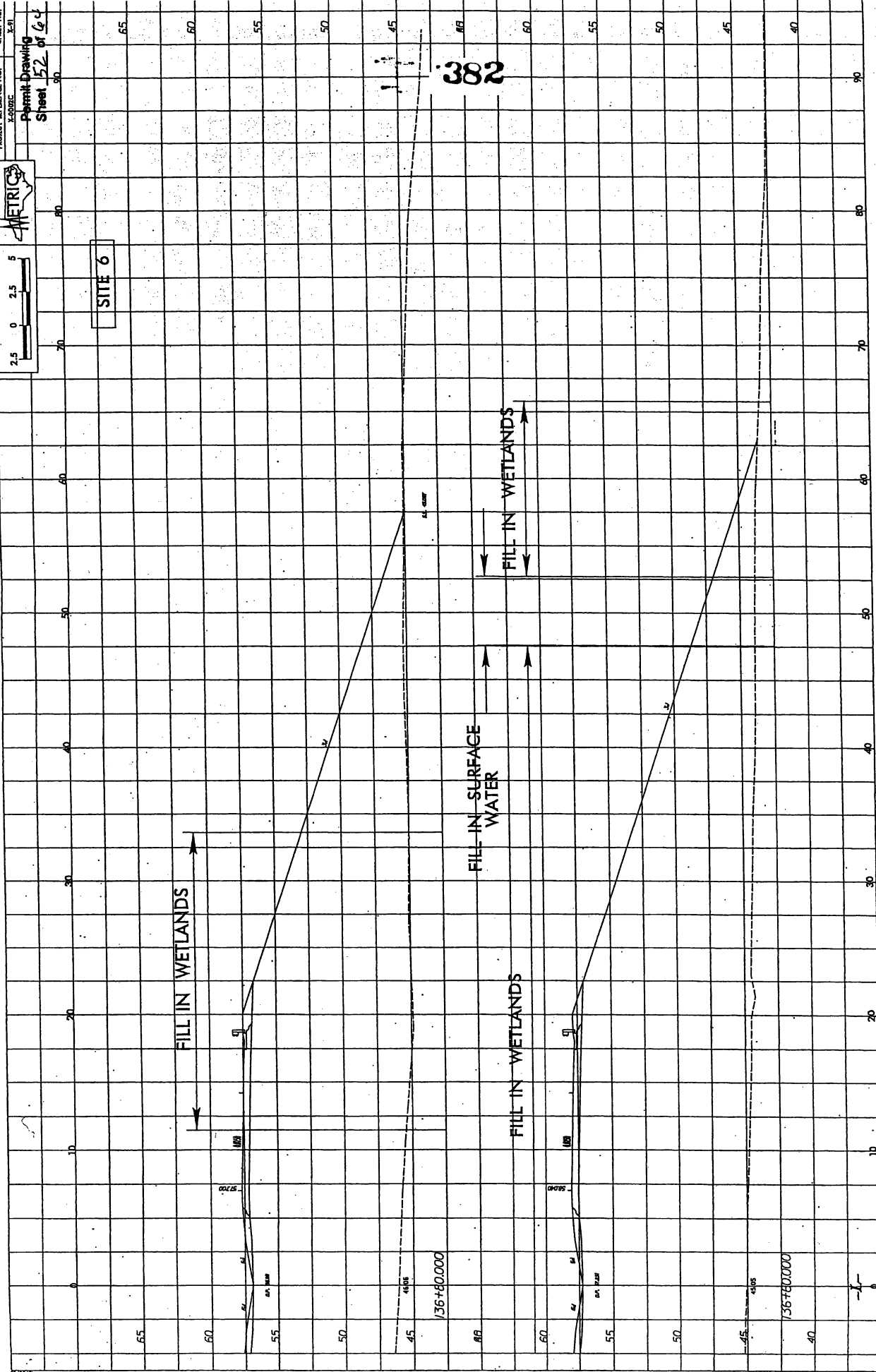
SITE 6

381





SITE 6



382

FILL IN WETLANDS

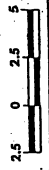
FILL IN SURFACE WATER

FILL IN WETLANDS

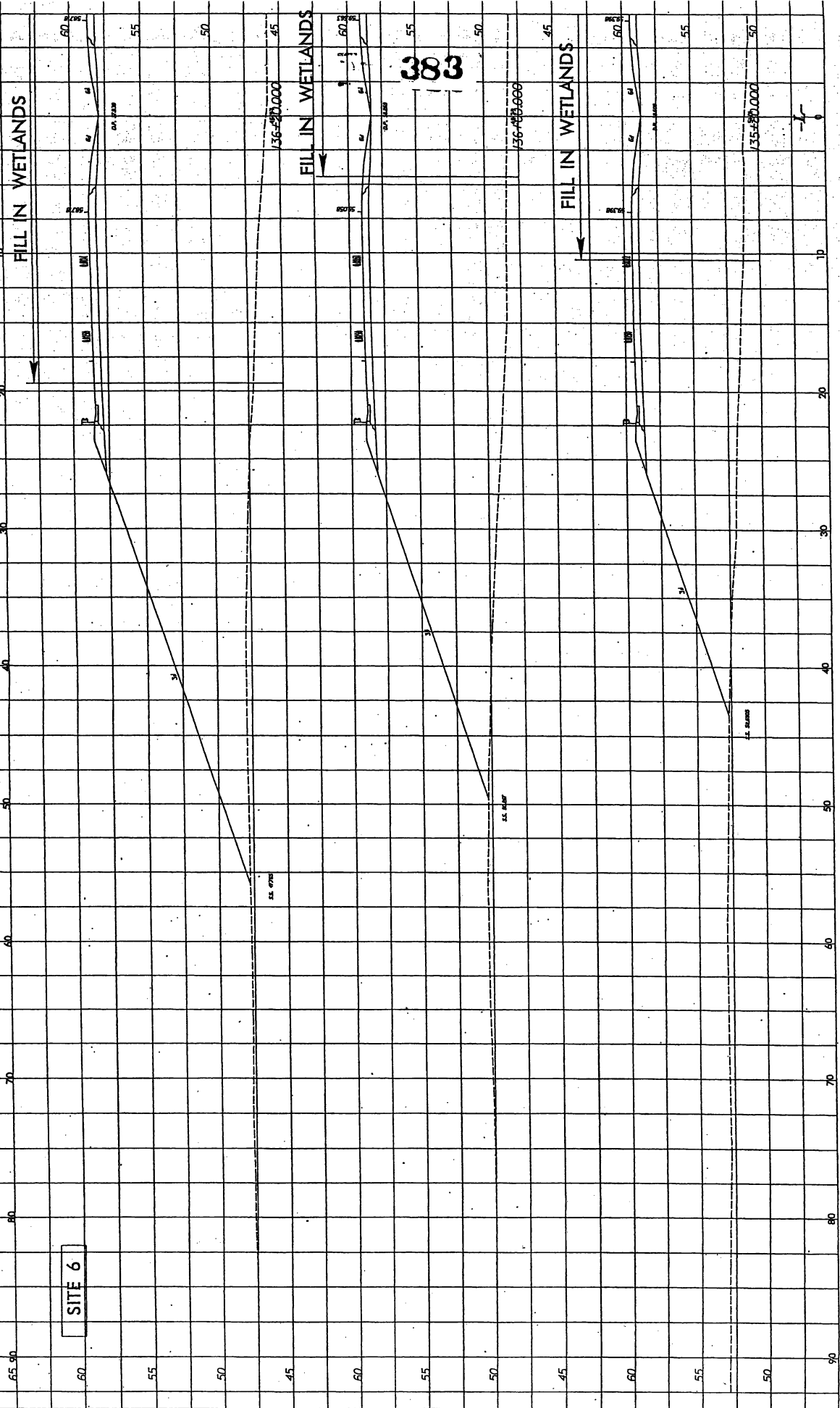
FILL IN WETLANDS



PROJECT REFERENCE NO. 2-2003C
SHEET NO. 2-109



Permit Drawing
Sheet 53 of 64



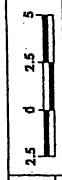
SITE 6

FILL IN WETLANDS

383

FILL IN WETLANDS

PROJECT REFERENCE NO. 3-0003C



SHEET NO. 5-110

Permit Drawing
Sheet 574 of 104

SITE 6

FILL IN WETLANDS

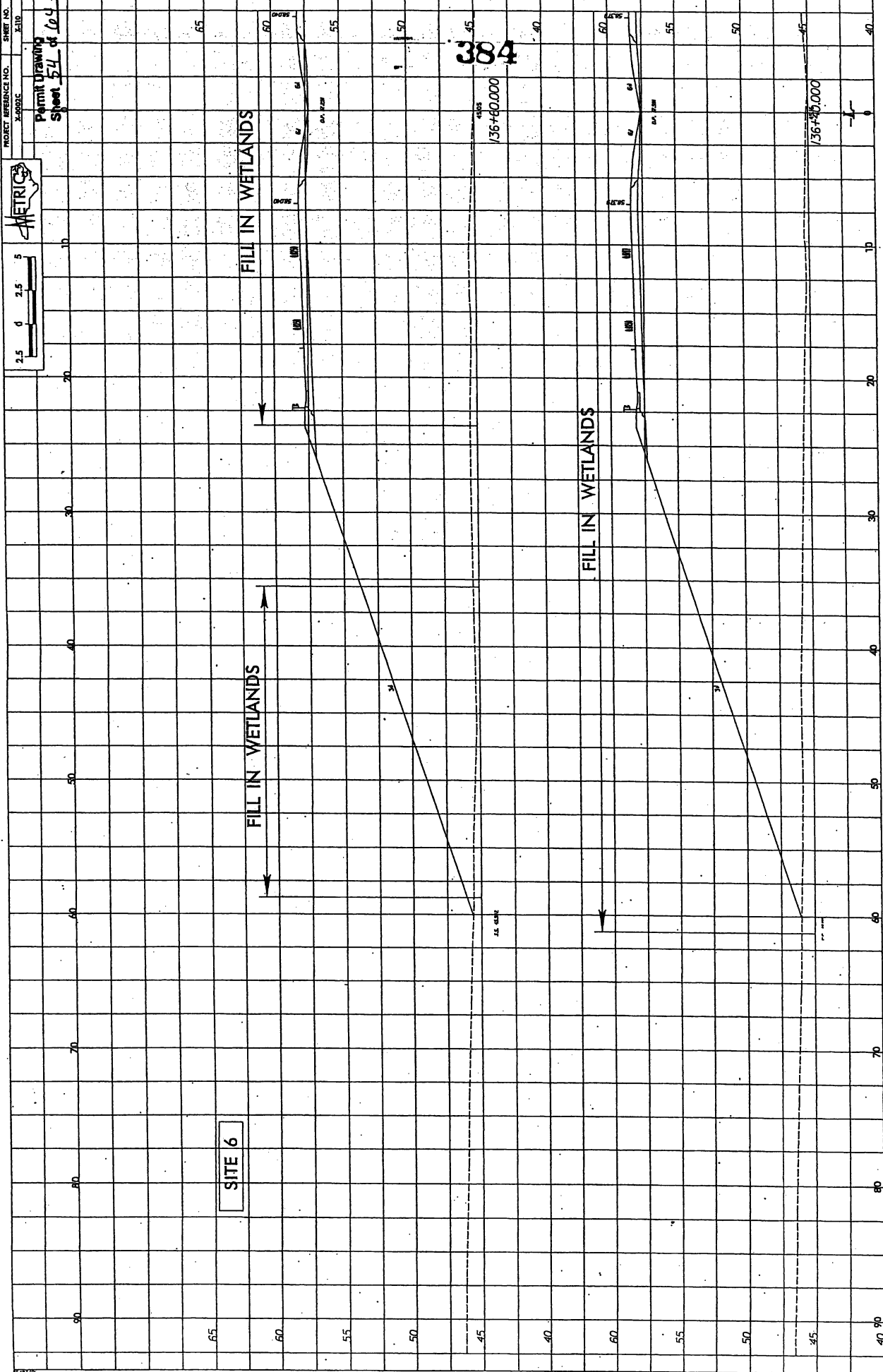
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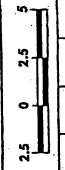
FILL IN WETLANDS

384

4502
136+40.000

4502
136+40.000

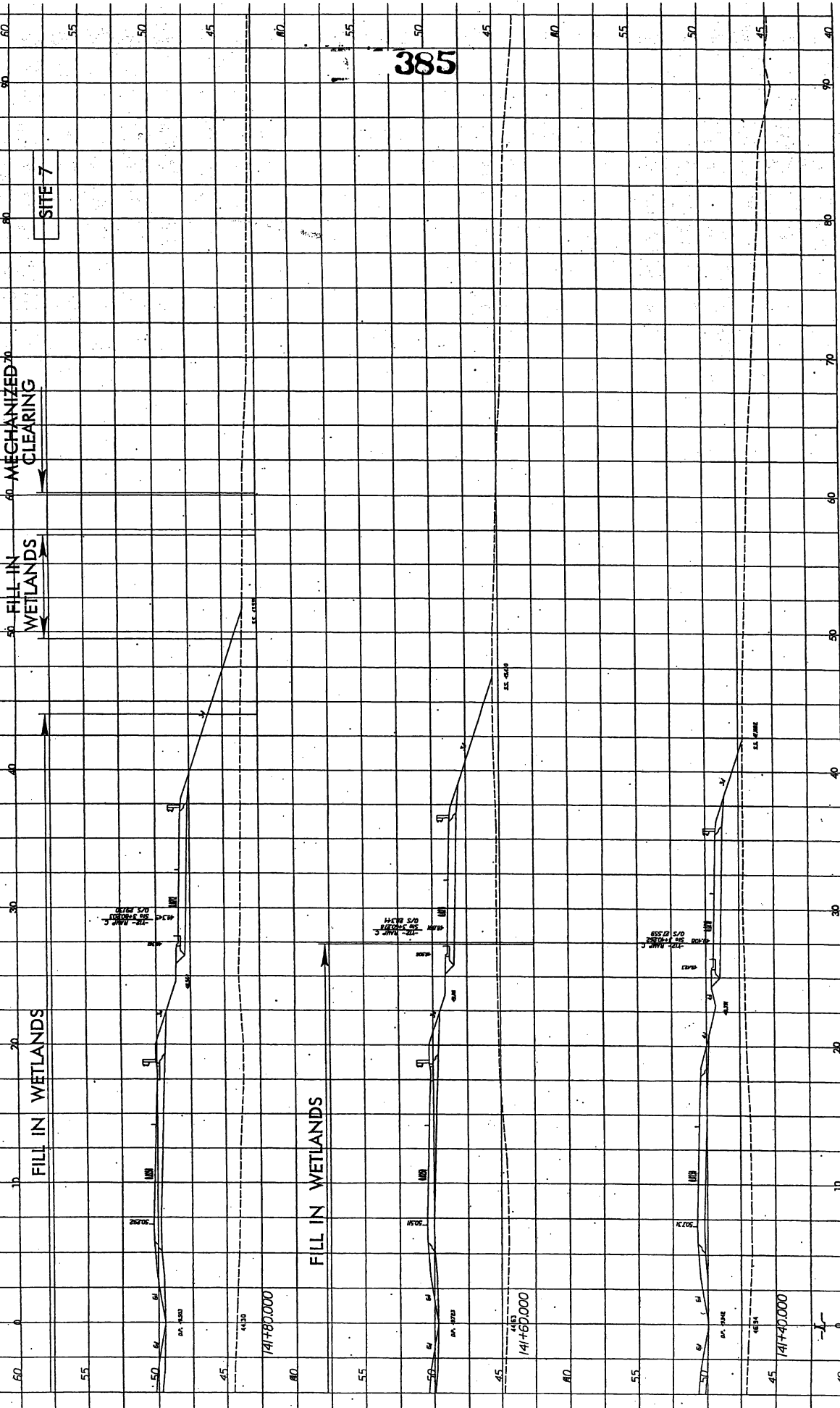




PROJECT REFERENCE NO. 240002

SHEET NO. 510B

Permit Drawing
Sheet 55 of 64



MECHANIZED CLEARING

FILL IN WETLANDS

FILL IN WETLANDS

FILL IN WETLANDS

FILL IN WETLANDS

FILL IN WETLANDS

FILL IN WETLANDS

SITE 7

FILL IN WETLANDS

385

141+80,000

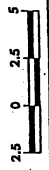
141+60,000

141+40,000

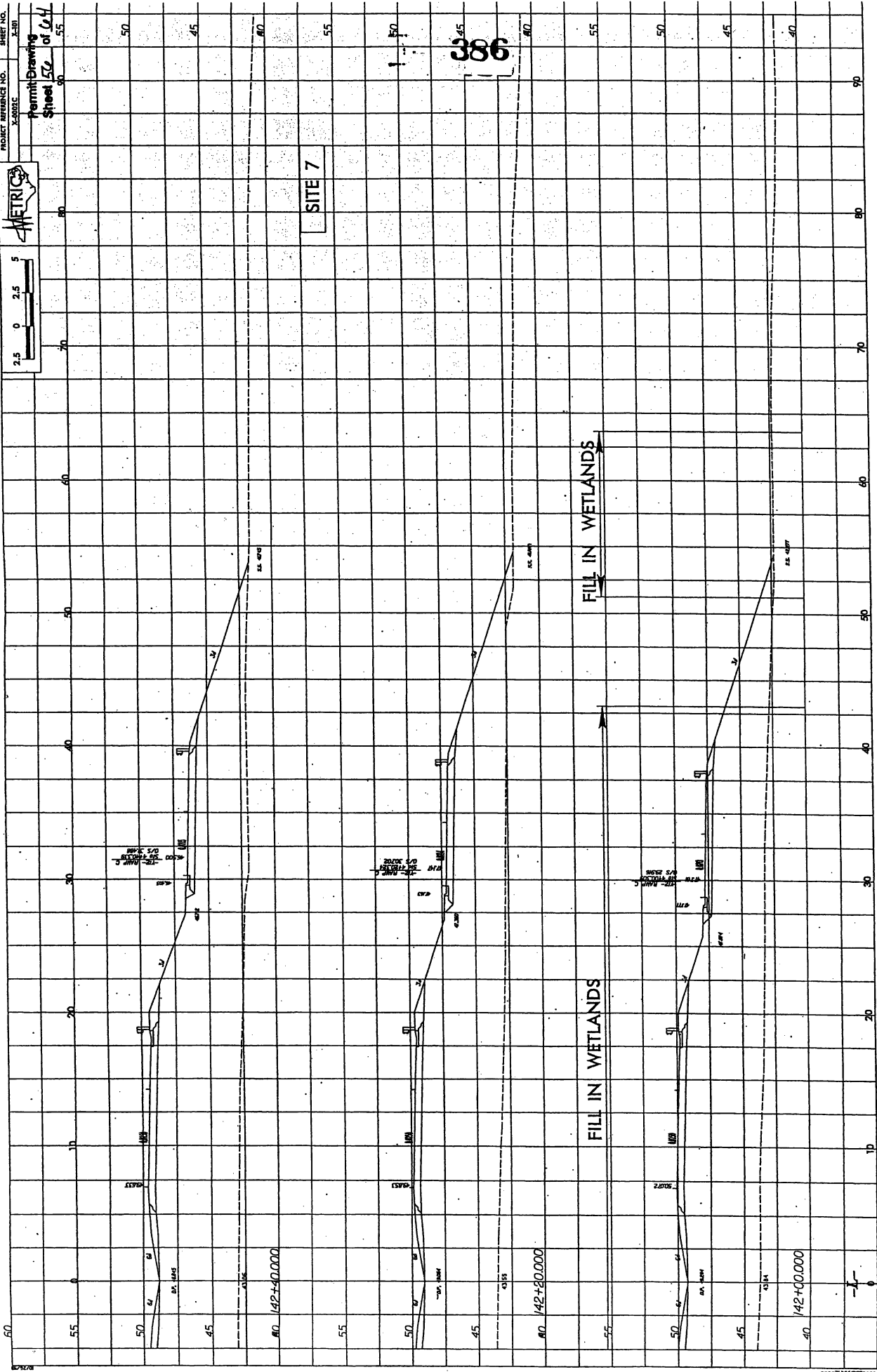
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50
PROJECT REFERENCE NO. SHEET NO. 2500



Permit Drawing of 04
Sheet 50



SITE 7

FILL IN WETLANDS

FILL IN WETLANDS

386

142+00.000

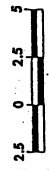
40 142+00.000

40 142+80.000

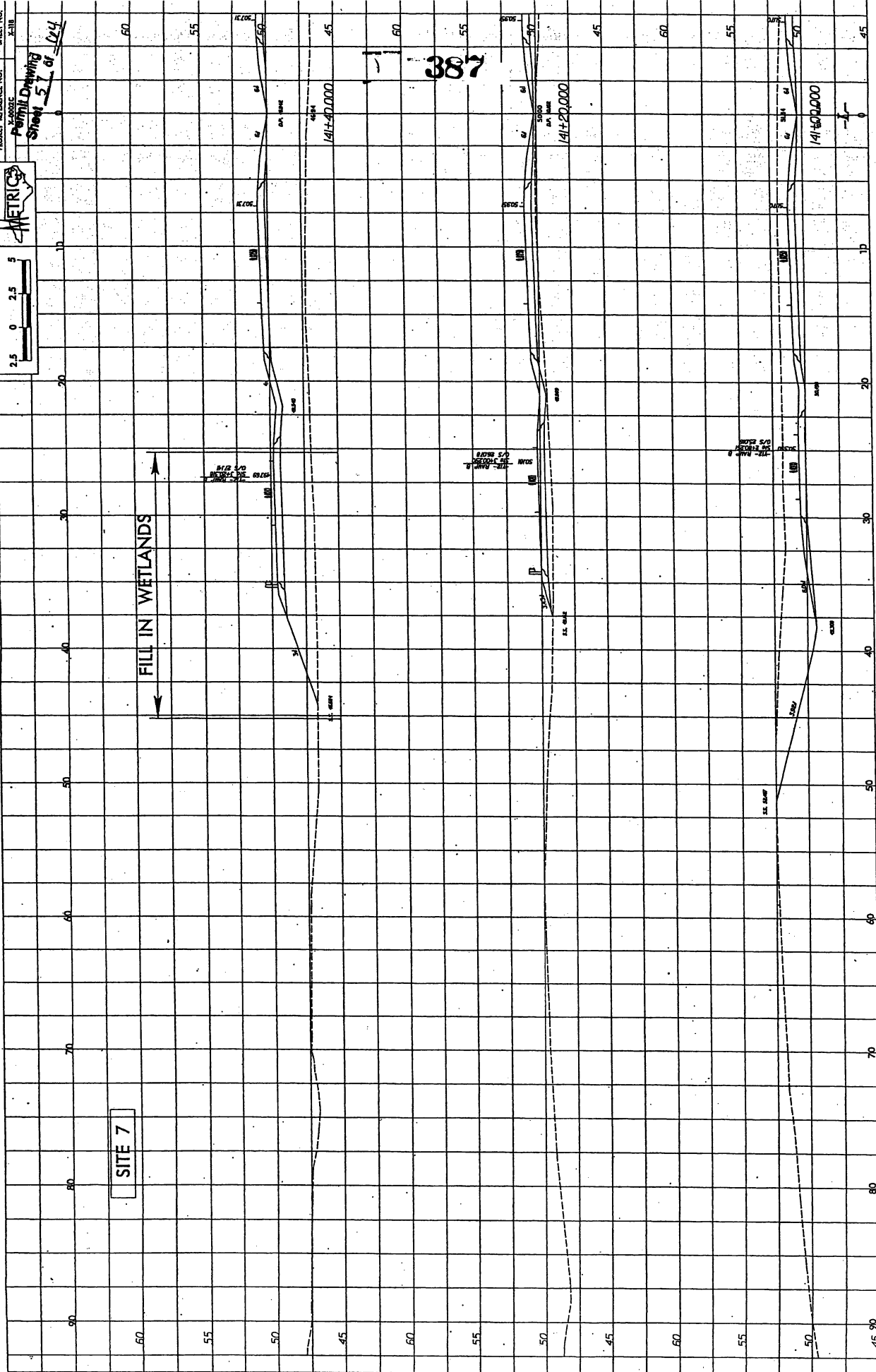
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PROJECT REFERENCE NO. 2-118



Sheet 57 of 124



SITE 7

387

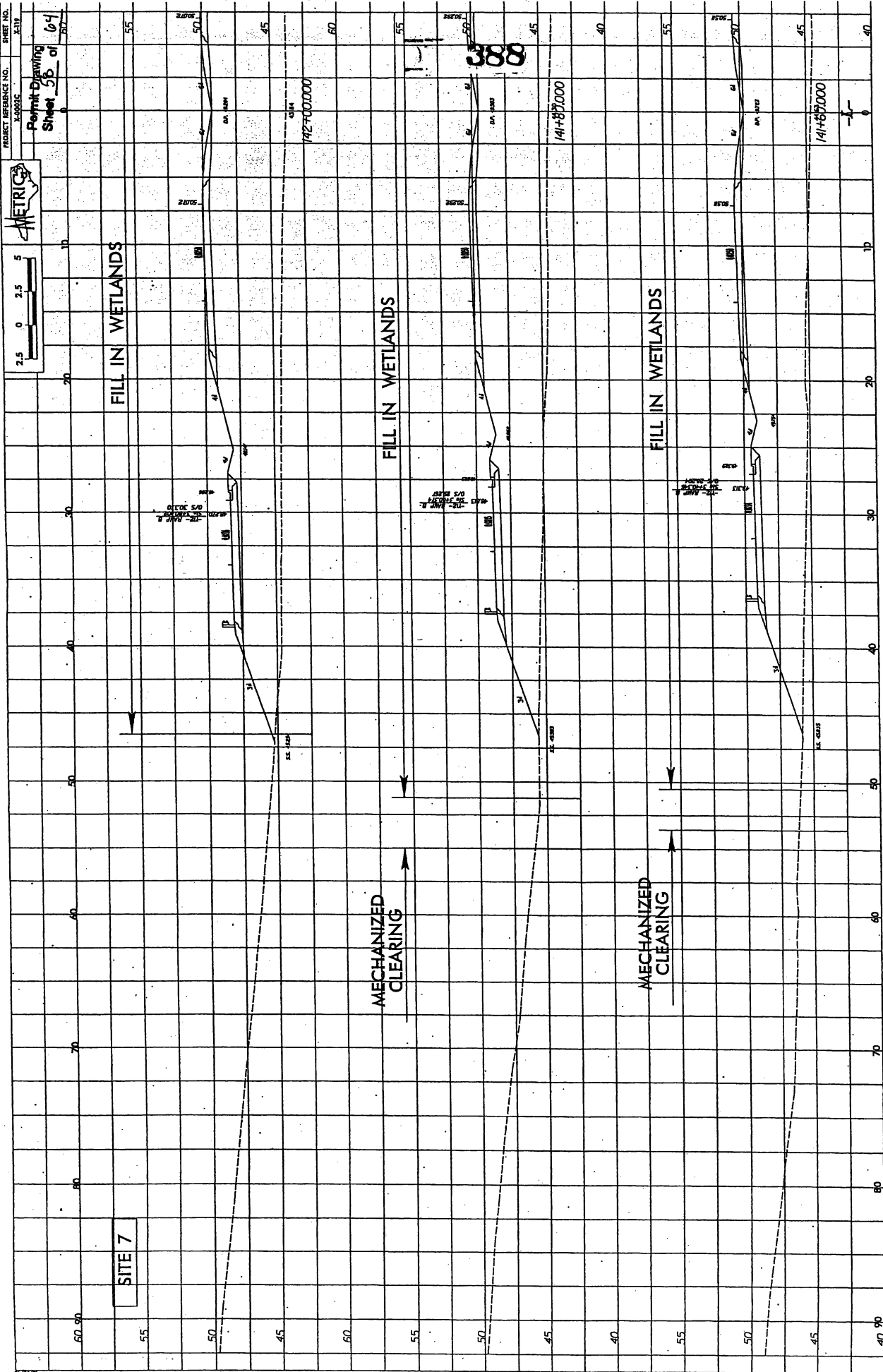
Small text at the bottom right corner, likely a scale or legend reference.

PROJECT REFERENCE NO. 3-00000

SHEET NO. 2-119



Permit Drawing
Sheet 58 of 64



SITE 7

FILL IN WETLANDS

FILL IN WETLANDS

FILL IN WETLANDS

MECHANIZED CLEARING

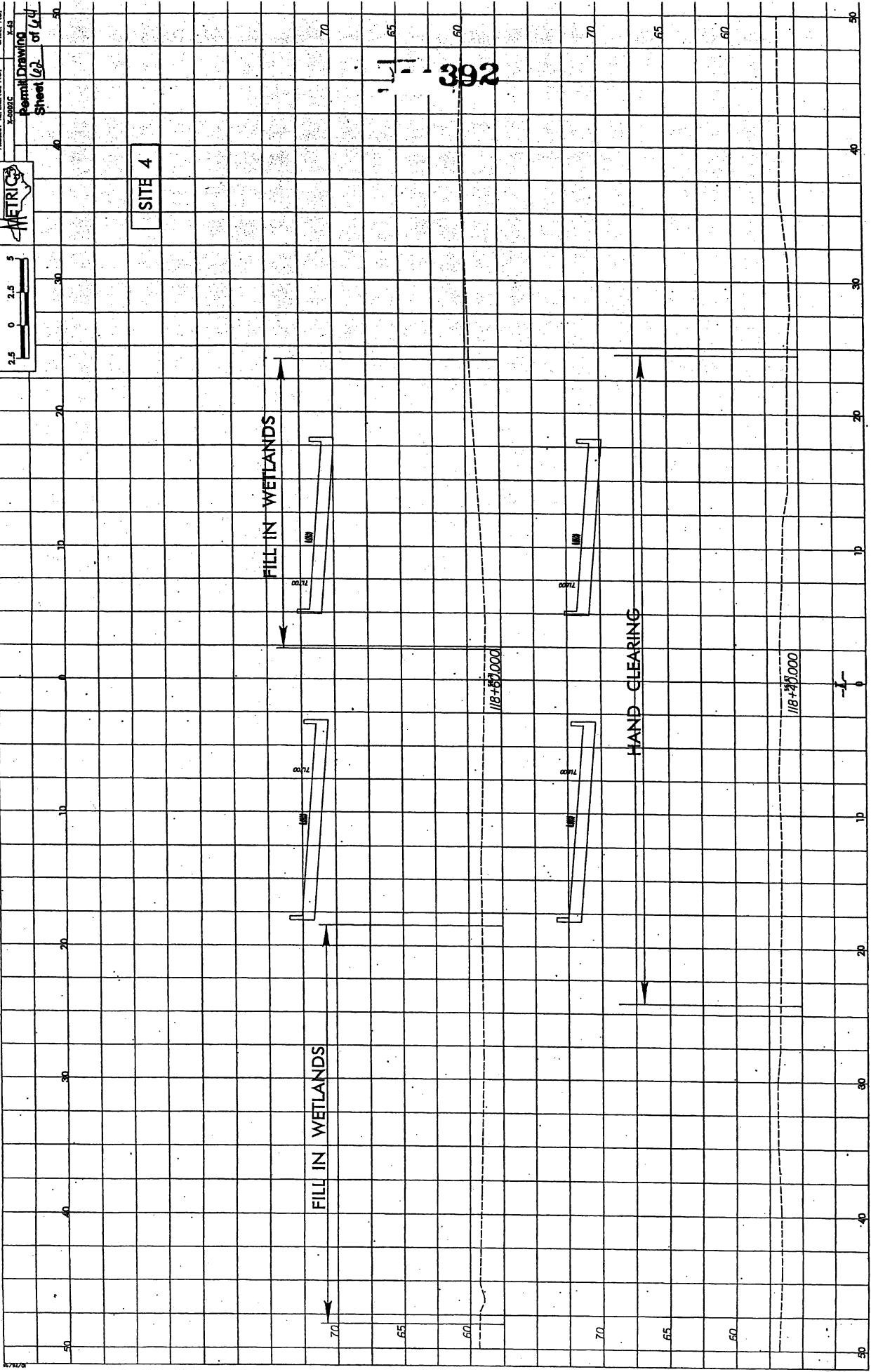
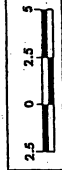
MECHANIZED CLEARING

388

141+87.000

142+00.000

141+87.000



392

FILL IN WETLANDS

FILL IN WETLANDS

HAND-CLEARING

SITE 4

118+00.000

118+40.000

7100

1800

7100

1800

7100

1800

7100

1800

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65

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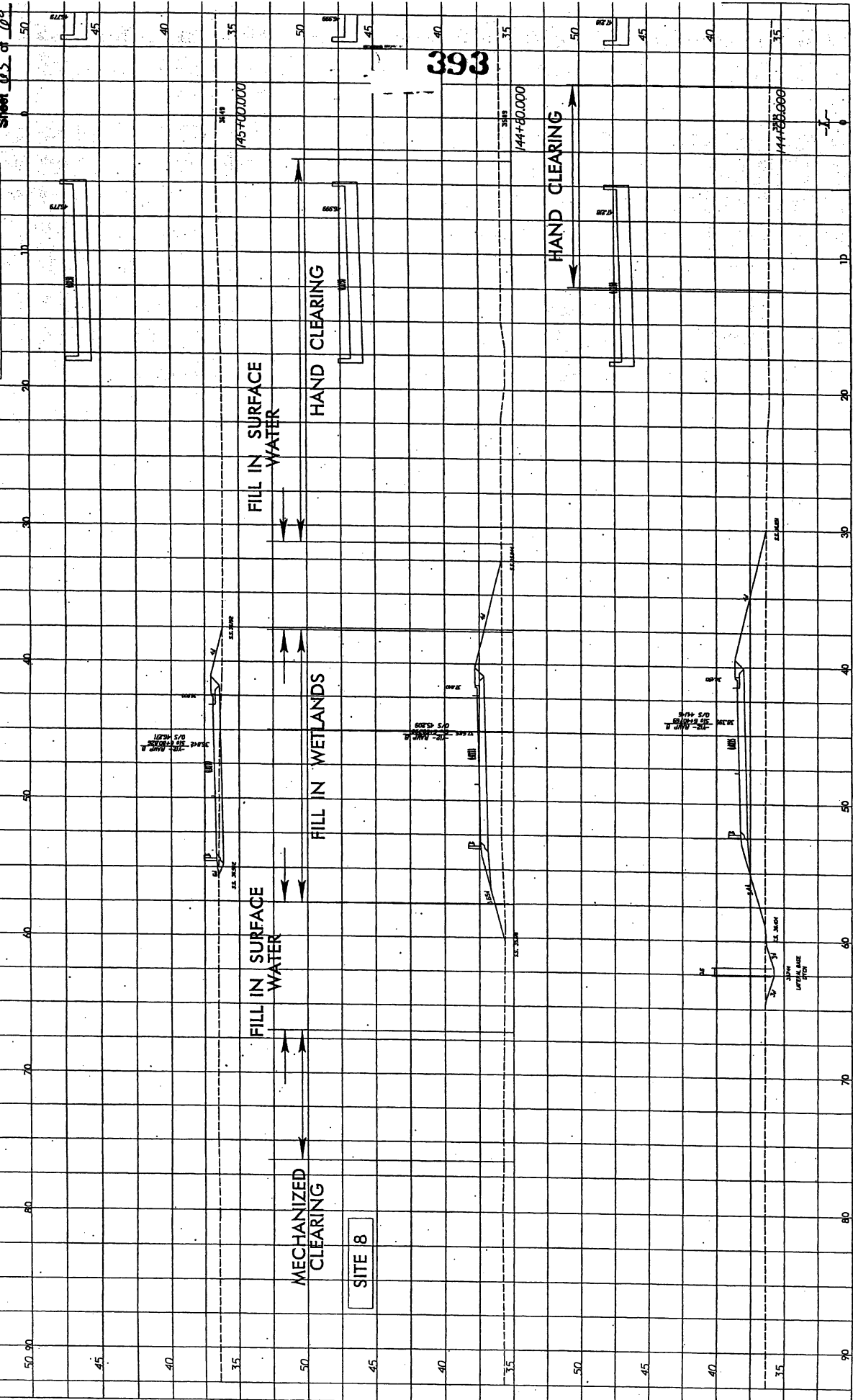
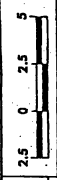
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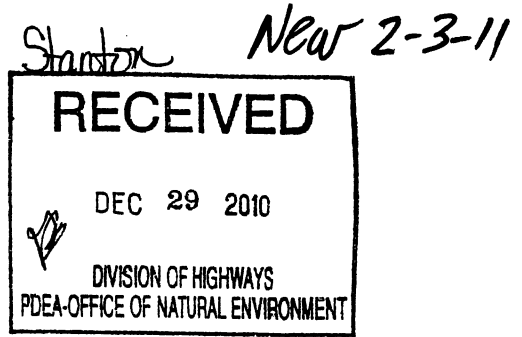
SITE 8



REPLY TO
ATTENTION OF:

395

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



December 21, 2010

Regulatory Division

Subject: Action ID No. 2008-01413, TIP No. U-2519 and X-0002, Fayetteville Outer Loop, Cumberland, Robeson and Hoke Counties, North Carolina.

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

Dear Dr. Thorpe:

I am responding to your requests dated June 1, 2010 and October 19, 2010 for modifications to the existing Department of the Army (DA) permit issued for the above referenced project on November 4, 2008.

The referenced Section 404 permit authorizes impacts to 48.43 acres of jurisdictional wetlands, 12,346 linear feet of important stream channel and 3.67 acres of open waters. The permit modification is proposed to include additional impacts that were not authorized by the November 4, 2008 Department of the Army permit. The project impacts proposed in the modification request include an additional 0.43 acres of wetland impacts, 410 linear feet of important stream channel impacts and 2.55 acres of open water pond impacts.

I have determined that the proposed project modifications described above are minor and are not contrary to the public interest and therefore, the DA permit is hereby modified. It is understood that all conditions of the original permit remain applicable and that the expiration date is unchanged

The permit modifications are as follows:

1. In order to compensate for impacts to 0.43 acres of riparian, non-riverine wetlands and 410 linear feet of warm-water stream, the permittee shall debit the Privateer Farms Stream and Wetland Mitigation Bank in the amount of 1.29 acres of restoration equivalent riparian, non-riverine wetlands and 615 linear feet of warm-water stream.

In accordance with the NC DOT Umbrella Mitigation Banking Instrument dated September 4, 2009, the permittee shall, within 30-days of the date of this permit

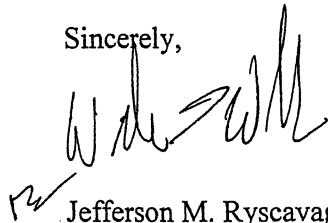
modification, provide two copies of the current debit ledger of the Privateer Farms Stream and Wetland Mitigation Bank to the :

U.S. Army Corps of Engineers
Wilmington Regulatory Field Office
69 Darlington Avenue, Wilmington North Carolina 28403

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

Should you have any questions, please contact Mr. Ronnie Smith, Wilmington Field Office, Regulatory Division, at telephone (910) 251-4829.

Sincerely,



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

Enclosures

Copies Furnished (with enclosures):

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

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

Pace Wilber, Ph.D., Chief
Charleston (F/SER47)
Southeast Regional Office, NOAA Fisheries
Post Office Box 12559
Charleston, South Carolina 29422-2559

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
Pivers Island
Beaufort, North Carolina 28516

Mr. Doug Huggett
Division of Coastal Management
N.C. Department of Environment
and Natural Resources
400 Commerce Avenue
Morehead City, North Carolina 28557

Copies Furnished (without enclosures):

Mr. Travis W. Wilson
N.C. Wildlife Resource Commission
1142 I-85 Service Road
Creedmoor, North Carolina 27522

Mr. Mason Herndon
N.C. Department of Environment
and Natural Resources
Division of Water Quality
225 Green Street, Suite 214
Fayetteville, North Carolina 28301-5094

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

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

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



North Carolina Department of Environment and Natural Resources

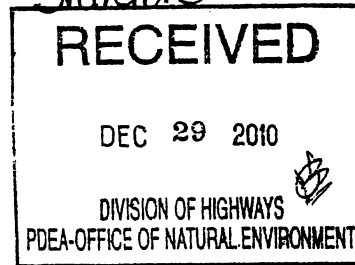
Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

December 16, 2010

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



Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to Fayetteville Outer Loop in Cumberland, Hoke and Robeson County, Federal Aid Project No. NHF-DPR-0100(001), State Project No. 8.244130, TIP X-002 B & C and U-2519.
NCDWQ Project No. 20080737 v. 3

Dear Dr. Thorpe:

Attached hereto is a modification of original Certification No. 3758 issued to The North Carolina Department of Transportation (NCDOT) dated October 6, 2008 and modification dated June 3, 2010.

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

Sincerely,

for Coleen H. Sullins
Director

Attachments

- cc: Ronnie Smith, US Army Corps of Engineers, Wilmington Field Office
- Greg Burns, PE, Division 6 Engineer
- Jim Rerko, Division 6 Environmental Officer
- Chris Militscher, Environmental Protection Agency (electronic copy only)
- Travis Wilson, NC Wildlife Resources Commission
- Leilani Paugh, NCDOT, NEU Mitigation
- Sonia Carrillo, NCDWQ Central Office
- File Copy

225 Green St., Suite 714, Fayetteville, NC 28301-5043
Phone: 910-433-3300 \ FAX: 910-486-0707
Internet: www.ncwaterquality.org

One
North Carolina
Naturally

Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H .0500. This certification modification authorizes the NCDOT to impact an additional 0.19 acres of jurisdictional wetlands and 410 linear feet of jurisdictional streams in Cumberland County. The project shall be constructed pursuant to the modification dated received October 14, 2010. The new authorized impacts are as described below:

Revised X-0002C (Site 8) Stream Impacts in the Cape Fear River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
Original approved impacts at Site 8	509				509	
New additional impacts with this approval at Site 8	410				410	410
Total	919				919	410

Revised Total Stream Impact for Site 8: 919 linear feet

Revised X-0002C (Site 8) Wetland Impacts in the Cape Fear River Basin (non-riverine)

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Area under Bridge (ac)	Total Wetland Impact (ac)
Original approved impacts at Site 8	0.09			0.04	0.21		0.13
New revised impacts with this approval at Site 8	0.29			0.03	0.00		0.32
Total	0.29			0.03	0.00		0.32

Revised Total Wetland Impact for Site 8: 0.32 acres.

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

This approval is only valid for the purpose and design that you submitted in your modified application dated received October 14, 2010. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated October 6, 2008 and modification dated June 3, 2010 still apply except where superceded by this certification. Should your project change, you are required to notify NCDWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

400

1. Compensatory mitigation for the additional 0.19 acres of wetland impacts is required at a 2:1 ratio. Compensatory mitigation for the additional 410 feet of stream impacts is required at 1.5:1 ratio. We understand that you have chosen to debit mitigation from Privateer Farm Mitigation Bank. This certification gives you approval to debit 0.38 acres of wetland mitigation and 615 ft of stream mitigation from the Privateer Mitigation Site to satisfy the mitigation requirements of this permit modification.
2. All other conditions written into previous Water Quality Certifications dated October 6, 2008 and June 3, 2010 for this project still apply.

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

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

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

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

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

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

This the 16th day of December 2010

DIVISION OF WATER QUALITY

Coleen H. Sullins
Director

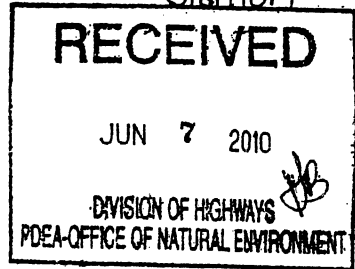


North Carolina Department of Environment and Natural Resources

Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Stanton



Dee Freeman
Secretary

June 3, 2010

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

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water with ADDITIONAL CONDITIONS for Proposed Fayetteville Outer Loop in Cumberland, Hoke and Robeson Counties, Federal Aid Project No. NHF-DPR-0100(001), State Project No. 8.2441301, TIP Nos. X-002 B&C and U-2519.
DWQ Project No. 20080737 ver. 2.

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 3758 issued to The North Carolina Department of Transportation (NCDOT) originally dated October 6, 2008.

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

Sincerely,

for Coleen H. Sullins
Director

Attachments

- cc: Tom Walker, US Army Corps of Engineers, Wilmington Field Office
- Jim Kerko, Division 6 Environmental Officer
- LeiLani Paugh, NCDOT NEU
- NCDWQ Fayetteville Regional Office
- File Copy

**Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act
with ADDITIONAL CONDITIONS**

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H .0500. This certification modification authorizes the NCDOT to impact an additional 0.24 acres of jurisdictional wetlands in Cumberland County. The project shall be constructed pursuant to the modification dated received May 27, 2010. The new authorized impacts are as described below:

Additional Section X-002 C Wetland Impacts in the Cape Fear River Basin

Site	Permanent Fill (ac)	Excavation (ac)	Mechanized Clearing (ac)	Total Wetland Impact (ac)
10	0.19	0.01	0.04	0.24
Total	0.19	0.01	0.04	0.24

Total Additional Wetland Impact for Section X-002 C: 0.24 acres.

Revised Section X-002 C Open Water (Ponds) Impacts in the Cape Fear River Basin

Site	Permanent Fill in Open Waters (ac)
3	0.73
9	2.53
Total	3.26

Revised Total Open Water Impact for Section X-002 C: 3.26 acres.

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

This approval is only valid for the purpose and design that you submitted in your modified application dated received May 27, 2010. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated October 6, 2008 still apply except where superceded by this certification. Should your project change, you are required to notify NCDWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Conditions of Certification:

1. Compensatory mitigation for 0.24 acres of wetlands is required at a 2:1 ratio. We understand that you have chosen to debit mitigation from the Privateer Farm Mitigation Bank. This certification gives approval to the debiting of 0.48 acres of wetland mitigation from the Privateer Farms Mitigation Site in order to satisfy the mitigation requirements of this project modification.
2. All other conditions written into previous Water Quality Certification dated October 6, 2008 for this project still apply.

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, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. 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 3rd day of June 2010

DIVISION OF WATER QUALITY



for Coleen H. Sullins
Director

WQC No. 3758

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS							
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Natural Stream Design - (ft)			
1	83+50-85+00 -L-	72" RCP	1.11		0.03	0.10				0.04			279	
2	92+90-93+80 -L-	42" RCP	0.50		0.02	0.08				0.86			775	
3	105+15-105+70 -L-	2 @ 6' x 7' RCBC	0.76			0.05								
4	117+95-118+70 -L-	325' Bridge	0.36			0.08		0.55						
5	129+60-130+20 -L-	54" RCP	0.69			0.06				0.02			361	
6	135+55-137+00 -L-	60" RCP	1.68			0.09				0.04			479	
7	141+30-142+30 -L-	36" RCP	1.55			0.05				0.01			213	
8	144+45-144+90 -L-	48" RCP	0.29			0.03				0.11			919	
9	14+20 -Y-Rev	2 @ 6' x 7' RCBC								2.54			98	
10	13+66-14+06 -Y1-	48" RCP	0.19		0.01	0.04				0.01			207	
TOTALS:			7.12		0.06	0.59		0.55		3.63			3332	

SITE 10: LATERAL EFFECT ON WETLAND DUE TO EXCAVATION = 0.01 ac

FILL IN SURFACE WATERS (POND)

SITE 3: 0.73 ac

SITE 9: 2.53 ac

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY
WBS - 35196.1.2 (X-0002C)

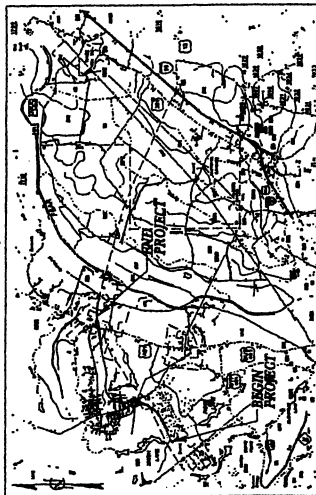
SHEET REV. 7/28/2010

Permit Drawing
Sheet 3 of 64

TIP PROJECT: X-0002C

CONTRACT: C201979

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY

LOCATION: NC 24 EXTENSION (FAYETTEVILLE OUTER LOOP)
FROM 1.3 MILES EAST OF NC87-NC210 TO WEST OF US401

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES,
SIGNING AND SIGNALS

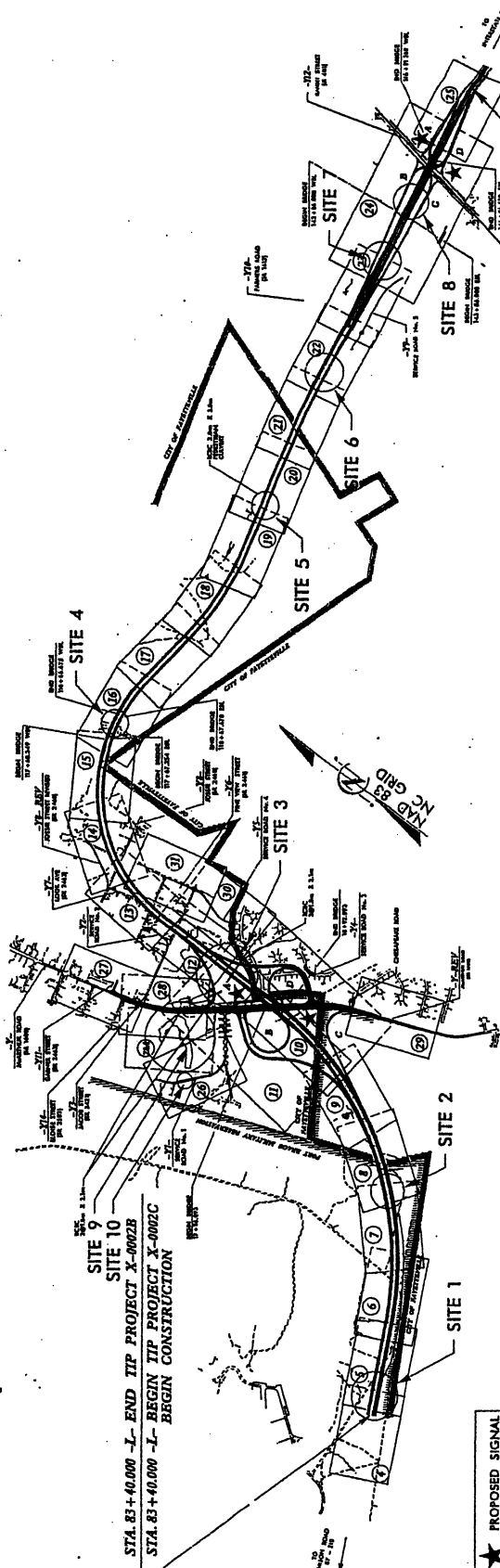
WETLAND/STREAM
IMPACTS

Permit Drawing Rev. 4/17/10
Sheet 9 of 04

STATE	N.C.	PROJECT NUMBER	X-0002C
COUNTY	CUMBERLAND	DESIGNATION	ROADWAY
SECTION	3519A.1.2	DATE	P.E.
SECTION	3519A.2.4	DATE	ROW & UTIL.
SECTION	3519A.3.16	DATE	CONST.



ALL DIMENSIONS IN METERS
THREE PLANS ARE IN METERS



★ PROPOSED SIGNAL

THIS IS A CONTROLLED ACCESS PROJECT
WITH ACCESS LIMITED TO INTERCHANGES

STA. 83+40.000 -L- END TIP PROJECT X-0002B
STA. 83+40.000 -L- BEGIN TIP PROJECT X-0002C
BEGIN CONSTRUCTION

STA. 149+80.000 -L- END TIP PROJECT X-0002C
END CONSTRUCTION

GRAPHIC SCALES

PLANS	1" = 100'
PROFILE (HORIZONTAL)	1" = 100'
PROFILE (VERTICAL)	1" = 20'

DESIGN DATA

ADT 2008	= 34,700
ADT 2030	= 59,600
DRV	= 9 %
D	= 4.55 %
T	= 10 %
V	= 110 km/h

* (TST 4 % DUAL 6 %)
FUNC. CLASS = INTERSTATE

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT X-0002C	= 6.166 km
LENGTH STRUCTURES TIP PROJECT X-0002C	= 0.404 km*
TOTAL LENGTH OF TIP PROJECT X-0002C	= 6.570 km

* NOTE: LENGTH BASED ON WBL BRIDGES

Prepared in the Office of
MORRITT & MORRIS
1100 W. HARRIS STREET, SUITE 100, RALEIGH, NC 27603
WWW.MORRITTANDMORRIS.COM

RIGHT OF WAY DATE
MAY 31, 2006

LETTING DATE:
NOVEMBER 18, 2008

T.R. REID, P.E.
PROJECT ENGINEER

J.E. HUFFMAN, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
SDG
Sandy Design Group, P.L.L.C.
1000 W. HARRIS STREET, SUITE 100, RALEIGH, NC 27603
TEL: 919.877.1111 FAX: 919.877.1112

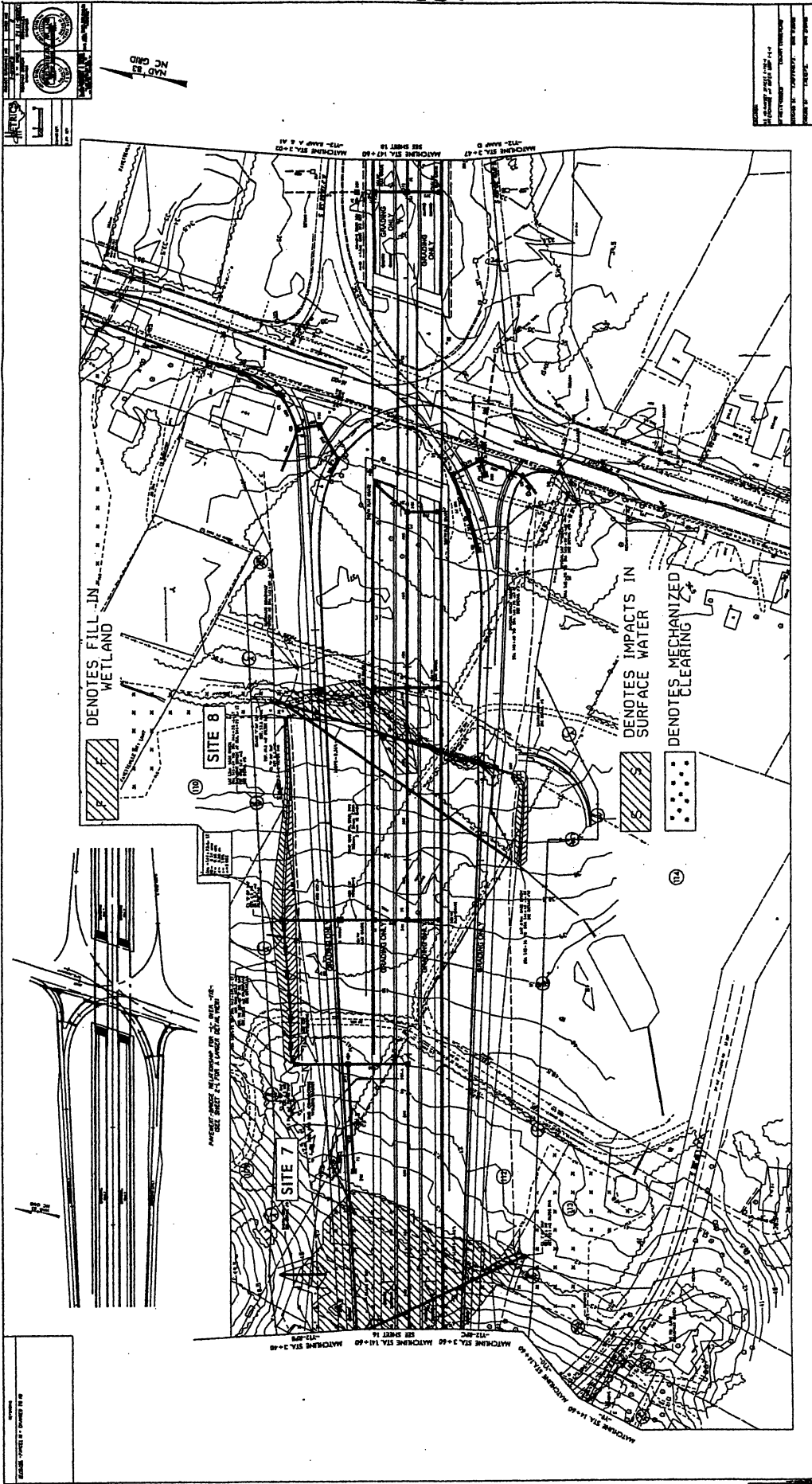
ROADWAY DESIGN ENGINEER
MORRITT & MORRIS
1100 W. HARRIS STREET, SUITE 100, RALEIGH, NC 27603
TEL: 919.877.1111 FAX: 919.877.1112

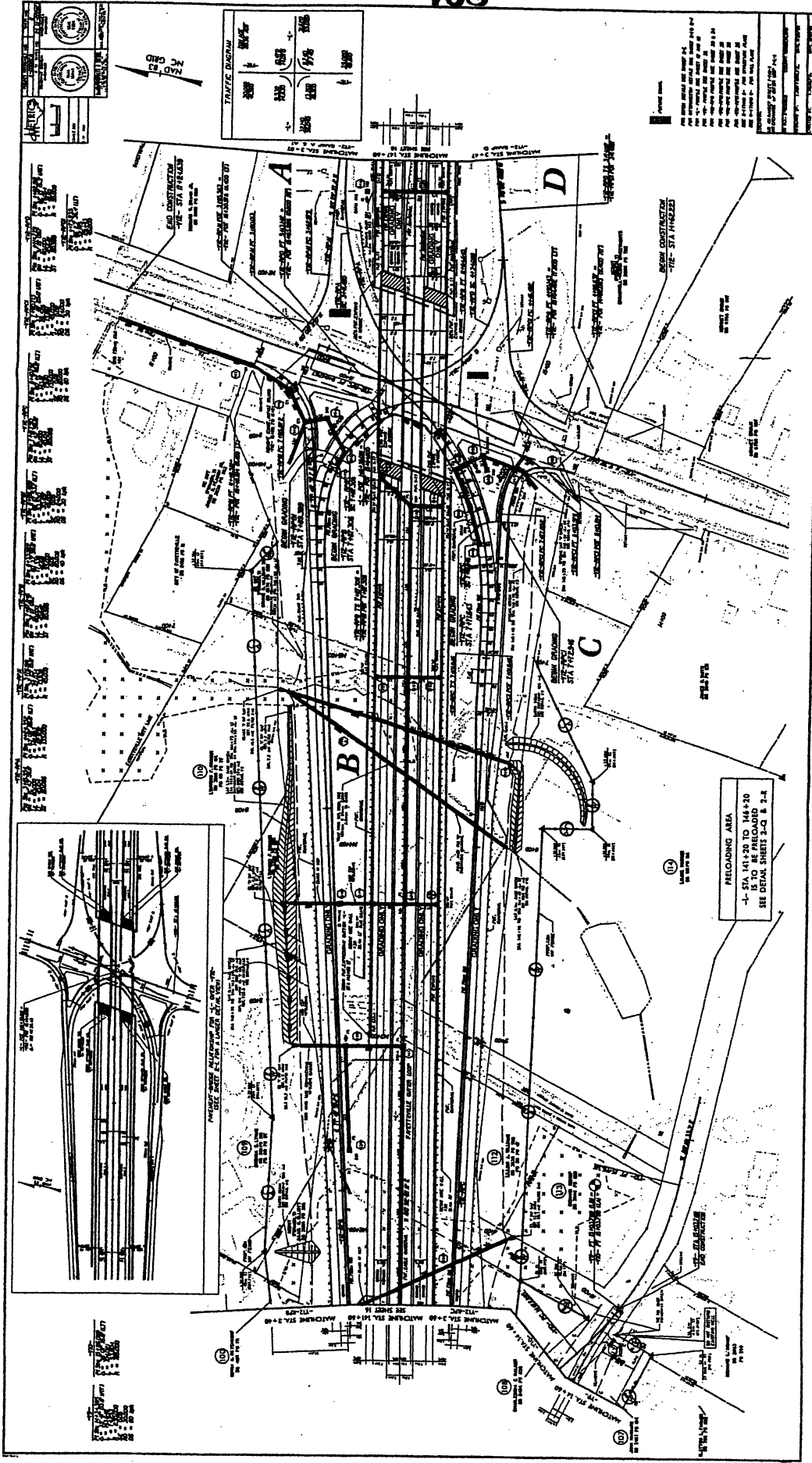
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
IN COMPLIANCE WITH PLANES
IN CONTRACT DOCUMENTS

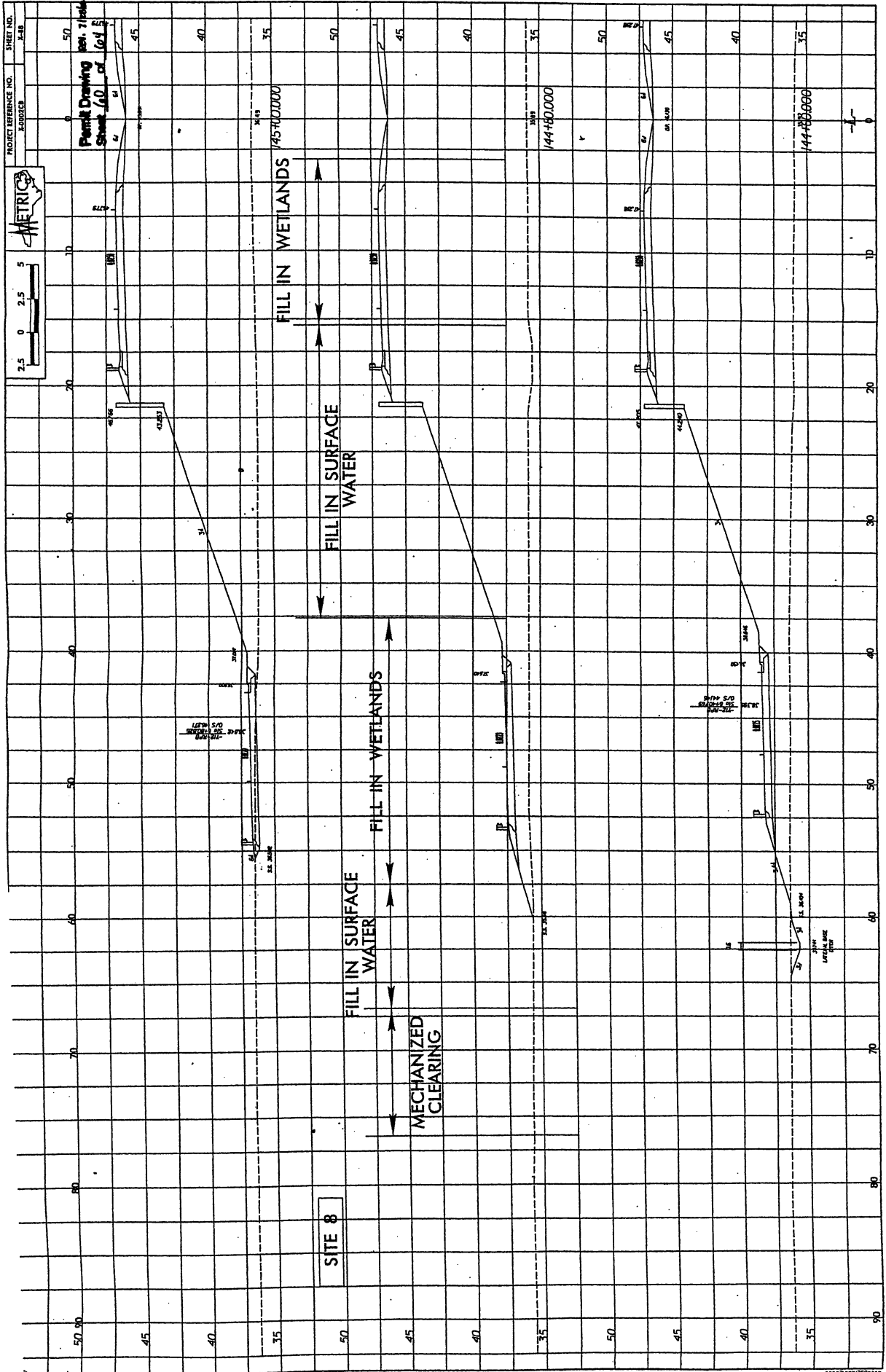
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.





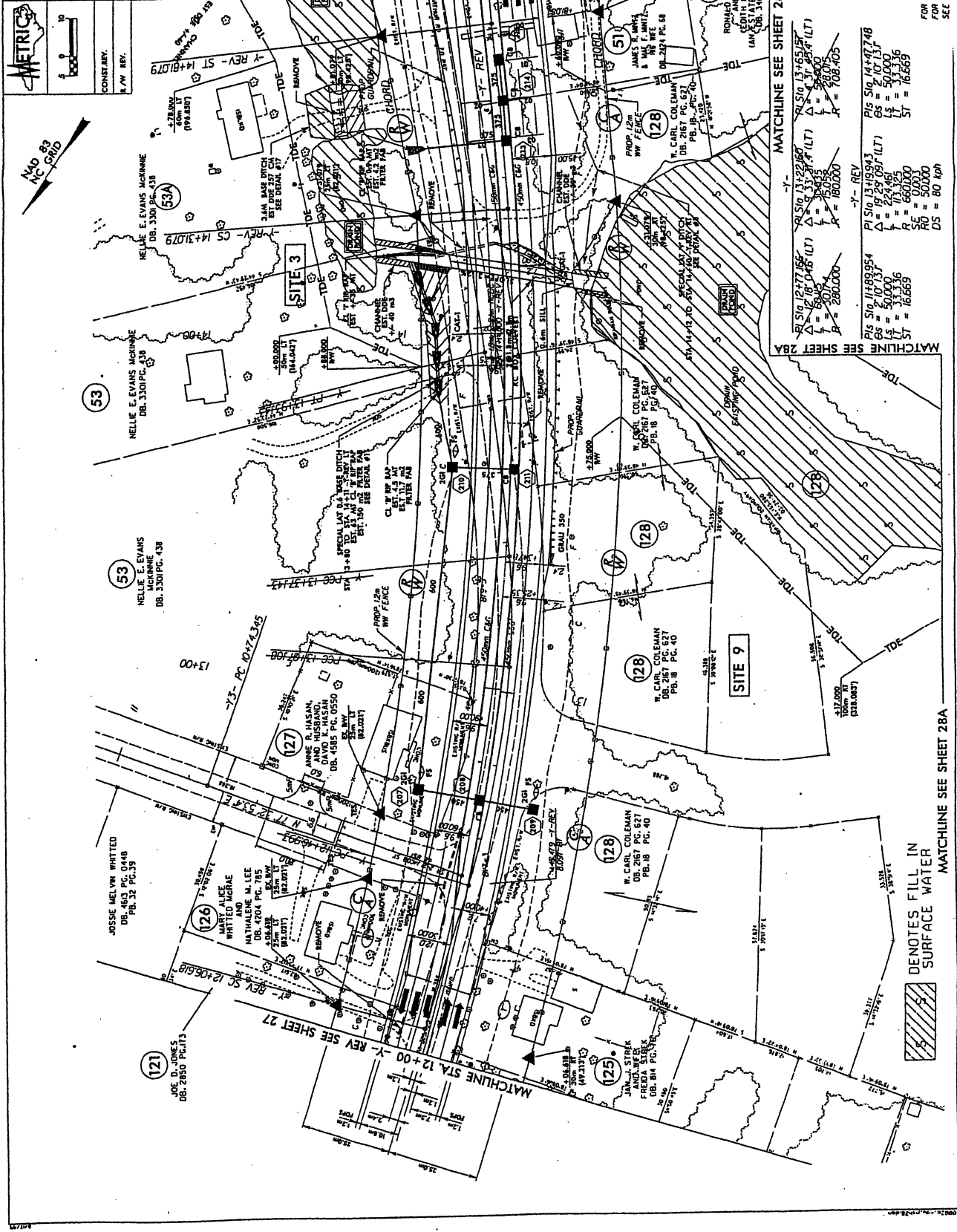




PROJECT REFERENCE NO. 7-0002C
 SHEET NO. 28
 LAY SHEET NO. 1
 ROADWAY DESIGN AND REVISIONS
 PERMANENT PLANNING
 METRICS
 CONVENTARY
 1" = 40'

Permit Drawing Ref. 4110
 Sheet 23 of 44

410



Matchline	Station	LT	ST	RT
MATCHLINE SEE SHEET 28A	12+77.85	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	13+22.85	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	13+65.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	14+10.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	14+55.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	15+00.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	15+45.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	15+90.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	16+35.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	16+80.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	17+25.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	17+70.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	18+15.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	18+60.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	19+05.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	19+50.75	58.00	280.000	58.00
MATCHLINE SEE SHEET 28A	20+00.00	58.00	280.000	58.00

DENOTES FILL IN SURFACE WATER

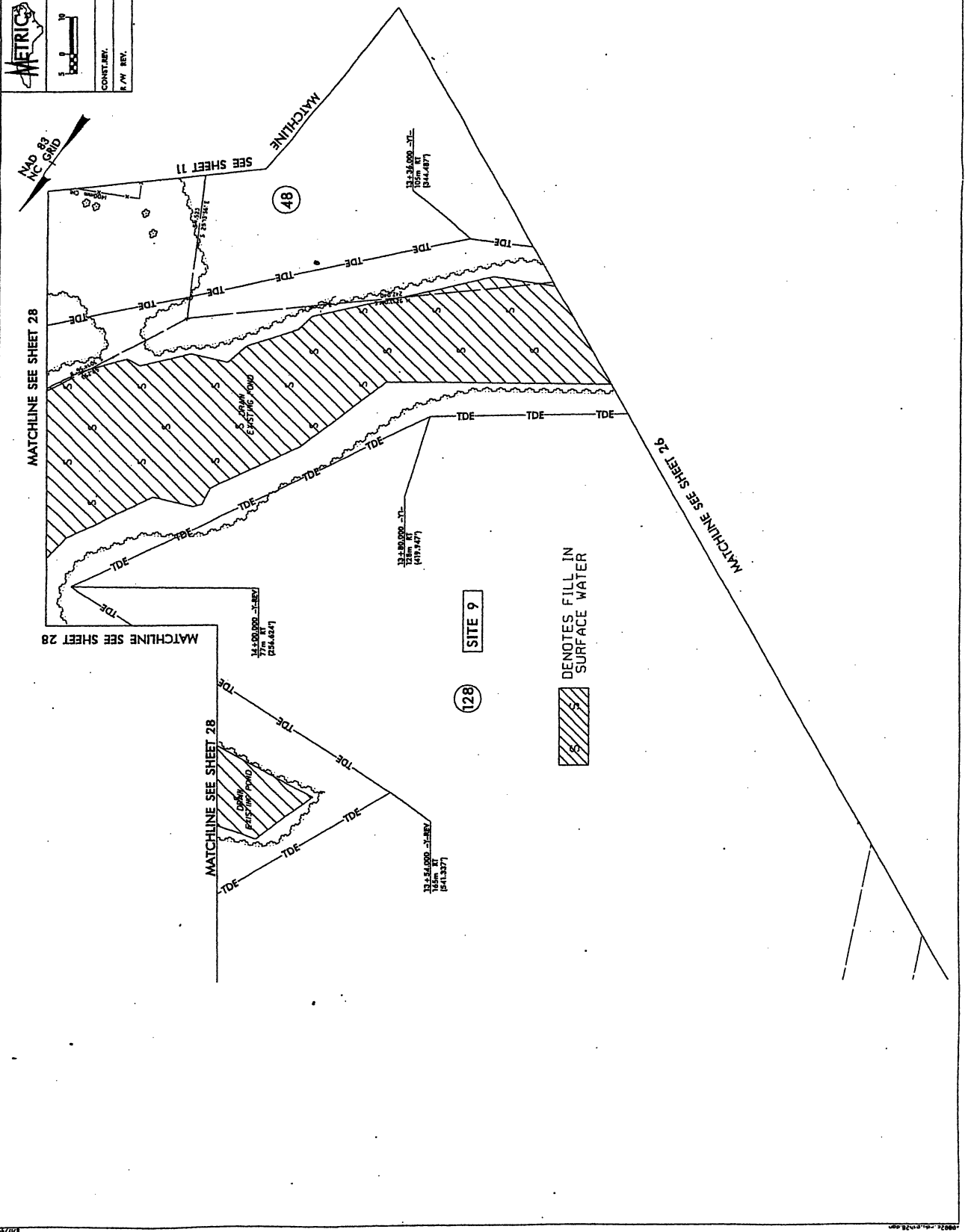
MATCHLINE SEE SHEET 28A

FOR DITCH DETAILS SEE SHEET 2-T
 FOR "Y" REV PROFILE SEE SHEET 54 & 55
 SEE C-1 THRU C- FOR CONVENT PLANS

PROJECT REFERENCE NO. X-0222C	SHEET NO. 28A
ROADWAY & PORT ENGINEER	HYDRAULICS ENGINEER
COUNTY, E/W, BRK	

Rev. 4/12/16
 Permit Drawing
 Sheet 28A of 40

411



PROJECT REFERENCE NO. 7-00000
 SHEET NO. 25

DESIGNED BY: METRIC ENGINEERING
 DRAWN BY: [Signature]

DATE: 10/15/14

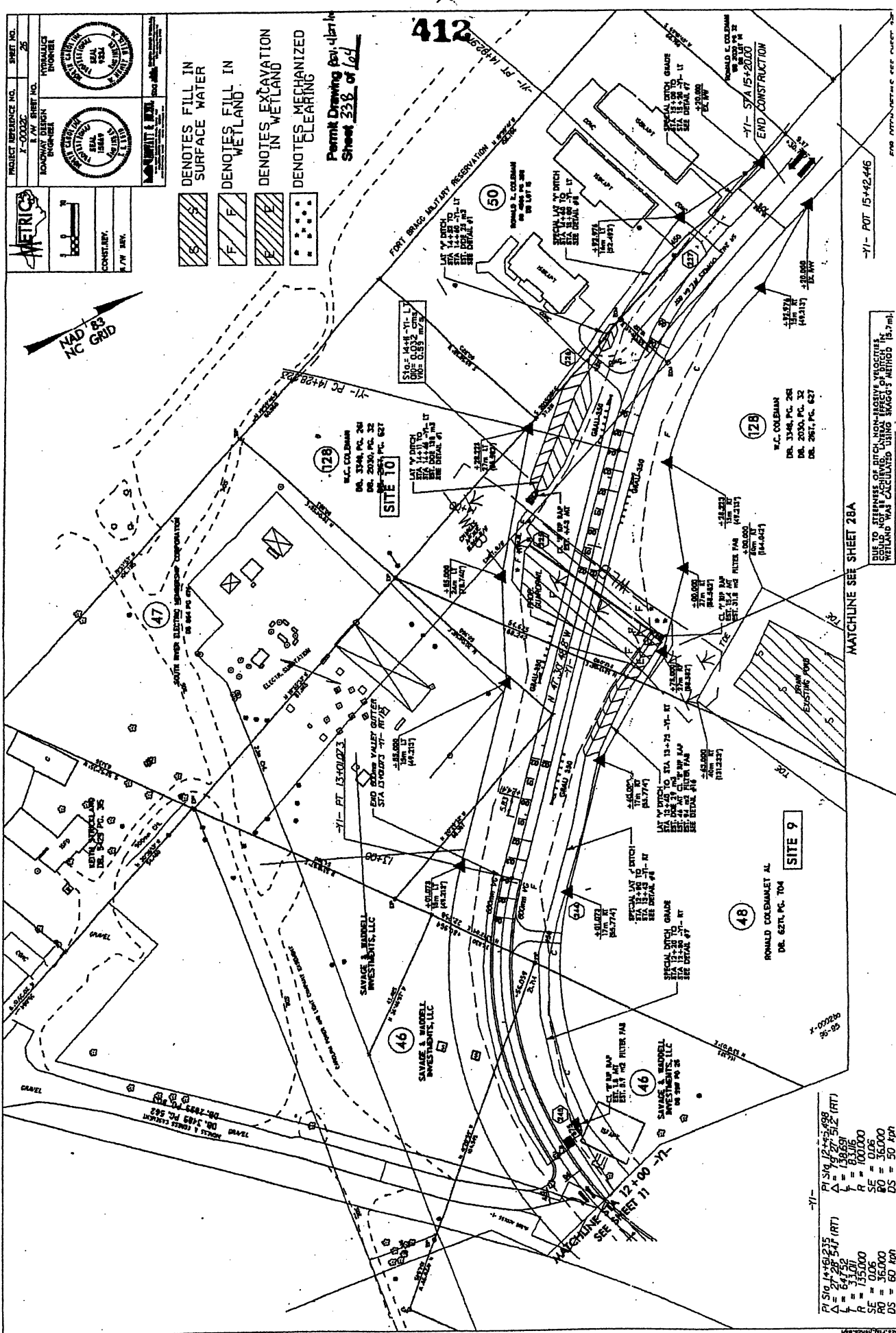
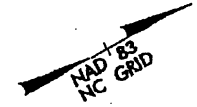
SCALE: AS SHOWN

PROJECT: [Project Name]

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

Permit Drawing for 412
 Sheet 23B of 104

412



-Y1- POT 15+42.446

412

MATCHLINE SEE SHEET 28A

PI 510.1+16.235	PI 510.1+16.235
Δ = 27.28	Δ = 130.00
L = 641.00	L = 130.00
R = 100.00	R = 100.00
SE = 0.06	SE = 0.06
RO = 36.000	RO = 36.000
DS = 60.00	DS = 60.00

-Y1-

10/15/14

PROJECT REFERENCE NO. SHEET NO. 27

CONTRACTOR: METRIC

DATE: 11/11/03

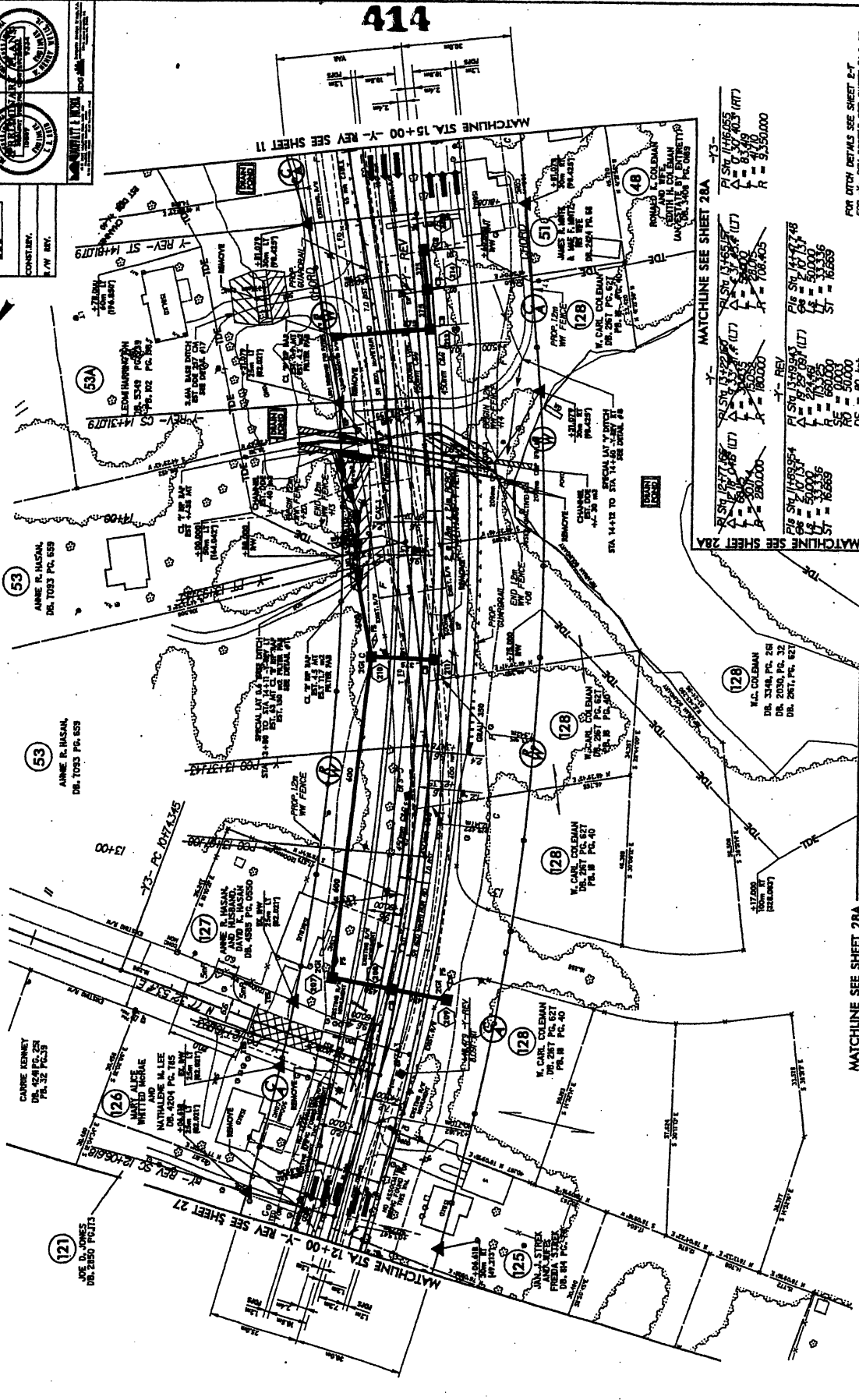
SCALE: 1" = 40'

PROJECT: ...

DESIGNED BY: ...

CHECKED BY: ...

APPROVED BY: ...



MATCHLINE SEE SHEET 28A

PI STA 14+855	PI STA 14+855
Δ = 6.00	Δ = 6.00
Δ = 6.00	Δ = 6.00
R = 3,350.00	R = 3,350.00
PI STA 14+855	PI STA 14+855
Δ = 6.00	Δ = 6.00
Δ = 6.00	Δ = 6.00
R = 1,088.405	R = 1,088.405
PI STA 14+855	PI STA 14+855
Δ = 6.00	Δ = 6.00
Δ = 6.00	Δ = 6.00
R = 1,088.405	R = 1,088.405

MATCHLINE SEE SHEET 28A

PI STA 14+855	PI STA 14+855
Δ = 6.00	Δ = 6.00
Δ = 6.00	Δ = 6.00
R = 1,088.405	R = 1,088.405
PI STA 14+855	PI STA 14+855
Δ = 6.00	Δ = 6.00
Δ = 6.00	Δ = 6.00
R = 1,088.405	R = 1,088.405

FOR DETAILED SEE SHEET 2-1
 FOR 1-1 REV PROFILE SEE SHEET 34 & 35
 SEE ATTACHED C- FOR CURB PLAN

MATCHLINE SEE SHEET 28A

PROJECT NUMBER NO.	SHEET NO.
2441-CO-020	415
DATE	SCALE
11/11/03	AS SHOWN

METRIC

CONST. DIV.

1/11/03

