

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.

| <u>PERMIT</u> | <u>AUTHORITY GRANTING THE PERMIT</u> |
|--|---|
| Dredge and Fill and/or Work in Navigable Waters (404) | U. S. Army Corps of Engineers |
| State Dredge and Fill and/or CAMA | Division of Coastal Management, DENR State of North Carolina |
| Water Quality (401) | Division of Environmental Management, DENR State of North Carolina |
| CCPCUA | Division of Water Resources, DENR State of North Carolina |
| Stormwater | Division of Environmental and Natural Resources, DENR, State of North Carolina |
| Buffer Certification | 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

**DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS**Washington Regulatory Field Office
P.O. Box 1000
Washington, North Carolina 27889-1000

October 31, 2008

Regulatory Division

Action ID. SAW 2008-02206

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

Dear Dr. Thorpe,

In accordance with your written request of June 17, 2008, and the ensuing administrative record, enclosed are two copies of a permit to relocate and widen approximately 6 miles of US Highway 17 New Bern Bypass (TIP R-2301A), starting from the intersection of existing US 17 and SR 1330 (Simmons Loop Road) in Jones County south of New Bern and ending with a new interchange with US 70 east of the interchange at Clarks in Craven County.

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 an initial proffered permit for the above described activity. If you object to this decision or the enclosed special conditions you may request that the District Commander reconsider his decision. 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:

Col. Jefferson Ryscavage, District Commander
US Army Corps of Engineers, Wilmington District
Post Office Box 1890
Wilmington, NC 28402-1890

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete and that it has been received by the District 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 31, 2008.

****It is not necessary to submit an RFA form to the District Office if you do not object to the decision in 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. If you have questions, please contact William Wescott at the Washington Regulatory Field Office, telephone 252-975-1616 ext. 31.

Sincerely,

A handwritten signature in black ink, appearing to read "David M. Lekson", with a long horizontal flourish extending to the right.

David M. Lekson, P.W.S.
Chief, Washington Regulatory Field Office

Enclosures

Blind Copies Furnished:

CESAW-R

___ Perform work in or affecting navigable waters of the United States, upon recommendation of the Chief of Engineers, pursuant to SECTION 10 of the Rivers and Harbor Act of March 3, 1899

X Discharge dredged or fill material into waters of the United States upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 404 of the Clean Water Act

___ Transport dredged material for the purpose of dumping it into ocean waters upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972

DEPARTMENT OF THE ARMY PERMIT

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

Permit No. SAW 2008-02206

Issuing Office CESAW-RG-W

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

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

Project Description: The proposed T.I.P. project R-2301 Section A involves constructing a divided multi-lane, full control of access freeway, interchanges at locations with major traffic movements, and grade separations at minor crossroads and railroads.

The project is approximately 6 miles long and proposes to construct on new location US Highway 17 west of New Bern. The T.I.P. R-2301 Section A project would permanently impact 18.50 acres of jurisdictional wetlands and 334 linear feet of stream. The project would temporarily impact 0.79 acres of jurisdictional wetlands and 0.01 acres of stream.

Project Location: This project involves the construction of a new US Highway 17 New Bern Bypass starting from the intersection of existing US 17 and SR 1330 (Simmons Loop Road) in Jones County south of New Bern and ending with a new interchange with US 70 east of the interchange at Clarks in Craven County.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2013**. 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:

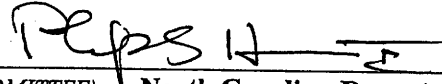
1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries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

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

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

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

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


 _____ 11/3/2008
 (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 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.

 (TRANSFEE) (DATE)

SPECIAL CONDITIONS (Action ID. SAW 2008-02206; NCDOT/TIP R-2301A)**COMPLIANCE WITH PLANS**

- a) This authorization is only for R-2301 Section A. Construction of Section B will only be allowed once all appropriate and practicable avoidance and minimization measures have been employed and final designs have been completed and plans have been approved by the District Commander.
- b) All work must be performed in strict compliance with the attached plans, which are a part of this permit. Any modification to the permit plans must be approved by the USACE prior to implementation.

ACTIVITIES NOT AUTHORIZED

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

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

CONSTRUCTION PLANS

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

POLLUTION SPILLS

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

NOTIFICATION

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

CLEAN FILL MATERIAL

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

CONTRACTOR COMPLIANCE

i) The Permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit, and any authorized modifications. A copy of this permit, and any authorized modifications, including all conditions, shall be available at the project site during construction and maintenance of this project.

SEDIMENTATION AND EROSION CONTROL MEASURES

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

Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to aquatic resources. These measures must be

inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

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

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

REPORTING OF VIOLATIONS

k) The Permittee will report any violation of these conditions or violations of Section 404 of the Clean Water Act to the Corps of Engineers, Washington Regulatory Field Office NCDOT Regulatory Project Manager, within 24 hours of the Permittee's discovery of the violation.

COMPLIANCE WITH SPECIAL CONDITIONS

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

PRECONSTRUCTION MEETING

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

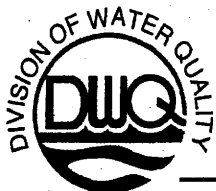
BORROW AND WASTE

n) To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent wetlands and streams, except as authorized by this permit, the Permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to

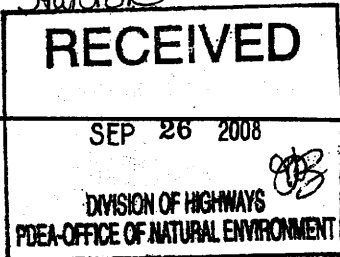
dispose of dredged, fill, or waste material. The Permittee shall provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as the Permittee has that information. The Permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any streams or wetlands. All jurisdictional wetland boundaries on borrow and waste sites shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The Permittee shall ensure that all such areas comply with Special Condition b) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the Special Condition c). All information will be available to the Corps of Engineers upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

EEP MITIGATION

o) Compensatory mitigation for the unavoidable impacts to 11.82 acres of riparian wetlands, 6.68 acres of non-riparian wetlands, and 334 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated August 29, 2008 from William D. Gilmore, EEP Transition Manager. Pursuant to the EEP Memorandum of Agreement (MOA) between the State of North Carolina and the US Army Corps of Engineers signed on July 22, 2003, the EEP will provide 23.64 acres of restoration equivalent riparian wetlands, 13.36 acres of restoration equivalent non-riparian wetlands, and 668 linear feet of restoration equivalent warm water stream channel in the Neuse River basin (Hydrologic Cataloging Units 03020202 and 03020204) in accordance with Section X of the MOA. For wetlands, a minimum of 1:1 (impact to mitigation) must be in the form of wetland restoration. The NCDOT shall, within 30 days of the issue date of this permit, certify that sufficient funds have been provided to EEP to complete the required mitigation, pursuant to Paragraph V. of the MOA.



Stanton



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., SecretaryColeen Sullins, Director
Division of Water QualityRECEIVED
Division of Highways

September 22, 2008

SEP 24 2008

Preconstruction
Project Development and
Environmental Analysis Branch

Dr. Greg Thorpe, PhD., Branch Manager
Project Development and Environmental Analysis 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 Act and Neuse River Basin Buffer Rules with ADDITIONAL CONDITIONS for the proposed New Bern Bypass (on new location) in Jones and Craven Counties, State Project No. 6179001T, TIP R-2301A and R-2301B.
DWQ Project No. 20080984
DWQ Certification No. WQC003757

Dear Dr. Thorpe:

Attached hereto is a copy of Certification No. 003757 issued to The North Carolina Department of Transportation dated September 22, 2008.

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

Sincerely,

Coleen Sullins
Director

Attachments

cc: William Wescott, US Army Corps of Engineers, Washington Field Office
Kathy Matthews, Environmental Protection Agency
Chris Militscher, Environmental Protection Agency
Travis Wilson, NC Wildlife Resources Commission (electronic)
Gary Jordan, US Fish and Wildlife Service (electronic)
Steve Sollod, Division of Coastal Management
Garcy Ward, DWQ Washington Regional Office
File Copy


401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and Neuse River Basin Buffer Rules 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 and (15A NCAC 2B .0233) This certification authorizes the NCDOT to impact 33.46 acres of jurisdictional wetlands, 352 linear feet of jurisdictional streams and 36,569 square feet of protected riparian buffers in Jones and Craven Counties. The project shall be constructed pursuant to the application dated received June 18, 2008. The authorized impacts are as described below:

Wetland Impacts in the Neuse River Basin

| R-2301A | | | | | | |
|--------------------|---------------------|---------------------|-----------------|--------------------------|--------------------|---------------------------|
| Site | Permanent Fill (ac) | Temporary Fill (ac) | Excavation (ac) | Mechanized Clearing (ac) | Hand Clearing (ac) | Total Wetland Impact (ac) |
| 1A | 0.071 | 0 | 0 | 0 | 0.007 | 0.078 |
| 1B | 0.128 | 0 | 0 | 0 | 0.514 | 0.642 |
| 1C | 0.009 | 0 | 0 | 0 | 0.013 | 0.022 |
| 2 | 0.037 | 0 | 0 | 0 | 0.008 | 0.045 |
| 3 | 0.221 | 0 | 0 | 0 | 0.031 | 0.252 |
| 4 | 0.404 | 0 | 0 | 0 | 0.053 | 0.457 |
| 5 | 1.062 | 0 | 0 | 0 | 0.118 | 1.180 |
| 6 | 0.422 | 0 | 0 | 0 | 0.057 | 0.479 |
| 7 | 0.043 | 0 | 0 | 0 | 0.003 | 0.046 |
| 8 | 0.092 | 0 | 0 | 0 | 0.049 | 0.141 |
| 9 | 0.470 | 0 | 0 | 0 | 0.069 | 0.539 |
| 10 | 1.165 | 0 | 0.058 | 0 | 0.119 | 1.342 |
| 10A | 0 | 0 | 0 | 0 | 0.001 | 0.001 |
| 11 | 9.172 | 0 | 0 | 0 | 1.102 | 10.274 |
| 12 | 0.715 | 0 | 0 | 0 | 0.097 | 0.812 |
| 16 | 0.116 | 0 | 0 | 0 | 0.033 | 0.149 |
| 18 | 1.939 | 0 | 0 | 0 | 0.302 | 2.241 |
| 19 | 0.087 | 0 | 0 | 0 | 0 | 0.087 |
| 20 | 1.043 | 0 | 0 | 0 | 0.141 | 1.184 |
| 21 | 0.614 | 0 | 0.562 | 0 | 0.135 | 1.311 |
| 22 | 0.025 | 0 | 0 | 0 | 0.015 | 0.040 |
| 23 | 0 | 0 | 0.039 | 0 | 0 | 0.039 |
| TOTAL: | 17.84 | 0.00 | 0.66 | 0.00 | 2.87 | 21.36 |
| R-2301B | | | | | | |
| N/A* | 12.10 | 0 | 0 | 0 | 0 | 12.10 |
| TOTAL: | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.10 |
| TOTAL FOR PROJECT: | | | | | | |
| TOTAL: | 29.94 | 0.00 | 0.66 | 0.00 | 2.87 | 33.46 |

*N/A – Site IDs for R-2301B have not been established yet

Transportation Permitting Unit
 1650 Mail Service Center, Raleigh, North Carolina 27699-1650
 2321 Crabtree Boulevard, Suite 250, Raleigh, North Carolina 27604
 Phone: 919-733-1786 / FAX 919-733-6893 / Internet: <http://h2o.enr.state.nc.us/ncwetlands>

One
 North Carolina
Naturally



Total Wetland Impact for Project: 33.46 acres
Stream Impacts in the Neuse River Basin

| R-2301A | | | | | | |
|-------------------|---|---|--|--|---------------------------------|---|
| 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) |
| 1A | 0 | 0 | 334 | 18 | 352 | 334 |
| 1B | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL: | 0 | 0 | 334 | 18 | 352 | 334 |
| R-2301B | | | | | | |
| N/A* | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL: | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL FOR PROJECT | | | | | | |
| TOTAL: | 0 | 0 | 334 | 18 | 352 | 334 |

*N/A – Site IDs for R-2301B have not been established yet.

Total Stream Impact for Project: 352 linear feet

Neuse River Basin Riparian Buffer Impacts

| R-2301A | | | | | | | | |
|-------------------|-----------------------|----------------------------------|------------------------|---|-----------------------|----------------------------------|------------------------|---|
| Site | Zone 1 Impact (sq ft) | minus Wetlands in Zone 1 (sq ft) | Zone 1 Buffers (sq ft) | Zone 1 Buffer Mitigation Required (3:1 ratio) | Zone 2 Impact (sq ft) | minus Wetlands in Zone 2 (sq ft) | Zone 2 Buffers (sq ft) | Zone 2 Buffer Mitigation Required (1.5:1 ratio) |
| 1 | 21,400 | 1,739 | 19,661 | 58,983 | 15,018 | 762 | 14,256 | 21,384 |
| 2 | 0 | 0 | 0 | 0 | 151 | 0 | 151 | 0 |
| TOTAL: | 21,400 | 1,739 | 19,661 | 58,983 | 15,169 | 762 | 14,256 | 21,384 |
| R-2301B | | | | | | | | |
| N/A* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL FOR PROJECT | | | | | | | | |
| TOTAL: | 21,400 | 1,739 | 19,661 | 58,983 | 15,169 | 762 | 14,256 | 21,384 |

*N/A – Site IDs for R-2301B have not been established yet.

Total Buffer Impact for Project: 36,569 square feet.

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

This approval is only valid for the purpose and design that you submitted in your application dated received June 18, 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:

Project Specific Conditions

1. All stormwater runoff shall be directed as sheetflow through stream buffers at non-erosive velocities, unless otherwise approved by this certification.
2. All riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and re-vegetated. Maintained buffers shall be permanently re-vegetated with non-woody species by the end of the growing season following completion of construction. For the purpose of this condition, maintained buffer areas are defined as areas within the transportation corridor that will be subject to regular DOT maintenance activities including mowing. The area with non-maintained buffers shall be permanently re-vegetated, with native woody species before the next growing season following completion of construction.
3. Pursuant to NCAC15A 2B .0233(6) for Neuse, sediment and erosion control devices shall not be placed in Zone 1 of any Neuse Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.
4. No changes to the horizontal or vertical placement of the stormwater outfall locations, the horizontal or vertical placement of the culverts, the horizontal or vertical placement of bridges, the horizontal or vertical placement of grassed swales, or the horizontal or vertical placement of open ditches is permitted without written approval from the NC Division of Water Quality. In addition, no changes to the flow spreader locations or designs, preformed scour hole locations or designs are permitted without written approval from the NC Division of Water Quality.
5. 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*.
6. The permittee will need to adhere to all appropriate in-water work moratoriums (including the use of pile driving or vibration techniques) prescribed by the NC Wildlife Resources Commission, the US Fish and Wildlife Service, and National Marine Fisheries Service. No in-water work is permitted between March 1 and August 31 of any year, without prior approval from the NC Division of Water Quality and the NC Wildlife Resources Commission. In addition, the permittee shall conform to the NCDOT policy entitled "Stream Crossing Guidelines for Anadromous Fish Passage (May 12, 1997) at all times. This moratorium applies to Bachelor Creek, Swift Creek, and the Neuse River.
- *7. Compensatory mitigation for impacts to 19,661 square feet of protected riparian buffers in Zone 1 and 14,256 square feet of protected riparian buffers in Zone 2 shall be required. We understand that you have



chosen to perform compensatory mitigation for impacts to protected buffers through use of the North Carolina Ecosystem Enhancement Program (EEP). Mitigation for unavoidable impacts to Neuse Riparian Buffers shall be provided in the Neuse River Basin and done in accordance with 15A NCAC 2B .0233. EEP has indicated in a letter dated August 29, 2008 that they will assume responsibility for satisfying the compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004.

8. Compensatory mitigation for impacts to 33.46 acres of wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated August 29, 2008 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004.
9. Compensatory mitigation for 334 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated August 29, 2008 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004.

General Conditions

10. 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 modification to this certification will be required.
11. 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.
12. 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.
13. 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.



14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
20. 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.
21. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.
22. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
23. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
24. 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.
25. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification.
26. 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.
27. The outside buffer, wetland or water boundary located within the construction corridor approved by this certification 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.



28. 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.
29. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this certification 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.
- * 30. The Permittee shall ensure that the final design drawings adhere to the certification and to the drawings submitted for approval.
31. 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.
32. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- * 33. When final design plans are completed for R-2301 Section B, a modification to the 401 Water Quality Certification and the Neuse River Riparian Buffer Certification shall be submitted with five copies and fees to the NC Division of Water Quality. Final designs shall reflect all appropriate avoidance, minimization, and mitigation for impacts to wetlands, streams, and other surface waters, and buffers. No construction activities that impact any wetlands, streams, surface waters, or buffers located in R-2301 Section B shall begin until after the permittee applies for, and receives a written modification of the 401 Water Quality Certification and the Neuse River Riparian Buffer Authorization from the NC Division of Water Quality.
- * 34. 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.

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 22nd day of September 2008

DIVISION OF WATER QUALITY

Coleen Sullins
Director

WQC No. 003757

Certification of Completion *

DWQ Project No.: _____ County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the **401 Water Quality Certification** and Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401/Wetlands Unit, North Carolina Division of Water Quality, 1621 Mail Service Center, Raleigh, NC, 27699-1621. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the **401 Water Quality Certification** and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the **401 Water Quality Certification** and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

If this project was designed by a Certified Professional

I, _____, as a duly registered Professional _____ (i.e., Engineer, Landscape Architect, Surveyor, etc.) in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the **401 Water Quality Certification** and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Registration No. _____ Date _____

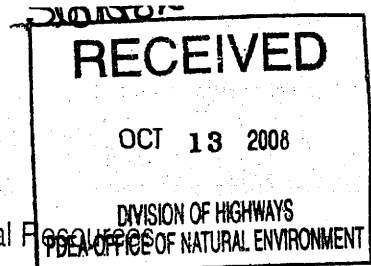


North Carolina Department of Environment and Natural Resources
Division of Coastal Management

Michael F. Easley, Governor

James H. Gregson, Director

William G. Ross Jr., Secretary



October 2, 2008

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

SUBJECT: CD08-051 - Consistency Concurrence for Proposed US 17 New Bern Bypass from SR 1330 near the Jones-Craven County Line to SR 1438 near Vanceboro, TIP No. R-2301, Craven County, NC (DCM #20080086)

Dear Dr. Thorpe:

The Division of Coastal Management (DCM) received the consistency certification by the North Carolina Department of Transportation (NCDOT) on June 24, 2008, to construct a four-lane controlled access highway around the western limits of the city of New Bern in Craven County (New Bern Bypass).

The consistency certification provides documentation to DCM that the applicant has determined, through a review of the coastal management program, that the project is consistent with its enforceable policies. North Carolina's coastal management program consists of, but is not limited to, the Coastal Area Management Act, the State's Dredge and Fill Law, and the land use plan of the County and/or local municipality in which the proposed project is located. It is the objective of DCM to manage the State's coastal resources to ensure that proposed activities are compatible with safeguarding and perpetuating the biological, social, economic and aesthetic values of the State's coastal resources.

To solicit public comments, DCM published a public notice in the "The Sun-Journal" on June 1, 2008 and circulated a description of the proposed project to State agencies that would have a regulatory interest in the proposed development. The NC Wildlife Resources Commission (WRC) did not object to the location or design of the project, however, some concerns were expressed in regard to fulfillment of existing project commitments associated with wetland mitigation including the proposed wetland

400 Commerce Avenue, Morehead City, North Carolina 28557-3421
 Phone: 252-808-2808 \ FAX: 252-247-3330 \ Internet: www.nccoastalmanagement.net

mitigation ratio of 1:1. These mitigation concerns, which were shared by DCM and other regulatory and resource agencies, were resolved during the consistency review process.

DCM has reviewed the initial consistency submission and subsequent supplementary supporting documentation pursuant to the enforceable policies of North Carolina's coastal management program, including the management objectives of Section 15A NCAC 07M of North Carolina's Administrative Code. DCM concurs, as conditioned below, that the proposed project is consistent with the enforceable policies of North Carolina's coastal management program. In order to be found consistent with the North Carolina's coastal management program, the Applicant shall comply with the following conditions of concurrence.

- The Applicant shall comply with the Section 401 Water Quality Certification No. WQC003757, issued to the NCDOT by the NC Division of Water Quality (DWQ) on September 22, 2008.
- The Applicant shall comply with Stormwater Permit No. SW7080610, which was issued by DWQ on August 13, 2008.
- Construction of the entire project, which encompasses both R-2301A and R-2301B is expected to impact a total of 30.60 acres of permanent wetland impacts, 3.05 acres of permanent surface water impacts, and 334 linear feet of permanent stream impacts. However, the R-2301B section of the project is currently unfunded and jurisdictional resource impacts of this section of the project are based on functional roadway construction limits. Therefore, no mitigation for R-2301B is proposed at this time. The Applicant shall submit a mitigation plan to address impacts by the construction of the R-2301B section when all avoidance and minimization measures have been taken and final design is complete, prior to the submission of the CAMA Major Permit application. The mitigation plan shall be approved by DCM, in consultation with the WRC, DWQ, and the US Army Corps of Engineers (USACE) before a CAMA Major Permit is issued to authorize the construction of R-2301B.
- The Applicant shall adhere to their compensatory mitigation commitment as outlined in the attached mitigation acceptance letter from the NC Ecosystem Enhancement Program (EEP) to the USACE, dated August 29, 2008, for unavoidable impacts to 11.82 acres of riparian wetlands, 6.68 acres of non-riparian wetlands, and 334 linear feet of stream impacts associated with the construction of R-2301A.
- Upon completion of the final design plans for R-2301 Section B, the Applicant shall submit a CAMA Major Permit Application to DCM. No construction may begin on R-2301B until a CAMA permit is issued in accordance with the rules of the NC Coastal Resources Commission.


Consistency Concurrence
New Bern Bypass, TIP No. R-2301

Page 3

Should the project be modified, a revised consistency certification could be necessary. This might take the form of either a supplemental consistency certification pursuant to 15 CFR 930.66, or a new consistency certification pursuant to 15 CFR 930.57. Likewise, if further project assessments reveal environmental impacts not previously considered by the proposed development, a supplemental consistency certification might be required.

If you have any questions, please contact Steve Sollod at (919) 733-2293 x230 or via e-mail at steve.sollod@ncmail.net. Thank you for your consideration of the North Carolina coastal management program.

Sincerely,



Doug Huggett
Manager, Major Permits and Consistency Unit

Attachment:

cc: Beth Harmon, EEP
Stephen Lane, DCM
Chris Rivenbark, NCDOT
Stephen Rynas, DCM
Steve Sollod, DCM
Tyler Stanton, NCDOT
David Wainwright, DWQ
William Wescott, USACE



RECEIVED

209 MC

AUG 28 2008

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins, Director
Division of Water Quality

DIVISION OF HIGHWAYS
HYDRAULICS UNIT

Stanton

August 13, 2008

Dr. Gregory J. Thorpe, Ph.D.
NC Department of Transportation
1548 Mail Service Center
Raleigh, NC 27699-1548

RECEIVED
AUG 21 2008
DIVISION OF HIGHWAYS
PDEA-OFFICE OF NATURAL ENVIRONMENT

Subject: Permit No. SW7080610
US Hwy 17 New Bern Bypass, TIP No. R-2301A
Stormwater Permit Linear Public Road
Craven County

Dear Dr. Thorpe:

The Washington Regional Office received a complete Stormwater Management Permit Application for the US Highway 17 bypass of New Bern on June 17, 2008. Staff review of the plans and specifications has determined that the project, as proposed, will comply with the Stormwater Regulations set forth in Title 15A NCAC 2H .1000. We are forwarding Permit No. SW7080610 dated August 13, 2008, for the construction of the subject project. This project includes treatment in grassed swales and does not include any curb and gutter.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

If you have any questions, or need additional information concerning this matter, please contact either me or Roger Thorpe at (252) 946-6481.

Sincerely,

Al Hodge
Regional Supervisor
Surface Water Protection Section

cc: Craven County Building Inspections
Division of Coastal Management
Washington Regional Office
Central Files

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

STATE STORMWATER MANAGEMENT PERMIT
LINEAR PUBLIC ROADWAY PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules and Regulations

PERMISSION IS HEREBY GRANTED TO

NC Department of Transportation
US Highway 17 New Bern Bypass
Craven County

FOR THE

construction of a public road / bridge in compliance with the provisions of 15A NCAC 2H .1000 (hereafter referred to as the "*stormwater rules*") and the approved stormwater management plans and specifications, and other supporting data as attached and on file with and approved by the Division of Water Quality and considered a part of this permit.

The Permit shall be effective from the date of issuance until rescinded and shall be subject to the following specific conditions and limitations:

I. DESIGN STANDARDS

1. The runoff from the impervious surfaces has been directed away from surface waters as much as possible.
2. The amount of built-upon area has been minimized as much as possible.
3. Best Management Practices are employed which minimize water quality impacts.
4. Approved plans and specifications for projects covered by this permit are incorporated by reference and are enforceable parts of the permit.
5. Vegetated roadside ditches are 3:1 slopes or flatter.

II. SCHEDULE OF COMPLIANCE

1. The permittee shall at all times provide adequate erosion control measures in conformance with the approved Erosion Control Plan.
2. The Director may notify the permittee when the permitted site does not meet one or more of the minimum requirements of the permit. Within the time frame specified in the notice, the permittee shall submit a written time schedule to the Director for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the Director that the changes have been made.
3. The permittee shall submit all information requested by the Director or his representative within the time frame specified in the written information request.
4. The permittee shall submit to the Director and shall have received approval for revised plans, specifications, and calculations prior to construction for the following items:
 - a. Major revisions to the approved plans, such as road realignment, deletion of any proposed BMP, changes to the drainage area or scope of the project, etc.
 - b. Project name change.
 - c. Redesign of, addition to, or deletion of the approved amount of built-upon area, regardless of size.
 - d. Alteration of the proposed drainage.
5. The Director may determine that other revisions to the project should require a modification to the permit.

III. GENERAL CONDITIONS

1. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Water Quality, in accordance with North Carolina General Statutes 143-215.6A to 143-215.6C.
2. The permit issued shall continue in force and effect until revoked or terminated.
3. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and reissuance, or termination does not stay any permit condition.
4. The issuance of this permit does not prohibit the Director from reopening and modifying the permit, revoking and reissuing the permit, or terminating the permit as allowed by the laws, rules, and regulations contained in Title 15A of the North Carolina Administrative Code, Subchapter 2H.1000; and North Carolina General Statute 143-215.1 et. al.
5. The permit is not transferable to any person except after notice to and approval by the Director. The Director may require modification or revocation and reissuance of the permit to change the name and incorporate such other requirements as may be necessary. A formal permit request must be submitted to the Division of Water Quality accompanied by the appropriate fee, documentation from both parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits, and may or may not be approved. The permittee is responsible for compliance with the terms and conditions of this permit until such time as the Director approves the transfer.

6. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state and federal) which have jurisdiction.
7. The permittee shall notify the Division of any name, ownership or mailing address changes within 30 days.

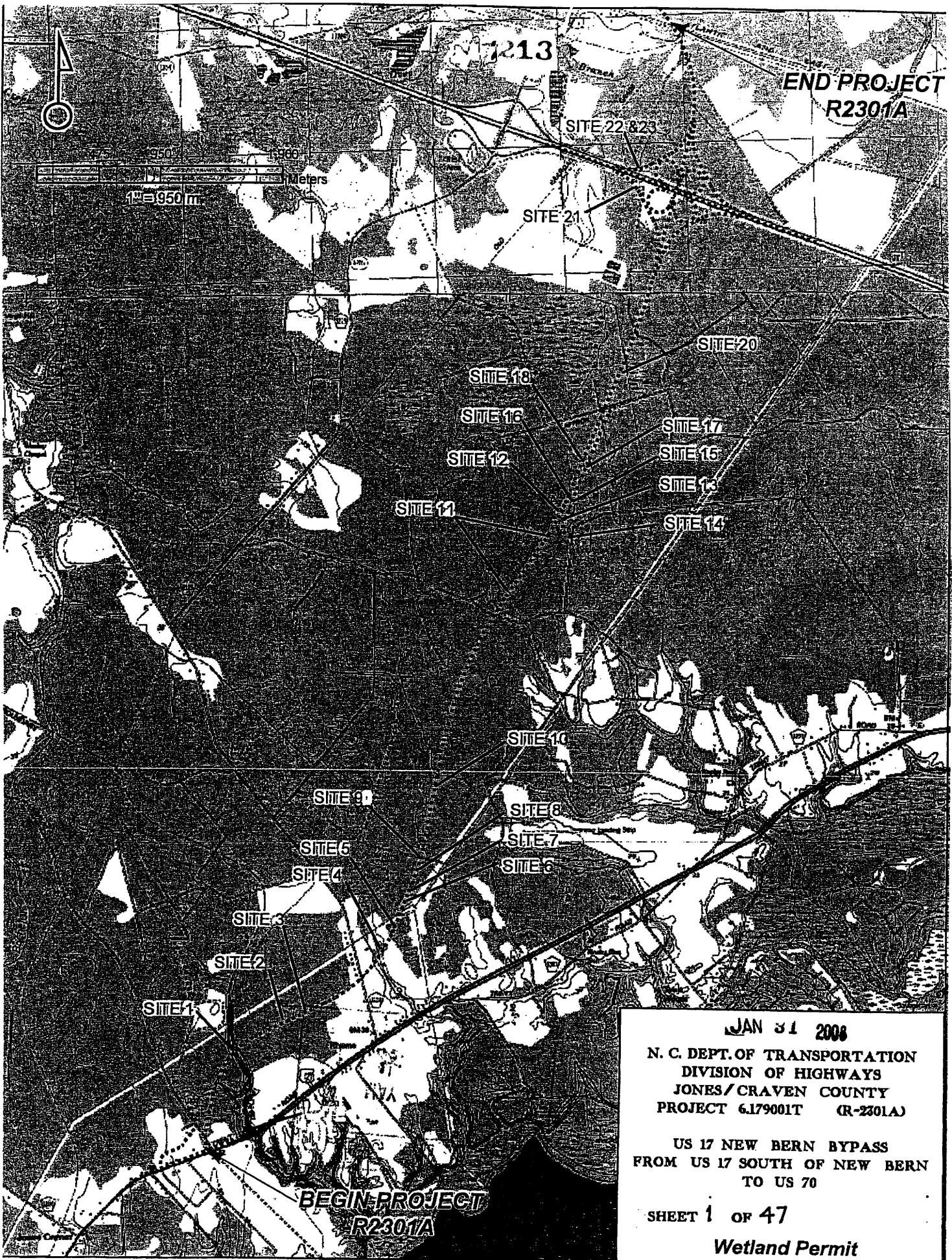
Permit issued this, the 13 th day of August 2008

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

A handwritten signature in black ink, appearing to read 'C. Sullins', is written over a solid horizontal line.

for Coleen H. Sullins, Director
Division of Water Quality
By Authority of the Environmental Management Commission

SW7080610



END-PROJECT
R2301A

17213

SITE 22 & 23

SITE 21

SITE 20

SITE 18

SITE 16

SITE 17

SITE 12

SITE 15

SITE 13

SITE 11

SITE 14

SITE 10

SITE 9

SITE 8

SITE 6

SITE 7

SITE 4

SITE 5

SITE 3

SITE 2

SITE 1

BEGIN-PROJECT
R2301A

JAN 31 2008

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
JONES / CRAVEN COUNTY
PROJECT 6.179001T (R-2301A)

US 17 NEW BERN BYPASS
FROM US 17 SOUTH OF NEW BERN
TO US 70

SHEET 1 OF 47

Wetland Permit

Property Owners

Parcel Number**Names****Addresses**

| | | |
|---|---|---|
| 1 | Sustainable Forests | PO Box 309 Roanoke Rapids, NC 5870 |
| 2 | Palmer Heirs, John Henry Peel, Nelson M. | 1487 Wise Five Forks Road Macon, C 27551 |

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

XXX COUNTY
WBS - XXXX (B-XXXX)

SHEET 2 of 47

4/11/2008

| WETLAND PERMIT IMPACT SUMMARY | | | | | | | | | | | | |
|-------------------------------|-------------------|-----------------------|------------------------------------|--------------------------------|--------------------------------|---|-----------------------------------|------------------------------|--------------------------|---|----------------------------|--|
| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | SURFACE WATER IMPACTS | | | | Natural Stream Design (ft) | |
| | | | Permanent Fill In Wetlands (acres) | Temp. Fill In Wetlands (acres) | Excavation in Wetlands (acres) | Mechanized Clearing in Wetlands (acres) | Hand Clearing in Wetlands (acres) | Permanent SW Impacts (acres) | Temp. SW Impacts (acres) | Existing Channel Impacts Permanent (ft) | | |
| 1A | L 13+66 to 14+40 | 1650mm (64") RCP | 0.071 | | | | | 0.007 | 0.047 | 0.003 | 333.99 | |
| 1B | L 17+82 to 18+60 | Bridge | 0.128 | | | | | 0.514 | | | | |
| 1C | Y1 20+98 to 21+30 | Fill | 0.009 | | | | | 0.013 | | | | |
| 2 | L 22+64 to 22+84 | | 0.037 | | | | | 0.008 | | | | |
| 3 | L 24+52 to 24+98 | | 0.221 | | | | | 0.031 | | | | |
| 4 | L 32+36 to 33+12 | | 0.404 | | | | | 0.053 | | | | |
| 5 | L 34+27 to 35+08 | | 1.062 | | | | | 0.118 | | | | |
| 6 | L 36+81 to 37+60 | | 0.422 | | | | | 0.057 | | | | |
| 7 | L 37+84 to 38+07 | | 0.043 | | | | | 0.003 | | | | |
| 8 | L 39+31 to 40+13 | | 0.092 | | | | | 0.049 | | | | |
| 9 | L 39+30 to 41+29 | | 0.470 | | | | | 0.069 | | | | |
| 10 | L 45+66 to 47+32 | | 1.165 | | 0.058 | | | 0.119 | | | | |
| 11 | L 61+78 to 69+22 | | 9.172 | | | | | 1.102 | | | | |
| 12 | L 69+69 to 70+52 | | 0.715 | | | | | 0.097 | | | | |
| 16 | L 71+13 to 71+60 | | 0.116 | | | | | 0.033 | | | | |
| 18 | L 72+64 to 75+50 | | 1.939 | | | | | 0.302 | | | | |
| 19 | L 80+66 to 80+89 | | 0.087 | | | | | | | | | |
| 20 | L 81+45 to 82+55 | | 1.043 | | | | | 0.141 | | | | |
| 21 | RPA 5+58 to 7+28 | | 0.614 | | 0.562 | | | 0.135 | | | | |
| 22 | RPA 6+01 to 6+21 | | 0.025 | | | | | 0.015 | | | | |
| 23 | RPA 6+59 to 6+69 | | | | 0.039 | | | | | | | |
| 10A | L 55+70 | | | | | | | 0.001 | | | | |
| TOTALS: | | | 17.83 | | 0.66 | 0.00 | 2.33 | 0.05 | 0.00 | 334.0 | 0.0 | |

0.79 acre of temporary fill in wetland in the hand clearing areas for erosion control measures

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CRAVEN COUNTY
 WBS - 34414.1.1 (R-2301A)
 SHEET 6/13/2008

Permit Drawing
 Sheet 3 of 47

| WETLAND PERMIT IMPACT SUMMARY | | WETLAND IMPACTS | | | | | | | | | | SURFACE WATER IMPACTS | | | |
|-------------------------------|-------------------|------------------|-------------------|-----------------------|------------------------------------|--------------------------------|-------------------------------|--|----------------------------------|-----------------------------|-------------------------|--|---------------------------|--|--|
| | | Site No. | Station (From/To) | Structure Size / Type | Permanent Fill In Wetlands (sq. m) | Temp. Fill In Wetlands (sq. m) | Excavation In Wetlands (sq m) | Mechanized Clearing in Wetlands (sq m) | Hard Clearing In Wetlands (sq m) | Permanent SW impacts (sq m) | Temp. SW impacts (sq m) | Existing Channel Impacts Permanent (m) | Natural Stream Design (m) | | |
| 1A | L 13+66 to 14+40 | 1650mm (64") RCP | 286.30 | | | | | 27.80 | 192.20 | 10.90 | 101.80 | | | | |
| 1B | L 17+82 to 18+60 | Bridge | 517.80 | | | | | 2078.70 | | | | | | | |
| 1C | Y1 20+98 to 21+30 | Fill | 35.60 | | | | | 53.40 | | | | | | | |
| 2 | L 22+64 to 22+84 | | 150.81 | | | | | 31.60 | | | | | | | |
| 3 | L 24+52 to 24+98 | | 893.00 | | | | | 125.58 | | | | | | | |
| 4 | L 32+36 to 33+12 | | 1636.00 | | | | | 216.40 | | | | | | | |
| 5 | L 34+27 to 35+08 | | 4296.60 | | | | | 478.40 | | | | | | | |
| 6 | L 36+81 to 37+60 | | 1709.50 | | | | | 230.20 | | | | | | | |
| 7 | L 37+84 to 38+07 | | 173.16 | | | | | 12.81 | | | | | | | |
| 8 | L 39+31 to 40+13 | | 373.50 | | | | | 189.10 | | | | | | | |
| 9 | L 39+30 to 41+29 | | 1902.90 | | | | | 278.30 | | | | | | | |
| 10 | L 45+66 to 47+32 | | 4713.70 | | 226.00 | | | 480.00 | | | | | | | |
| 11 | L 61+78 to 69+22 | | 37116.00 | | | | | 4480.50 | | | | | | | |
| 12 | L 69+69 to 70+52 | | 2892.30 | | | | | 393.20 | | | | | | | |
| 16 | L 71+13 to 71+60 | | 471.30 | | | | | 134.70 | | | | | | | |
| 18 | L 72+64 to 75+50 | | 7845.80 | | | | | 1221.40 | | | | | | | |
| 19 | L 80+66 to 80+89 | | 352.40 | | | | | | | | | | | | |
| 20 | L 81+45 to 82+55 | | 4222.00 | | | | | | | | | | | | |
| 21 | RPA 5+58 to 7+28 | | 2483.80 | | 2184.10 | | | 569.00 | | | | | | | |
| 22 | RPA 6+01 to 6+21 | | 101.60 | | | | | 547.60 | | | | | | | |
| 23 | RPA 6+59 to 6+69 | | | | 153.00 | | | 62.00 | | | | | | | |
| 10A | L 55+70 | | | | | | | 3.63 | | | | | | | |
| TOTALS: | | | 72174.07 | | 2563.10 | 0.00 | | 11605.40 | 192.20 | 10.90 | 101.8 | | | | |

0.32 HA of temporary fill in wetland in the hand clearing areas for erosion control measures

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CRAVEN COUNTY
 WBS - 34414.1.1 (R-2301A)
 SHEET 6/13/2008

Permit Drawing
 Sheet 4 of 47

| 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) | |
| 1A | L 13+66 to 14+40 | 1650mm RCP | 0.029 | | | | | 0.003 | 0.02 | 0.00 | 101.80 | |
| 1B | L 17+82 to 18+80 | Bridge | 0.052 | | | | | 0.208 | | | | |
| 1C | Y1 20+98 to 21+30 | Fill | 0.004 | | | | | 0.005 | | | | |
| 2 | L 22+84 to 22+84 | | 0.015 | | | | | 0.003 | | | | |
| 3 | L 24+52 to 24+98 | | 0.089 | | | | | 0.013 | | | | |
| 4 | L 32+36 to 33+12 | | 0.164 | | | | | 0.022 | | | | |
| 5 | L 34+27 to 35+08 | | 0.430 | | | | | 0.048 | | | | |
| 6 | L 36+81 to 37+60 | | 0.171 | | | | | 0.023 | | | | |
| 7 | L 37+84 to 38+07 | | 0.017 | | | | | 0.001 | | | | |
| 8 | L 39+31 to 40+13 | | 0.037 | | | | | 0.020 | | | | |
| 9 | L 39+30 to 41+29 | | 0.190 | | | | | 0.028 | | | | |
| 10 | L 45+66 to 47+32 | | 0.471 | | | 0.023 | | 0.048 | | | | |
| 11 | L 61+78 to 69+22 | | 3.712 | | | | | 0.446 | | | | |
| 12 | L 69+69 to 70+52 | | 0.289 | | | | | 0.039 | | | | |
| 16 | L 71+13 to 71+80 | | 0.047 | | | | | 0.013 | | | | |
| 18 | L 72+64 to 75+50 | | 0.785 | | | | | 0.122 | | | | |
| 19 | L 80+66 to 80+89 | | 0.035 | | | | | 0.000 | | | | |
| 20 | L 81+45 to 82+55 | | 0.422 | | | | | 0.057 | | | | |
| 21 | RPA 5+58 to 7+28 | | 0.248 | | | 0.218 | | 0.055 | | | | |
| 22 | RPA 6+01 to 6+21 | | 0.010 | | | | | 0.006 | | | | |
| 23 | RPA 6+59 to 6+69 | | | | | 0.015 | | | | | | |
| 10A | L 55+70 | | | | | | | 0.000 | | | | |
| TOTALS: | | | 7.217 | | | 0.256 | | 1.16 | 0.019 | 0.001 | 101.8 | |

0.32 HA of temporary fill in wetland in the hand clearing areas for erosion control measures

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CRAVEN COUNTY
 WBS - 34414.1.1 (R-2301A)
 SHEET
 Permit Drawing 6/13/2008
 Sheet 5 of 47

| | | | |
|---------------------------------|------------|---|---------|
| STATE | N.C. | PROJECT NUMBER | R-2301A |
| DISTRICT | I | DATE | 3/24/11 |
| DESIGNER | P.E. | DATE | 3/24/11 |
| PROJECT | P.W. UTIL. | DATE | 3/24/11 |
| | | ALL DIMENSIONS IN THESE PLANS ARE IN METERS OR MILLIMETERS UNLESS OTHERWISE NOTED | |
| Permit Drawing Sheet 6 of 47 | | | |

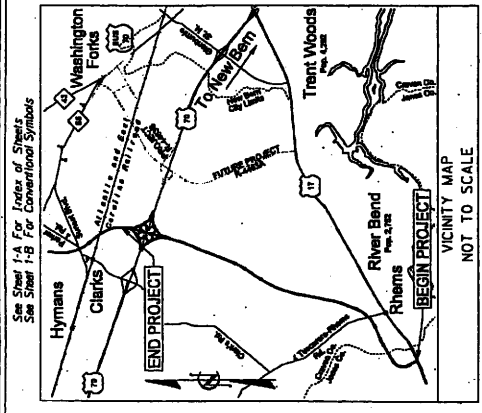
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

JONES & CRAVEN COUNTIES

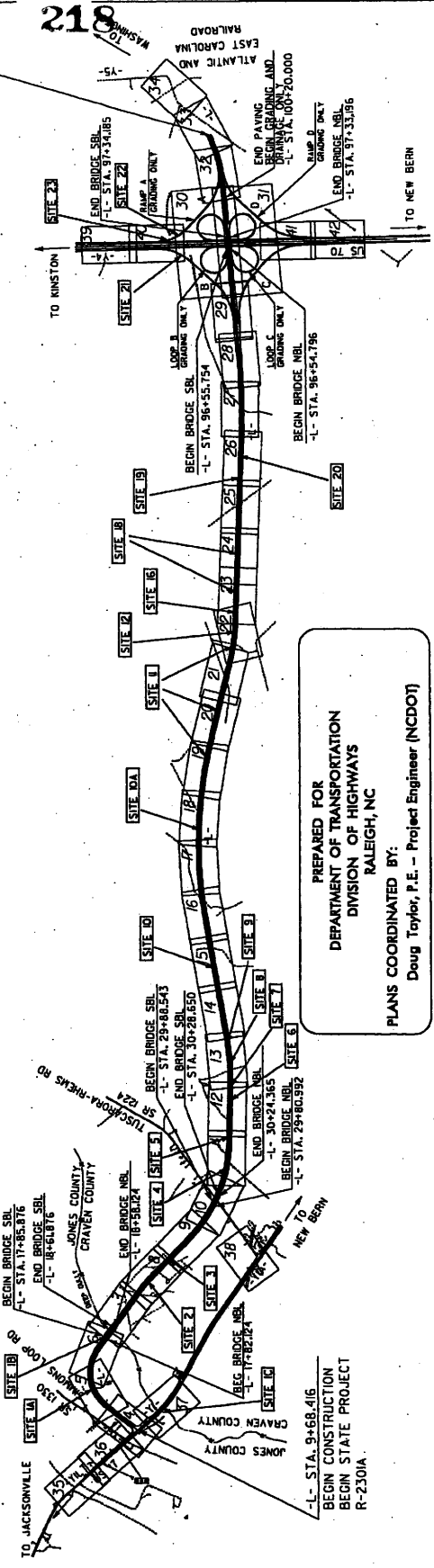
LOCATION: US 17 NEW BERN BYPASS
 FROM US 17 SOUTH OF NEW BERN TO US 70

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

WETLAND PERMIT



VICINITY MAP
 NOT TO SCALE



PREPARED FOR
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, NC

PLANS COORDINATED BY:
 Doug Taylor, P.E. - Project Engineer (NCDOT)

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

CONTRACT:

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

HYDRAULICS ENGINEER
 ROADWAY DESIGN ENGINEER

URS
 Prepared in the Office of:
 URS Corporation - North Carolina
 1000 Palmer Park Drive, Suite 400
 Raleigh, NC 27606
 TEL: 919.489.1100 FAX: 919.489.1110

RIGHT OF WAY DATE:
 JUNE 30, 2006

LETTING DATE:
 NOVEMBER 18, 2008

TIMOTHY H. KEENER, P.E.
 PROJECT MANAGER

JEFFREY A. KOONTZ, P.E.
 PROJECT DESIGN ENGINEER

PROJECT LENGTH
 LENGTH ROADWAY STATE PROJECT 4442.3 = 4310 KILOMETERS
 LENGTH STRUCTURES STATE PROJECT 3442.3 = 6491 KILOMETERS
 TOTAL LENGTH STATE PROJECT 7884.6 = 9801 KILOMETERS
 (GALL USED FOR LENGTH CALCULATION)

THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGES

DESIGN DATA

ADT 2008 = 23,300
 ADT 2028 = 40,300

PLANS
 5 0 10
 1000

PROFILE (HORIZONTAL)
 0.5 0 1
 1000

PROFILE (VERTICAL)
 5 0 10
 1000

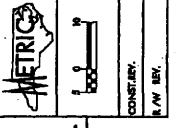
DESIGN DATA

DHV = 10 %
 D = 60 %
 T = 12 %
 (6% TILT + 6% DUAL)

V = 110 km/h
 NATIONAL CLASSIFICATION

TIP PROJECT: R-2301A

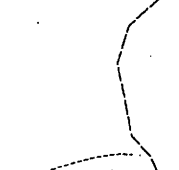
PROJECT REFERENCE NO. A-2307A SHEET NO. 2
 ROADWAY DESIGN ENGINEER
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 7 of 47



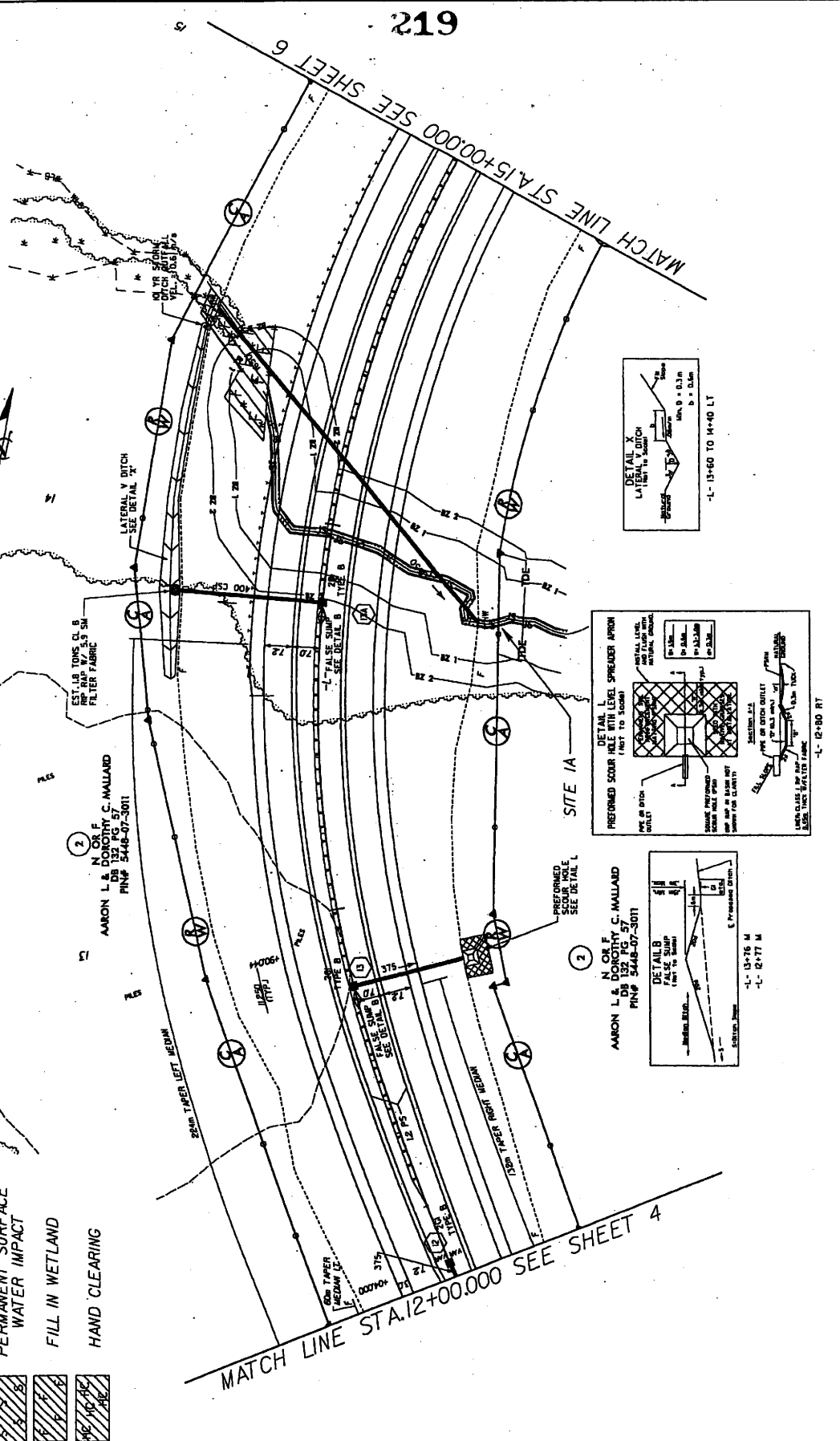
URRS
 URS CORPORATION - 2000 Corporate Center
 10000 North Central Expressway
 Dallas, Texas 75243-9090
 PHONE: 972.960.8600 FAX: 972.960.8601
 WWW: www.urscorp.com

NOTE FOR -L- PROFILE SEE SHEET 43

TEMPORARY SURFACE WATER IMPACT
 PERMANENT SURFACE WATER IMPACT
 FILL IN WETLAND
 HAND CLEARING

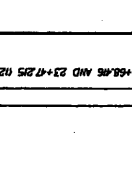
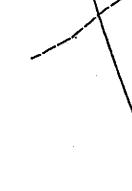


WETLAND PERMIT
 SITE 1A -L- 13+66 to 13+40



2
 N. O. F.
 AARON L. & DOROTHY C. MALLARD
 DB 132 PG 57
 PINP 3448-07-3011

2
 N. O. F.
 AARON L. & DOROTHY C. MALLARD
 DB 132 PG 57
 PINP 3448-07-3011

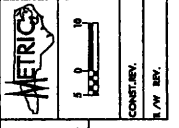


MATCH LINE STA. 15+00.00 SEE SHEET 6

MATCH LINE STA. 12+00.00 SEE SHEET 4

DATE: JANUARY 31, 2008 REVISED -L- BYPASS ALIGNMENT ON NEW LOCATION BETWEEN STA. 9+66.84 AND 23+47.25 (2+00 TO 15+00 THIS SHEET)

PROJECT REFERENCE NO. A-2-201A SHEET NO. 3
 ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER
 PRELIMINARY PLANS
 IN PART FOR THE CONSTRUCTION
Permit Drawing
Sheet 6 of 47

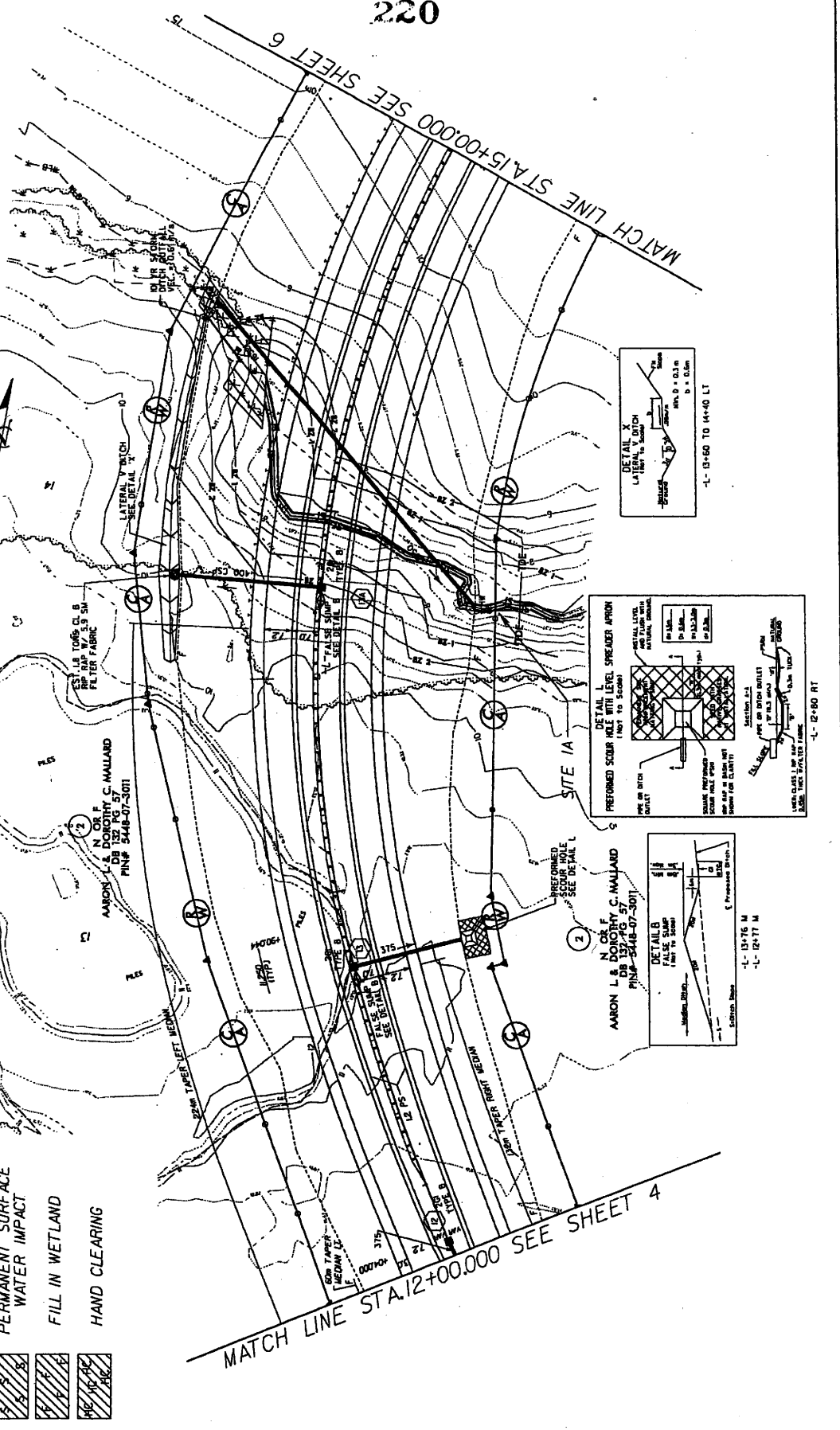
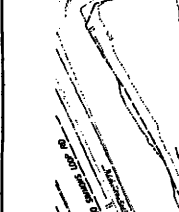


URS
 URS Corporation - a Black & Veatch Company
 1000 Pennsylvania Avenue, N.W.
 Washington, D.C. 20004-1201
 URS (USA) INC. - a subsidiary of URS Corporation
 1000 Pennsylvania Avenue, N.W.
 Washington, D.C. 20004-1201

NOTE: FOR "L" PROFILE SEE SHEET 43

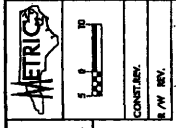
WETLAND PERMIT
 SITE 1A -L- 13+66 to 13+40

TEMPORARY SURFACE WATER IMPACT
 PERMANENT SURFACE WATER IMPACT
 FILL IN WETLAND
 HAND CLEARING



REVISIONS
 DATE: JANUARY 31, 2008 REVISD -L- BYPASS ALIGNMENT ON NEW LOCATION BETWEEN STA. 9+68.46 AND 23+47.215 (12+00 TO 15+00 THIS SHEET)

PROJECT REFERENCE NO. B-2324A
 ROADWAY DESIGN DIVISION
 SHEET NO. 6
 PRELIMINARY PLANS
 Permit Drawing
 Sheet ID of 47



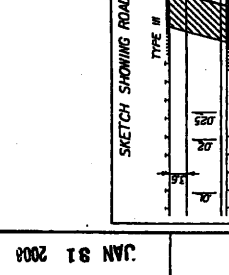
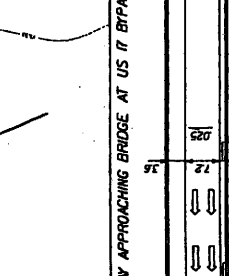
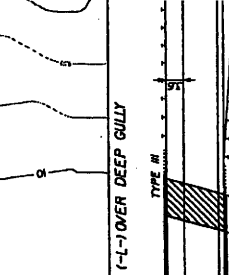
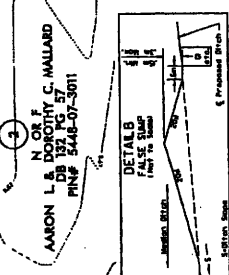
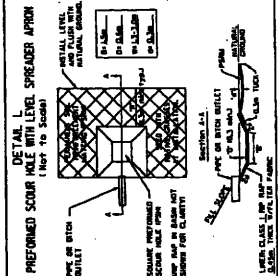
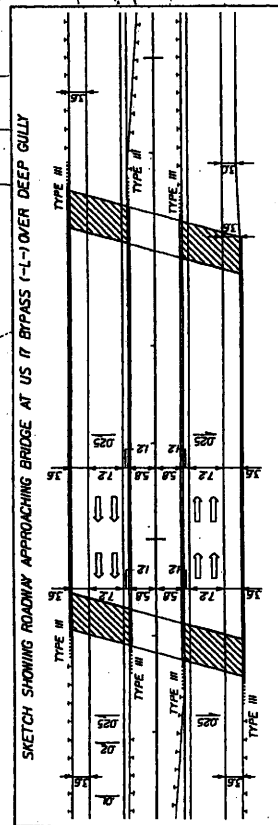
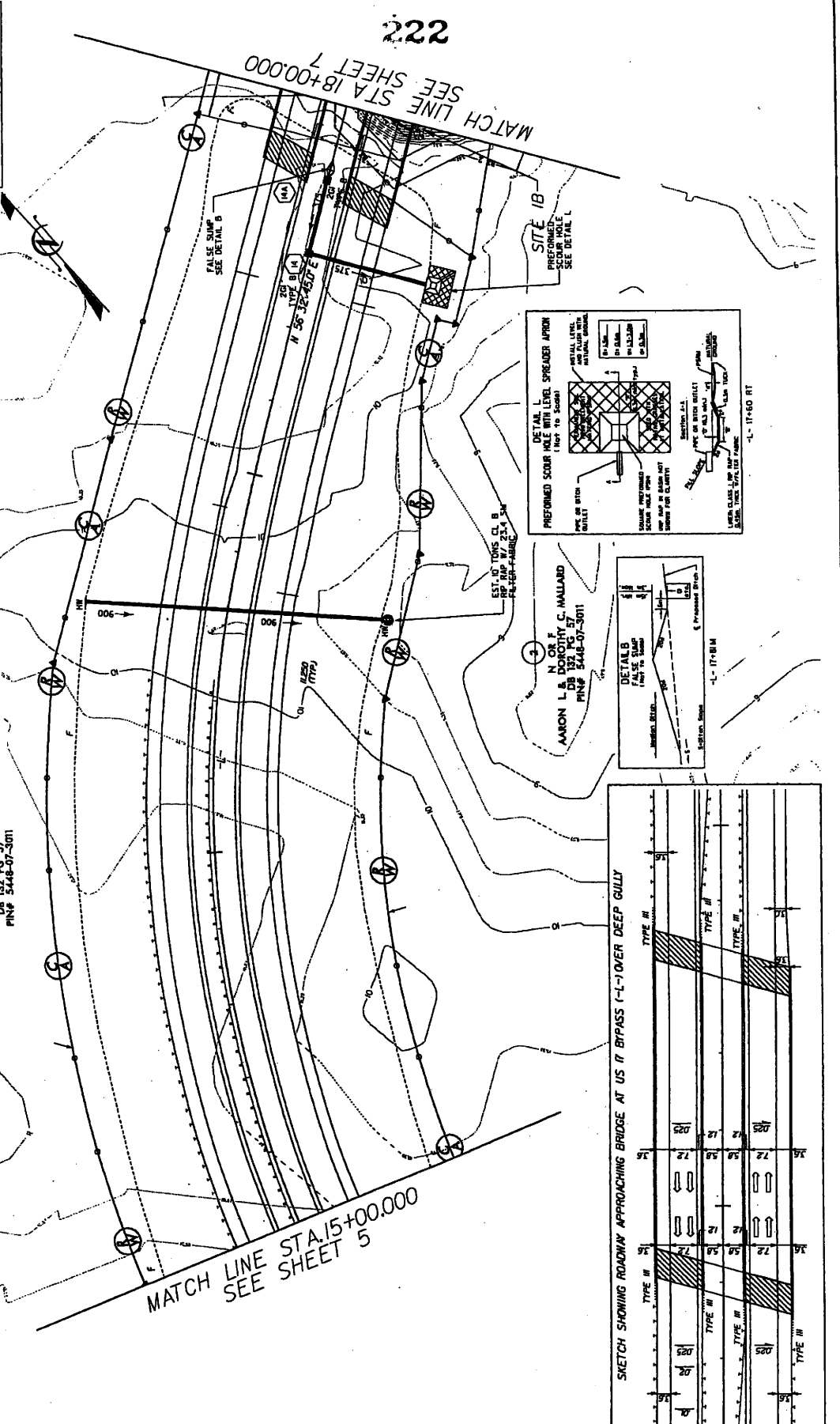
URS
 URS Corporation
 200 North Main Street
 Suite 1000
 Minneapolis, MN 55402-3500
 PHONE: 612.345.4321
 FAX: 612.345.4322

NOTE FOR "L" PROFILE SEE SHEET 45-44
 FILL IN WETLAND

LEGEND

 2
 N OR F
 AARON L. & DOROTHY C. MALLARD
 DB 132 PG 57
 PIN# 5448-07-3011

WETLAND PERMIT
 SITE 1B



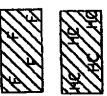
JAN 91 2008

PROJECT REFERENCE NO. FL-2201A
 SHEET NO. 7
 HYDRAULICS ENGINEER
 ROADWAY DESIGN
 PRELIMINARY PLANS
 IN PART FOR THE
Permit Drawing
 Sheet 11 of 47



WETLAND PERMIT
 SITE 1B

FILL IN WETLAND
 HAND CLEARING



(4) N. OR F. COMPANY
 PIN# B-200-010

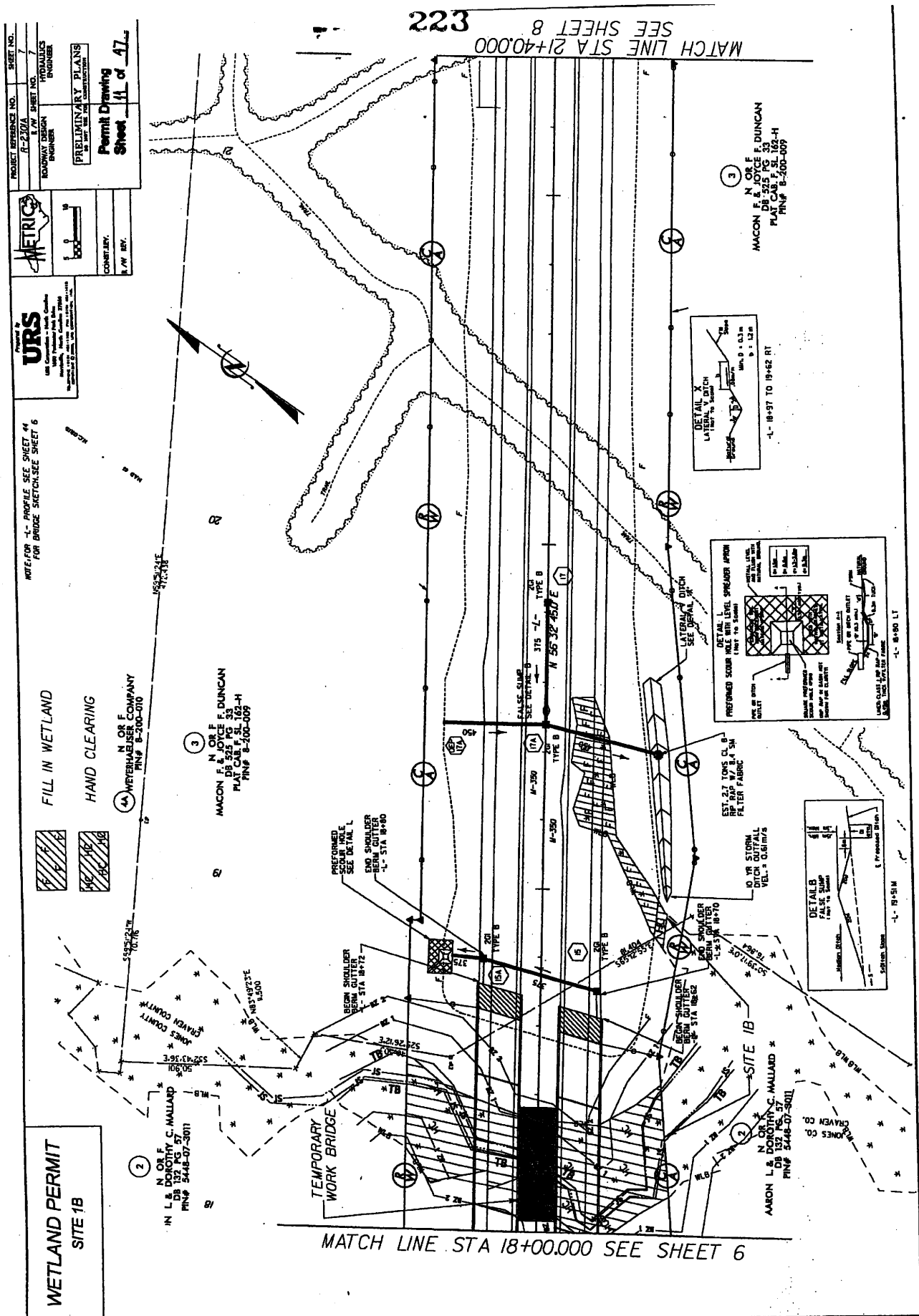
(2) N. OR F. L. & DOROTHY C. MALLARD
 DB 525 PG 33
 PLAT CAB. F. SL 162-H
 PIN# 5448-07-3001

(3) N. OR F. MACON F. & JUDGE F. DUNCAN
 DB 525 PG 33
 PLAT CAB. F. SL 162-H
 PIN# B-200-009

JAMES COUNTY
 CRAYEN COUNTY

MATCH LINE STA 18+00.000 SEE SHEET 6

MATCH LINE STA 21+40.000
 SEE SHEET 8
 223



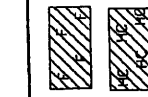
JAN 31 2008

PROJECT REFERENCE NO. **F-2201A** SHEET NO. **7**
 ROADWAY DESIGN **HYDRAULICS**
 SURVEYOR **PRELIMINARY PLANS**
 IN ACCORDANCE WITH THE **CONTRACT**
Permit Drawing
Sheet 12 of 47

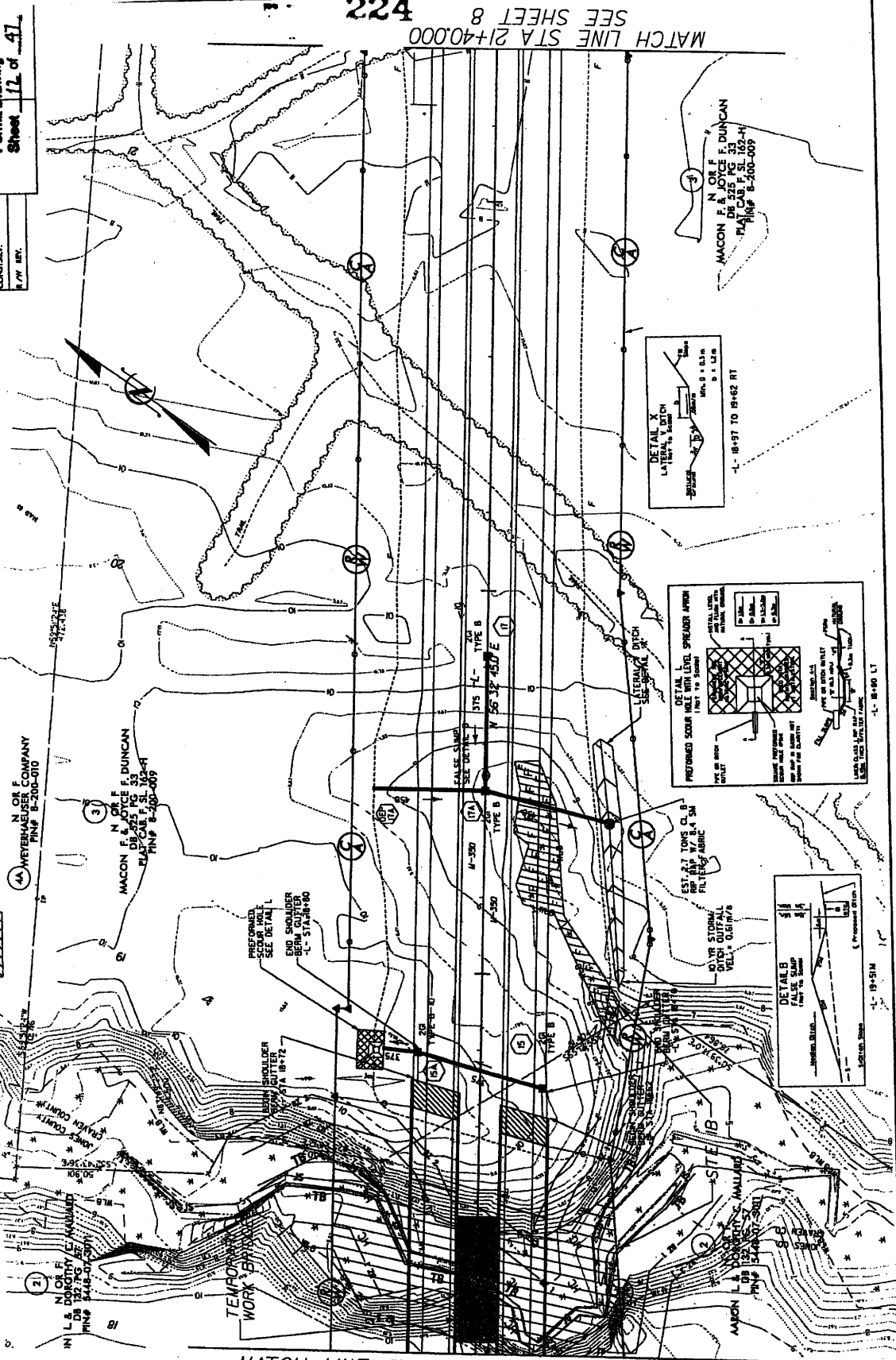
URS
 CONSULTING ENGINEERS
 188 Cambridge Street, Cambridge, MA 02142
 617.552.3000
 www.urscorp.com

NOTE: FOR 1-1 PROFILE SEE SHEET 44
 FOR BRIDGE SKETCHES SEE SHEET 6

FILL IN WETLAND
HAND CLEARING

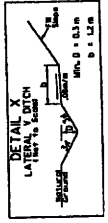


WETLAND PERMIT
SITE 1B

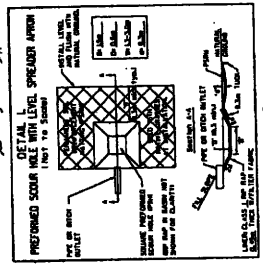


MATCH LINE STA 18+00.00 SEE SHEET 6

MATCH LINE STA 21+40.00 SEE SHEET 8



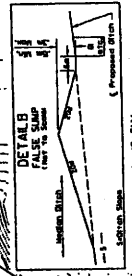
1-1 18+97 TO 18+62 RT



1-1 18+90 LT

EST. 2.7 TONS CL. B
 REP. 17.8' x 5.5' S.I.
 FILTER FABRIC

OLIVE STORAGE
 DITCH OUTFALL
 VEL. 0.61 FT/S



1-1 18+51M

N OR F
 MAISON F. & JOYCE F. DUNCAN
 DB 525 PG 33
 PLAN 8-1, 8-2, 8-3, 8-4
 PIN# 8-200-007

JAN 31 2008

REVISIONS

MATCH LINE STA 24+80.00 SEE SHEET 9

MATCH LINE STA 21+40.00 SEE SHEET 7

PROJECT REFERENCE NO. R-2307A
 SHEET NO. 8
 ROADWAY DESIGN ENGINEER
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 13 of 47

URSI
 URS CONSULTANTS INC.
 1000 Wisconsin Park Drive
 Schaumburg, IL 60196
 (815) 396-8000

METRICS
 CONSULTING ENGINEERS
 1000 Wisconsin Park Drive
 Schaumburg, IL 60196
 (815) 396-8000

NOTE: FOR "L" PROFILE SEE SHEET 44-45

LEGEND

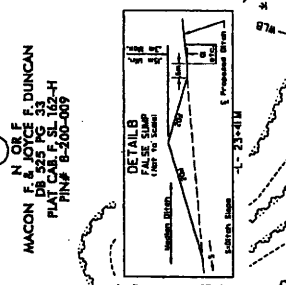
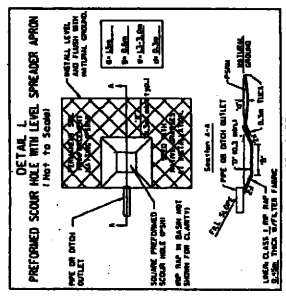
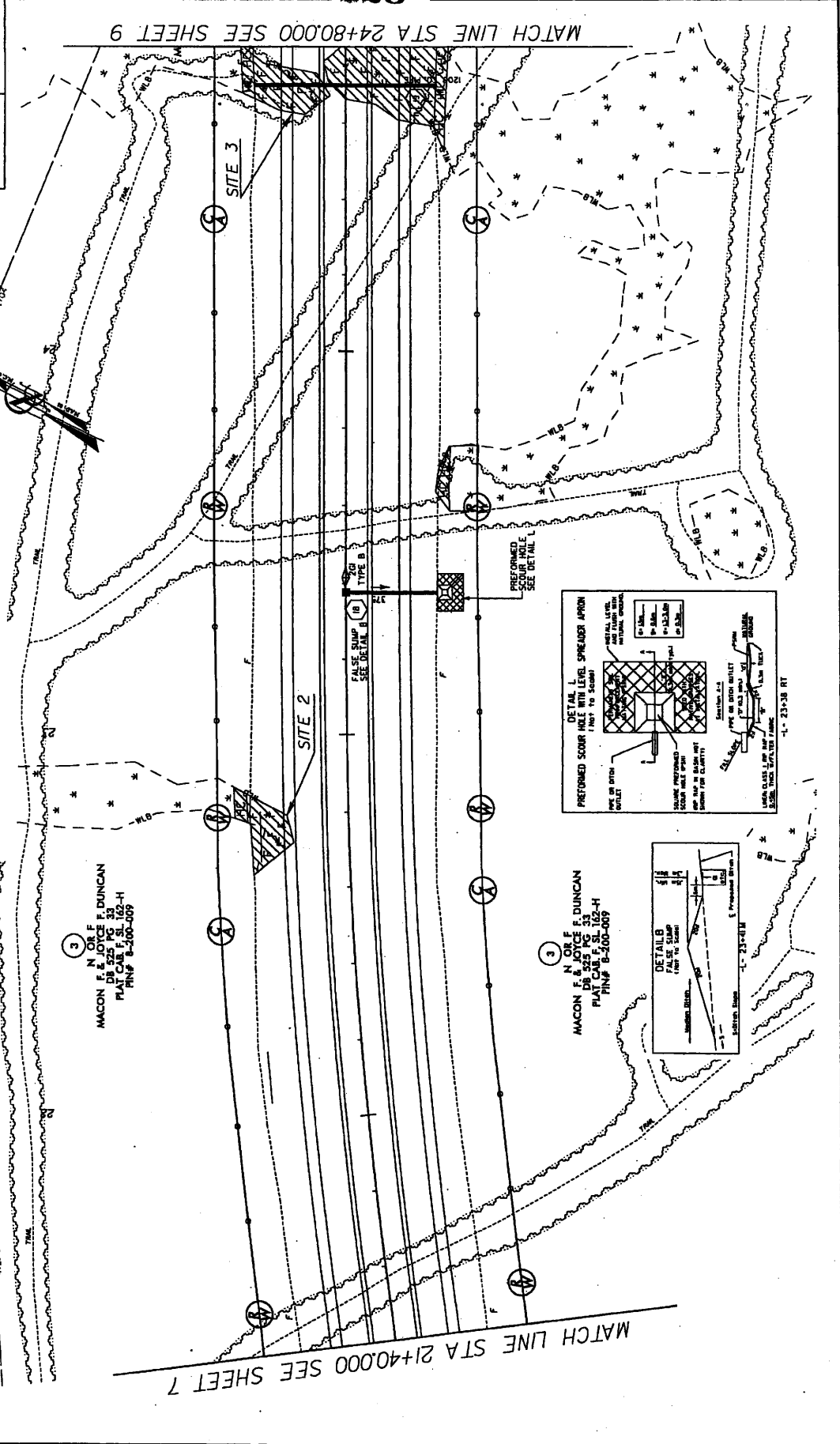
FILL IN WETLAND

HAND CLEARING

3
 N OR F
 MAISON F. & JOYCE F. DUNCAN
 DR. 525 PG. 33
 PLAT C&B F. SL. 162-H
 P.N.P. 8-200-009

WETLAND PERMIT
 SITE 2 -L- 22+65
 SITE 3 -L- 24+70

N OR F
 WEYERHAEUSER COMPANY
 P.N.P. 8-200-010



MATCH LINE STA 24+80.00 SEE SHEET 9

MATCH LINE STA 21+40.00 SEE SHEET 7

PROJECT REFERENCE NO. R-2307A
 SHEET NO. 8
 TOWNSHIP ENGINEER
 COUNTY ENGINEER
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 14 of 47

URS
 URS CONSULTANTS, INC.
 1000 Peachtree Street, N.E.
 Atlanta, Georgia 30309
 PHONE 404.521.8800
 FAX 404.521.8801
 WWW.URS-CORP.COM

METRICS
 METRICS ENGINEERS, INC.
 1000 Peachtree Street, N.E.
 Atlanta, Georgia 30309
 PHONE 404.521.8800
 FAX 404.521.8801
 WWW.METRICS-INC.COM

CONTRACT NO. 1000
 S/W REV. 1000

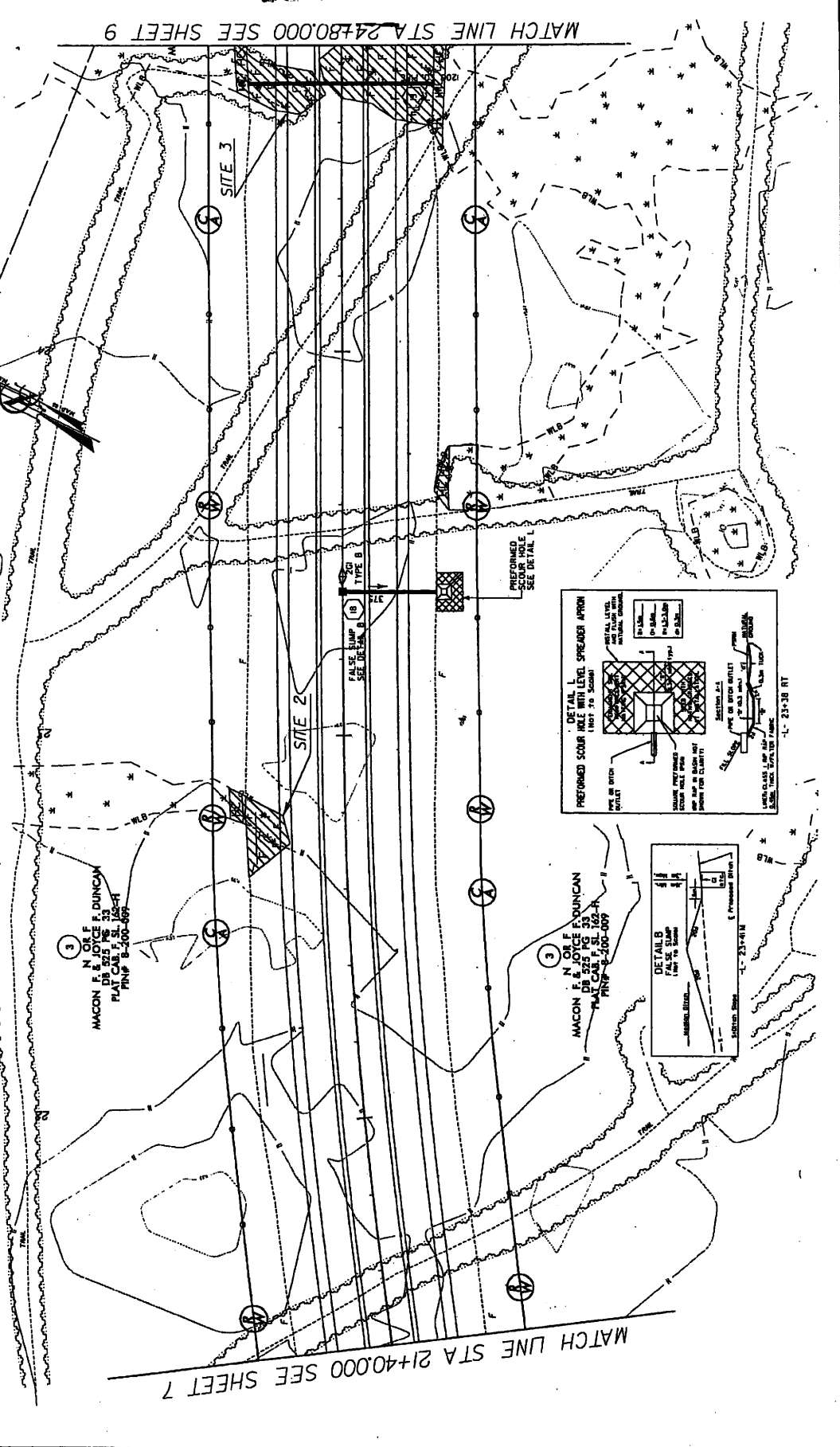
NOTE FOR "L" PROFILE SEE SHEET 44-45

LEGEND

FILL IN WETLAND

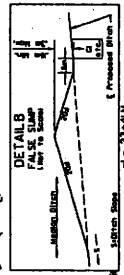
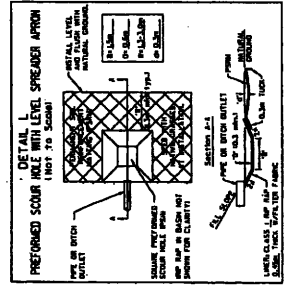
HAND CLEARING

WETLAND PERMIT
 SITE 2 -L- 22+65
 SITE 3 -L- 24+70
 (AA)
 N OR F
 WETTERHARLUSER COMPANY
 PIN# 8-200-010



MACON F. & JOYCE F. DUNCAN
 DR. 525 PG. 33
 PLAT. C&F, S.L. 128-ET
 PIN# 8-200-069

MACON F. & JOYCE F. DUNCAN
 DR. 525 PG. 33
 PLAT. C&F, S.L. 128-ET
 PIN# 8-200-069



JAN 31 2006

REVISIONS

PROJECT REFERENCE NO. SHEET NO.
 R-2307A 9
 T/W SHEET NO. 9
 PRELIMINARY PLANS
 PERMIT DRAWING
 Sheet 15 of 47

METRIC
 CONSTANT
 1" = 100'

URS
 CONSULTING ENGINEERS
 10000 W. BUCKLEBOURNE ROAD
 SUITE 1000
 BUCKLEBOURNE, MD 21714
 PHONE: 410-326-7000
 FAX: 410-326-7001
 WWW.URS.COM

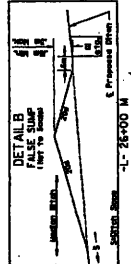
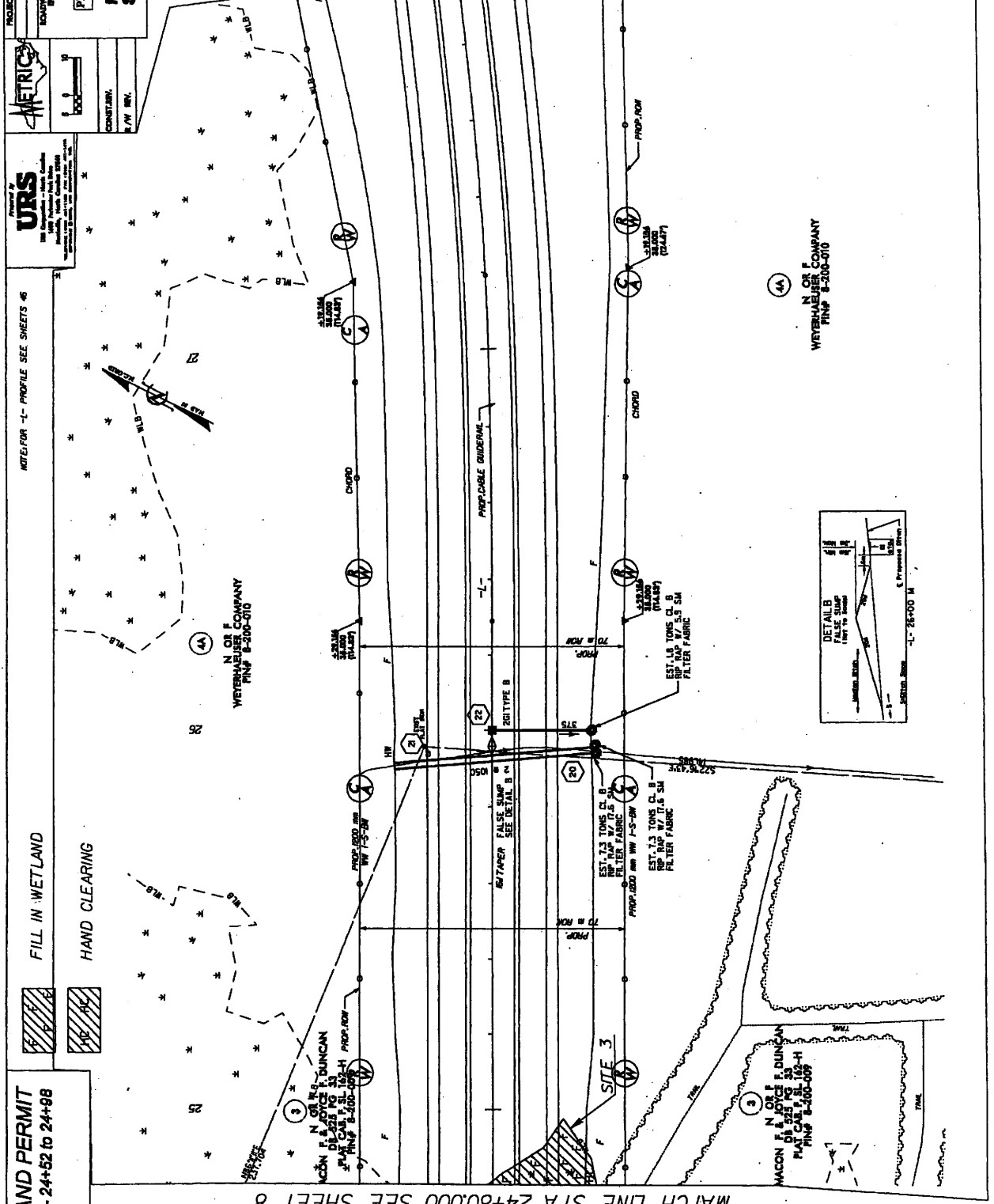
NOTE: FOR -L- PROFILE SEE SHEETS 46

FILL IN WETLAND
 HAND CLEARING

WETLAND PERMIT
 SITE 3 -L- 24+52 to 24+98

MATCH LINE STA 28+00.00 SEE SHEET 10

MATCH LINE STA 24+80.00 SEE SHEET 8



N OR F
 WETENHAUSER COMPANY
 PINP 8-300-010

PROJECT REFERENCE NO. R-232/A
SHEET NO. 9
ROADWAY DESIGN
METRIC
PRELIMINARY PLANS
Permit Drawing
Sheet 47 of 47

CONTRACT NO. 6-0V-BY-1
UR
UR'S
1000 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
Telephone: (202) 462-3000
Fax: (202) 462-3001

NOTE: FOR L-1 PROFILE SEE SHEETS 46
N OF F COMPANY
WETLAND PERMIT
FINP 8-200-010

FILL IN WETLAND
HAND CLEARING

WETLAND PERMIT
SITE 3 - L-24+52 to 24+88

MATCH LINE STA 24+80.000 SEE SHEET 8

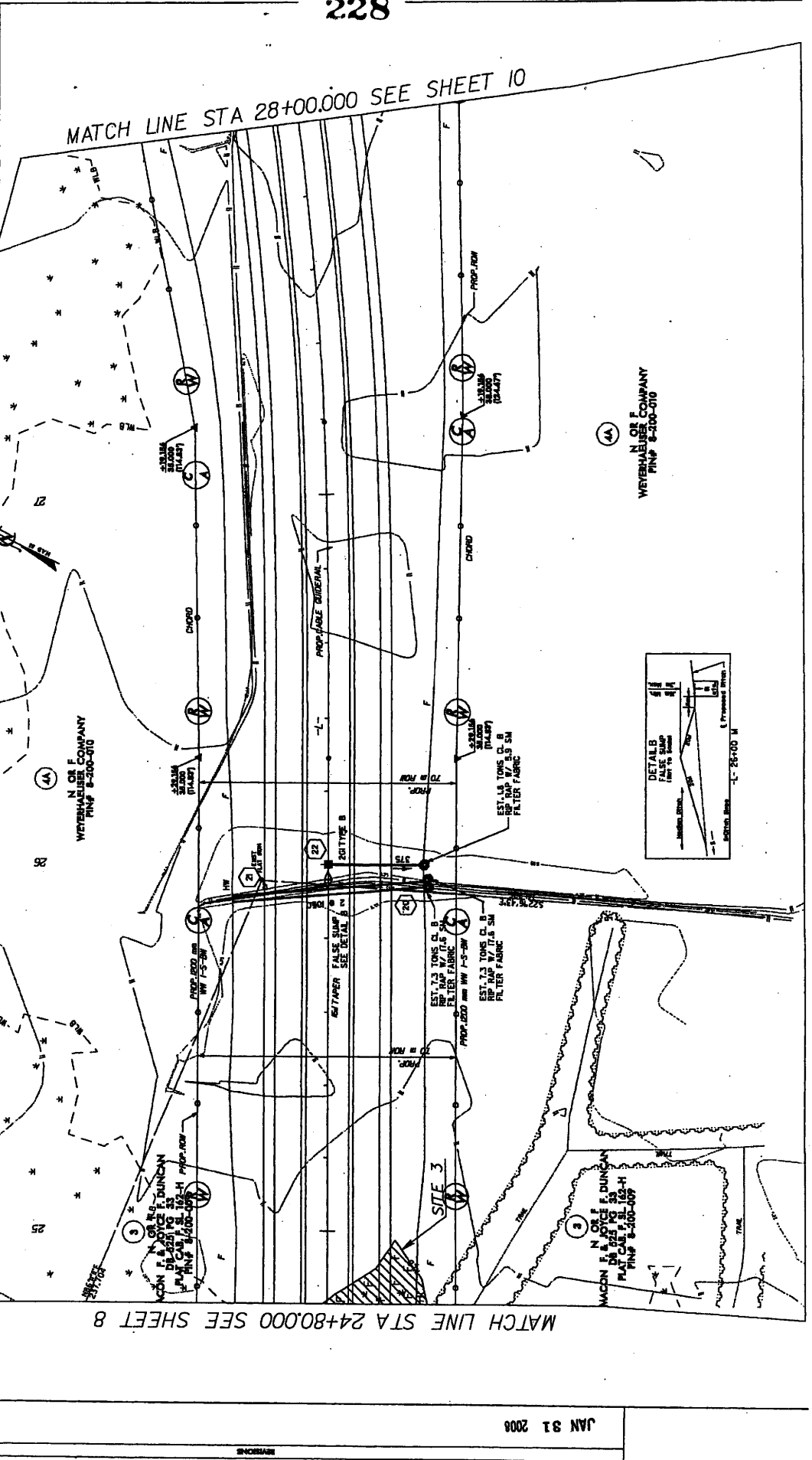
CON F. VOICE F. DUNCAN
DE 2321 PG 33
PLAT C&D P.S. 133-1
FINP 8-200-007

MATCH LINE STA 28+00.000 SEE SHEET 10

WETLAND PERMIT
SITE 3 - L-24+52 to 24+88

CONTRACT NO. 6-0V-BY-1
UR
UR'S
1000 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
Telephone: (202) 462-3000
Fax: (202) 462-3001

NOTE: FOR L-1 PROFILE SEE SHEETS 46
N OF F COMPANY
WETLAND PERMIT
FINP 8-200-010



WETLAND PERMIT
SITE 3 - L-24+52 to 24+88

MATCH LINE STA 24+80.000 SEE SHEET 8

MATCH LINE STA 28+00.000 SEE SHEET 10

CONTRACT NO. 6-0V-BY-1
UR
UR'S
1000 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
Telephone: (202) 462-3000
Fax: (202) 462-3001

FILL IN WETLAND
HAND CLEARING

WETLAND PERMIT
SITE 3 - L-24+52 to 24+88

MATCH LINE STA 24+80.000 SEE SHEET 8

CONTRACT NO. 6-0V-BY-1
UR
UR'S
1000 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
Telephone: (202) 462-3000
Fax: (202) 462-3001

CON F. VOICE F. DUNCAN
DE 2321 PG 33
PLAT C&D P.S. 133-1
FINP 8-200-007

MATCH LINE STA 28+00.000 SEE SHEET 10

WETLAND PERMIT
SITE 3 - L-24+52 to 24+88

CONTRACT NO. 6-0V-BY-1
UR
UR'S
1000 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
Telephone: (202) 462-3000
Fax: (202) 462-3001

PROJECT REFERENCE NO. R-230A
 ROADWAY DESIGN SHEET NO. 1
 ENGINEER: [Signature]
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 18 of 47

UR'S
 URS CORPORATION
 1000 Pennsylvania Park Drive
 Pittsburgh, PA 15222-3324
 PHONE: 412-326-7000
 FAX: 412-326-7001
 WWW: www.urscorp.com

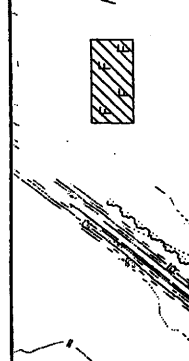
SCALE: 1" = 40'

CONT'D BY: [Signature]
 DATE: 1/11/08

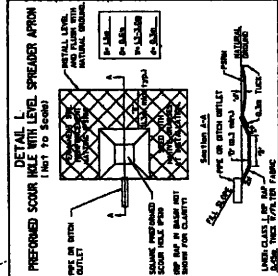
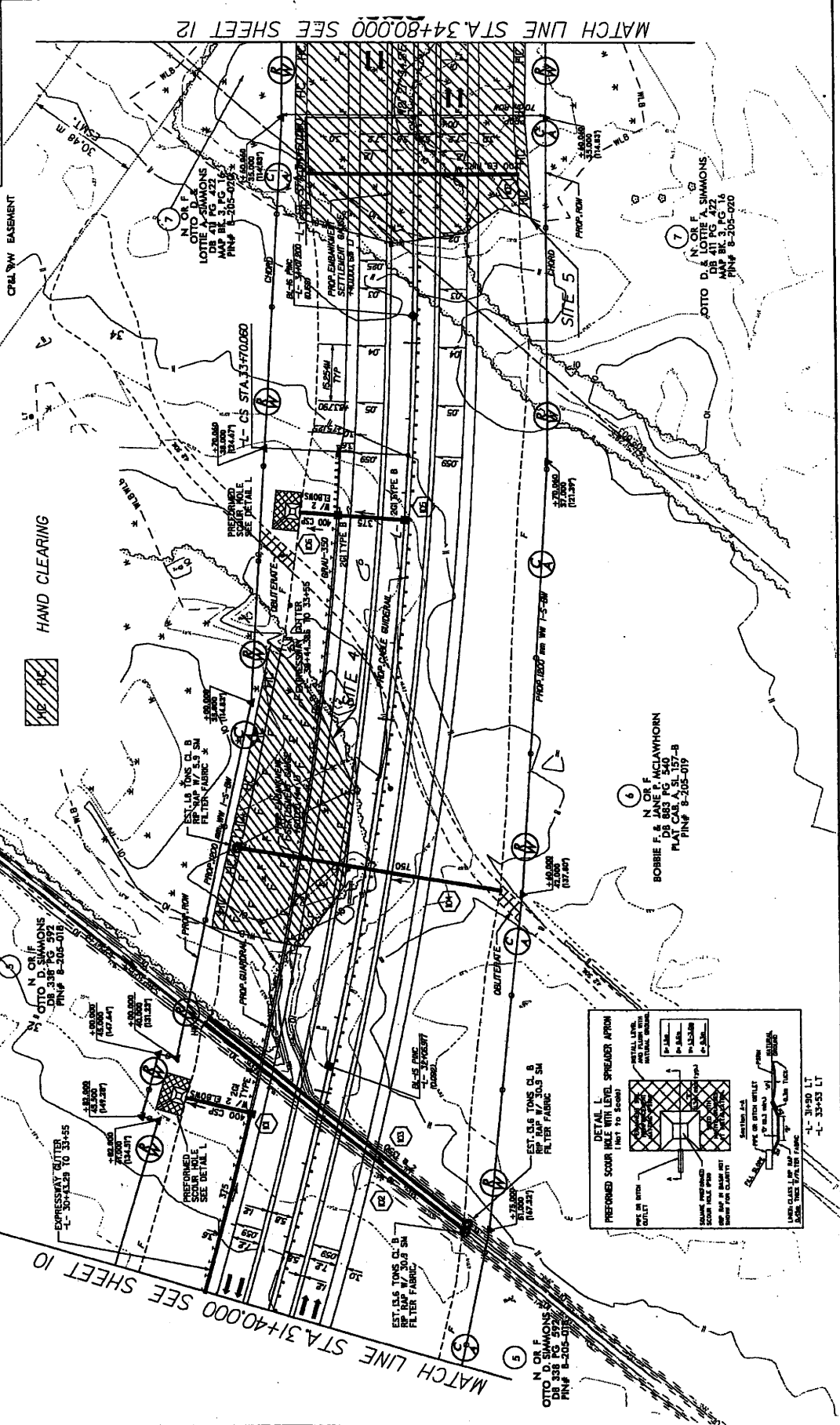
NOTE: FOR 'L' PROFILE SEE SHEET 47

FILL IN WETLAND

HAND CLEARING



WETLAND PERMIT
 SITE 4 -L- 32+36 to 33+12
 SITE 5 -L- 34+27 to 35+08



JAN 91 2008

PROJECT REFERENCE NO. SHEET NO.
 R-230A R.V.M. SHEET NO. 12
 ROADWAY DESIGN ENGINEER
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 19 of 47

URS
 URS CORPORATION
 1000 Park Center Drive
 St. Louis, MO 63102
 (314) 433-8000
 www.urscorp.com

METRICS
 METRICS ENGINEERS, INC.
 1000 Park Center Drive
 St. Louis, MO 63102
 (314) 433-8000
 www.metricsinc.com

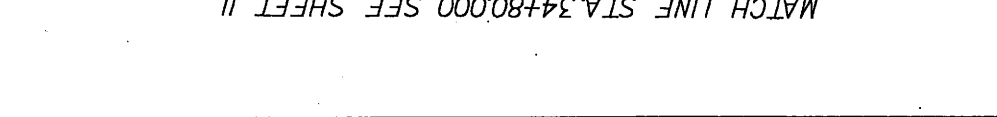
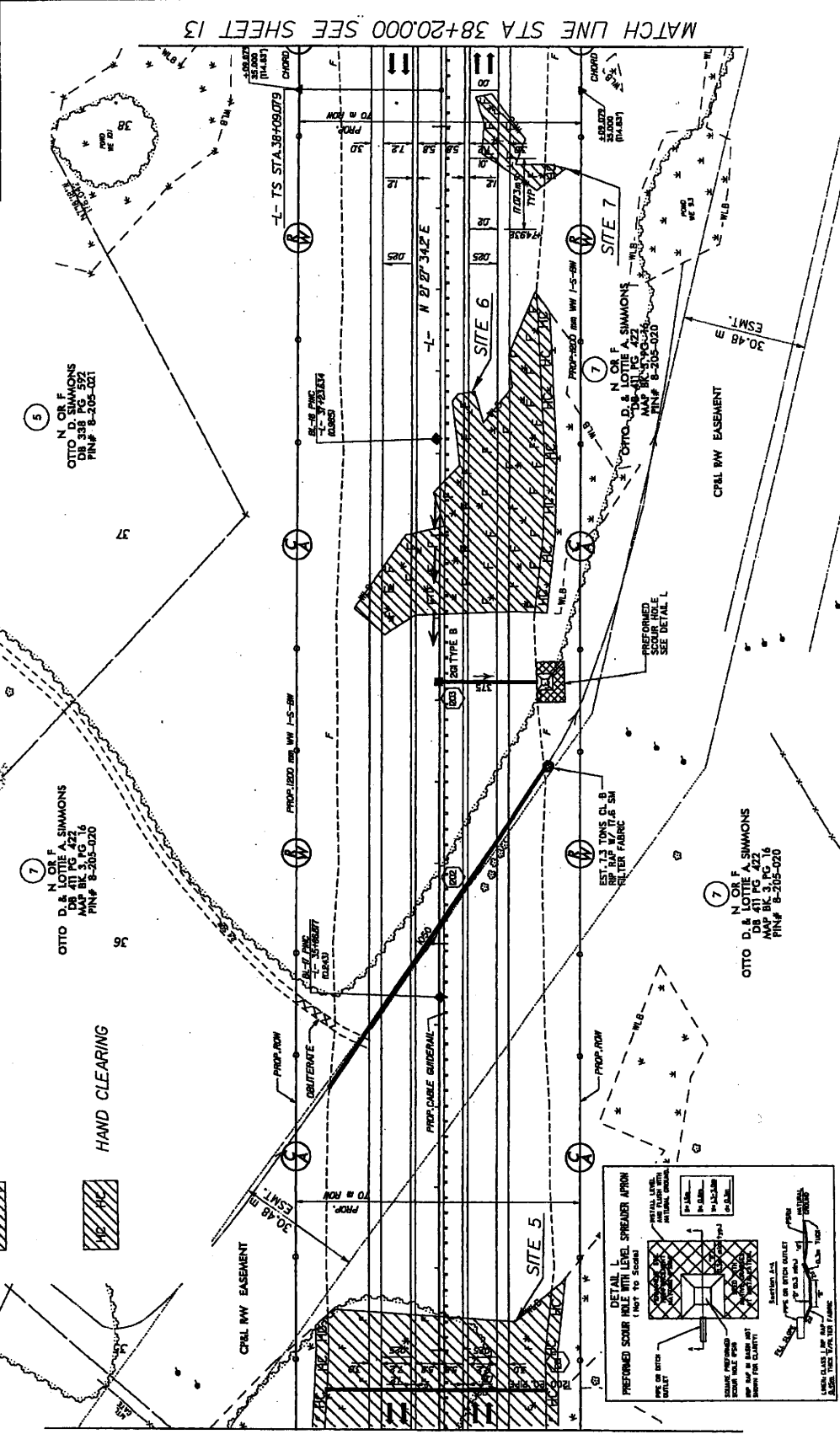
CONST. BY:
 R.V.M. INC.

NOTE: FOR "L" PROFILE SEE SHEETS 47-48

CURVE DATA "L"
 PIV STN = 38+527.47
 OS = 1.20 / 12.5'
 GS = 70.000
 LT = 46.668
 ST = 23.335
 SE = 41%

FILL IN WETLAND
 HAND CLEARING

WETLAND PERMIT
 SITE 5 - L- 34+27 to 35+08
 SITE 6 - L- 36+81 to 37+60
 SITE 7 - L- 37+84 to 38+07



MATCH LINE STA. 34+80.00 SEE SHEET 11

MATCH LINE STA. 38+20.00 SEE SHEET 13

JAN 31 2001

REVISIONS

WETLAND PERMIT
 SITE 5 - L-34+27 to 35+08
 SITE 6 - L-36+81 to 37+60
 SITE 7 - L-37+84 to 38+07

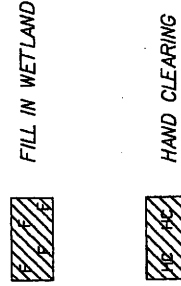
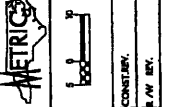
CURVE DATA
 PIS STN 38+527.71
 $\theta = 120.123^\circ$
 $L_c = 70.000$
 $ES = 46.659$
 $ST = 23.335$
 $SE = 41\%$

NOTE FOR - PROFILE SEE SHEETS 4-8

URS
 URS CONSULTANTS, INC.
 10000 W. CENTURY BLVD., SUITE 100
 LOS ANGELES, CA 90045
 TEL: 310.440.2000
 FAX: 310.440.2001
 WWW.URS-CORP.COM



PROJECT REFERENCE NO. R-230A
 L & N SHEET NO. 12
 ROADWAY DESIGN ENGINEER
 PRELIMINARY PLANS
 PERMIT DRAWING
 SHEET 20 of 47



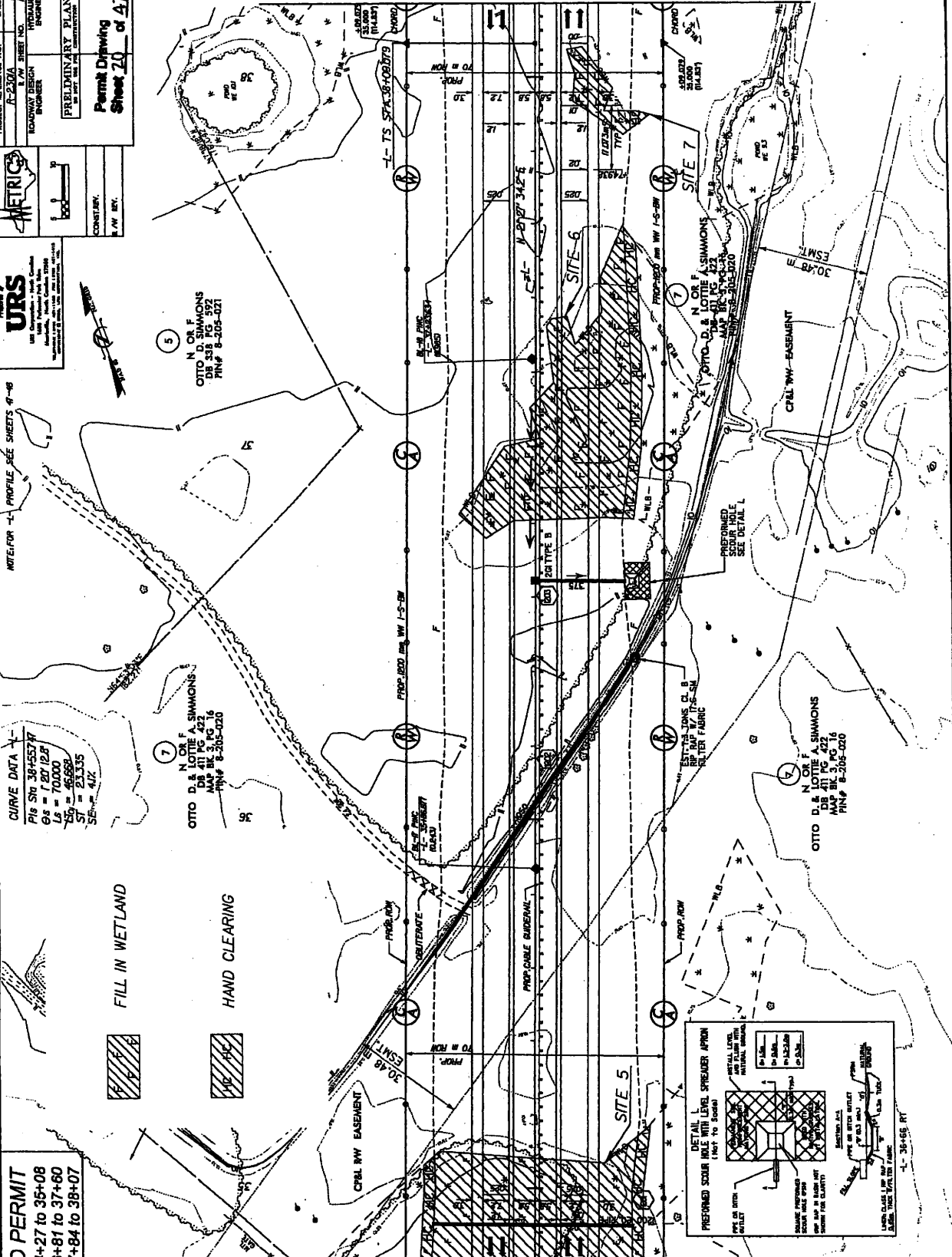
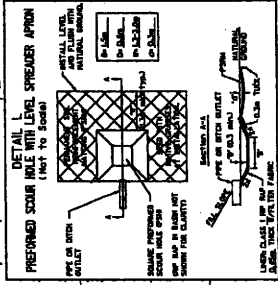
OTTO D & LOTTE A. SIMMONS
 D.B. 314 PG. 522
 MAP # 8-205-021

OTTO D & LOTTE A. SIMMONS
 D.B. 314 PG. 522
 MAP # 8-205-020

OTTO D & LOTTE A. SIMMONS
 D.B. 314 PG. 522
 MAP # 8-205-020

MATCH LINE STA. 34+80.00 SEE SHEET 11

MATCH LINE STA 38+20.00 SEE SHEET 13



JAN 31 2008

REVISIONS

PROJECT REFERENCE NO. R-230A
 SHEET NO. 13
 ROADWAY DESIGN
 CONTRACTOR
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 21 of 47

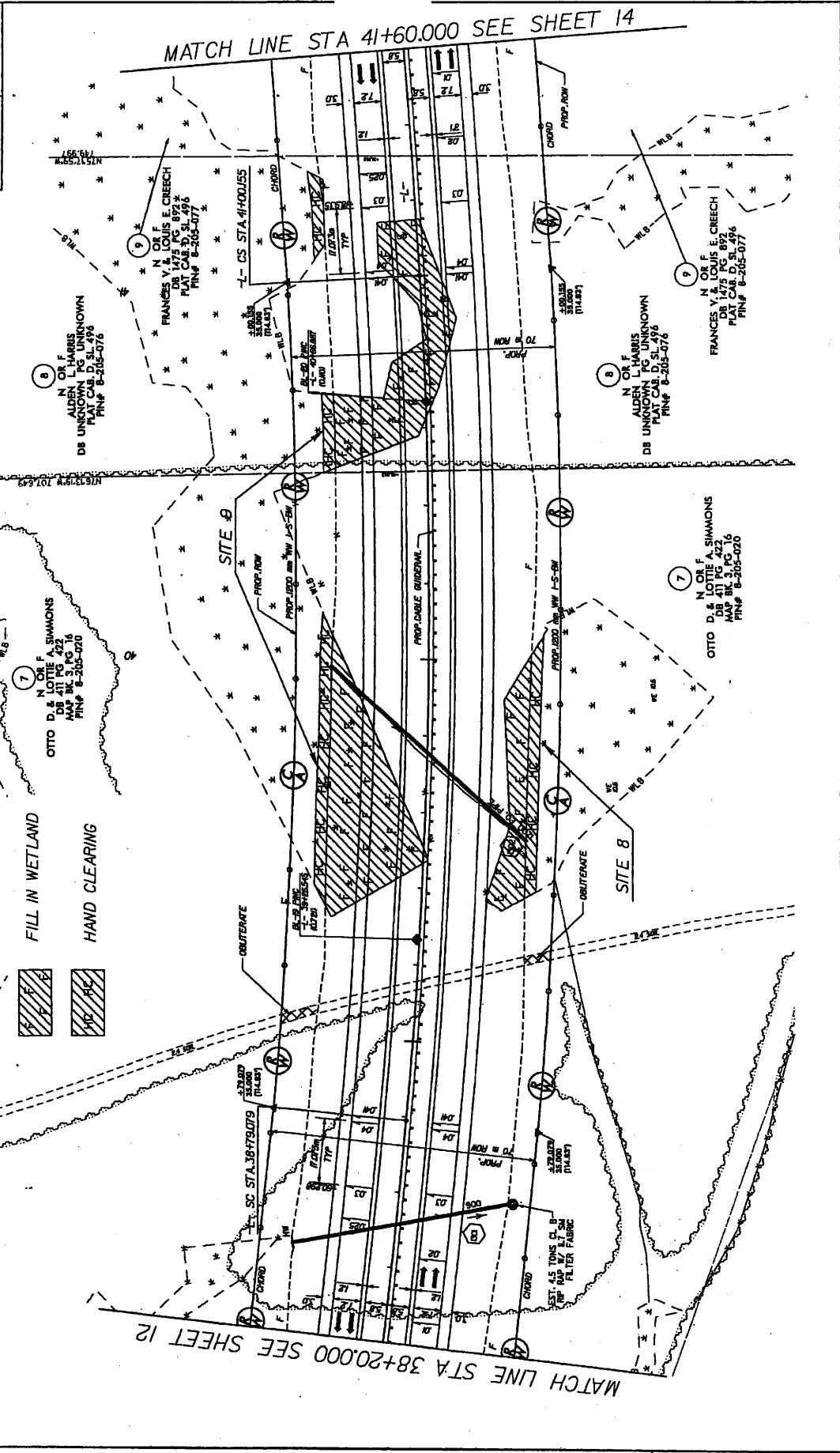
URSI
 URS Corporation
 1000 Pennsylvania Plaza, Suite 1000
 Pittsburgh, PA 15222-3333
 Phone: 412.326.7000
 Fax: 412.326.7001
 Website: www.urscorp.com

NOTE FOR T-1 PROFILE SEE SHEET 48

CURVE DATA T-1

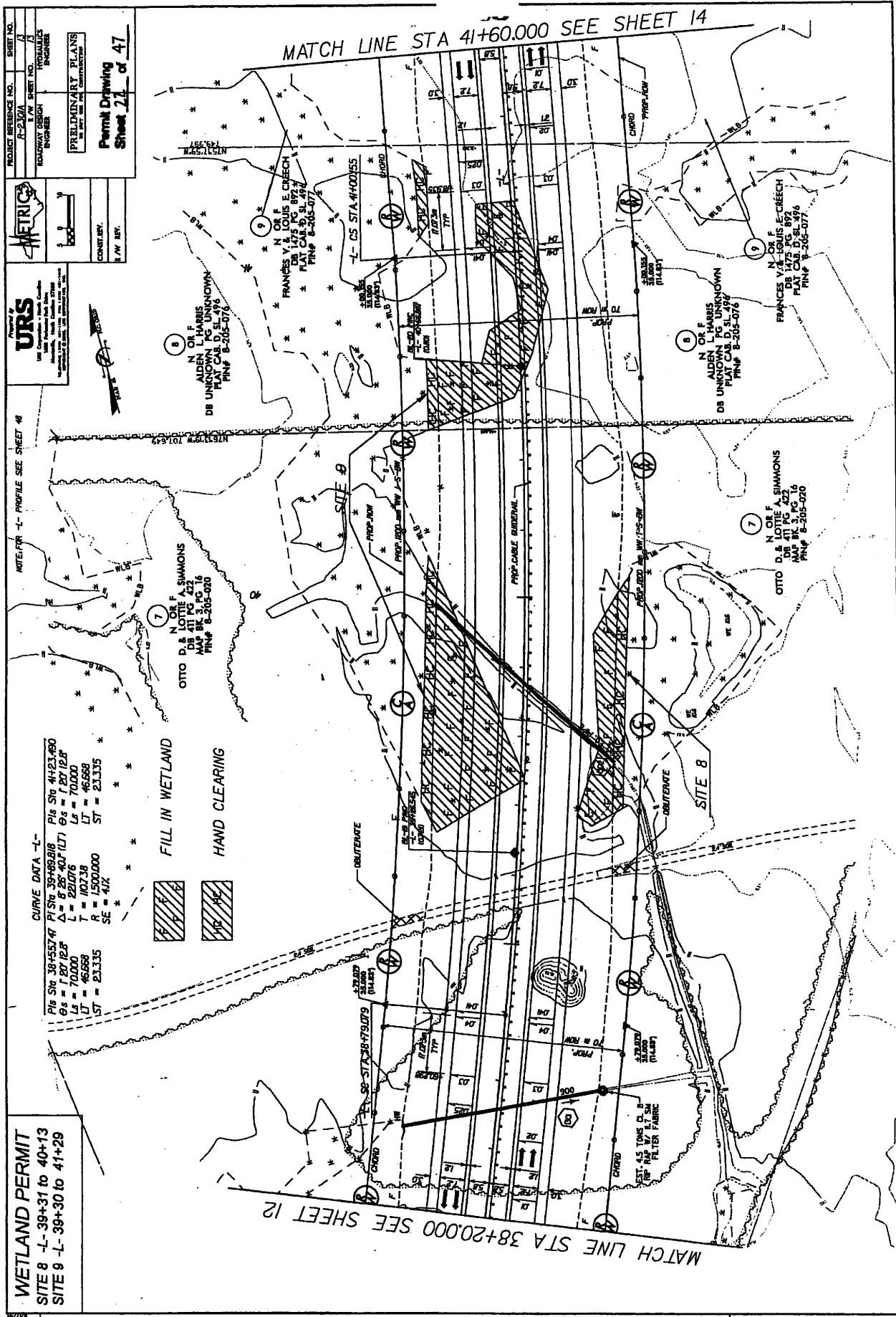
| | | |
|-------------------|--------------------|-------------------|
| P16 STA 38+452.47 | P15 STA 38+459.818 | P16 STA 41+23.800 |
| CS = 700.00 | CS = 287.407 (LT) | CS = 700.00 |
| LI = 46.688 | L = 221.076 | LI = 700.00 |
| ST = 23.335 | T = 1107.38 | ST = 23.335 |
| | R = 1500.000 | |
| | SE = 41X | |

WETLAND PERMIT
 SITE 8 - L-39+31 to 40+13
 SITE 9 - L-39+30 to 41+29



JAN 31 2006

REVISIONS



PROJECT REFERENCE NO. R-2307A
 SHEET NO. 47
 PRELIMINARY PLANS
 PERMIT DRAWING
 SHEET 21 of 47

URS
 1800 Commonwealth Blvd., Suite 2000
 Irvine, CA 92614
 TEL: 949.222.0800
 FAX: 949.222.0801
 WWW: www.urscorp.com

CONTRACT NO. 1000000000
 DATE 10/11/07

WETLAND PERMIT
 SITE 8 -L- 39+31 to 40+13
 SITE 9 -L- 39+30 to 41+29

CURVE DATA -L-
 Pts Sta 38+55.74 PI Sta 39+89.218
 Δ = 8 28' 40" (LT) Θs = 1 20' 12"
 L = 292.076 T = 1107.38 R = 15000.000
 LS = 70.000 LT = 46.668 SE = 41X
 ST = 23.135

FILL IN WETLAND
 HAND CLEARING

PROPOSED HIGHWAY
 PROPOSED RAILROAD

PROPOSED HIGHWAY
 PROPOSED RAILROAD

PROPOSED HIGHWAY
 PROPOSED RAILROAD

JAN 31 2008

PROJECT REFERENCE NO. SHEET NO.
 17-235A SHEET NO. 5
 ROADWAY DESIGN
 METRIC CIVIL ENGINEER

PRELIMINARY PLANS
 Permit Drawing
 Sheet 2 of 47

CONST. REV.
 PLAN REV.

URS
 URS Corporation
 1000 Pennsylvania Park
 Suite 1000
 Pittsburgh, PA 15222

NOTE FOR -L- PROFILE SEE SHEET 49

WETLAND PERMIT
 SITE 10 -L- 45+66 to 47+32

FILL IN WETLAND
 EXCAVATION IN WATLAND
 HAND CLEARING

MATCH LINE STA. 45+00.00 SEE SHEET 14

MATCH LINE STA. 48+40.00 SEE SHEET 16

FORREST E. WINGES, JR.
 DB 1000 PG. 443
 PLAT CAR A, SL. 76-B
 PIN# 8-205-059

FORREST E. WINGES, JR.
 DB 1000 PG. 703
 PLAT CAR A, SL. 76-B
 PIN# 8-205-030

FORREST E. WINGES, JR.
 DB 1000 PG. 443
 PLAT CAR A, SL. 76-B
 PIN# 8-205-059

FORREST E. WINGES, JR.
 DB 1000 PG. 703
 PLAT CAR A, SL. 76-B
 PIN# 8-205-030

PREPARED SOIL HOLE WITH LEVEL SPREADER APRON
 (NOT TO SCALE)

DETAIL L
 INLET CHANNEL
 (NOT TO SCALE)

DETAIL M
 OUTLET CHANNEL
 (NOT TO SCALE)

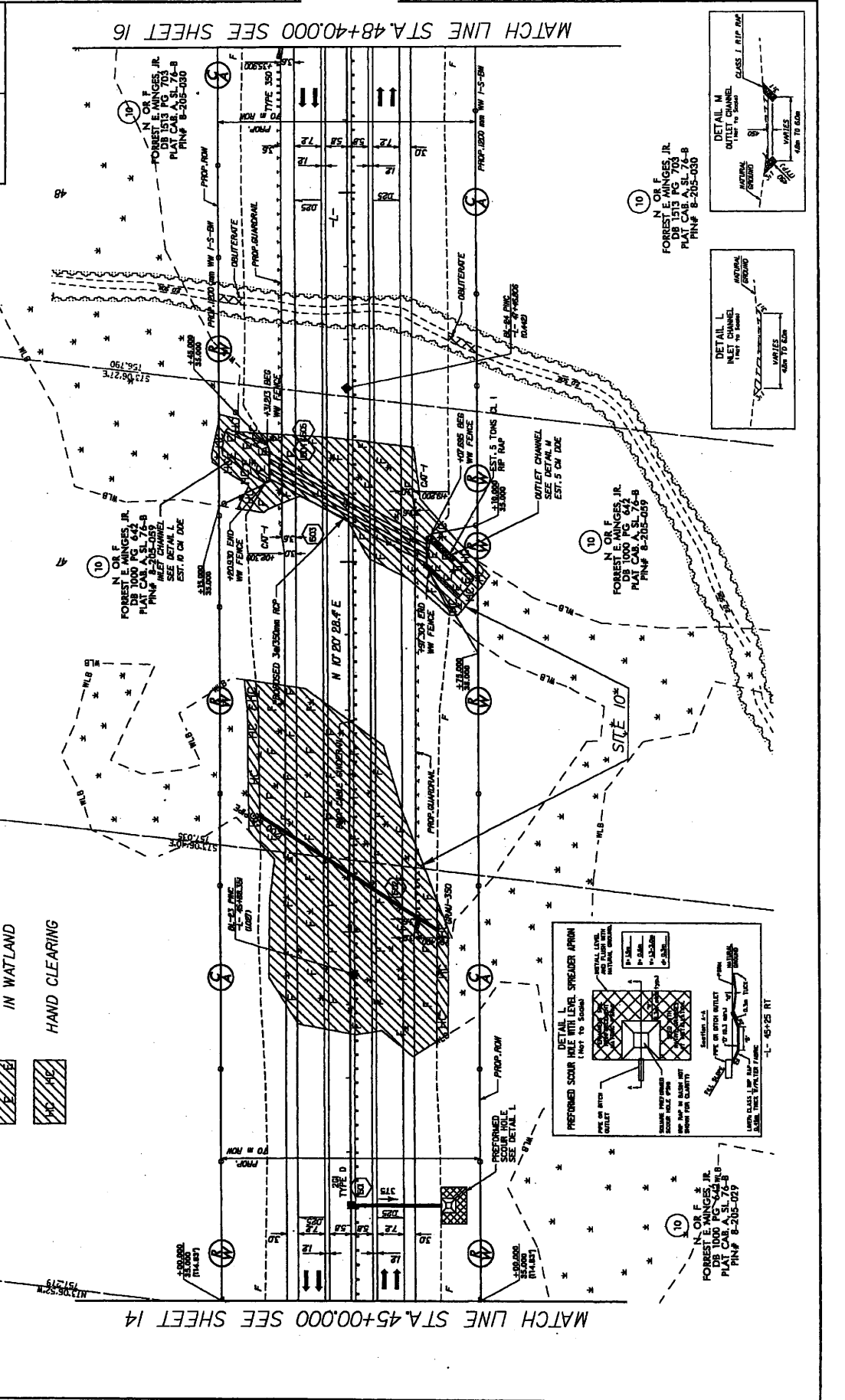
CLASS I RIP ROCK

PREPARED SOIL HOLE WITH LEVEL SPREADER APRON
 (NOT TO SCALE)

DETAIL L
 INLET CHANNEL
 (NOT TO SCALE)

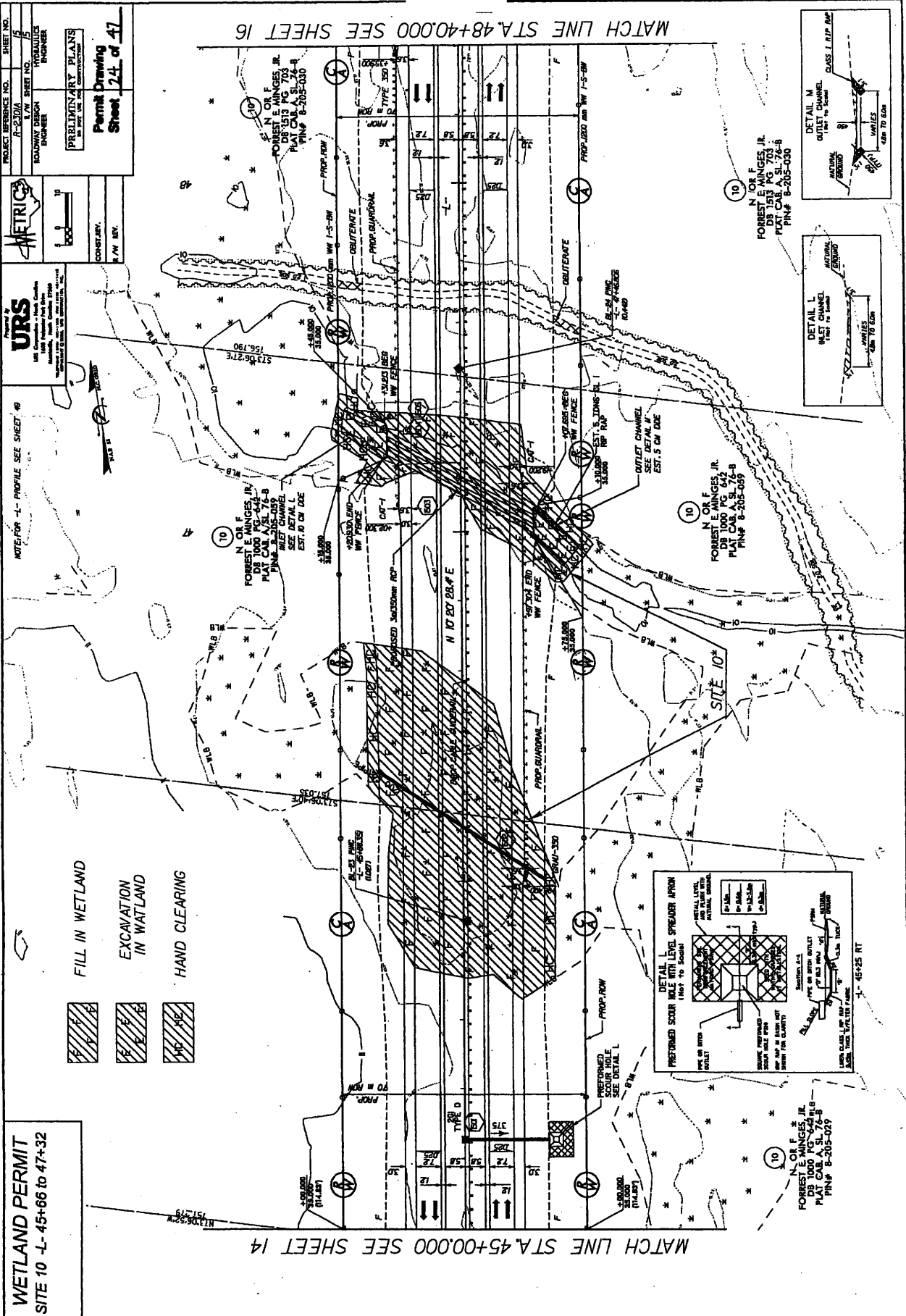
DETAIL M
 OUTLET CHANNEL
 (NOT TO SCALE)

CLASS I RIP ROCK



REVISIONS

JAN 31 2008



PROJECT INSURANCE NO. SHEET NO.
 J-250M SHEET NO. 47
 ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER

PRELIMINARY PLANS
 PERMIT DRAWING
 SHEET 24 OF 47

URS
 1000 Pennsylvania Avenue, N.W.
 Washington, D.C. 20004

METRIC

CONSULTANT
 R. W. BRY

NOTE FOR L - PROFILE SEE SHEET 48

WETLAND PERMIT
 SITE 10 - L-45+66 to 47+32

FILL IN WETLAND

EXCAVATION IN WATLAND

HAND CLEARING

REVISIONS

JAN 31 2006

MATCH LINE STA. 48+40.00 SEE SHEET 16

MATCH LINE STA. 45+00.00 SEE SHEET 14

DETAIL M
 OUTLET CHANNEL
 FLOW TO SOULS
 CLASS I RIP-RAP
 4'-0" TO 6'-0" DIAM.

DETAIL L
 INLET CHANNEL
 FLOW TO SOULS
 CLASS I RIP-RAP
 4'-0" TO 6'-0" DIAM.

DETAIL L
 PREFORMED SOUL MATE WITH LEVEL SPREADER APRON
 (NET TO SOULS)
 INSTALL LEVEL WITH INITIAL SURFACE.
 (SEE DETAIL L)
 PREFORMED SOUL MATE WITH LEVEL SPREADER APRON
 (NET TO SOULS)
 INSTALL LEVEL WITH INITIAL SURFACE.
 (SEE DETAIL L)

FORREST L. MINGES, JR.
 DBE 1000 PG. 624-B
 PLAT. CAB. A, SL. 76-B
 P/NP# 8-205-027

FORREST L. MINGES, JR.
 DBE 1000 PG. 793-B
 PLAT. CAB. A, SL. 74-B
 P/NP# 8-205-030

FORREST L. MINGES, JR.
 DBE 1000 PG. 744-B
 PLAT. CAB. A, SL. 74-B
 P/NP# 8-205-059

FORREST L. MINGES, JR.
 DBE 1000 PG. 793-B
 PLAT. CAB. A, SL. 74-B
 P/NP# 8-205-030

WETLAND PERMIT
SITE 10A



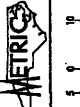
HAND CLEARING

(4B)
N OR F
WEYERHAEUSER COMPANY
DB: 370 PG 53
PLAT CAB. C, SL. 52

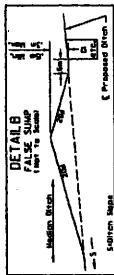
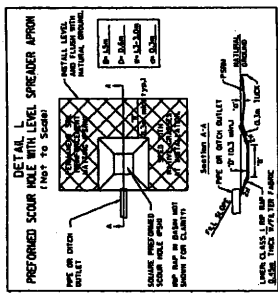
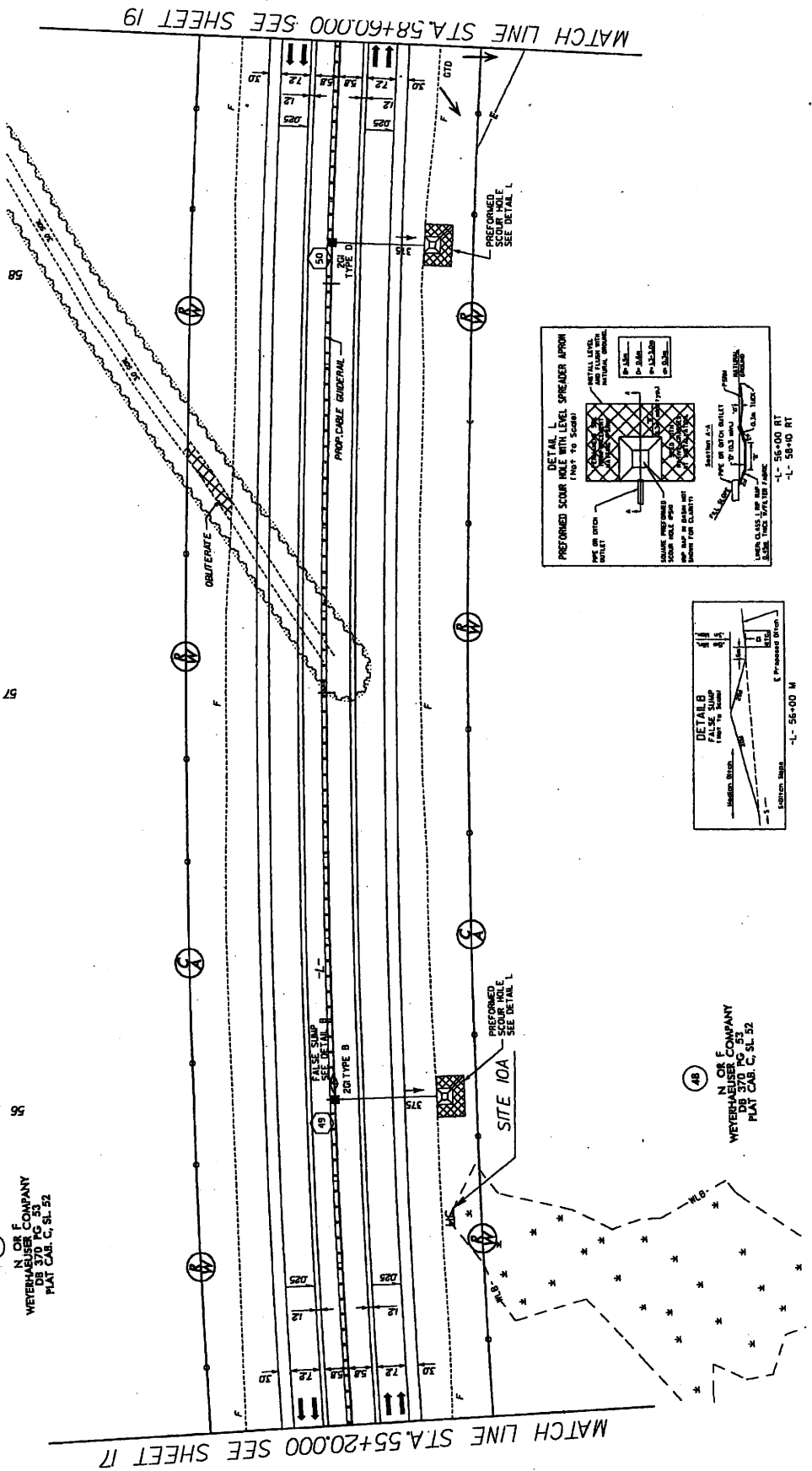
(4B)
N OR F
WEYERHAEUSER COMPANY
DB: 370 PG 53
PLAT CAB. C, SL. 52

NOTE: FOR "L" PROFILE SEE SHEET 50-51

Prepared by
URS
URS Corporation - a World Class Company
1111 North West Parkway
Atlanta, Georgia 30328
Telephone: 404.221.1000
FAX: 404.221.1001




PROJECT REFERENCE NO. SHEET NO.
R-230A SHEET 15 OF 16
ROADWAY DESIGN HYDRAULICS ENGINEER
PRELIMINARY PLANS
NO. 1001 USE FOR INFORMATION
Permit Drawing
Sheet 25 of 47
CONSTRUC. R/W REV.



MATCH LINE STA. 55+20.00 SEE SHEET 17

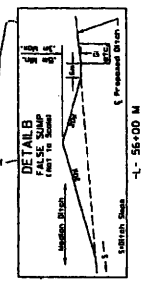
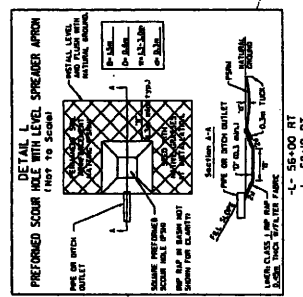
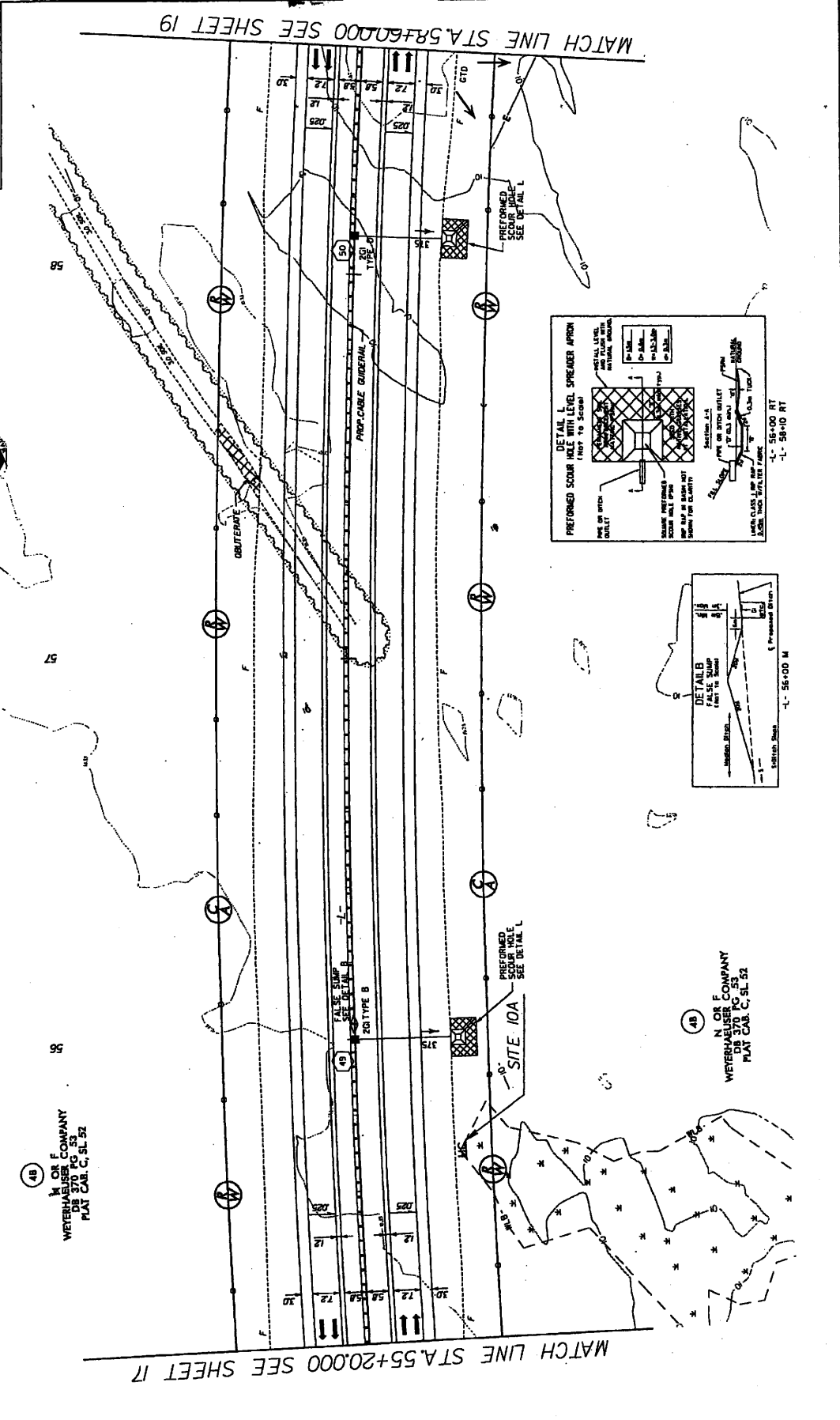
MATCH LINE STA. 58+60.00 SEE SHEET 19

PROJECT REFERENCE NO. SHEET NO.
 P-2301A 18
 PROJECT SHEET NO. 18
 DESIGN ENGINEER
 PERMIT DRAWING
 Sheet 24 of 47
 URS
 CONSULTING ENGINEERS
 1400 RIVERVIEW AVENUE
 SUITE 200
 WILSONVILLE, OR 97150
 CONTRACTOR
 R.V. BRY

NOTE: FOR "L" PROFILE SEE SHEET 50-51
 WETLAND PERMIT
 SITE 10A
 HAND CLEARING


PREPARED BY PLANS
 DATE: 12/15/03
 CHECKED BY: J.M. BRY
 DATE: 1/13/04
 DESIGN ENGINEER
 R.V. BRY

NOTE: FOR "L" PROFILE SEE SHEET 50-51
 URS
 CONSULTING ENGINEERS
 1400 RIVERVIEW AVENUE
 SUITE 200
 WILSONVILLE, OR 97150
 CONTRACTOR
 R.V. BRY



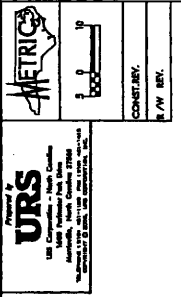
N. OR E.
 WETTERHAEUSER COMPANY
 DB 370 PG 53
 PLAT CAB. C. SL. 52

WETLAND PERMIT
 SITE 11 -L- 61+78 to 69+22

PROJECT INSURANCE NO. _____ SHEET NO. 18
 JT-2300A SHEET NO. 18
 ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

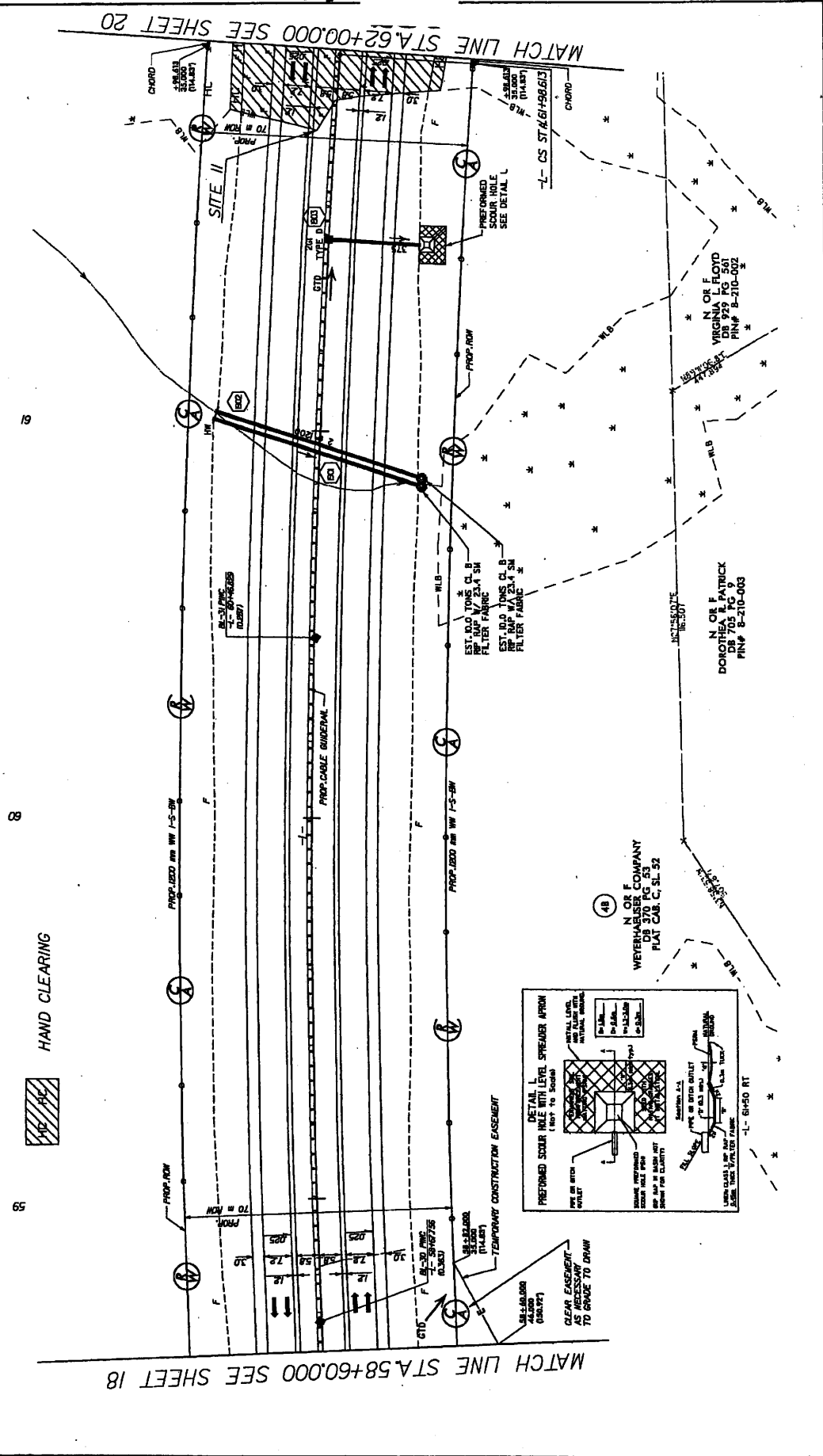
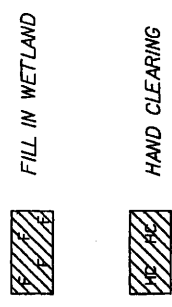
PRELIMINARY PLANS
 Permit Drawing
 Sheet 18 of 47

CONTRACT NO. _____
 S/W REV. _____



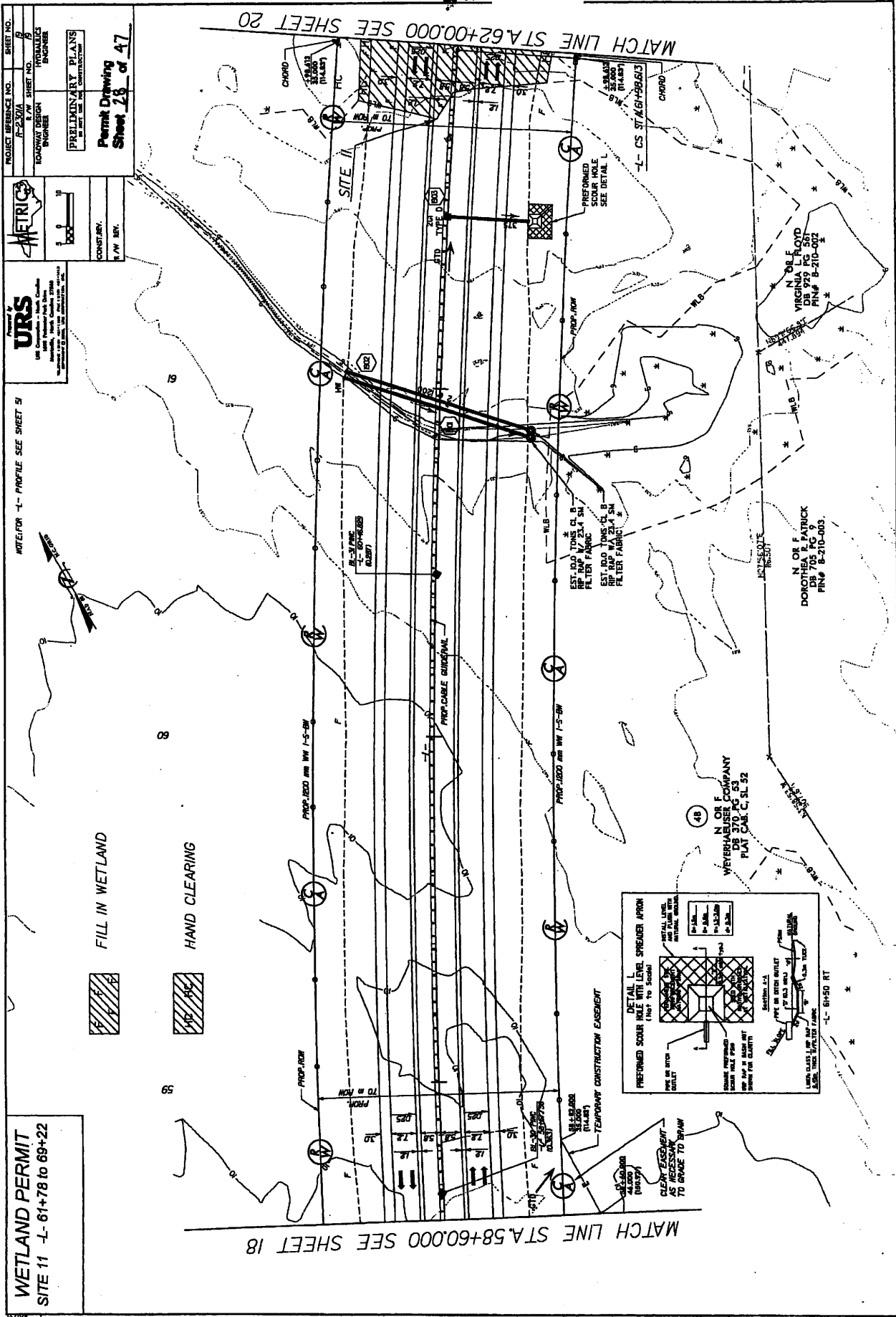
NOTE: FOR -L- PROFILE SEE SHEET 5

SCALE: 1" = 20' (PLAN)
 1" = 20' (PROFILE)



239

JAN 31 2008



PROJECT REFERENCE NO. SHEET NO.
 F-237A 1/4" SHEET NO. 8
 HYDRAULICS ENGINEER

PRELIMINARY PLANS
 OF THE PROJECT FOR CONSTRUCTION

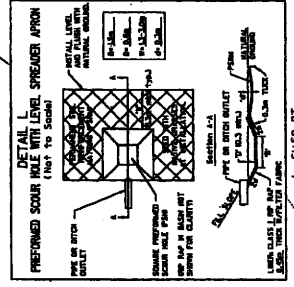
Permit Drawing
 Sheet 28 of 47

CONST. BY
 E. W. BRY.

URS
 URS CORPORATION
 1000 PINE BLVD., SUITE 1000
 ANN ARBOR, MI 48106-1500
 TEL: 734.769.7000 FAX: 734.769.7001

NOTE: FOR 1- PROFILE SEE SHEET 51

WETLAND PERMIT
 SITE 11 -L- 61+78 to 69+22



DETAIL OF SOIL NAIL LEVEL SPREADER APRON (NOT TO SCALE)

PREPARED AND W/ 1-5-SW
 PREPARED AND W/ 1-5-SW
 PREPARED AND W/ 1-5-SW
 PREPARED AND W/ 1-5-SW

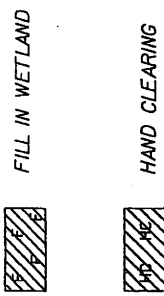
WETLAND PERMIT
 SITE 11 -L- 61+78 to 69+22

NOTE FOR 'L' PROFILE SEE SHEETS 9-42

URS
 URS Corporation - North Carolina
 10000 University City Blvd., Suite 1000
 Charlotte, NC 28226-4000
 PHONE: 704.366.7000 FAX: 704.366.7001
 WWW: www.urscorp.com



| | | |
|--|------------------------|-----------------|
| PROJECT REFERENCE NO. J-17A | SHEET NO. 27 | SHEET NO. 27 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER | |
| PRELIMINARY PLANS FOR THE USE OF THE SUBMITTANT | | |
| Permit Drawing Sheet 29 of 47 | | |

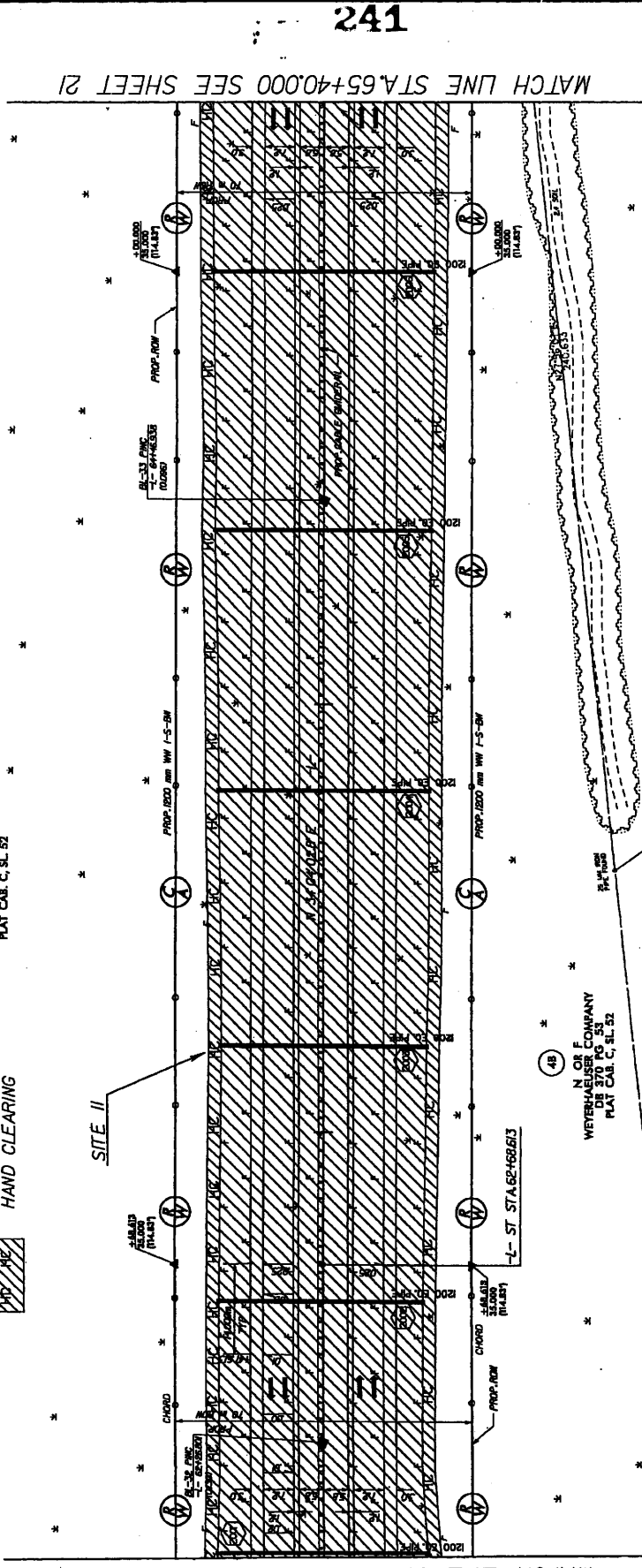


N OR F
 WEYERHAEUSER COMPANY
 DB 370 PG 53
 PLAT C.B. C. SL. 52

N OR F
 WEYERHAEUSER COMPANY
 DB 370 PG 53
 PLAT C.B. C. SL. 52

N OR F
 VIRGINIA L. FLOYD
 DB 929 PG 561
 MAP BK. 5 PG. 98
 PIN# B-210-044

N OR F
 CHAMPION
 INTERNATIONAL CORP
 DB 444 PG 561
 MAP BK. 5 PG. 98
 PIN# B-210-044



MATCH LINE STA. 62+00.00 SEE SHEET 19

MATCH LINE STA. 65+40.00 SEE SHEET 21

241

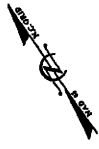
PLAN 91 2008

PROJECT REFERENCE NO. SHEET NO.
 F-230A 20
 ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER
 PRELIMINARY PLANS
 AS NOTED FOR CONSTRUCTION
Permit Drawing
Sheet 30 of 47

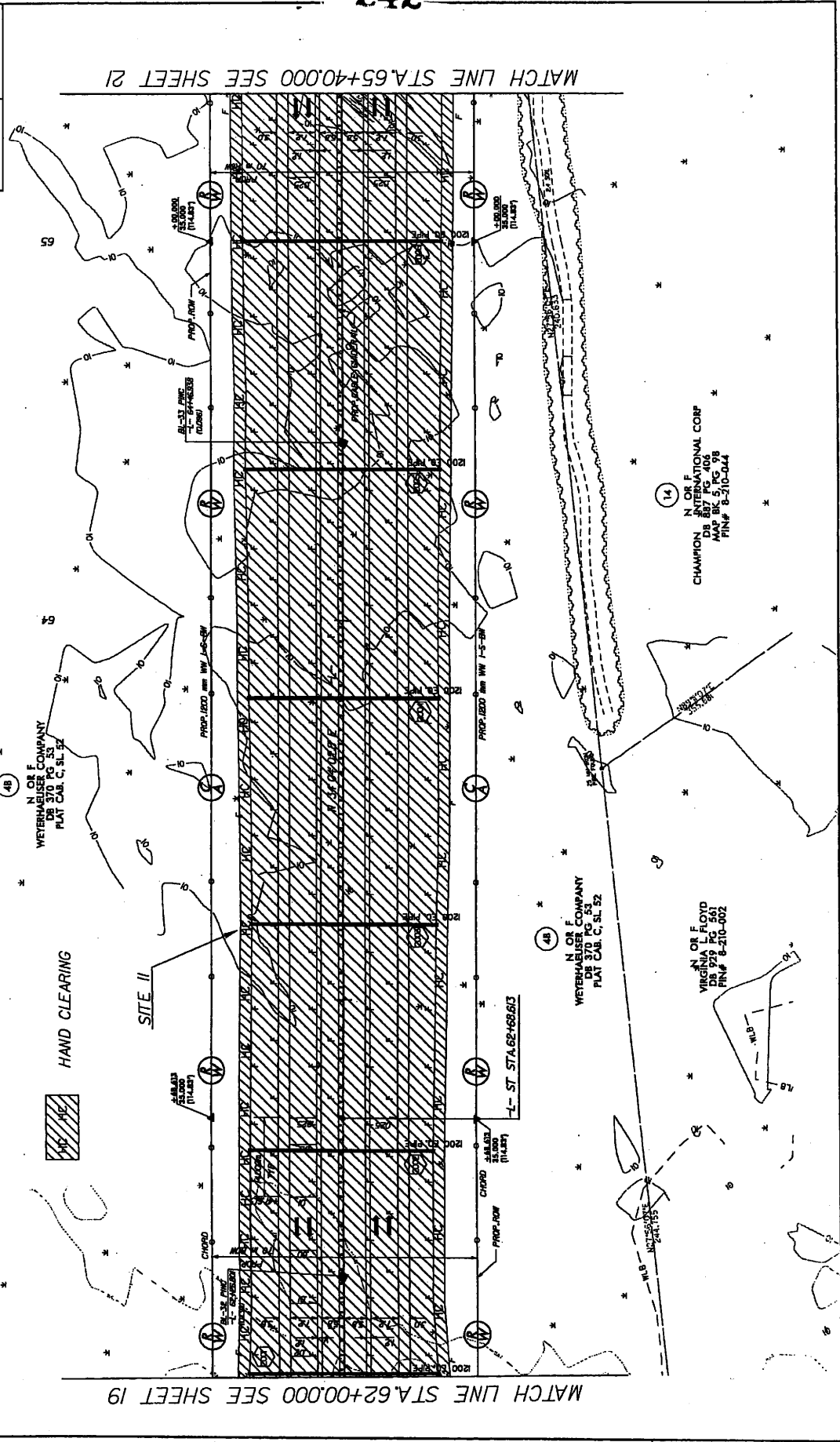
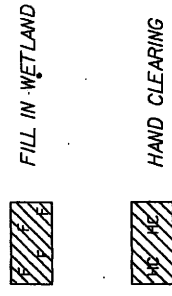
URS
 1800 Commonwealth Blvd., Suite 2000
 Reston, VA 20191
 (703) 441-1100
 www.urscorp.com

CONVEYED BY
 E.W. IRVING

NOTE: FOR L-1 PROFILE SEE SHEETS 5-32



WETLAND PERMIT
 SITE 11 -L- 61+78 to 69+22



MATCH LINE STA. 65+40.00 SEE SHEET 21

MATCH LINE STA. 62+00.00 SEE SHEET 19

JAN 31 2008

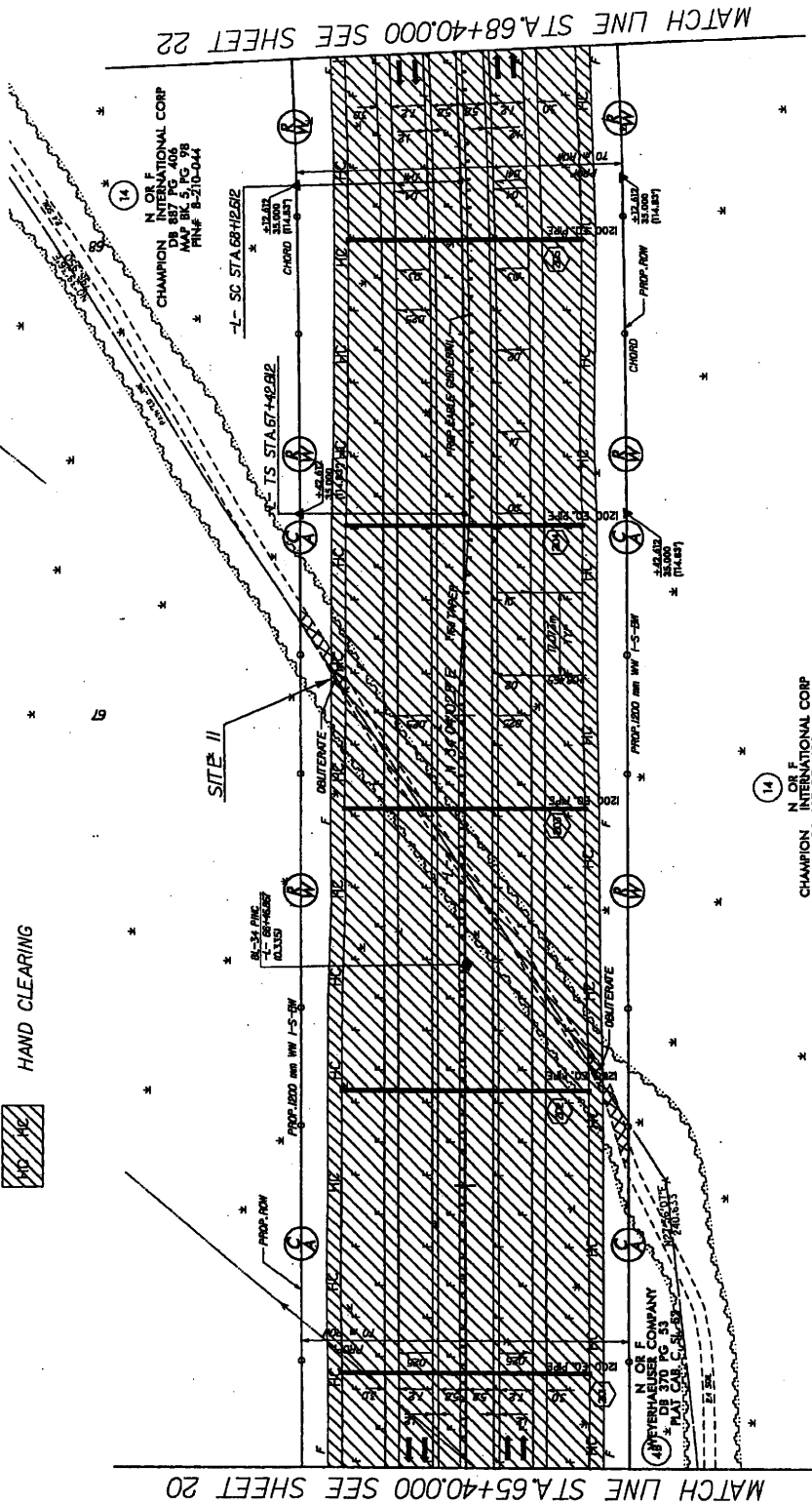
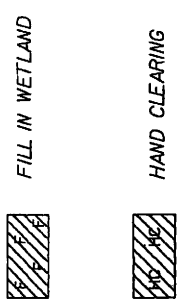
| | |
|-------------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 7-2-00A | 2 |
| ROADWAY DESIGN ENGINEER | PROVINCIAL ENGINEER |
| | |
| PRELIMINARY PLANS | |
| Permit Drawing Sheet 31 of 47 | |

URS
 URS Corporation
 1000 Pennsylvania Avenue, N.W.
 Washington, D.C. 20004-1201
 PHONE: 202/295-2000 FAX: 202/295-2001
 WWW: www.urscorp.com

METRICS
 CONSULTING
 P.L.V. REV.

NOTE: FOR "L" PROFILE SEE SHEET 32

WETLAND PERMIT
 SITE 11 - L-61+78 to 69+22



MATCH LINE STA. 68+40.00 SEE SHEET 22

MATCH LINE STA. 65+40.00 SEE SHEET 20

N. O. F.
 CHAMPION INTERNATIONAL CORP.
 DB 887 PG. 408
 MAP BK. 5, PG. 98
 P/N# 8-210-044

14
 N. O. F.
 CHAMPION INTERNATIONAL CORP.
 DB 887 PG. 408
 MAP BK. 5, PG. 98
 P/N# 8-210-044

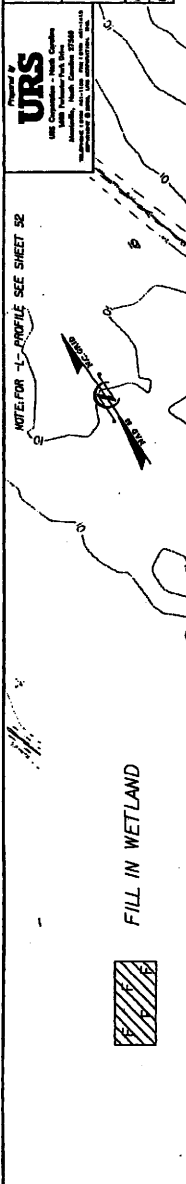
N. O. F.
 ARTHUR HAEUSER COMPANY
 1000 Pennsylvania Avenue, N.W.
 Washington, D.C. 20004-1201
 PHONE: 202/295-2000 FAX: 202/295-2001
 WWW: www.urscorp.com

| | |
|-------------------------|--------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| A-237A | 2 |
| ROADWAY DESIGN ENGINEER | PROWALICE ENGINEER |
| PRELIMINARY PLANS | |
| Permit Drawing | |
| Sheet 54 of 47 | |

URS
 URS CORPORATION
 10000 North Central Expressway
 Suite 1000
 Dallas, Texas 75243-9699
 Phone: 972.960.8800
 Fax: 972.960.8801
 www.urscorp.com

METRICS
 1" = 40'

CONSTRY.
 1/4" = 100'

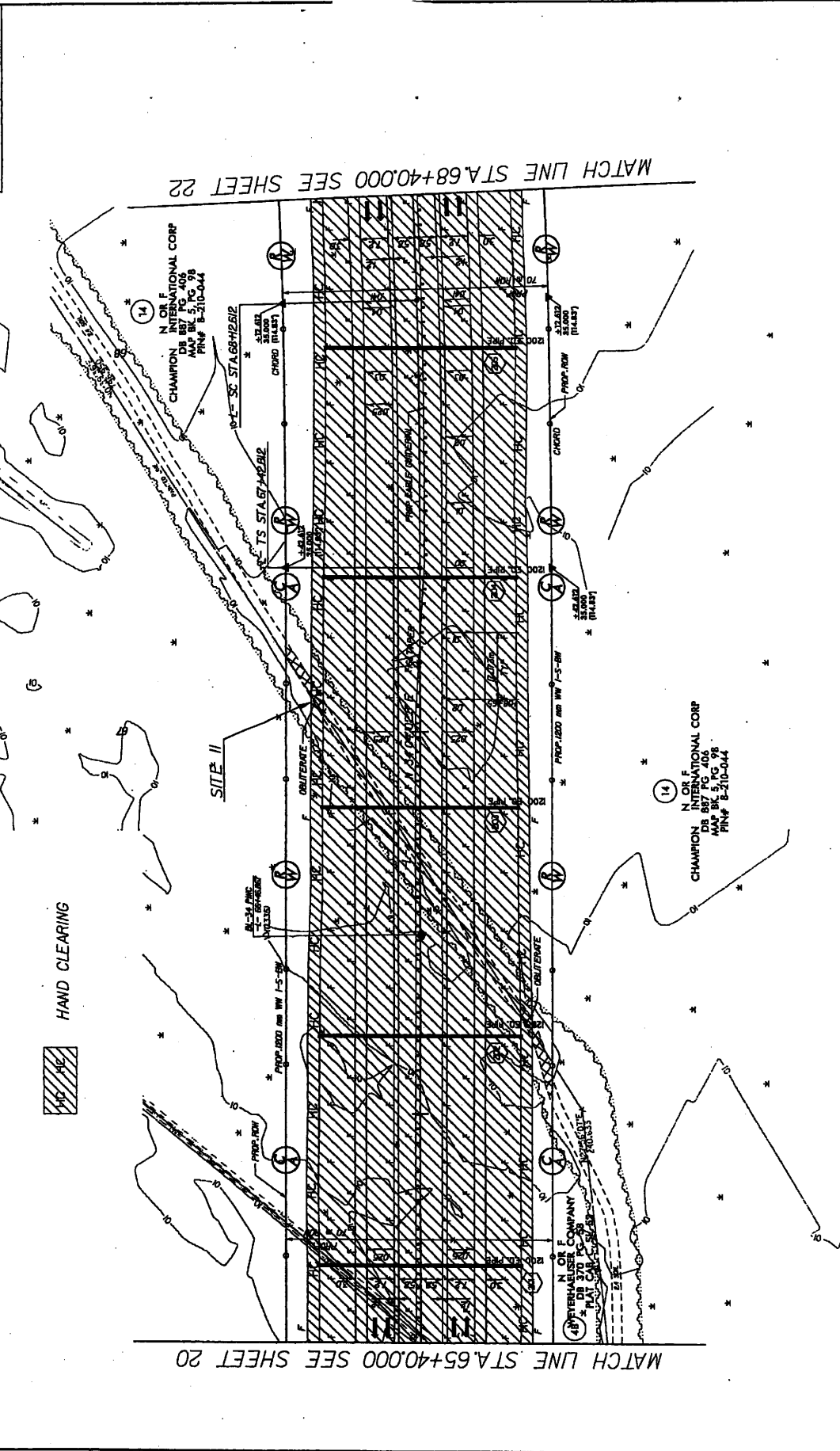


WETLAND PERMIT
 SITE 11 - L-61+78 to 69+22

FILL IN WETLAND



HAND CLEARING



MATCH LINE STA. 68+40.00 SEE SHEET 22

MATCH LINE STA. 65+40.00 SEE SHEET 20

JAN 31 2003

REVISIONS

PROJECT REFERENCE NO. E-2201A
 SHEET NO. 22
 ROADWAY DESIGN ENGINEER
 PRELIMINARY PLANS
 IN ACCORDANCE WITH THE
 PERMITTING REGULATIONS OF THE
 STATE OF TEXAS
 PERMIT DRAWING
 SHEET 35 OF 47

METRIC
 CONSTANT
 1" = 40'

URS
 URS CORPORATION
 10000 WEST HIGHTWAY 140
 SUITE 1000
 DALLAS, TEXAS 75243
 PHONE 972.968.8000
 FAX 972.968.8001
 WWW.URS.COM

WETLAND PERMIT
 SITE 11 - SITE 12 - SITE 16
 MATCH LINE STA 68+40.00
 SEE SHEET 21

FILL IN WETLAND
HAND CLEARING

CHAMPION INTERNATIONAL CORP
 DE 887 PG. 408
 MAP NO. 5-10-044
 PREPARED SCOUR SHEET
 SEE DETAIL L

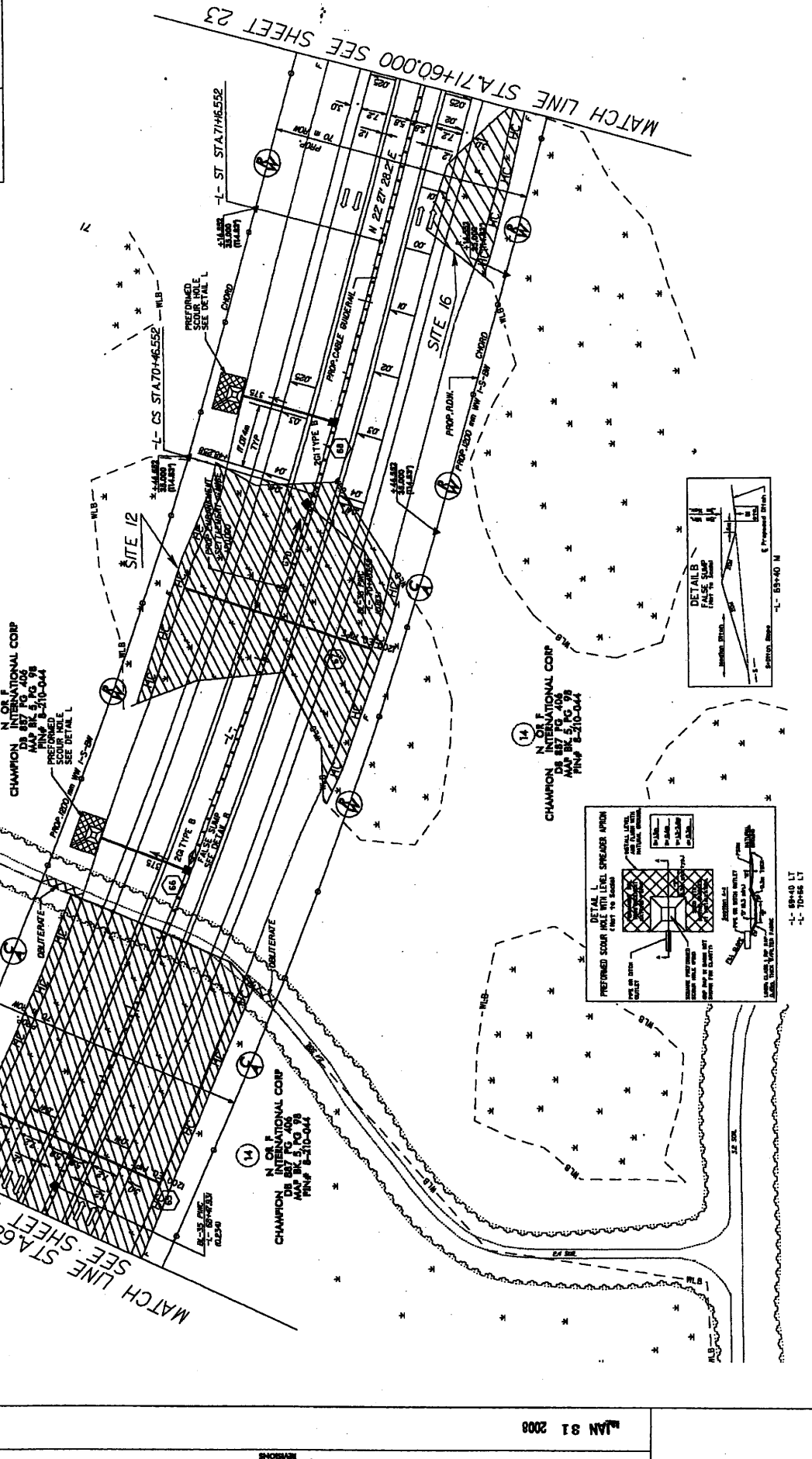
CHAMPION INTERNATIONAL CORP
 DE 887 PG. 408
 MAP NO. 5-10-044
 PREPARED SCOUR SHEET
 SEE DETAIL L

CHAMPION INTERNATIONAL CORP
 DE 887 PG. 408
 MAP NO. 5-10-044
 PREPARED SCOUR SHEET
 SEE DETAIL L

CHAMPION INTERNATIONAL CORP
 DE 887 PG. 408
 MAP NO. 5-10-044
 PREPARED SCOUR SHEET
 SEE DETAIL L

CHAMPION INTERNATIONAL CORP
 DE 887 PG. 408
 MAP NO. 5-10-044
 PREPARED SCOUR SHEET
 SEE DETAIL L

CHAMPION INTERNATIONAL CORP
 DE 887 PG. 408
 MAP NO. 5-10-044
 PREPARED SCOUR SHEET
 SEE DETAIL L

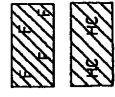


PROJECT REFERENCE NO. SHEET NO.
 R-230A LAW SHEET NO. 22
 ROADWAY DESIGN ENGINEER HYDRAULIC ENGINEER
 PRELIMINARY PLANS FOR THE CONSTRUCTION OF
Permit Drawing Sheet 34 of 47



URS
 CONSULTING ENGINEERS
 10000 North Central Expressway
 Suite 2000 Dallas, Texas 75243
 (972) 961-6100
 www.urscorp.com

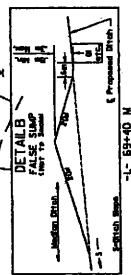
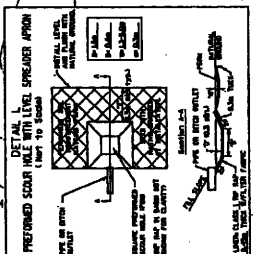
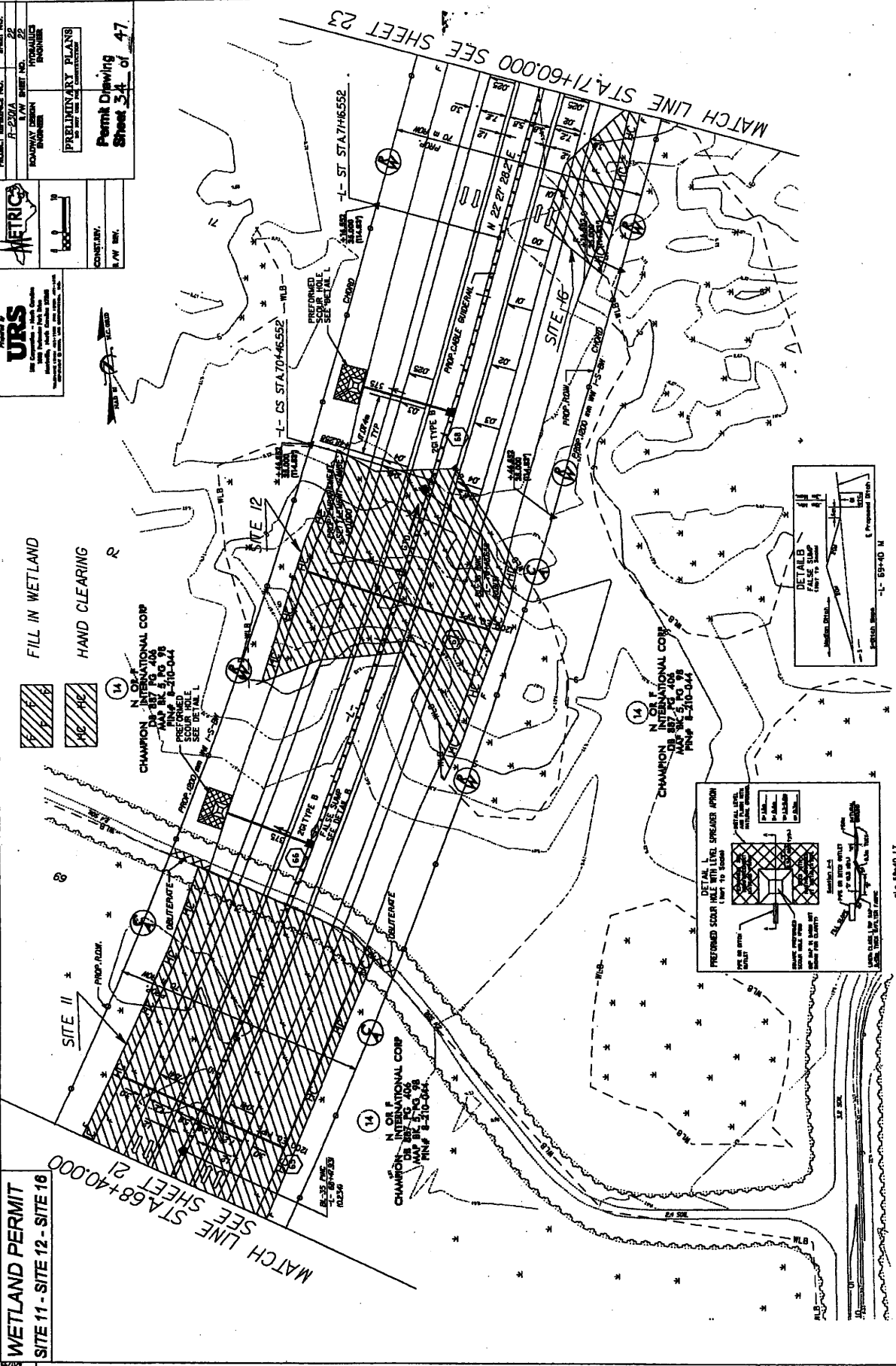
FILL IN WETLAND
 HAND CLEARING



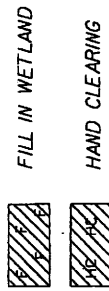
WETLAND PERMIT
 SITE 11 - SITE 12 - SITE 16

MATCH LINE STA 68+40.00
 SEE SHEET 21

MATCH LINE STA 71+60.00
 SEE SHEET 23



WETLAND PERMIT
SITE 18



14
N OR F
CHAMPION INTERNATIONAL CORP
DB 887 PG 404
MAP BK 5, PG 98
PIN# B-210-044

73

72

MATCH LINE STA. 71+60.00 SEE SHEET 22

MATCH LINE STA. 73+60.00 SEE SHEET 24

NOTE: FOR -L- PROFILE SEE SHEET 52

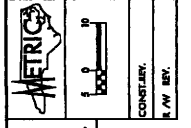


CH

| | |
|--|----------------------|
| PROJECT REFERENCE NO. 0-2201A | SHEET NO. 23 |
| ROADWAY DESIGN BORNEO | 1/4" SHEET NO. 23 |
| PRELIMINARY PLANS FOR PERMITTING PURPOSES | |
| Permit Drawing Sheet 3.5 of 47 | |
| CONTRACT NO. | DATE |
| BY | REV. |



| | |
|--|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| A-230A | 23 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS FOR THE USE OF CONSTRUCTION | |
| Permit Drawing Sheet 23 of 47 | |



CONSTANT
SCALE

NOTE: FOR "L" PROFILE SEE SHEET 52

CH

NOTE: FOR "L" PROFILE SEE SHEET 52

NOTE: FOR "L" PROFILE SEE SHEET 52

NOTE: FOR "L" PROFILE SEE SHEET 52

NOTE: FOR "L" PROFILE SEE SHEET 52

NOTE: FOR "L" PROFILE SEE SHEET 52

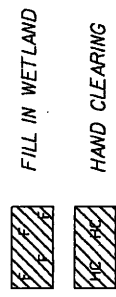
NOTE: FOR "L" PROFILE SEE SHEET 52

MATCH LINE STA. 73+60.00 SEE SHEET 24

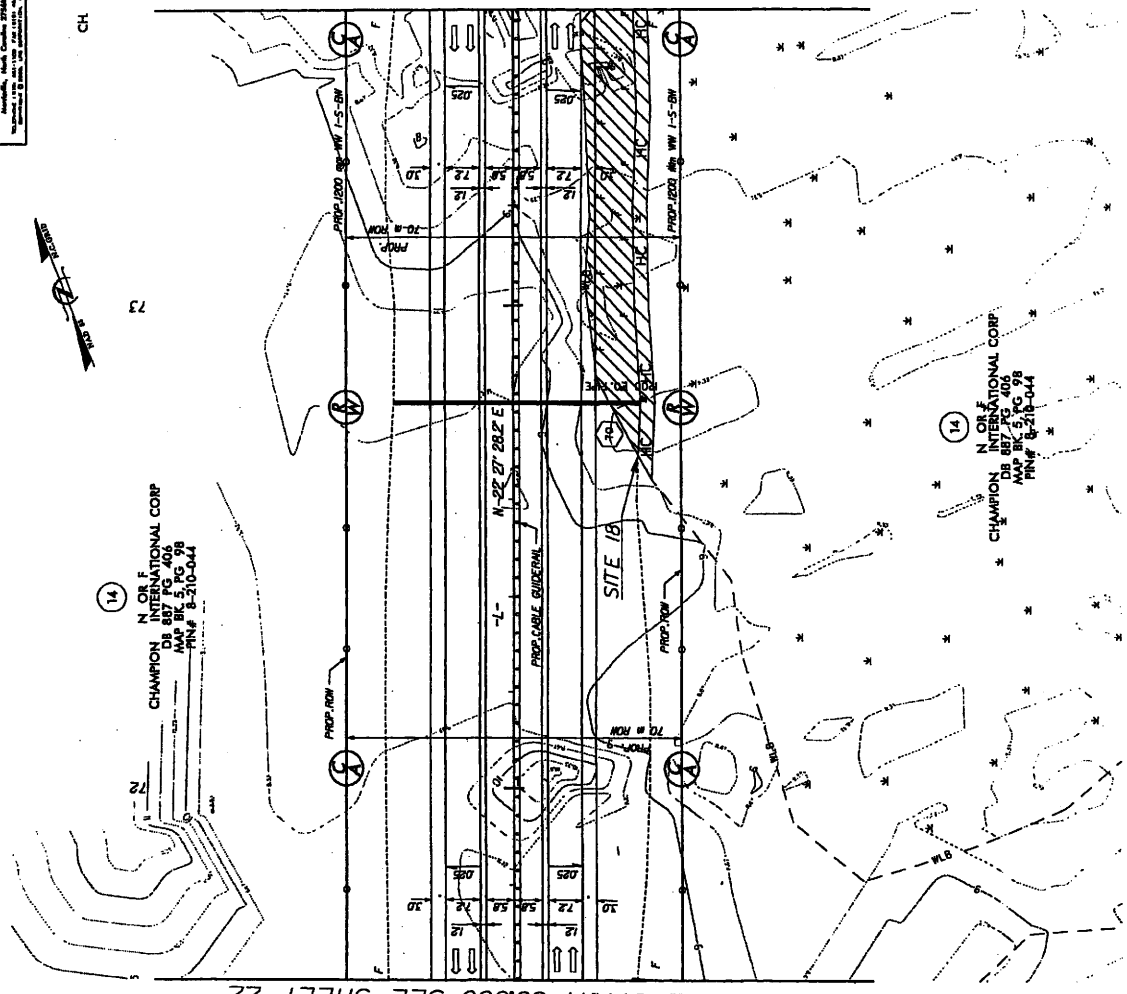
MATCH LINE STA. 71+60.00 SEE SHEET 22

14
N ON F
CHAMPION
INTERNATIONAL CORP
DB 887 PG 406
MAP BC 5, PG 98
PIN# 8-210-044

14
N ON F
CHAMPION
INTERNATIONAL CORP
DB 887 PG 406
MAP BC 5, PG 98
PIN# 8-210-044



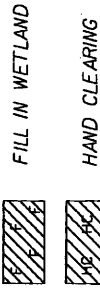
WETLAND PERMIT
SITE 18



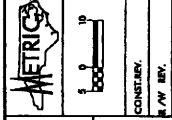
**WETLAND PERMIT
SITE 18**

(14)
N. O. F.
CHAMPION INTERNATIONAL CORP
DB 887 PG. 406
MAP BK 5, PG 98
PIN# 8-310-044

NOTE: FOR 'L' PROFILE SEE SHEET 32



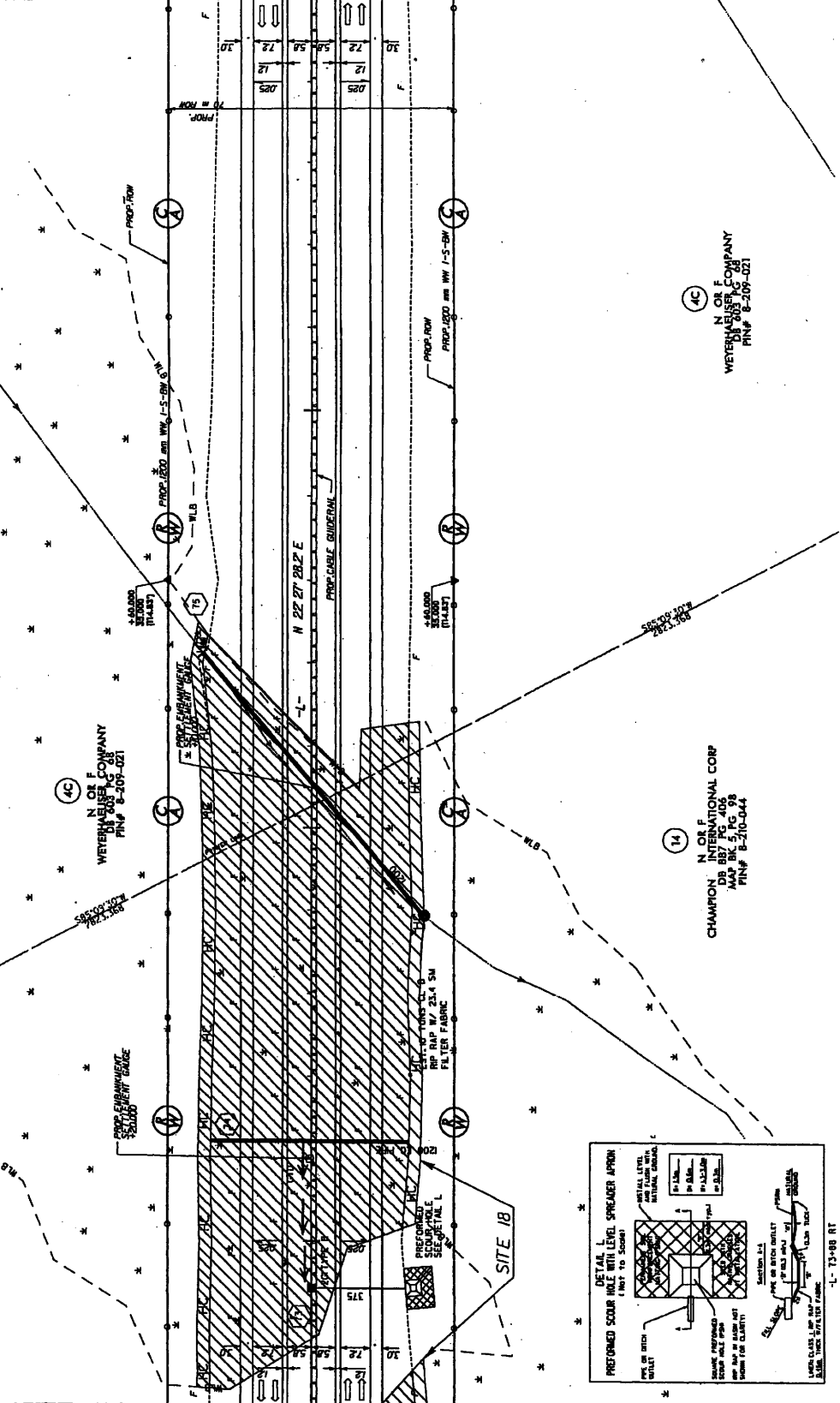
URS
URSP
UNIVERSITY OF CALIFORNIA
SAN DIEGO



| | |
|---|-----------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2204 | 24 |
| DATE | DESIGNED BY |
| | ENGINEER |
| | PROJECT MANAGER |
| PRELIMINARY PLANS NO. 1007, DATE OF CONSTRUCTION | |
| Permit Drawing Sheet 37 of 47 | |
| CONSTRUCTION S/W REV. | |

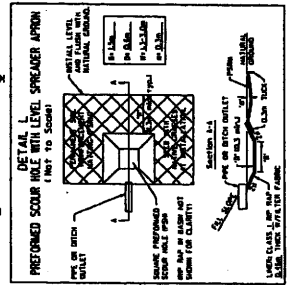
MATCH LINE STA.73+60.00 SEE SHEET 23

MATCH LINE STA.77+00.00 SEE SHEET 25



(4C)
N. O. F.
WETERNHUBER COMPANY
DB 887 PG. 408
MAP BK 5, PG 98
PIN# 8-309-021

(14)
N. O. F.
CHAMPION INTERNATIONAL CORP
DB 887 PG. 406
MAP BK 5, PG 98
PIN# 8-310-044



DATE: JAN 31 2005
DRAWN: STANLEY-DR AND CONSTRUCTION EASEMENT.
REVISIONS

MATCH LINE STA.77+00.00 SEE SHEET 25

URS
 CONSULTING ENGINEERS
 10000 North Central Expressway
 Suite 200
 Dallas, Texas 75243-2000
 PHONE: 972-343-7000
 FAX: 972-343-7001

METRIC
 CONSULTING ENGINEERS
 10000 North Central Expressway
 Suite 200
 Dallas, Texas 75243-2000
 PHONE: 972-343-7000
 FAX: 972-343-7001

PROJECT REFERENCE NO. R-230A
 SHEET NO. 24
 R/W SHEET NO. 24
 HYDRAULICS ENGINEER

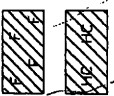
PRELIMINARY PLANS
 TO BE USED FOR PERMITTING
Permit Drawing
Sheet 38 of 47

CONSTR. REV.
 R/W REV.

NOTE FOR -L- PROFILE SEE SHEET 24

FILL IN WETLAND

HAND CLEARING



WETLAND PERMIT
SITE 18

(14)
 N OR F
 CHAMPION INTERNATIONAL CORP
 MAP BY P.C. 08
 JAN 87 P.C. 08
 PIN# 8-210-044

URS
 CONSULTING ENGINEERS
 10000 North Central Expressway
 Suite 200
 Dallas, Texas 75243-2000
 PHONE: 972-343-7000
 FAX: 972-343-7001

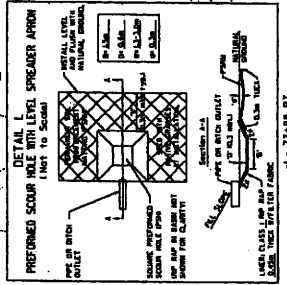
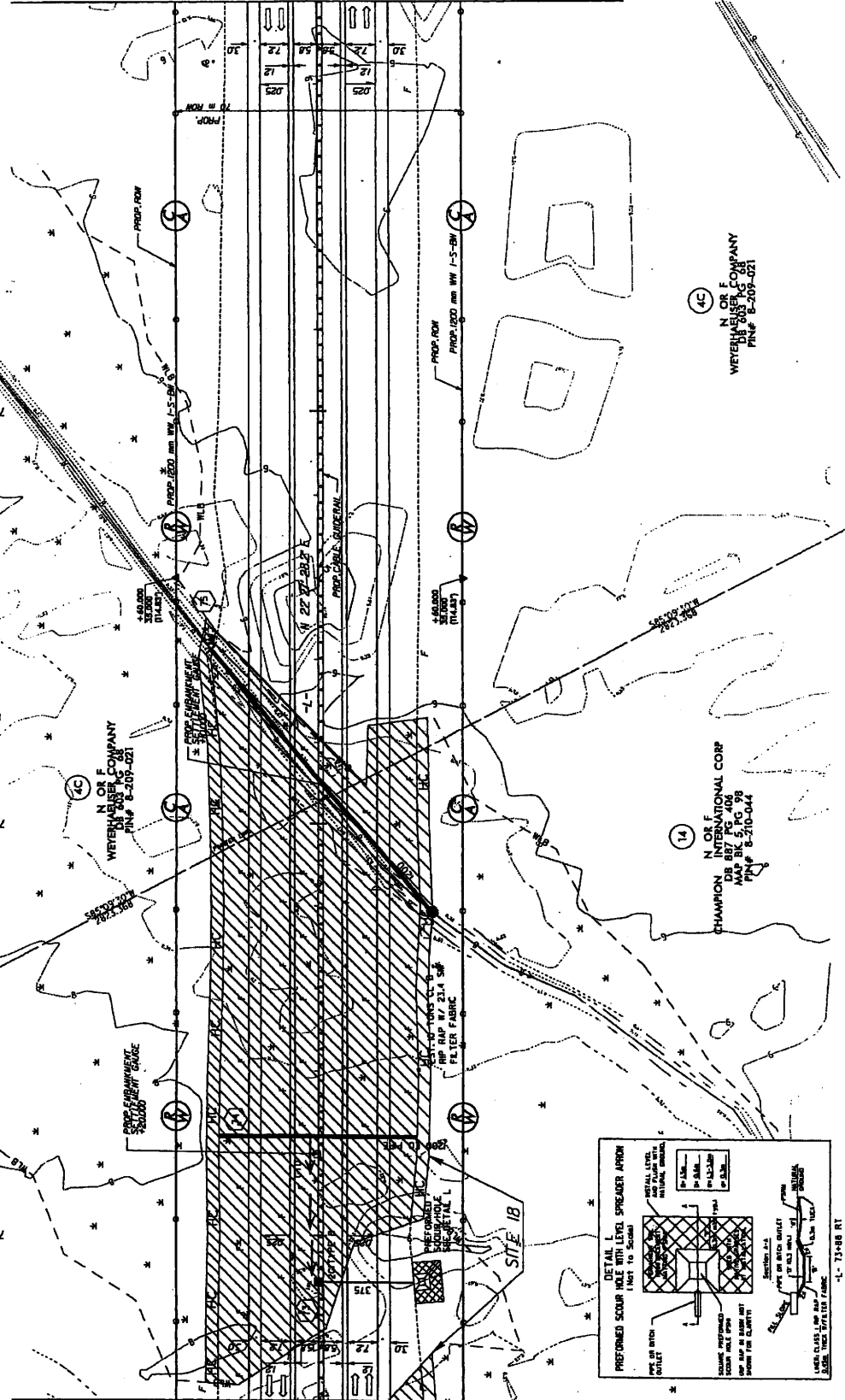
METRIC
 CONSULTING ENGINEERS
 10000 North Central Expressway
 Suite 200
 Dallas, Texas 75243-2000
 PHONE: 972-343-7000
 FAX: 972-343-7001

PROJECT REFERENCE NO. R-230A
 SHEET NO. 24
 R/W SHEET NO. 24
 HYDRAULICS ENGINEER

PRELIMINARY PLANS
 TO BE USED FOR PERMITTING
Permit Drawing
Sheet 38 of 47

CONSTR. REV.
 R/W REV.

MATCH LINE STA.73+60.00 SEE SHEET 23



(14)
 N OR F
 CHAMPION INTERNATIONAL CORP
 MAP BY P.C. 08
 JAN 87 P.C. 08
 PIN# 8-210-044

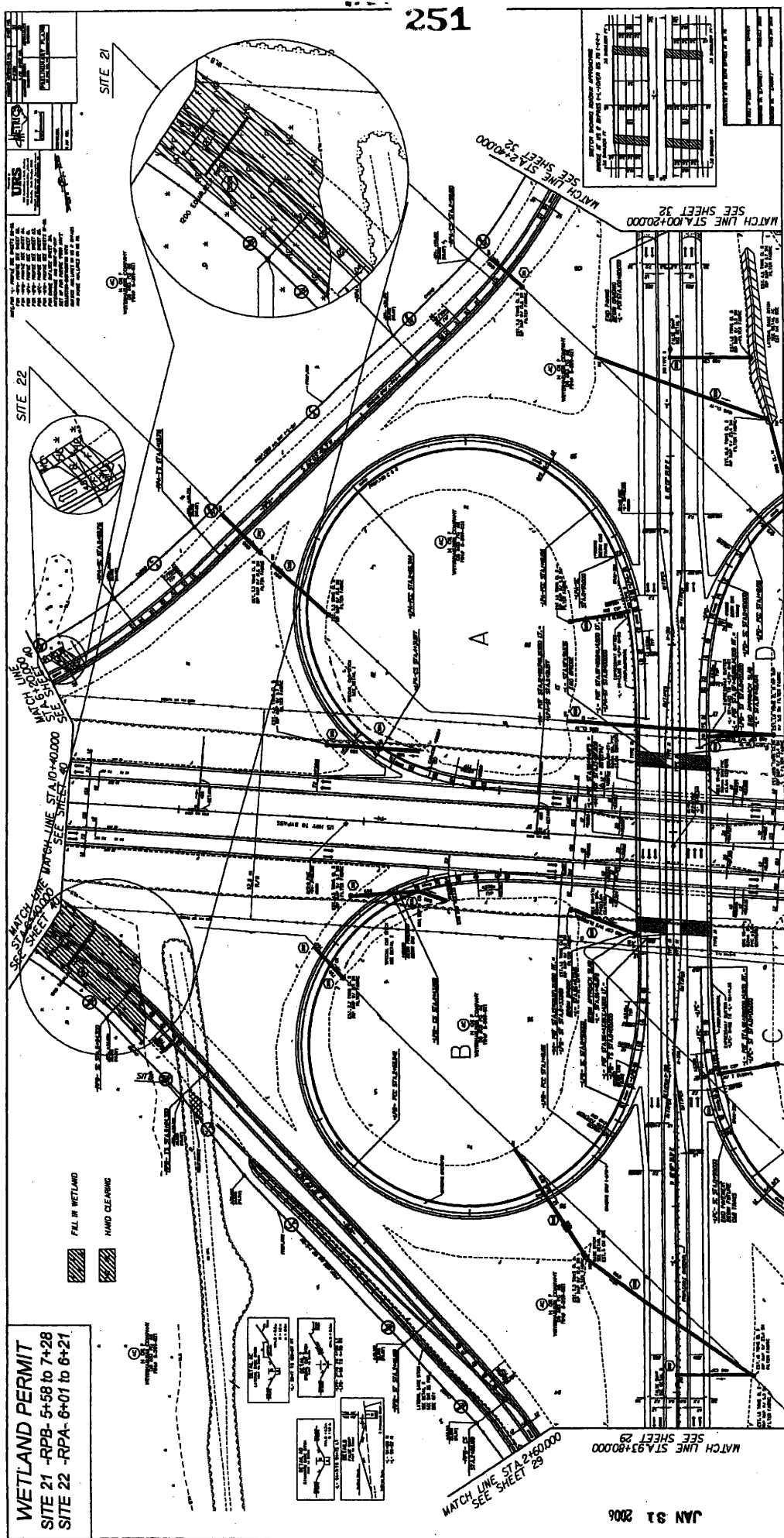
(4C)
 N OR F
 WEYERHAEUSER COMPANY
 MAP BY P.C. 08
 JAN 87 P.C. 08
 PIN# 8-209-021

REVISIONS

DATE: _____ EUMINATED - DR - AND CONSTRUCTION EASEMENT.

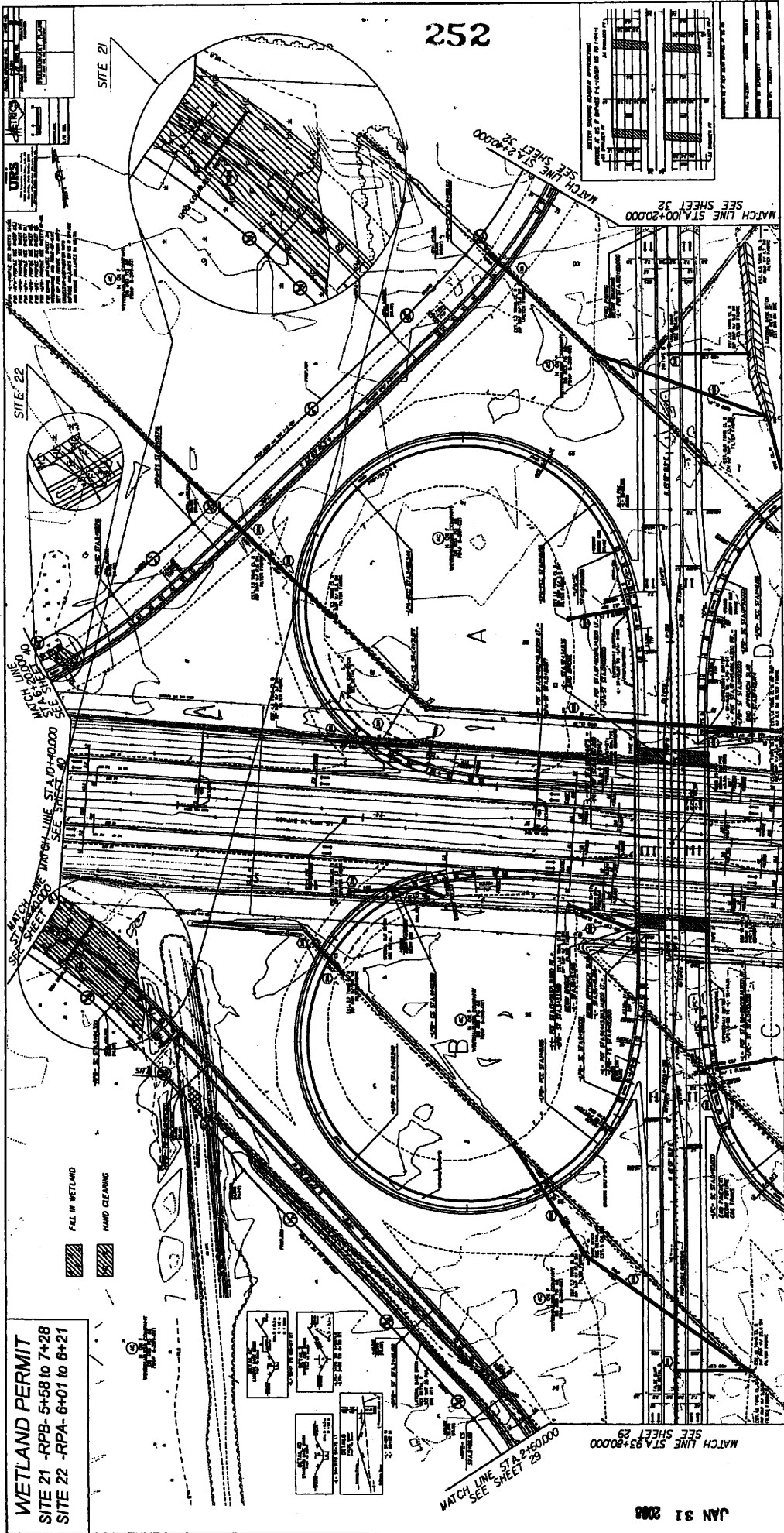
JAN 21 2000

-L- 73-88 RT



WETLAND PERMIT
SITE 21 -RPB- 5+58 to 7+28
SITE 22 -RPA- 6+01 to 6+21

FILL IN WETLAND
HAND CLEARING



WETLAND PERMIT
SITE 21 - RPB- 5+58 to 7+28
SITE 22 - RPA- 6+01 to 6+21

| | | | |
|-------------------------|------------------------------|-----------|----|
| PROJECT REFERENCE NO. | 7-2370A | SHEET NO. | 37 |
| ROADWAY DESIGN ENGINEER | PRELIMINARY PLANS | | |
| PERMIT DRAWING | Sheet A1 of 47 | | |

CONTRACT NO. 0000000000

DATE: 01/21/06

NOTE: FOR -Y1- PROFILE SEE SHEET 70

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

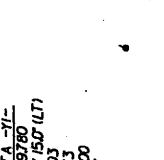
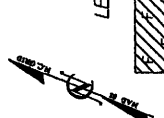
WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

LEGEND

FILL IN WETLAND

HAND CLEARING



CURVE DATA -Y1-
 P.I. = 22+787.80
 Δ = 16 20' 15.0" (LT)
 L = 255.203
 T = 128.473
 R = 895.000
 SE = 3.4%

CURVE DATA -Y1-
 P.I. = 20+22.30
 Δ = 0 39' 21.7" (LT)
 L = 80.003
 T = 40.007
 R = 6590.000
 SE = NC

CURVE DATA -Y1-
 P.I. = 21+52.30
 Δ = 0 39' 21.7" (LT)
 L = 80.003
 T = 40.007
 R = 6590.000
 SE = NC

CURVE DATA -Y1-
 P.I. = 21+52.30
 Δ = 0 39' 21.7" (LT)
 L = 80.003
 T = 40.007
 R = 6590.000
 SE = NC

CURVE DATA -Y1-
 P.I. = 21+52.30
 Δ = 0 39' 21.7" (LT)
 L = 80.003
 T = 40.007
 R = 6590.000
 SE = NC

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

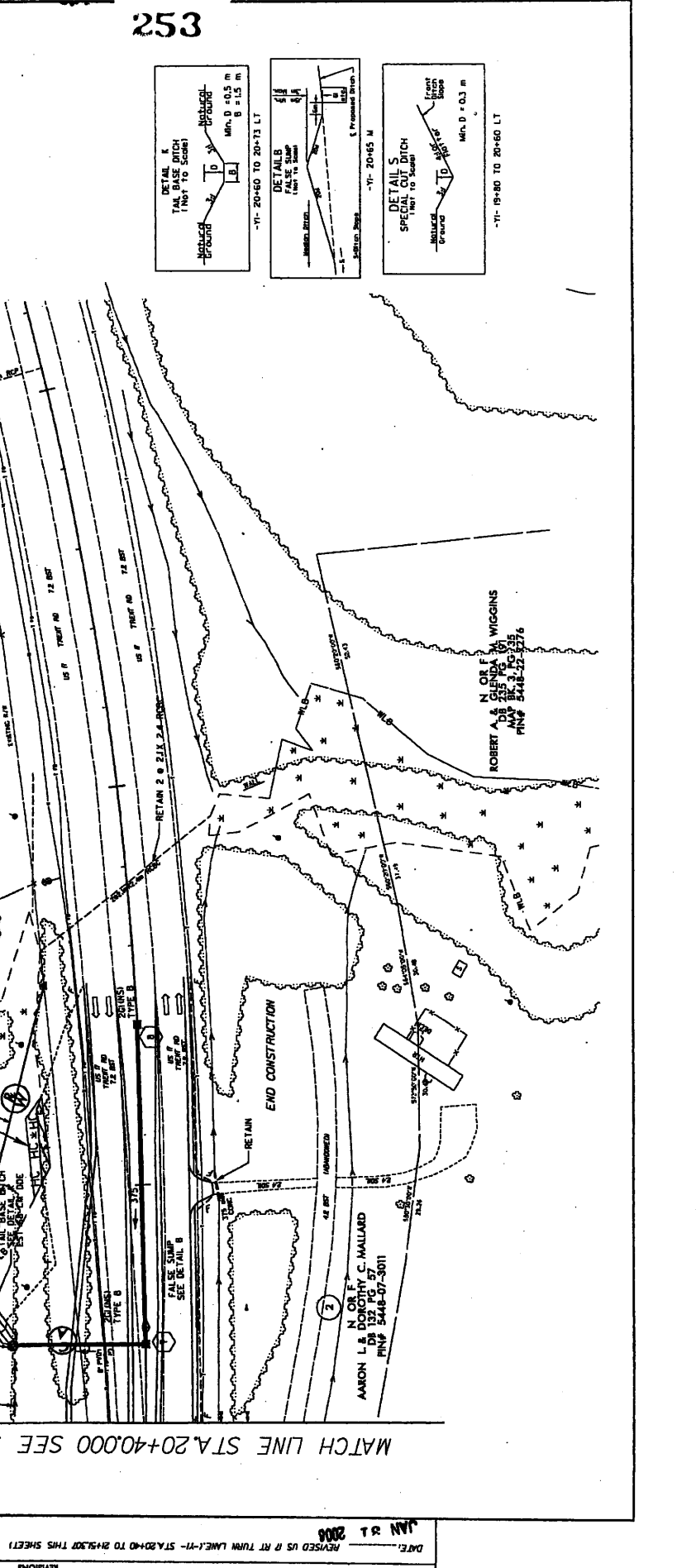
WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23

WETLAND PERMIT
SITE 1C
-Y1- 20+96 to 21+23



PROJECT REFERENCE NO. R-2307A
 SHEET NO. 7
 ROADWAY DESIGN ENGINEER
 PRELIMINARY PLANS
 TO BE USED FOR PERMITTING PURPOSES ONLY
Permit Drawing
Sheet 4 of 47

METRICS
 1" = 100'
 1" = 30.48 M

URS
 URS CONSULTANTS INC.
 1000 Peachtree Street, N.E.
 Atlanta, Georgia 30309
 PHONE 404.521.4000
 FAX 404.521.4001
 WWW.URS-CORP.COM

NOTE: FOR -Y1- PROFILE SEE SHEET 70

WETLAND PERMIT
SITE 1C
-Y1-20+06 to 21+23

CURVE DATA -Y1-
 P.I. = 22479780
 Δ = 16 20' 15.0" (LT)
 L = 255.203
 T = 288.473
 R = 895.000
 SE = 3.4%

CURVE DATA -Y1-
 P.I. = 21717915
 Δ = 0 39' 21.7" (LT)
 L = 60.003
 T = 40.907
 R = 6390.000
 SE = NC

CURVE DATA -Y1-
 P.I. = 21142400
 Δ = 2 56' 31.0"
 L = 90.000
 T = 33.945
 R = 200.000
 SE = 33.4%

CURVE DATA -Y1-
 P.I. = 21142400
 Δ = 2 56' 31.0"
 L = 90.000
 T = 33.945
 R = 200.000
 SE = 33.4%

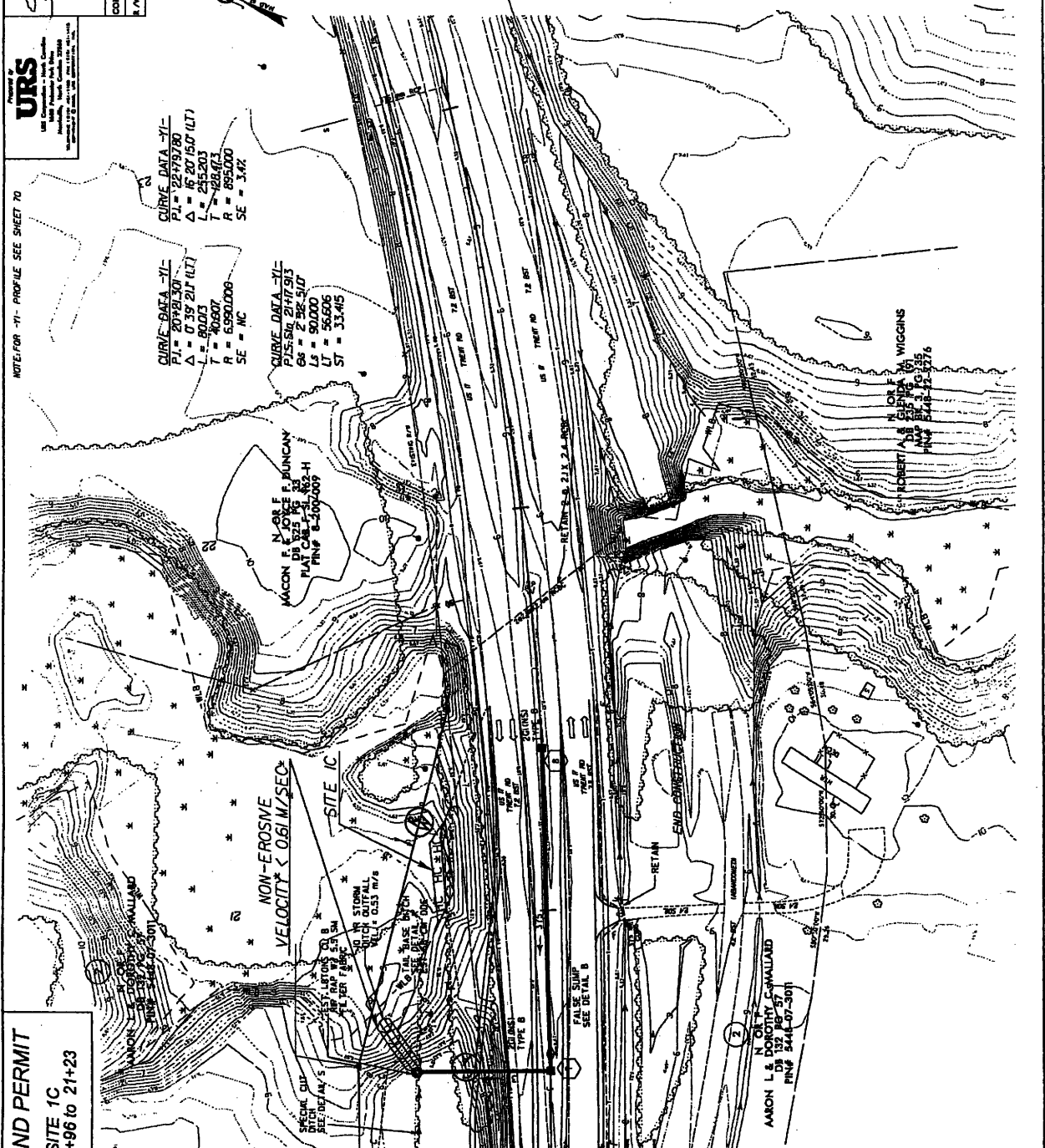
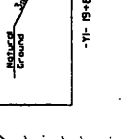
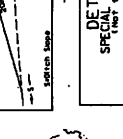
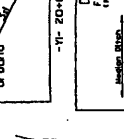
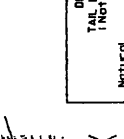
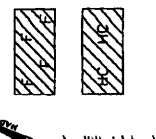
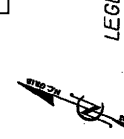
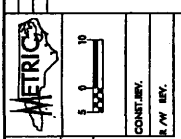
CURVE DATA -Y1-
 P.I. = 21142400
 Δ = 2 56' 31.0"
 L = 90.000
 T = 33.945
 R = 200.000
 SE = 33.4%

CURVE DATA -Y1-
 P.I. = 21142400
 Δ = 2 56' 31.0"
 L = 90.000
 T = 33.945
 R = 200.000
 SE = 33.4%

CURVE DATA -Y1-
 P.I. = 21142400
 Δ = 2 56' 31.0"
 L = 90.000
 T = 33.945
 R = 200.000
 SE = 33.4%

CURVE DATA -Y1-
 P.I. = 21142400
 Δ = 2 56' 31.0"
 L = 90.000
 T = 33.945
 R = 200.000
 SE = 33.4%

CURVE DATA -Y1-
 P.I. = 21142400
 Δ = 2 56' 31.0"
 L = 90.000
 T = 33.945
 R = 200.000
 SE = 33.4%



MATCH LINE STA. 20+40.00 SEE SHEET 4

DATE: REVISED BY RT TURN LANE 1-Y1- STA. 20+40 TO 21+307 THIS SHEET)
 REVISIONS

PLAN 81 2005

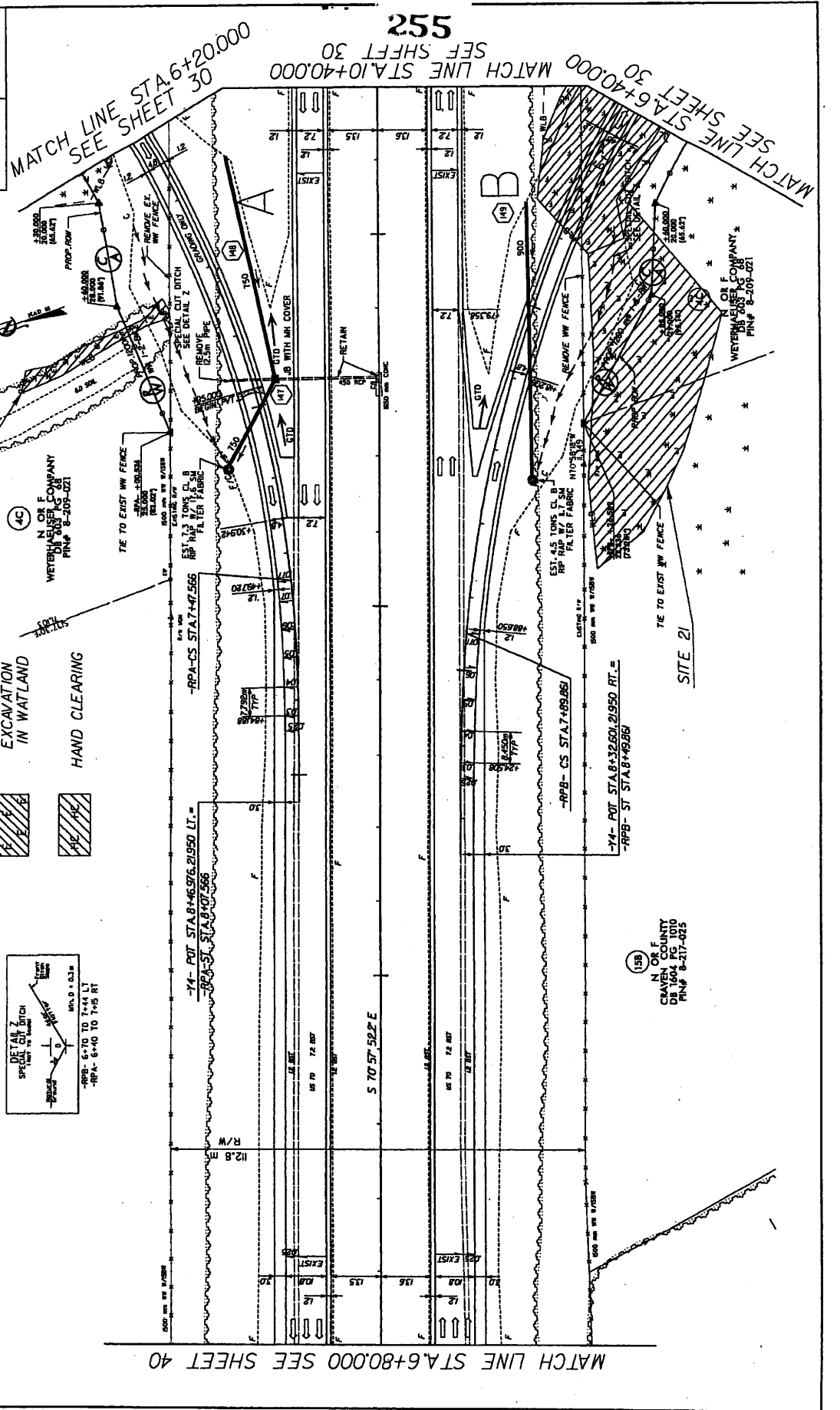
PROJECT REFERENCE NO. **P-2307A**
 SHEET NO. **47**
 PRELIMINARY PLANS
 Permit Drawing
 Sheet 47 of 47

URS
 URS CORPORATION
 2000 L Street, Suite 200
 Emeryville, CA 94608
 (925) 769-7000
 FAX (925) 769-7001
 WWW.URS-CORP.COM

METRICS
 METRICS ENGINEERS
 1000 Broadway, Suite 1000
 San Francisco, CA 94133
 (415) 774-2000
 FAX (415) 774-2001
 WWW.METRICS-ENGINEERS.COM

CONTRACT NO. **100000020+9+40.000**
 COUNTY: **CLATSOP**
 R/W BY: **100000020+9+40.000**

WETLAND PERMIT
 SITE 21 -RPB- 5+58 to 7+28
 SITE 23 -RPA- 6+59 to 6+69



ENCLOSURE
 PLAN 91 2008

PROJECT REFERENCE NO. **LA 210**
 ROADWAY DESIGN ENGINEER

SHEET NO. **4**
 HYDRAULICS ENGINEER

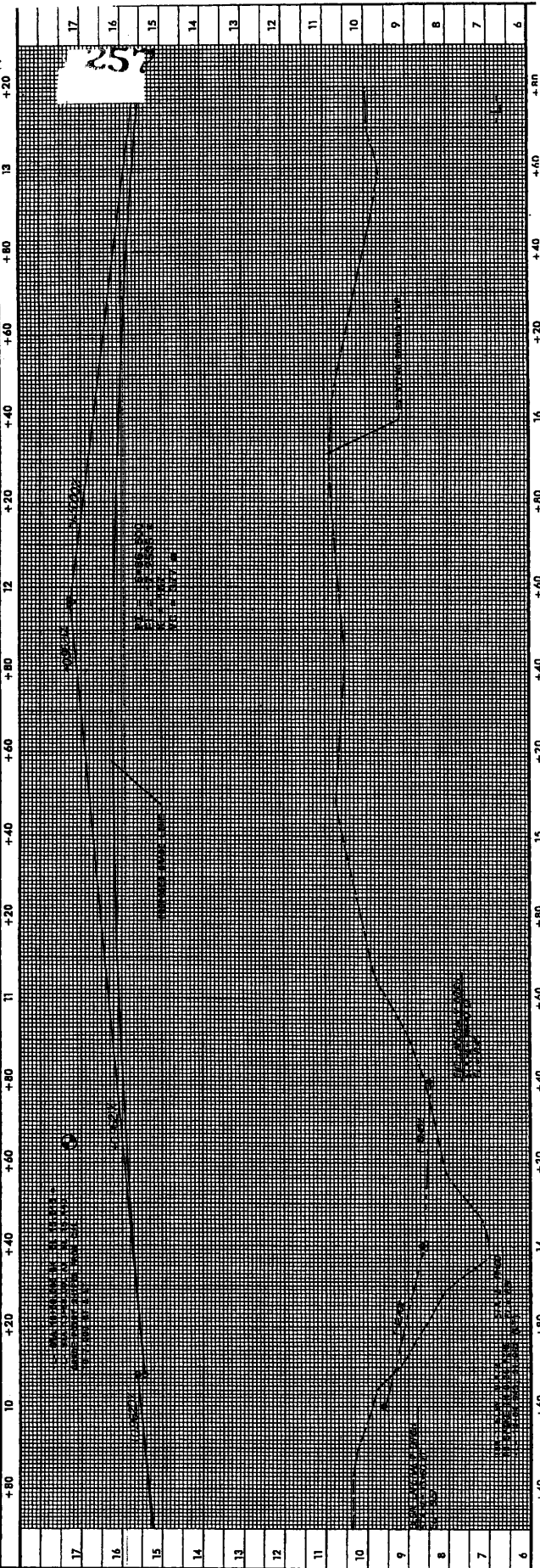
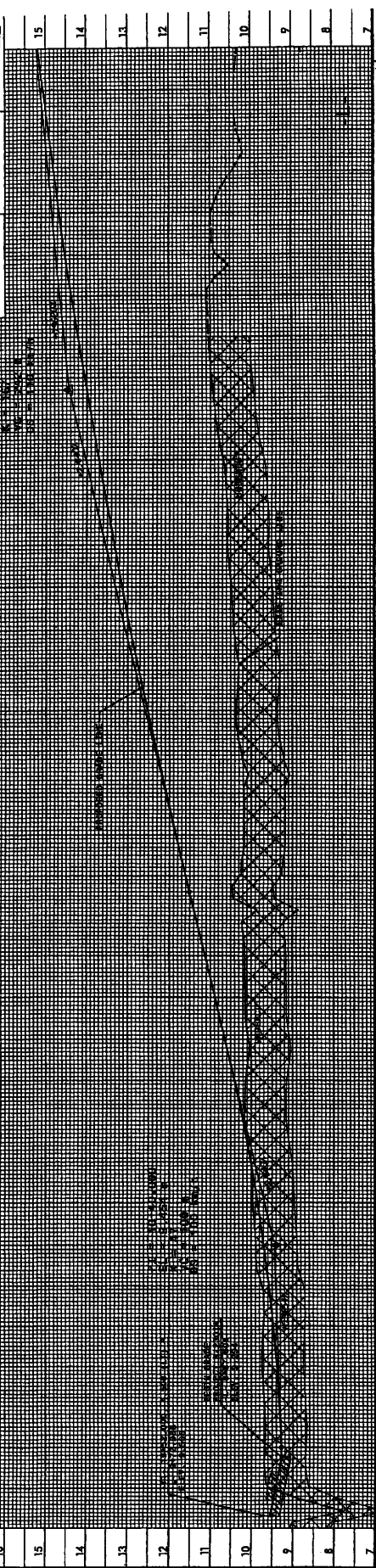
PRELIMINARY PLANS
 PERMIT DRAWING
 Sheet **45** of **47**

URS
 URS Corporation - Park Center
 1000 Park Center Drive
 Irvine, CA 92618-1697
 Telephone: (949) 222-0600
 Fax: (949) 222-0601

METRIC

0.5' = 1' (VERT.)
 1" = 100' (HORIZ.)

DATE: **11/11/03**
 DRAWN BY: **AW/REV.**



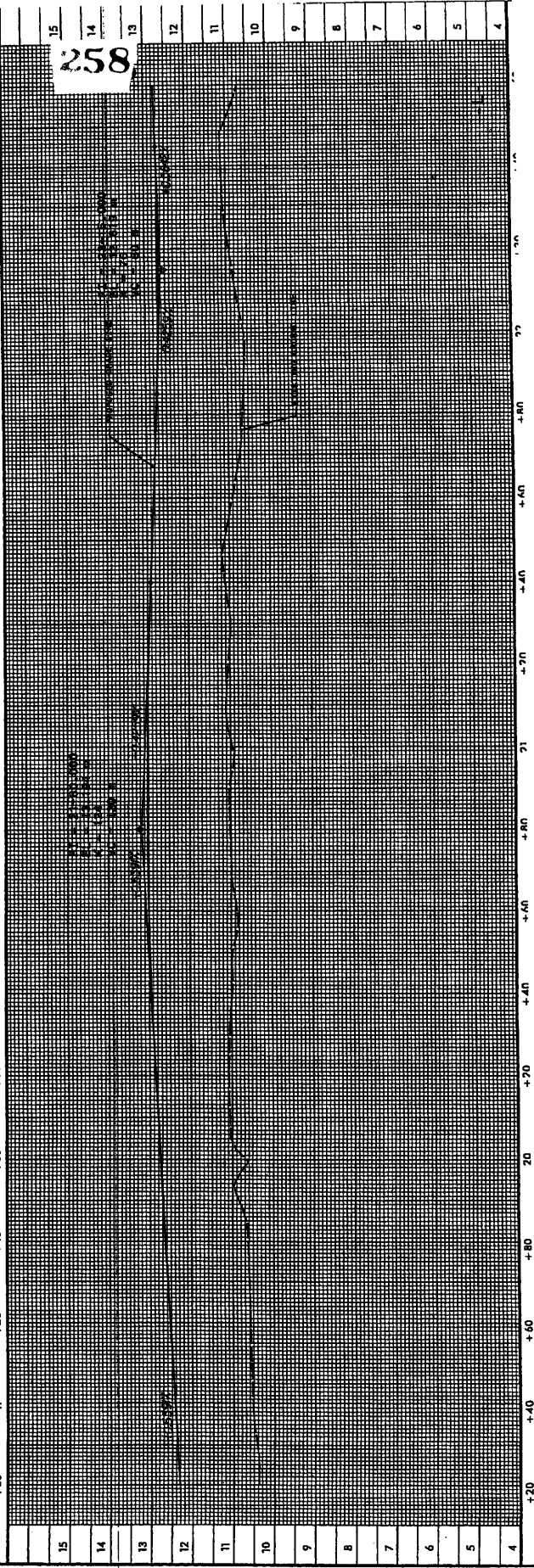
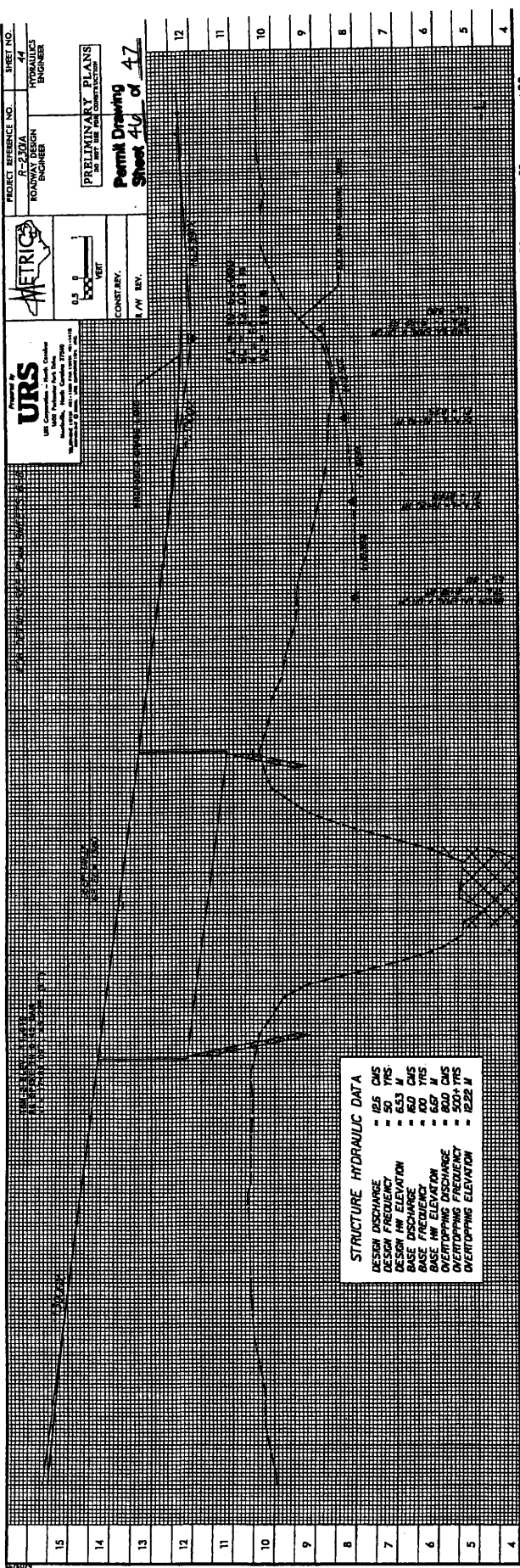
JAN 31 2004

PROJECT REFERENCE NO. SHEET NO.
 R-237A 44
 ROADWAY DESIGN HYDRAULICS
 ENGINEER

METRIC
 0.5 0
 VERT.
 1 M BY 1 M

URS
 URS Corporation, Inc. Chicago
 100 North Dearborn Street, Suite 2000
 Chicago, IL 60610-3992
 URS Corporation, Inc. Dallas
 1000 Ross Avenue, Suite 2000
 Dallas, TX 75202-3992

PRELIMINARY PLANS
 FOR THE
Permit Drawing
Sheet 40 of 47



PROJECT REFERENCE NO. R-2307A
 ENGINEER
 METRICS

PRELIMINARY PLANS
 NOT TO BE USED FOR CONSTRUCTION

Permit Drawing
 Sheet 47 of 47

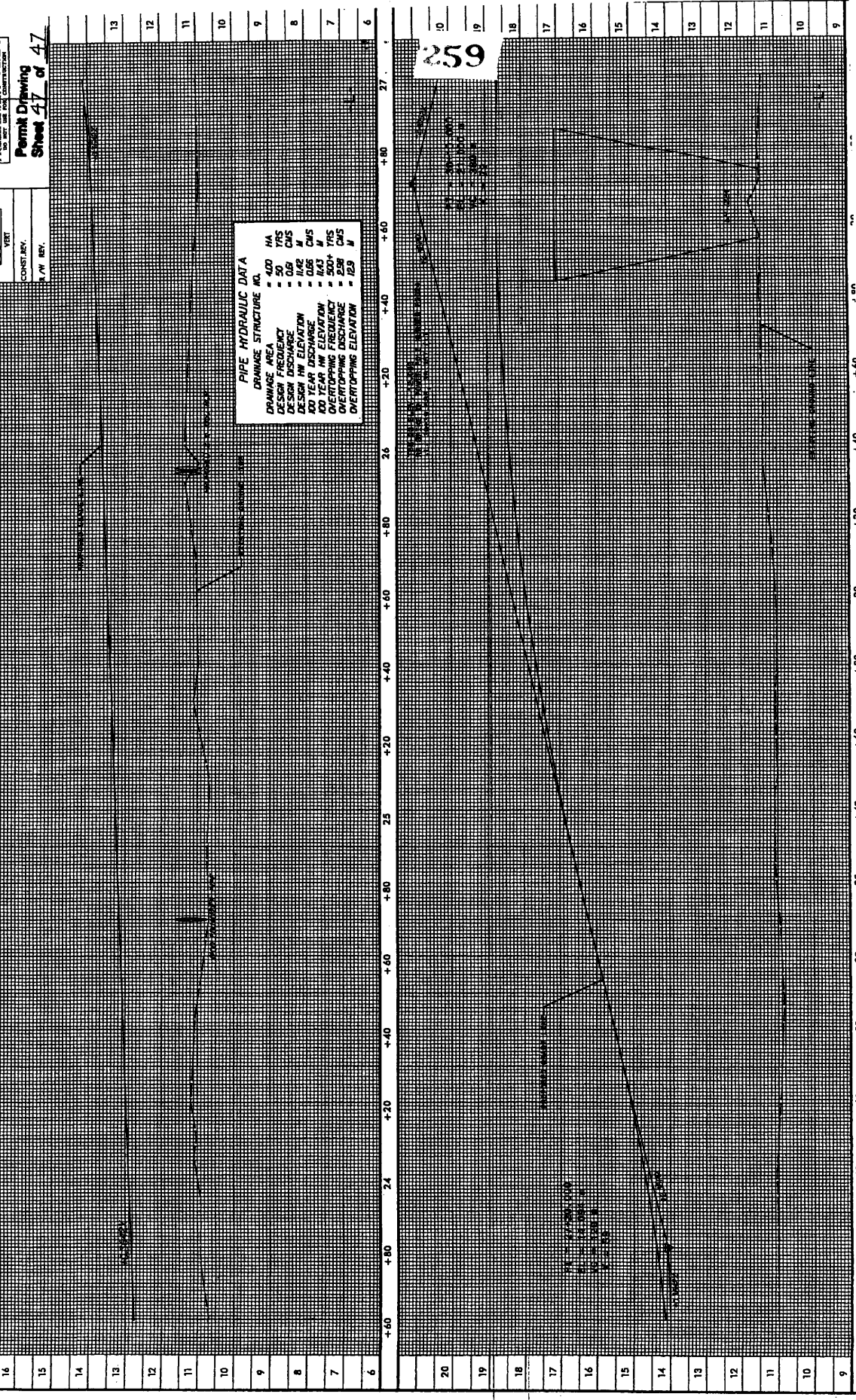
0.0
 100.0 FT
 1:100

CONSTRY.
 N. W. REV.

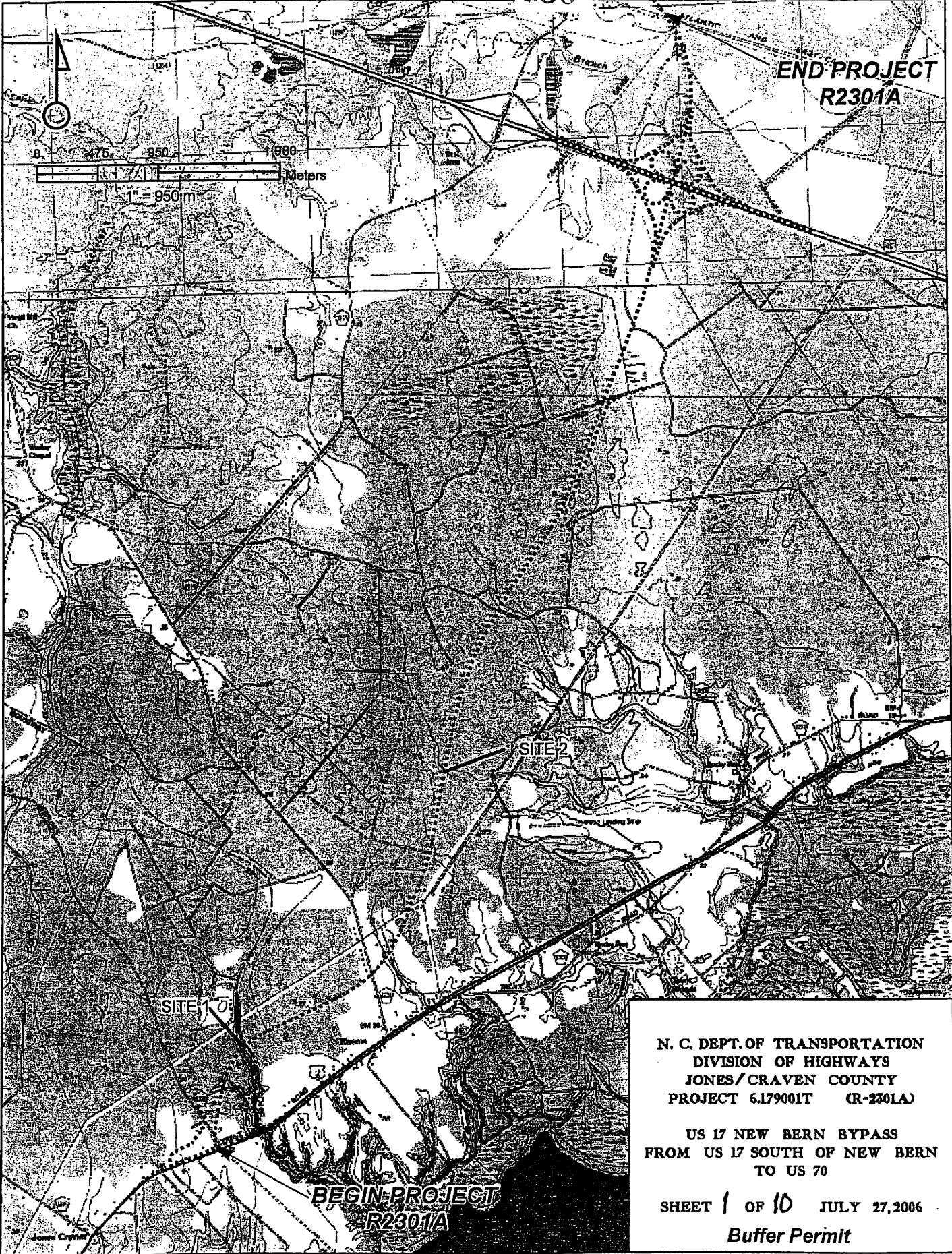
Presented by
URS
 1800 Pennsylvania Ave. N.W.
 Washington, D.C. 20006
 (202) 775-1000

SHET NO. 47
 ENGINEER

PIPE HYDRAULIC DATA
 DRAINAGE STRUCTURE NO. HA
 DRAINAGE AREA - 4.00 YRS
 DESIGN FREQUENCY - 50 YRS
 DESIGN DISCHARGE - 0.69 CMS
 DESIGN HW ELEVATION - 10.62 M
 100 YEAR DISCHARGE - 1.43 M
 DESIGN FREQUENCY - 500+ YRS
 OVERTOPPING DISCHARGE - 2.98 CMS
 OVERTOPPING ELEVATION - 12.9 M



END PROJECT
R2301A



N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
JONES / CRAVEN COUNTY
PROJECT 6.179001T (R-2301A)

US 17 NEW BERN BYPASS
FROM US 17 SOUTH OF NEW BERN
TO US 70

SHEET 1 OF 10 JULY 27, 2006

Buffer Permit

BUFFER IMPACTS SUMMARY

| SITE NO. | STRUCTURE SIZE / TYPE | STATION (FROM/TO) | TYPE | | | IMPACT | | | | MITIGABLE | | | BUFFER REPLACEMENT | | |
|---------------|-----------------------|--------------------|---------------|--------|-----------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------------|--|--|
| | | | ROAD CROSSING | BRIDGE | PARALLEL IMPACT | ZONE 1 (ft²) | ZONE 2 (ft²) | TOTAL (ft²) | ZONE 1 (ft²) | ZONE 2 (ft²) | TOTAL (ft²) | ZONE 1 (ft²) | ZONE 2 (ft²) | | |
| 1* | Pipe Culvert | -L- 13+60 to 14+39 | X | | | | | | | | 21400 | 15018 | 36418 | | |
| 2 | Bridge | -L- 17+72 | | X | | | 104 | | | 104 | | | | | |
| 2 | Bridge | -L- 18+70 | X | | | | 47 | | | 47 | | | | | |
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| | | | | | | | | | | | | | | | |
| TOTAL: | | | | | | 0 | 151 | 151 | | 21400 | 15018 | 36418 | | | |

1739 SF of buffer impacts in Zone 1 are accounted for as wetland impacts
762 SF of buffer impacts in Zone 2 are accounted for as wetland impacts

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
CRAVEN COUNTY
PROJECT: 6.179001T (R-2301A)

6/13/2008
SHEET 5 OF 5

Buffer Drawing
Sheet 2A of 10

BUFFER IMPACTS SUMMARY

| SITE NO. | STRUCTURE SIZE / TYPE | STATION (FROM/TO) | IMPACT | | | | | | BUFFER REPLACEMENT | | | | |
|---------------|-----------------------|--------------------|---------------|--------|-----------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--|
| | | | TYPE | | ALLOWABLE | | MITIGABLE | | TOTAL (m ²) | ZONE 1 (m ²) | ZONE 2 (m ²) | | |
| | | | ROAD CROSSING | BRIDGE | PARALLEL IMPACT | ZONE 1 (m ²) | ZONE 2 (m ²) | ZONE 1 (m ²) | | | | ZONE 2 (m ²) | |
| 1* | Pipe Culvert | -L- 13+60 to 14+39 | X | | | | | | 1988 | 1396 | 3088 | | |
| 2 | Bridge | -L- 17+72 | | X | | | | 10 | | | | | |
| 2 | Bridge | -L- 18+70 | X | | | | | 4 | 4 | | | | |
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| | | | | | | | | | | | | | |
| TOTAL: | | | | | | | | 14 | 14 | 1988 | 1396 | 3088 | |

162 SM of buffer impacts in Zone 1 are accounted for as wetland impacts
 71 SM of buffer impacts in Zone 2 are accounted for as wetland impacts

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CRAVEN COUNTY
 PROJECT: 6.179001T (R-2301A)

6/13/2008
 SHEET 5 OF 5
 Buffer Drawing
 Sheet 2B of 1D

Property Owners

| Parcel Number | Names | Addresses |
|---------------|-------------------------------|-----------|
| 2 | Aaron L. & Dorothy C. Mallard | |
| 3 | Macon F. & Joyce F Duncan | |

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
Buffer Permit
Jones Craven COUNTY
WBS - 34414.1.1 (R-2301A)

SHEET 3 of 10 4/10/2008

| | |
|----------------|-----------------------------|
| PROJECT NUMBER | R-2301A |
| DATE | 1 |
| STATE | N.C. |
| PROJECT NAME | 34414.1, 34414.2, 34414.2.3 |
| SCALE | AS SHOWN |
| DESIGNER | R.W. UTIL. |
| CHECKED BY | Buffer Drawing |
| DATE | SHEET 1 OF 10 |

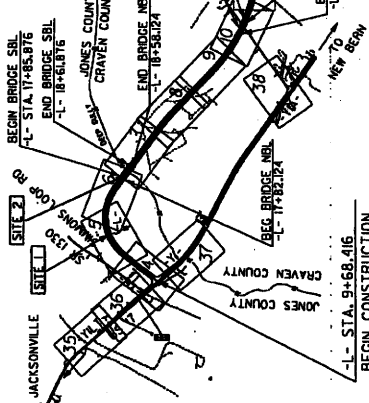
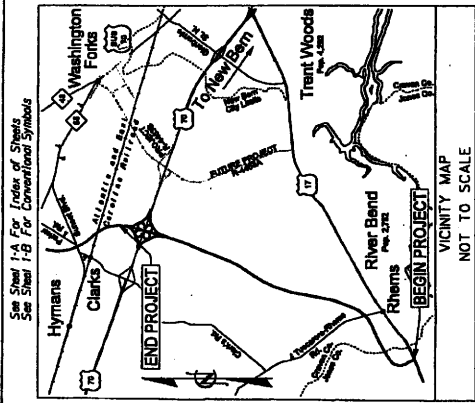
ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE NOTED

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
JONES & CRAVEN COUNTIES

LOCATION: US 17 NEW BERN BYPASS
FROM US 17 SOUTH OF NEW BERN TO US 70

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

BUFFER PERMIT



PREPARED FOR
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, NC
PLANS COORDINATED BY:
Doug Taylor, P.E. - Project Engineer (NCDOT)

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

GRAPHIC SCALES

PLANS
5 0 10
PROFILE (HORIZONTAL)
0.5 0 1
PROFILE (VERTICAL)

DESIGN DATA

ADT 2008 = 23,300
ADT 2028 = 40,300

DIV = 10 %
D = 60 %
T = 12 %
(6% TYP + 6% DUAL)

V = 110 km/h
FUNCTIONAL CLASSIFICATION
RURAL HIGHWAY

PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT SHARES = 1311 KILOMETERS
LENGTH STRUCTURE STATE PROJECT SHARES = 659 KILOMETERS
TOTAL LENGTH STATE PROJECT SHARES = 1970 KILOMETERS
(NBL USED FOR LENGTH CALCULATION)

THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGES

URS
Prepared in the Office of:
URS Corporation - North Carolina
1400 Volunteer Park Drive, Suite 400
Charlotte, NC 28204
Tel: 704.366.7500
Fax: 704.366.1415

PROJECT MANAGER
TIMOTHY H. KEENER, P.E.

PROJECT ENGINEER
JEFFREY A. KOONTZ, P.E.

RIGHT OF WAY DATE
JUNE 30, 2006

LETTING DATE:
NOVEMBER 18, 2008

EXTRADRAINAGE ENGINEER

ROADWAY DESIGN ENGINEER

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

TIP PROJECT: R-2301A

CONTRACT:

PROJECT REFERENCE NO. R-230A
 SHEET NO. 5
 R/W SHEET NO. 5
 HYDRAULICS ENGINEER

PRELIMINARY PLANS
 Buffer Drawing
 Sheet 5 of 10

CONSTR. REV.
 R/W REV.



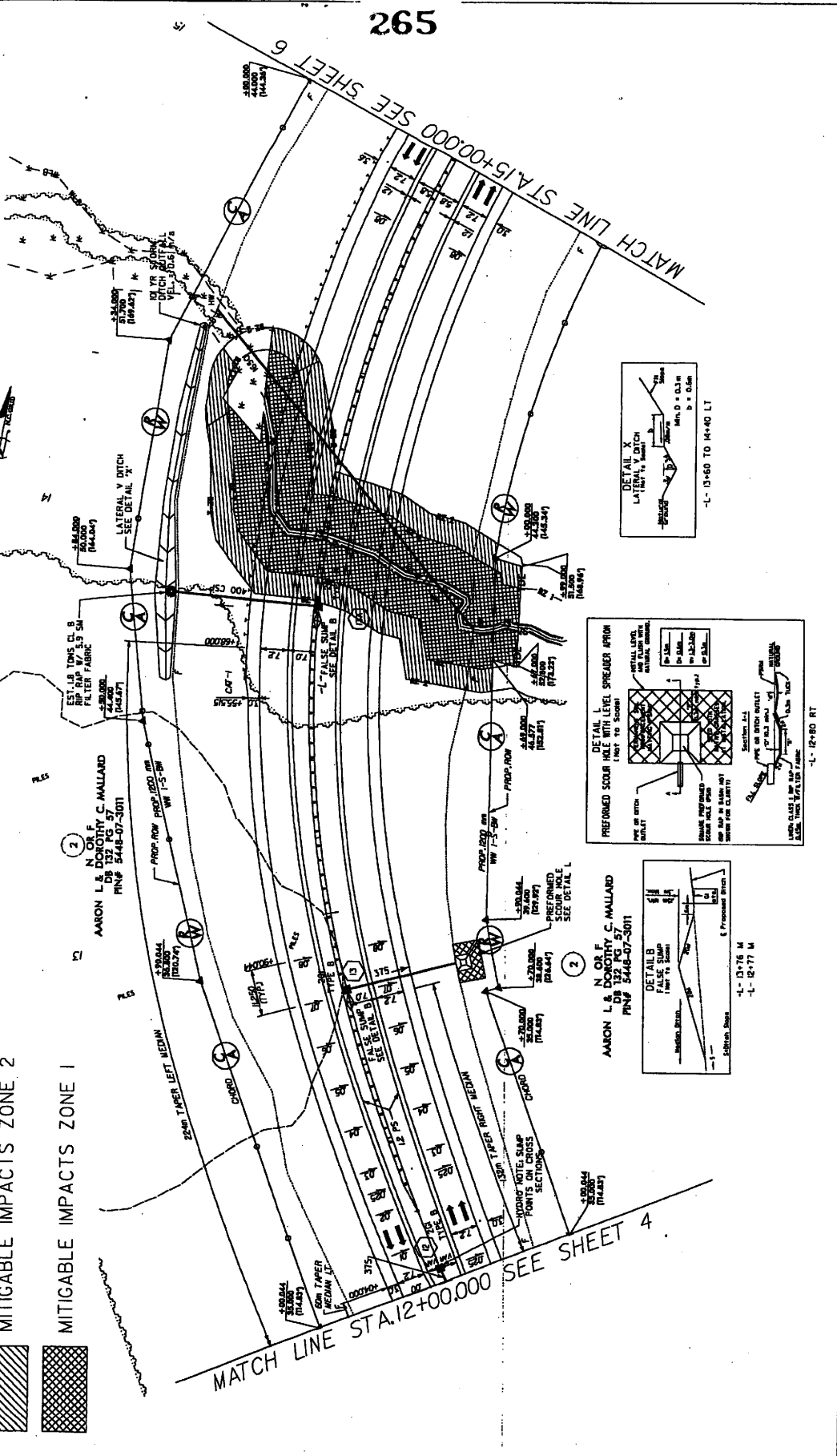
NOTE: FOR "L" PROFILE SEE SHEET 43

BUFFER PERMIT
 SITE 1

LEGEND

MITIGABLE IMPACTS ZONE 2

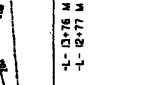
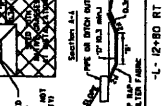
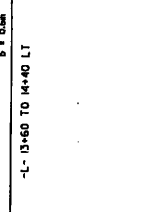
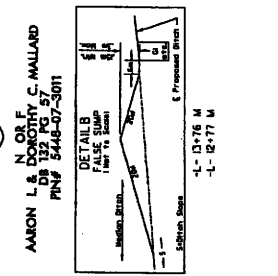
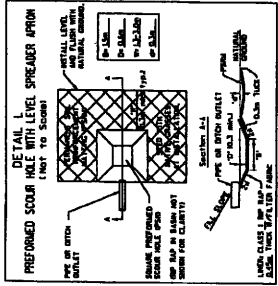
MITIGABLE IMPACTS ZONE 1



265

MATCH LINE STA. 12+00.00 SEE SHEET 4

MATCH LINE STA. 15+00.00 SEE SHEET 6



-L- 12+80 RT

-L- 13+76 M
 -L- 12+77 M

-L- 13+60 TO 14+40 LT

REVISIONS

PROJECT REFERENCE NO. SHEET NO.
 17-2310A SHEET NO. 5
 COUNTRY: CANADA
 SCALE: 1" = 40'

PRELIMINARY PLANS
 Buffer Drawing
 Sheet 6 of 10

URS
 United River Services
 1000 Lakeshore Blvd. East
 Suite 1000, Markham, Ontario L3R 9V7
 Phone: (905) 947-4343
 Fax: (905) 947-4344
 Website: www.urscorp.com

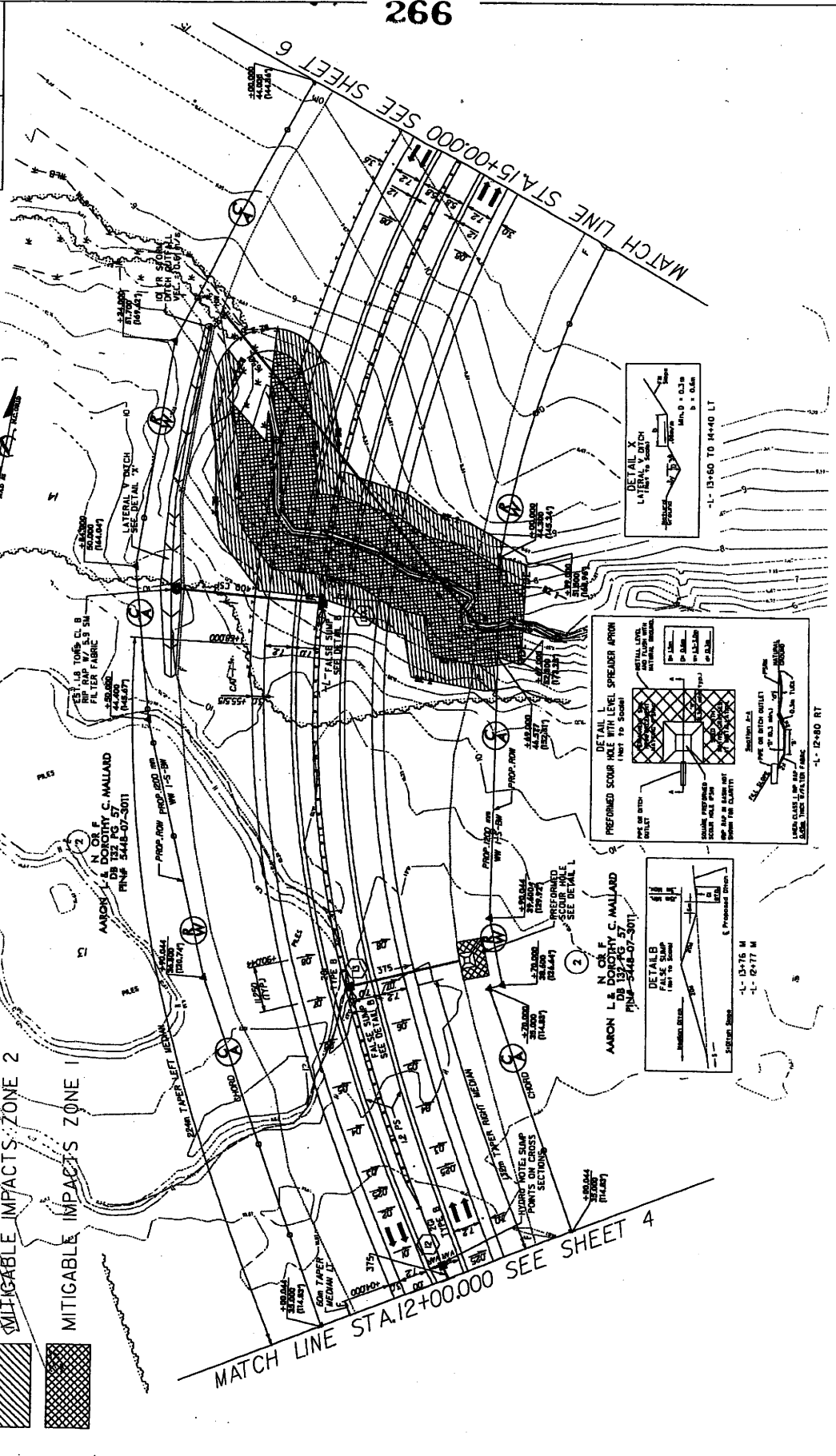
NOTATION -1- PROFILE SEE SHEET 43

LEGEND

MITIGABLE IMPACTS ZONE 2

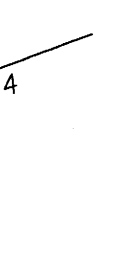
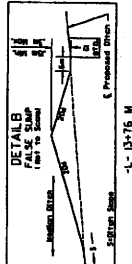
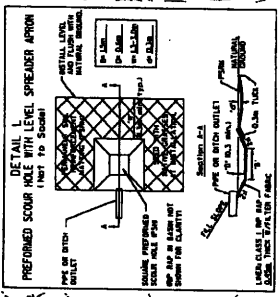
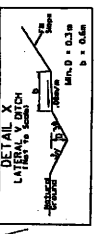
MITIGABLE IMPACTS ZONE 1

BUFFER PERMIT SITE 1



MATCH LINE STA.12+00.00 SEE SHEET 4

MATCH LINE STA.15+00.00 SEE SHEET 6



PROJECT REFERENCE NO. F-2370/A
 SHEET NO. 6
 PRELIMINARY PLANS
Buffer Drawing
 Sheet 7 of 10

UR S
 CONSULTING ENGINEERS
 1430 West 10th Avenue
 Denver, CO 80202
 PHONE: 303.733.7700
 FAX: 303.733.7701
 WWW: www.ursc.com

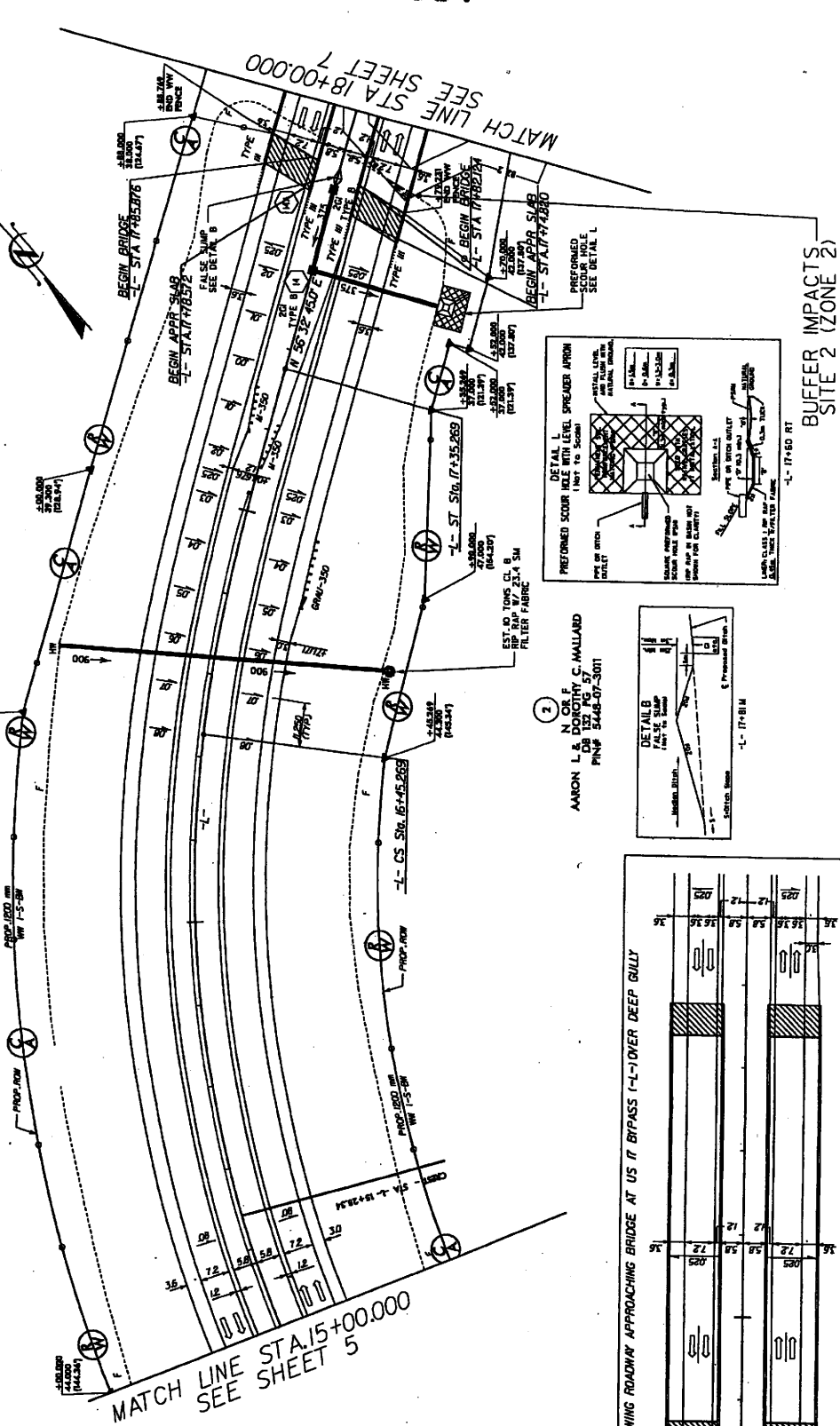
NOTE FOR "L" PROFILE SEE SHEET 43-44

BUFFER PERMIT
 SITE 2

ALLOWABLE IMPACTS ZONE 2

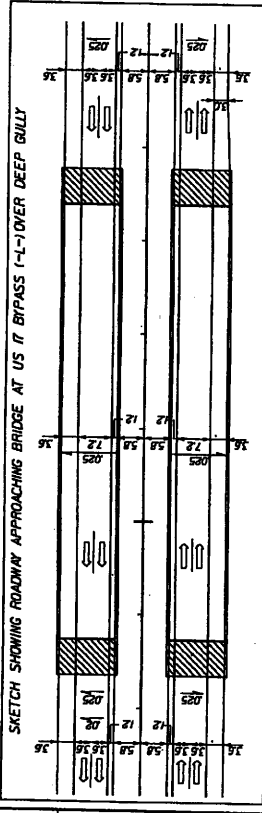
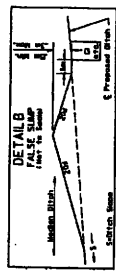
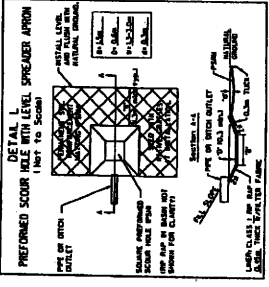
②

N OR F
 L E DOUGLASS C HALLARD
 DR 132 PG 57
 PIN# 5448-07-3011



MATCH LINE STA. 15+00.00
 SEE SHEET 5

MATCH LINE STA 18+00.00
 SEE SHEET 7



②
 BUFFER IMPACTS
 SITE 2 (ZONE 2)
 L- 17+83 RT

②
 AARON L E DOUGLASS C HALLARD
 DR 132 PG 57
 PIN# 5448-07-3011

PROJECT REFERENCE NO. SHEET NO. 6
R-202A L.A.W. SHEET NO. 6
HYDRAULICS ENGINEER
PRELIMINARY PLANS
FOR THE BAYVIEW BRIDGE
Buffer Drawing
Sheet B of 10

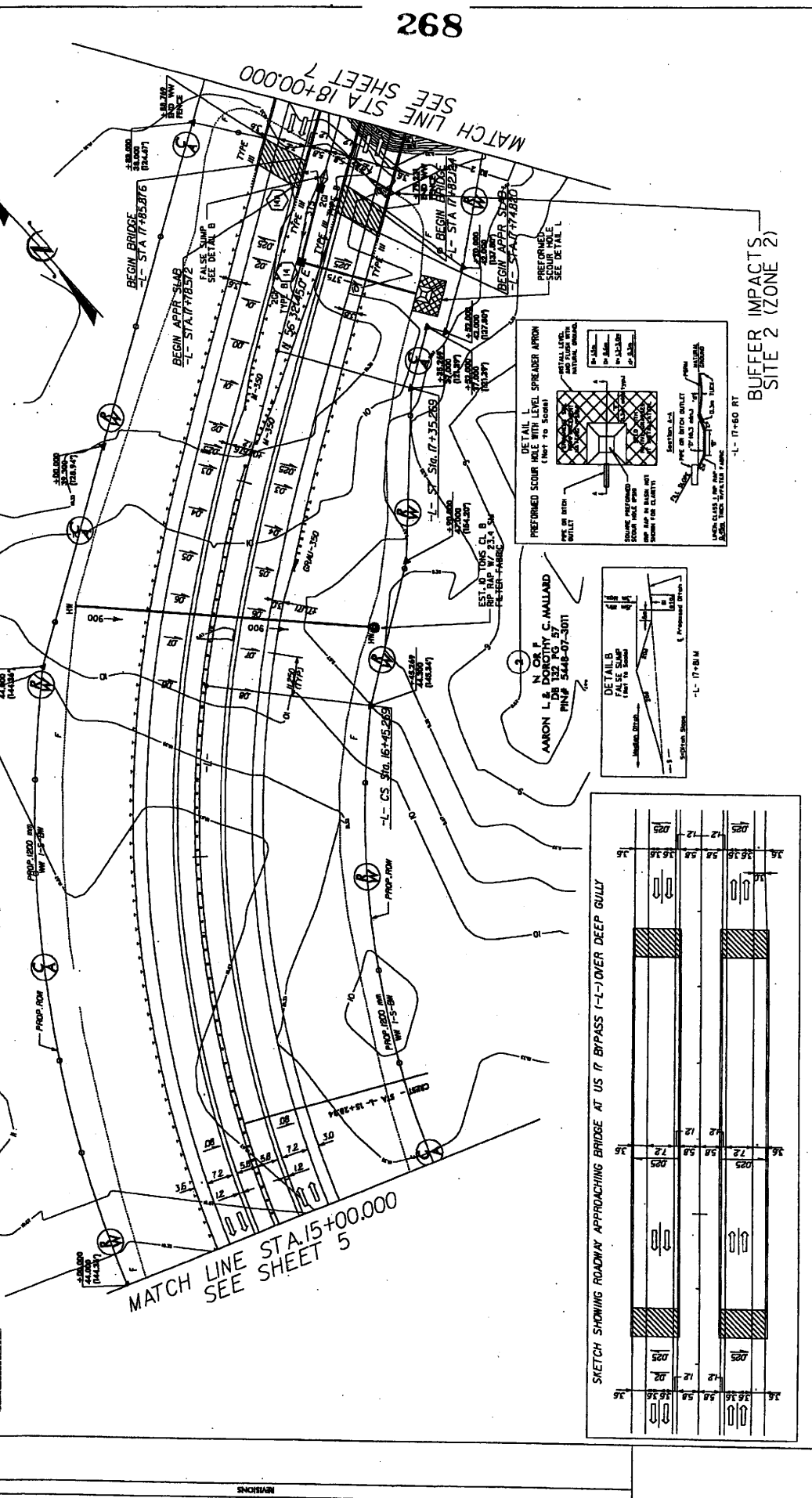
URSI
Presented by
URS
1000 Wilshire Blvd., Suite 1000
Los Angeles, CA 90017
(213) 840-1000
www.urscorp.com

NOTE FOR "L" PROFILE SEE SHEET 43-44

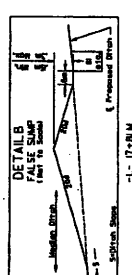
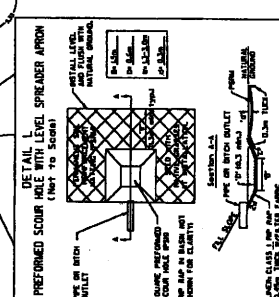
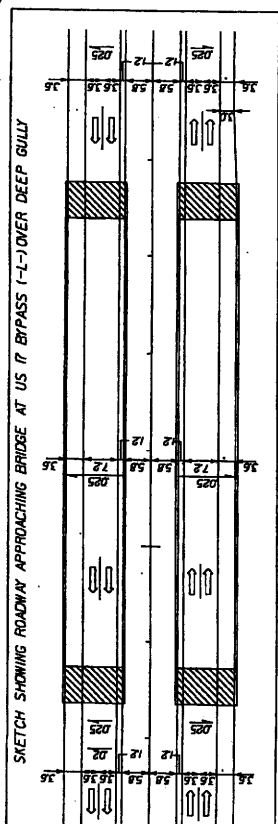
CONTRACT
L.A.W. TRM.

ALLOWABLE IMPACTS ZONE 2
(2)
N OR F
AARON L. & DOROTHY C. MALLARD
ON PG. 57
PIN# 5448-07-3011

BUFFER PERMIT
SITE 2



268



BUFFER IMPACTS
SITE 2 (ZONE 2)

PROJECT REFERENCE NO. SHEET NO.
 R-227A SHEET NO. 7
 ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER

PRELIMINARY PLANS
 Buffer Drawing
 Sheet 9 of 10

CONTRACTOR:
 R.W. BRY



NOTE: FOR "L" PROFILE SEE SHEET #4
 FOR BRIDGE SCHEDULES SEE SHEET #6

MITIGABLE IMPACTS ZONE 2

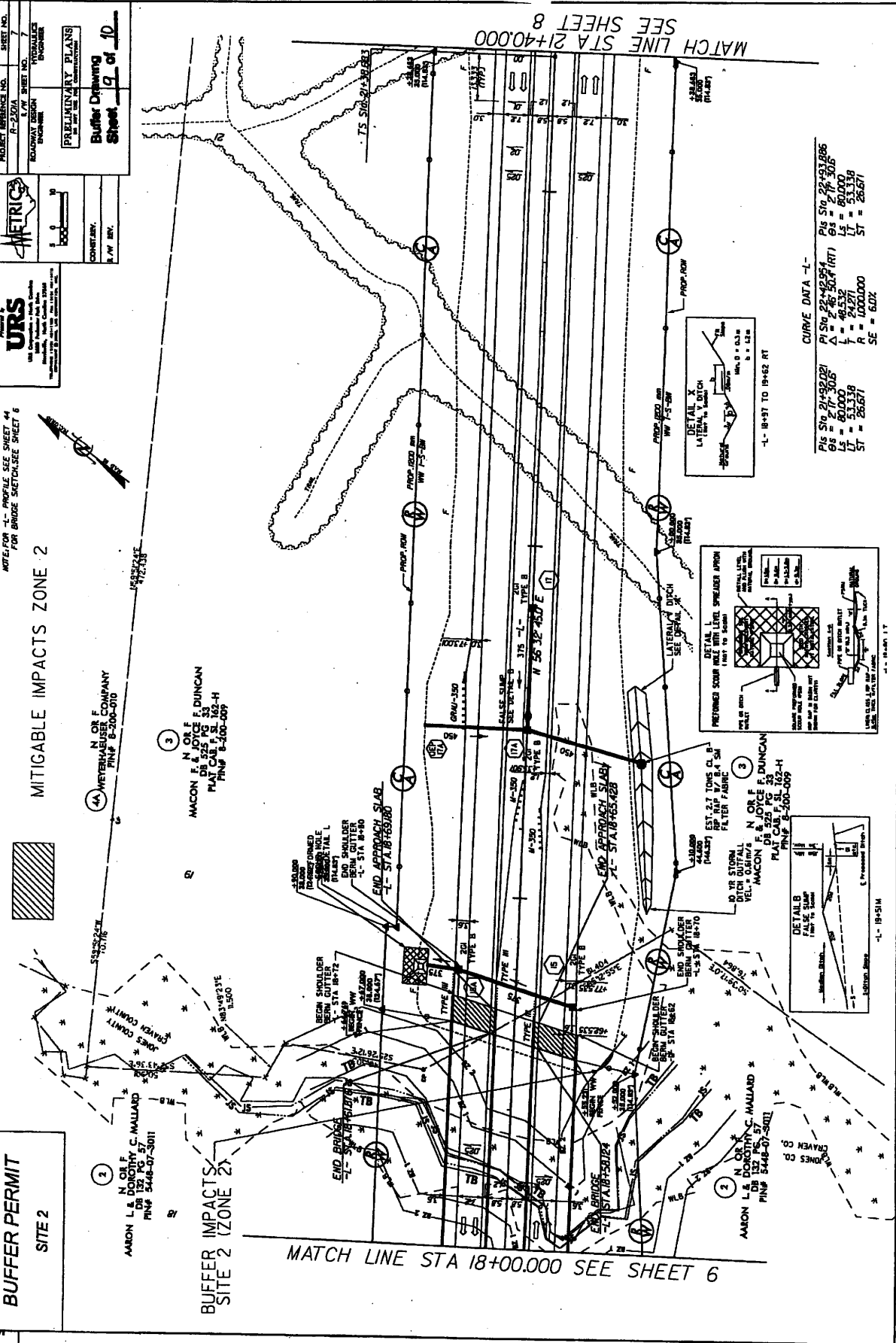
BUFFER PERMIT
 SITE 2

(2)
 N OR F
 AMON L & DOROTHY C. HALLARD
 DB 132 PG. 57
 PINP 5448-07-3011

MITIGABLE IMPACTS
 SITE 2 (ZONE 2)

(3)
 N OR F
 MACON E. N. OR F. DUNCAN
 DB 525 PG. 33
 PLAN CAL. P. S. L. 162-H
 PINP B-200-009

(4A)
 N OR F
 WETTERMEYER COMPANY
 PINP B-200-010

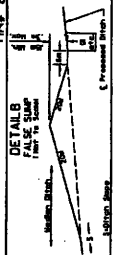
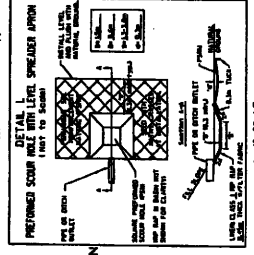


MATCH LINE STA 18+00.00 SEE SHEET 6

MATCH LINE STA 21+40.00
 SEE SHEET 8

CURVE DATA -L-

| | | | |
|--------|----------|--------|----------|
| PI STA | 21+40.00 | PI STA | 21+40.00 |
| CS | 21+40.00 | CS | 21+40.00 |
| L | 40.532 | L | 40.532 |
| LT | 53.338 | LT | 53.338 |
| ST | 26.671 | ST | 26.671 |
| R | 1000.000 | R | 1000.000 |
| SE | 6.02 | SE | 6.02 |



PROJECT REFERENCE NO. SHEET NO.
 R-210A 7
 ROADWAY DESIGN SHEET NO. HYDRAULICS ENGINEER

PRELIMINARY PLANS
 DRAWING NO. 19-51M
Buffer Drawing
Sheet 10 of 10

CONSTRICTION
 R.W. DIV.

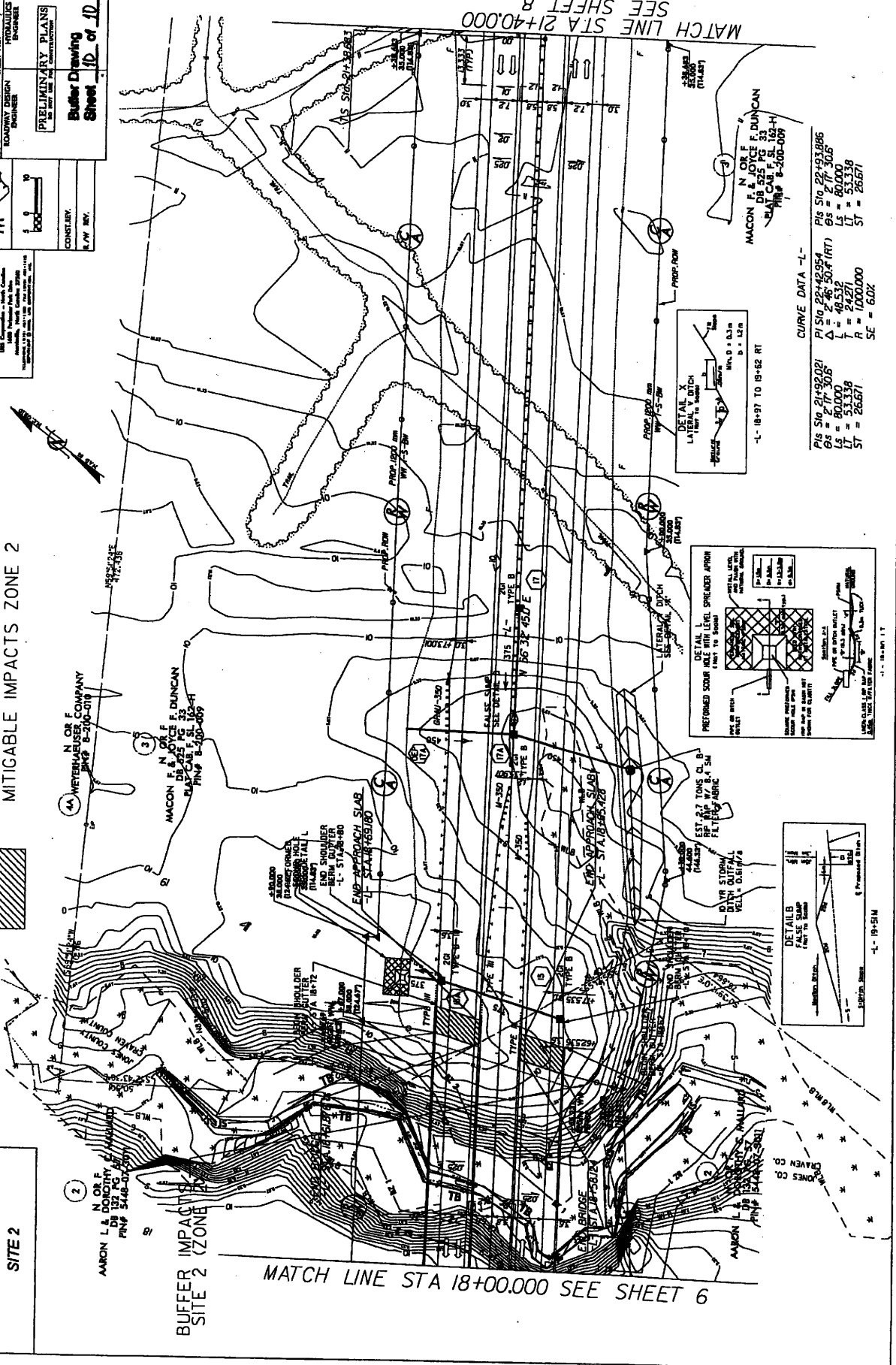


NOTE: FOR "L" PROFILE SEE SHEET 44 FOR BRIDGE SKETCH; SEE SHEET 6

MITIGABLE IMPACTS ZONE 2



BUFFER PERMIT
 SITE 2

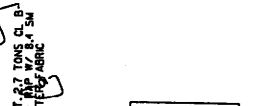
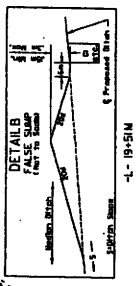
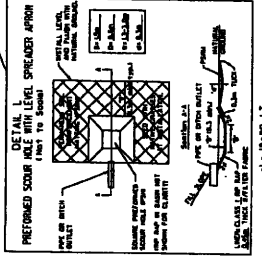


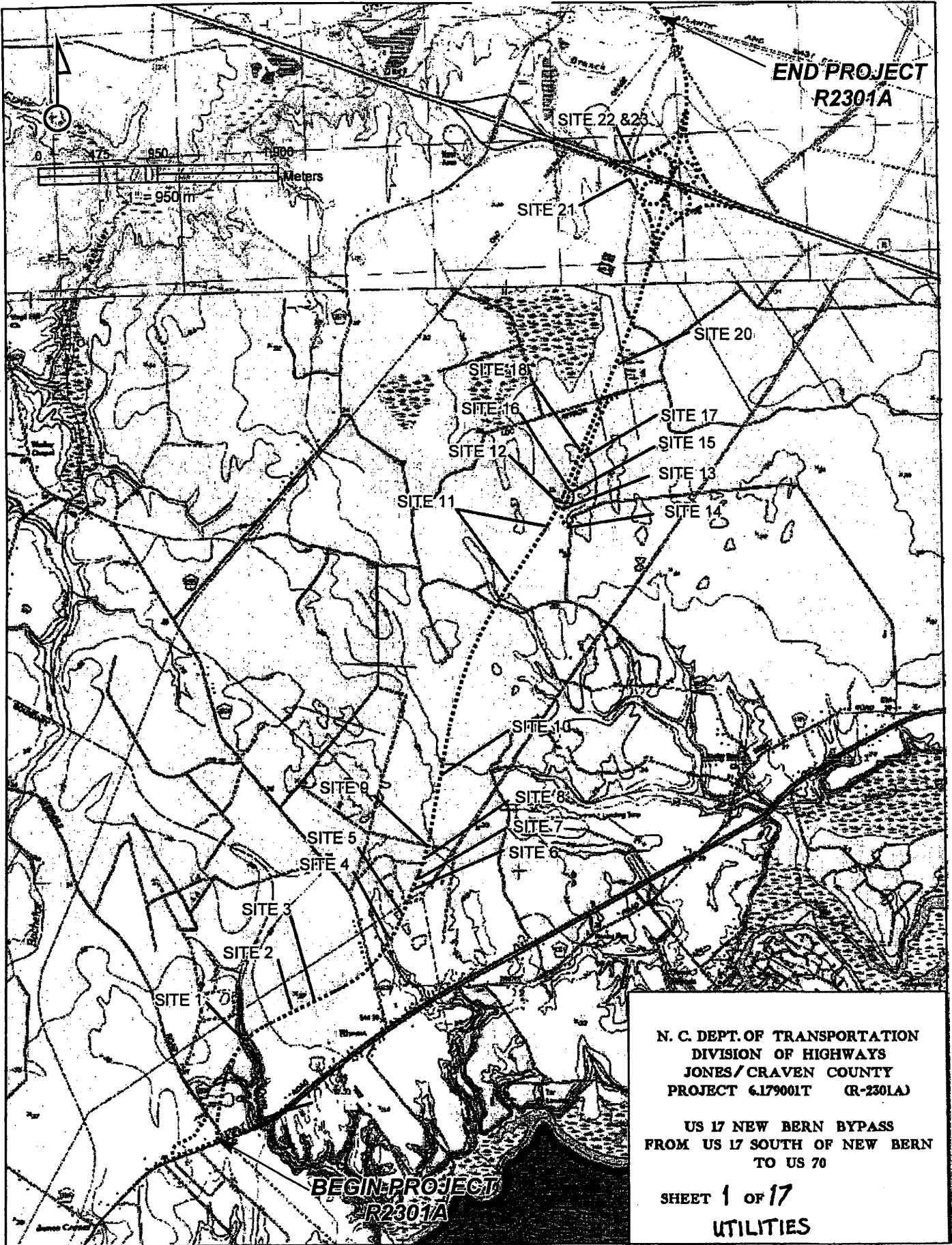
MATCH LINE STA 18+00.00 SEE SHEET 6

MATCH LINE STA 21+40.00
 SEE SHEET 8

CURVE DATA "L"

| | | |
|------------------|-------------------|------------------|
| PI S/O 21+92.081 | PI S/O 22+42.954 | PI S/O 22+49.986 |
| CS = 217.305 | CS = 246.500 (RT) | CS = 217.306 |
| LS = 80.000 | L = 48.532 | LS = 80.000 |
| LT = 53.338 | T = 24.271 | LT = 53.338 |
| ST = 26.671 | R = 1000.000 | ST = 26.671 |
| | SE = 6.02 | |





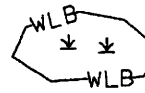
LEGEND

---WLB--- EXISTING QUALITY WETLAND BOUNDARY

---HO WLB--- HIGH QUALITY WETLAND BOUNDARY

---MO WLB--- MEDIUM QUALITY WETLAND BOUNDARY

---LO WLB--- LOW QUALITY WETLAND BOUNDARY

 WETLAND

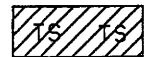
 DENOTES FILL IN WETLAND

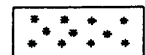
 DENOTES FILL IN SURFACE WATER

 DENOTES FILL IN SURFACE WATER (POND)


 DENOTES TEMPORARY FILL IN WETLAND

 DENOTES EXCAVATION IN WETLAND

 DENOTES TEMPORARY FILL IN SURFACE WATER

 DENOTES MECHANIZED CLEARING


 FLOW DIRECTION

 TOP OF BANK

 EDGE OF WATER

---C--- PROP. LIMIT OF CUT

---F--- PROP. LIMIT OF FILL

 PROP. RIGHT OF WAY

--- EX. RIGHT OF WAY

--- PROPERTY LINE

 PROP. R/W FENCE

+ PROPERTY CORNER

⊙ EXISTING IRON PIN

---TDE--- TEMP. DRAINAGE EASEMENT

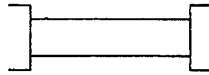
---PDE--- PERMANENT DRAINAGE EASEMENT

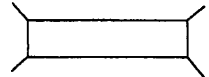
---EAB--- EXIST. ENDANGERED ANIMAL BOUNDARY

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

 5

ADJACENT PROPERTY OWNER OR PARCEL NUMBER

 PROPOSED BRIDGE

 PROPOSED BOX CULVERT

--- PROPOSED PIPE CULVERT



PROPOSED DRAINAGE STRUCTURE

(DASHED LINES DENOTE EXISTING STRUCTURES)



RIP RAP OUTLET PROTECTION



RIP RAP LINING



RIP RAP ENERGY DISSIPATOR BASIN



PREFORMED SCOUR HOLE



FALSE SUMP



SINGLE TREE



WOODS LINE

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
JONES AND CRAVEN COUNTIES

WBS: 34414 (R-2301A)

PROPERTY OWNER

NAME AND ADDRESS

| PARCEL NO. | OWNER'S NAME & ADDRESS |
|------------|-----------------------------|
| 4C | <i>Weyerhaeuser Company</i> |
| | |
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| WETLAND PERMIT IMPACT SUMMARY | | | | | | | | | | | | | | |
|-------------------------------|-------------------|-----------------------|------------------------------------|--------------------------------|--------------------------------|---|-----------------------------------|------------------------------|--------------------------|---|----------------------------|-------|-------|-------|
| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | | | SURFACE WATER IMPACTS | | | | | |
| | | | Permanent Fill in Wetlands (acres) | Temp. Fill in Wetlands (acres) | Excavation in Wetlands (acres) | Mechanized Clearing in Wetlands (acres) | Hand Clearing in Wetlands (acres) | Permanent SW Impacts (acres) | Temp. SW Impacts (acres) | Existing Channel Impacts Permanent (ft) | Natural Stream Design (ft) | | | |
| 20 | L 82+30 to 82+40 | | 0.000 | 0.000 | 0.000 | | | | | 0.000 | 0.000 | 0.000 | 0 | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| 0 | 0 | | 0.000 | | | | | | | | | | | |
| TOTALS: | | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Temp. Fill in Wetlands: 4 sq. ft.
Excavation in Wetlands: 4 sq. ft.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CRAVEN COUNTY
WBS - 34414.1.1 (R-2301A)
SHEET 4 of 17 5/30/2008

| | | | |
|--------------|--|----------------------------------|--|
| PROJECT NO. | | R-2301A | |
| SHEET NO. | | 1 | |
| DATE | | 3/4/11 | |
| DRAWN BY | | P.E. RWJ/UTL | |
| CHECKED BY | | 3/4/11 | |
| DATE | | 3/4/11 | |
| SCALE | | | |
| PROJECT NAME | | NEW BERN BYPASS | |
| LOCATION | | US 17 SOUTH OF NEW BERN TO US 70 | |
| DESIGNER | | JONES & CRAVEN COUNTIES | |

ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE NOTED

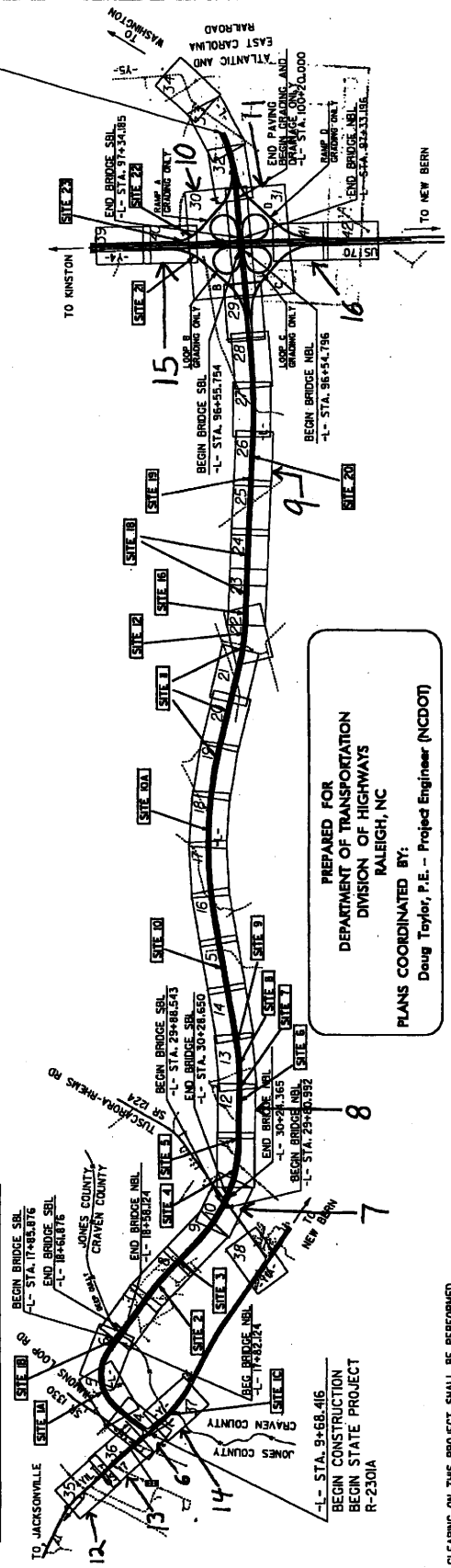
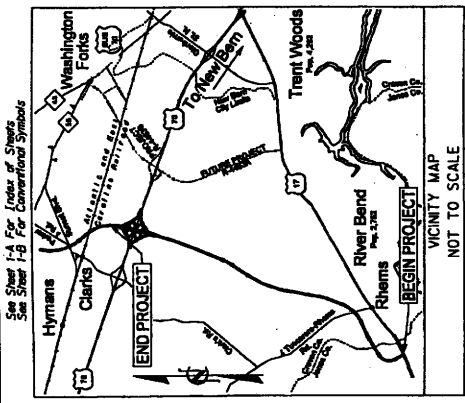
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

JONES & CRAVEN COUNTIES

**LOCATION: US 17 NEW BERN BYPASS
FROM US 17 SOUTH OF NEW BERN TO US 70**

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

UTILITIES PLAN
SHEET 5 of 17



PREPARED FOR
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, NC

PLANS COORDINATED BY:
Doug Toyler, P.E. - Project Engineer (NCDOT)

CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DESIGN DATA

ADT 2008 = 23,300
ADT 2028 = 40,300

DHY = 10 %
D = 60 %
T = 12 %
(6% TST + 6% DUAL)

V = 110 km/h

NATIONAL CLASSIFICATION

PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT 3464.3 = 3.1 KILOMETERS
LENGTH STRUCTURE STATE PROJECT 3464.3 = 3.1 KILOMETERS
TOTAL LENGTH STATE PROJECT 3464.3 = 3.1 KILOMETERS

(NBL USED FOR LENGTH CALCULATION)

THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGES

GRAPHIC SCALES

PLANS: 5 0 10
PROFILE (HORIZONTAL): 5 0 10
PROFILE (VERTICAL): 0.5 0 1

RIGHT OF WAY DATE:
JUNE 30, 2006

LETTING DATE:
NOVEMBER 18, 2008

URS
Project in the Office of
URS Corporation - North Carolina
100 Piedmont Park Drive, Suite 400
Raleigh, NC, North Carolina 27603
TEL: 919.487.1000 FAX: 919.487.1001

HYDRAULICS ENGINEER:
TIMOTHY H. KEENER, P.E.
PROJECT MANAGER

ROADWAY DESIGN ENGINEER:
JEFFREY A. KOONTZ, P.E.
PROJECT DESIGN MANAGER



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

TIP PROJECT: R-2301A

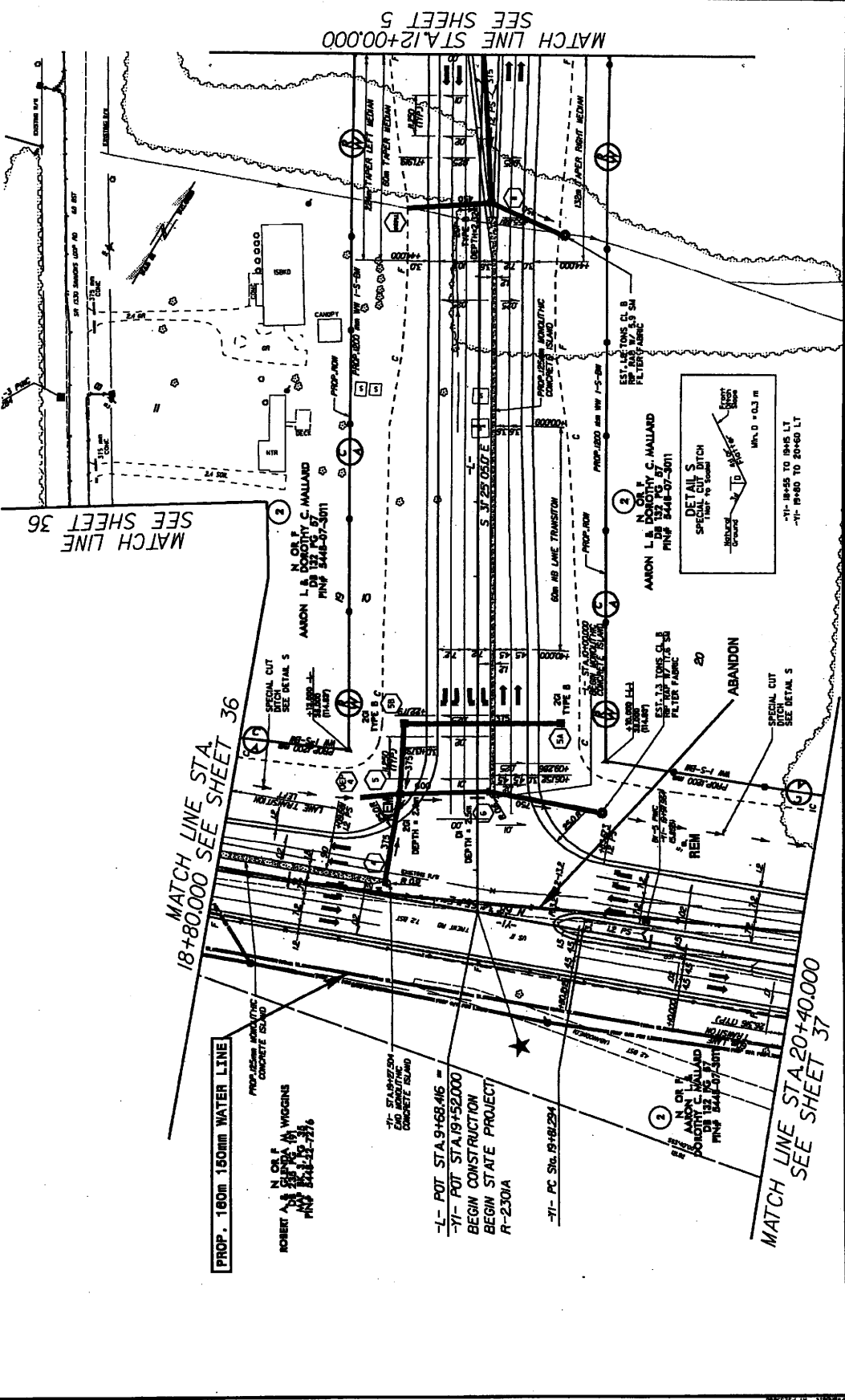
17/09/11 9:20 AM

PROJECT REFERENCE NO. R-2301A
UTILITIES BY OTHERS



PRELIMINARY PLAN
DO NOT USE FOR CONSTRUCTION

ALL PROPOSED UTILITIES MARKED BY SURFACE MARKERS



MATCH LINE STA.12+00.00
SEE SHEET 5

MATCH LINE
SEE SHEET 36

MATCH LINE STA. 18+80.00
SEE SHEET 36

PROP. 180mm WATER LINE

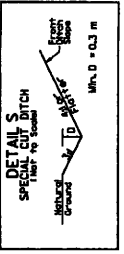
N OR F
ROBERT A. VIRGINIS
PIN# 3448-07-276

-L- POT STA. 9+68.46 =
-YI- POT STA. 19+52.000
BEGIN CONSTRUCTION
BEGIN STATE PROJECT
R-2301A

-YI- PC Sta. 19+68.294

N OR F
AMON L. B. DONOHY
PIN# 3448-07-301

MATCH LINE STA. 20+40.000
SEE SHEET 37

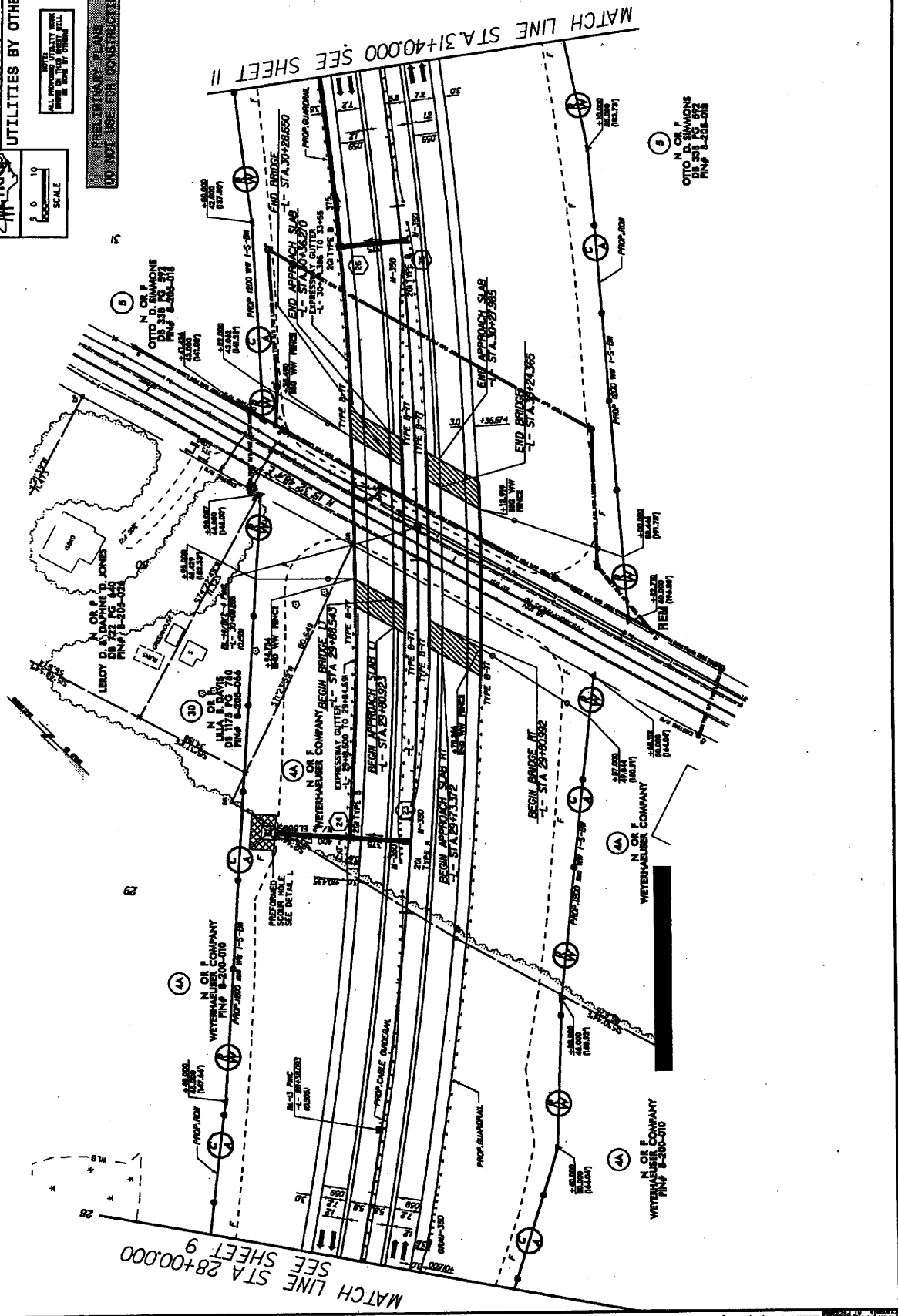


-YI- 4045 TO 1945 LT
-YI- 1940 TO 2040 LT

PROJECT REFERENCE NO. H-2301A
UTILITIES BY OTHERS



ALL UTILITIES SHOWN HEREON ARE THE PROPERTY OF THE CITY OF DENVER
DO NOT DISTURB EXISTING UTILITIES



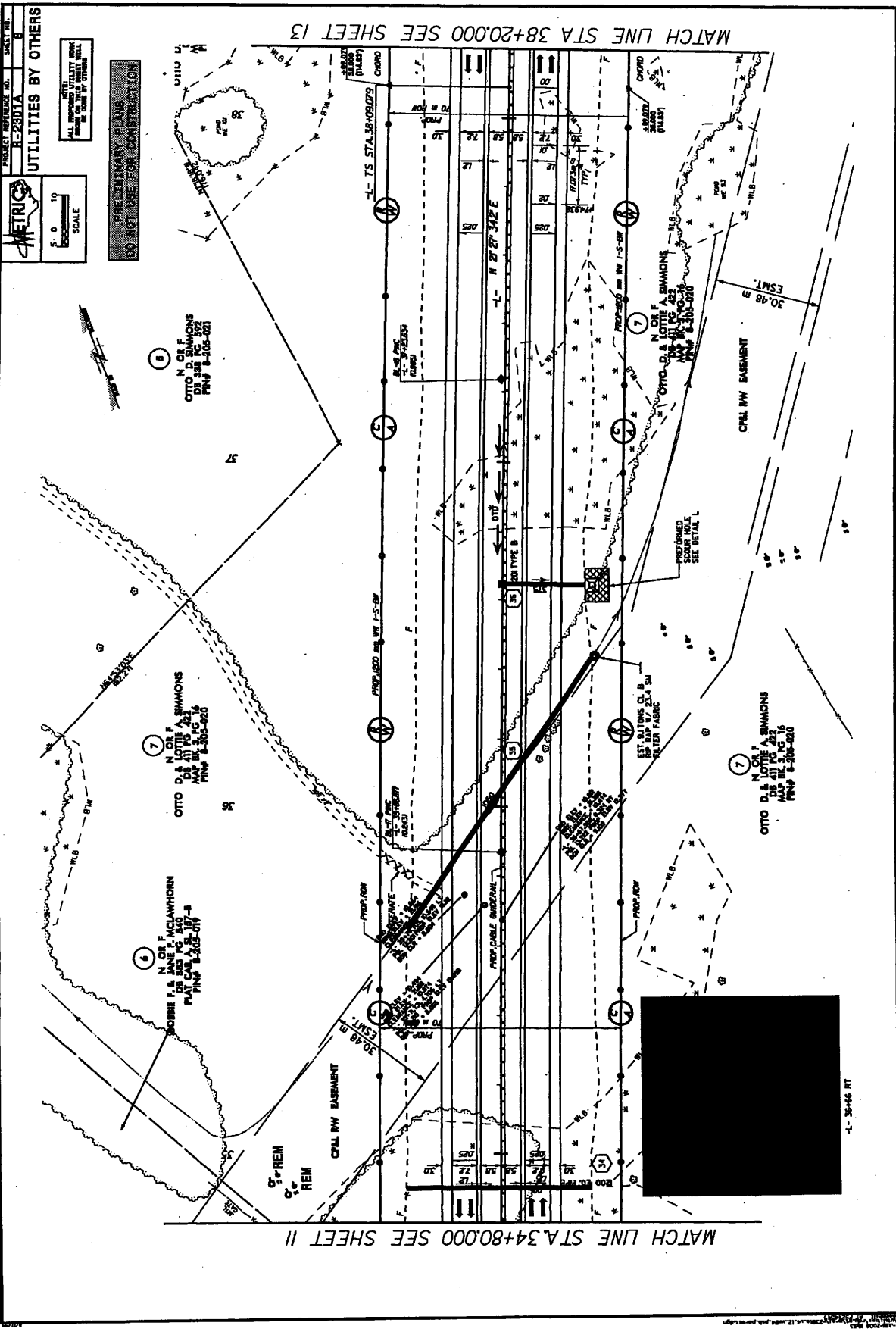
MATCH LINE STA 28+00.00
SEE SHEET 9

MATCH LINE STA 31+40.00 SEE SHEET II

N. O. F. COMPANY
LEROY D. SIMMONS
PIN P 8-208-016

WETERHABER COMPANY
N. O. F. COMPANY
PIN P 8-208-010

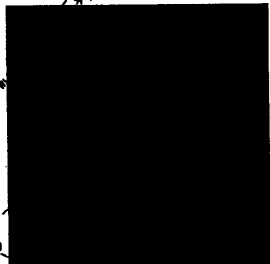
WETERHABER COMPANY
N. O. F. COMPANY
PIN P 8-208-010



MATCH LINE STA. 34+80.00 SEE SHEET 11

MATCH LINE STA 38+20.00 SEE SHEET 13

METRIC
 PROJECT REFERENCE NO. R-2301A SHEET NO. B
UTILITIES BY OTHERS
 SCALE: 1" = 20'
 ALL PROPOSED UTILITIES SHALL BE INSTALLED BY OTHERS.
 PRELIMINARY PLANS
 DO NOT CONSIDER FOR CONSTRUCTION.



4-30-66 RT

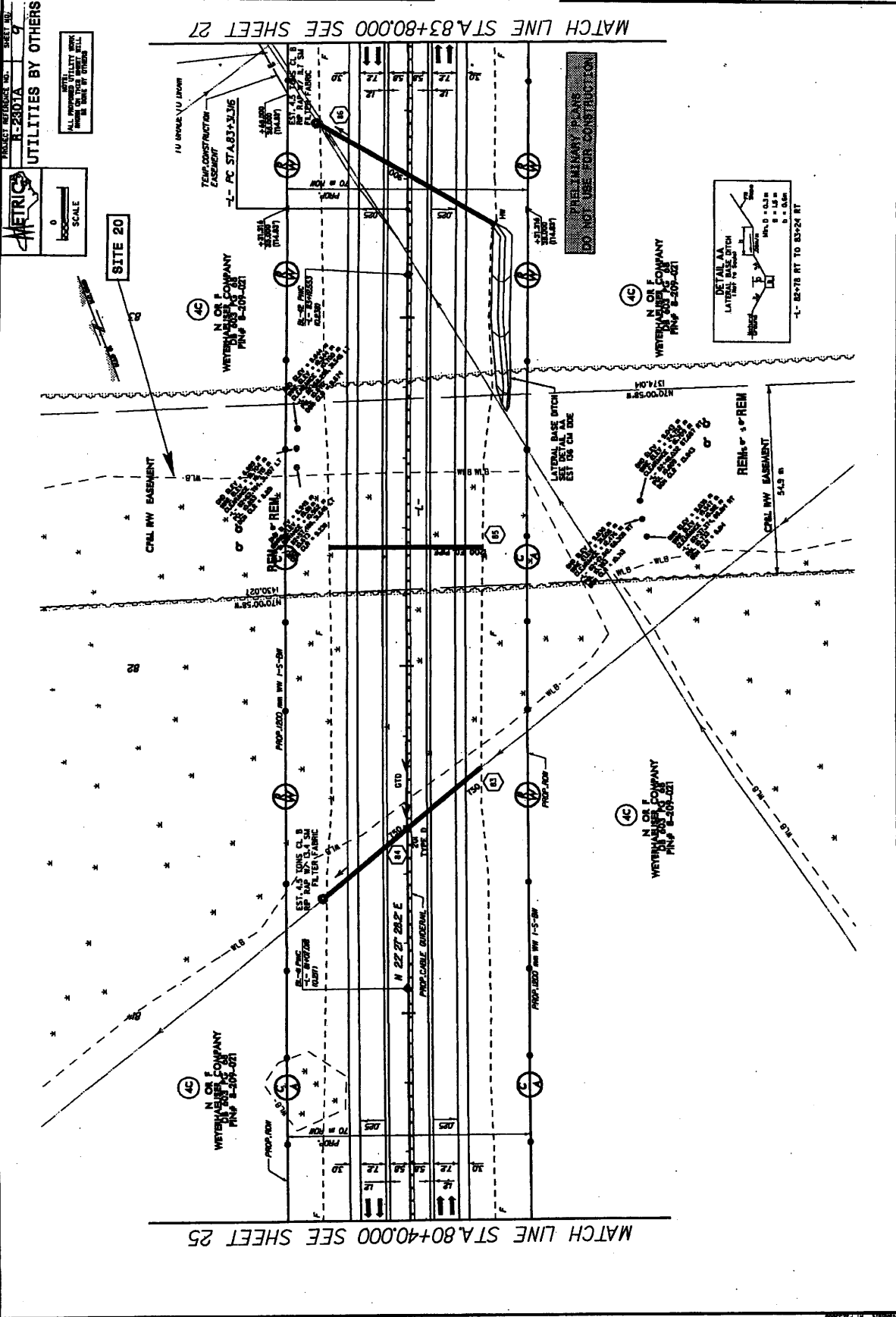
MATCH LINE STA.83+80.00 SEE SHEET 27

PROJECT REFERENCE NO. R-2301A
SHEET NO. 9
METRICS SCALE
0 100 200
FOOT

UTILITIES BY OTHERS

ALL SHOWN UTILITIES SHOWN IN THIS PLAN UNLESS INDICATED OTHERWISE

SITE 20



MATCH LINE STA.80+40.00 SEE SHEET 25

DETAIL AT MATCH LINE STA. 83+80.00
LATERAL BASE WITCH
EST. 1.5' DIA. L.O. B. FOR 15A T.E. PUBLIC UTILITY
1.5' DIA. L.O. B. FOR 15A T.E. PUBLIC UTILITY
1.5' DIA. L.O. B. FOR 15A T.E. PUBLIC UTILITY
1.5' DIA. L.O. B. FOR 15A T.E. PUBLIC UTILITY

10-11-2008 2008 08/01/08

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

MATCH LINE STA. 6+80.000 SEE SHEET 40

METRIC

SCALE
1" = 40'

PROJECT REFERENCE NO. H-2307A
SHEET NO. 10

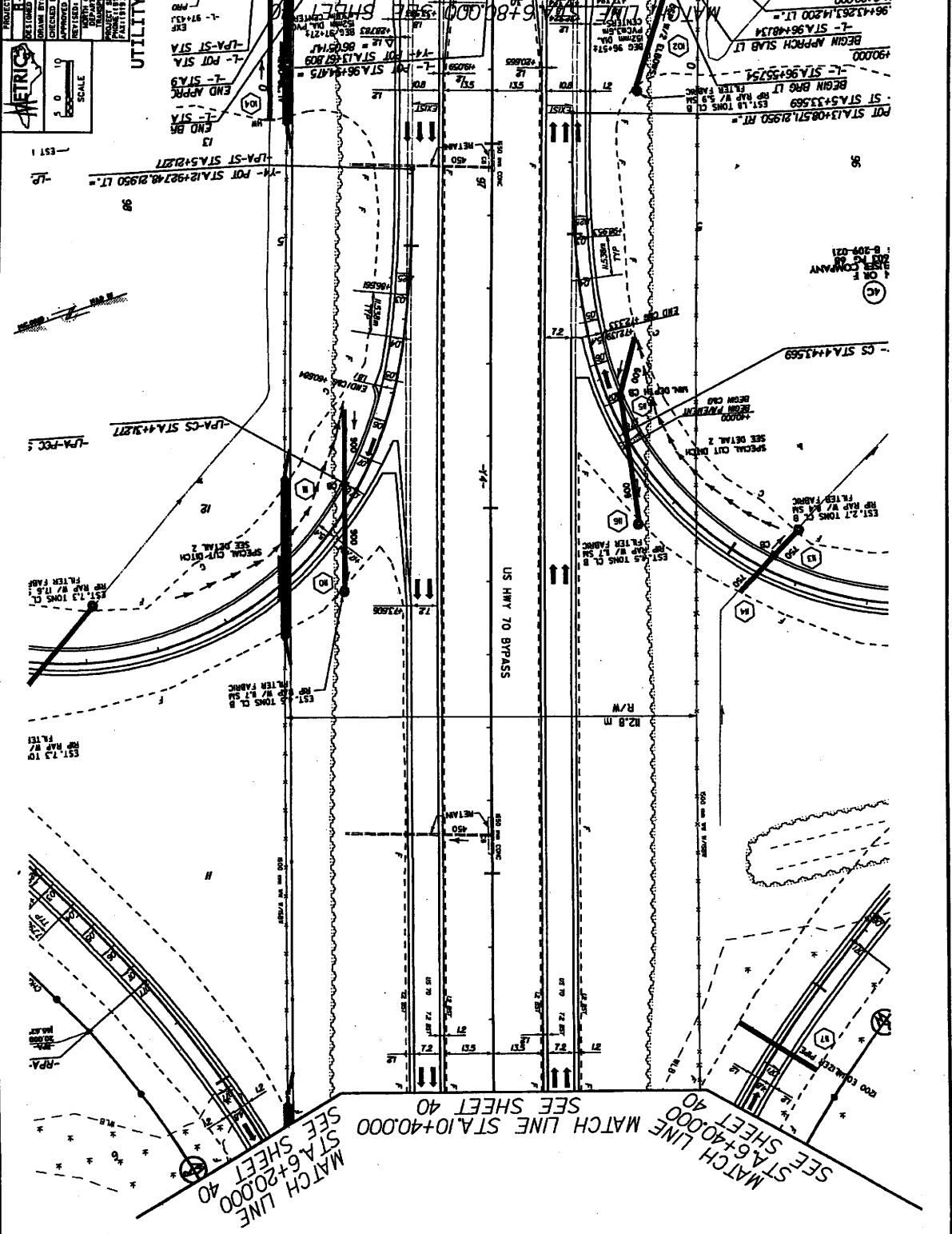
DESIGNED BY: [blank]
CHECKED BY: [blank]
APPROVED BY: [blank]

DATE: [blank]

REVISIONS:

DATE: [blank]
BY: [blank]
REASON: [blank]

UTILITY CONSTRUCTION
PLANS ONLY



UTILITY CONSTRUCTION
PLANS ONLY

SEE STA. 6+40.000
SEE SHEET 40
MATCH LINE
STA. 6+20.000
SEE SHEET 40

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

METRICS

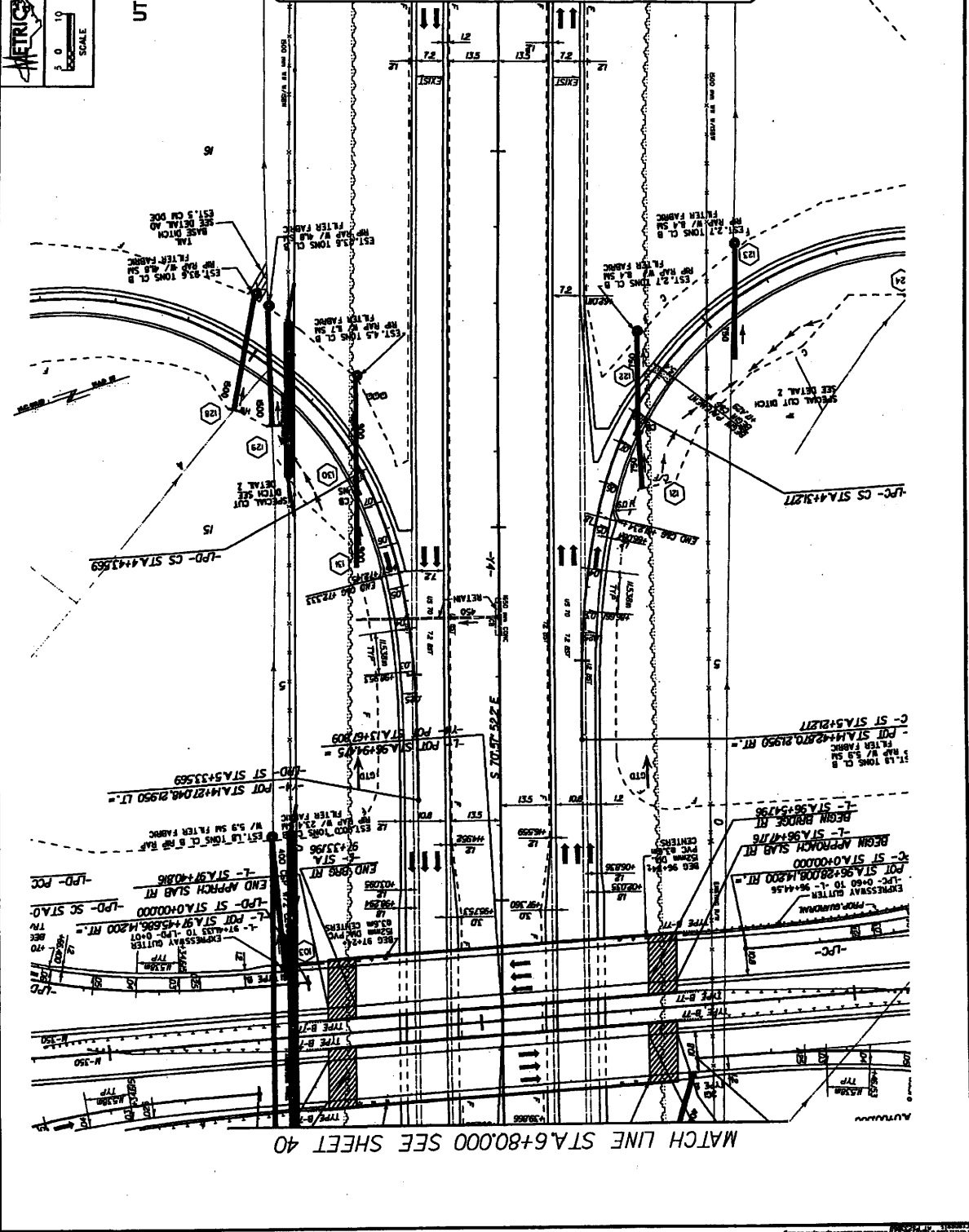
PROJECT REFERENCE NO. 11
 DRAWN BY: [blank]
 CHECKED BY: [blank]
 APPROVED BY: [blank]
 REVISED: [blank]
 DATE: [blank]

SCALE: 1" = 10'

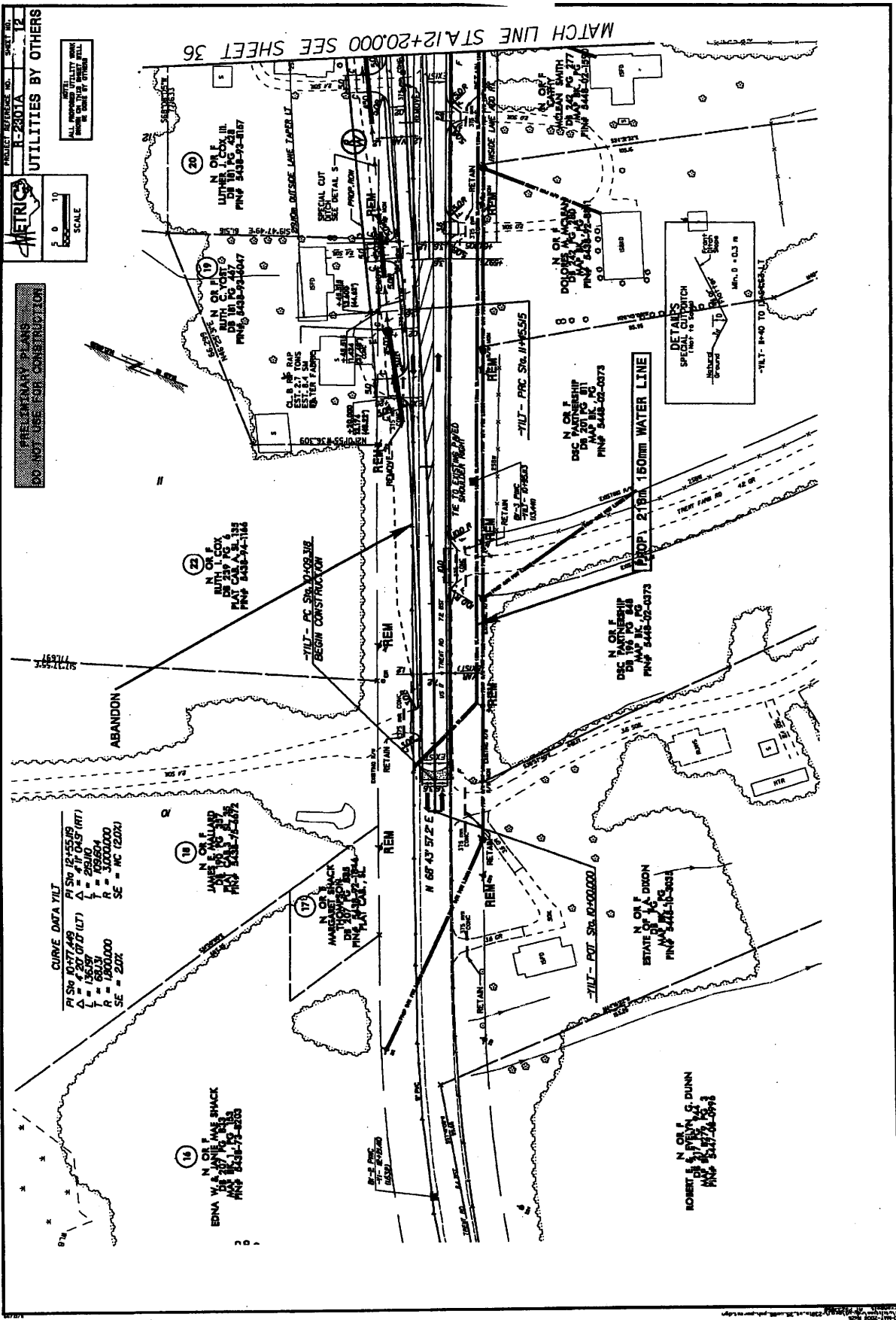
UTILITY CONSTRUCTION

MATCH LINE STA 16+40.000
SEE SHEET 41

MATCH LINE
STA 6+60.000
SEE SHEET 41



MATCH LINE STA 6+80.000 SEE SHEET 40



PROJECT REFERENCE NO. R-2001A SHEET NO. 12

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SCALE
5 0 10
FOOT

CURVE DATA YILT

| | |
|------------------|------------------|
| PI STA. 10+77.69 | PI STA. 12+55.19 |
| A = 207.00 (LT) | A = 471.00 (RT) |
| L = 136.59 | L = 293.00 |
| T = 68.23 | T = 136.50 |
| R = 1300.00 | R = 1300.00 |
| SE = 2.0% | SE = 2.0% |

MATCH LINE STA. 12+20.00 SEE SHEET 36

ROBERT S. DUNN
100 W. 100th St.
P.O. Box 280
PNC 5517-2800

ESTATE OF JACQUELINE
DIXON
100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

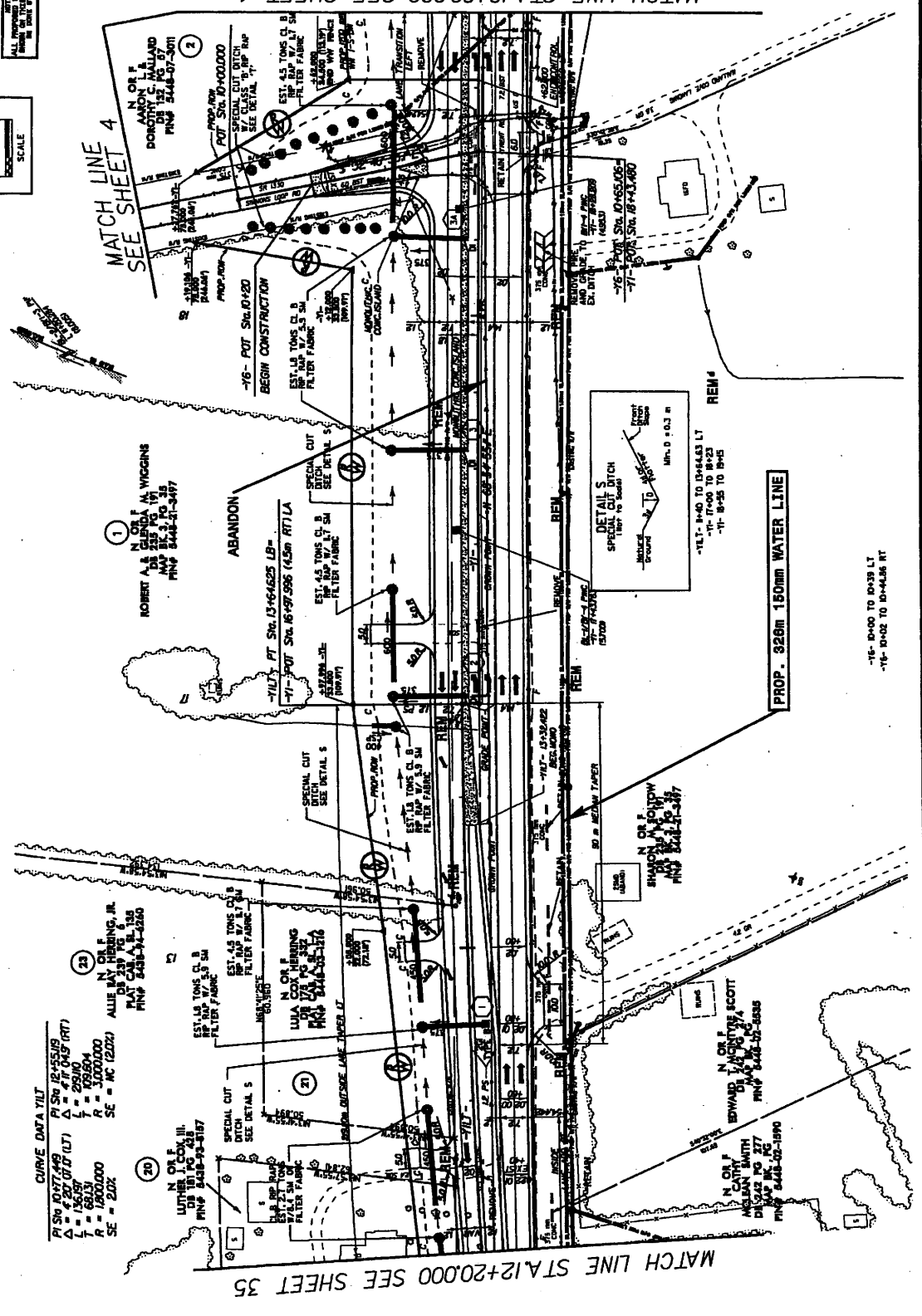
N. O. F. F. F. F.
DSC 100 W. 100th St.
P.O. Box 280
PNC 5517-2800

PROJECT REFERENCE NO. R-2301A SHEET NO. 13 UTILITIES BY OTHERS



5 0 10 SCALE

ALL UTILITIES SHOWN HEREON ARE TO BE CONSIDERED AS SHOWN UNLESS OTHERWISE NOTED



CURVE DATA YILT
R SW 1037.43
L = 156.97
T = 68.33
R = 1800.000
SE = 20Z
PI SW 1855.18
Δ = 411.045 (RT)
L = 259.00
T = 109.604
R = 3000.000
SE = 1C (220Z)

(20) N OR F LUTHER L COX III
DR 1018-73-3187
P/NP 8418-74-2260

(21) N OR F LULA N CONNORING
DR 1018-73-3187
P/NP 8418-74-2260

(22) N OR F ALVIN W MERRING, JR.
DR 1018-73-3187
P/NP 8418-74-2260

(1) N OR F ROBERT A & GUNDA M WIGGINS
DR 1018-73-3187
P/NP 8418-74-2260

(2) N OR F AARON L & BONNIE S HAWLAND
DR 1018-73-3187
P/NP 8418-74-2260

(3) N OR F EDWARD J ORTIVE SCOTT
DR 1018-73-3187
P/NP 8418-74-2260

(4) N OR F MARYANN MATH
DR 1018-73-3187
P/NP 8418-74-2260

MATCH LINE STA.12+2000 SEE SHEET 35

MATCH LINE 4 SEE SHEET 4

MATCH LINE STA.18+80.00 SEE SHEET 4

PROP. 326m 180mm WATER LINE

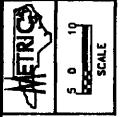
-16- 10+00 TO 10+39 LT
-16- 10+02 TO 10+4.06 RT

DETAILS SPECIAL CUT DITCH
MIN. D = 0.3 m

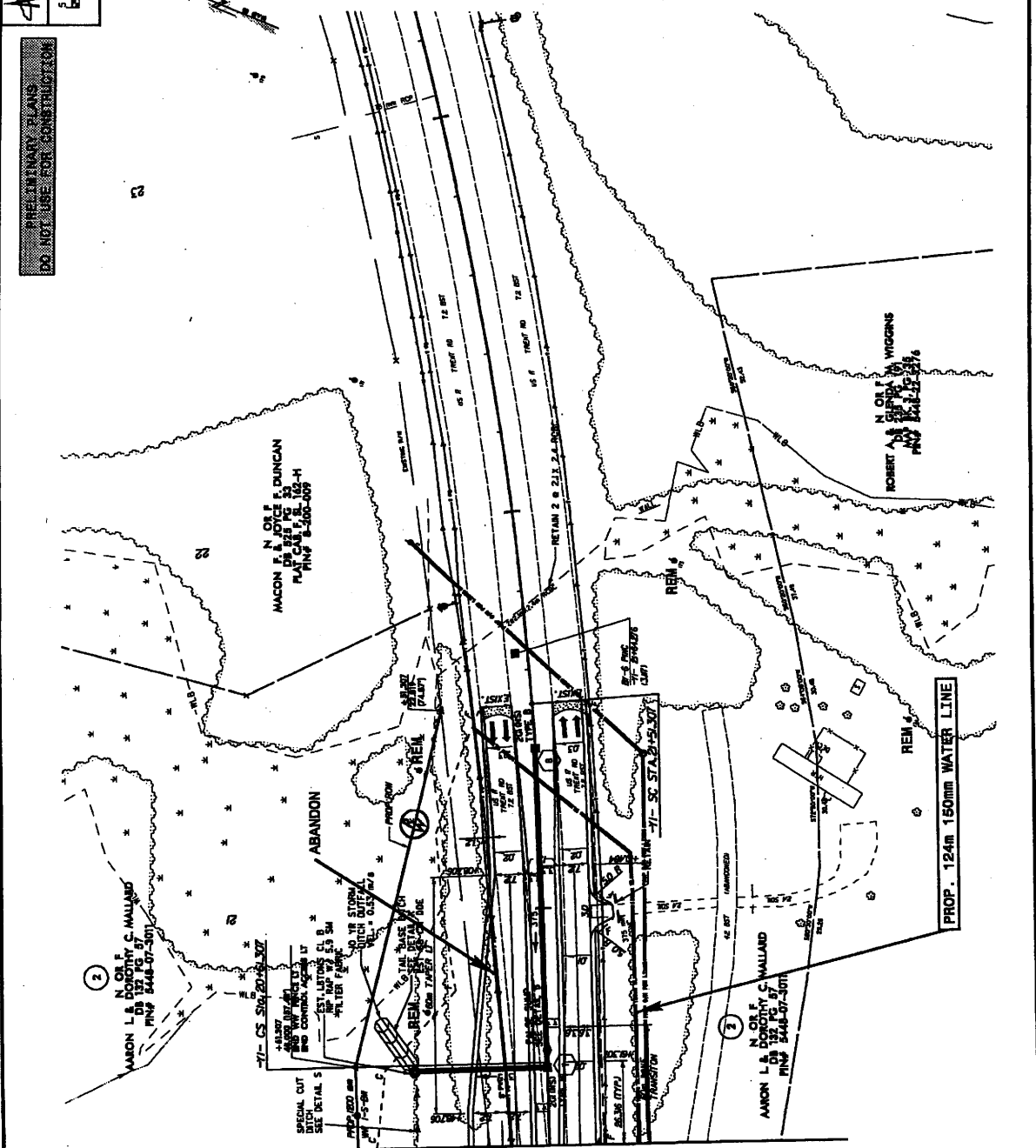
-16T- 10+40 TO 10+64.63 LT
-16- 10+40 TO 10+62
-16- 10+52 TO 10+65

REM#

PROJECT REFERENCE NO. R-2801A SHEET NO. 1A
UTILITIES BY OTHERS



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



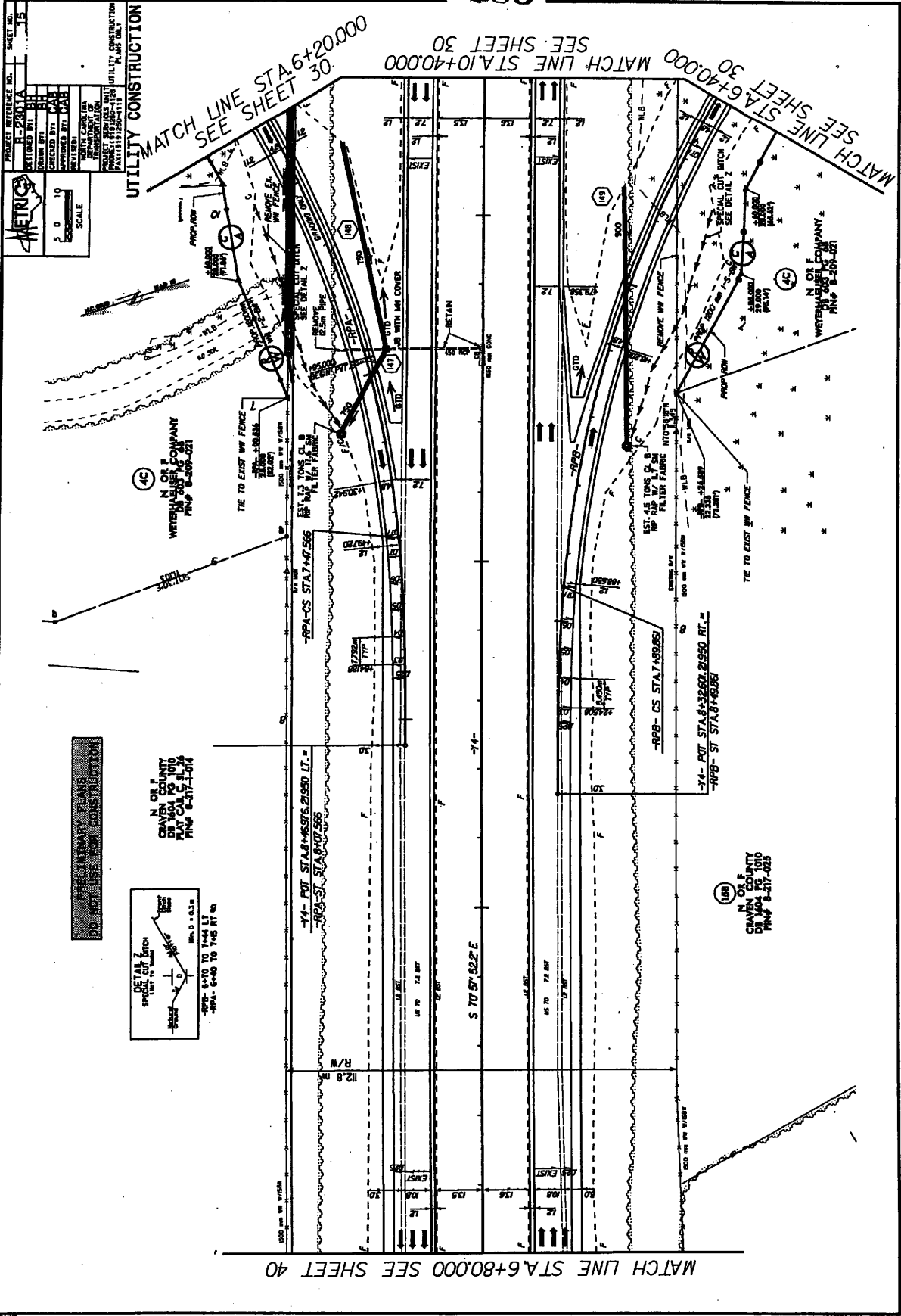
MATCH LINE STA. 20+40.00 SEE SHEET 4

PROP. 124m 150mm WATER LINE

2
N O R F
L A DODD C MALLARD
OS 127 16 57
PIN# 2448-37-3071

3
N O R F
L A DODD C MALLARD
OS 127 16 57
PIN# 2448-37-3071

N O R F
WIDDONS
ROBERT A WIDDONS
PIN# 2448-37-3071



METRICS

PROJECT REFERENCE NO. H-2301A SHEET NO. 15

| | |
|-------------|----------|
| DESIGNED BY | BT |
| CHECKED BY | MAE |
| DATE | 08/11/08 |
| SCALE | 1" = 40' |

UTILITY CONSTRUCTION

PROJECT SERVICES PROVIDED BY METRICS CONSULTANTS, INC. (MAY 2008 - PRESENT)

PROJECT SERVICES PROVIDED BY METRICS CONSULTANTS, INC. (MAY 2008 - PRESENT)

PROJECT SERVICES PROVIDED BY METRICS CONSULTANTS, INC. (MAY 2008 - PRESENT)

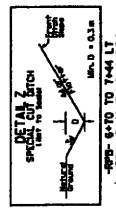
MATCH LINE STA. 6+40.00 SEE SHEET 30

MATCH LINE STA. 10+40.00 SEE SHEET 30

MATCH LINE STA. 6+80.00 SEE SHEET 40

MATCH LINE STA. 6+40.00 SEE SHEET 30

UTILITY CONSTRUCTION



N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

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CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

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CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

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PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

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PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

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N. OR F. COUNTY
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DE 1004 PG 1010
PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

N. OR F. COUNTY
CHAVEN COUNTY
DE 1004 PG 1010
PMP 8-217-1014

MATCH LINE STA.19+60.00 SEE SHEET 42

METRICS

PROJECT REFERENCE NO. H-2301A SHEET NO. 18

DESIGNED BY: [Signature]

DRAWN BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

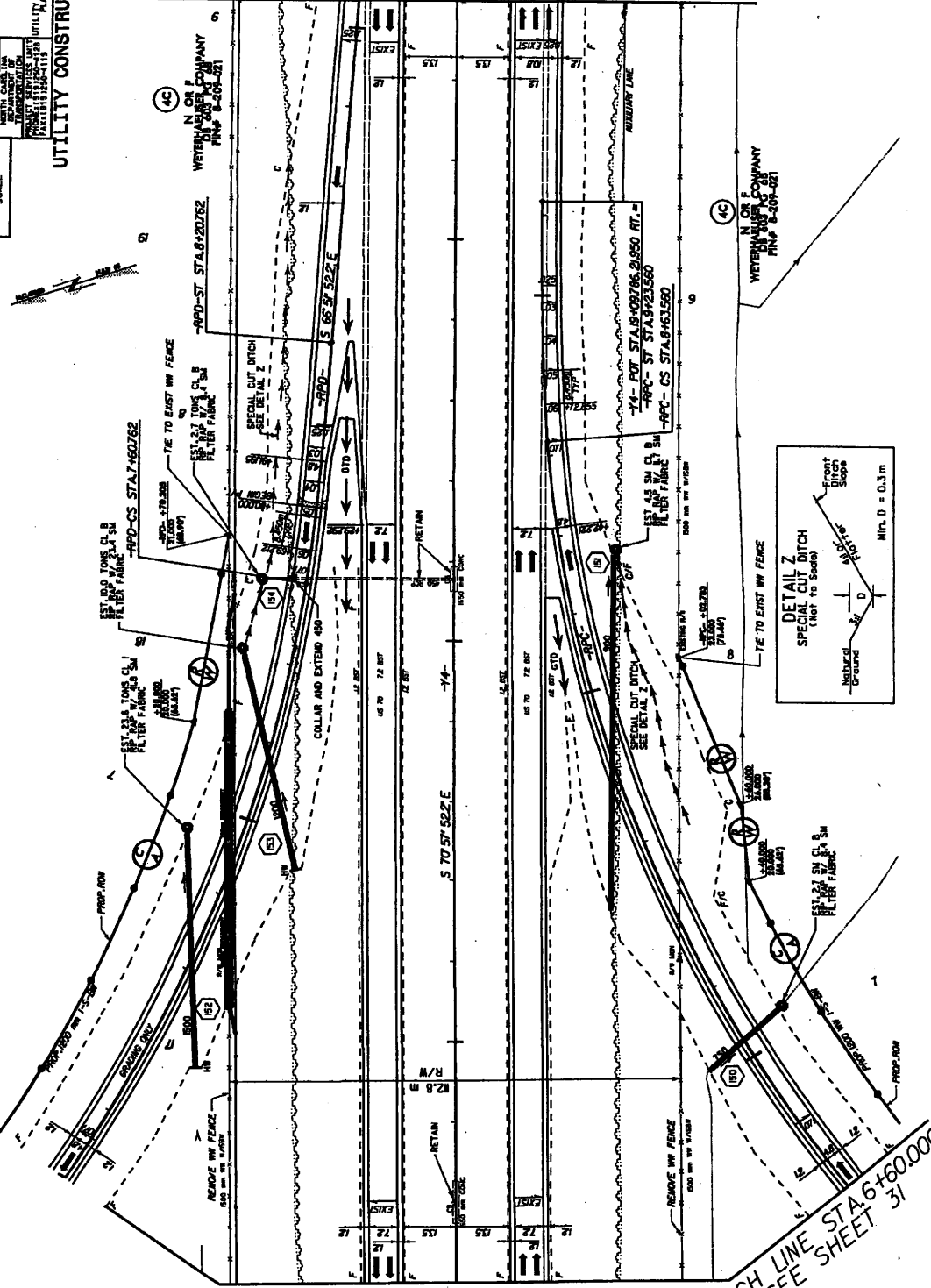
SCALE: 1" = 10'

DATE: [Date]

UTILITY CONSTRUCTION PLAN ONLY

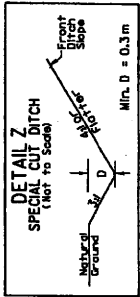
FOR PRELIMINARY PLANS ONLY

DO NOT USE FOR CONSTRUCTION



MATCH LINE STA.16+40.00 SEE SHEET 31

MATCH LINE STA.19+60.00 SEE SHEET 31



Revised 5-8-09

287

North Carolina
Environmental Management Commission
Department of Environment and Natural Resources

**Permit For The Withdrawal And Use Of Water
In The Central Coastal Plain Capacity Use Area**

In accordance with the provisions of Part 2, Article 21 of Chapter 143, General Statutes of North Carolina as amended, and any other applicable Laws, Rules and Regulations,

Permission Is Hereby Granted To

NC Department of Transportation

Project No. R-2301A (US 17 New Bern Bypass from US 7 south of New Bern to US 70)

FOR THE

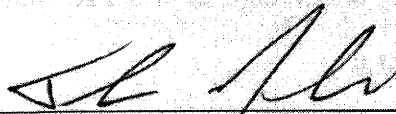
Withdrawal and Use of Water in Craven and Jones Counties, North Carolina in accordance with the grantee's application dated November 19, 2008, and any supporting data submitted with the application, all of which are filed with the Department of Environment and Natural Resources and are considered part of this Permit.

This Permit shall be effective from the date of its issuance until January 31, 2014, and shall be subject to the specified conditions and/or limitations contained in Sections I - X of this Permit.

Permit issued this the 30 day of January, 2009.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

BY



Thomas A. Reeder
Director, Division of Water Resources

By Authority of the Secretary of the Department of Environment and Natural Resources

PERMIT #CU4016

I. WITHDRAWALS**A. USE**

This Permit allows the withdrawal of water for the purpose of dewatering borrow pits to extract material for road construction.

B. RATES OF WITHDRAWALS

The maximum quantity of water that may be withdrawn shall not exceed what is established in the Reclamation Plan as specified in NCDOT's CCPCUA Special Provisions document.

C. SOURCE(S) OF WITHDRAWALS

Ground Water Source(s): Withdrawals shall be made from sumps in borrow pits in the surficial aquifer.

D. MONITORING OF WITHDRAWALS

Withdrawals from each source, whether well or sump, shall be measured by an approved metering device equipped with a totalizing indicator, and having an accuracy within plus or minus five percent.

II. WATER LEVELS**A. MAXIMUM DRAWDOWN LEVELS**

1. Pump intakes for the well(s) shall not be set below the depth specified in the permit application or associated documentation without prior approval of the Division of Water Resources.
2. In the event that data from the permitted wells or other wells within the zone influenced by pumping of the permitted wells indicates a deterioration of quality or quantity in surrounding aquifers or the source aquifer, an alternate maximum pumping level may be established by the Division of Water Resources.

B. MONITORING OF WATER LEVELS

1. The pumping water level in each supply well shall be measured once a month:
 - a. by a steel or electric tape from a fixed reference point, or by using the air-line method
 - b. within accuracy limits of plus or minus one percent,
 - c. just prior to shutting off the pump, or after sufficient time of pumping, so that a maximum drawdown may be obtained, and
 - d. during the last planned pumping day of the month, or within the last five days of the month.

2. The static water level in each supply well shall be measured once a month:
 - a. by a steel or electric tape from a fixed reference point, or by using the air-line method
 - b. within accuracy limits of plus or minus one percent,
 - c. after the pump is shut off for approximately 12 hours, and
 - d. within the last five days of the month.
3. Unused supply wells or other suitable wells that may be available shall be monitored when such monitoring is specified by the Division of Water Resources and when pertinent to observation or evaluation of the effects of withdrawals made under this permit.

III. OTHER PROVISIONS

A. WELL CONSTRUCTION APPROVAL

A Well Construction Permit shall be required prior to the construction of any well that will be used to withdraw any portion of the water regulated under this Permit. Application for these permits must be submitted to the Washington Regional Office, Division of Water Quality, P.O. Box 2188, Washington, NC 27889.

B. ACCESS TO FACILITIES

The Environmental Management Commission and employees of the Department of Environment and Natural Resources shall have reasonable access to areas owned and under control of the permittee for observation and inspection of water use and related facilities pertinent to the provisions of this permit and other regulations.

IV. REPORTS REQUIRED

A. WITHDRAWALS

Monthly reports of daily withdrawal totals from each well or sump shall be furnished to the Division on a quarterly basis, within 30 days after the end of March, June, September and December.

B. WATER LEVELS

Water level measurements for each supply well shall be measured in accordance with Condition II. B. 1. of this permit and submitted to the Division not later than 30 days after the end of the calendar month in which the measurement was taken.

V. MODIFICATION OR REVOCATION**A. MODIFICATION**

1. The Permittee must notify the Director of any proposed major changes in usage and apply for a modification of the permit for such changes or for any revisions of the terms of this permit.
2. The Director may modify the terms of the permit, after 60 days written notice to the permittee, if he finds that the terms of the permit and/or the resulting water use are found to be contrary to the purposes of the Water Use Act of 1967 or contrary to public interest or having an unreasonably adverse effect upon other water uses in the capacity use area. Modifications may include, but are not limited to, requirements for alternate pumping levels or the collection, analysis, and reporting of ground or surface water quality samples.

B. REVOCATION

The Director may revoke the permit if he finds that:

1. the Permittee has violated the terms of the permit; or
2. the terms of the Permit and/or the resulting water use are contrary to the purpose of the Water Use Act of 1967 or contrary to the public interest or having an unreasonably adverse effect upon other water uses in the capacity use area and cannot be cured by modification; or
3. the Permittee made false or fraudulent statements in the application for the water use permit; or
4. water withdrawn under the terms of the permit is used for purposes other than those set forth in the permit.

VI. CONSTRUCTION OF PERMIT

- A. The terms and conditions shall not be construed to relieve the Permittee of any legal obligation or liability, which it owes or may incur to third parties as the result of the conduct of its operations in conformity with this Permit.
- B. When under the terms hereof, any provision of this Permit requires approval of the Department or becomes effective at the discretion of the Department, the notice of approval or the exercise of such discretion shall be evidenced by written instrument issued by the Department.
- C. The terms and conditions of this Permit shall not be construed as a limitation of the powers, duties, and authority vested in the Environmental Management Commission or any other State, Federal, or local agency, or any applicable laws hereafter enacted.

VII. ADDITIONAL CONDITIONS

- A. This Permit shall be subject to any limitations or conditions in other State permits, including but not limited to permits required pursuant to North Carolina General Statutes §143-215.1.
- B. Issuance of this Permit shall have no bearing on subsequent State decision(s) regarding any other water use or other permit application(s) submitted or which may be submitted by the Permittee, its successors or assigns.
- C. Compliance with the terms and conditions in this permit does not relieve the permittee of compliance with any provision, now in force or hereafter enacted or promulgated, of the Water Use Act of 1967, the regulations promulgated thereunder, or any other provision of State law.

VIII. PENALTIES

Violations of the terms and conditions of this Permit are subject to penalties as set forth in North Carolina General Statutes §143-215.17.

IX. PERMIT NONTRANSFERABLE

Water Use Permits shall not be transferred except with approval of the Environmental Management Commission.

X. RENEWAL OF PERMIT

The Permittee, at least three (3) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.

Report of Water Withdrawals from Each Source

North Carolina Department of Environment and Natural Resources
 Mail to: Division of Water Resources - NC DENR, Attention: Capacity Use Administration
 1611 Mail Service Center
 Raleigh, North Carolina 27699-1611

Facility NC DOT - (R-2301A) Permit # CU4016
 CHECK BOX IF NO USE THIS MONTH of

For month of _____ Year _____ Sheet # _____

Revised 5-8-09

| Well/Sump ID → | meter readings ↓ | gallons per day | meter readings ↓ | gallons per day | meter readings ↓ | gallons per day | Total Withdrawn |
|---------------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|-----------------|
| Beginning reading → | | | | | | | |
| Day 1 | | | | | | | |
| Day 2 | | | | | | | |
| Day 3 | | | | | | | |
| Day 4 | | | | | | | |
| Day 5 | | | | | | | |
| Day 6 | | | | | | | |
| Day 7 | | | | | | | |
| Day 8 | | | | | | | |
| Day 9 | | | | | | | |
| Day 10 | | | | | | | |
| Day 11 | | | | | | | |
| Day 12 | | | | | | | |
| Day 13 | | | | | | | |
| Day 14 | | | | | | | |
| Day 15 | | | | | | | |
| Day 16 | | | | | | | |
| Day 17 | | | | | | | |
| Day 18 | | | | | | | |
| Day 19 | | | | | | | |
| Day 20 | | | | | | | |
| Day 21 | | | | | | | |
| Day 22 | | | | | | | |
| Day 23 | | | | | | | |
| Day 24 | | | | | | | |
| Day 25 | | | | | | | |
| Day 26 | | | | | | | |
| Day 27 | | | | | | | |
| Day 28 | | | | | | | |
| Day 29 | | | | | | | |
| Day 30 | | | | | | | |
| Day 31 | | | | | | | 292 |