

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
Stormwater	Division of Environmental and Natural Resources, 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.

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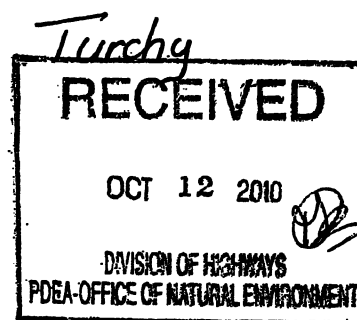


IN REPLY REFER TO

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS

Washington Regulatory Field Office
Post Office Box 1000
Washington, North Carolina 27889-1000

October 6, 2010



Regulatory Division

Action ID No. SAW-1994-02124

Dr. Gregory J. Thorpe, Ph.D.
Environmental Management Director, PDEA
N.C. Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Reference the Department of the Army (DA) permit issued to you on February 5, 2009, to widen approximately 5.5 miles of US 158/NC34 (TIP R-2414 A & B) from an existing two lane facility to a multi-lane facility from just east of the Pasquotank River to the US 158/NC 34 split in Belcross, Camden County, North Carolina. Also reference your subsequent written request dated October 1, 2010, for a permit modification to place additional fill in jurisdictional wetlands at sites 3, 6 and 7 of the B section of the project to prevent subsidence around the three culverts being installed at these sites.

The proposed modification will increase jurisdictional impacts at the B section of the project by filling an additional 0.04 acres of wetlands.

This modification request was coordinated with the appropriate State and Federal agencies and the coordination revealed no objections to this modification request. Therefore, the permit is hereby modified in accordance with the specific work activities described above and in the enclosed plans. It is understood that all conditions of the original permit remain applicable and that the expiration date is unchanged. In addition, the permittee will comply with the following special permit conditions:

a. All work authorized by this permit modification must be performed in strict compliance with the attached work plans, which are part of this permit. Any modification to the permit plans must be approved by USACE prior to implementation.

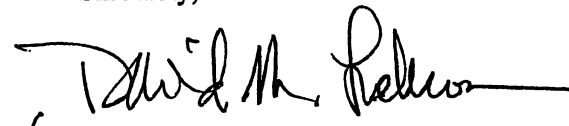
b. Special condition t. of the original permit referenced above is hereby modified as follows: Compensatory mitigation for the unavoidable impacts to 4.7 acres of riparian wetlands and 246 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated October 1, 2010, from William D.

Gilmore, EEP Director. Pursuant to the Tri-Party Memorandum of Agreement (MOA) between the NC Department of Environment and Natural Resources, the NC Department of Transportation and the US Army Corps of Engineers executed on March 8, 2007, and in accordance with Section X of Amendment No. 2 to the MOA, the EEP will provide 9.4 acres of restoration equivalent riparian wetlands and 492 linear feet of restoration equivalent warm water stream channel in the Pasquotank River Basin (Hydrologic Cataloging Unit 03010205). 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.

c. 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.

Any questions regarding this correspondence may be directed to Mr. Bill Biddlecome, NCDOT Coordinator/Regulatory Project Manager at the Washington Regulatory Field Office, telephone (910) 251-4558.

Sincerely,


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

Enclosure:

Copies Furnished (without enclosure):

Ms. Cathy Brittingham
Division of Coastal Management
1638 Mail Service Center
Raleigh, North Carolina 27699-1638

Mr. David Wainwright
Water Quality Section
North Carolina Division of Environment
and Natural Resources
1650 Mail Service Center
Raleigh, North Carolina 27699-1650

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



IN REPLY REFER TO

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

July 1, 2010

Regulatory Division**Action ID No. SAW-1994-02124**

Dr. Gregory J. Thorpe, Ph.D.
Environmental Management Director, PDEA
N.C. Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Reference the Department of the Army (DA) permit issued to you on February 5, 2009, to widen approximately 5.5 miles of US 158/NC34 (TIP R-2414 A & B) from an existing two lane facility to a multi-lane facility from just east of the Pasquotank River to the US 158/NC 34 split in Belcross, Camden County, North Carolina. Also reference your subsequent written request dated May 21, 2010, for a permit modification to place additional fill in jurisdictional wetlands at sites 8 and 10 of the A section of the project to correct roadway grade elevations that are failing due to steeper than 1:1 shoulder slopes. Additionally, for the B section of the project you propose to reduce impacts at site 3 because this site has been previously filled by a permit obtained by the current landowner.

The proposed modification will increase jurisdictional impacts at the A section of the project by filling an additional 0.55 acres wetlands and reduce impacts by 0.24 acres at the B section because wetland fill has been reduced from .3 acres to .1 acres and excavation of wetlands has been reduced from .09 acres to .05 acres.

This modification request was coordinated with the appropriate State and Federal agencies and the coordination revealed no objections to this modification request. Therefore, the permit is hereby modified in accordance with the specific work activities described above and in the enclosed plans. It is understood that all conditions of the original permit remain applicable and that the expiration date is unchanged. In addition, the permittee will comply with the following special permit conditions:

- a. All work authorized by this permit modification must be performed in strict compliance with the attached work plans, which are part of this permit. Any modification to the permit plans must be approved by USACE prior to implementation.

b. Special condition t. of the original permit referenced above is hereby modified as follows: Compensatory mitigation for the unavoidable impacts to 4.66 acres of riparian wetlands and 246 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated May 25, 2010, from William D Gilmore, EEP Director. Pursuant to the Tri-Party Memorandum of Agreement (MOA) between the NC Department of Environment and Natural Resources, the NC Department of Transportation and the US Army Corps of Engineers executed on March 8, 2007, and in accordance with Section X of Amendment No. 2 to the MOA, the EEP will provide 9.32 acres of restoration equivalent riparian wetlands and 492 linear feet of restoration equivalent warm water stream channel in the Pasquotank River Basin (Hydrologic Cataloging Unit 03010205). 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.

c. 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.

Any questions regarding this correspondence may be directed to Mr. Bill Biddlecome, NCDOT Coordinator/Regulatory Project Manager at the Washington Regulatory Field Office, telephone (910) 251-4558. The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located online at <http://per2.nwp.usace.army.mil/survey.html>.

Sincerely,



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

Attachment

Copies Furnished (without attachment):

Ms. Cathy Brittingham
Division of Coastal Management
1638 Mail Service Center
Raleigh, North Carolina 27699-1638

Mr. David Wainwright
Water Quality Section
North Carolina Division of Environment
and Natural Resources
1650 Mail Service Center
Raleigh, North Carolina 27699-1650

Mr. Jim Hoadley
Division of Coastal Management
1367 U.S. Highway 17 South
Elizabeth City, North Carolina 27909

Permit Class
MODIFICATION/MINOR

216

Permit Number
03-09

STATE OF NORTH CAROLINA
Department of Environment and Natural Resources
and
Coastal Resources Commission

Permit

for

Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

Excavation and/or filling pursuant to NCGS 113-229

Issued to N.C. Department of Transportation, 1598 Mail Service Center, Raleigh, NC 27699-1598

Authorizing development in Camden County at unnamed tributary to the Pasquotank River,
US 158 widening, as requested in the permittee's application letters dated 5/21/10 with e-mails
dated 6/10/10 & 6/30/10, incl. the attached workplan drawings (25) as described in Condition No. 1 below.

This permit, issued on 7/1/10, is subject to compliance with the application (where consistent
with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may
be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

- 1) Unless specifically altered herein, all work authorized by this permit modification shall be carried out
in accordance with the attached workplan drawings (25): 7 dated 5/2010; 2 dated 8/12/2009; and 16
dated received 6/30/2010.
- 2) Unless specifically altered herein, this minor modification authorizes the following: an additional
0.55 acres of permanent fill in wetlands at Site 8 and Site 10 of the R-2414A section to correct the
roadway grade elevations; a reduction of the permanent wetland impacts at Site 3 of the R-2414B-
section; replacement of the existing 24" pipe at Site 4 of the R-2414B-section; installation of a water
line(s) at Sites 3, 5, 6 and 7 of the R-2414B-section; and installation of a forced main sewer at Site 3
of the R-2414B section.

(See attached sheet for Additional Conditions)

This permit action may be appealed by the permittee or
other qualified persons within twenty (20) days of the issuing
date. An appeal requires resolution prior to work initiation or
continuance as the case may be.

This permit must be accessible on-site to Department
personnel when the project is inspected for compliance.

Any maintenance work or project modification not covered
hereunder requires further Division approval.

All work must cease when the permit expires on

No expiration date, pursuant to GS 136-44.7B

In issuing this permit, the State of North Carolina agrees
that your project is consistent with the North Carolina Coastal
Management Program.

Signed by the authority of the Secretary of DENR and the
Chairman of the Coastal Resources Commission.



James H. Gregson, Director
Division of Coastal Management

This permit and its conditions are hereby accepted.

Signature of Permittee

ADDITIONAL CONDITIONS

- 3) In accordance with commitments made by the permittee, no in-water work shall be conducted between February 15th to June 15th of any year without prior approval of the N.C. Division of Coastal Management (DCM), in consultation with the N.C. Wildlife Resources Commission (WRC).
- 4) All pipe and culvert bottoms shall be buried at least one foot below normal bed elevation when they are placed within the Public Trust Area of Environmental Concern (AEC) as designated by the Coastal Area Management Act (CAMA). Culverts placed in wetlands are not subject to this burial requirement.
- 5) Fill slopes in wetlands and Waters of the State shall be 3:1 or steeper.
- 6) The changes authorized by this minor modification shall not result in any additional permanent or temporary impacts to Coastal Wetlands.

NOTE: The changes authorized by this minor modification will increase the project's total permanent wetland impacts by 0.31 acres (0.55 acres of new impacts and 0.24 acres of reduced impacts).

NOTE: In accordance with the Ecosystem Enhancement Program (EEP) letter dated 5/25/10, compensatory mitigation for permanent impacts of 4.66 acres of riparian wetlands and 247 linear feet of stream associated with the authorized project shall be provided by the EEP.

- 7) Any relocation of utility lines that is not specifically depicted on the attached workplan drawings, or specifically described within the attached permit application, shall require approval from DCM, either under the authority of this permit, or by the utility company obtaining separate authorization.
- 8) Directional boring shall not be used for utility relocations, except as authorized by this modification.
- 9) The N.C. Division of Water Quality authorized a modification of the proposed project on 6/28/10 under Water Quality Certification No. 003774 (DWQ Project No. 20081602 v.2). Any violation of the Certification approved by DWQ shall be considered a violation of this CAMA permit.
- 10) This permit does not eliminate the need to obtain any additional state, federal or local permits, approvals or authorizations that may be required.
- 11) This minor modification shall be attached to the original of Permit No. 03-09, which was issued on 1/12/09, as well as the subsequent letter of refinement, and copies of all documents shall be readily available on site when a Division representative inspects the project for compliance.
- 12) All conditions and stipulations of the active permit remain in force under this minor modification unless altered herein.

NOTE: The U.S. Army Corps of Engineers has assigned the proposed project COE Action ID. No. 199402124.

Permit Class
NEW

Permit Number
03-09

STATE OF NORTH CAROLINA **218**
Department of Environment and Natural Resources
and
Coastal Resources Commission

Permit

for

X Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

X Excavation and/or filling pursuant to NCGS 113-229

Issued to N.C. Department of Transportation, 1598 Mail Service Center, Raleigh, NC 27699-1598

Authorizing development in Camden County at unnamed tributary to the Pasquotank River,
US 158 widening, as requested in the permittee's application dated 10/14/08 (MP-1 and MP-2)
and 10/24/08 (MP-5), including the attached workplan drawings (121) as referenced in Condition No. 1 of this permit.

This permit, issued on 1/12/09, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

TIP No. R-2414, Roadway Widening

- 1) All work authorized by this permit shall be carried out in accordance with the following attached workplan drawing(s), except as modified herein.

Permit drawings (R-2414A): 22 sheets dated 6/18/08, 6 sheets dated 3/3/08; 3 sheets undated

Permit drawings (R-2414B): 2 sheets dated 6/20/08; 3 sheets dated 4/21/08; 18 sheets dated 6/18/08; 3 sheets undated; 5 sheets dated 6/16/08

Utility drawings (R-2414A): 12 sheets dated 4/7/08, 1 sheet dated 7/3/08

Utility drawings (R-2414B): 12 sheets dated 5/14/08; 2 sheets dated 7/3/08

Roadway Design drawings (R-2414A): 17 sheets dated 2/22/08; 1 sheet dated 3/4/08

Roadway Design drawings (R-2414B): 13 sheets dated 5/13/08; 1 sheet dated 5/14/08

(See attached sheets for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date. An appeal requires resolution prior to work initiation or continuance as the case may be.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.

Any maintenance work or project modification not covered hereunder requires further Division approval.

All work must cease when the permit expires on

No expiration date, pursuant to GS 136-44.7B

In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.

Signed by the authority of the Secretary of DENR and the Chairman of the Coastal Resources Commission.

Douglas V. Haggitt for

James H. Gregson, Director
Division of Coastal Management

This permit and its conditions are hereby accepted.

E. P. Luske

Signature of Permittee

ADDITIONAL CONDITIONS

- 2) In accordance with commitments made by the permittee, no in-water work shall be conducted between February 15th to June 15th of any year without prior approval of the N.C. Division of Coastal Management (DCM), in consultation with the N.C. Wildlife Resources Commission (WRC).
- 3) All pipe and culvert bottoms shall be buried at least one foot below normal bed elevation when they are placed within the Public Trust Area of Environmental Concern (AEC) as designated by the Coastal Area Management Act (CAMA). Culverts placed in wetlands are not subject to this burial requirement.
- 4) Wetlands shall not be crossed in transporting equipment to the project site, without prior approval from DCM.
- 5) Fill slopes in wetlands and Waters of the State shall be 3:1 or steeper.
- 6) In accordance with commitments made by the permittee, all clearing within wetlands shall be accomplished by hand clearing only. Any other method of clearing within wetlands shall require additional approval from the Division.
- 7) There shall be no clearing of wetlands outside of the areas indicated on the attached workplan drawings, without prior approval from the Division.
- 8) No excavation shall take place at any time in any vegetated wetlands or surrounding waters outside of the alignment of the areas indicated on the attached workplan drawings, without permit modification.
- 9) Material excavated may be used in fill areas associated with the project once properly dewatered or shall be removed from the site and taken to a high ground location.
- 10) The temporary placement or double handling of excavated and/or fill materials within waters or vegetated wetlands is not authorized.
- 11) No excavated or fill material shall be placed at any time in any vegetated wetlands or surrounding waters outside of the alignment of the fill area indicated on the attached workplan drawings.
- 12) All excavated materials shall be confined above normal water level and landward of regularly or irregularly flooded wetlands behind adequate dikes or other retaining structures to prevent spillover of solids into any wetlands or surrounding waters.
- 13) All fill material shall be clean and free of any pollutants, except in trace quantities.
- 14) Placement of riprap shall be limited to the areas as depicted on the attached workplan drawings. The riprap material shall be free from loose dirt or any pollutant. The riprap material shall consist of clean rock or masonry materials such as but not limited to granite or broken concrete.
- 15) Live concrete shall not be allowed to contact the water in or entering into tributaries of the Pasquotank River, or the adjacent wetlands.
- 16) Construction staging areas shall be located only in upland areas, and not in wetlands or Waters of the State.

ADDITIONAL CONDITIONS

- 17) All materials and debris associated with the removal and/or construction of the existing and/or new bridge (including deck components), culverts, roadway asphalt, other existing structures within the Right-of-Way as authorized by this permit and associated materials shall not enter wetlands or Waters of the State, even temporarily. Any such material shall be disposed of at an approved upland site or shall be recycled in an environmentally appropriate manner provided appropriate authorizations from any relevant state, federal, or local authorities are obtained.
- 18) Unless specifically altered herein, any mitigative measures or environmental commitments specifically made by the permittee in the CAMA permit application and/or the Environmental Assessment and Programmatic Section 4(f) Evaluations dated 8/29/97, shall be implemented, regardless of whether or not such commitments are addressed by individual conditions of this permit.

Bridge Construction

- 19) Construction or removal of the temporary construction sheeting is prohibited while the moratorium referenced in Condition No. 2 of this permit is in effect without prior approval of the Division, in consultation with WRC.
- 20) The bridge shall be constructed using top down construction methodologies. Any other construction method shall require additional authorization from the Division.
- 21) The installation practice for the bridge piles and temporary construction sheeting shall be accomplished by driving and/or vibratory hammer. Should the permittee and/or its contractor determine that another type of installation, such as jetting or drilled shaft construction, is preferred, additional authorization from DCM shall be required.
- 22) The permittee did not propose the use of deck drains in the permit application package. Any future proposal to utilize deck drains shall require additional authorization from DCM.

Compensatory Mitigation**NOTE:**

Impacts to wetlands and Waters of the State due to this project are as follows:

- **CAMA Coastal Wetlands:** Permanent impacts of approximately 0.06 acres due to fill; temporary impacts of approximately 0.07 acres due to hand clearing for the roadway work; and temporary impacts of approximately 0.18 acres due to hand clearing for utility work. (Within the hand clearing areas, approximately 0.02 acres will also be temporarily impacted by erosion control measures for the roadway work.)
- **Riparian wetlands:** Permanent impacts of approximately 4.29 acres (4.19 acres due to fill and 0.10 acres due to excavation); temporary impacts of approximately 3.73 acres due to hand clearing for the roadway work; and temporary impacts of approximately 6.43 acres due to hand clearing for utility work. (Within the hand clearing areas, approximately 0.77 acres will also be temporarily impacted by erosion control measures for the roadway work.)
- **Streams:** Permanent impacts of approximately 297 linear feet; and temporary impacts of approximately 174 linear feet.
- **Surface waters:** Permanent impacts of approximately 0.11 acres; and temporary impacts of approximately 0.11 acres.

ADDITIONAL CONDITIONS

NOTE: In accordance with the Ecosystem Enhancement Program (EEP) letter dated 7/14/08, compensatory mitigation for permanent impacts of 4.35 acres of riparian wetlands and 247 linear feet of stream associated with the authorized project shall be provided by the EEP. In accordance with the permit application, compensatory mitigation for permanent stream impacts associated with the authorized project also includes on-site mitigation for 50 linear feet of stream impacts at the culvert-to-bridge replacement location at Site 11 within TIP No. R-2414A.

- 23) The permittee shall develop a compensatory mitigation plan for permanent impacts to 0.06 acres (approximately 2,614 square feet) of CAMA Coastal Wetlands as defined by 15A NCAC 07H .0205. The compensatory mitigation plan shall include a minimum of 1.1 restoration of CAMA Coastal Wetlands as defined by 15A NCAC 07H .0205. The mitigation shall be in-kind, i.e. the targeted species composition of the restored wetlands shall approximate the species composition of the impacted wetlands. The mitigation shall be implemented and in place within 3 years of the issuance of this permit. The CAMA coastal wetland species impacted by this project are *Scirpus* and *Typha*.
- 24) Due to the possibility that compaction, mechanized clearing and/or other site alterations might prevent the temporary Coastal Wetland impact areas from re-attaining pre-project wetland functions, the permittee shall provide an annual update on the Coastal Wetland areas temporarily impacted by this project. This annual update shall consist of photographs and a brief written report on the progress of these temporarily impacted areas in re-attaining their pre-project wetland functions. Within three years after project completion, the permittee shall hold an agency field meeting with DCM to determine if the Coastal Wetland areas temporarily impacted by this project have re-attained pre-project wetland functions. If at the end of three years DCM determines that the Coastal Wetland areas temporarily impacted by the project have not re-attained pre-project wetland functions, DCM will determine whether compensatory wetland mitigation shall be required.

Sedimentation and Erosion Control

- 25) Turbidity curtains and silt fences shall be used to isolate all work areas from the tributary to the Pasquotank River at Site 11 on R-2414A, including installation of bridge piles and temporary construction sheeting, placement of riprap, excavation or filling. The turbidity curtains shall be installed parallel to the banks on each side of the tributary. The turbidity curtains shall extend past the construction limits and be attached to the silt fences containing the work site. The turbidity curtains shall be of sufficient length and effectiveness to prevent a visible increase in the amount of suspended sediments in adjacent waters. The turbidity curtains shall not fully encircle the work area or extend across the tributary. The turbidity curtains shall be properly maintained and retained in the water until construction is complete and all of the work area contained by the turbidity curtains has been stabilized by vegetation or other means. The turbidity curtains shall be removed when turbidity within the curtains reaches ambient levels.
- 26) The permittee shall follow "Best Management Practices for the Protection of Surface Waters"
- 27) This project shall conform to all requirements of the NC Sedimentation Pollution Control Act and NC DOT's Memorandum of Agreement with the Division of Land Resources.
- 28) In order to protect water quality, runoff from construction shall not visibly increase the amount of suspended sediments in adjacent waters.

ADDITIONAL CONDITIONS

- 29) Appropriate sedimentation and erosion control devices, measures or structures shall be implemented to ensure that eroded materials do not enter adjacent wetlands, watercourses and property (e.g. silt fence, diversion swales or berms, etc.).

Stormwater Management

- 30) The N.C. Division of Water Quality (DWQ) confirmed in a letter dated 11/21/08 that the subject project is excluded from State Stormwater permitting requirements as set forth in Section 2(d)(1) of Session Law 2008-211, effective October 1, 2008, and the stormwater rules under Title 15A NCAC 2H .1000, as amended.

Historical and Cultural Resource Protection

- 31) In accordance with Environmental Commitments contained within the Finding of No Significant Impact and Programmatic Section 4(f) Evaluations dated 7/13/98, the permittee shall move the Creekmore Store to the rear of its property for mitigation purposes. The permittee shall coordinate with the State Historic Preservation Officer prior to construction so that measures are taken to preserve the historic character of the Creekmore Store.
- 32) In accordance with Environmental Commitments contained within the Finding of No Significant Impact and Programmatic Section 4(f) Evaluations dated 7/13/98, the permittee shall avoid impacting the Sawyer Graveyard.

General

- 33) Any relocation of utility lines that is not specifically depicted on the attached workplan drawing(s), or specifically described within the attached permit application, shall require approval from DCM, either under the authority of this permit, or by the utility company obtaining separate authorization.
- 34) Directional boring shall not be used for utility relocations. All utilities shall be relocated aerially
- 35) No attempt shall be made by the permittee to prevent the full and free use by the public of Causeway Park, George M. Wood Memorial Park and all navigable waters at or adjacent to the authorized work following completion of construction activities.
- 36) During project construction, the permittee shall make every attempt to maintain use by the public of Causeway Park, George M. Wood Memorial Park and all navigable waters at or adjacent to the authorized work. If this is not possible, then adequate notice shall be provided to the public that use of Causeway Park, George M. Wood Memorial Park and/or all navigable waters at or adjacent to the authorized work will be limited during construction. The notice shall include an estimate of the amount of time that the limited use will occur.
- 37) The permittee shall exercise all available precautions in the day-to-day operation of the facility to prevent waste from entering the adjacent wetlands and Waters of the State.


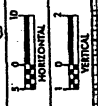
ADDITIONAL CONDITIONS

- 38) If it is determined that additional permanent and/or temporary impacts (such as but not limited to temporary access roads or detours) are necessary that are not shown on the attached workplan drawings or described in the authorized permit application, a permit modification and/or additional authorization from DCM shall be required. In addition, any changes in the approved plan, such as the removal of Underground Storage Tanks, may also require a permit modification and/or additional authorization from DCM. The permittee shall contact a representative of DCM prior to commencement of any such activity for this determination and any permit modification.
- 39) Development authorized by this permit shall only be conducted within NCDOT Right-of-Ways and/or easements.
- 40) The permittee and/or his contractor shall contact the DCM Transportation Project Coordinator in Elizabeth City at (252) 264-3901 to request a preconstruction conference prior to project initiation.
- 41) The N.C. Division of Water Quality has authorized the proposed project under Water Quality Certification No. 003774 (DWQ Project No. 20081602), which was issued on 12/18/08. Any violation of the Certification approved by DWQ shall be considered a violation of this CAMA permit.
- 42) Approval from the N.C. Division of Environmental Health Public Water Supply Plan Review Section is required for the relocation/modification of existing water mains prior to construction. If NCDOT specifications are to be used, only plan submittal and approval is required.

NOTE: The U.S. Army Corps of Engineers has assigned the proposed project COE Action ID No. 199402124.

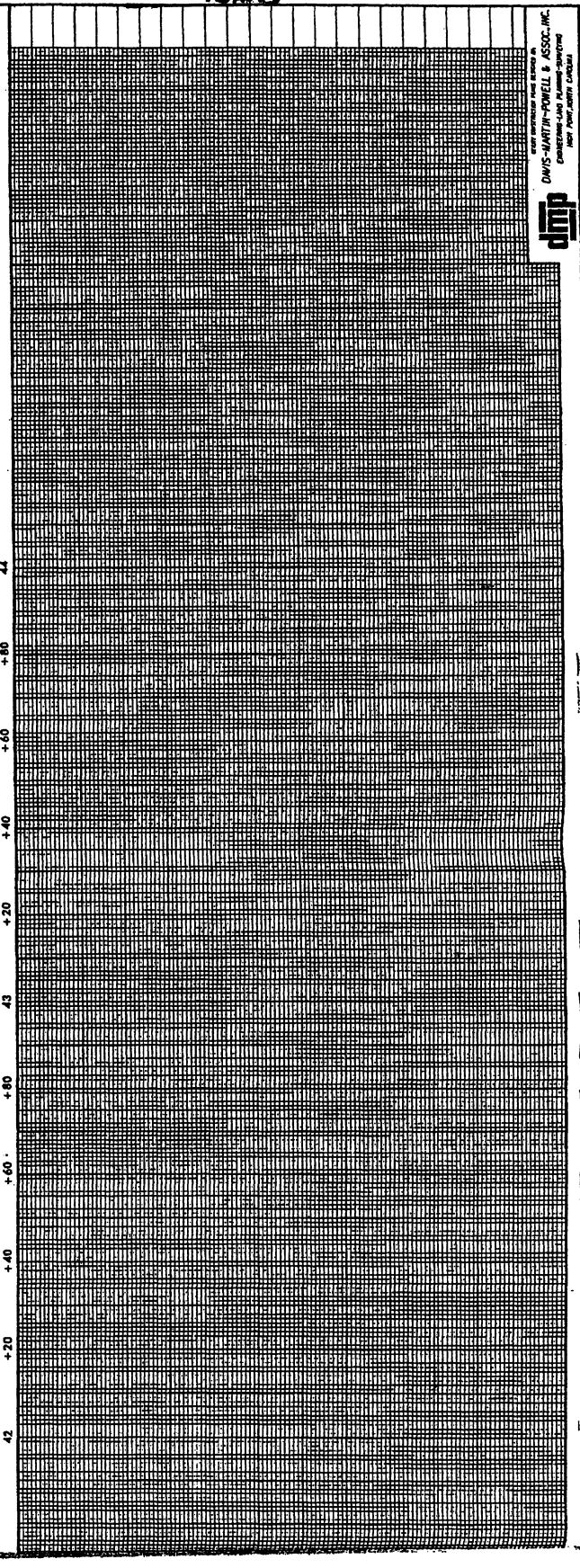
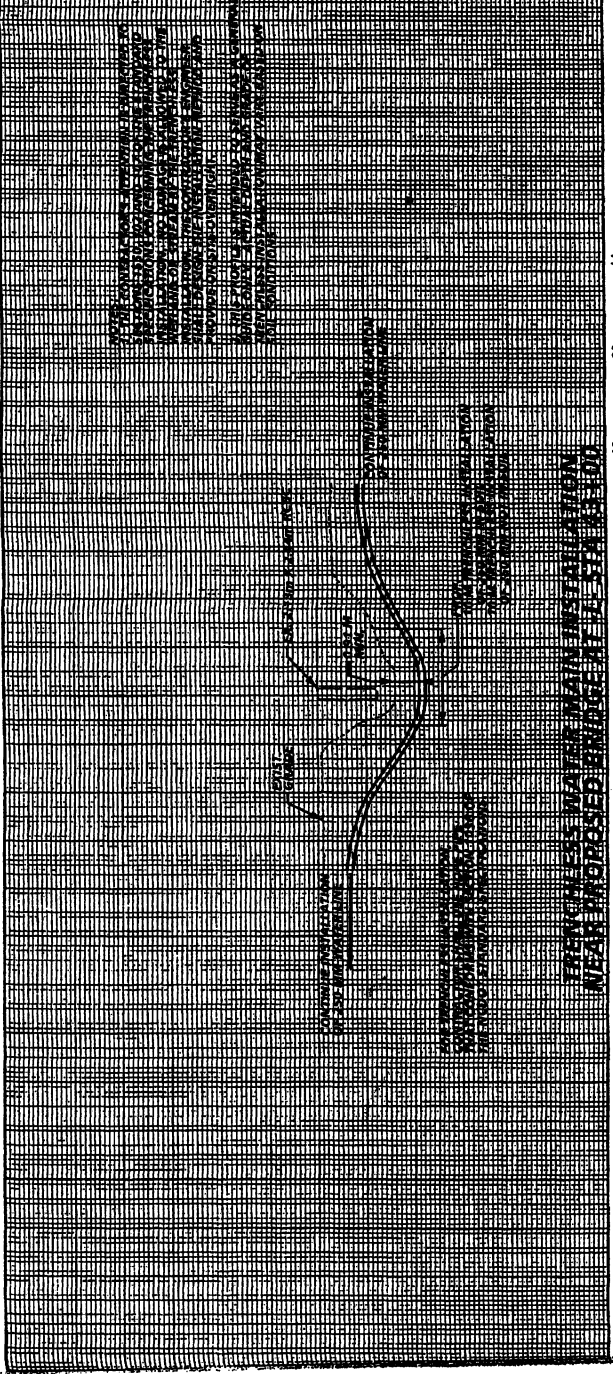
NOTE: This permit does not eliminate the need to obtain any additional state, federal or local permits, approvals or authorizations that may be required.

PROJECT REFERENCE NO. UC-8
 SHEET NO. UC-8
 DESIGNED BY: DMP
 DRAWN BY: DMP
 CHECKED BY: DMP
 APPROVED BY: DMP
 REVISION:

NORTH CAROLINA
 DEPARTMENT OF
 TRANSPORTATION
 TRAFFIC DIVISION
 PHONE: 919/286-4111
 FAX: 919/286-4117

UTILITY CONSTRUCTION
 PLANS ONLY





North Carolina Department of Environment and Natural Resources

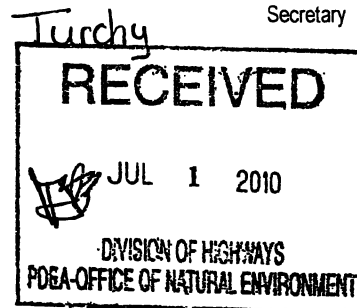
Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

June 28, 2010

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



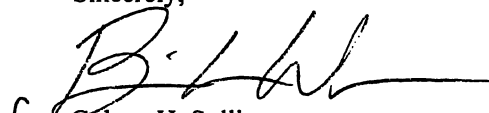
Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to US 158/NC 34 from East of the Pasquotank River to the US 158/NC 34 split in Camden County, Federal Aid Project No. STP-158(2), TIP R-2414A and R-2414B.
DWQ Project No. 20081602 v.2
WQC No. 003774

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 003774 issued to The North Carolina Department of Transportation dated December 18, 2008 and the corresponding correction issued June 1, 2009

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

Sincerely,


for Coleen H. Sullins
Director

Attachments

cc: Bill Biddlecome, US Army Corps of Engineers, Washington Field Office
Jerry Jennings, PE, Division 1 Engineer
Clay Willis, Division 1 Environmental Officer
Chris Militscher, Environmental Protection Agency (electronic copy only)
Travis Wilson, NC Wildlife Resources Commission (electronic copy only)
Cathy Brittingham, Division of Coastal Management
Garcy Ward, DWQ Washington Regional Office
File Copy

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

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

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H .0500. This certification authorized the NCDOT to impact 2.38 acres of jurisdictional wetlands (a net increase of 0.31 acres) in Camden County. This certification does not authorize any further impacts to streams other than those approved in the original certification dated December 18, 2008. The project shall be constructed pursuant to the modification dated received May 27, 2010. The authorized impacts are as described below:

Wetland Impacts in the Pasquotank River Basin

R-2414A							
ORIGINAL IMPACTS APPROVED							
Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	7+00 -L-	0.01	0	0	0	0.19	0.20
2	10+75 -L- LT	0	0	0	0	0.07	0.07
3	12+30 -L- RT	0.01	0	0	0	0.18	0.19
4	13+80 - 14+63 -L-	0.03	0	0	0	0.34	0.37
5	15+60 - 15+75 -L- LT	0.01	0	0	0	0.07	0.08
6	16+62 - 18+17 -L- RT	0.02	0	0	0	2.00	2.02
7	16+79 - 23+30 -L- LT	0.12	0	0	0	0.54	0.66
8	20+16 - 43+00 -L- RT	1.46	0	0	0	1.96	3.42
9	24+50 - 25+12 -L- LT	0.01	0	0	0	0.04	0.05
10	25+90 - 42+90 -L- LT	0.18	0	0	0	4.08	4.26
11	43+10 -L-	0	0	0	0	0.01	0.01
TOTAL:		1.85	0.00	0.00	0.00	9.48	11.33
IMPACTS APPROVED WITH THIS MODIFICATION							
Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	7+00 -L-	0.01	0	0	0	0.19	0.20
2	10+75 -L- LT	0	0	0	0	0.07	0.07
3	12+30 -L- RT	0.01	0	0	0	0.18	0.19

4	13+80 - 14+63 -L-	0.03	0	0	0	0.34	0.37
5	15+60 - 15+75 -L- LT	0.01	0	0	0	0.07	0.08
6	16+62 - 18+17 -L- RT	0.02	0	0	0	2.00	2.02
7	16+79 - 23+30 -L- LT	0.12	0	0	0	0.54	0.66
8	20+16 - 43+00 -L- RT	1.90	0	0	0	1.52	3.42
9	24+50 - 25+12 -L- LT	0.01	0	0	0	0.04	0.05
10	25+90 - 42+90 -L- LT	0.29	0	0	0	3.97	4.26
11	43+10 -L-	0	0	0	0	0.01	0.01
TOTAL:		2.40	0.00	0.00	0.00	8.93	11.33
DIFFERENCE:		+0.55	0.00	0.00	0.00	-0.55	0.00

R-2414B

ORIGINAL IMPACTS APPROVED

Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	-L- 47+82 LT/47+94 RT	0	0	0	0	0.01	0.01
2	-L- 51+60/51+95 RT	0.09	0	0	0	0.05	0.14
3	-L- 55+12 LT/56+49 RT	0.65	0	0	0	0.26	0.91
3	-L- 57+44/59+44 RT	0.30	0	0.09	0	0	0.39
4	-L- 62+65 LT/62+94 RT	0.06	0	0	0	0.04	0.10
5	-L- 67+19 LT/67+70 RT	0.08	0	0	0	0.06	0.14
6	-L- 72+48 LT/74+48 RT	0.85	0	0.01	0	0.37	1.23
7	-L- 88+60/89+28 LT	0.38	0	0	0	0.16	0.54
TOTAL:		2.41	0.00	0.10	0.00	0.95	3.46

IMPACTS APPROVED WITH THIS MODIFICATION

Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	-L- 47+82 LT/47+94 RT	0	0	0	0	0.01	0.01
2	-L- 51+60/51+95 RT	0.09	0	0	0	0.05	0.14
3	-L- 55+12 LT/56+49 RT	0.65	0	0	0	0.26	0.91
3	-L- 57+44/59+44 RT	0.10	0	0.05	0	0	0.15
4	-L- 62+65 LT/62+94 RT	0.06	0	0	0	0.04	0.1
5	-L- 67+19 LT/67+70 RT	0.08	0	0	0	0.06	0.14
6	-L- 72+48 LT/74+48 RT	0.85	0	0.01	0	0.37	1.23
7	-L- 88+60/89+28 LT	0.38	0	0	0	0.16	0.54
TOTAL:		2.21	0.00	0.06	0.00	0.95	3.22

DIFFERENCE:		-0.20	0.00	-0.04	0.00	0.00	-0.24
TOTAL PERMITTED IMPACTS FOR PROJECT							
TOTAL FOR R-2414A:		2.40	0.00	0.00	0.00	8.93	11.33
TOTAL FOR R-2414B:		2.21	0.00	0.06	0.00	0.95	3.22
PROJECT TOTAL:		4.61	0.00	0.06	0.00	9.88	14.55

* Totals include areas to be hand cleared for utility relocations

Total Wetland Impact for Project: 14.55 acres.

Additional Impacts Requiring Mitigation: 0.31 acres

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

This approval is only valid for the purpose and design that you submitted in your modified application dated received May 27, 2010. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated December 18, 2008, as well as the correction letter dated June 1, 2009, still apply except where superceded by this certification. 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.

Condition(s) of Certification:

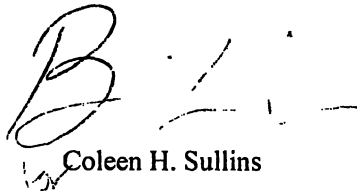
- 1 All other conditions written into previous Water Quality Certifications issued December 18, 2008 and the correction letter dated June 1, 2009 for this project still apply
2. Compensatory mitigation for impacts to 0.31 acres riparian wetlands is required. We understand that you have chosen to perform 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 May 25, 2010 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

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 28th day of June 2010

DIVISION OF WATER QUALITY



Coleen H. Sullins

WQC No. 003774
Director



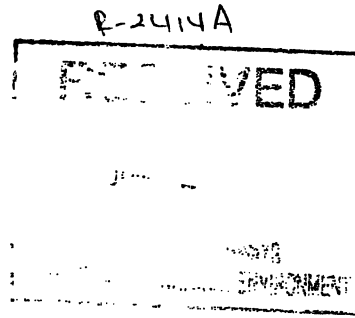
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North Carolina Department of Environment and Natural Resources

Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary



June 1, 2009

Dr. Greg Thorpe, PhD., Branch Manager
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina, 27699-1548

Subject: Correction to 401 Water Quality Certification for US 158/NC 34 from East of the Pasquotank River to the US 158/NC 34 split in Camden County, DWQ Project No. 20081602.
WQC No. 003774

Dear Dr. Thorpe:

This letter is in regards to the 401 Water Quality Certification (WQC) issued on December 18, 2008 for US 158/NC 34 in Camden County (DWQ Project No. 20081602). Condition 6 of the WQC issued on December 18, 2008 contains the following language:

“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 February 15 and June 15 of any year, without prior approval from the NC Division of Water Quality and the NC Wildlife Resources Commission. In addition, the permittee shall conform to the NCDOT policy entitled “Stream Crossing Guidelines for Anadromous Fish Passage (May 12, 1997) at all times.”

This language is hereby corrected to read as follows:

“Except at permit Site 11, 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 February 15 and June 15 of any year, without prior approval from the NC Division of Water Quality and the NC Wildlife Resources Commission. At Site 11 the NCWRC has suggested, and the DWQ has agreed, that the necessary dewatering dikes required for construction at Site 11 may remain in place through this moratorium. These dikes shall not be placed, modified, or removed during the specified moratorium. In addition, the permittee shall conform to the NCDOT policy entitled “Stream Crossing Guidelines for Anadromous Fish Passage (May 12, 1997) at all times.”

Please attach a copy of this letter with any copies of the original Water Quality Certification. All other conditions written into the previous Water Quality Certification for this project dated December 18, 2008 still apply except where superceded by this correction. We are sorry for any inconvenience this may have caused. If you have any questions please contact David Wainwright at (919) 715-3415.

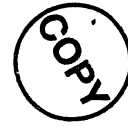
Sincerely,

Coleen H. Sullins,
Director

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



cc: Bill Biddlecome, US Army Corps of Engineers, Washington Field Office
Jerry Jennings, PE, Acting Division 1 Engineer
Clay Willis, Division 1 Environmental Officer
Kathy Matthews, Environmental Protection Agency
Chris Militscher, Environmental Protection Agency
Travis Wilson, NC Wildlife Resources Commission
Gary Jordan, US Fish and Wildlife Service
Cathy Brittingham, Division of Coastal Management
Garcy Ward, DWQ Washington Regional Office
File Copy



DEPARTMENT OF THE ARMY PERMIT

Permittee **North Carolina Department of Transportation, Dr. Gregory Thorpe**

Permit No. **SAW 1994-02124**

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 TIP project R-2414 A & B involves the widening of an existing two lane road facility to a multi-lane facility for approximately 5.5 miles. The project would permanently impact 4.35 acres of wetlands, 0.11 acres of surface waters and 296 linear feet of stream. The project would temporarily impact 10.41 acres of wetlands and 174 linear feet of stream.**

Project Location: **This project is located along US 158/NC 34 just east of the Pasquotank River to the US 158/NC 34 split in Belcross, adjacent to the Pasquotank River and unnamed tributaries to the Pasquotank River and Sawyers Creek in Camden County, North Carolina.**

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.

SPECIAL CONDITIONS (Action ID. 199402124; NCDOT/TIP R-2414A&B)

COMPLIANCE WITH PLANS



a) 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

b) 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

c) The permittee will ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Written verification shall be provided that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. Any deviation in the construction design plans will be brought to the attention of the Corps of Engineers, Washington Regulatory Field Office prior to any active construction in waters or wetlands.

d) 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

e) 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

f) 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

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

IN-WATER MORATORIUM

h) A construction moratorium for anadromous and resident fisheries from February 15 through June 15 of any year will be adhered to for in-water work.

i) The permittee will follow NCDOT adopted anadromous fish stream crossing guidelines.

CONTRACTOR COMPLIANCE

j) 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

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

in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

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

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

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

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

REPORTING OF VIOLATIONS

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

COMPLIANCE WITH SPECIAL CONDITIONS

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

WET CONCRETE

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

CULVERTS

o) All authorized culverts will be installed to allow the passage of low stream flows and the continued movement of fish and other aquatic life as well as to prevent headcutting of

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

PRECONSTRUCTION MEETING

p) 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

q) To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent wetlands and streams, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The permittee shall provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as the permittee has that information. The permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any streams or wetlands. All jurisdictional wetland boundaries on borrow and waste sites shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The permittee shall ensure that all such areas comply with Special Condition b) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites

associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the Special Condition b). All information will be available to the Corps of Engineers upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

SECTION 106 (NATIONAL HISTORIC PRESERVATION ACT)

r) Project construction shall not commence for section B of the project until NCDOT has completed all the requirements and implemented the stipulations agreed to by NCDOT, State Historic Preservation Office (SHPO) and the Federal Highway Administration (FHWA) regarding the relocation of the Creekmore Store which is to be relocated to the rear of the property away from US 158/NC 34.

s) NCDOT will avoid impacting the Sawyer Graveyard. NCDOT will mark the graveyard prior to beginning construction activities with orange protective fencing.

EEP MITIGATION

t) Compensatory mitigation for the unavoidable impacts to 4.35 acres of riverine wetlands and 246 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated July 14, 2008 from William D Gilmore, EEP Director. 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 8.7 acres of restoration equivalent riverine wetlands and 492 linear feet of restoration equivalent warm water stream channel in the Pasquotank River basin (Hydrologic Cataloging Unit 03010205) by one year of the date of this permit. 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.



RECEIVED
Division of Highways

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

JAN 26 2009

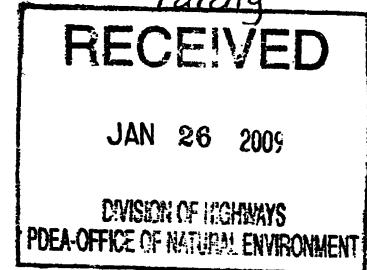
Beverly Eaves Perdue, Governor

James H. Gregson, Director

Preconstruction
Dee Freeman, Secretary
Project Development and
Environmental Analysis Branch

January 21, 2009

Gregory J. Thorpe, Ph.D.
Project Development and Environmental Analysis
N.C. Department of Transportation
1598 Mail Service Center
Raleigh, NC 27699-1548



RE: Letter of Refinement, CAMA Major Development Permit No. 03-09, Widening of US 158/NC 34 from East of Pasquotank River to the US 158/NC 34 split, Camden County, TIP No. R-2414.

Dear Dr. Thorpe:

This letter is in response to the N.C. Department of Transportation's (NCDOT's) attached e-mail dated 1/14/09 and attached memorandum dated 1/16/09, including the attached workplan drawings (2): 1 dated 10/14/08; and 1 dated 10/15/08.

Please be advised that through this **Letter of Refinement**, DCM conveys its determination that the above referenced request is consistent with existing State rules and regulations and is in keeping with the original purpose and intent of CAMA Permit No. 03-09 with the following conditions:

1. Condition Number 34 is hereby modified as follows: "34) The 10" water line at Site 11 on R-2414A shall be relocated by directional boring. All other utilities shall be relocated aerially."
2. Entry and exit points of the directional boring activity, including disposal of material from the drilling activity, shall be outside of all wetlands and Waters of the State.
3. NCDOT shall debit 0.6 acres of CAMA Coastal Wetland restoration credits from the Ballance Farm Mitigation Site in Currituck County.
4. Condition Number 20 is hereby modified as follows: "The bridge shall be constructed using staged construction or top down construction methodologies. Any other construction method shall require additional authorization from the Division."
5. This Letter of Refinement does not eliminate the need to obtain any additional state, federal or local permits, approvals or authorizations that may be required.

1638 Mail Service Center, Raleigh, North Carolina 27699-1638
Phone: 919-733-2293 \ FAX: 919-733-1495 \ Internet: <http://dcm2.enr.state.nc.us>

6. This Letter of Refinement shall be attached to the original of CAMA Permit No. 03-09, which was issued on 1/12/09, and both documents shall be readily available on site when a N.C. Division of Coastal Management (DCM) representative inspects the project for compliance.
- 7 All conditions and stipulations of the active permit remain in force under this Letter of Refinement unless altered herein.

Please contact Jim Hoadley or Cathy Brittingham if you have any questions or concerns. Jim can be reached at (252) 264-3901 or via e-mail at Jim.Hoadley@ncmail.net. Cathy can be reached at (919) 733-2293 x238 or via e-mail at Cathy.brittingham@ncmail.net.

Sincerely,



Doug Huggett
Major Permits and Consistency Coordinator

Cc: Michael Turchy, NCDOT
Bill Biddlecome, USACE
David Wainwright, NCDWQ
Garcy Ward, DWQ
Beth Harmon, EEP
Jim Hoadley, DCM
Cathy Brittingham, DCM



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

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact 14.79 acres of jurisdictional wetlands, and 545 linear feet of jurisdictional streams in Camden County. The project shall be constructed pursuant to the application dated received October 21, 2008. The authorized impacts are as described below:

Stream Impacts in the Pasquotank River Basin

Site	Permanent Fill in Intermittent Stream (linear ft.)	Temporary Fill in Intermittent Stream (linear ft.)	Permanent Fill in Perennial Stream (linear ft.)	Temporary Fill in Perennial Stream (linear ft.)	Total Stream Impact (linear ft.)	Stream Impacts Requiring Mitigation (linear ft.)
R-2414A						
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	75	105	180	0
TOTAL:	0	0	75	105	180	0
R-2414B						
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	121	29	150	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	92	21	113	0
7	0	0	83	19	102	0
TOTAL:	0	0	296	69	365	0
PROJECT TOTAL:	0	0	371	174	545	0

Total Stream Impact for Project: 470 linear feet



Wetland Impacts in the Pasquotank River Basin

Site	Fill (permanent) (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
R-2414A						
1	0.01	0	0	0	0.19	0.20
2	0	0	0	0	0.07	0.07
3	0.01	0	0	0	0.18	0.19
4	0.03	0	0	0	0.34	0.37
5	0.01	0	0	0	0.07	0.08
6	0.02	0	0	0	2.00	2.02
7	0.12	0	0	0	0.54	0.66
8	1.46	0	0	0	1.96	3.42
9	0.01	0	0	0	0.04	0.05
10	0.18	0	0	0	4.08	4.26
11	0	0	0	0	0.01	0.01
TOTAL:	1.85	0.00	0.00	0.00	9.48	11.33
R-2414B						
1	0	0	0	0	0.01	0.01
2	0.09	0	0	0	0.05	0.14
3	0.95	0	0.09	0	0.26	1.3
4	0.06	0	0	0	0.04	0.1
5	0.08	0	0	0	0.06	0.14
6	0.85	0	0.01	0	0.37	1.23
7	0.38	0	0	0	0.16	0.54
TOTAL:	2.41	0.00	0.10	0.00	0.95	3.46
PROJECT TOTAL:	4.26	0.00	0.10	0.00	10.43	14.79

* Totals include areas to be hand cleared for utility relocations

Total Wetland Impact for Project: 14.79 acres.

Total Wetland Impacts Requiring Mitigation: 4.36 acres

The application provides adequate assurance that the discharge of fill material into the waters of the Pasquotank 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 October 21, 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. In accordance with commitments made in your application, mechanized clearing shall not be used for the purpose of clearing vegetation in relocating overhead power lines within jurisdictional wetlands.
2. 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*.
3. 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.
4. Except as noted in Condition #3, the 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.
5. 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.
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 February 15 and June 15 of any year, without prior approval from the NC Division of Water Quality and the NC Wildlife Resources Commission. In addition, the permittee shall conform to the NCDOT policy entitled "Stream Crossing Guidelines for Anadromous Fish Passage (May 12, 1997) at all times.
7. Where the existing culvert at Site 11 on Section A of the project will be removed, the banks shall be graded to match existing bank slopes. Additionally, any open areas shall be planted within two weeks after culvert removal with appropriate vegetation in order to stabilize the banks and surrounding areas.



8. Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods. More specifically, jetting or other methods of pile driving are prohibited unless prior written approval is given by DWQ first.
9. All pile driving or drilling activities shall be enclosed in turbidity curtains unless otherwise approved by DWQ in this certification.
10. Turbidity curtains shall be used to isolate all work areas from the stream at UT to Pasquotank River at Site 11, including pile or casement installation, placement of riprap, excavation or filling. Strict adherence to the Construction and Maintenance Best Management Practices will be required.
11. No utilities shall be relocated into jurisdictional wetland areas.
- * 12. Compensatory mitigation for impacts to 4.36 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 July 14, 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

13. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
14. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
15. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions.
16. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage.
- * 17. The Permittee shall ensure that the final design drawings adhere to the certification and to the drawings submitted for approval.
18. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
19. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
20. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.



21. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
22. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
23. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If DWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, DWQ may reevaluate and modify this certification.
24. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification.
25. A copy of this Water Quality Certification shall be maintained on site at the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
26. The outside buffer, wetland or water boundary located within the construction corridor approved by this 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.
27. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
28. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- * 29. Upon completion of the project (including any impacts at associated borrow or waste site), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed.
30. Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
31. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this 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.
32. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
33. 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*.



34. 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.
35. 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*.
36. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
- 37 Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

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

If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, 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 18th day of December 2008

DIVISION OF WATER QUALITY

Coleen Sullins
Director

WQC No. 003774



North Carolina Department of Environment and Natural Resources

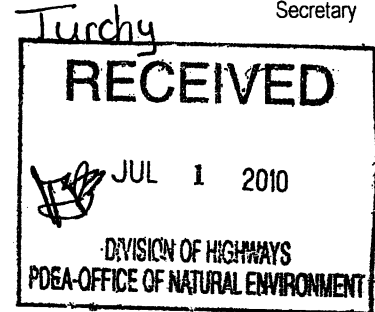
Division of Water Quality
Coleen H. Sullins
Director

249

June 28, 2010

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary



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

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to US 158/NC 34 from East of the Pasquotank River to the US 158/NC 34 split in Camden County, Federal Aid Project No. STP-158(2), TIP R-2414A and R-2414B.
DWQ Project No. 20081602 v.2
WQC No. 003774

Dear Dr Thorpe:

Attached hereto is a modification of Certification No. 003774 issued to The North Carolina Department of Transportation dated December 18, 2008 and the corresponding correction issued June 1, 2009.

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

Sincerely,

for Coleen H. Sullins
Director

Attachments

- cc: Bill Biddlecome, US Army Corps of Engineers, Washington Field Office
- Jerry Jennings, PE, Division 1 Engineer
- Clay Willis, Division 1 Environmental Officer
- Chris Militscher, Environmental Protection Agency (electronic copy only)
- Travis Wilson, NC Wildlife Resources Commission (electronic copy only)
- Cathy Brittingham, Division of Coastal Management
- Garcy Ward, DWQ Washington Regional Office
- File Copy

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



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

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H .0500. This certification authorized the NCDOT to impact 2.38 acres of jurisdictional wetlands (a net increase of 0.31 acres) in Camden County. This certification does not authorize any further impacts to streams other than those approved in the original certification dated December 18, 2008. The project shall be constructed pursuant to the modification dated received May 27, 2010. The authorized impacts are as described below:

Wetland Impacts in the Pasquotank River Basin

R-2414A							
ORIGINAL IMPACTS APPROVED							
Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	7+00 -L-	0.01	0	0	0	0.19	0.20
2	10+75 -L- LT	0	0	0	0	0.07	0.07
3	12+30 -L- RT	0.01	0	0	0	0.18	0.19
4	13+80 - 14+63 -L-	0.03	0	0	0	0.34	0.37
5	15+60 - 15+75 -L- LT	0.01	0	0	0	0.07	0.08
6	16+62 - 18+17 -L- RT	0.02	0	0	0	2.00	2.02
7	16+79 - 23+30 -L- LT	0.12	0	0	0	0.54	0.66
8	20+16 - 43+00 -L- RT	1.46	0	0	0	1.96	3.42
9	24+50 - 25+12 -L- LT	0.01	0	0	0	0.04	0.05
10	25+90 - 42+90 -L- LT	0.18	0	0	0	4.08	4.26
11	43+10 -L-	0	0	0	0	0.01	0.01
TOTAL:		1.85	0.00	0.00	0.00	9.48	11.33
IMPACTS APPROVED WITH THIS MODIFICATION							
Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	7+00 -L-	0.01	0	0	0	0.19	0.20
2	10+75 -L- LT	0	0	0	0	0.07	0.07
3	12+30 -L- RT	0.01	0	0	0	0.18	0.19

4	13+80 - 14+63 -L-	0.03	0	0	0	0.34	0.37
5	15+60 - 15+75 -L- LT	0.01	0	0	0	0.07	0.08
6	16+62 - 18+17 -L- RT	0.02	0	0	0	2.00	2.02
7	16+79 - 23+30 -L- LT	0.12	0	0	0	0.54	0.66
8	20+16 - 43+00 -L- RT	1.90	0	0	0	1.52	3.42
9	24+50 - 25+12 -L- LT	0.01	0	0	0	0.04	0.05
10	25+90 - 42+90 -L- LT	0.29	0	0	0	3.97	4.26
11	43+10 -L-	0	0	0	0	0.01	0.01
TOTAL:		2.40	0.00	0.00	0.00	8.93	11.33
DIFFERENCE:		+0.55	0.00	0.00	0.00	-0.55	0.00

R-2414B							
ORIGINAL IMPACTS APPROVED							
Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	-L- 47+82 LT/47+94 RT	0	0	0	0	0.01	0.01
2	-L- 51+60/51+95 RT	0.09	0	0	0	0.05	0.14
3	-L- 55+12 LT/56+49 RT	0.65	0	0	0	0.26	0.91
3	-L- 57+44/59+44 RT	0.30	0	0.09	0	0	0.39
4	-L- 62+65 LT/62+94 RT	0.06	0	0	0	0.04	0.10
5	-L- 67+19 LT/67+70 RT	0.08	0	0	0	0.06	0.14
6	-L- 72+48 LT/74+48 RT	0.85	0	0.01	0	0.37	1.23
7	-L- 88+60/89+28 LT	0.38	0	0	0	0.16	0.54
TOTAL:		2.41	0.00	0.10	0.00	0.95	3.46
IMPACTS APPROVED WITH THIS MODIFICATION							
Site	Station	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)*	Total Wetland Impact (ac)
1	-L- 47+82 LT/47+94 RT	0	0	0	0	0.01	0.01
2	-L- 51+60/51+95 RT	0.09	0	0	0	0.05	0.14
3	-L- 55+12 LT/56+49 RT	0.65	0	0	0	0.26	0.91
3	-L- 57+44/59+44 RT	0.10	0	0.05	0	0	0.15
4	-L- 62+65 LT/62+94 RT	0.06	0	0	0	0.04	0.1
5	-L- 67+19 LT/67+70 RT	0.08	0	0	0	0.06	0.14
6	-L- 72+48 LT/74+48 RT	0.85	0	0.01	0	0.37	1.23
7	-L- 88+60/89+28 LT	0.38	0	0	0	0.16	0.54
TOTAL:		2.21	0.00	0.06	0.00	0.95	3.22

DIFFERENCE:		-0.20	0.00	-0.04	0.00	0.00	-0.24
TOTAL PERMITTED IMPACTS FOR PROJECT							
TOTAL FOR R-2414A:		2.40	0.00	0.00	0.00	8.93	11.33
TOTAL FOR R-2414B:		2.21	0.00	0.06	0.00	0.95	3.22
PROJECT TOTAL:		4.61	0.00	0.06	0.00	9.88	14.55

* Totals include areas to be hand cleared for utility relocations
Total Wetland Impact for Project: 14.55 acres.
Additional Impacts Requiring Mitigation: 0.31 acres

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

This approval is only valid for the purpose and design that you submitted in your modified application dated received May 27, 2010. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated December 18, 2008, as well as the correction letter dated June 1, 2009, still apply except where superseded by this certification. 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.

Condition(s) of Certification:

- 1 All other conditions written into previous Water Quality Certifications issued December 18, 2008 and the correction letter dated June 1, 2009 for this project still apply
- * 2. Compensatory mitigation for impacts to 0.31 acres riparian 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 May 25, 2010 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

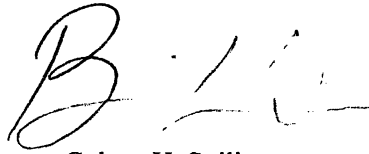
253

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 28th day of June 2010

DIVISION OF WATER QUALITY



for Coleen H. Sullins

WQC No. 003774
Director

WETLAND PERMIT IMPACT SUMMARY														
Site No	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS						
			Permanent Fill In Wetlands (ac)	Temp Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp (ft)			
1	-L- 47+83 LT / 47+94 RT	1 @ 30" RCP						0.01						
2	-L- 51+60 LT / 51+95 RT	1 @ 30" RCP	0.09					0.05						
3	-L- 55+12 LT / 56+49 RT -L- 57+44 / 59+45 RT	1 @ 8' x 6' RCBC	0.65 0.30		0.09			0.26			0.04	0.01	121	29
4	-L- 62+65 LT / 62+94 RT	1 @ 24"RCP	0.06					0.04						
5	-L- 67+19 LT / 67+70 RT	1 @ 30"RCP	0.08					0.06						
6	-L- 72+48 LT / 74+48 RT	2 @ 6' x 5' RCBC	0.85		0.01			0.37			0.05	0.01	92	21
Old SITE 7	-L- 82+23 / 82+43 RT	SITE DELETED												
7	-L- 88+60 / 89+28 LT	1 @ 10' x 5' RCBC	0.38					0.16			0.02	0.01	83	19
TOTALS:			2.42		0.10			0.95			0.11	0.03	297	69

0.22 Ac of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROJECT 8 T020401 (R-2414B)
US 158 - NC 34 WIDENING
SHEET June-08

Permit Drawing
Sheet 1 of 38

Property Owner List

Site NO.	Property NO.	Name DB and Pg	Address
1	(5)	Pecan Farms LLC DB 237 PG 728	203 Dogwood Tr Elizabeth City NC 27909
2	(16)	Linda Sue Lamb Hinton WB 99E, PG 22	135 Cottonwood Dr Hertford NC 27944
	(14)	Fred E. Upton, Jr., ET UX DB 42, Pg 615 DB 111, Pg 278	165 US 158 West Camden NC 27921
	(13)	Fred E. Upton, Heirs DB 22, Pg 468 DB 111, Pg 401	165 US 158 West Camden NC 27921
3	(23)	A & S Properties, LLC DB 157, Pg 769	913 Business Park Drive Chesapeake VA 23320
	(24)	Blue Sky Developments DB 138, Pg 109 PC-3, CL 77-B (PLAT)	300 Bridge Court #101 Camden NC 27921
	(22)	Ricky and Sheila Edwards DB 142, Pg 536	PO BOX 336 Shiloh NC 27974
	(25)	Camden County Board of Education DB 31, Pg 419 MB 18, Pg 551A DB 35, Pg 511 DB 62, Pg 15 DB 83, Pg 451	174 North 343 Camden NC 27921

(continued)

 Permit Drawing
 Sheet 3 of 38

 N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

CAMDEN COUNTY

 PROJECT: 8.T020401 (R-2414B)
 US 158 - NC 34 WIDENING

Project No. 8.T020401 (R-2414B)

Property Owner List

Site NO.	Property NO.	Name DB and Pg	Address
4	32	Mary M. Gordon DB 95, Pg 491 DB 116, Pg 890	104 North 343 Camden NC 27921
	34	Glen D. Gordon, ET UX DB 94, Pg 280 DB 83, Pg 679 DB 128, Pg 504 DB 87, Pg 181 (Post Office Lease) DB 132, Pg 160 (Store Leased)	128 Billet S. Bridge Rd Camden NC 27921
5	32	Mary M. Gordon DB 46, Pg 316A	104 North 343 Camden NC 27921
	39	TIDEWATER Agronomics	1601 N. Road St. Elizabeth City NC 27909
	38	Everything Real Estate LLC	PO Box 310 Camden NC 27921
	36	George Wood Farms, Inc. DB 115, Pg 607 DB 115, Pg 621	PO Box 159 Camden NC 29721
6	36	George Wood Farms, Inc. DB 115, Pg 607 DB 115, Pg 621	PO BOX 159 Camden NC 29721
	43	Albemarle Hospital, ET AL DB 120, Pg 372 DB 113, Pg 670 (MAP)	1144 North Road St. Elizabeth City NC 27909
	42	James Fae duck + Elliot W Jacobs	PO BOX 1554 Elizabeth City NC 27906

(continued)

Permit Drawing
Sheet 4 of 38

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

CAMDEN COUNTY

PROJECT: 8.T020401 (R-2414B)
US 168 - NC 24 WIDENING

SHEET ___ OF ___

9/15/08

REVISED 2/20/08

Project No. 8.T020401 (R-2414B)

Property Owner List

Site NO.	Property NO.	Name DB and Pg	Address
6 (Cont.)	16A	Norfolk Southern Railway Co. (Leased to Chesapeake & Albemarle R/R Co)	3 Commercial Place Norfolk VA 23510
	44	Brown Farms, Inc. DB 64, Pg 191 DB 54, Pg 175 (MAP)	343 North 34 Camden NC 27921
	45	Belcross Properties LLC	PO BOX 26 Camden NC 27921
8	73	Doris H. Harris DB 33, Pg 604 PC 1, SL 15A	265 East US 158 Camden NC 27921
	74	W. W. Owens & Sons Moving & Storage, INC	PO BOX 503 Elizabeth City NC 27909
	71	Joseph O. Sawyer, ET UX DB 95, Pg 360 PC 1, Pg 12A	640 North 343 Camden NC 29721
	75	Linda S. Demuth, ET AL DB 119, Pg 930	Wilhelmshoeh 27A Forchheim GR 91301
	72	W.W. Owens & Sons Moving & Storage, Inc. DB 81, Pg 700	PO Box 503 Elizabeth City NC 27909
	76	Horace Melville Cuthrell, Jr., ET UX DB 78, Pg 809 PC 1, 163A	109 North 343 Camden NC 27921
	77	Wallace G. Cahoon DB 79, Pg 413 PC 1, SL 1A	1540 Cedar Road Chesapeake VA 23320

Permit Drawing
Sheet 5 of 38

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

CAMDEN COUNTY

**PROJECT: 8.T020401 (R-2414B)
US 158 - NC 34 WIDENING**

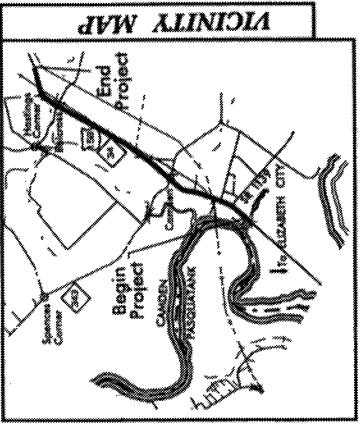
SHEET ___ OF ___

9/15/03

CONTRACT: R-2414B

TIP PROJECT: R-2414B

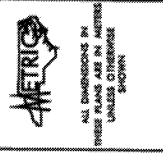
See Sheet 1-A For Limits of Streets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CAMDEN COUNTY

LOCATION: US 158-NC 34 FROM NORTH OF SR 1257
TO EAST OF NC 34 IN BELCROSS

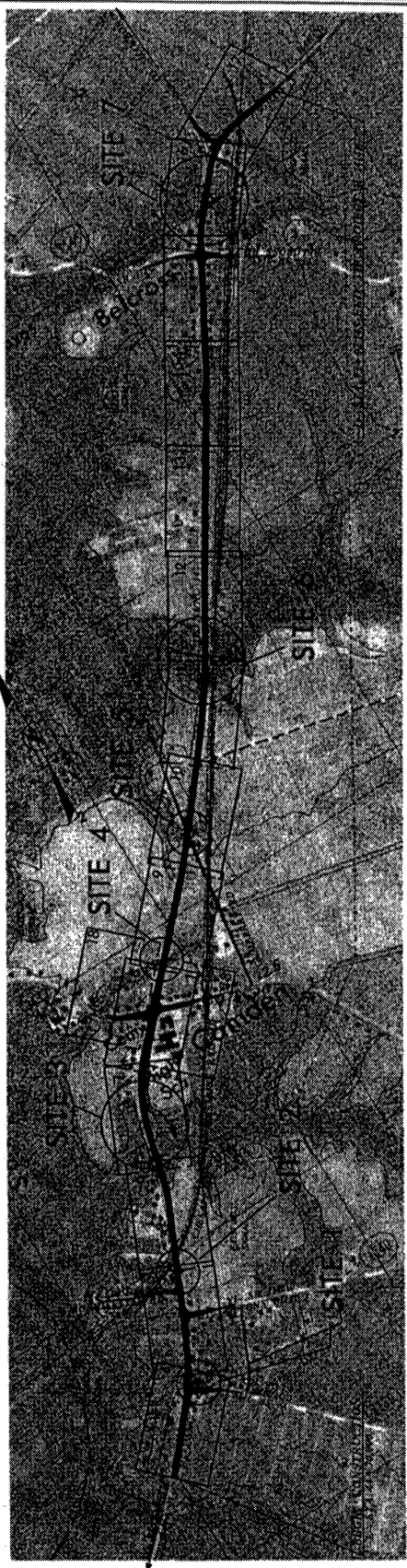
TYPE OF WORK: GRADING, DRAINAGE, PAVING,
CURB & GUTTER, CULVERTS & SIGNALS



PROJECT NUMBER	R-2414B
DATE	11/15/06
SCALE	AS SHOWN
DESIGNER	EDWARD G. WETHERILL, PE
CHECKER	BOB A. MAY, PE
DATE	11/17/06
PROJECT NUMBER	R-2414B
DATE	11/17/06
SCALE	AS SHOWN
DESIGNER	EDWARD G. WETHERILL, PE
CHECKER	BOB A. MAY, PE
DATE	11/17/06

Permit Drawing
Sheet 6 of 38

259



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

GRAPHIC SCALES

PLANS: 1" = 200'

PROFILE (HORIZONTAL): 1" = 100'

PROFILE (VERTICAL): 1" = 40'

DESIGN DATA

ADT (2009) = 26,000
ADT (2025) = 41,500

DIV = 12%
D = 60%
T = 5%
V = 80 km/h

* (T)ST 2% + DUAL 4%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2414B = 4.823 Km
TOTAL LENGTH TIP PROJECT R-2414B = 4.823 Km

RIGHT OF WAY DATE:
NOVEMBER 15, 2006

LETTING DATE:
NOVEMBER 17, 2009

NC DOT CONTACT:
B. DOLIG TAYLOR, PE

HYDRAULICS ENGINEER:
EDWARD G. WETHERILL, PE
ROADWAY DESIGN ENGINEER

PROJECT NUMBER: R-2414B

DATE: 11/17/06

PRELIMINARY PLANS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN DIVISION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CAMDEN COUNTY

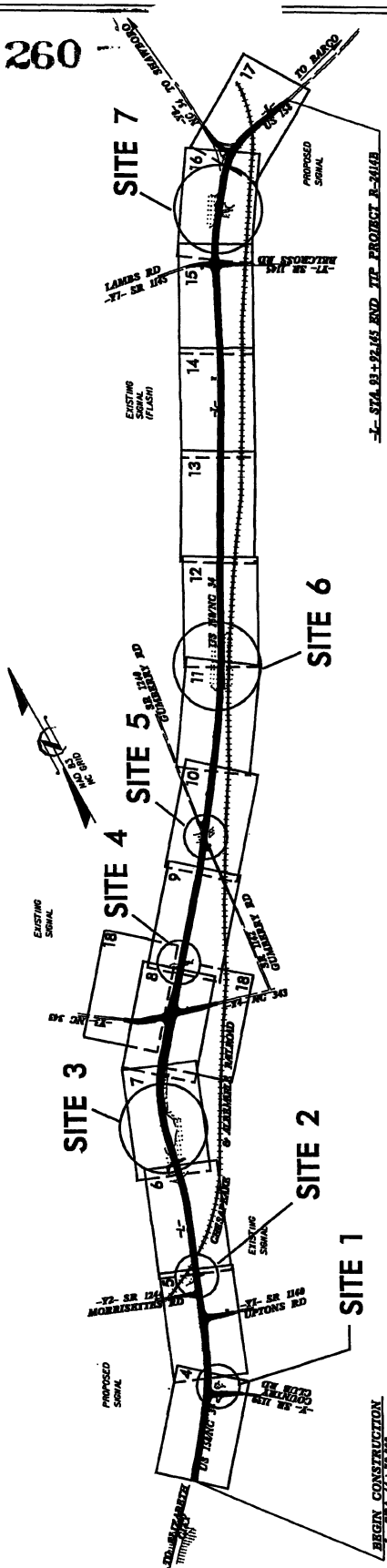
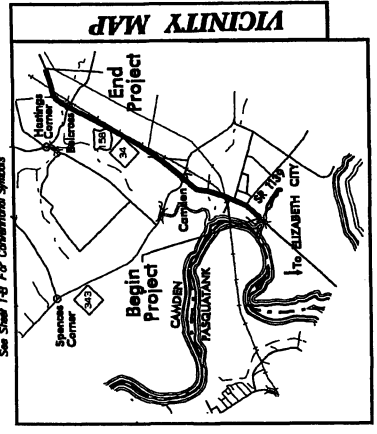
LOCATION: US 158 NC 34 FROM NORTH OF SR 1257
TO EAST OF NC 34 IN BELCROSS

TYPE OF WORK: GRADING, DRAINAGE, PAVING,
CURB & GUTTER, CULVERTS & SIGNALS

PROJECT NUMBER	R-2414B
DATE	11/15/2006
DESIGNER	34480.1.1
CHECKER	34480.2.5
SCALE	AS SHOWN
ROW & UTILITIES	

Permit Drawing
Sheet 1 of 38

ALL DIMENSIONS IN
THIS DRAWING ARE IN METERS
UNLESS OTHERWISE
SHOWN



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEANING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

GRAPHIC SCALES

DESIGN DATA

ADT (2009)	= 24,000
ADT (2029)	= 41,500
DHV	= 12%
D	= 60%
T	= 6%
V	= 80 km/h

* (TFT) 2% + DUAL 4%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2414B	= 4.823 Km
TOTAL LENGTH TIP PROJECT R-2414B	= 4.823 Km

DESIGNED BY

DESIGNER	EDWARD G. WETHERILL, PE
PROJECT NUMBER	R-2414B
LETTING DATE	NOVEMBER 17, 2009
PROJECT DESIGN ENGINEER	BOB A. MAY, PE
ROADWAY DESIGN ENGINEER	B. DOUG TAYLOR, PE

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

TIP PROJECT: R-2414B **CONTRACT:**

PROJECT REFERENCE NO. SHEET NO. 1
 P-2448
 ROADWAY DESIGN ENGINEER
 METRIC
 CONSTR. BY
 T.W. BIV

PERMIT DRAWING
 SHEET 9 OF 38
 DENIES HAND CLEARING

NOTE: SELECT TREES WHICH CONSTRUCTION EASEMENT FROM STA 46+50 TO STA 47+00 MAY BE PLANTED TO BE PRESERVED.

JAMES H. WOODSON, ET AL
 DB 06, PG 392
 DB 06, PG 688
 DB 06, PG 280 (MAP)

ROUSALYN L. FANCILOTTI
 DB 06, PG 392
 DB 06, PG 688
 DB 06, PG 280 (MAP)

ROBERT F. ET AL
 MASSELLO, ET AL
 DB 06, PG 280 (MAP)

GEORGE T. ORFETA, ET AL
 DB 06, PG 280 (MAP)

NOTE: DRAW AND EASEMENTS ON THE ROBINSON TRACT TO BE ACQUIRED UNDER THE R-2448 PROJECT.

NOTE: DRAW AND EASEMENTS ON THE ROBINSON TRACT TO BE ACQUIRED UNDER THE R-2448 PROJECT.

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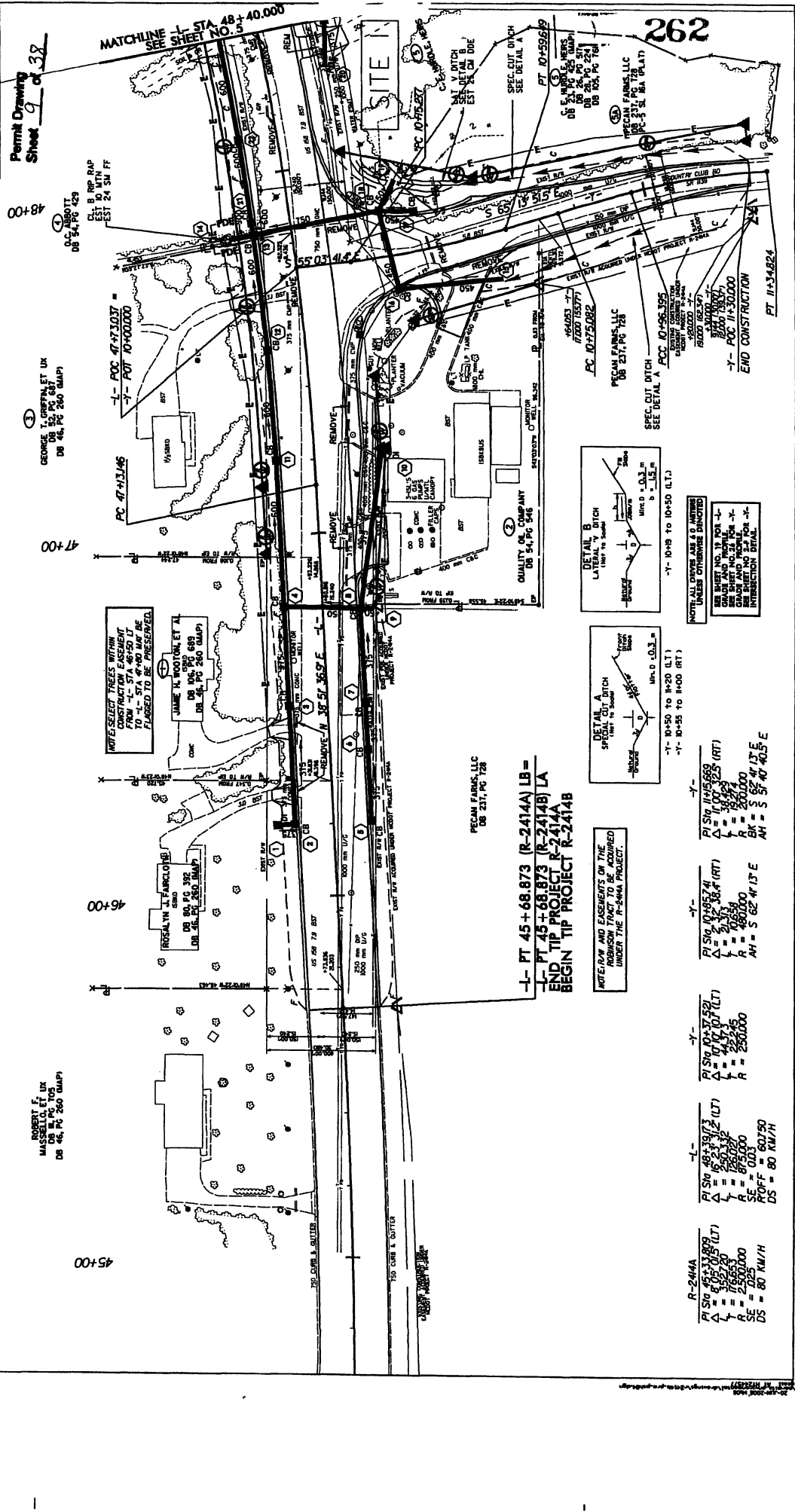
NOTE: DRAW AND EASEMENTS ON THE ROBINSON TRACT TO BE ACQUIRED UNDER THE R-2448 PROJECT.

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NOTE: DRAW AND EASEMENTS ON THE ROBINSON TRACT TO BE ACQUIRED UNDER THE R-2448 PROJECT.



45+00

46+00

47+00

48+00

49+00

50+00

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52+00

53+00

45+00

46+00

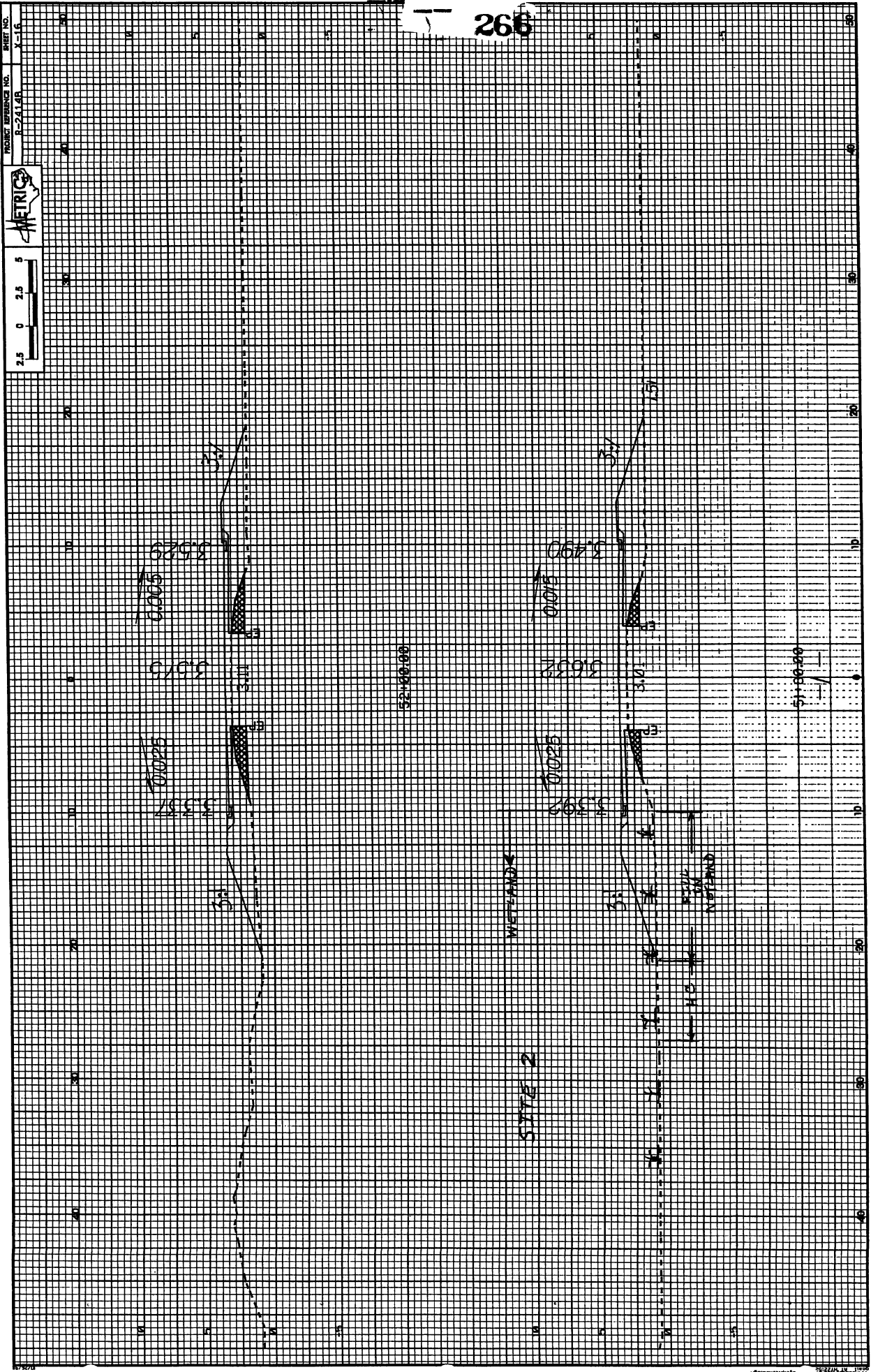
47+00

48+00

49+00

50+00

51+00



WETLANDS

SITE 2

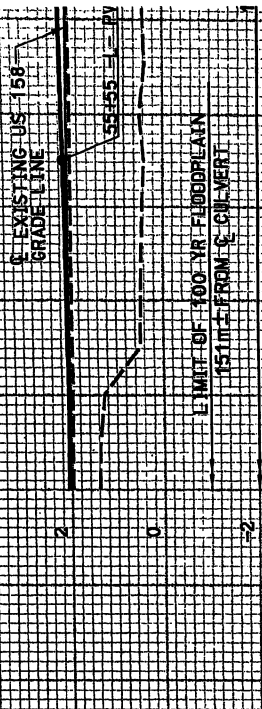
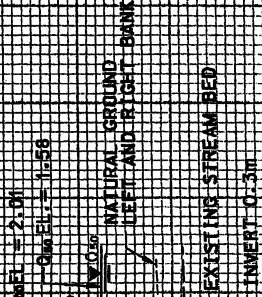
52+00.00

51+00.00

WETLAND

STA - 51+81.000 =
2.1M X 1.5M RCBC
C.P. EL. 2.250
SKEW = 87°

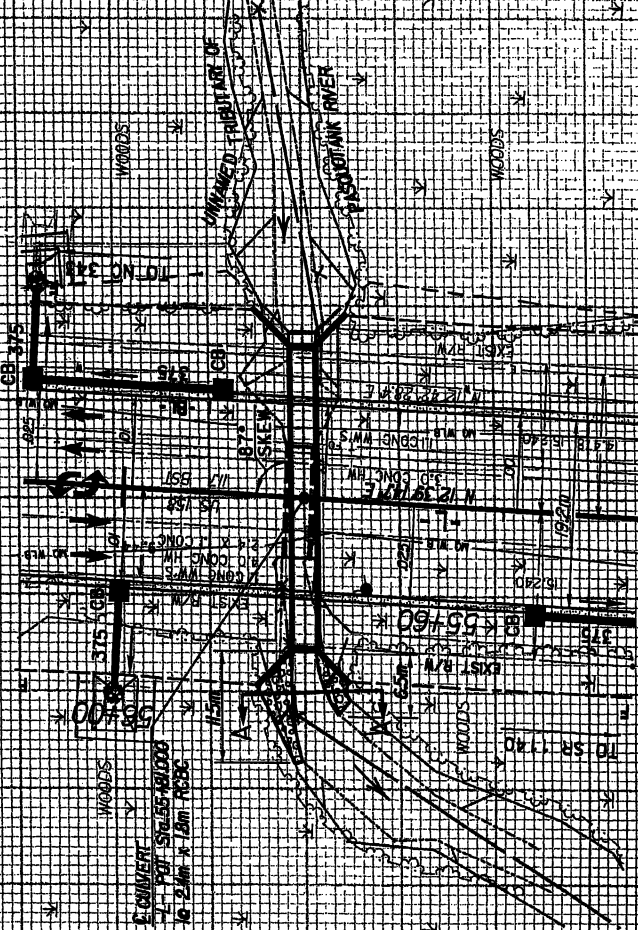
MS. EL. = 0.03
SURVEY 11-22-09
0 to EL. = 2.01
0 to EL. = 1.56



PROFILE

FLOODPLAIN

00 100 200 300 400 500 600 700 800 900 1000



L = 1.5M (RT) & 1.65M (LT) - MEASURED FROM END OF CULVERT
EST. EXCAVATION = 4m
EST. CLASS. RIP RAP = 23 TONS
EST. FILTER FABRIC = 30m

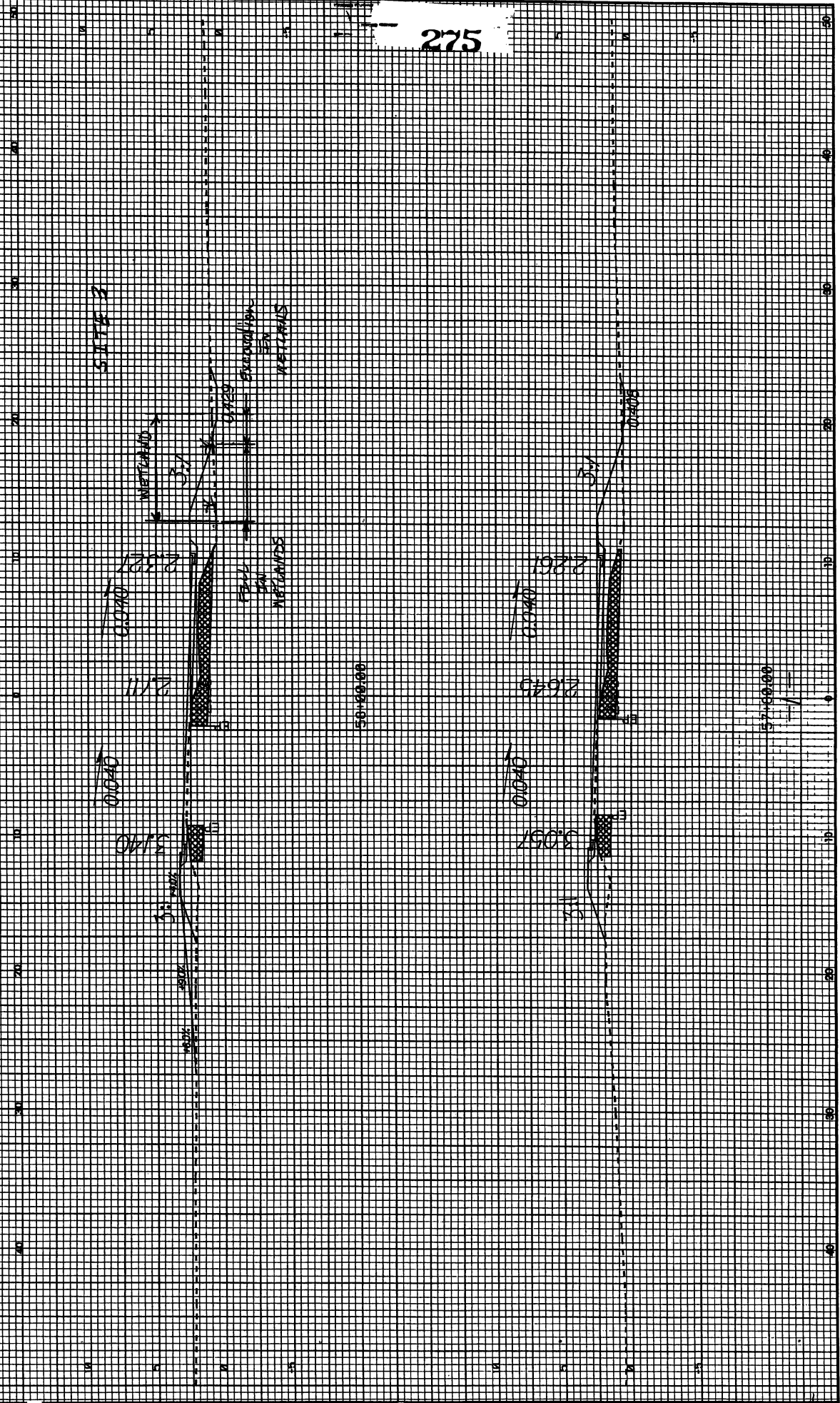
SECTION A-A

CHANNEL EXCAVATION
* SIDE SLOPES VARY FROM 2:1 TO EXISTING

HORIZ. SCALE 1"=50'
VERT. SCALE 1"=20'



275



SITE 2

EXCAVATION FOR REPAIRS

FILL FOR REPAIRS

56+50.00

57+50.00



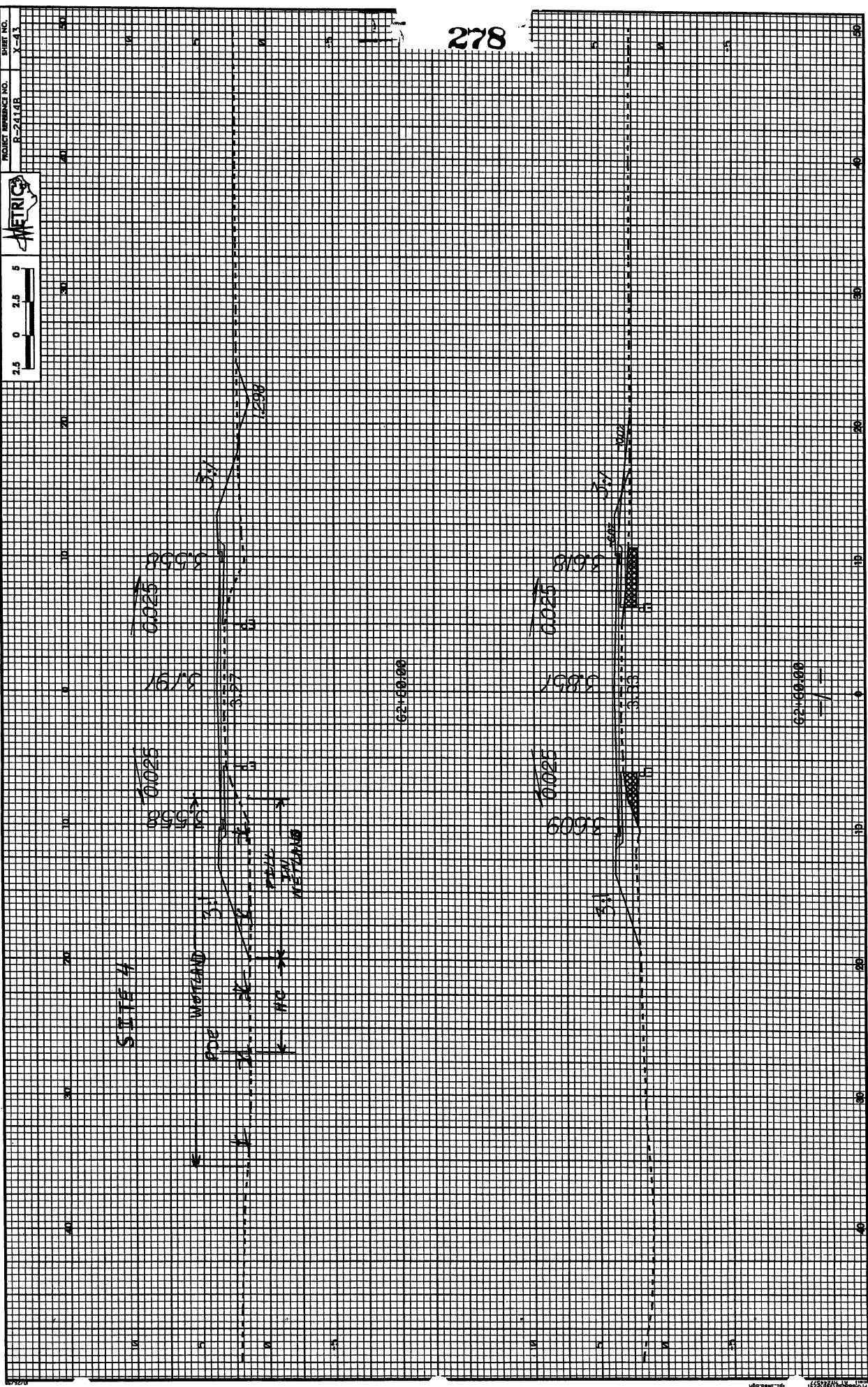
Sheet 25 of 38

PROJECT REFERENCE NO. R-24148

SHEET NO. X-43



278



SITE H

POE

MC

METLAND

3558

3609

3618

3627

3637

3647

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3667

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3707

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3797

3807

3817

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3837

3847

3857

3867

3877

3887

3897

3907

3917

3927

3937

3947

3957

3967

3977

3987

3997

4007

62+60.00

62+60.00

Sheet 210 of 38

PROJECT REFERENCE NO. 7-2749
 SHEET NO. 210
 ROADWAY DESIGN ENGINEER
 METRIC

CONTRACTOR
 R/W REV.
 TANKS CONSULTING
 1000 W. 10th St. Suite 100
 Lincoln, NE 68502
 (402) 441-1111

MARY COOKIN
 DB 24, PG 23
 H & R INVESTMENT
 DB 27, PG 23
 M.W. COOKIN, NERS
 DB 24, PG 23
 MATHIAS MARRELL
 DB 246, PG 540

REVISIONS
 R/W REVISION - REVISED PROPERTY OWNER NAME & ESTIMATED
 PARCEL NO. 35 AND C.A.M. REVISED PROPERTY OWNER NAMES
 ON PARCEL NO. 38, 39 & 40. E.M.W.

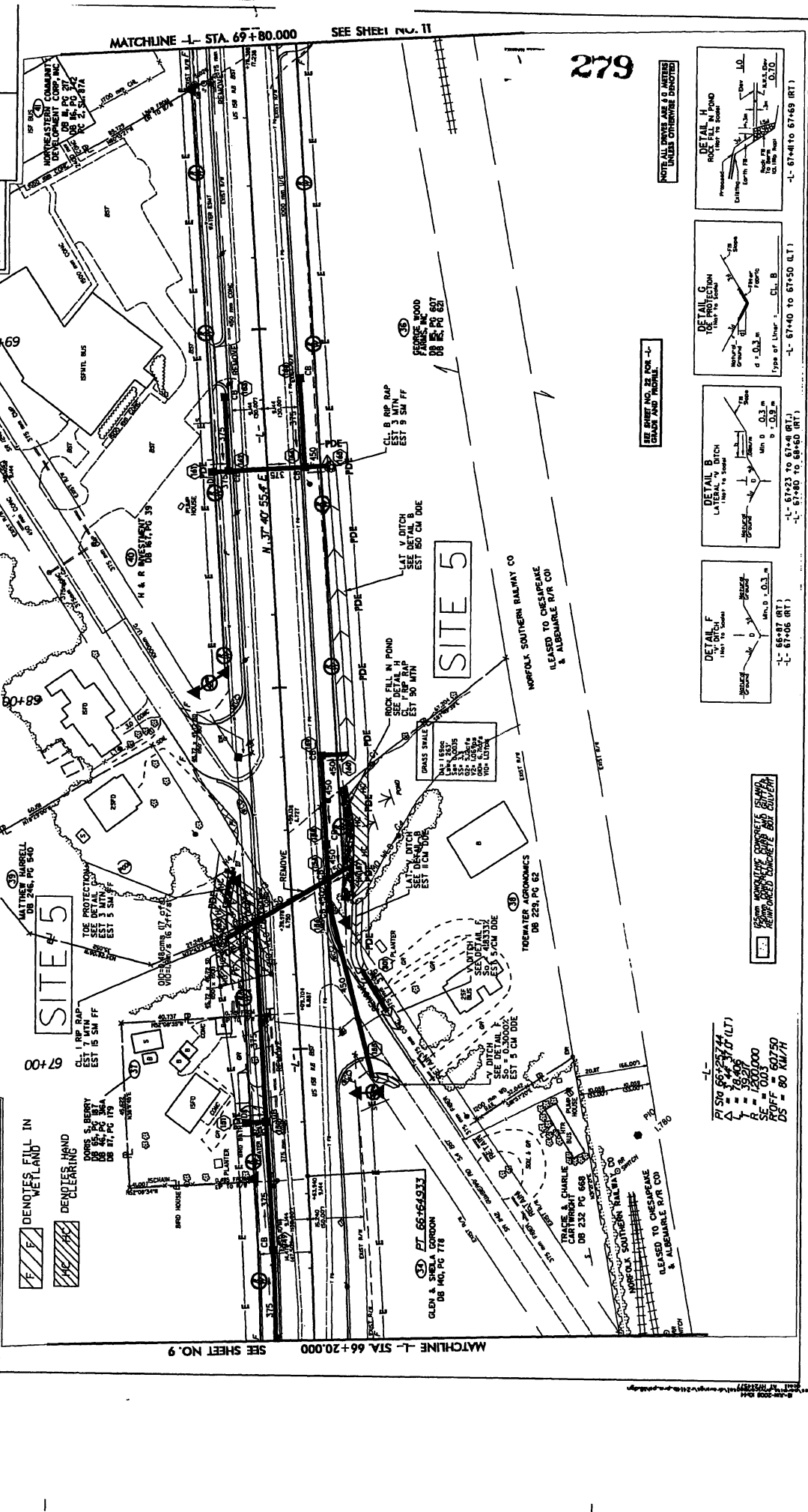
REVISIONS
 F F DENOTES FILL IN
 H C DENOTES HAND
 CLEARING

PT 66-464933
 GLEN A. SMITH, GORDON
 DB 140, PG 778

TRACIE A. CHARLES
 CHARTWRIGHT
 DB 232 PG 669

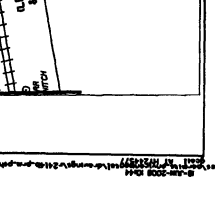
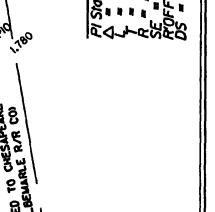
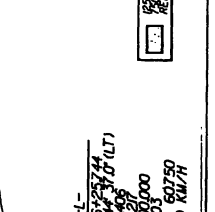
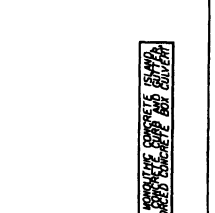
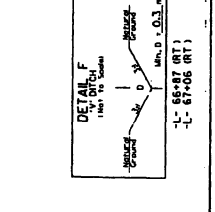
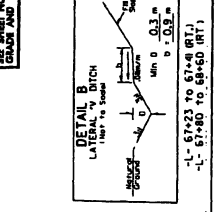
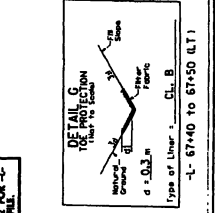
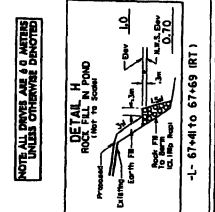
TREWATER AGRONOMICS
 DB 229, PG 62

NORFOLK SOUTHERN RAILWAY CO
 LEASED TO CHESAPEAKE
 & ALBEMARLE R/R CO



MATCHLINE L- STA. 69+80.000 SEE SHEET NO. 11

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NOT ALL DIMENSIONS ARE TO METERS UNLESS OTHERWISE INDICATED

PT 66-464933
 GLEN A. SMITH, GORDON
 DB 140, PG 778

TRACIE A. CHARLES
 CHARTWRIGHT
 DB 232 PG 669

TREWATER AGRONOMICS
 DB 229, PG 62

NORFOLK SOUTHERN RAILWAY CO
 LEASED TO CHESAPEAKE
 & ALBEMARLE R/R CO

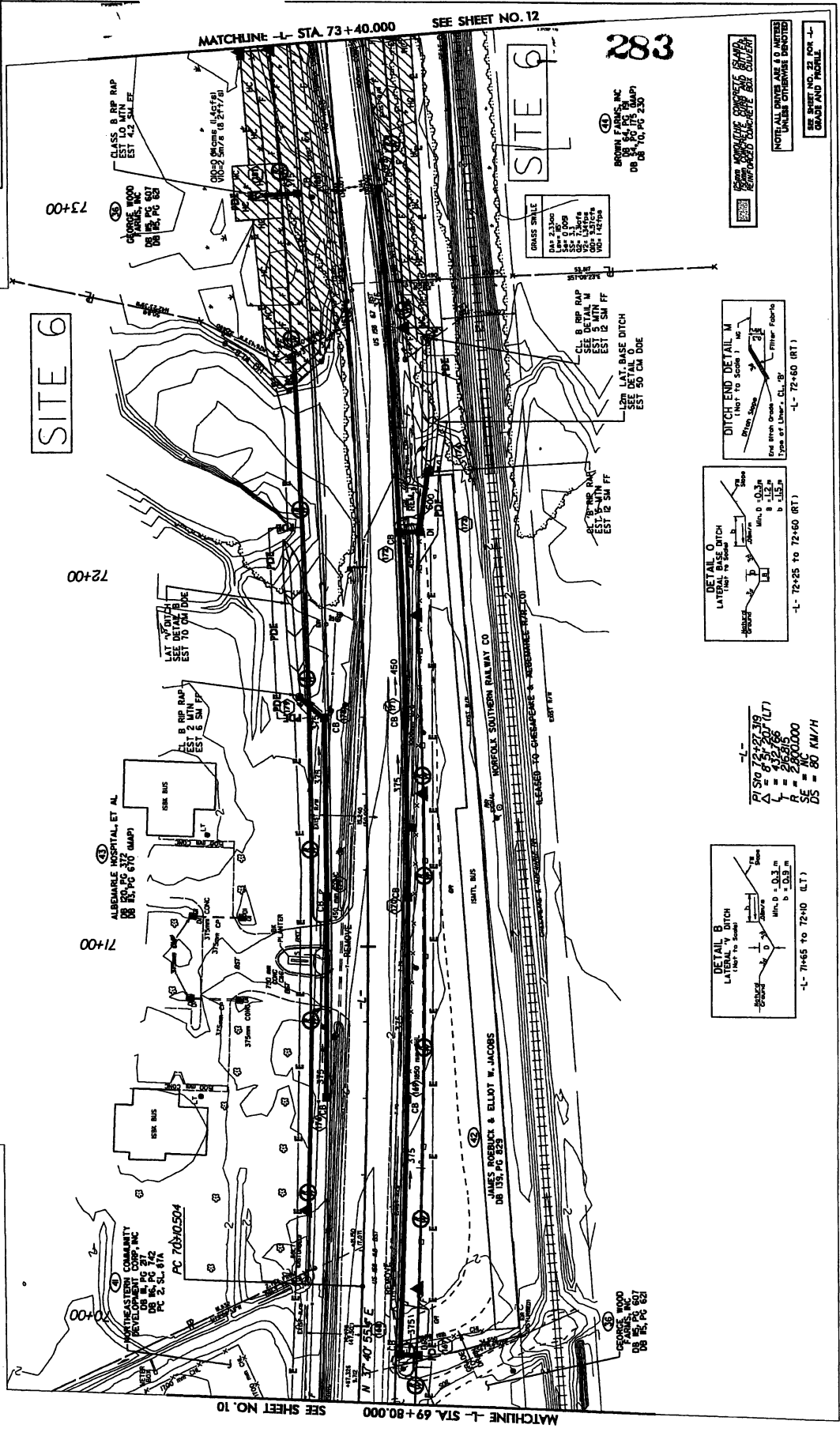
SEE SHEET NO. 22 FOR R/W

Sheet 30 of 38

PROJECT REFERENCE NO. 7-17-12
 SHEET NO. 30 OF 38
 METRIC
 ROADWAY DESIGN ENGINEER
 CONSULTARY
 R/W INT.

DEMOTES FILL IN NETLAND
 DEMOTES HAND CLEARING

NOTES - BRUISED ROW TIE & ONE ON PARCEL 35.4891
 R/W BRUISED - BRUISED PROPERTY OWNER NAME ON PARCEL
 NO.42 & ADDED DEED BOOK DESCRIPTION TO PARCEL
 NO.44.B.M



MATCHLINE -L- STA. 73+40.000 SEE SHEET NO. 12

283

SITE 9

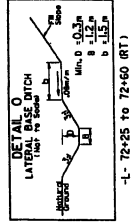
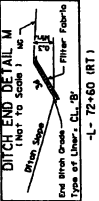
SITE 6

BRASS SHALE
 D.A. 2.33m
 S.W. 0.008
 S.E. 0.008
 S.N. 0.008
 S.E. 0.008
 S.W. 0.008
 S.E. 0.008
 S.N. 0.008
 S.E. 0.008

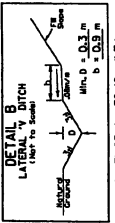
④ BROWN FARMS, INC
 DB 154, PG 827
 DB 155, PG 827

CL. B R/R RAP
 SEE DETAIL M
 EST 12.5M FF

LET. BASE DITCH
 SEE DETAIL O
 EST 50 CM DOE



P/SIG 72+27.79
 Δ = 3.52/26
 R = 250.000
 SE = 80 KM/H
 DS = 80 KM/H



MATCHLINE -L- STA. 69+80.000 SEE SHEET NO. 10

PROJECT REFERENCE NO.	7-24-09	SHEET NO.	12
PROJECT NAME	ROADWAY DESIGN	ENGINEER	HYDRAULICS
DATE	7/24/09	DESIGNER	HYDRAULICS
COUNTRY	R/W REV.		

TRANSITE CONSULTING
 TRANSPORTATION ENGINEERING
 10000 W. 10th Street, Suite 100
 Overland Park, KS 66212

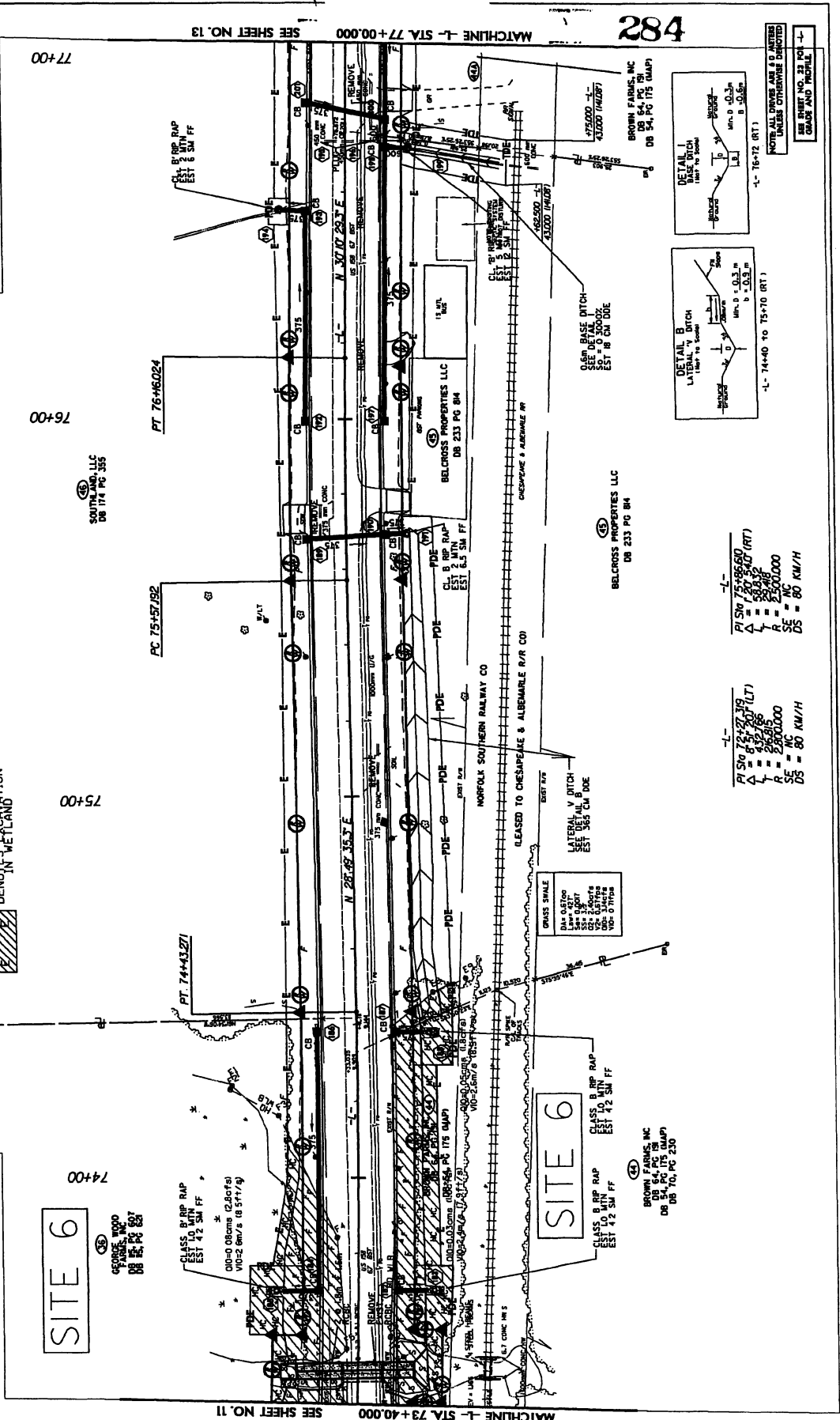
METRICS
 METRIC ENGINEERING
 10000 W. 10th Street, Suite 100
 Overland Park, KS 66212

REVISIONS

R/W REVISION - REVISED P&E & T&E ON PARCEL NO. 36 (B&M)
 R/W REVISION - ADDED DEED BOOK DESCRIPTION TO PARCEL NO. 44 (B&M)

LEGEND

DENOTES FILL IN WETLAND
 DENOTES HAND CLEARING
 DENOTES EXCAVATION IN WETLAND



284

NOTE: ALL DRIVE ABIS & D INTERSECTIONS UNLESS OTHERWISE SPECIFIED

SEE SHEET NO. 22 FOR CROSS AND PROFILE

DETAIL A DITCH
 L=118.77 (RT)
 min. d = 0.3 m
 min. b = 0.3 m

DETAIL B DITCH
 L=118.77 (RT)
 min. d = 0.3 m
 min. b = 0.3 m

PI SW 75-485.60
 Δ = 170.547 (RT)
 L = 50.000
 R = 50.000
 SE = 100.000
 DS = 80 KM/H

PI SW 75-485.60
 Δ = 170.547 (RT)
 L = 50.000
 R = 50.000
 SE = 100.000
 DS = 80 KM/H

PI SW 75-485.60
 Δ = 170.547 (RT)
 L = 50.000
 R = 50.000
 SE = 100.000
 DS = 80 KM/H

PI SW 75-485.60
 Δ = 170.547 (RT)
 L = 50.000
 R = 50.000
 SE = 100.000
 DS = 80 KM/H

Sheet 22 of 38

PROJECT REFERENCE NO. 12
 R-24169
 R/W SHEET NO. 12
 METRIC
 ROADWAY DESIGN
 ENGINEER
 CONSULTANT
 R/W REV.

TRANSITE CONSULTING
 1100 W. 10th St., Suite 100
 Fargo, ND 58103
 (701) 785-1100
 TRANSPORTATION DIVISION
 CONSULTANT

EVERETT
 1100 W. 10th St., Suite 100
 Fargo, ND 58103
 (701) 785-1100
 TRANSPORTATION DIVISION
 CONSULTANT

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 (701) 785-1100
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 CONSULTANT

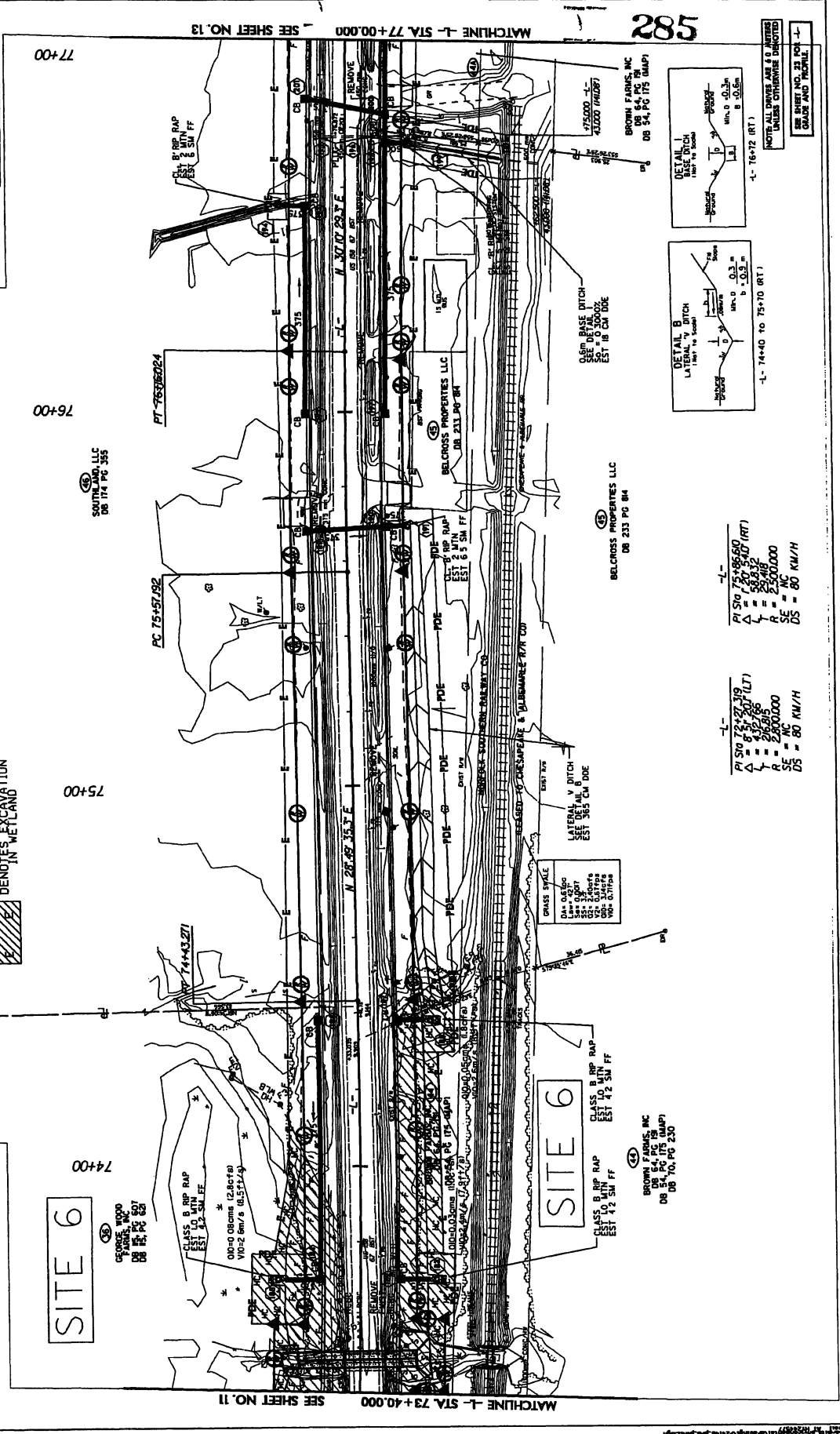
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 1100 W. 10th St., Suite 100
 Fargo, ND 58103
 (701) 785-1100
 TRANSPORTATION DIVISION
 CONSULTANT

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 CONSULTANT



F F DENOTES FILL IN WETLAND
 H C DENOTES HAND CLEARING
 E E DENOTES EXCAVATION IN WETLAND

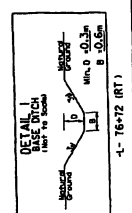
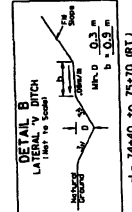
SITE 6
 GEORGE WOOD
 100-0 08.0ms (2.80ctal)
 10+2 6m/6 (10.5114)
 CLASS B R/RP RAP
 EST 10.5114
 DB 85, PG 807

SITE 6
 CLASS 9 R/RP RAP
 EST 42.5M FF
 DB 70, PG 230

BROWN FARMS, INC
 DB 84, PG 175 (DAMP)
 DB 70, PG 230

L- 73+27.319
 PI STA 73+05.610
 Δ = 85.540' (RT)
 L = 200.000'
 R = 2500.000'
 SE = NC
 DS = 80 KM/H

L- 75+05.610
 PI STA 75+05.610 (RT)
 Δ = 85.540' (RT)
 L = 200.000'
 R = 2500.000'
 SE = NC
 DS = 80 KM/H



NOT ALL SPACES ARE 1:1 UNLESS OTHERWISE DIMENSIONED
 SEE SHEET NO. 23 FOR GRADE AND PROFILE

285

MATCHLINE 1- STA. 77+00.000 SEE SHEET NO. 13
 MATCHLINE 1- STA. 73+40.000 SEE SHEET NO. 11

77+00

76+00

75+00

74+00

SOUTHERN LAND, LLC
 DB 174 PG 385

BELCROSS PROPERTIES LLC
 DB 211 PG 84

BELCROSS PROPERTIES LLC
 DB 233 PG 84

BELCROSS PROPERTIES LLC
 DB 233 PG 84

BELCROSS PROPERTIES LLC
 DB 233 PG 84

BELCROSS PROPERTIES LLC
 DB 233 PG 84

BELCROSS PROPERTIES LLC
 DB 233 PG 84

BELCROSS PROPERTIES LLC
 DB 233 PG 84

BELCROSS PROPERTIES LLC
 DB 233 PG 84

CLASS B R/RP RAP
 EST 2.5M FF

CLASS B R/RP RAP
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 EST 42.5M FF

PROJECT REFERENCE NO. **17-0000** SHEET NO. **38**

DATE **11/11/11**

BY **HYDRAULIC ENGINEER**

FOR **ROADWAY DESIGN ENGINEER**

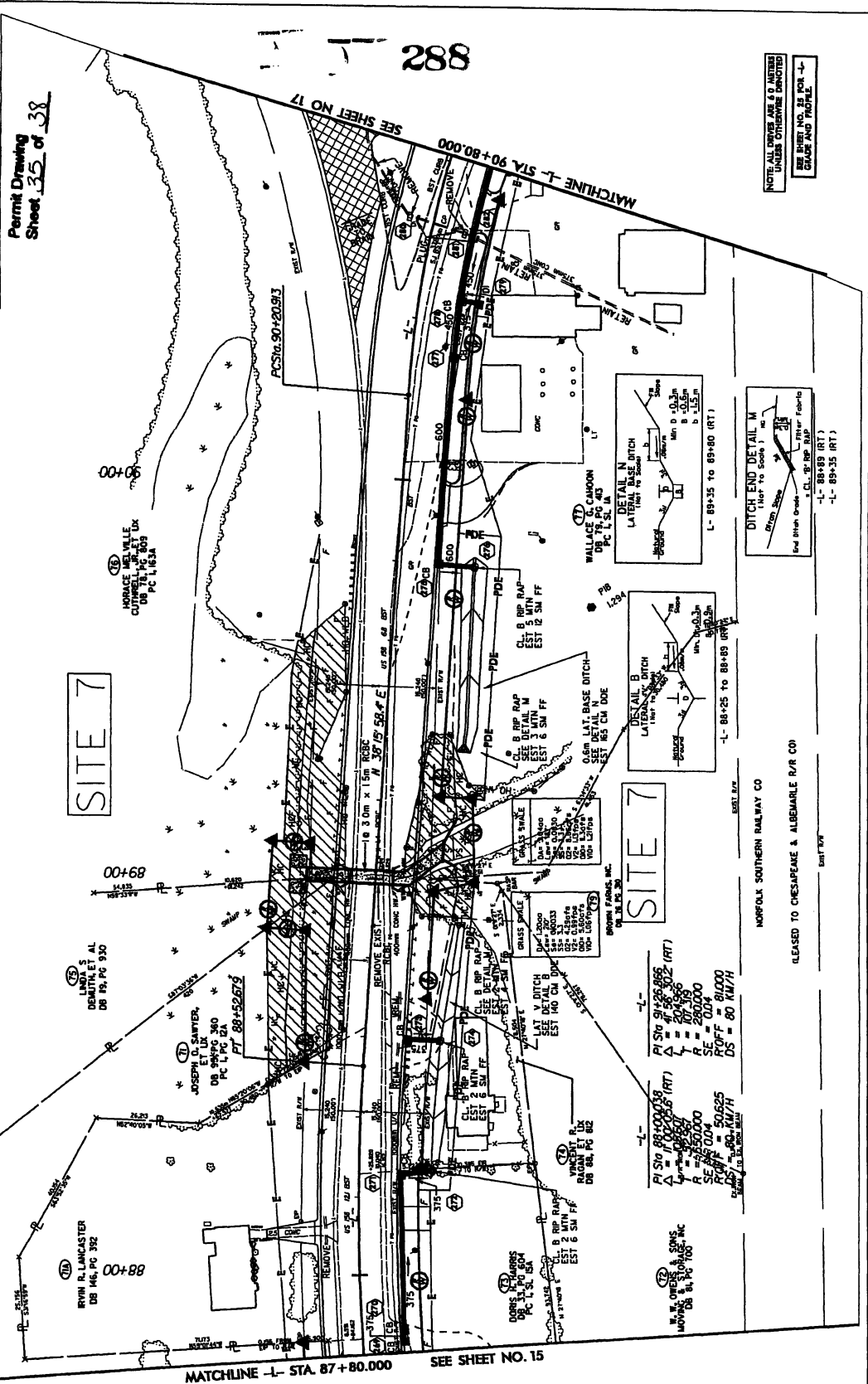
CONTRACT NO. **11-0000**

SCALE **N/A**

TRIG

TRAN SITE CONSULTING

1100 W. 10th St. Suite 101
Des Moines, IA 50319
Phone: 515-281-1100
Fax: 515-281-1101
www.transite.com



REVISIONS

R/W DESIGN - REVISED R/W BOX & TCE ON PARCEL NOS. 714, 1528 & 71. REVISED FLAGGING DUE TO THE ELIMINATION OF EQUILITY (BAM)

R/W DESIGN - ADDED PARCEL NO. 714 & REVISED THE PROPERTY OWNER NAMES ON PARCEL NO. 714 & 74 BAM

LEGEND

DEVELOPERS FILL IN NETLAND

DEVELOPERS CLEARING LAND

PROPERTY OWNERS

RYAN R. LANCASTER DB 146, PG 392

LINDA S. DEMUTH, ET AL DB 175, PG 930

JOSSEPH E. LUKAS DB 588 PG 340 PC L PG 2A FT 88+52.675

HORACE MAVILLE OUTWELL, JR, ET DX DB 111, PG 309 PC L PG 1, 100A

UTILITY NOTES

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

UTILITY NOTES

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

UTILITY NOTES

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

UTILITY NOTES

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

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WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

UTILITY NOTES

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

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WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

UTILITY NOTES

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

WALLACE C. CAMMON DB 74, PG 43 PC L, SL, M

NOTE: ALL NOTES ARE TO BE NOTED UNDER OTHERWISE INDICATED

SEE SHEET NO. 38 FOR -L- GRADE AND PROFILE

NOTE: ALL NOTES ARE TO BE NOTED UNDER OTHERWISE INDICATED

SEE SHEET NO. 38 FOR -L- GRADE AND PROFILE

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SEE SHEET NO. 38 FOR -L- GRADE AND PROFILE

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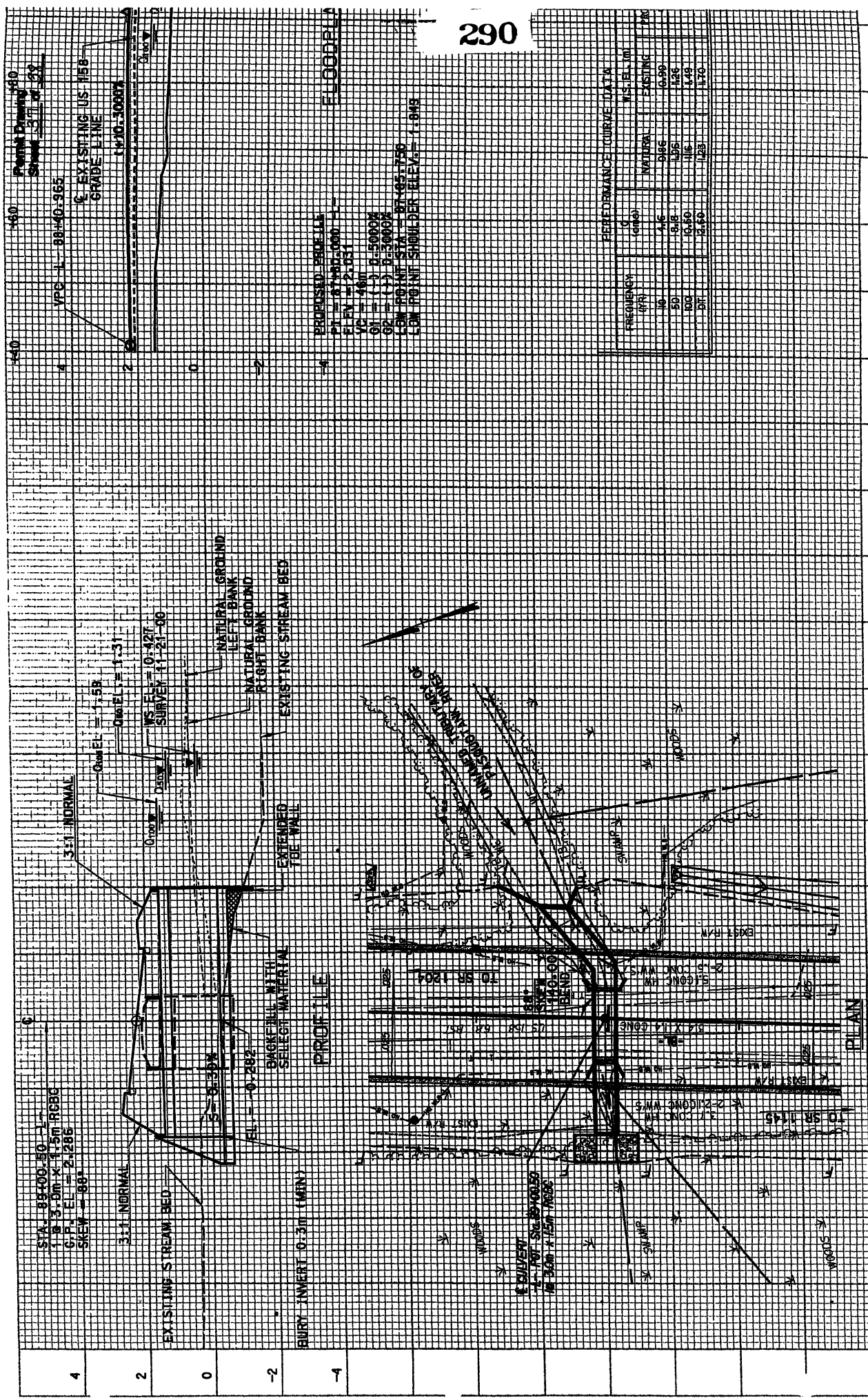
SEE SHEET NO. 38 FOR -L- GRADE AND PROFILE

NOTE: ALL NOTES ARE TO BE NOTED UNDER OTHERWISE INDICATED

SEE SHEET NO. 38 FOR -L- GRADE AND PROFILE

NOTE: ALL NOTES ARE TO BE NOTED UNDER OTHERWISE INDICATED

SEE SHEET NO. 38 FOR -L- GRADE AND PROFILE



Sheet 3 of 52

EXISTING US 158 GRADE LINE

VPC L 88+40.965

1+10.10000

PROPOSED PROFILE

PT = 87+40.000 LL

PEL = 2.051

VC L 467

GI = 1.3 0.5000%

GR = 1.3 0.5000%

LOW POINT STA = 87+45.750

LOW POINT SHOULDER ELEV. = 7.848

WS ELEV. = 0.421

QWD ELEV. = 1.58

QWD ELEV. = 1.3

NATURAL GROUND LEFT BANK

NATURAL GROUND RIGHT BANK

EXISTING STREAM BED

EXTENDED FOR WALL

BACKFILL WITH SELECT MATERIAL

BURY INVERT 0.3m (10in)

3.1:1 NORMAL

3% SLOPE

1.5m (5ft) RCBC

G.P. ELEV. = 2.286

SKEW = 89°

WOODS

SWAMP

EXIST. TRAIL

WOODS

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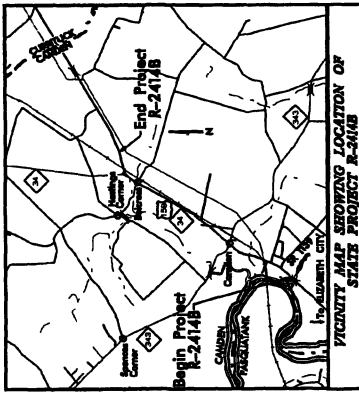
WOODS

WOODS

WOODS

TIP PROJECT: R-2414B

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



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS **UTILITY BY OTHERS PLANS** **CAMDEN COUNTY**

**LOCATION: US 158-NC 34 FROM SOUTH OF SR 1257
TO EAST OF NC 34 IN BELCROSS**

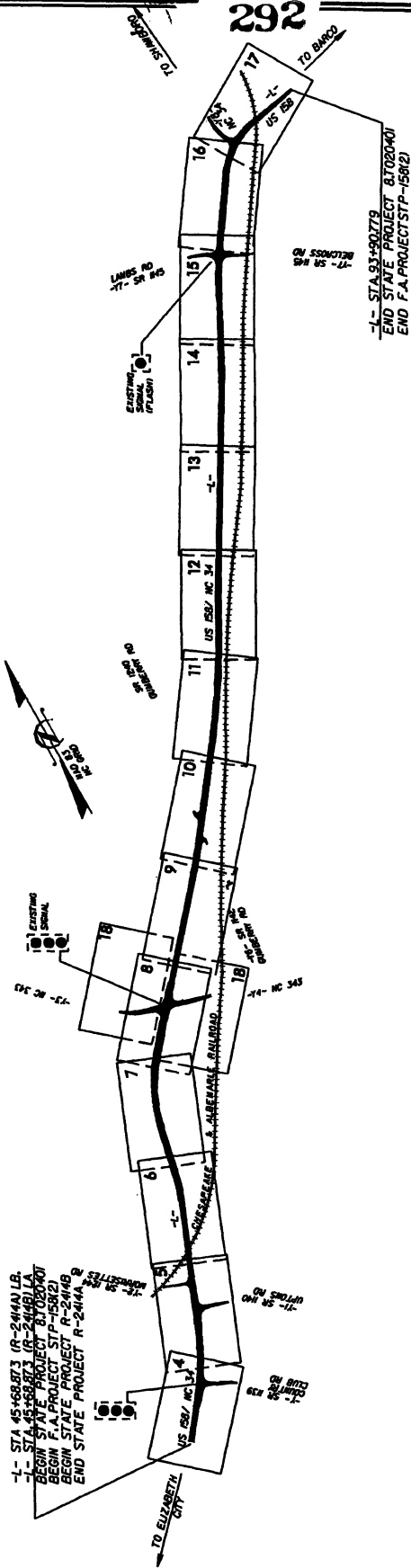
TYPE OF WORK: UTILITIES RELOCATION

TIP NO.
R-2414B

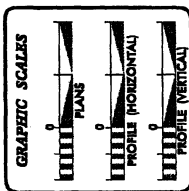
SHEET NO.
1

ALL DIMENSIONS IN THESE PLANS ARE IN FEET UNLESS OTHERWISE SHOWN

Utility
Permit Drawing
Sheet of 15



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



SHEET NO.	DESCRIPTION
1	

UTILITY OWNERS ON PROJECT

PREPARED BY THE OFFICE OF
DIVISION OF HIGHWAYS
UTILITY SECTION
FOR STATE PROJECTS
PROJECT NO. R-2414B
DATE: 10/15/08

**INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION**

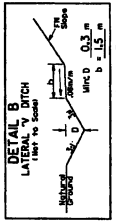
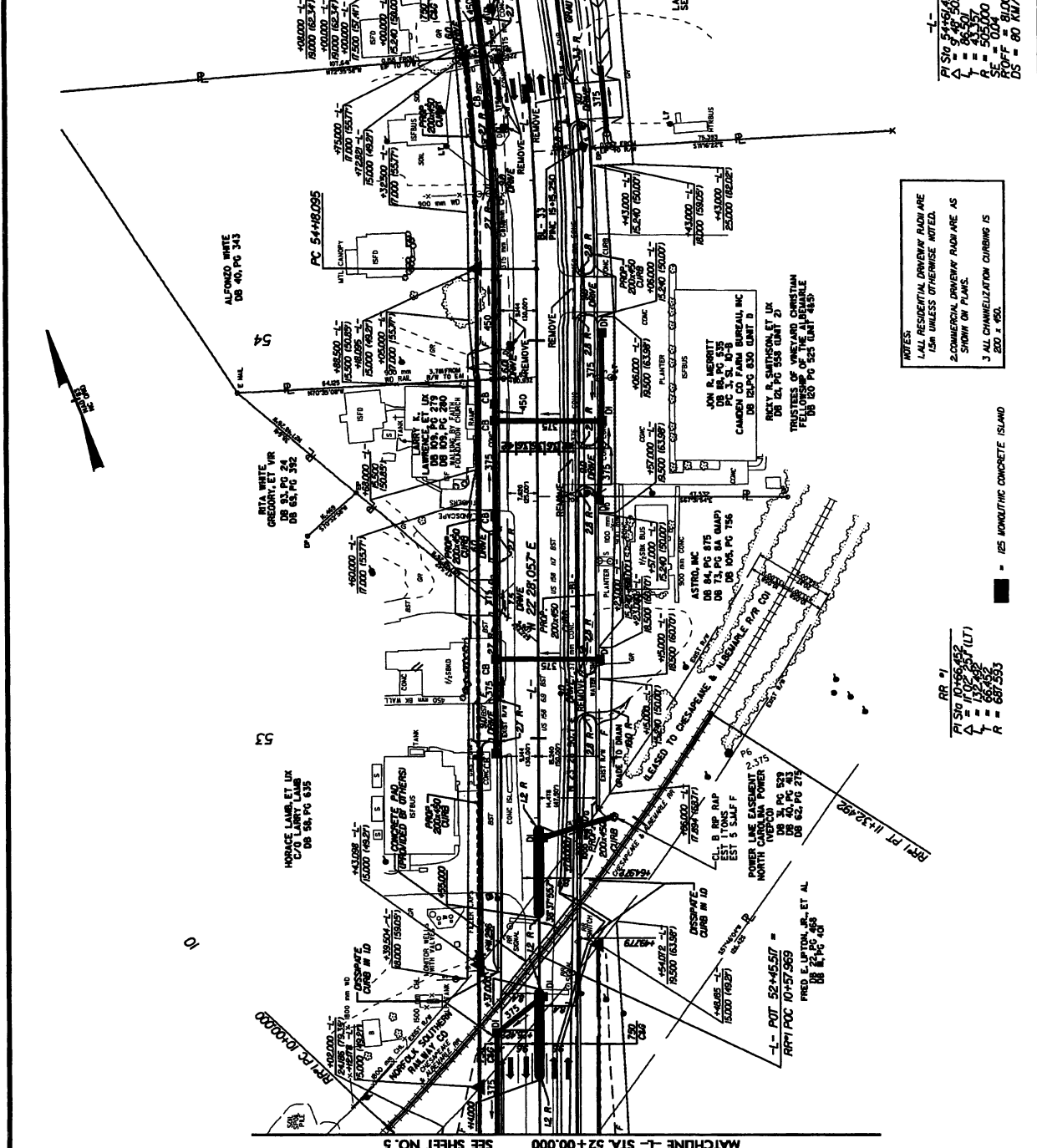
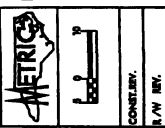
APPROVED BY THE OFFICE OF
DIVISION OF HIGHWAYS
UTILITY SECTION
FOR STATE PROJECTS
PROJECT NO. R-2414B
DATE: 10/15/08

Camden, North Carolina
Camden County
Camden County
Camden County

PROJECT REFERENCE NO. R-84148 SHEET NO. 8

UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



RR #1
 RI STA 54+55.452 (LT)
 A = 84.50
 L = 505.00
 R = 505.00
 SE = 50.04
 PROFF = 81.000
 DS = 80 NM/7H

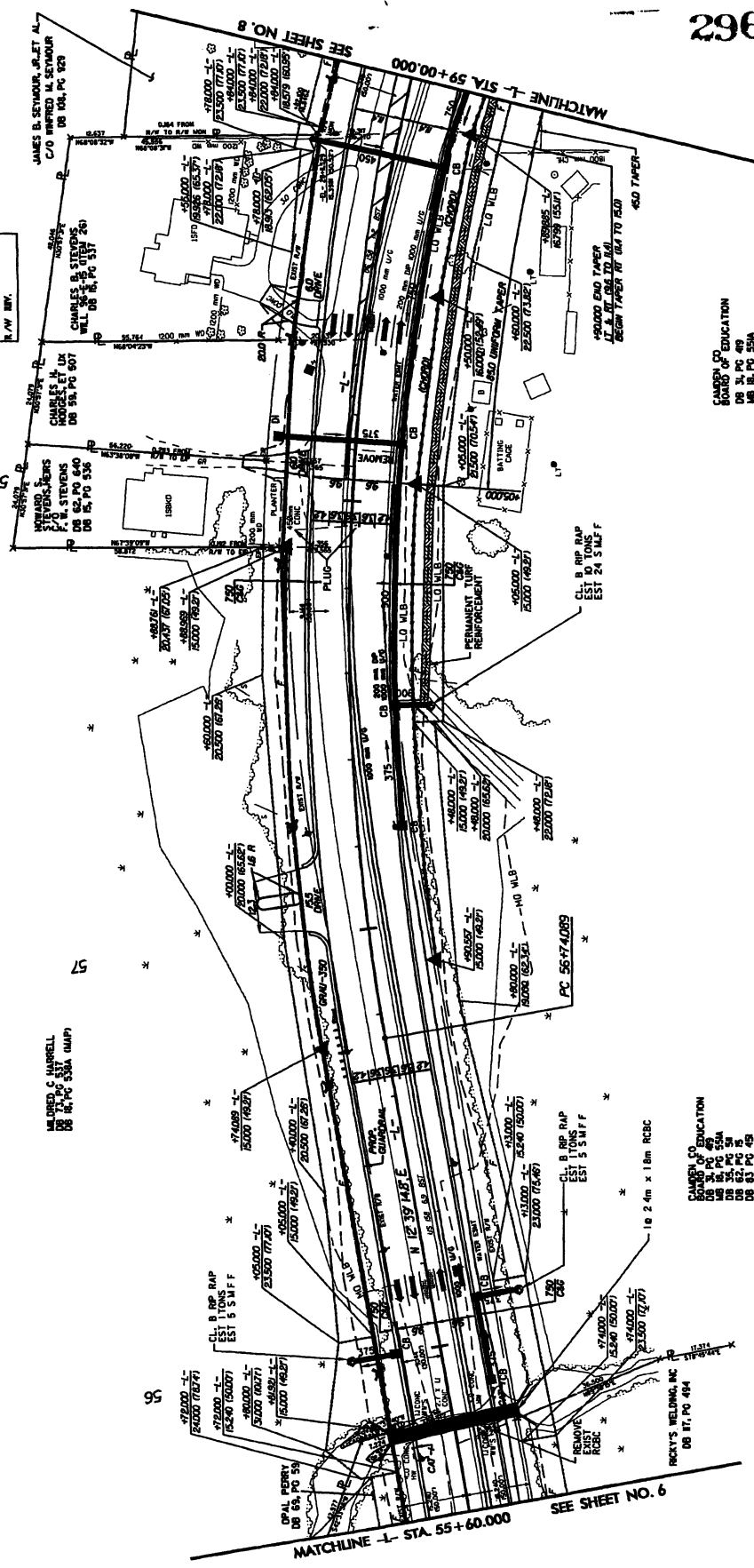
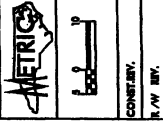
NOTES:
 1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5M UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

RR #1
 RI STA 54+55.452 (LT)
 A = 84.50
 L = 505.00
 R = 505.00
 SE = 50.04
 PROFF = 81.000
 DS = 80 NM/7H

125 MONOLITHIC CONCRETE ISLAND

UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



CAMDEN CO EDUCATION
 DB 31 PG 49
 DB 32 PG 50A
 DB 33 PG 51
 DB 34 PG 52
 DB 35 PG 53
 DB 36 PG 54
 DB 37 PG 55

NOTES:
 1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5M UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 X 450.

PERMANENT SOIL REINFORCEMENT MATTING

-L-
 PLSW 58 45.59
 L = 276.01
 R = 550.00
 SE = 0.04
 PTOFF = 81.000
 DS = 80 KM/H

CAMDEN CO EDUCATION
 DB 31 PG 49
 DB 32 PG 50A
 DB 33 PG 51
 DB 34 PG 52
 DB 35 PG 53
 DB 36 PG 54
 DB 37 PG 55

MATCHLINE -L- STA. 55+60.00 SEE SHEET NO. 6

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

	CONTRACT NO.
	D.P. NO.

NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE
1.5M UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADII ARE AS
SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS
200 x 400.

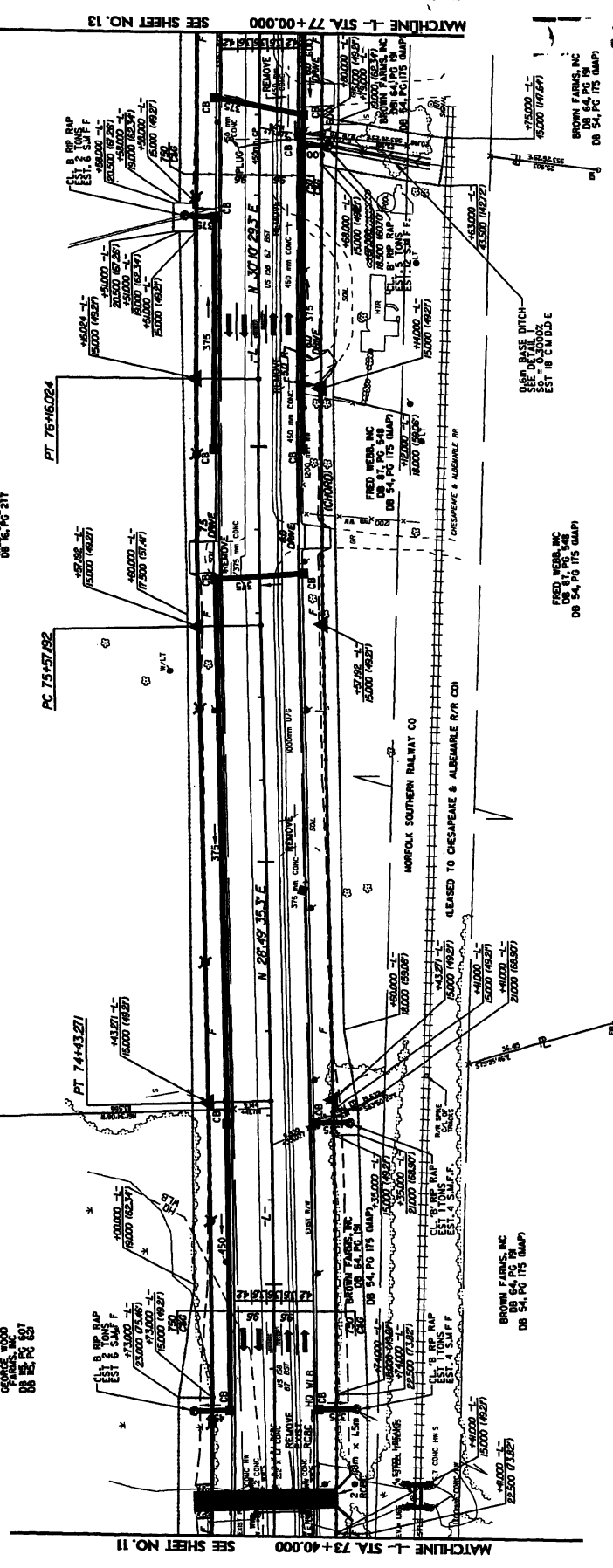
76

C/O VIRGIN ROSS
IN BROWN AT CENTER
DB 54, PG 175

75

74

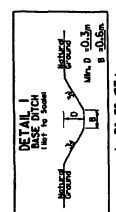
GEORGE WOOD
PARKS, INC
DB 54, PG 175



SEE SHEET NO. 13
MATCHLINE L- STA 77+00.00

SEE SHEET NO. 11
MATCHLINE L- STA 73+40.00

301



-L-

PI STA	75+96.00
Δ	6.15
LT	28.48
R	2500.0000
SE	MC
DS	80 KM/H

-L-

PI STA	74+57.39
Δ	6.15
LT	28.48
R	2500.0000
SE	MC
DS	80 KM/H

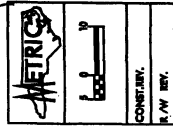
FRED WEBB, INC
DB 54, PG 175 (MAP)

BROWN FARMS, INC
DB 54, PG 175 (MAP)

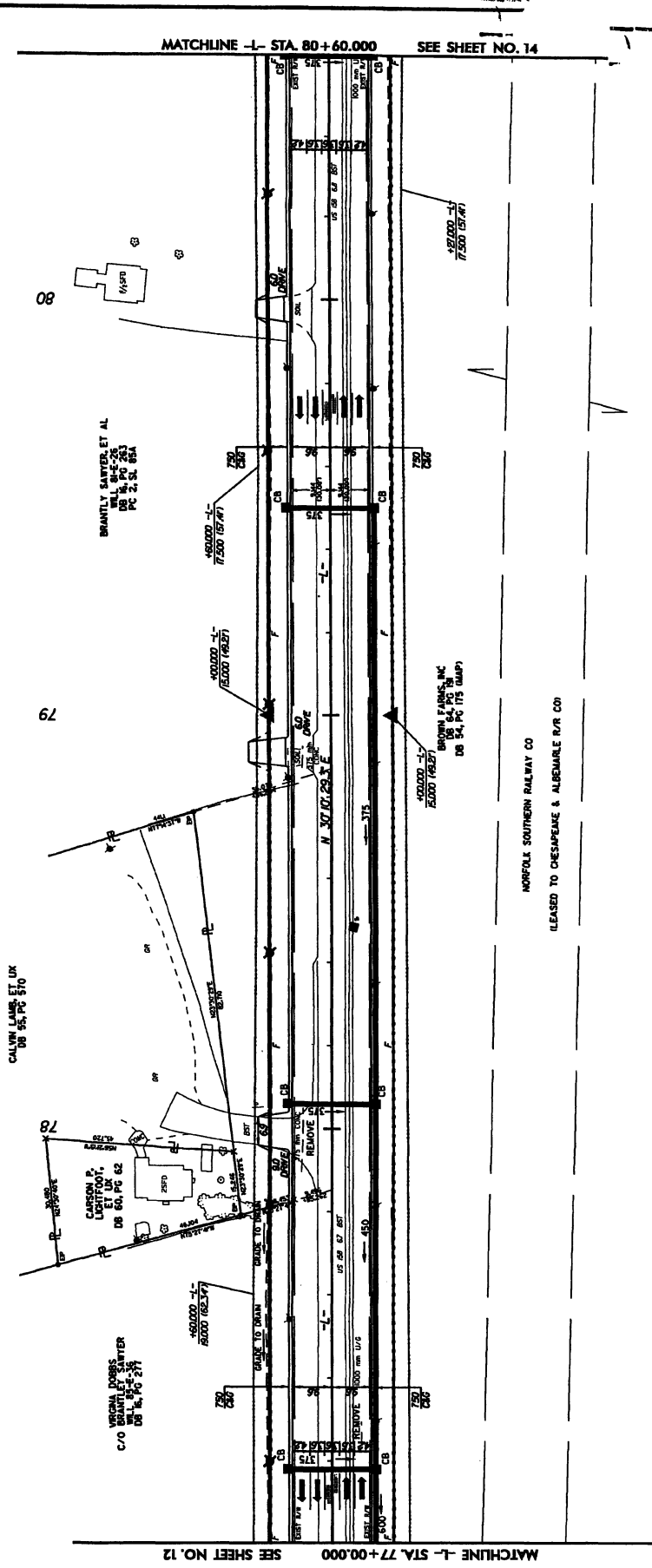
SEE DETAIL 1
CLEAR BASE DITCH
EST. 10 CH 10.0 E

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

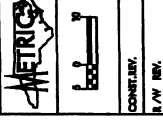


NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADIUSES
15m UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADIUSES AS
SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS
200 ± 450.



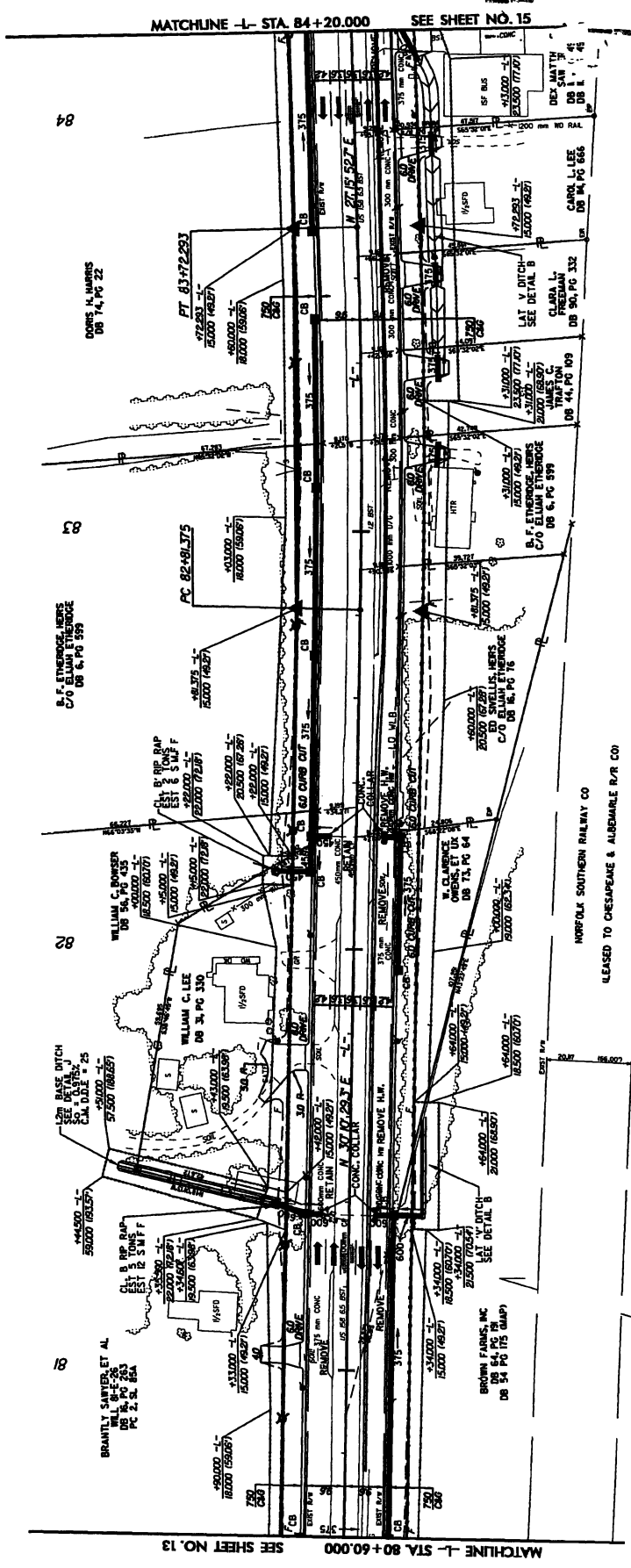
UTILITIES BY OTHERS

NOTE: UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



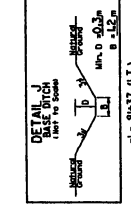
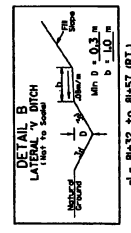
CONTRACT NO. R/W REV.

NOTES:
 1. ALL RESIDENTIAL DRIVEWAY RADII ARE 15M UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 250 x 250.



303

PI STN 83+72.293
 Δ = 50.000
 L = 50.000
 R = 175.000
 SE = 60.25
 R/OFF = 50.625
 DS = 80 KM/H



BROWN FARMS, INC
 DB 84, PG 175 (DAMP)

BROWN FARMS, INC
 DB 84, PG 175 (DAMP)

NORFOLK SOUTHERN RAILWAY CO
 LEASED TO CHESAPEAKE & ALBEMARLE R/R CO

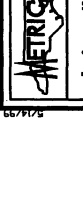
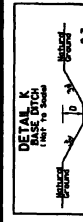
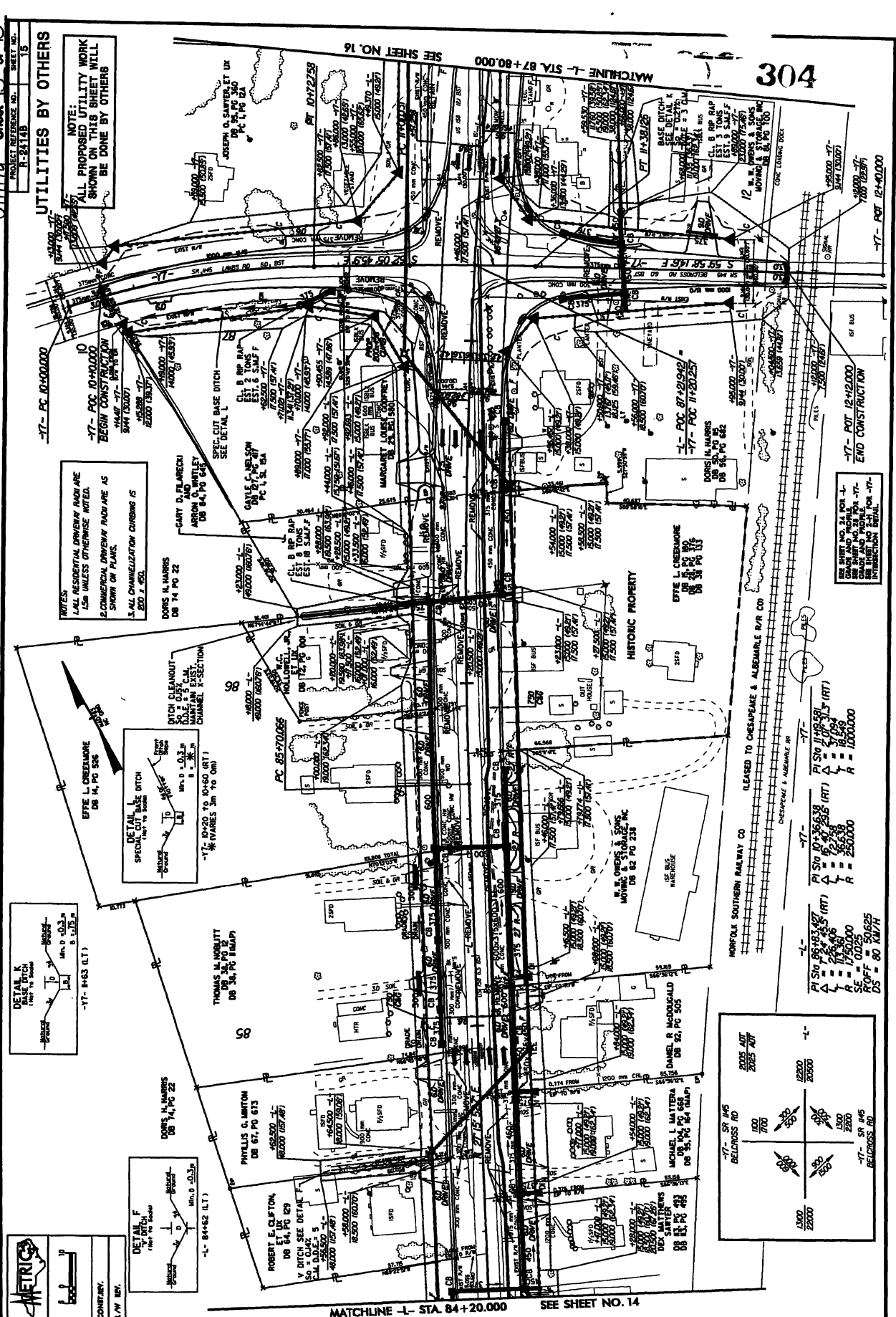
MATCHLINE ←- STA 84+20.00 SEE SHEET NO. 15

SEE SHEET NO. 13 MATCHLINE ←- STA 80+60.00

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADIUS ARE 5M UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADIUS ARE SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS 600 P.C.S.





307

**North Carolina Department of Environment and Natural Resources
Division of Water Quality**

Michael F. Easley, Governor

William G. Ross, Jr., Secretary
Alan W. Klimek, P.E., Director

August 11, 2004

RECEIVED
AUG 17 2004

NC Dept of Transportation
Attn: Mr. Marshall Clawson
1548 Mail Service Center
Raleigh, NC 27699-1548

**DIVISION OF HIGHWAYS
HYDRAULICS UNIT**

Subject: Stormwater Permit No. SW7040508
US 158 - NC34 Widening
General Stormwater Permit
Camden County

R-244B

Dear Mr. Clawson:

The Washington Regional Office received the completed Stormwater Application and supporting information on July 7, 2004. 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. SW7040701 dated August 11, 2004 to the NC Department of Transportation for the subject project.

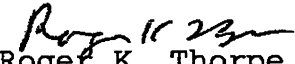
This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein. Any future development at this site will require an additional Stormwater review and a permit for any Stormwater control measures deemed appropriate.

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, 6714 Mail Service Center, Raleigh, NC 27699-6714. Unless such demands are made this permit shall be final and binding.

NC Department of Transportation
August 11, 2004
Page Two

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

Sincerely,


Roger K. Thorpe
Acting Water Quality Supervisor
Washington Regional Office

cc: Washington Regional Office
Central Files

State Stormwater Management Systems
Permit No. SW7040701

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

STATE STORMWATER MANAGEMENT PERMIT

GENERAL 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
Camden County

FOR THE

construction, operation and maintenance of stormwater management systems 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 for BMP measures that divert drainage to vegetated swales for the US 158 - NC 34 widening project in Camden County.

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. This project involves the widening of US 158 - NC 34 in Camden County. BMP measures will divert roadway drainage to grassed swales on either side of the highway. Direct stormwater discharges and wetland impacts have been minimized.
2. Approved plans and specifications for projects covered by this permit are incorporated by reference and are enforceable parts of the permit.
3. No stormwater piping in addition to the proposed piping shall be allowed except:

- a. That minimum amount necessary to direct runoff beneath an impervious surface such as a road.
- b. That minimum amount needed under driveways to provide access to lots.

II. SCHEDULE OF COMPLIANCE

1. Grasslined swales, vegetated buffers and other Best Management Practices used for stormwater runoff control shall be adequately maintained throughout the life of the project.
2. The permittee shall at all times provide adequate erosion control measures in conformance with the approved Erosion Control Plan.
3. The permittee shall submit all information requested by the Director or his representative within the time frame specified in the written information request.

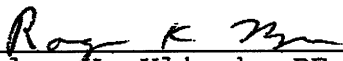
III. GENERAL CONDITIONS

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 may be modified, revoked or terminated for cause. The filing of a request for a permit modification, or termination does not void any permit condition.
3. The issuance of this permit does not prohibit the Director from reopening and modifying 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.
4. The following items will require a modification to the permit:
 - a. Any revision to the approved plans, regardless of size
 - b. Project name change
 - c. Change of ownership
 - d. Redesign or addition to the approved amount of built-upon area.
 - e. Further subdivision of the project area

- f. In addition, the Director may determine that other revisions to the project should require a modification to the permit.
5. For any additions or modifications of the previously permitted built-upon area, the permittee shall submit to the Director revised plans and specifications and shall receive approval prior to construction.
6. 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.
7. 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.
8. 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.

Permit issued this the 11 th day of August, 2004.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



Alan W. Klimek, PE, Director
Division of Water Quality
By Authority of the Environmental Management Commission

Permit Number SW7040701



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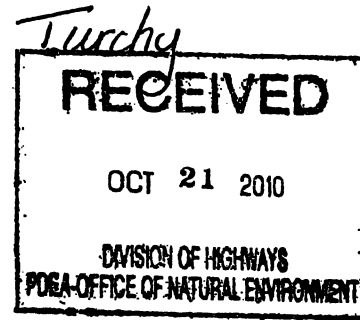
North Carolina Department of Environment and Natural Resources

Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

October 20, 2010



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

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water with ADDITIONAL CONDITIONS for Proposed improvements to US 158/NC 34 from East of the Pasquotank River to the US 158/NC 34 split in Camden County, Federal Aid Project No. STP-158(2), TIP R-2414A and R-2414B.
DWQ Project No. 20081602 v.3
WQC No. 003774

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 003774 issued to The North Carolina Department of Transportation (NCDOT) dated December 18, 2008.

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

Sincerely,

Coleen H. Sullins
for Coleen H. Sullins
Director

Attachments

- cc: Bill Biddlecome, US Army Corps of Engineers, Washington Field Office
- Jerry Jennings, PE, Acting Division 1 Engineer
- Clay Willis, Division 1 Environmental Officer
- Chris Militscher, Environmental Protection Agency
- Travis Wilson, NC Wildlife Resources Commission (electronic copy only)
- Cathy Brittingham, Division of Coastal Management
- Garcy Ward, DWQ, Washington Regional Office
- File Copy

Transportation Permitting Unit
1650 Mail Service Center, Raleigh, North Carolina 27699-1650
Location: 2321 Crabtree Blvd. 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

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

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to convert 0.04 acres of previously approved hand clearing impacts to 0.04 acres of mechanized clearing (for a project total of 14.55 acres) in Camden County. The project shall be constructed pursuant to the modification dated received October 7, 2010. **This certification does not allow any additional impacts to jurisdictional streams.** The authorized impacts are as described below:

Wetland Impacts in the Pasquotank River Basin

Site	Fill (ac)	Fill (temporary)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing	Total Wetland Impact (ac)
INITIAL IMPACTS APPROVED FOR R-2414A						
TOTAL:	1.85	0.00	0.00	0.00	9.48	11.33
INITIAL IMPACTS APPROVED FOR R-2414B						
TOTAL:	2.41	0.00	0.10	0.00	0.95	3.46
ADDITIONAL IMPACTS APPROVED JUNE 28, 2010 FOR R-2414A						
TOTAL:	0.55	0.00	0.00	0.00	-0.55	0.00
ADDITIONAL IMPACTS APPROVED JUNE 28, 2010 FOR R-2414B						
TOTAL:	-0.20	0.00	-0.04	0.00	0.00	-0.24
TOTAL IMPACTS APPROVED PRIOR TO THIS CERTIFICATION						
TOTAL:	4.61	0.00	0.06	0.00	9.88	14.55
IMPACTS APPROVED WITH THIS CERTIFICATION R-2414A						
TOTAL:	0.00	0.00	0.00	0.00	0.00	0.00
IMPACTS APPROVED WITH THIS CERTIFICATION R-2414B						
Site 3	0.01	0	0	0	-0.01	0
Site 6	0.02	0	0	0	-0.02	0
Site 7	0.01	0	0	0	-0.01	0
TOTAL:	0.04	0.00	0.00	0.00	-0.04	0.00
TOTAL IMPACTS APPROVED FOR PROJECT						
TOTAL:	4.65	0.00	0.06	0.00	9.84	14.55

Total Wetland Impact for Project: 14.55 acres.

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

This approval is only valid for the purpose and design that you submitted in your modified application dated received October 14, 2010. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated December 18, 2008 as well as the clarification letter dated June 1, 2009 still apply except where superceded by this certification. Should your project change, you are required to notify NCDWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

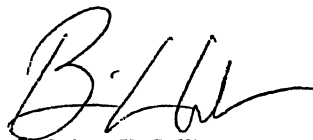
1. All other conditions written into the previous Water Quality Certification dated December 18, 2008 and the correction letter dated June 1, 2009 for this project still apply
2. This modification is applicable only to the additional proposed activities. All of the authorized activities and conditions of certification associated with the original Water Quality Certification dated December 18, 2008 and subsequent modifications still apply except where superceded by this certification.
3. Compensatory mitigation for impacts to an additional 0.04 acres riverine wetlands is required (a project total of 4.71 acres). 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 October 1, 2010 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.
4. Any mixing agent to be used in the mass soil mixing process stored onsite shall be stored in upland areas away from jurisdictional waters. Additionally, some type of containment fence shall be installed and maintained around storage areas as to protect jurisdictional waters from receiving any potential contaminated runoff from the storage area.
5. Should any dry or uncured mixing agent come in contact with jurisdictional waters, the NCDWQ shall be notified as quickly as possible; but no later than 24 hours after first knowledge that contact has occurred. If such contact should occur, the NCDOT and its contractors shall cease work immediately and take appropriate actions to remediate the contact. Work shall not begin again until the DWQ has been notified and the issue has been resolved to the NCDWQ's satisfaction.
6. The NCDOT and its contractors shall construct and properly install protective sheet piles and slope stabilization measures as appropriate. The measures shall be designed, installed, and maintained such that uncured mixed soil will not come in contact with surface waters.

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 20th day of October 2010

DIVISION OF WATER QUALITY


 Coleen H. Sullins
 Director



315

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

Beverly Eaves Perdue
Governor

James H. Gregson
Director

Dee Freeman
Secretary

December 9, 2010

N.C. Department of Transportation
Project Development and Environmental Analysis
1598 Mail Service Center
Raleigh, NC 27699-1598
ATTENTION: Michael Turchy

RE: Letter of Refinement, CAMA Major Development Permit No. 03-09, Widening of US 158/NC 34 from East of the Pasquotank River to the US 158/NC 34 split, Camden County, TIP No. R-2414.

Dear Mr. Turchy:

This letter is in response to the N.C. Department of Transportation's (NCDOT's) e-mail correspondences dated November 10, 2010 and November 24, 2010, including the 6 attached workplan drawings dated as revised November 2010. NCDOT would like to change out the material type for 3 culverts from reinforced concrete box culverts (RCBC) to aluminum culverts. The 3 culverts are located at Site 3, Site 6 and Site 7. The length of the aluminum culverts will remain the same, however the width of the culverts will increase, as depicted on the attached workplan drawings. The total impacts to wetlands and waters will not change.

Please be advised that through this **Letter of Refinement**, The Division of Coastal Management (DCM) conveys its determination that the above referenced request is consistent with existing State rules and regulations and is in keeping with the original purpose and intent of CAMA Permit No. 03-09 with the following conditions:

1. The authorized activity shall not result in any additional permanent or temporary impacts to wetlands or waters of the State.
2. All pipe and culvert bottoms shall be buried at least one foot below normal bed elevation when they are placed within the Public Trust Area of Environmental Concern (AEC) as designated by the Coastal Area Management Act (CAMA). Culverts placed in wetlands are not subject to this burial requirement.

3. This Letter of Refinement does not eliminate the need to obtain any additional state, federal or local permits, approvals or authorizations that may be required.
4. This Letter of Refinement shall be attached to the original of Permit No. 03-09 which was issued on 1/12/09, as well as all subsequent minor modifications and letters of refinement, and copies of all documents shall be readily available on site when a Division representative inspects the project for compliance.
5. All conditions and stipulations of the active permit remain in force under this Letter of Refinement unless altered herein.

Please contact Stephen Lane or Cathy Brittingham if you have any questions or concerns. Stephen can be reached at (252) 808-2808 or via e-mail at Stephen.Lane@ncdenr.gov. Cathy can be reached at (919) 733-2293 x238 or via e-mail at Cathy.brittingham@ncdenr.gov.

Sincerely,



Doug Huggett
Major Permits and Consistency Coordinator

Cc: Bill Biddlecome, USACE
Garcy Ward, DWQ
Stephen Lane, DCM
Cathy Brittingham, DCM
Clay Willis, NCDOT

Permit Class
MODIFICATION/MINOR

317

Permit Number
03-09

STATE OF NORTH CAROLINA
Department of Environment and Natural Resources
and
Coastal Resources Commission

Permit

for

Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

Excavation and/or filling pursuant to NCGS 113-229

Issued to N.C. Department of Transportation, 1598 Mail Service Center, Raleigh, NC 27699-1598

Authorizing development in Camden County at unnamed tributary to the Pasquotank River,
US 158 widening, as requested in the permittee's application letter dated 10/7/2010, including
the attached workplan drawings (13): 9 dated 9/28/2010; 1 dated 9/6/2010; and 3 dated 8/2010.

This permit, issued on 10/22/10, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

- 1) Unless specifically altered herein, this minor modification authorizes the following: use of the stabilization method termed "mass soil mixing" at sites 3, 6 and 7; and a change in position of the utilities that are to be directionally bored at sites 3, 6 and 7; all as depicted on the attached workplan drawings.
- 2) In accordance with commitments made by the permittee, no in-water work shall be conducted between February 15th to June 15th of any year without prior approval of the N.C. Division of Coastal Management (DCM), in consultation with the N.C. Wildlife Resources Commission (WRC).
- 3) The authorized soil mixture shall not be allowed to contact the water in or entering into the adjacent wetlands or Waters of the State until it no longer poses a threat to aquatic organisms.

(See attached sheet for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date. An appeal requires resolution prior to work initiation or continuance as the case may be.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.

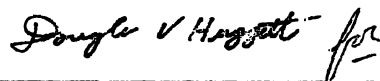
Any maintenance work or project modification not covered hereunder requires further Division approval.

All work must cease when the permit expires on

No expiration date, pursuant to GS 136-44.7B

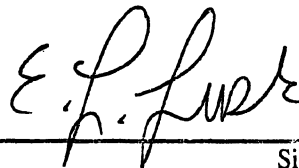
In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.

Signed by the authority of the Secretary of DENR and the Chairman of the Coastal Resources Commission.



James H. Gregson, Director
Division of Coastal Management

This permit and its conditions are hereby accepted.



Signature of Permittee

ADDITIONAL CONDITIONS

- 4) In accordance with commitments made by the permittee, impervious dikes shall be installed to provide a complete barrier between the soil mixing activity and the surrounding aquatic resources abutting this activity
- 5) Construction and removal of the impervious dikes is prohibited while the moratorium referenced in Condition No. 2 of this permit modification is in effect, without prior approval of DCM, in consultation with WRC.
- 6) The impervious dikes shall be properly maintained and retained until the soil mixture is complete and all of the work area contained by the impervious dikes has been stabilized. The impervious dikes shall be removed in a manner that does not cause or create the potential for sedimentation and erosion into wetlands or Waters of the State.
- 7) Construction staging areas shall not be located in wetlands or Waters of the State.

NOTE: The mass soil mixing will increase the project's total permanent wetland impacts by 0.04 acres. In accordance with the Ecosystem Enhancement Program (EEP) letter dated 10/1/10, compensatory mitigation for the additional permanent impacts of 0.04 acres of riparian wetlands shall be provided by the EEP

- 8) The authorized installation of utilities using the directional bore drilling method shall not result in any permanent or temporary impacts to wetlands or waters of the State, without permit modification.
- 9) The N.C. Division of Water Quality authorized a modification of the proposed project on 10/20/10 under Water Quality Certification No. C03774 (DWQ Project No. 20081602 v.3). Any violation of the Certification approved by DWQ shall be considered a violation of this CAMA permit.
- 10) This permit modification does not eliminate the need to obtain any additional state, federal or local permits, approvals or authorizations that may be required.
- 11) This minor modification shall be attached to the original of Permit No. 03-09, which was issued on 1/12/09, as well as the subsequent letter of refinement and modification, and copies of all documents shall be readily available on site when a Division representative inspects the project for compliance.
- 12) All conditions and stipulations of the active permit remain in force under this minor modification unless specifically altered herein.

NOTE: The U.S. Army Corps of Engineers has assigned the project COE Action ID. No. SAW-1994-02124.

Rivenbark, Chris

Subject: FW: R-2414 Removal of Sheeting During Moratorium Condition Modification

From: Brittingham, Cathy
Sent: Thursday, October 28, 2010 4:59 PM
To: Turchy, Michael A
Cc: Lane, Stephen; Wilson, Travis W.
Subject: RE: R-2414 Question

Hi Michael,

Thank you for coordinating with the N.C. Wildlife Resources Commission regarding Condition #5 of the minor modification of CAMA Major Permit No. 03-09 that was issued on 10/22/10 for TIP No. R-2414.

- 5) Construction and removal of the impervious dikes is prohibited while the moratorium referenced in Condition No. 2 of this permit modification is in effect, without prior approval of DCM, in consultation with WRC.

DCM conveys its approval to remove the impervious dike during the in-water moratorium in accordance with the e-mail below from the N.C. Wildlife Resources Commission on 10/28/10 and the e-mail below from NCDOT on 10/26/10.

Please let me or Stephen Lane know if you have any additional questions or concerns.

Sincerely,

Cathy Brittingham

From: Turchy, Michael A
Sent: Thursday, October 28, 2010 3:43 PM
To: Brittingham, Cathy
Subject: FW: R-2414 Question

Hi Cathy,

When I forwarded our permit conditions for the recent R-2414 to ensure they could be adhered to by all units of NCDOT, the Division expressed concern that time could be lost on the project if this sheeting must remain until the end of the anadromous fish moratorium. They requested that the words "and removal" be removed from Condition number 5 from the CAMA Permit, which states...

Construction and removal of the impervious dikes is prohibited while the moratorium referenced in Condition No. 2 of this permit modification is in effect, without prior approval of DCM, in consultation with WRC.

The Division committed to ensuring that the next condition (CAMA Condition #6) could still be adhered to even if the removal was during the moratorium.

Condition #6:

The impervious dikes shall be properly maintained and retained until the soil mixture is complete and all

10/29/2010

of the work area contained by the impervious dikes has been stabilized. The impervious dikes shall be removed in a manner that does not cause or create the potential for sedimentation and erosion into wetlands or Waters of the State.

I received the email below from Travis, indicating that WRC concurs with removal of the sheet piles during the moratorium, so long as we comply with the remaining conditions.

Due to this response, may I consider this conversation to be "prior approval from DCM, in consultation with WRC" to allow NCDOT to remove the words "and removal" from the CAMA Permit Condition No. 6, or will additional documentation be required?

Thanks for your consideration,
Michael

From: Wilson, Travis W.
Sent: Thursday, October 28, 2010 2:58 PM
To: Turchy, Michael A
Subject: RE: R-2414 Question

WRC concurs with allowing NCDOT to remove the sheet pile during the moratorium period as described below.

Travis W. Wilson
Eastern Region Highway Project Coordinator
Habitat Conservation Program
NC Wildlife Resources Commission
1142 I-85 Service Rd.
Creedmoor, NC 27522
Phone: 919-528-9886 ext. 6
Fax: 919-528-9839
Travis.Wilson@ncwildlife.org

From: Turchy, Michael A
Sent: Tuesday, October 26, 2010 4:40 PM
To: Wilson, Travis W.
Subject: R-2414 Question

Hi Travis,
I've got a question for you regarding the project R-2414, the widening of US 158/ NC 34, specifically along three culvert sites along the project.

As you probably viewed in our latest permit modification, NCDOT will be using a method called "mass soil mixing" at the approaches of the culverts due to poor soils and subsidence potential approaching the culverts. We are installing sheet piles to serve as impervious dikes as a protective measure to completely isolate this activity from the surrounding jurisdictional resources. The installation of these

10/29/2010

sheet piles will occur outside of the moratorium.

Division One has expressed concern that time could be lost on the project if this sheeting must remain until the end of the moratorium. They request that the words "and removal" be removed from Condition number 5 from the 10/22/2010 CAMA Permit, which states...

Construction and removal of the impervious dikes is prohibited while the moratorium referenced in Condition No. 2 of this permit modification is in effect, without prior approval of DCM, in consultation with WRC.

NCDOT is committed to ensuring that the next condition on the CAMA Permit, #6, be executed

The impervious dikes shall be properly maintained and retained until the soil mixture is complete and all of the work area contained by the impervious dikes has been stabilized. The impervious dikes shall be removed in a manner that does not cause or create the potential for sedimentation and erosion into wetlands or Waters of the State.

From WRC's standpoint, would it be possible to remove this sheeting during the moratorium, if the above conditions applied?

Thanks for your consideration,

Please let me know if there's any further information I can provide to help with your review.

-Michael

Michael Turchy, Environmental Supervisor
North Carolina Department of Transportation
PDEA | Natural Environment Unit

1598 Mail Service Center
Raleigh, NC 27699-1598

voice: (919) 431-6696
fax: (919) 431-2002

<http://www.ncdot.org/doh/preconstruct/pe/>

Email correspondence to and from this sender is subject to the N.C. Public Records Law and may be disclosed to third parties.

10/29/2010

WETLAND PERMIT IMPACT SUMMARY																	
Site No	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS										
			Permanent Fill In Wetlands (ha)	Temp Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Mechanized Clearing in Wetlands (ha)	Hand Clearing In Wetlands (ha)	Permanent SW impacts (ha)	Temp SW impacts (ha)	Existing Channel Impacts Permanent (m)	Existing Channel Impacts Temp (m)	Natural Stream Design (m)					
1	-L- 47+85 LT / 47+94 RT	1 @ 750 RCP						0.003									
2	-L- 51+80 LT / 51+95 RT	1 @ 750 RCP	0.036					0.020									
3	-L- 55+12 LT / 56+49 RT	1 @ 2.4m x 1.8m RCBC	0.265					0.106			0.003						8.8
	-L- 57+44 RT / 59+45 RT		0.120		0.038												
4	-L- 62+65 LT / 62+94 RT	1 @ 800 RCP	0.026					0.017									
5	-L- 67+19 LT / 67+70 RT	1 @ 750 RCP	0.032					0.024									
6	-L- 72+48 LT / 74+48 RT	2 @ 1.8m x 1.5m RCBC	0.345		0.003			0.151			0.004			28.0			6.5
Old Site 7	-L- 82+43 / 82+83 RT	SITE DELETED															
7	-L- 88+60L / 89+28L	1 @ 3.0m x 1.5m RCBC	0.154					0.064			0.004			25.4			5.7
TOTALS.			0.978		0.041			0.385			0.011		90.4				21.0

0.087 Ha of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures

Permit Drawing
Sheet 2 of 38

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CAMDEN COUNTY
PROJECT 8 T020401 (R-2414B)
US 158 - NC 34 WIDENING

June-08

SHEET

Project No. 8.T020401 (R-2414B)

Property Owner List

Site NO.	Property NO.	Name DB and Pg	Address
1	5	Pecan Farms LLC DB 237 PG 728	203 Dogwood Tr Elizabeth City NC 27909
2	16	Linda Sue Lamb Hinton WB 99E, PG 22	135 Cottonwood Dr Hertford NC 27944
	14	Fred E. Upton, Jr., ET UX DB 42, Pg 615 DB 111, Pg 278	165 US 158 West Camden NC 27921
	13	Fred E. Upton, Heirs DB 22, Pg 468 DB 111, Pg 401	165 US 158 West Camden, NC 27921
3	23	A & S Properties, LLC DB 157, Pg 769	913 Business Park Drive Chesapeake VA 23320
	24	Blue Sky Developments DB 138, Pg 109 PC-3, CL 77-B (PLAT)	300 Bridge Court #101 Camden NC 27921
	22	Ricky and Sheila Edwards DB 142, Pg 536	PO BOX 336 Shiloh NC 27994
	25	Camden County Board of Education DB 31, Pg 419 MB 18, Pg 551A DB 35, Pg 511 DB 62, Pg 15 DB 83, Pg 451	174 North 343 Camden NC 27921

(continued)

Permit Drawings
Sheet 3 of 38

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

CAMDEN COUNTY

PROJECT: 8.T020401 (R-2414B)
US 158 - NC 34 WIDENING

Project No. 8.T020401 (R-2414B)

Property Owner List

Site NO.	Property NO.	Name DB and Pg	Address
4	32	Mary M. Gordon DB 95, Pg 491 DB 116, Pg 890	104 North 343 Camden NC 27921
	34	Glen D. Gordon, ET UX DB 94, Pg 280 DB 83, Pg 679 DB 128, Pg 504 DB 87, Pg 181 (Post Office Lease) DB 132, Pg 160 (Store Leased)	128 Billet S. Bridge Rd Camden NC 27921
5	32	Mary M. Gordon DB 46, Pg 316A	104 North 343 Camden NC 27921
	39	TIDEWATER Agronomics	1601 N. Road St. Elizabeth City NC 27909
	38	Everything Real Estate LLC	PO Box 310 Camden NC 27921
	36	George Wood Farms, Inc. DB 115, Pg 607 DB 115, Pg 621	PO Box 159 Camden NC 29721
6	36	George Wood Farms, Inc. DB 115, Pg 607 DB 115, Pg 621	PO BOX 159 Camden NC 29721
	43	Albemarle Hospital, ET AL DB 120, Pg 372 DB 113, Pg 670 (MAP)	1144 North Road St. Elizabeth City NC 27909
	42	James Raebuck + Elliot W. Jacobs	PO BOX 1554 Elizabeth City NC 27906

(continued)

Permit Drawing
Sheet 4 of 38

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

CAMDEN COUNTY

PROJECT: 8.T020401 (R-2414B)
US 138 - NC 24 WIDENING

SHEET ___ OF ___

9/15/05

REVISED 2/20/06

Project No. 8.T020401 (R-2414B)

Property Owner List

Site NO.	Property NO.	Name DB and Pg	Address
6 (Cont.)	16A	Norfolk Southern Railway Co. (Leased to Chesapeake & Albemarle R/R Co)	3 Commercial Place Norfolk VA 23510
	44	Brown Farms, Inc. DB 64, Pg 191 DB 54, Pg 175 (MAP)	343 North 34 Camden NC 27921
	45	Belcross Properties LLC	PO BOX 26 Camden NC 27921
8	73	Doris H. Harris DB 33, Pg 604 PC 1, SL 15A	265 East US 158 Camden NC 27921
	74	W.W. Owens & Sons Moving & Storage, Inc	PO BOX 503 Elizabeth City NC 27909
	71	Joseph O. Sawyer, ET UX DB 95, Pg 360 PC 1, Pg 12A	640 North 343 Camden NC 29721
	75	Linda S. Demuth, ET AL DB 119, Pg 930	Wilhelmshoeh 27A Forchheim GR 91301
	72	W.W. Owens & Sons Moving & Storage, Inc. DB 81, Pg 700	PO Box 503 Elizabeth City NC 27909
	76	Horace Melville Cuthrell, Jr., ET UX DB 78, Pg 809 PC 1, 163A	109 North 343 Camden NC 27921
	77	Wallace G. Cahoon DB 79, Pg 413 PC 1, SL 1A	1540 Cedar Road Chesapeake VA 23320

Permit Drawing
Sheet 5 of 38

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

CAMDEN COUNTY

PROJECT: 8.T020401 (R-2414B)
US 158 - NC 34 WIDENING

SHEET ___ OF ___

9/15/05

CONTRACT: TIP PROJECT: R-2414B

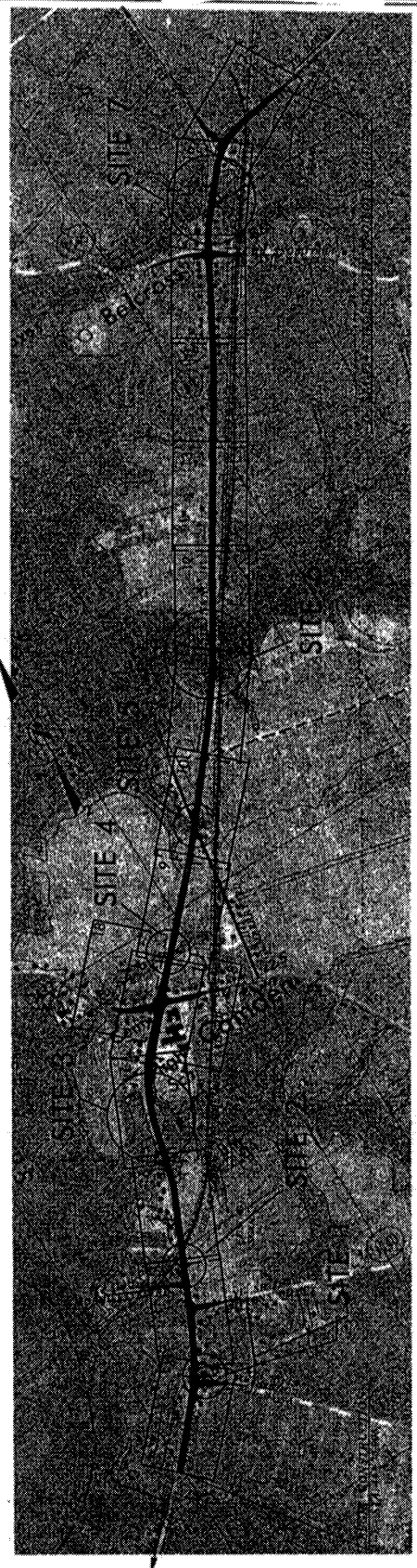
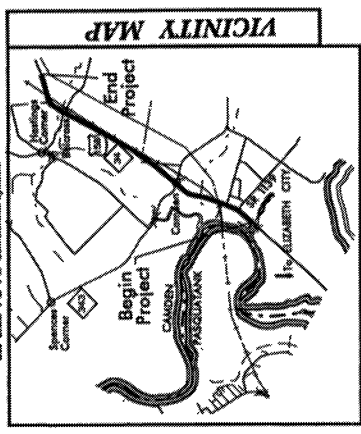
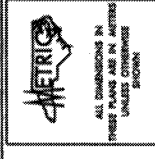
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CAMDEN COUNTY

LOCATION: US 158-NC 34 FROM NORTH OF SR 1257
TO EAST OF NC 34 IN BELCROSS

TYPE OF WORK: GRADING, DRAINAGE, PAVING,
CURB & GUTTER, CULVERTS & SIGNALS

PROJECT NO.	R-2414B
DATE	3/4/09
DESIGNER	EDWARD G. WETHERILL, PE
CHECKER	BOB A. MAY, PE
DATE CHECKED	NOVEMBER 17, 2009
PROJECT ENGINEER	EDWARD G. WETHERILL, PE
PROJECT ENGINEER	BOB A. MAY, PE
DATE	NOVEMBER 17, 2009
PROJECT CONTACT	B. DOUGLAS TAYLOR, PE
PROJECT CONTACT	BOB A. MAY, PE
DATE	NOVEMBER 17, 2009

Permit Drawing
Sheet 0 of 38



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEANING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

GRAPHIC SCALES

PLANS	1" = 100'
PROFILE (HORIZONTAL)	1" = 100'
PROFILE (VERTICAL)	1" = 10'

DESIGN DATA

ADT (2009)	= 26,000
ADT (2029)	= 41,500
DRY	= 12%
D	= 40%
T	= 6%
V	= 80 km/h

* (TST) 2%+ DUAL 4%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2414B	= 4.823 Km
TOTAL LENGTH TIP PROJECT R-2414B	= 4.823 Km

RIGHT OF WAY DATE: NOVEMBER 15, 2006
LETTING DATE: NOVEMBER 17, 2009

PROJECT ENGINEER: EDWARD G. WETHERILL, PE
PROJECT ENGINEER: BOB A. MAY, PE

CONTACT: B. DOUGLAS TAYLOR, PE
CONTACT: BOB A. MAY, PE

PRELIMINARY PLANS

HYDRAULICS ENGINEER: J.A.
ROADWAY DESIGN ENGINEER: J.A.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. SHEET NO. 4
 R-2414A
 ROADWAY DESIGN
 HYDRAULICS
 ENGINEER

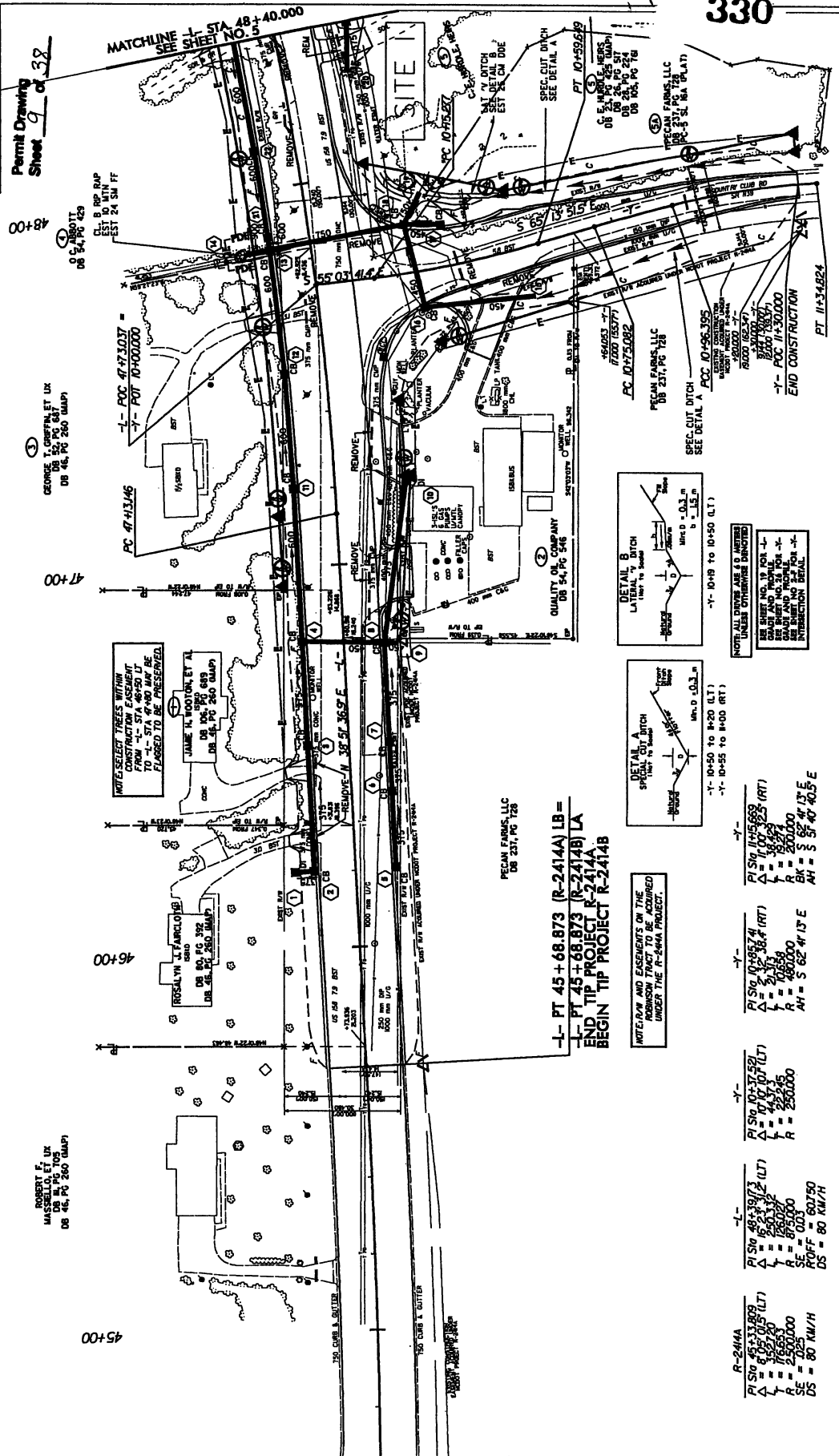
TRINITY CONSULTING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 339-1111

TRINITY CONSULTING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 339-1111

DEMOLITION HAND CLEARING

REVISIONS

R/W REVISION - REVISED R/W ALONG 'L' & 'Y' TO SHOW
 BEING ACQUIRED UNDER MOBOT PROJECT R-2414A.DM
 R/W REVISION - REVISED R/W ALONG 'L' & 'Y' TO SHOW
 PROPERTY OWNER NAME ON PARCEL M0456M



Permit Drawing
 Sheet 9 of 38

48+00

GEORGE T. GRIFFIN, ET UX
 DB 54, PG 281
 DB 48, PG 280 (MAP)

47+00

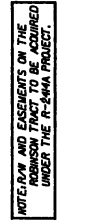
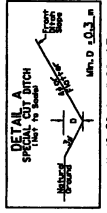
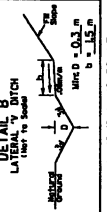
NOTE: SELECT TREES TO BE
 PRESERVED FROM 'L' STA 46+50 LT
 TO 'L' STA 47+00 MAY BE
 FLAGGED TO BE PRESERVED

46+00

ROBERT F. UX
 DB 54, PG 281
 DB 48, PG 280 (MAP)

45+00

L- PT 45 + 68.873 (R-2414A) LB =
L- PT 45 + 68.873 (R-2414B) LA
END TIP PROJECT R-2414A
BEGIN TIP PROJECT R-2414B



NOT ALL TYPED ARE TO BE
 UNLESS OTHERWISE NOTED

Y- 10+50 TO 10+50 (LT)
 Y- 10+55 TO 10+00 (RT)

NOTE: RAW AND EASEMENTS ON THE
 ROBINSON TRACT TO BE ACQUIRED
 UNDER THE R-2414A PROJECT.

R-2414A
 PLSW 45+33.809
 Δ = 605.015 (LT)
 L = 166.653
 R = 2500.000
 SE = 0.025
 DS = 80 KM/H

R-2414A
 PLSW 46+39.713
 Δ = 605.015 (LT)
 L = 166.653
 R = 2500.000
 SE = 0.025
 DS = 80 KM/H

R-2414A
 PLSW 47+37.521
 Δ = 605.015 (LT)
 L = 166.653
 R = 2500.000
 SE = 0.025
 DS = 80 KM/H

R-2414A
 PLSW 48+39.713
 Δ = 605.015 (LT)
 L = 166.653
 R = 2500.000
 SE = 0.025
 DS = 80 KM/H

PECAN FARMS, LLC
 DB 54, PG 280

QUALITY AS COMPANY
 DB 54, PG 280

PECAN FARMS, LLC
 DB 237, PG 128

PECAN FARMS, LLC
 DB 237, PG 128

PECAN FARMS, LLC
 DB 237, PG 128

PECAN FARMS, LLC
 DB 237, PG 128

PECAN FARMS, LLC
 DB 237, PG 128

PT 10+59.529

PT 10+75.082

PT 10+96.395

PT 10+96.395

PT 10+96.395

PT 10+96.395

PT 10+96.395

PT 10+96.395

PT 10+96.395

PT 10+96.395

PT 10+96.395

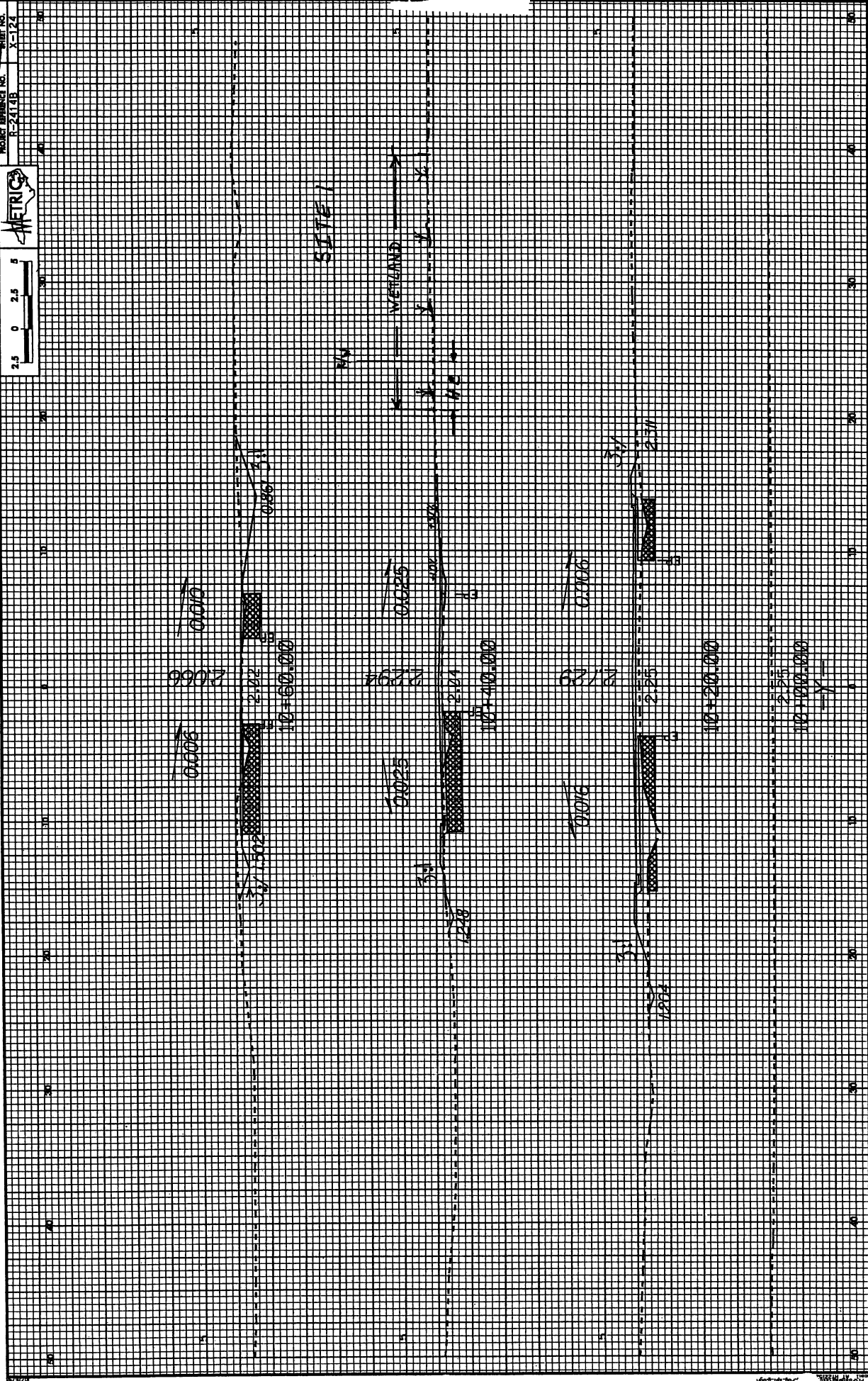
PT 10+96.395

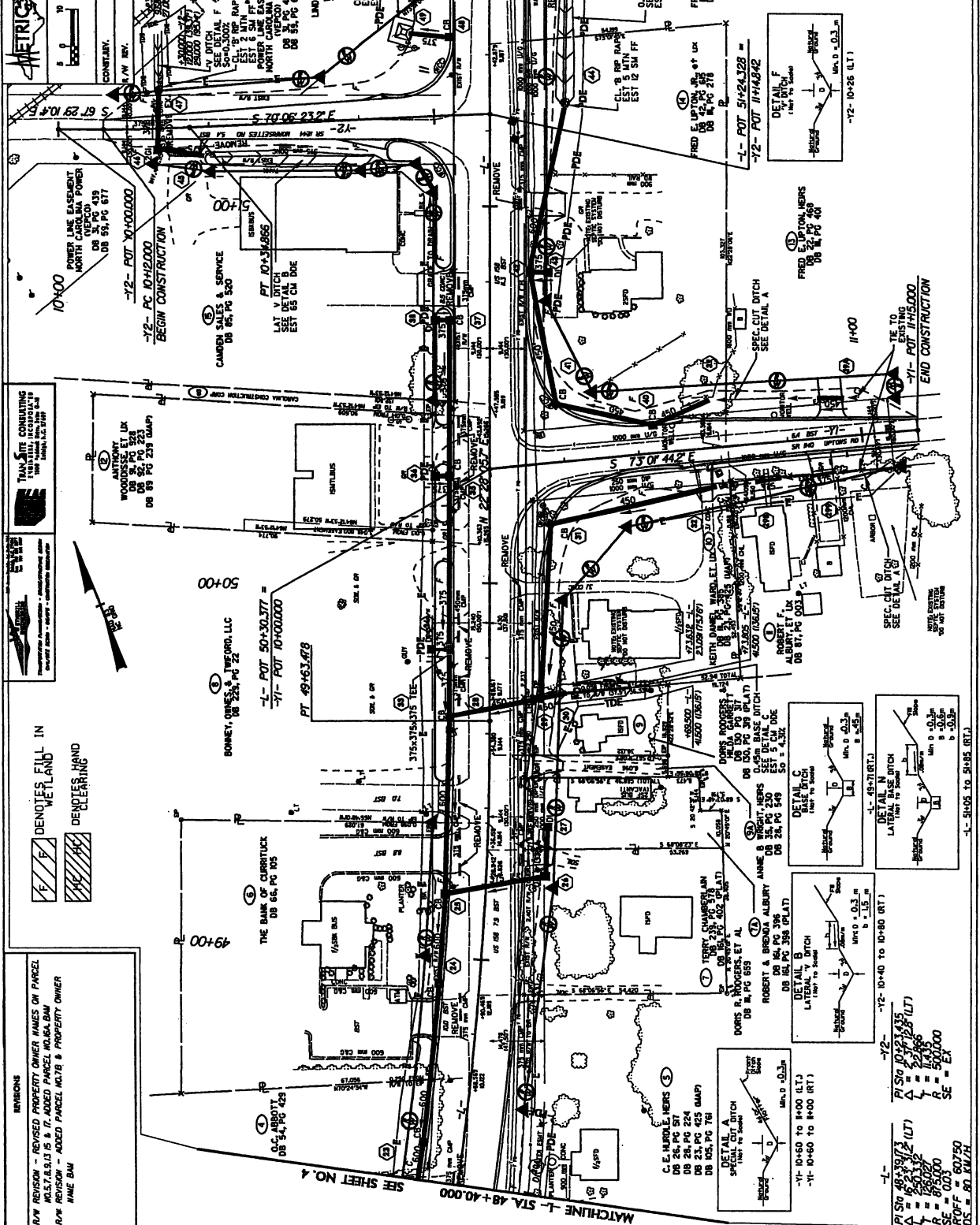
PT 10+96.395

Permit Drawing
Sheet 10 of 38



PROJECT NO.	10-24118
SHEET NO.	X-124





332

REVISIONS
R/W REVISION - REVISED PROPERTY OWNER NAMES ON PARCEL
R/W REVISION - ADDED PARCEL NO. 5A, BAW
R/W REVISION - ADDED PARCEL NO. 7B & PROPERTY OWNER NAME BAW

TRANSITS CONSULTING
1000 W. 10TH ST. SUITE 100
DENVER, CO 80202
TEL: 303.733.1111
WWW.TRANSITS.COM

THE BANK OF AMERICA
DB 66, PG 405

BOHNET, DANIEL & WIFE, LLC
-L- POT 50+30.377 =
-1- POT 10+00.000

ANTHONY, LUCAS
DB 58, PG 328
DB 59, PG 329
DB 60, PG 330
DB 61, PG 331
DB 62, PG 332
DB 63, PG 333
DB 64, PG 334
DB 65, PG 335
DB 66, PG 336
DB 67, PG 337
DB 68, PG 338
DB 69, PG 339
DB 70, PG 340

WOODRIDGE, JAMES
DB 54, PG 429

THE BANK OF AMERICA
DB 66, PG 405

BOHNET, DANIEL & WIFE, LLC
-L- POT 50+30.377 =
-1- POT 10+00.000

ANTHONY, LUCAS
DB 58, PG 328
DB 59, PG 329
DB 60, PG 330
DB 61, PG 331
DB 62, PG 332
DB 63, PG 333
DB 64, PG 334
DB 65, PG 335
DB 66, PG 336
DB 67, PG 337
DB 68, PG 338
DB 69, PG 339
DB 70, PG 340

REVISIONS
R/W REVISION - REVISED PROPERTY OWNER NAMES ON PARCEL
R/W REVISION - ADDED PARCEL NO. 5A, BAW
R/W REVISION - ADDED PARCEL NO. 7B & PROPERTY OWNER NAME BAW

TRANSITS CONSULTING
1000 W. 10TH ST. SUITE 100
DENVER, CO 80202
TEL: 303.733.1111
WWW.TRANSITS.COM

THE BANK OF AMERICA
DB 66, PG 405

BOHNET, DANIEL & WIFE, LLC
-L- POT 50+30.377 =
-1- POT 10+00.000

ANTHONY, LUCAS
DB 58, PG 328
DB 59, PG 329
DB 60, PG 330
DB 61, PG 331
DB 62, PG 332
DB 63, PG 333
DB 64, PG 334
DB 65, PG 335
DB 66, PG 336
DB 67, PG 337
DB 68, PG 338
DB 69, PG 339
DB 70, PG 340

WOODRIDGE, JAMES
DB 54, PG 429

THE BANK OF AMERICA
DB 66, PG 405

BOHNET, DANIEL & WIFE, LLC
-L- POT 50+30.377 =
-1- POT 10+00.000

ANTHONY, LUCAS
DB 58, PG 328
DB 59, PG 329
DB 60, PG 330
DB 61, PG 331
DB 62, PG 332
DB 63, PG 333
DB 64, PG 334
DB 65, PG 335
DB 66, PG 336
DB 67, PG 337
DB 68, PG 338
DB 69, PG 339
DB 70, PG 340



PROJECT NUMBER: P-21148
SHEET NO. Y-16

334



52400100

SITE 1

SITE 2

WELLHEAD

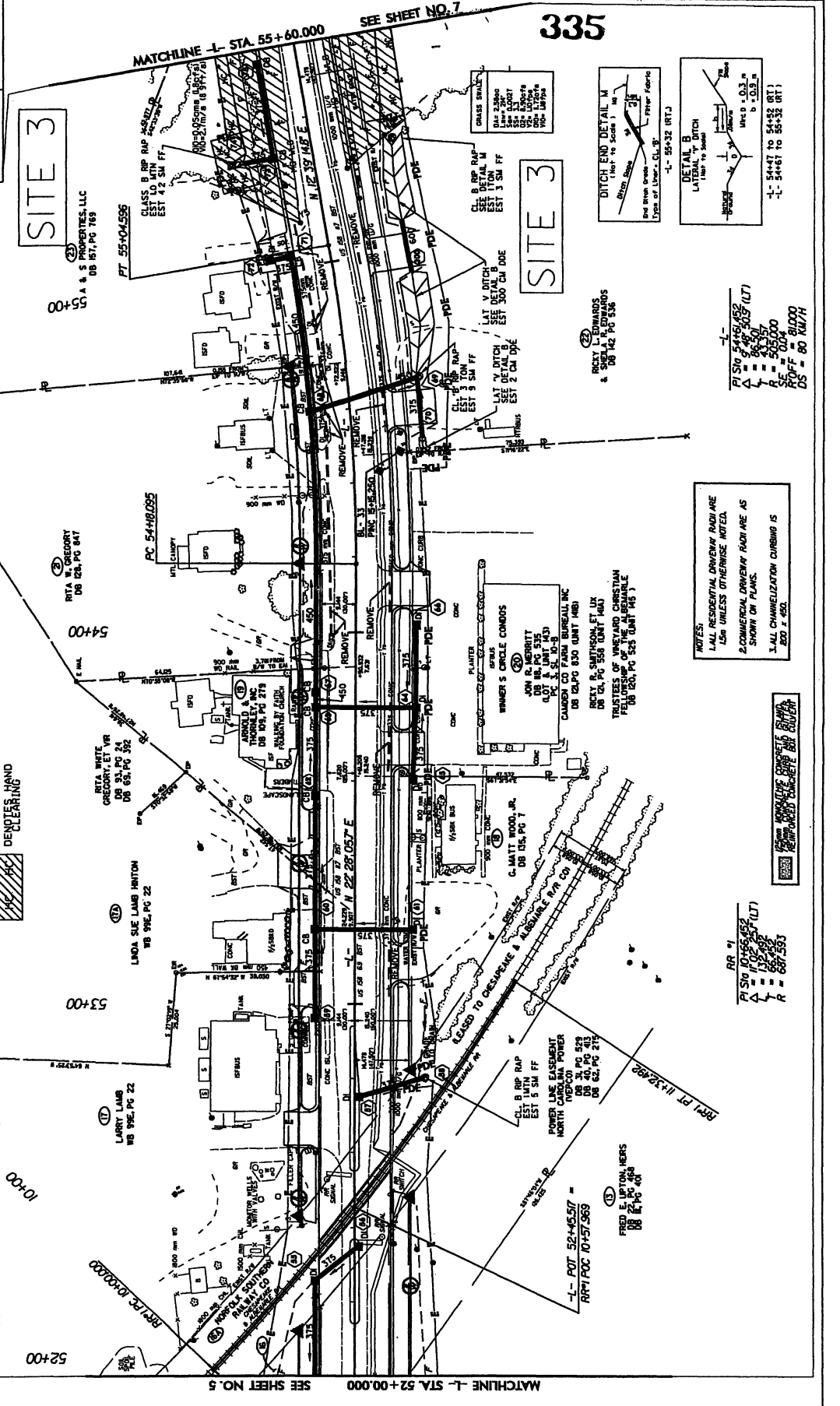
FEEL
FOR
WELLHEAD

PROJECT NO. 14-0000
SHEET NO. 14
ROADWAY DESIGN ENGINEER
METRIC
CONTRACTOR
R. W. BRY

THANALITE CONSULTING
INCORPORATED
1000 W. 10th Street, Suite 100
Tulsa, Oklahoma 74103
Tel: 918.438.1111
Fax: 918.438.1112

REVISIONS
10/27/08 - REVISED ROW AND TIE ON PARCEL 22(A)P1
10/27/08 - REVISED PROPERTY OWNER NAMES ON PARCEL 22(A)P1
10/27/08 - REVISED PROPERTY OWNER NAME ON PARCEL 22(A)P1
10/27/08 - REVISED PROPERTY OWNER NAME ON PARCEL 22(A)P1
10/27/08 - REVISED PROPERTY OWNER NAME ON PARCEL 22(A)P1

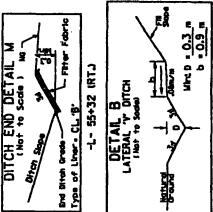
DEMOLISH FILL IN WETLAND
DEMOLISH HAND CLEARING



335

SITE 3
A & S PROPERTIES, LLC
DB 157, PG 789

SITE 3



PI STG 54+51.452
A = 44.500 (LT)
L = 86.500
R = 50.500
SE = 50.00
PROFF = 80.000
DS = 80.000

NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADI ARE
1/4" UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADI ARE AS
SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS
200 X 450.

RR #1
PI STG 10+55.452
A = 110.500 (LT)
L = 110.500
R = 60.500

RR #1
PI STG 10+55.452
A = 110.500 (LT)
L = 110.500
R = 60.500

RR #1
PI STG 10+55.452
A = 110.500 (LT)
L = 110.500
R = 60.500

RR #1
PI STG 10+55.452
A = 110.500 (LT)
L = 110.500
R = 60.500

RR #1
PI STG 10+55.452
A = 110.500 (LT)
L = 110.500
R = 60.500

RR #1
PI STG 10+55.452
A = 110.500 (LT)
L = 110.500
R = 60.500

RR #1
PI STG 10+55.452
A = 110.500 (LT)
L = 110.500
R = 60.500

TRAC
 PROJECT NO. 15-000
 SHEET NO. 15
 ROADWAY DESIGN
 METRIC ENGINEER

TRAC CONSULTING
 1000 W. 10th St. Suite 100
 Grand Rapids, MI 49503
 Phone: 616.276.1100

CONTRACT
 A/W REV.

TRAC
 PROJECT NO. 15-000
 SHEET NO. 15
 ROADWAY DESIGN
 METRIC ENGINEER

TRAC CONSULTING
 1000 W. 10th St. Suite 100
 Grand Rapids, MI 49503
 Phone: 616.276.1100

CONTRACT
 A/W REV.

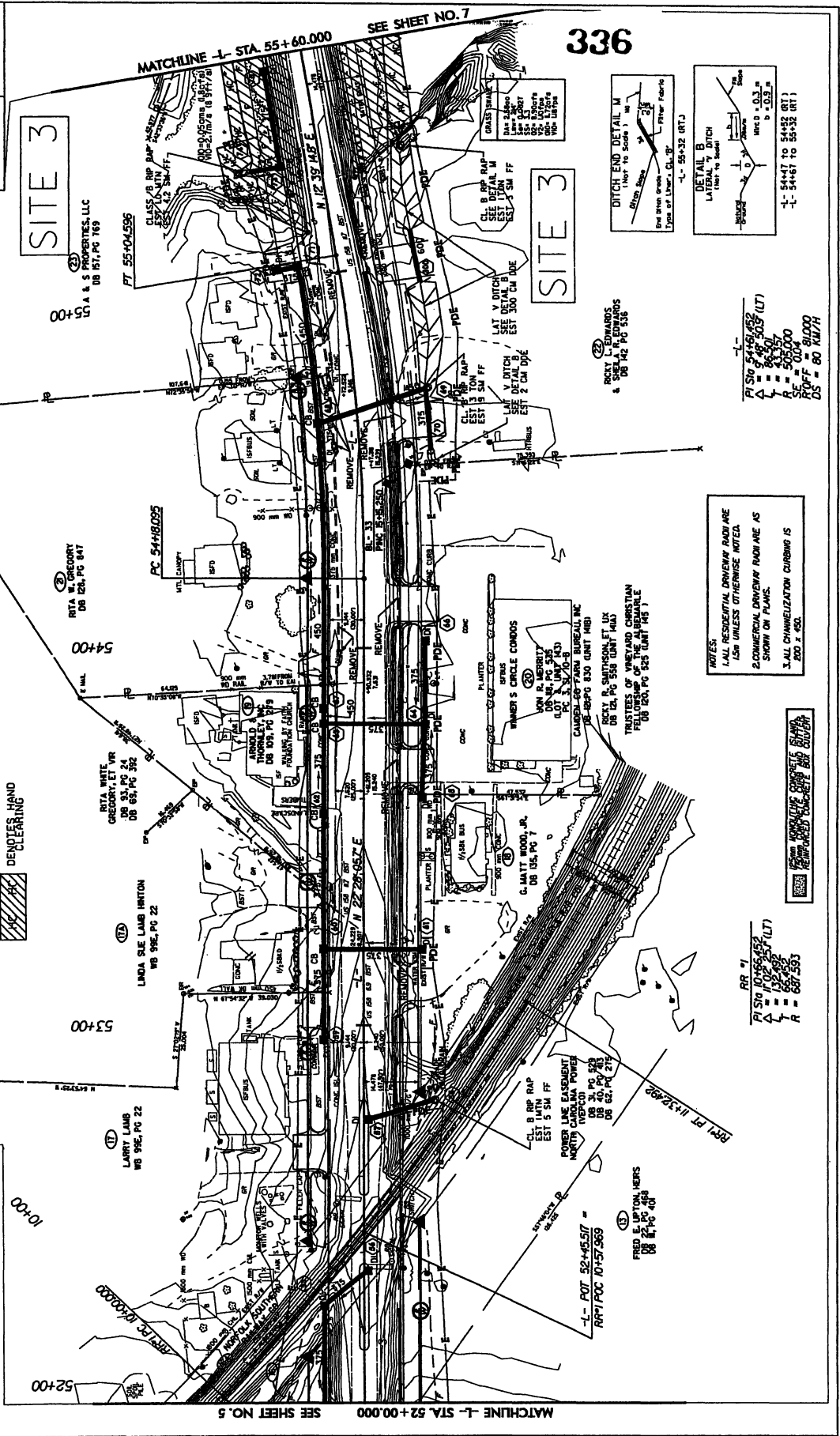
REVISIONS

1/10/05 - REVISED ROW AND TCE ON PARCEL 22/ABP1
 R/W REVISION - REVISED PROPERTY OWNER NAMES ON PARCEL
 NO.17,18,19,20,21 & 23. ADDED PARCEL NO.6A & 7A. BAW
 R/W REVISION - REVISED PROPERTY OWNER NAME ON PARCEL
 NO.22.BAW

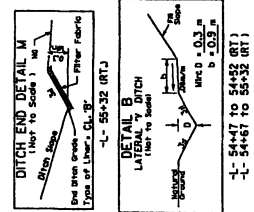
LEGEND

DEMOLISH FILL IN WETLAND

DEMOLISH HAND CLEARING



336



NOTES

1. ALL RESIDENTIAL DRIVEWAY RADI ARE 15M UNLESS OTHERWISE NOTED.

2. COMMERCIAL DRIVEWAY RADI ARE AS SHOWN ON PLANS.

3. ALL CHANNELIZATION CURBING IS 200 x 100.

RR #1

PI SW 10+55.452
 Δ = 100.00 (LT)
 L = 132.692
 R = 667.553

RR #1

PI SW 10+55.452
 Δ = 100.00 (LT)
 L = 132.692
 R = 667.553

SITE 3

SITE 3

MATCHLINE L- STA. 55+60.000 SEE SHEET NO. 7

MATCHLINE L- STA. 52+00.000 SEE SHEET NO. 5

RR#1 POC 01+57.969

RR#1 POC 01+57.969

RR#1 POC 01+57.969

RR#1 POC 01+57.969

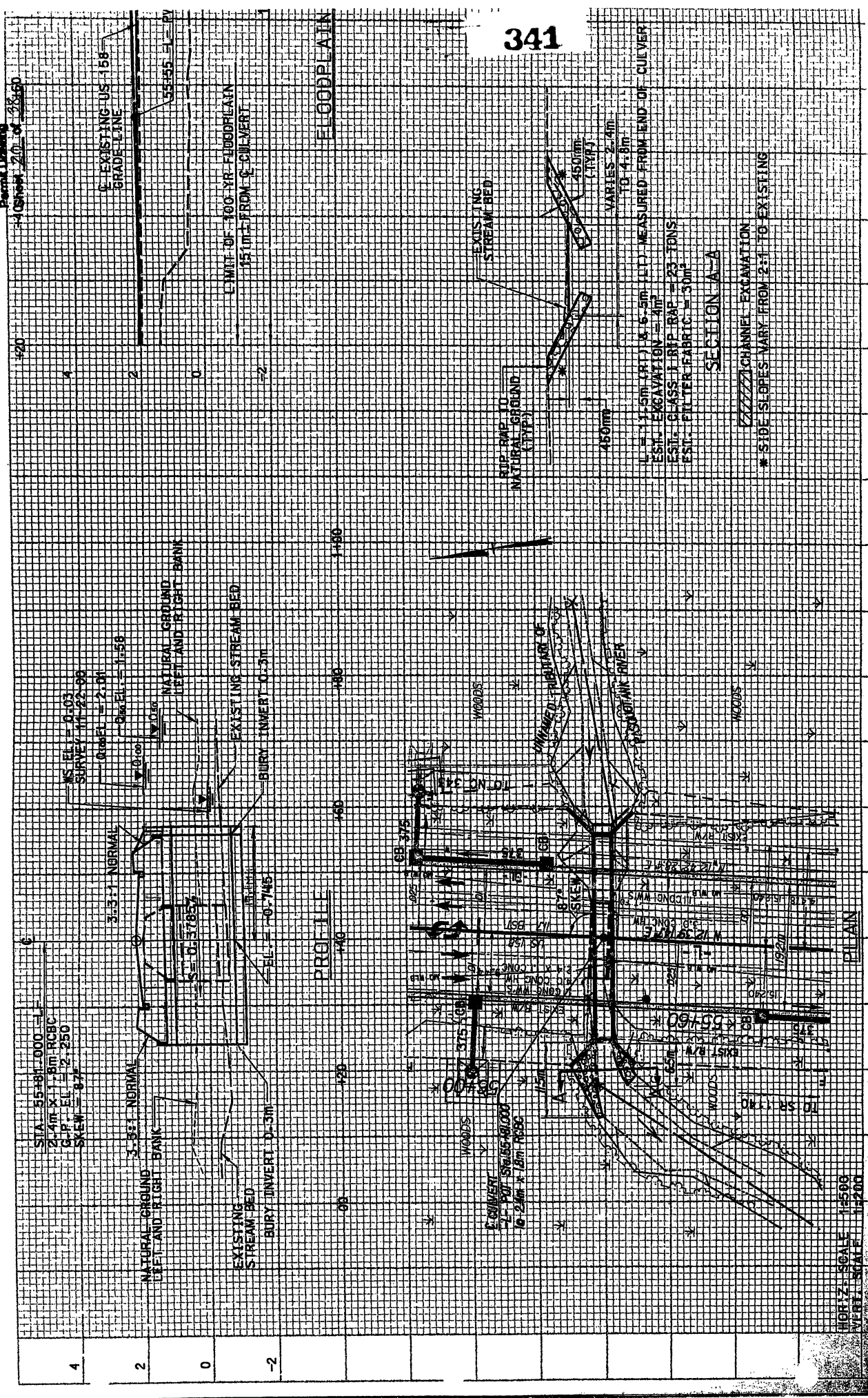
RR#1 POC 01+57.969

RR#1 POC 01+57.969

RR#1 POC 01+57.969

Permit Drawing
 -10 Sheet 2.0 of 28660

341



STA 15+81.000 = L
 2.4M x 1.8M RCBC
 G.P. EL = 2.250
 SKEW = 8.7°

MS. EL = 0.03
 SURVEY 11/22/00
 0+00 EL = 2.01
 0+00 EL = 1.56

3:1 NORMAL

3:1 NORMAL

NATURAL GROUND
 LEFT AND RIGHT BANK

NATURAL GROUND
 LEFT AND RIGHT BANK

EXISTING STREAM BED

EXISTING STREAM BED

BURY INVERT 0.3M

BURY INVERT 0.3M

EL = -0.745

PROFILE

FLOODPLAIN

LIMIT OF 100 YR FLOODPLAIN
 151M FROM CULVERT

1+80

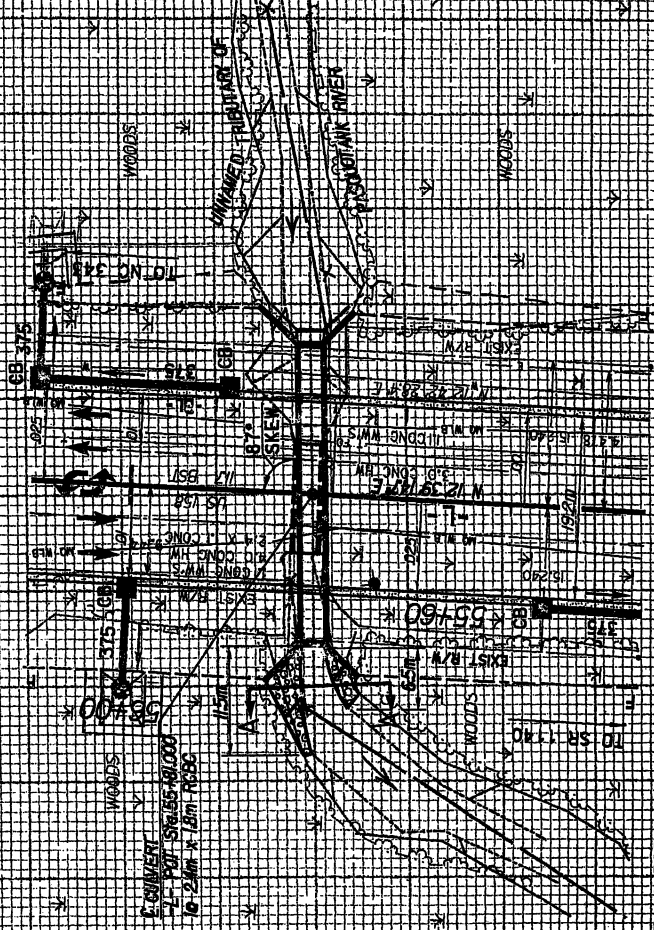
1+80

1+80

1+80

1+80

1+80



CEMENT
 12.5M STRENGTH
 10.2M x 1.8M MSB

EXISTING
 STREAM BED

RIP-RAP TO
 NATURAL GROUND
 (1.5M)

450mm
 (1.5M)

VARIES 2.4M
 TO 4.8M
 L = 1.5M (RT) & 6.5M (LT) MEASURED FROM END OF CULVERT
 EST. EXCAVATION = 4M³
 EST. CLASS II MP RAP = 23 TONS
 EST. FILTER FABRIC = 30M²

SECTION A-A

CHANNEL EXCAVATION

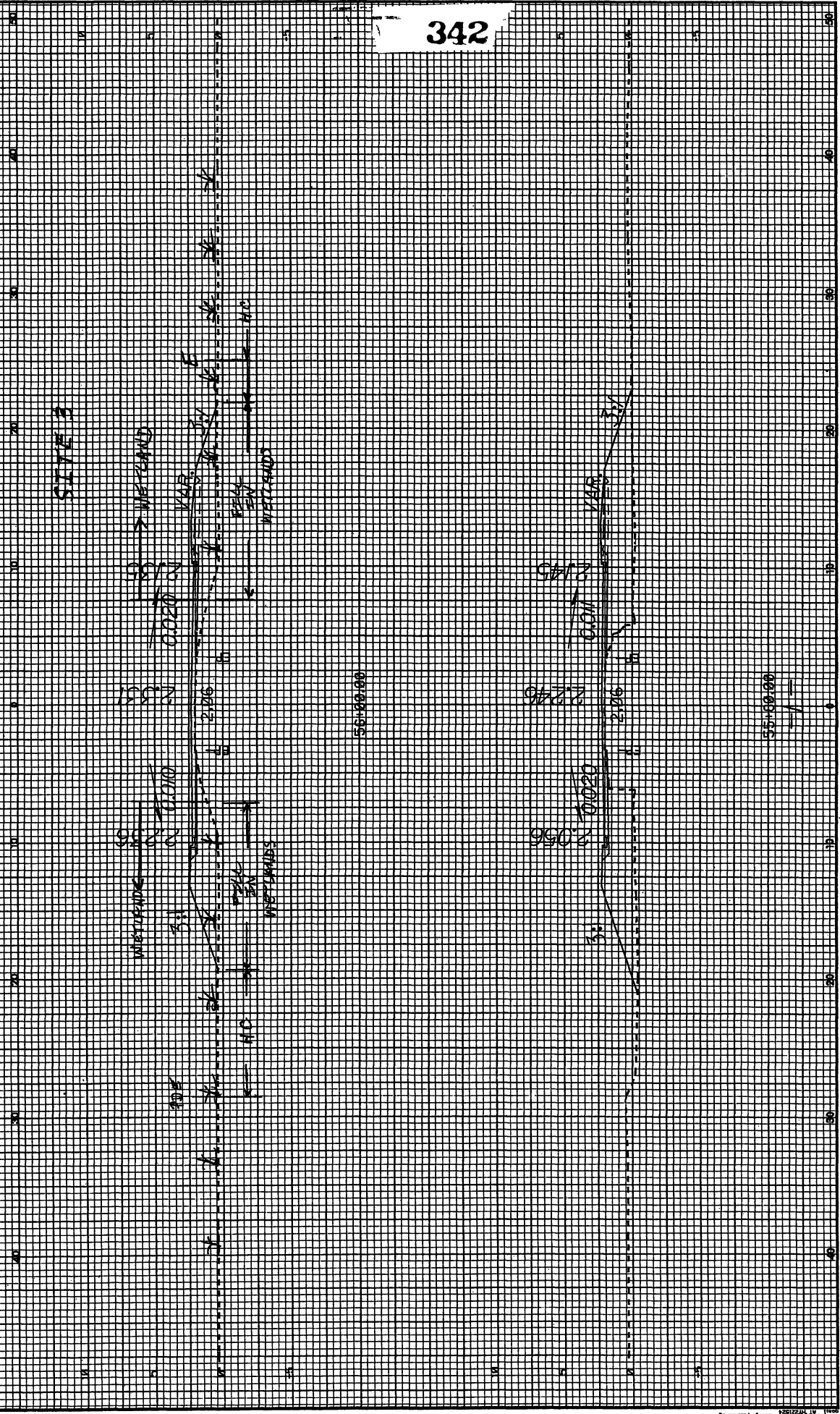
* SIDE SLOPES VARY FROM 2:1 TO EXISTING

HORIZ. SCALE 1"=50'
 VERT. SCALE 1"=20'

PROJECT REFERENCE NO. R-2414B
SHEET NO. X-26



342

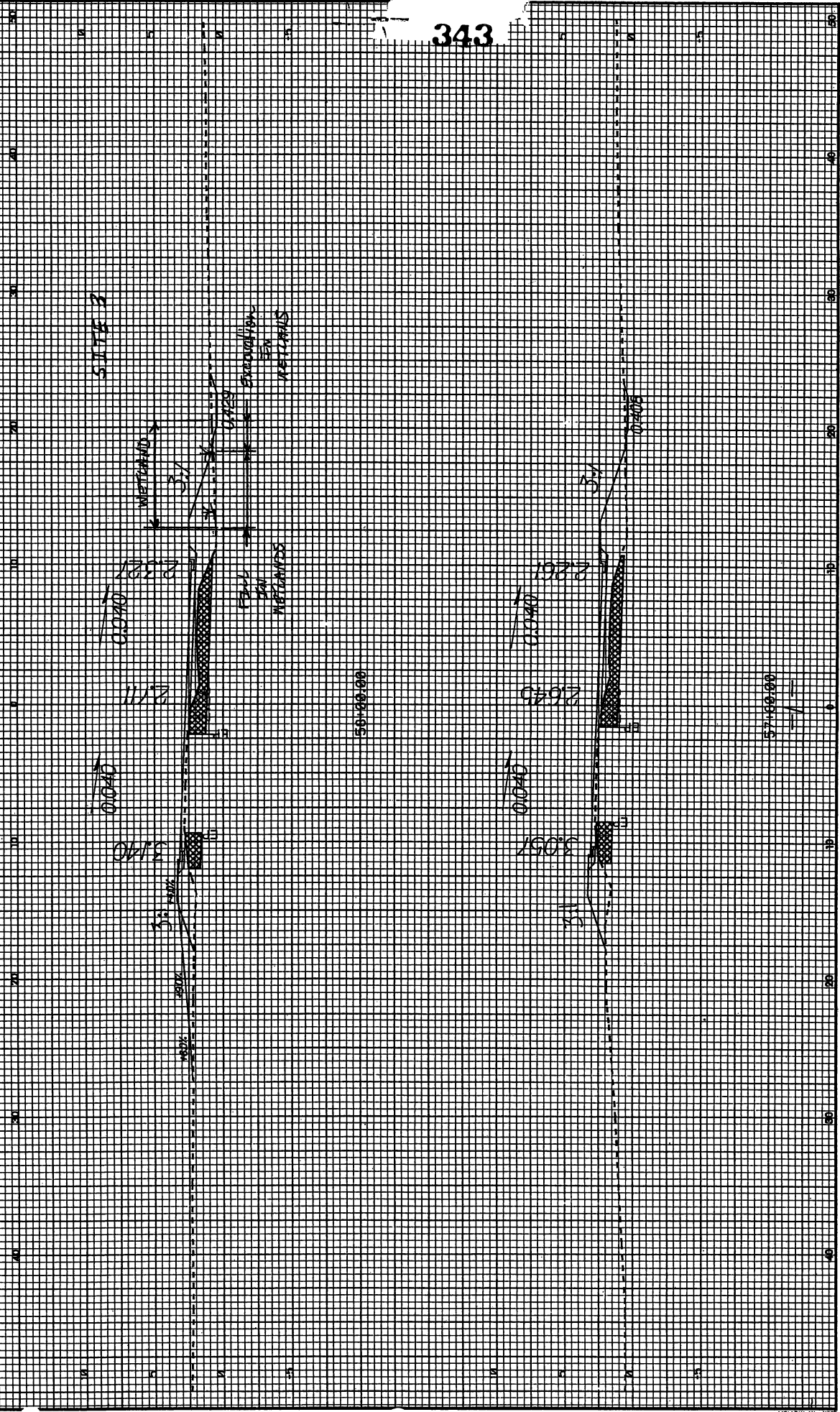


55+60.00

55+60.00

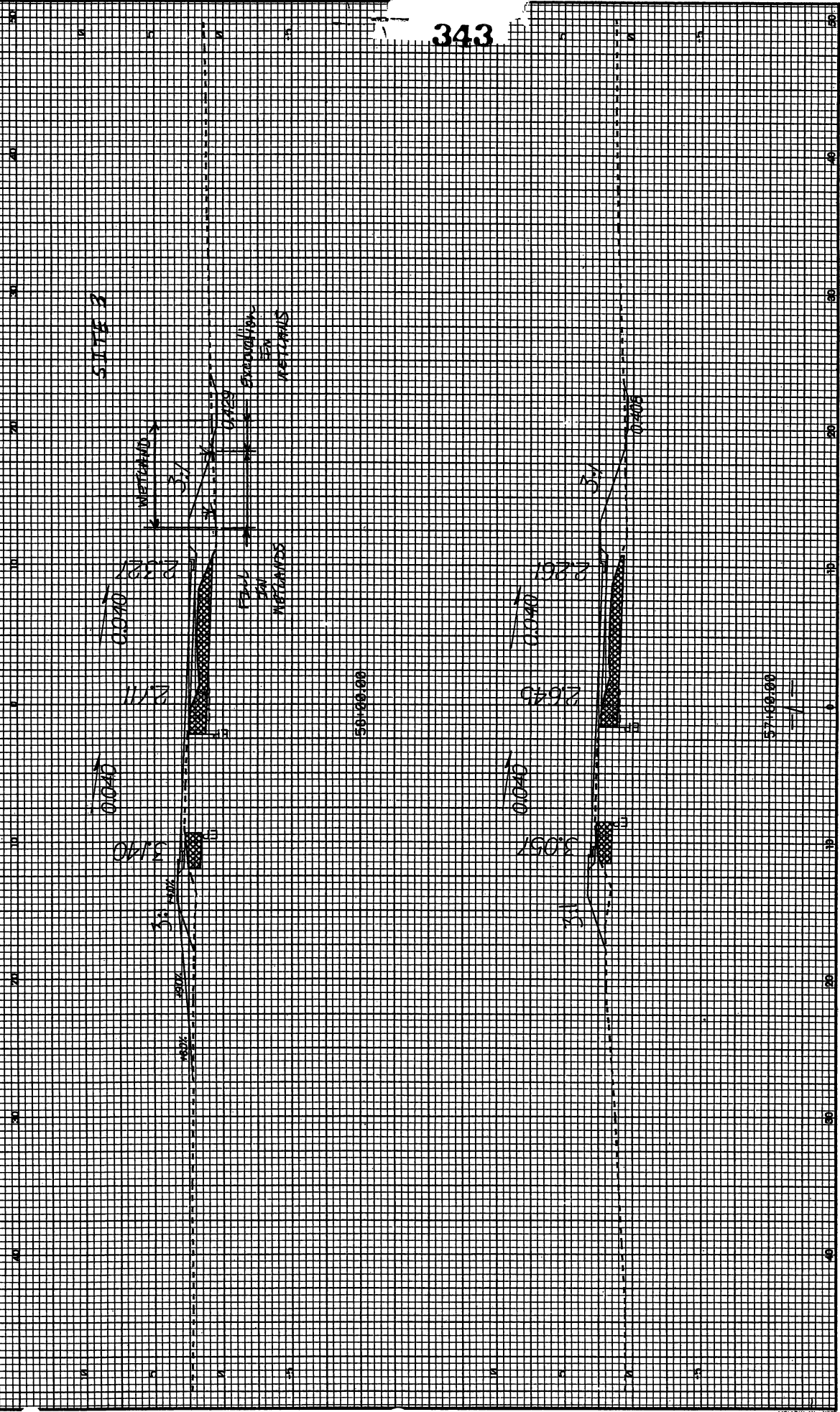
PROJECT REFERENCE NO. R-24148
SHEET NO. X-31
METRICS
2.5 0 2.5 5

343



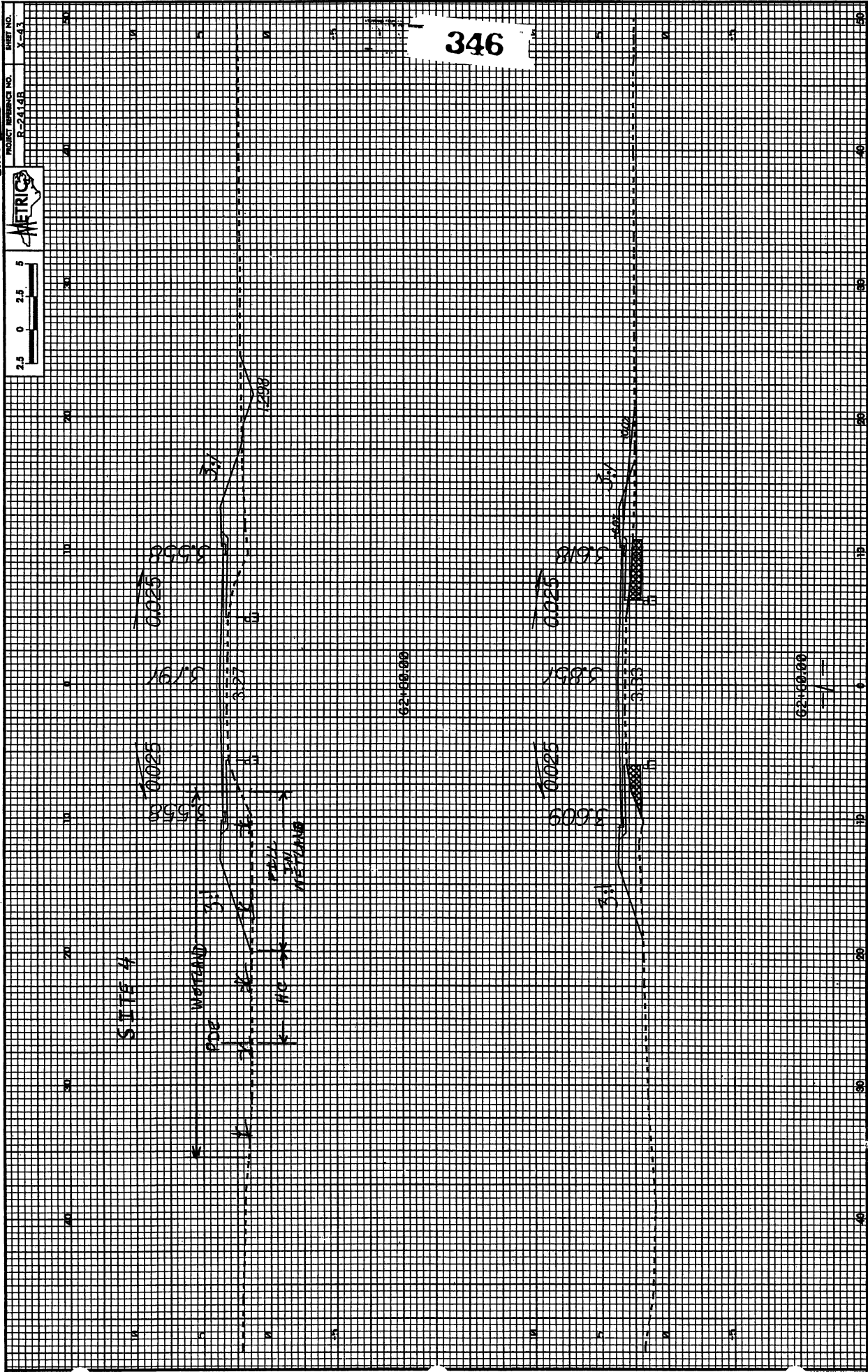
50+60.00

57+60.00



PROJECT REFERENCE NO. R-21148
SHEET NO. X-43
METRICS
2.5 0 2.5 5

346



Sheet 27 of 38

PROJECT NO.	17
SHEET NO.	27
DATE	10/1/88
BY	HYDRAULICS ENGINEER
CHECKED BY	HYDRAULICS ENGINEER

TRINITY CONSULTING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 733-1111

CONTRACT NO.
 R/W REV.

EVERETT ENGINEERING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 733-1111

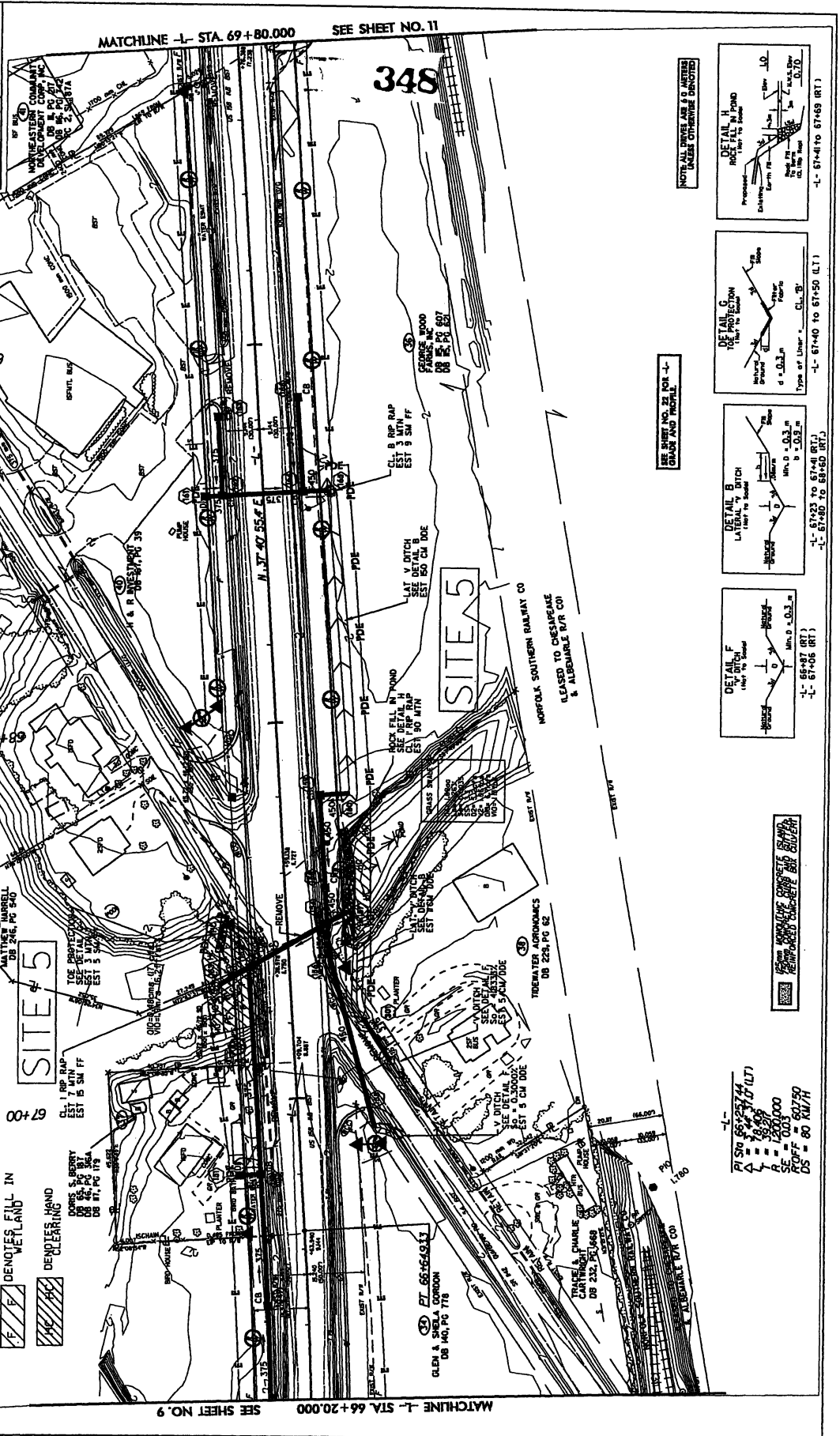
TRINITY CONSULTING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 733-1111

EVERETT ENGINEERING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 733-1111

TRINITY CONSULTING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 733-1111

EVERETT ENGINEERING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 733-1111

TRINITY CONSULTING
 1000 W. 10th Street, Suite 100
 Fort Worth, TX 76102
 (817) 733-1111



REVISIONS

1. DENOTES FILL IN WETLAND

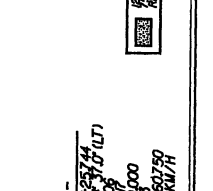
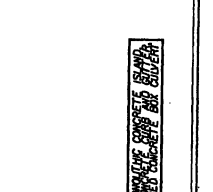
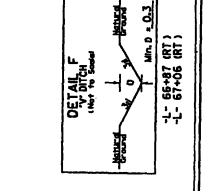
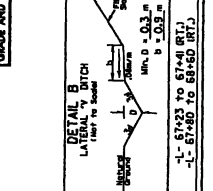
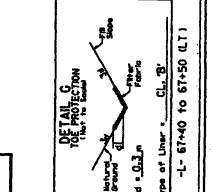
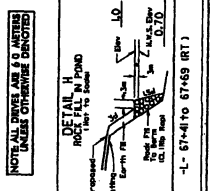
2. DENOTES HAND CLEARING

R/W REVISION - REVISED PROPERTY OWNER NAME & ELIMINATED PARCEL NO 38 AND CLAIM/REVISED PROPERTY OWNER NAMES ON PARCEL NO. 38, 39 & 40, 84W

MATCHLINE L- STA. 69+80.000 SEE SHEET NO. 11

MATCHLINE L- STA. 66+20.000 SEE SHEET NO. 9

348



PI STA 65+27.44
 L = 100.00
 R = 100.00
 DS = 60 K/M/H

FOR MORE INFORMATION CONTACT TRINITY CONSULTING

PROJECT REFERENCE NO. 12
SHEET NO. 2

PROJECT REFERENCE NO. R-2468
S.W. SHEET NO. 1
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT BE USED FOR CONSTRUCTION

COUNTY REV.
P/W REV.

TRIC

TRAN SITE CONSULTING
1000 W. 10th St., Suite 100
Des Moines, IA 50319
TEL: 515.281.1100
WWW.TRICCONSULTING.COM

SOUTHLAND, LLC
DB 174, PG 355

REVISIONS

R/W REVISION - REVISED PDE & TCE ON PARCEL NO. 36, (BAM)
R/W REVISION - ADDED DEED BOOK DESCRIPTION TO PARCEL NO. 44, (BAM)

Revised Nov 2010
Permit Drawing
Sheet 31 of 39

LEGEND

▨ DENOTES FILL IN WETLAND

▨ DENOTES HAND CLEARING

▨ DENOTES EXCAVATION IN WETLAND

74+00

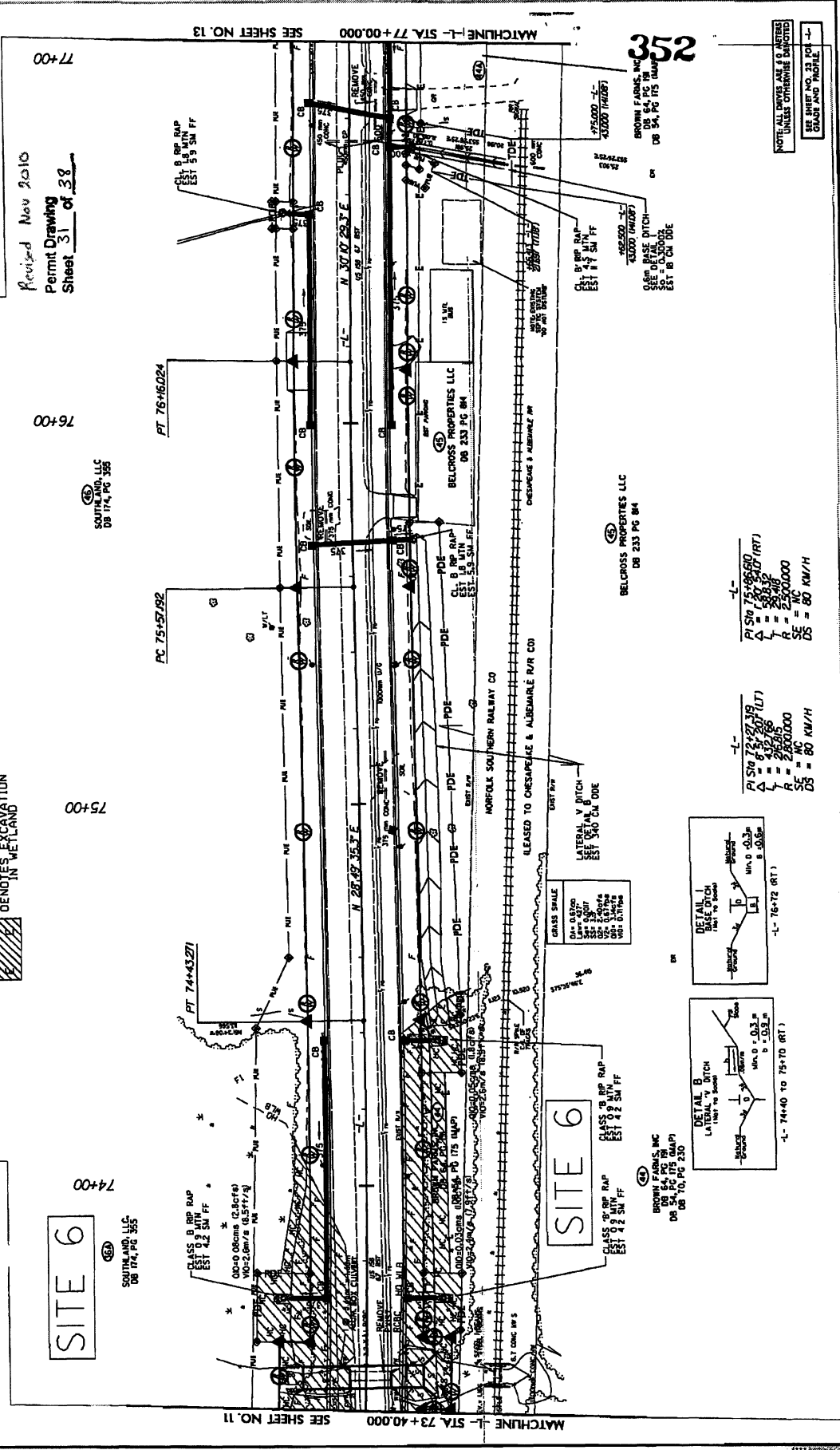
SITE 6

SOUTHLAND, LLC
DB 174, PG 355

75+00

76+00

77+00



74+00

SITE 6

SOUTHLAND, LLC
DB 174, PG 355

75+00

76+00

77+00

74+00

75+00

76+00

77+00

78+00

79+00

80+00

81+00

82+00

83+00

84+00

85+00

86+00

87+00

88+00

89+00

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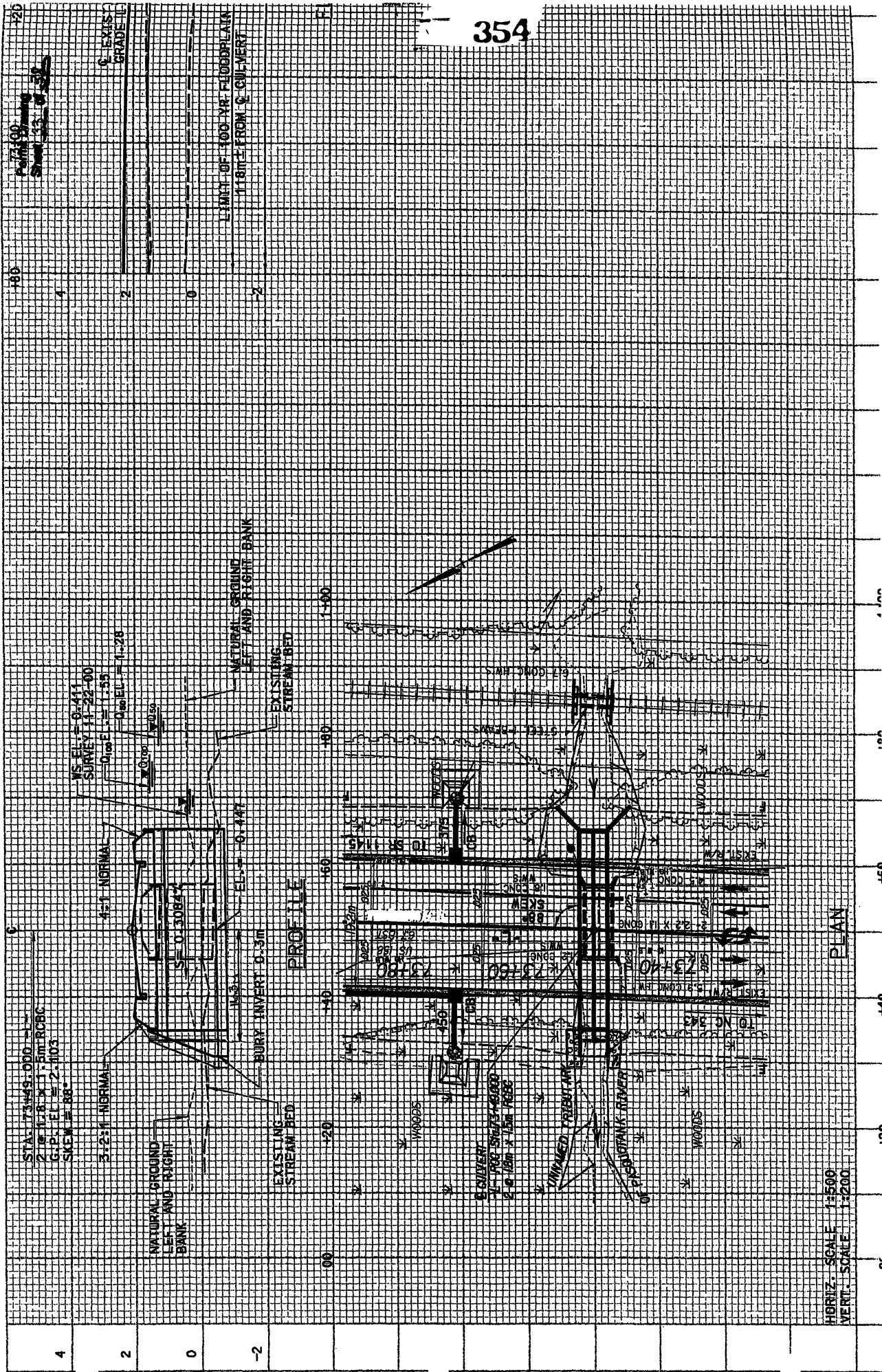
352

352

352

352

35



4
2
0
-2

STAL. 73+49.000
2.0' R. x 1.5' R. BRIDGE
G.P. EL. = 2.103
SKEW = 88°

NS. EL. = 0.411
SURVEY 11-22-00
0.00 EL. = 1.55
0.06 EL. = 1.28

NATURAL GROUND
LEFT AND RIGHT
BANK

3:2:1 NORMAL
4:1 NORMAL
SE 0.30824
EL. = 0.411

EXISTING
STREAM BED
BURY INVERT 0.3M

PROFILE

NATURAL GROUND
LEFT AND RIGHT BANK

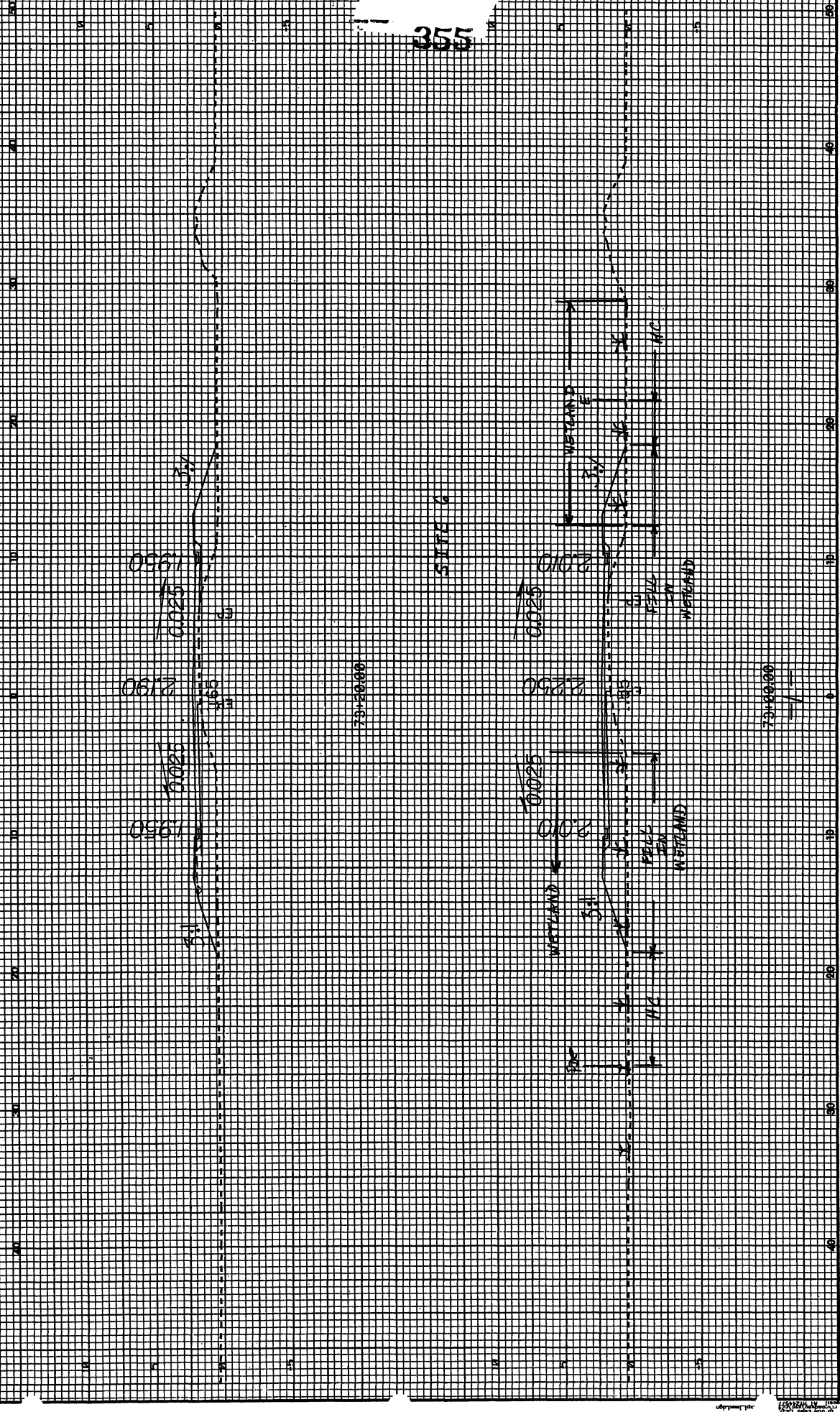
EXISTING
STREAM BED

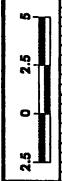
00 20 40 60 80 100 120 140 160 180

HORIZ. SCALE 1:500
VERT. SCALE 1:200

PLAN

0 20 40 60 80 100 120 140 160 180

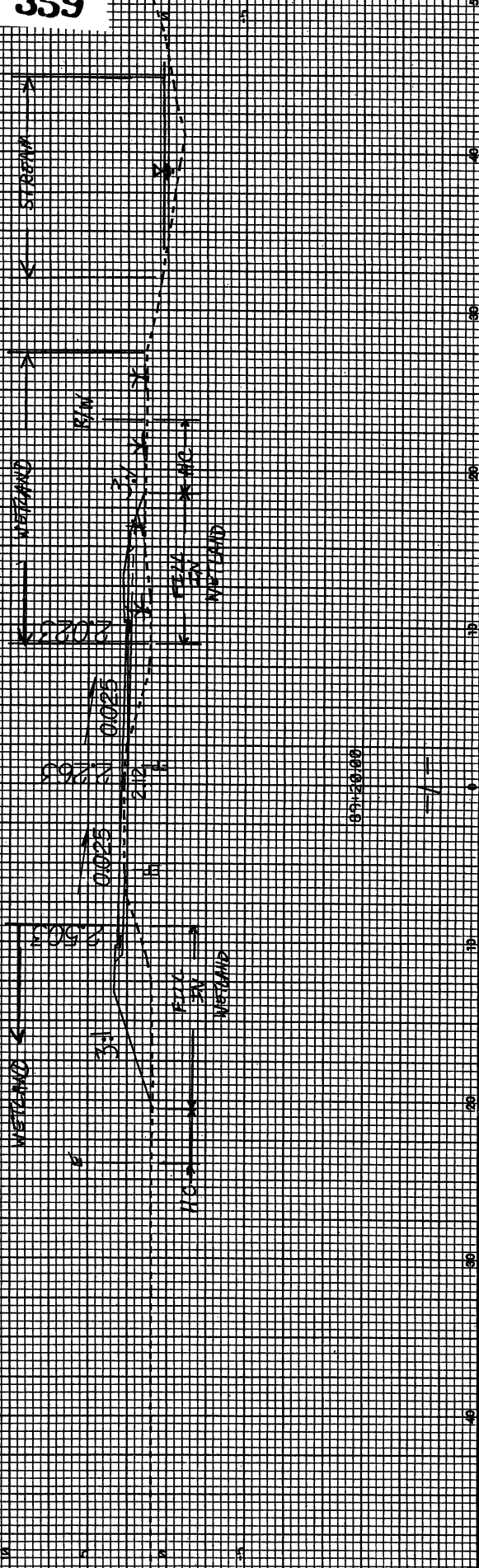




PROPOSED
STREAM

SITE 7

359



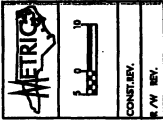
600=20.00



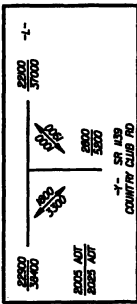
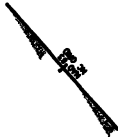
PROJECT REFERENCE NO. R-2414B SHEET NO. 4

UTILITIES BY OTHERS

NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.



Utility Permit Drawing Sheet 2 of 15

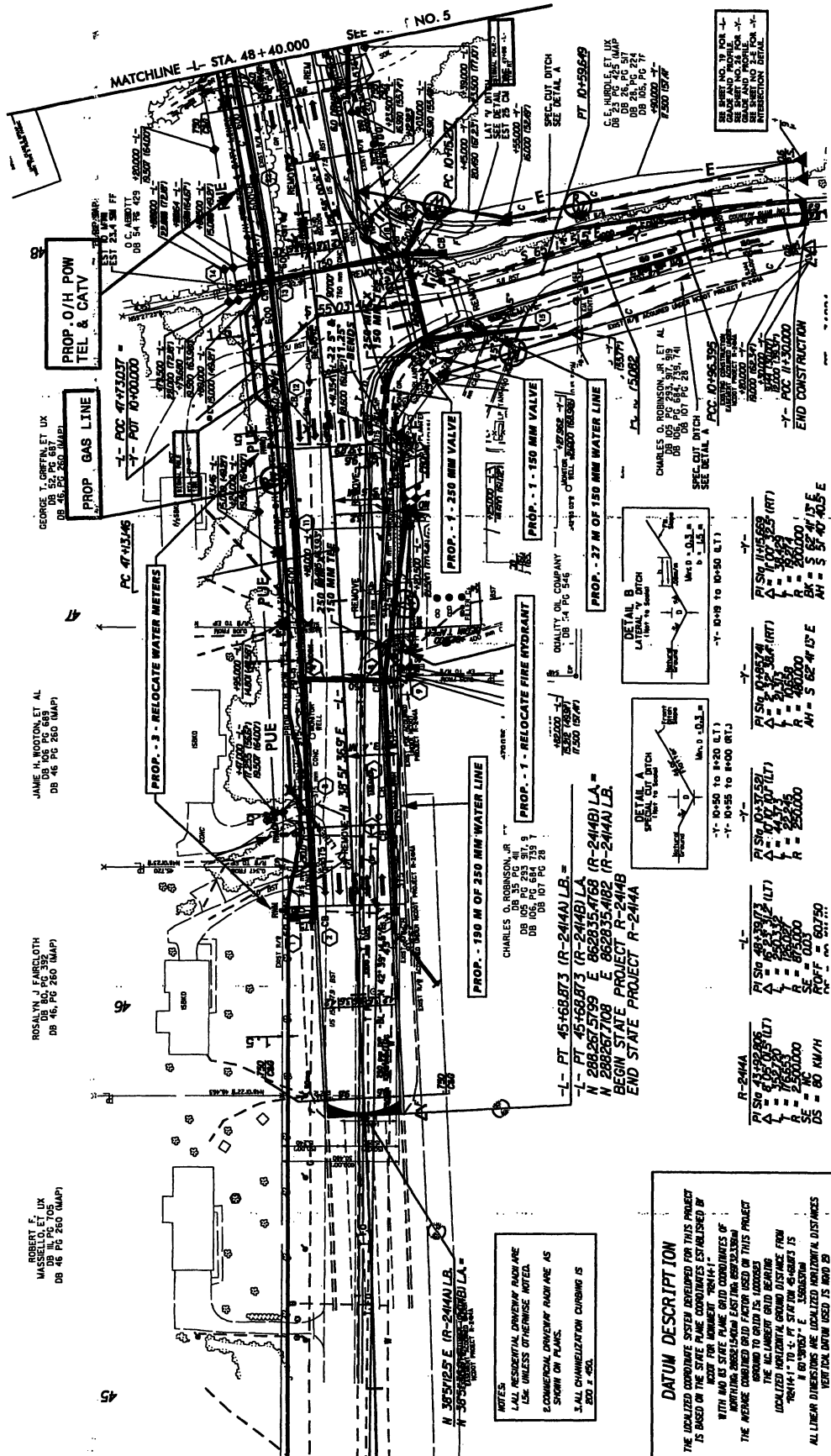


ROBERT E. LUX DB 10 PG 705 DB 46 PG 260 (MAP)

ROSALYN J. FARRELOTH DB 10 PG 683 DB 46 PG 260 (MAP)

JAMIE H. WOOTEN, ET AL DB 10 PG 683 DB 46 PG 260 (MAP)

GEORGE T. GREEN, ET UX DB 10 PG 683 DB 46 PG 260 (MAP)



NOTES: 1. ALL HORIZONTAL DIMENSIONS SHOWN ARE AS SHOWN ON PLANS. 2. ALL CHANNELIZATION CURBING IS 200 X 450.

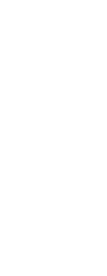
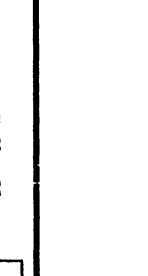
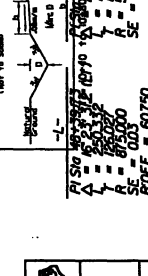
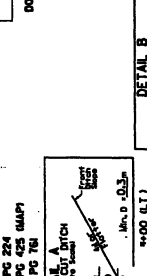
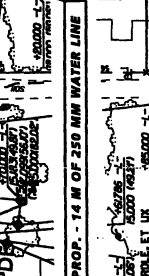
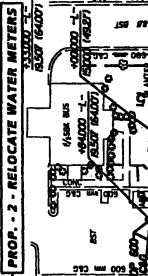
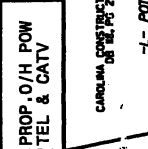
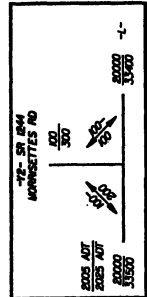
DATUM DESCRIPTION: THE LOCALIZED COORDINATE SYSTEM DESCRIBED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY THE STATE OF TEXAS...

PROJECT REFERENCE NO. R-24148 SHEET NO. 5

UTILITIES BY OTHERS

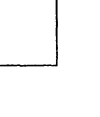
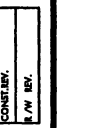
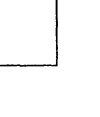
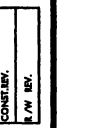
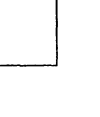
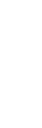
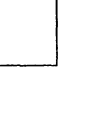
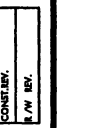
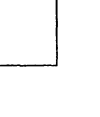
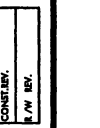
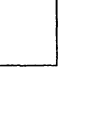
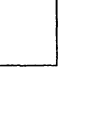
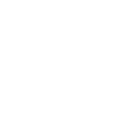
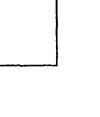
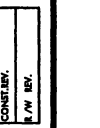
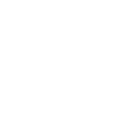
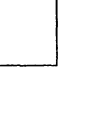
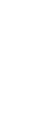
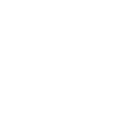
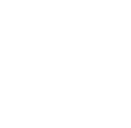
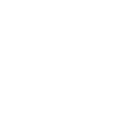
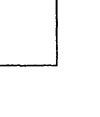
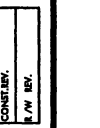
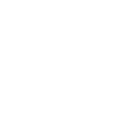
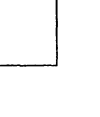
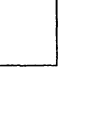
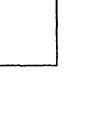
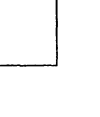
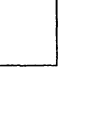
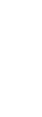
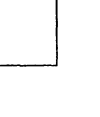
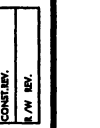
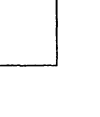
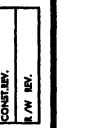
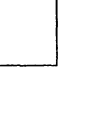
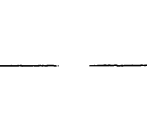
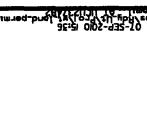
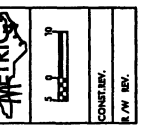
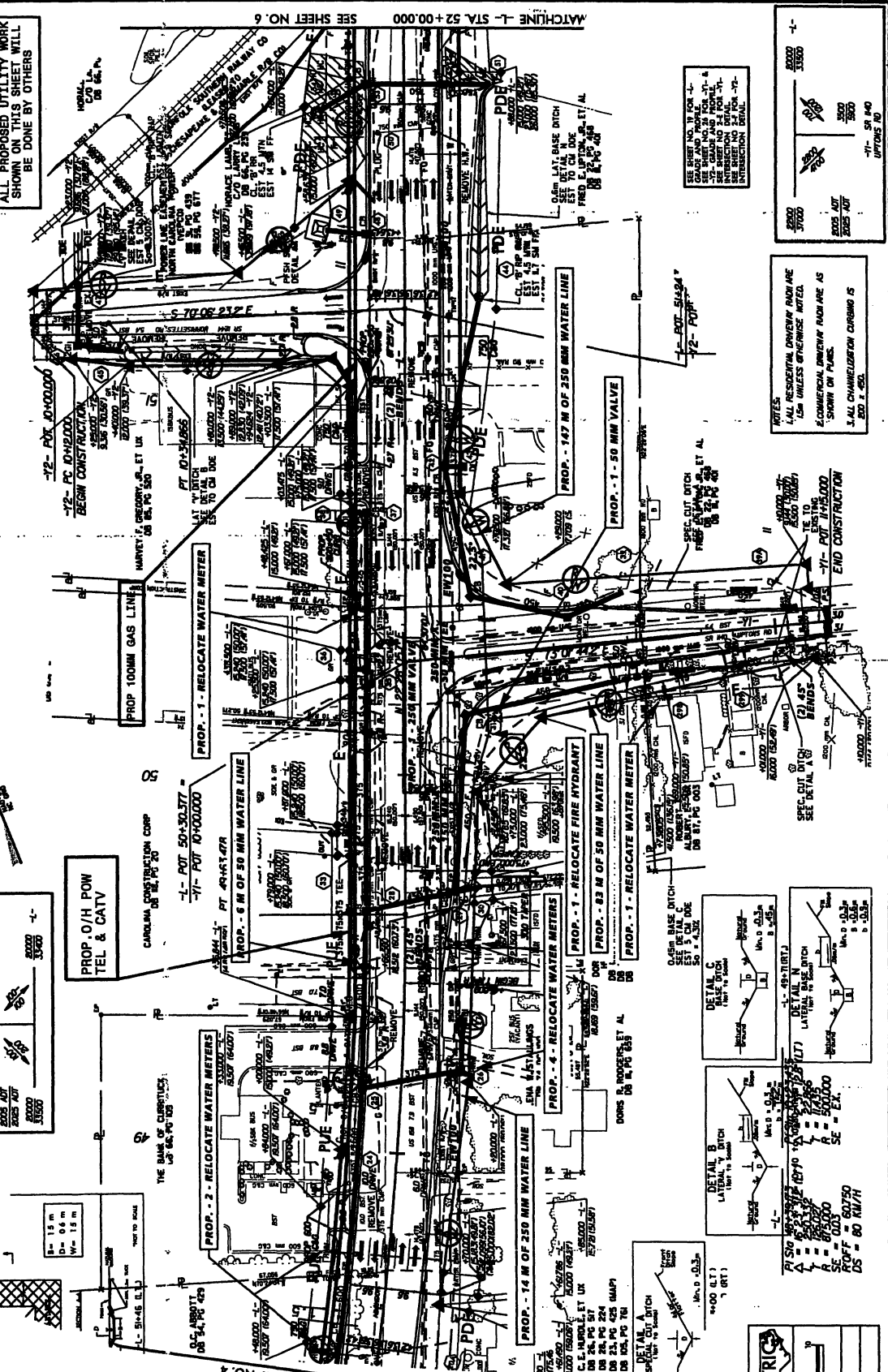
NOTE: ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

Utility Permit Drawing Sheet 3 of 15



MATCHLINE - STA. 48+40.00 SEE SHEET NO. 4

MATCHLINE - STA. 52+00.00 SEE SHEET NO. 6

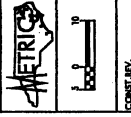


PROJECT REFERENCE NO. R-24148
SHEET NO. 8

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

PROP. U/G POWER & TEL BY DIRECTIONAL BORE
PROP. 100MM GAS LINE BY DIRECTIONAL BORE



CONST. BY

PROP. - 20 M TRENCHLESS INSTALLATION OF 75 MM I.R. BLOWN POLYPROPYLENE TRENCHLESS INSTALLATION OF 19 M TRENCHLESS INSTALLATION OF 75 MM NOT IN SOIL

PROP. - 55 M OF 75 MM FORCE MAIN SEWER
45° BEND. BEGIN PROPOSED TRENCHLESS INSTALLATION
STA 55+21
55+40+595

PROP. - 1 - RELOCATE WATER METER
ALFONSO WHITE
DB 40, PG 343

PROP. - 8 M OF 250 MM WATER LINE
PROP. - 8 M OF 250 MM WATER LINE
PROP. - 8 M OF 250 MM WATER LINE

PROP. - 2 M OF 40 MM FORCE MAIN SEWER
LAWRENCE E. LIX
DB 35, PG 24
DB 35, PG 24
DB 35, PG 352

PROP. - 2 RELOCATE WATER METERS
DITA BELL
GREGORY E. VIK
DB 35, PG 24
DB 35, PG 352

PROP. - 1 RELOCATE FIRE HYDRANT
FRY & SIMONSON, LUX
DB 34, PG 28
DB 34, PG 28
DB 34, PG 28

PROP. - 1 RELOCATE WATER METER
FRY & SIMONSON, LUX
DB 34, PG 28
DB 34, PG 28
DB 34, PG 28

PROP. - 9 - RELOCATE WATER METERS
FRY & SIMONSON, LUX
DB 34, PG 28
DB 34, PG 28
DB 34, PG 28

PROP. - 19 M TRENCHLESS INSTALLATION OF 19 M TRENCHLESS INSTALLATION OF 250 MM NOT IN SOIL
RICKY'S RELIABLE
DB 17, PG 494
DB 21, PG 154

PROP. - 45 M OF 250 MM WATER LINE
PROP. - 45 M OF 250 MM WATER LINE

PROP. - 19 M TRENCHLESS INSTALLATION OF 19 M TRENCHLESS INSTALLATION OF 250 MM NOT IN SOIL
RICKY'S RELIABLE
DB 17, PG 494
DB 21, PG 154

PROP. 0/H POW TEL & CATV
MORACE LAMB, ET AL
C/O LARRY LAMB
DB 34, PG 635

PROP. 100MM GAS LINE

PROP. 0/H POW TEL & CATV

PROP. - 6 M OF 50 MM WATER LINE
PROP. - 6 M OF 50 MM WATER LINE

PROP. - 6 M OF 50 MM WATER LINE
PROP. - 6 M OF 50 MM WATER LINE

PROP. - 6 M OF 50 MM WATER LINE
PROP. - 6 M OF 50 MM WATER LINE

PROP. - 6 M OF 50 MM WATER LINE
PROP. - 6 M OF 50 MM WATER LINE

PROP. - 6 M OF 50 MM WATER LINE
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PROP. - 6 M OF 50 MM WATER LINE
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PROP. - 6 M OF 50 MM WATER LINE
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PROP. - 6 M OF 50 MM WATER LINE
PROP. - 6 M OF 50 MM WATER LINE

PROP. - 6 M OF 50 MM WATER LINE
PROP. - 6 M OF 50 MM WATER LINE

PROP. - 6 M OF 50 MM WATER LINE
PROP. - 6 M OF 50 MM WATER LINE

NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5M UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS 300 x 450.

105 MORGENTHAU CONCRETE ISLAND

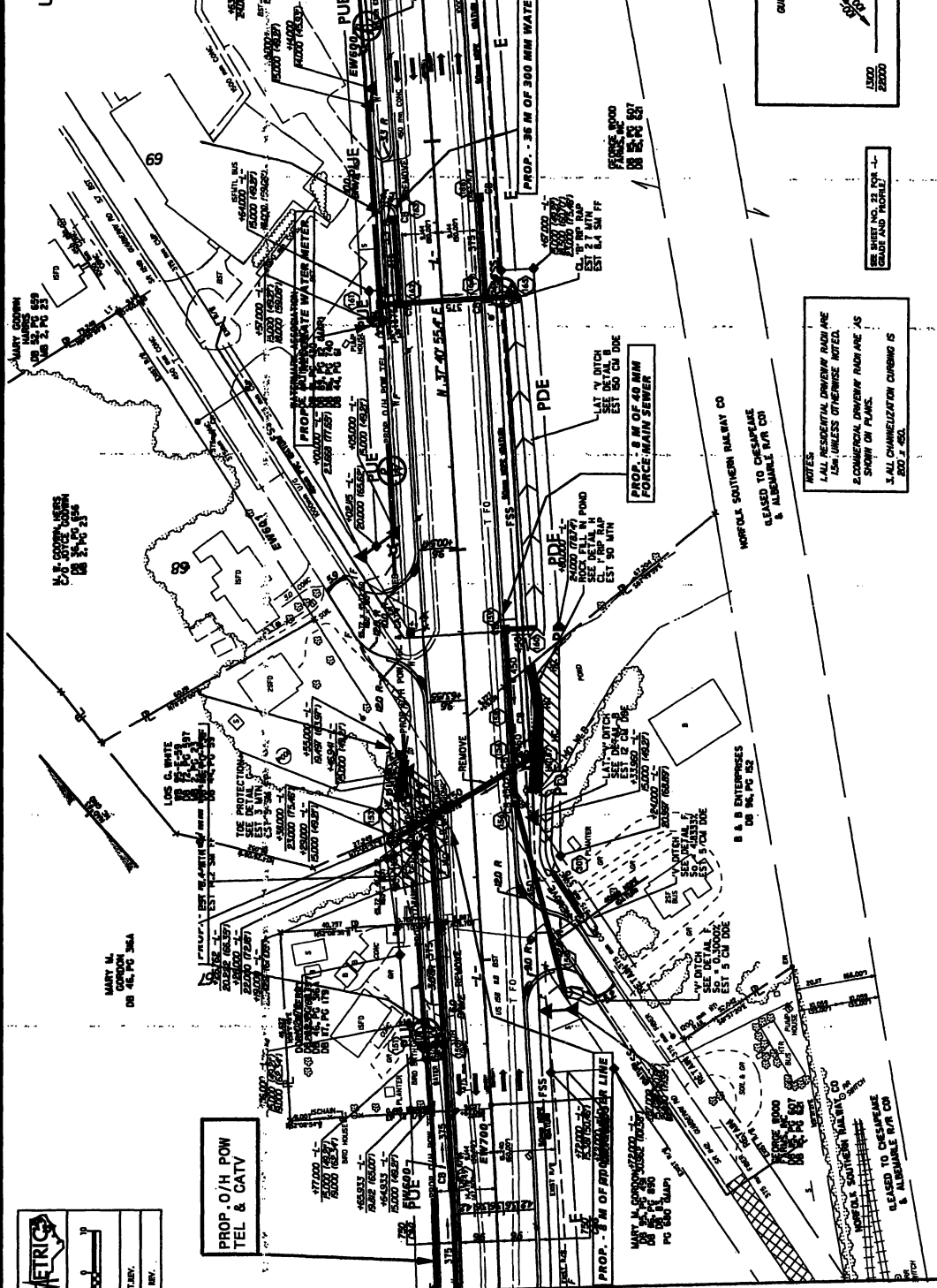
DETAIL B
LATERAL V. DITCH

Utility
Permit Drawing
Sheet 4 of 15
Revised 9/18/10

PROJECT REFERENCE NO. R-24128
SHEET NO. 10

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



METRIC

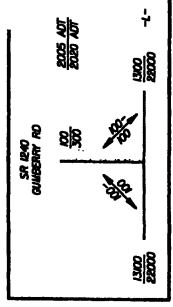
CONTRACT NO. 100-1000000
DATE: 10/1/00

PROP. 0/H POW
TEL & CATV

MATCHLINE-L- STA. 66+20.000 SEE SHEET NO. 9

MATCHLINE-L- STA. 69+80.000 SEE SHEET NO. 11

367



Utility
Permit Drawing
Sheet 10 of 15

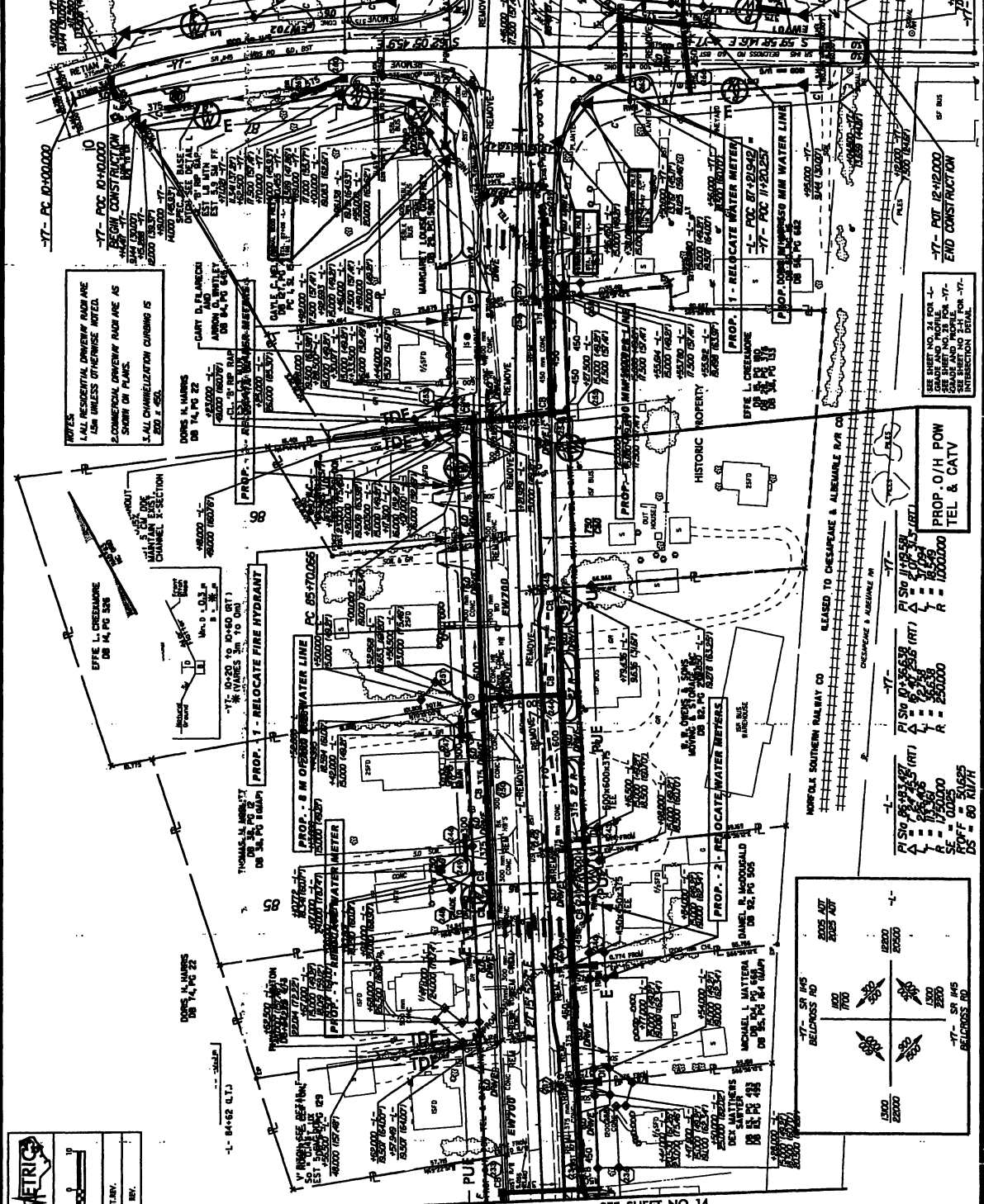
NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADIANE
1.5M, UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADIANE AS
SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS
800 X 250.

-1-
R/SV 5/27/00 (ILT)
A = 10.00
L = 100.0000
P = 100.0000
SE = 0.03
PROFF = 50750
DS = 60 RM/H

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

Utility Permit Drawing
Sheet 13 of 15

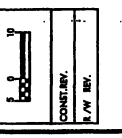


METRICS

CONSTR. BY: [Signature]

DATE: [Date]

- 1. ALL EXISTING DRIVEWAY RADI ARE TO BE RECONSTRUCTED TO MATCH EXISTING DRIVEWAY RADI AS SHOWN ON PLANS.
- 2. ALL CHANNELIZATION CURBSING IS TO BE RECONSTRUCTED TO MATCH EXISTING CHANNELIZATION CURBSING AS SHOWN ON PLANS.
- 3. ALL CHANNELIZATION CURBSING IS TO BE RECONSTRUCTED TO MATCH EXISTING CHANNELIZATION CURBSING AS SHOWN ON PLANS.

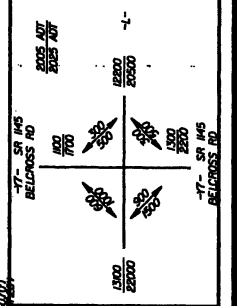


MATCHLINE -L- STA. 84 + 20.00 SEE SHEET NO. 14

MATCHLINE -L- STA. 87 + 80.00 SEE SHEET NO. 16

PROF. 1 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 2 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 3 - RELOCATE WATER METER
EYE L. CEMENTUM

PROF. 4 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 5 - RELOCATE WATER METER
EYE L. CEMENTUM



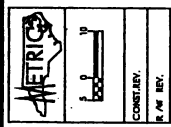
MATCHLINE -L- STA. 84 + 20.00 SEE SHEET NO. 14

PROF. 1 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 2 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 3 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 4 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 5 - RELOCATE WATER METER
EYE L. CEMENTUM
PROF. 6 - RELOCATE WATER METER
EYE L. CEMENTUM

PROJECT REFERENCE NO. R-241.148 SHEET NO. 18

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



CONTRACTOR:
R.A.M. REV.

NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5M UNLESS OTHERWISE NOTED.
2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
3. ALL CHANNELIZATION CURBING IS 300 x 450.

PROP. 151' M OF 300 MM WATER LINE
PROP. 99' M TRENCHLESS INSTALLATION OF 300 MM WATER LINE
PROP. 55' M TRENCHLESS INSTALLATION OF 300 MM WATER LINE

PROP. 0/H POW TEL & CATV
PROP. U/G POWER & TEL BY DIRECTIONAL BORE
PROP. U/G POWER & TEL BY DIRECTIONAL BORE

PROP. 1 - 1 - RELOCATE WATER METER
PROP. 1 - 1 - RELOCATE WATER METER

DETAIL A LATERAL BASE DITCH
DETAIL B LATERAL BASE DITCH
DETAIL C LATERAL BASE DITCH

DETAIL D LATERAL BASE DITCH
DETAIL E LATERAL BASE DITCH

DETAIL F LATERAL BASE DITCH
DETAIL G LATERAL BASE DITCH

DETAIL H LATERAL BASE DITCH
DETAIL I LATERAL BASE DITCH

DETAIL J LATERAL BASE DITCH
DETAIL K LATERAL BASE DITCH

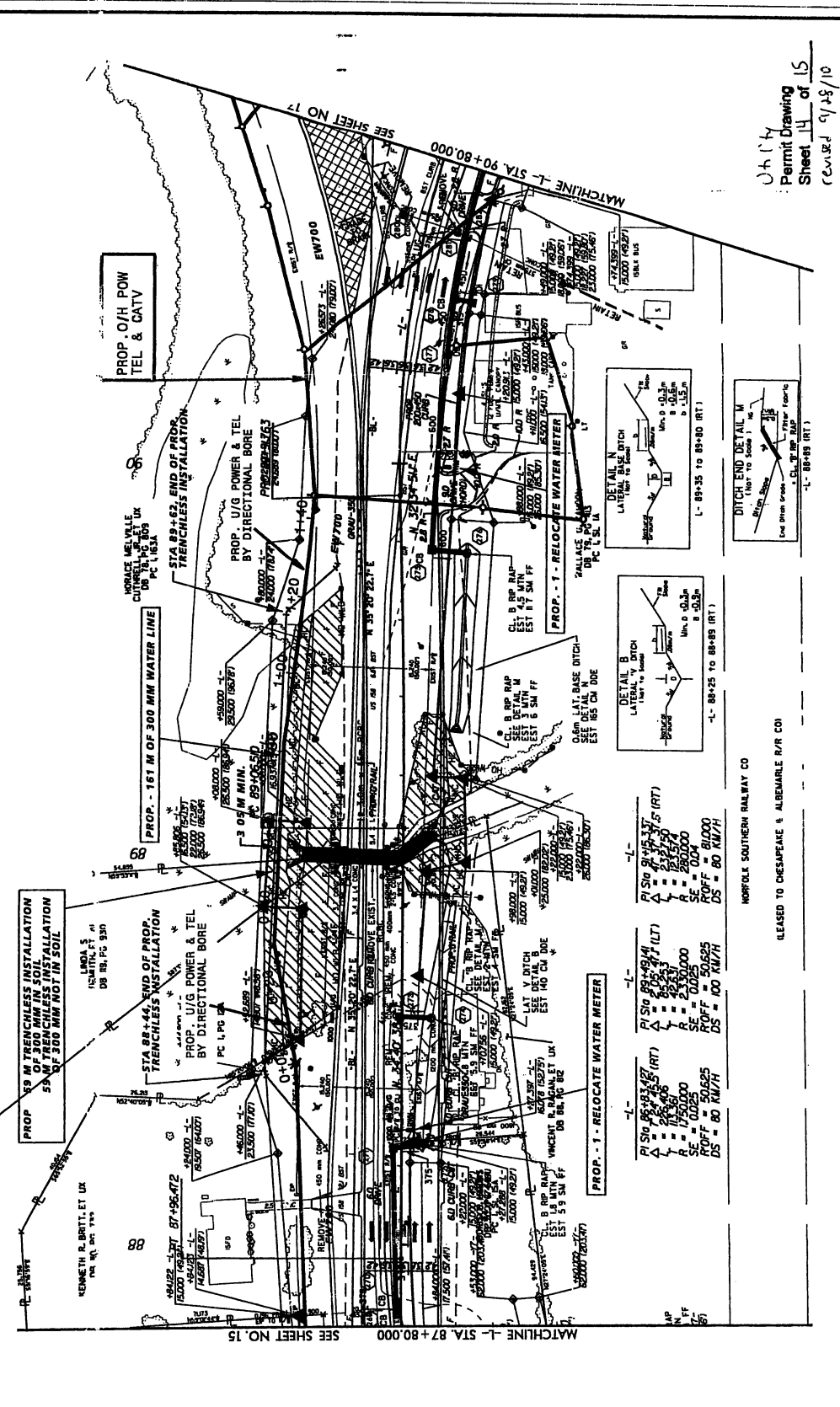
DETAIL L LATERAL BASE DITCH
DETAIL M LATERAL BASE DITCH

DETAIL N LATERAL BASE DITCH
DETAIL O LATERAL BASE DITCH

DETAIL P LATERAL BASE DITCH
DETAIL Q LATERAL BASE DITCH

DETAIL R LATERAL BASE DITCH
DETAIL S LATERAL BASE DITCH

DETAIL T LATERAL BASE DITCH
DETAIL U LATERAL BASE DITCH



Utility Permit Drawing
Sheet 14 of 15
REVISED 09/18/10

NORFOLK SOUTHERN RAILWAY CO
LEASED TO CHEAPFARE & ALBEMARLE R/R CO

PI STA 87+80.00 (RT)	PI STA 87+80.00 (LT)	PI STA 87+80.00 (RT)	PI STA 87+80.00 (LT)
L = 25.000	L = 25.000	L = 25.000	L = 25.000
E = 100.000	E = 100.000	E = 100.000	E = 100.000
SE = 50.000	SE = 50.000	SE = 50.000	SE = 50.000
ROFF = 80 KM/H	ROFF = 80 KM/H	ROFF = 80 KM/H	ROFF = 80 KM/H
DS = 80 KM/H	DS = 80 KM/H	DS = 80 KM/H	DS = 80 KM/H

PI STA 87+80.00 (RT)	PI STA 87+80.00 (LT)	PI STA 87+80.00 (RT)	PI STA 87+80.00 (LT)
L = 25.000	L = 25.000	L = 25.000	L = 25.000
E = 100.000	E = 100.000	E = 100.000	E = 100.000
SE = 50.000	SE = 50.000	SE = 50.000	SE = 50.000
ROFF = 80 KM/H	ROFF = 80 KM/H	ROFF = 80 KM/H	ROFF = 80 KM/H
DS = 80 KM/H	DS = 80 KM/H	DS = 80 KM/H	DS = 80 KM/H

PI STA 87+80.00 (RT)	PI STA 87+80.00 (LT)	PI STA 87+80.00 (RT)	PI STA 87+80.00 (LT)
L = 25.000	L = 25.000	L = 25.000	L = 25.000
E = 100.000	E = 100.000	E = 100.000	E = 100.000
SE = 50.000	SE = 50.000	SE = 50.000	SE = 50.000
ROFF = 80 KM/H	ROFF = 80 KM/H	ROFF = 80 KM/H	ROFF = 80 KM/H
DS = 80 KM/H	DS = 80 KM/H	DS = 80 KM/H	DS = 80 KM/H

