

222

## PROJECT SPECIAL PROVISION

(10-18-95)

Z-1a

PERMITS

The Contractor's attention is directed to the following permits, which have been applied for by the Department of Transportation to the authority granting the permit. Copies of the permits will be furnished to the Contractor when received by the Department. A copy of the final 401, and the draft 404 permit conditions and drawings has been included for the Contractor's use in placing his bid on this project. It is anticipated that the conditions and drawings in the draft 404 permit will be approved as currently written.

PERMITAUTHORITY GRANTING THE PERMIT

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

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

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

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

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

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



North Carolina Department of Environment and Natural Resources

Division of Water Quality  
Coleen H. Sullins  
Director

Beverly Eaves Perdue  
Governor

Dee Freeman  
Secretary

November 12, 2009

Ms. Darlene Waddell  
North Carolina Global TransPark Authority  
2780 Jetport Road, Suite A  
Kinston, NC 28504

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and Neuse Buffer Rules with **ADDITIONAL CONDITIONS** for the railroad spur extension from existing NCRR main line to the Spirit Aerosystems building location within the North Carolina Global TransPark in Lenoir County, TIP U-2928.

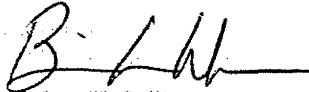
NCDWQ Project No. 19970093 v. 2

Dear Ms. Waddell:

Attached hereto is a modification of Certification No. 3184 issued to The Global TransPark Authority dated April 7, 1998.

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

Sincerely,



Coleen H. Sullins  
Director

Attachments

cc: Tracey Wheeler, US Army Corps of Engineers, Washington Field Office  
Neil Lassiter, PE, Division 2 Engineer  
Jay B. Johnson, Division 2 Environmental Officer  
Kathy Matthews, Environmental Protection Agency (electronic copy only)  
Robert Belvin, NC Division of Land Quality, Washington Regional Office  
Ron Ferrell, PBS&J-EcoScience, Raleigh  
Marc Hamel, NCDOT Rail Division  
Garcy Ward, NCDWQ Washington Regional Office  
File Copy

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

**THIS CERTIFICATION** is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H .0500 and 15A NCAC 2B .0233 . This certification authorized the NCDOT to impact 6.81 acres of jurisdictional wetlands, 394 linear feet of jurisdictional streams, and 36,002 square feet of protected riparian buffers in Lenoir County. The project shall be constructed pursuant to the modification dated received July 1, 2009. The authorized impacts are as described below:

**Wetland Impacts in the Neuse River Basin**

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)	Impacts requiring Mitigation
1	0.01	0	0	0.01	0	0.02	0.02
2	0.01	0	0	0.01	0	0.02	0.02
3	0.01	0.02	0	0	0	0.03	0.01
4	0.01	0	0	0.01	0	0.02	0.02
5	0.01	0	0	0.01	0	0.02	0.02
6	0.03	0	0.01	0.01	0	0.05	0.05
7A	0.46	0	0	0.22	0	0.68	0.68
7B	0	0	0.12	0.04	0	0.16	0.16
8	0.92	0	0	0.38	0	1.3	1.3
9	0.24	0	0	0.1	0	0.34	0.34
10	0.07	0	0	0.04	0	0.11	0.11
11	0.3	0.12	0	0	0.14	0.56	0.44
12	1.1	0	0.31	0.69	0	2.1	2.1
13	0.08	0	0	0.01	0	0.09	0.09
14A	0	0	0.01	0.01	0	0.02	0.02
14B	0	0	0.03	0.02	0	0.05	0.05
15	0.34	0	0.54	0.26	0	1.14	1.14
16 <sup>1</sup>	0	0	0	0	0	0	0
17	0	0	0.04	0.02	0	0.06	0.06
18	0.01	0	0	0.01	0	0.02	0.02
19	0	0	0.01	0.01	0	0.02	0.02
<b>TOTAL:</b>	<b>3.6</b>	<b>0.14</b>	<b>1.07</b>	<b>1.86</b>	<b>0.14</b>	<b>6.81</b>	<b>6.67</b>

**Current Wetland Impacts Allowed: 6.81 acres**

<sup>1</sup>Subsequent to receiving the permit application, Site 16 was re-verified by the USACE and determined not to be a wetland. Therefore, although the impacts are shown and discussed in the permit application, no wetland impacts occurred and no mitigation will be required for this site.

**Stream Impacts in the Neuse 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 feet)	Stream Impacts Requiring Mitigation (linear ft)
6	0	0	201	0	201	201
11	0	0	0	0	0	0
13	0	0	193	0	193	193
<b>TOTAL:</b>	<b>0</b>	<b>0</b>	<b>394</b>	<b>0</b>	<b>394</b>	<b>394</b>

**Total Stream Impact for Project: 394 linear feet**

## Neuse River Basin Riparian Buffer Impacts

Impact Site	Zone 1 Impact (ft <sup>2</sup> )	Wetlands in Zone 1 (ft <sup>2</sup> )	Zone 1 Buffers (not in wetlands) (ft <sup>2</sup> )	Zone 1 Buffer Mitigation Required (3:1 ratio)	Zone 2 Impact (ft <sup>2</sup> )	Wetlands in Zone 2 (sq ft)	Zone 2 Buffers (not in wetlands) (ft <sup>2</sup> )	Zone 2 Buffer Mitigation Required (1.5:1 ratio)	Total Impact (ft <sup>2</sup> )	Total Mitigation Required (ft <sup>2</sup> )
6	11,230	0	11,230	33,690	6,622	0	6,622	9,933	17,852	43,623
11	2,677	1,810	867	N/A	2,838	1,386	1,452	N/A	5,515	0
13	7,853	4,187	3,666	N/A	4,782	0	4,782	N/A	12,635	0
<b>Total:</b>	<b>21,760</b>	<b>5,997</b>	<b>15,763</b>	<b>33,690</b>	<b>14,242</b>	<b>1,386</b>	<b>12,856</b>	<b>9,933</b>	<b>36,002</b>	<b>43,623</b>

\* N/A = Total impact for Site is less than 1/3 acre and 150 linear feet of impact, no mitigation required

**Total Buffer Impact for Project: 36,002 square feet.**

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

This approval is only valid for the purpose and design that you submitted in your modified application dated received July 1, 2009. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated April 7, 1998 and the extension dated October 13, 2008 still apply except where superceded by this certification. Should your project change, you are required to notify the 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). Additional buffer impacts may require compensatory mitigation as described in 15A NCAC 2B .0233. For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

#### Conditions of Certification:

1. This modification is applicable only to the proposed activities. All other conditions written into previous Water Quality Certifications, including Certification No. 3184 dated April 7, 1998 and the associated extension of this Water Quality Certification dated October 13, 2008 for this project still apply except where superceded by this certification.

#### Project Specific Conditions:

2. All stormwater runoff shall be directed as sheetflow through stream buffers at non-erosive velocities, unless otherwise approved by this certification.
3. All riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated. Maintained buffers shall be permanently revegetated with non-woody species by the end of the growing season following completion of construction. For the purpose of this condition, maintained buffer areas are defined as areas within the transportation corridor that will be subject to regular maintenance activities including mowing. The area with non-maintained buffers shall be permanently revegetated with native woody species before the next growing season following completion of construction.
4. Pursuant to NCAC15A 2B .0233(6) sediment and erosion control devices shall not be placed in Zone 1 of any Neuse Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.

### Mitigation

The initial 401 Water Quality Certification (WQC) application for this project is dated July 10, 1997 and was approved April 7, 1998. During the permitting negotiations in 1998 it was decided that the GTP would offer all mitigation for the potential loss of 871 wetland acres without a provision for functional basis as part of the credit/debit process. The initial 401 WQC has remained active and an extension was granted on October 13, 2008. Therefore, in keeping with the April 7, 1998 and the October 13, 2008 401 WQC, no mitigation ratios are proposed as part of this certification. Instead, credits (at a 1:1 ratio) will be deducted from the remaining credits available to the Global TransPark in the Stonyton Creek, Dover Bay, and Frog Hollow Mitigations Sites as outlined below:

5. Compensatory mitigation for 394 linear feet of impact to streams is required. We understand that you have chosen to debit credits from the Stonyton Creek Conservation Area. According to the NCDWQ's records, this site has not gone through the final NCDWQ approval process to determine the amount of credits that will ultimately be available. Nonetheless, based in information provided to the NCDWQ, it appears at this time that there will be sufficient credits once final approval is given to meet the required mitigation for impacts approved with this WQC. However, should there be insufficient credits upon final approval of the site the GTP will be required to obtain the necessary credits by other means.

<b>Stonyton Creek Mitigation Site - Stream Credit</b>	
Site Credit History	Credits (feet)
Anticipated Available Credits Upon Final NCDWQ Approval:	2,906
Credits Used for Previous Projects:	2,100
Credits used for This Project:	394
<b>Anticipated Remaining Credits Upon Final NCDWQ Approval:</b>	<b>412</b>

6. Compensatory mitigation for impacts to 11,230 square feet of protected riparian buffers in Zone 1 and 6,622 square feet of protected riparian buffers in Zone 2 (a total of 17,852 ft<sup>2</sup>) shall be required. A total of 43,623 ft<sup>2</sup> of credit will be required. We understand that you have chosen to debit credits from the Stonyton Creek Conservation Area. According to the NCDWQ's records, this site has not gone through the final NCDWQ approval process to determine the amount of credits that will ultimately be available. Nonetheless, based in information provided to the NCDWQ, it appears at this time that there will be sufficient credits once final approval is given to meet the required mitigation for impacts approved with this WQC. However, should there be insufficient credits upon final approval of the site the GTP will be required to obtain the necessary credits by other means.

<b>Stonyton Creek Mitigation Site - Buffer Credit</b>	
Site Credit History	Credits (ft <sup>2</sup> /acres)
Anticipated Available Credits Upon Final NCDWQ Approval:	6,316,200 / 145.00
Credits Used for Previous Projects:	0 / 0
Credits used for This Project:	61,794 / 1.00
<b>Anticipated Remaining Credits Upon Final NCDWQ Approval:</b>	<b>6,254,406 / 144.00</b>

7. Compensatory mitigation for impacts to 0.85 acres riverine and 5.82 acres of non-riverine (a total of 6.67 acres) wetlands is required. We understand that you have chosen to debit credits from the Dover Bay Mitigation Site, the Frog Hollow Mitigation Site, and/or the Stonyton Creek Conservation area. According to the NCDWQ's records, none of these sites has gone through the final NCDWQ approval process to determine the amount of credits that will ultimately be available. Nonetheless, based in information provided to the NCDWQ, it appears at this time that there will be sufficient credits once final approval is given to meet the required mitigation for impacts approved with this WQC. However, should there be insufficient credits upon final approval of the sites the GTP will be required to obtain the necessary credits by other means.

Wetland Impact Summary			
Activity <sup>1</sup>	Riverine	Non-Riverine	Total
<b>Credits Allowed in April 7, 1998 WQC</b>	<b>106.40</b>	<b>764.50</b>	<b>870.90</b>
Runway Extension/Access Taxiway (10/21/1998)	22.70	--	22.70
Crescent Road (R-2719BA) (10/21/1998)	--	5.91	5.91
ALSF (10/21/1998)	--	12.40	12.40
Hardstand (7/10/1999)	--	8.60	8.60
Cargo Building (5/1/2001)	0.42	--	0.42
Utility Line Construction (9/18/2001)	--	2.17	2.17
Stonyton Creek Restoration Site <sup>2</sup> (8/21/2002)	0.00	0.00	0.00
Runway (clearing/grubbing) (9/4/2002)	--	13.50	13.50
John Mewborne Road Relocation (5/15/2003)	--	5.00	5.00
Glideslope Grading and ALSF Road (10/15/2003)	--	53.00	53.00
Institute Road <sup>3</sup> (2/28/2005)	0.00	0.00	0.00
Spirit Aerosystems Roads (9/16/2008 & 3/12/2009)	0.04	--	0.04
<b>Total of Previously Permitted Impacts</b>	<b>23.16</b>	<b>100.58</b>	<b>123.74</b>
Rail Spur (U-2928) Impacts	0.85	5.82 <sup>4</sup>	0.85
<b>Total Impacts (through this WQC)</b>	<b>24.01</b>	<b>106.40</b>	<b>124.59</b>
<b>REMAINING CREDITS</b>	<b>82.39</b>	<b>658.10</b>	<b>740.49</b>

<sup>1</sup> Dates shown are the date of application

<sup>2</sup> Impacts to 1.1 acres of wetlands were mitigated through creation of the SCRS, resulting in no net impacts

<sup>3</sup> Institute Road, although permitted, was never built and no impacts occurred

<sup>4</sup> Initial Impact was 8.11 acres, but was reduced to 5.82 based on latest USACE wetland verification.

#### General Conditions:

8. Unless otherwise approved in this certification, 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 the NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
9. 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.
10. 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.
11. 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.
12. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species.
13. 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 without prior written approval from the NCDWQ first.
14. No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters. This water shall be captured, treated, and disposed of properly.

15. All pile driving or drilling activities shall be enclosed in turbidity curtains unless otherwise approved by NCDWQ in this certification.
16. All bridge construction shall be performed from temporary work bridges or temporary causeways.
17. 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.
18. 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.
19. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species.
20. 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.
21. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval.
22. 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.
23. 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.
24. 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.
25. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
26. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
27. 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 the NCDWQ 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, NCDWQ may reevaluate and modify this certification.
28. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification.
29. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
30. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
31. 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.


32. Native riparian vegetation (ex. list trees and shrubs native to your geographic region) must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
33. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
34. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
  - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
  - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
  - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
35. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.
36. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
37. Upon completion of the project (including any impacts at associated borrow or waste sites), the Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify the NCDWQ when all work included in the 401 Certification has been completed.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 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 12th day of November 2009

DIVISION OF WATER QUALITY

  
Coleen H. Sullins  
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

**\* CERTIFICATE OF COMPLETION**

NCDWQ Project No.: \_\_\_\_\_ County: \_\_\_\_\_

Applicant: \_\_\_\_\_

Project Name: \_\_\_\_\_

Date of Issuance of 401 Water Quality Certification: \_\_\_\_\_

**Certificate of Completion**

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to NCDWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

**Applicant's Certification**

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Agent's Certification**

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Engineer's Certification**

\_\_\_\_\_ Partial \_\_\_\_\_ Final

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

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_

Date \_\_\_\_\_

**Special Conditions**

**SAW-2008-02650 North Carolina Global TransPark Railroad Spur**

- a. All work authorized by this permit must be performed in strict compliance with the attached plans, which are a part of this permit. Any modification to these plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.
- 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. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area. This prohibition applies to all borrow and fill activities connected with this project.
- c. 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 waters or wetlands or to reduce the reach of waters or wetlands.
- d. The Permittee shall schedule an onsite preconstruction meeting between its representatives, the contractor's representatives and the appropriate USACE Regulatory Project Manager prior to commencement of this project to ensure that there is a mutual understanding of all terms and conditions contained within the Department of the Army permit. The Permittee shall notify the USACE Project Manager a minimum of thirty (30) days in advance of the meeting in order to provide that individual with sufficient opportunity to schedule and participate in the required meeting.
- 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. 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, Ext. 526 or (800) 662-7956 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.
- f. The Permittee shall advise the Corps in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.
- 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.
- h. 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. A copy of this permit, including all conditions, shall be available at the project site during construction and maintenance of this project

- i. The Permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).
- j. The Permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.
- k. Violations of these conditions or violations of Section 404 of the Clean Water Act must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the Permittee's discovery of the violation.
- l. The Permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, within 60 days of project completion.
- m. 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.
- n. The Permittee shall conduct a survey for red cockaded woodpeckers and cavity trees within the railroad spur study area corridor plus an additional buffer of 0.5 mile from either side of the study area corridor. This shall be performed and a report submitted to the USACE within 45 days of the issuance of this permit. Should birds and/or cavity trees be observed, the Permittee shall immediately contact the USACE to discuss contingency measures.
- o. The width, height, and gradient of any pipe or culvert installed as a result of this permit must be sized to allow for the passage of average low and high water flows.
- p. Any pipe or culvert installed as a result of this permit shall be buried at least one (1) foot below normal bed elevation when placed within streams appearing as blue lines on United States Geological Survey (USGS) 7.5 minute quadrangle sheets.

#### **Wetland Mitigation Conditions**

- q. Within 30 days of permit issuance, the Permittee shall submit written documentation that

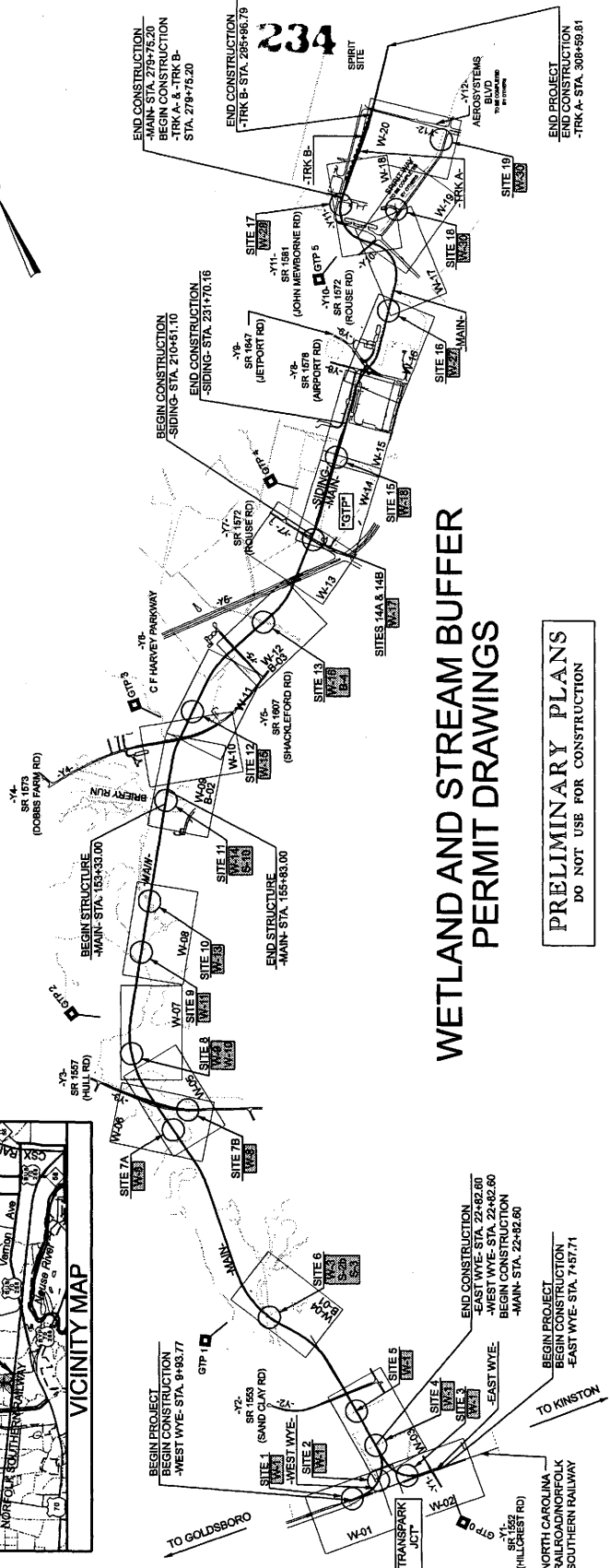
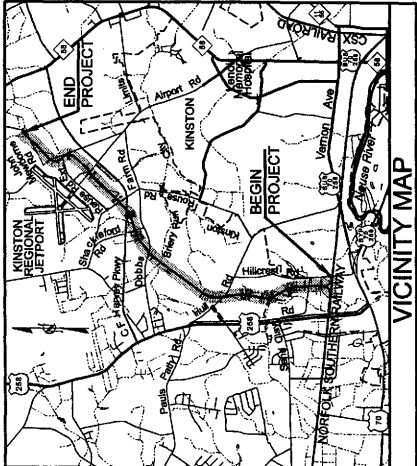
18.2 acres of property within the Dover Bay Restoration Area has been assigned to this project.

- r. Within 30 days of permit issuance, the Permittee shall submit written documentation that 394 linear feet of stream mitigation within the Stoneyton Creek restoration project has been assigned to this project.
- s. Within 60 days of permit issuance, the Permittee shall submit to the USACE a ledger depicting all permitted debits from the NCGTP mitigation properties, including this permit action and all other debits associated with the original permit (Action ID SAW-1992-02851).

STATE	N.C.
FEDERAL PROJECT NUMBER OR STATE PROJECT NUMBER	U-2928B
PROJECT TITLE	RAIL DIVISION
CONTRACT NUMBER	38989
DATE	
SCALE	1" = 100'
DESIGNER	
CHECKED	
APPROVED	

**NCDOT  
RAIL DIVISION  
LENOIR COUNTY**

**LOCATION: NORTH CAROLINA GLOBAL TRANSPARK**  
**TYPE OF WORK: RAIL ACCESS ON NEW LOCATION FROM NCRR MP EC-22.6 WEST OF KINSTON TO NORTH CAROLINA GLOBAL TRANSPARK**

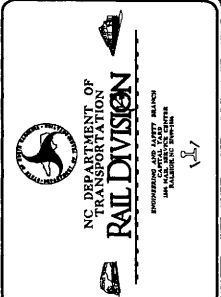


**WETLAND AND STREAM BUFFER  
PERMIT DRAWINGS**

**PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION**

**TIP PROJECT: U-2928B**

**CONTRACT: 38989**



HYDRAULICS ENGINEER	_____ P.E.
RAIL ENGINEER	_____ P.E.
ROADWAY DESIGN ENGINEER	_____ P.E.

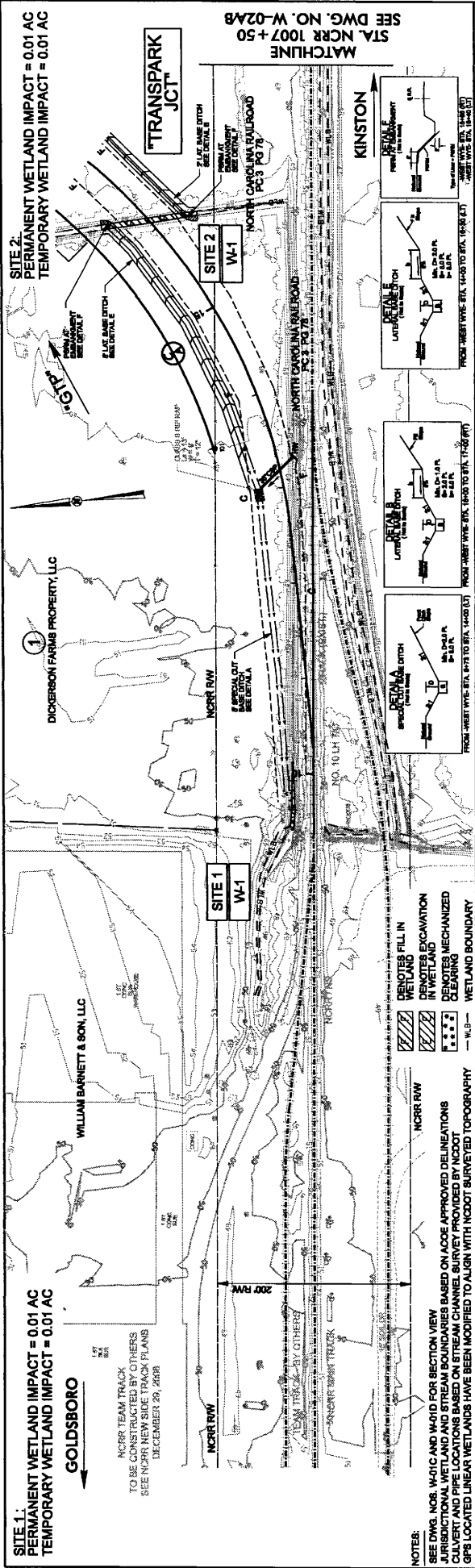
Prepared in the Office of  
**HNTB** NORTH CAROLINA, P.C.  
 845 E. Six Forks Road, Suite 200  
 Raleigh, North Carolina 27609

2008 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: \_\_\_\_\_

LETTING DATE: \_\_\_\_\_

<b>PROJECT LENGTH</b>	5.70 mi.
LENGTH OF RAIL TIP PROJECT U-2928B	0.95 mi.
OTHER THAN MAIN TRACK	
LENGTH OF STRUCTURES TIP PROJECT U-2928B	0.05 mi.
LENGTH OF ROADWAY TIP PROJECT U-2928B	1.21 mi.



**SITE 1:**  
 PERMANENT WETLAND IMPACT = 0.01 AC  
 TEMPORARY WETLAND IMPACT = 0.01 AC

**GOLDSBORO**

←

NCRW TEAM TRACK  
 TO BE CONSTRUCTED BY OTHERS  
 SEE NCRW NEW SIDE TRACK PLANS  
 DECEMBER 29, 2008

**SITE 2:**  
 PERMANENT WETLAND IMPACT = 0.01 AC  
 TEMPORARY WETLAND IMPACT = 0.01 AC

**TRANSARK JCT**

→

SEE DWG. NO. W-02A8  
 STA. NCRW 1007+50  
 MATCHLINE

**NOTES:**

SEE DWG. NOS. W-01C AND W-01D FOR SECTION VIEW  
 WETLANDS AND W-01E FOR SOILS. BASED ON LADCO APPROVED DELINEATIONS  
 CURVED AND PERMANENT WETLANDS BASED ON MECHANIZED SURVEY PROVIDED BY NCRW  
 GPS LOCATED LINEAR WETLANDS HAVE BEEN MODIFIED TO ALIGN WITH NCRW SURVEYED TOPOGRAPHY.

--- W-1 --- WETLAND BOUNDARY

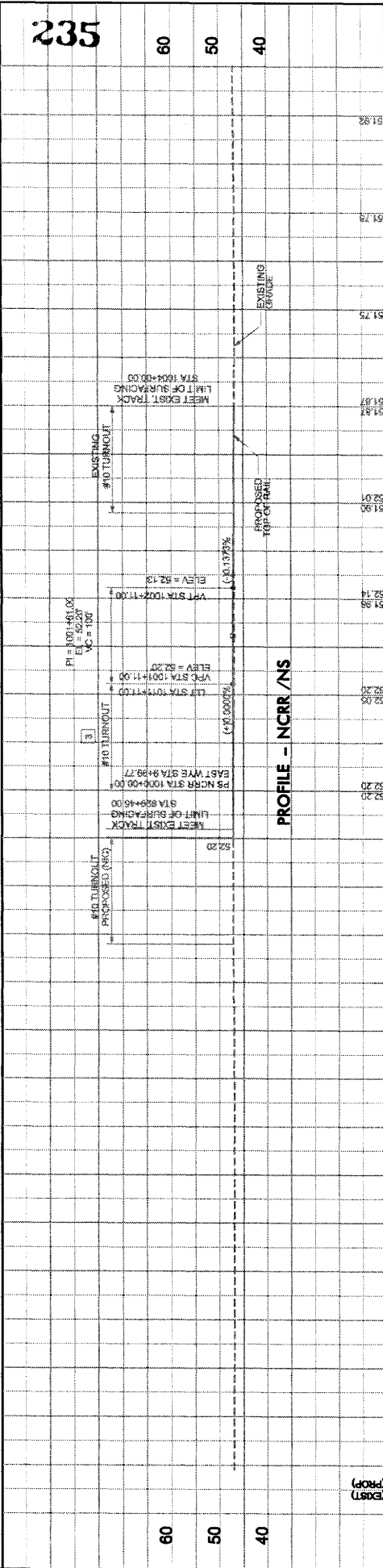
DENOTES FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES MECHANIZED

DENOTES WETLAND BOUNDARY

--- W-1 --- WETLAND BOUNDARY



525

60  
50  
40

PROFILE - NCRW / NS

REV. NO.	DATE	BY	APP. BY	DESCRIPTION

<p>HNTB          HNTB NORTH CAROLINA, INC.          8010 S. HARRIS BLVD., SUITE 200          RALEIGH, NORTH CAROLINA 27608-0000</p>	<p>RAIL DIVISION</p>	<p>GTP Rail Access</p>	<p>NC DEPARTMENT OF TRANSPORTATION</p>	<p>NCGTP RAIL ACCESS          STREAM &amp; WETLAND IMPACTS          SITES 1 &amp; 2</p>	<p>PROJECT NUMBER: 44875          DRAWING NO: W-01A          SCALE: HORIZONTAL 1"=100'          VERTICAL 1"=20'          SHEET NO:</p>
<p>DESIGNED BY: JAB          DRAWN BY: PER          CHECKED BY: JCK          DATE: JUNE 17, 2009</p>	<p>KINSTON, NC</p>	<p>44875</p>	<p>W-01A</p>	<p>1"=100'</p>	<p>1"=20'</p>

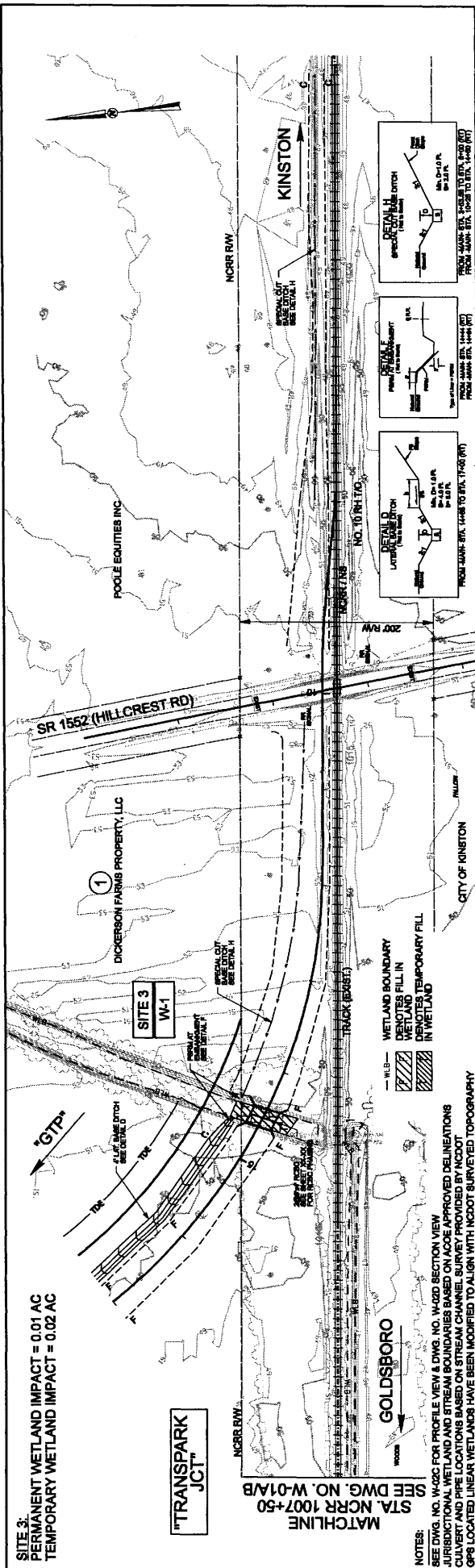








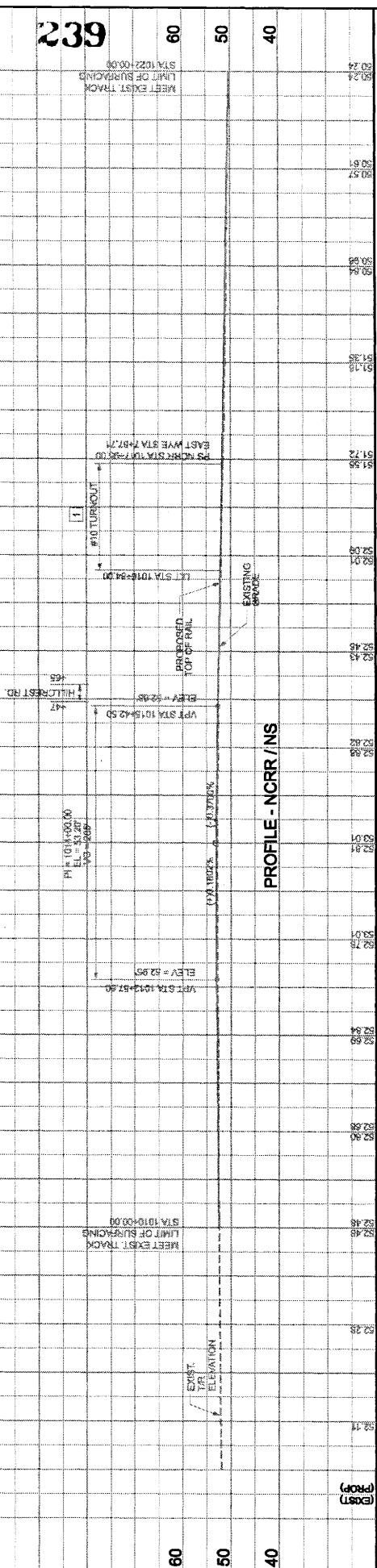
**SITE 3:**  
 PERMANENT WETLAND IMPACT = 0.01 AC  
 TEMPORARY WETLAND IMPACT = 0.02 AC



**"TRANSPARK JCT"**

**MATCHLINE**  
 STA NCR 1007+50  
 SEE DWG. NO. W-01A/B

**NOTES:**  
 1. SEE DWG. NO. W-02C FOR PROFILE VIEW & DWG. NO. W-02D SECTION VIEW  
 2. JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ADOPTED DELINEATIONS  
 3. CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCDOT  
 4. GPS LOCATED LINEAR WETLANDS HAVE BEEN MODIFIED TO ALIGN WITH NCDOT SURVEYED TOPOGRAPHY



REV. NO.	DATE	BY	APP. BY	DESCRIPTION

HNTB HNTB NORTH CAROLINA, P.O. BOX 800 10110 W. NORTH CAROLINA ST. RALEIGH, NORTH CAROLINA 27616		NC DEPARTMENT OF TRANSPORTATION 		PROJECT NUMBER: 44875 DRAWING NO.: W-02A SCALE: HORIZONTAL: 1"=100' VERTICAL: 1"=20' SHEET NO.:	
STREAM & WETLAND IMPACTS SITE 3 KINSTON, NC				PROJECT NUMBER: 44875 DRAWING NO.: W-02A SCALE: HORIZONTAL: 1"=100' VERTICAL: 1"=20' SHEET NO.:	











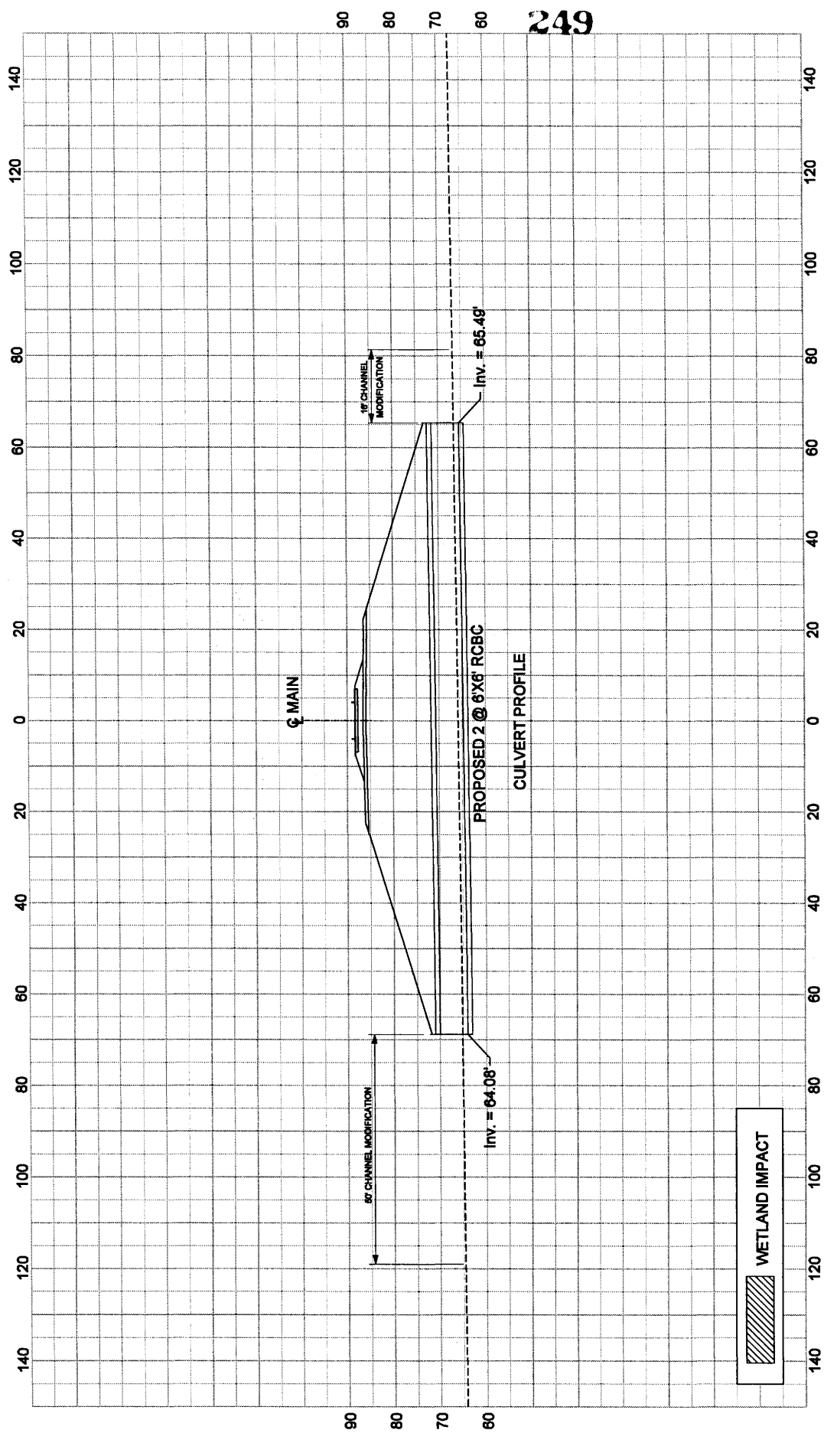












249

PROJECT NUMBER:	44875
DRAWING NO.:	W-04C
SCALE:	1" = 20'
SHEET NO.:	

NC DOT  
**NC&T**  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RAIL DIVISION



NC DOT  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RAIL DIVISION

**HNTB**  
 HNTB NORTH CAROLINA, P.C.  
 1000 W. HARRIS STREET, SUITE 100  
 RALEIGH, NC 27601  
 (919) 873-8800

NC DOT  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RAIL DIVISION

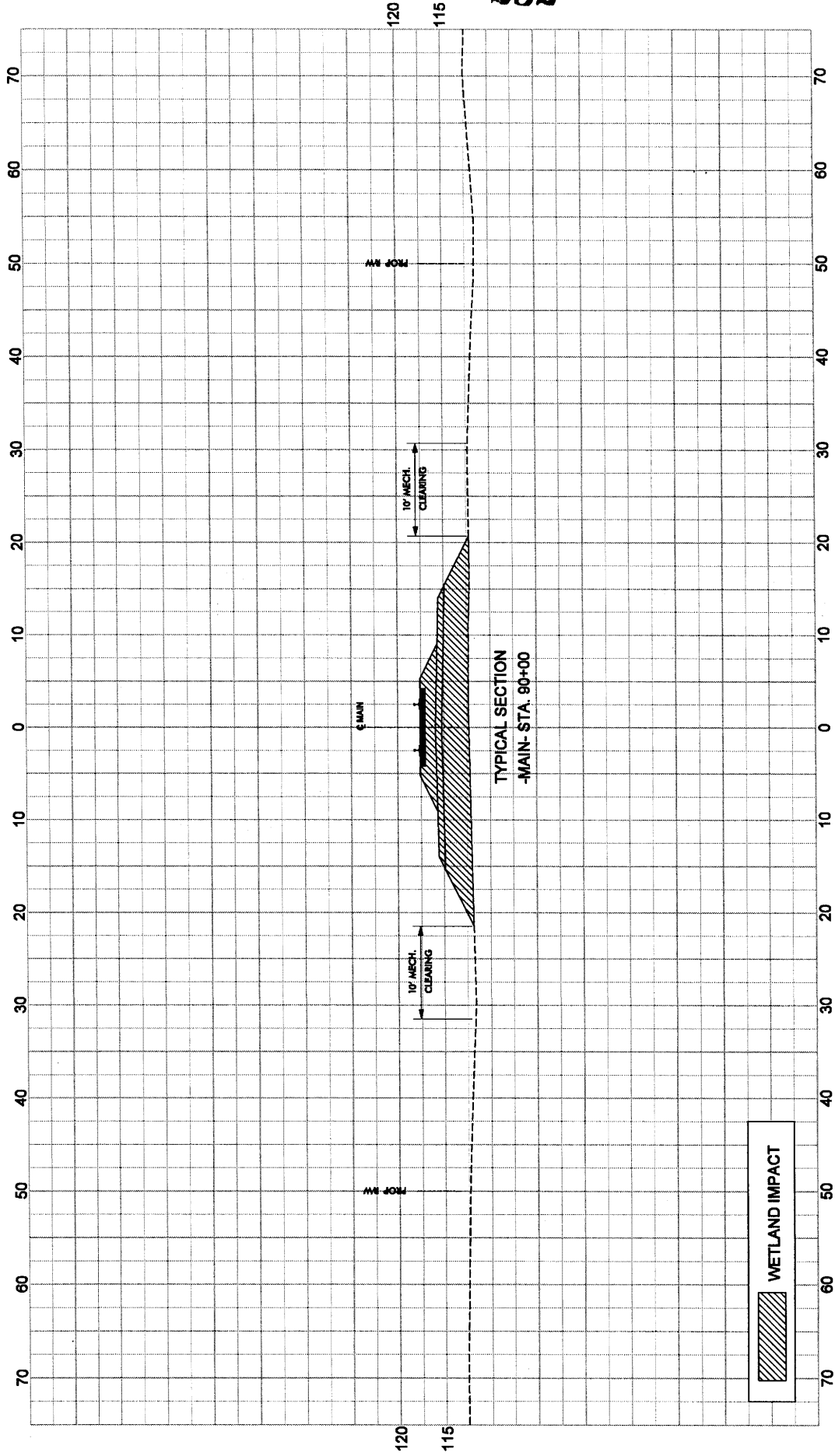
DESIGNED BY:	JAB
DRAWN BY:	CPV
CHECKED BY:	JACK
DATE:	JUNE 17, 2008

REV. NO.	DATE	BY	APP. BY	DESCRIPTION

NC DOT  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RAIL DIVISION







PROJECT NUMBER:	44675			
DRAWING NO.:	W-06C			
SCALE:	1" = 10'			
SHEET NO.:				
<p>NCGTP RAIL ACCESS STREAM &amp; WETLAND IMPACTS TYPICAL SECTION SITE 7A KINSTON, NC</p>				
<p>NC DEPARTMENT OF TRANSPORTATION RAIL DIVISION</p>				
<p>DESIGNED BY: JAB DRAWN BY: CPV CHECKED BY: JJK DATE: JUNE 17, 2009</p>				
REV. NO.	DATE	BY	APP. BY	DESCRIPTION

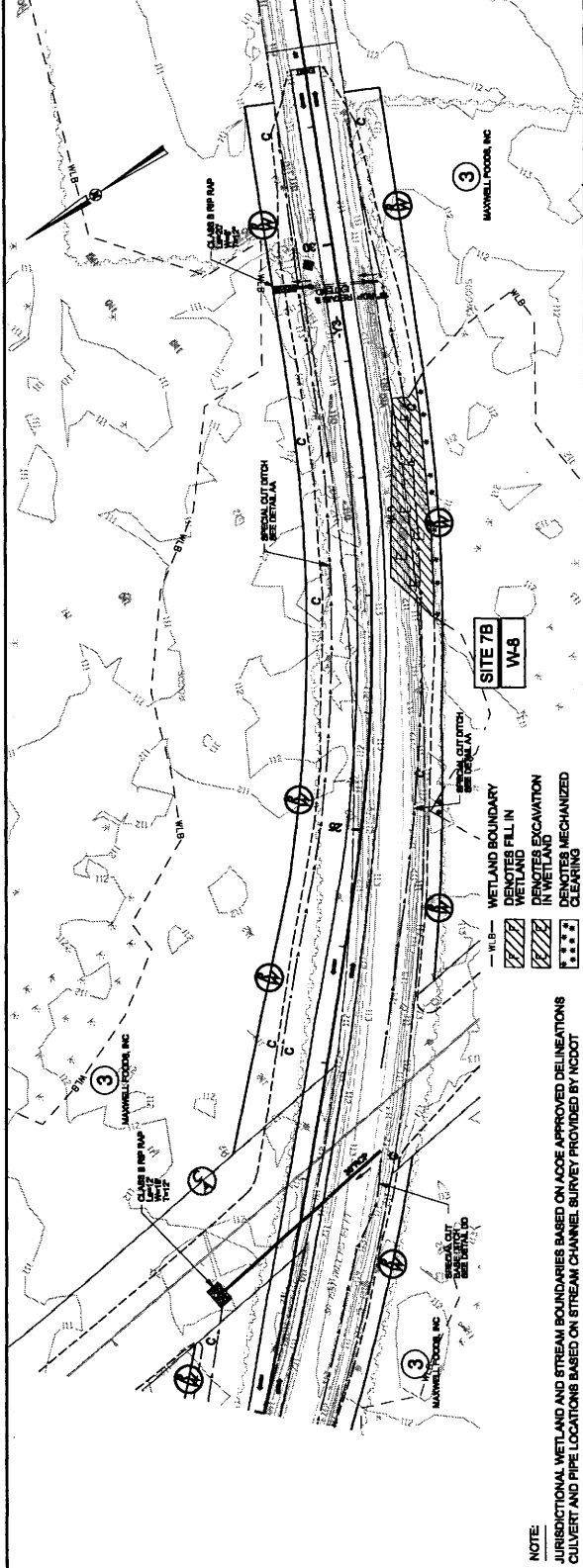


PROPOSED AND EXISTING  
WETLANDS AND WATER BODIES  
AS SHOWN ON THIS PLAN



3418 ROSIE PARKWAY  
SUITE 100  
DURHAM, NORTH CAROLINA 27605

**SITE 7B:**  
**PERMANENT WETLAND IMPACT = 0.12 AC**  
**TEMPORARY WETLAND IMPACT = 0.04 AC**



**NOTE:**  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCDOT

W.B. — WETLAND BOUNDARY  
 DENOTES FILL IN WETLAND  
 DENOTES EXCAVATION IN WETLAND  
 DENOTES MECHANIZED CLEARING

PIPE HYDRAULIC DATA  
 DRAINAGE AREA = 11.4 CFS  
 DESIGN FLOW = 28 CFS  
 DESIGN HW ELEVATION = 111.8  
 100 YEAR DISCHARGE = 30 CFS  
 100 YEAR FLOODING ELEVATION = 111.9  
 OVERTOPPING PROBABILITY = 0.001  
 OVERTOPPING DISCHARGE = 111.8  
 OVERTOPPING ELEVATION = 111.8

PIPE HYDRAULIC DATA  
 DRAINAGE AREA = 11.4 CFS  
 DESIGN FLOW = 28 CFS  
 DESIGN HW ELEVATION = 111.8  
 100 YEAR DISCHARGE = 30 CFS  
 100 YEAR FLOODING ELEVATION = 111.9  
 OVERTOPPING PROBABILITY = 0.001  
 OVERTOPPING DISCHARGE = 111.8  
 OVERTOPPING ELEVATION = 111.8

PIPE HYDRAULIC DATA  
 DRAINAGE AREA = 11.4 CFS  
 DESIGN FLOW = 28 CFS  
 DESIGN HW ELEVATION = 111.8  
 100 YEAR DISCHARGE = 30 CFS  
 100 YEAR FLOODING ELEVATION = 111.9  
 OVERTOPPING PROBABILITY = 0.001  
 OVERTOPPING DISCHARGE = 111.8  
 OVERTOPPING ELEVATION = 111.8

STATION	DESCRIPTION	ELEVATION
120	END CONSTRUCTION	112.53
119	CUT V DITCH LT	112.48
118	END SPECIAL	112.40
117	CUT V DITCH RT	112.30
116	END SPECIAL	112.28
115	CUT V DITCH LT	112.27
114	END SPECIAL	112.26
113	CUT V DITCH RT	112.25
112	END SPECIAL	112.24
111	CUT V DITCH LT	112.23
110	END SPECIAL	112.22
109	CUT V DITCH RT	112.21
108	END SPECIAL	112.20
107	CUT V DITCH LT	112.19
106	END SPECIAL	112.18
105	CUT V DITCH RT	112.17
104	END SPECIAL	112.16
103	CUT V DITCH LT	112.15
102	END SPECIAL	112.14
101	CUT V DITCH RT	112.13
100	END SPECIAL	112.12
99	CUT V DITCH LT	112.11
98	END SPECIAL	112.10
97	CUT V DITCH RT	112.09
96	END SPECIAL	112.08
95	CUT V DITCH LT	112.07
94	END SPECIAL	112.06
93	CUT V DITCH RT	112.05
92	END SPECIAL	112.04
91	CUT V DITCH LT	112.03
90	END SPECIAL	112.02

**NC DEPARTMENT OF TRANSPORTATION**  
**RAIL DIVISION**

**HNTB**  
 HNTB NORTH CAROLINA, P.O. BOX 11818, RALEIGH, NC 27618  
 TEL: 919.873.8000 FAX: 919.873.8000

**GTP Rail Access**

**NCGTP RAIL ACCESS**  
**STREAM & WETLAND IMPACTS**

**SITE 7B**  
 KINSTON, NC

REV. NO.	DATE	BY	APP. BY	DESCRIPTION

PROJECT NUMBER:	44875
DRAWING NO.:	W-06A
SCALE:	HORIZONTAL 1"=30'
	VERTICAL 1"=20'
SHEET NO.:	











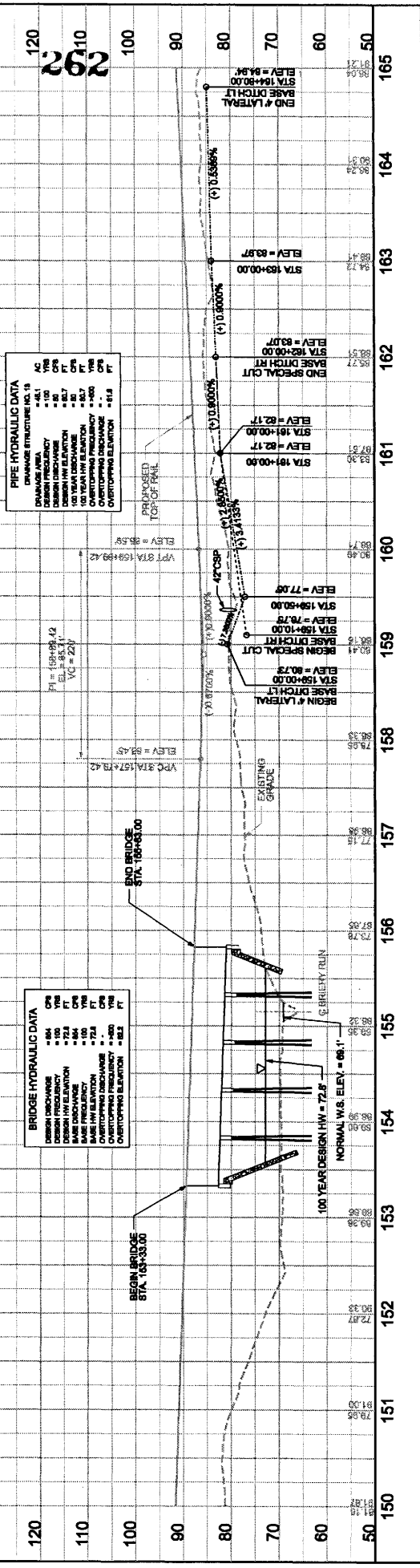
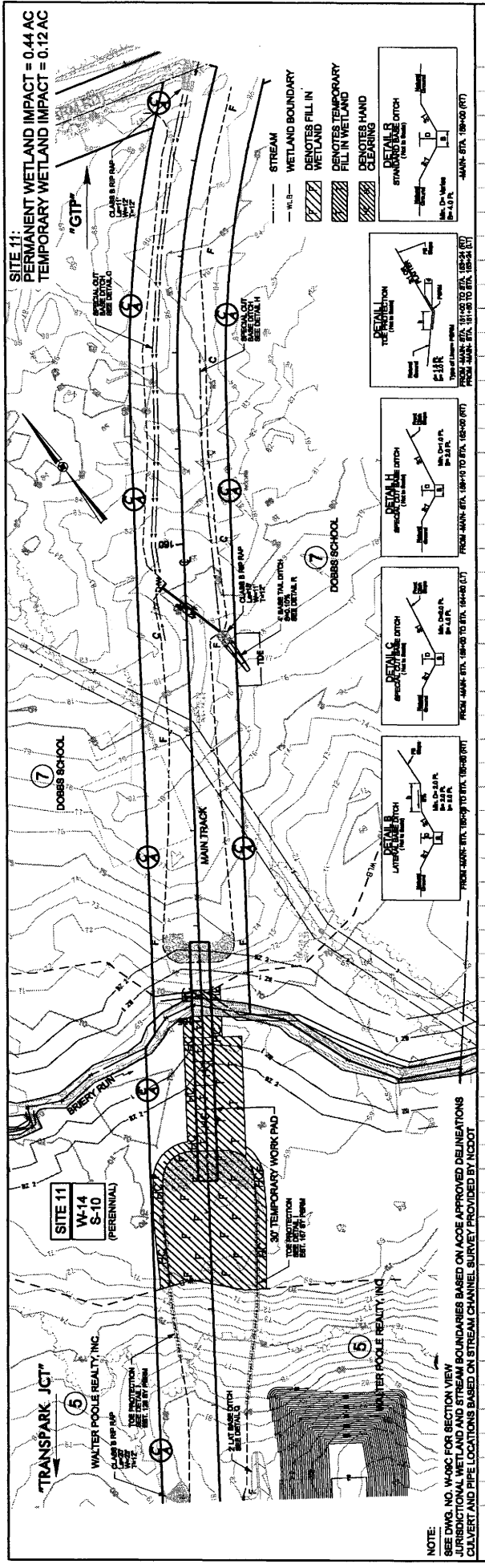












**PROJECT INFORMATION**  
 PROJECT NUMBER: 44875  
 DRAWING NO: W-09A  
 SCALE: HORIZONTAL 1"=50'  
 VERTICAL 1"=20'  
 SHEET NO: 11 OF 20

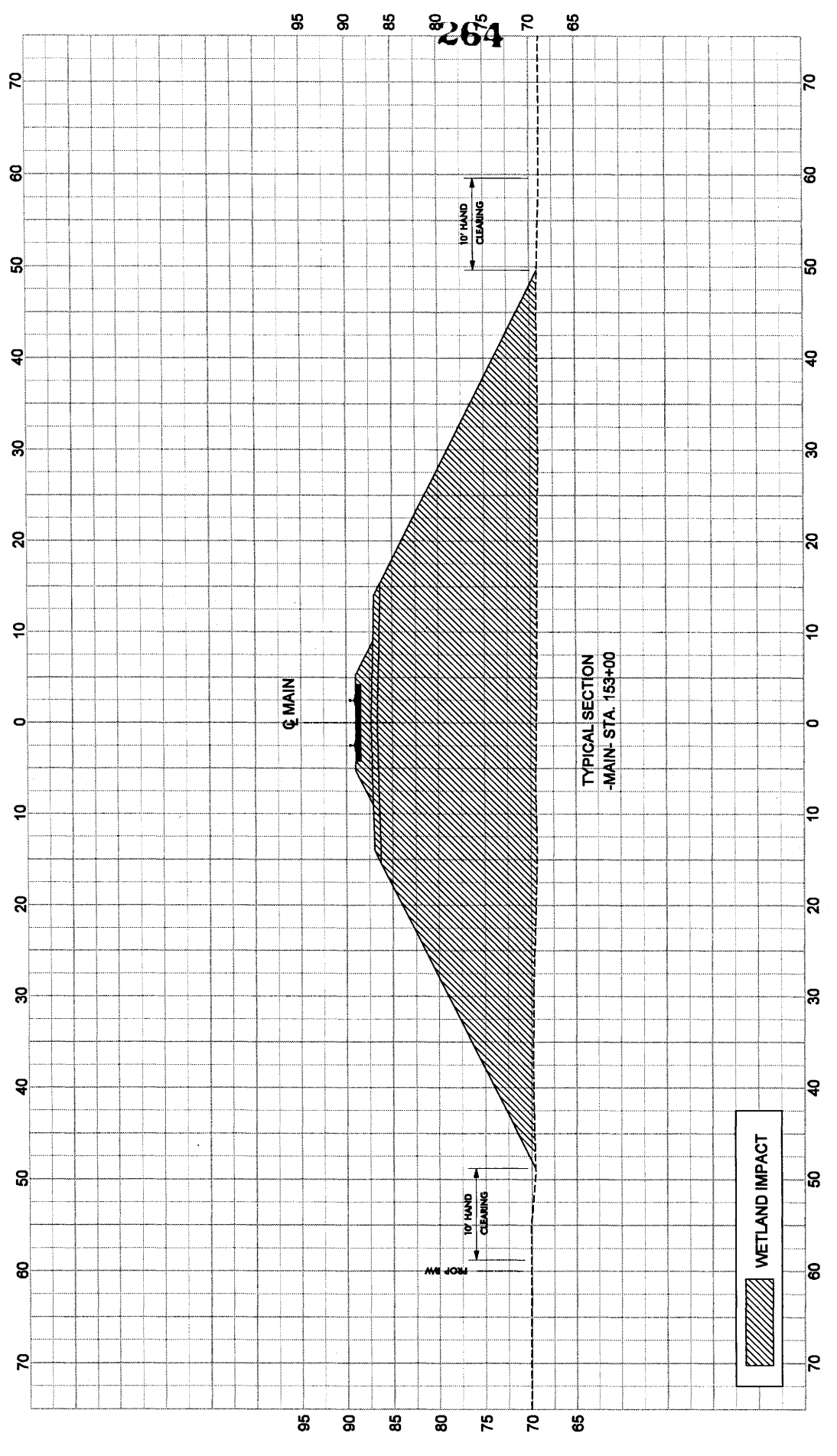
**CLIENT INFORMATION**  
 NC DEPARTMENT OF TRANSPORTATION  
 RAIL DIVISION  
 HNTB  
 HNTB NORTH CAROLINA, P.O. BOX 280  
 1101 E. 8th Street, Raleigh, NC 27602

**DESIGNER INFORMATION**  
 DESIGNED BY: JAB  
 DRAWN BY: PER  
 CHECKED BY: JJK  
 DATE: JUNE 17, 2009

**DESCRIPTION**

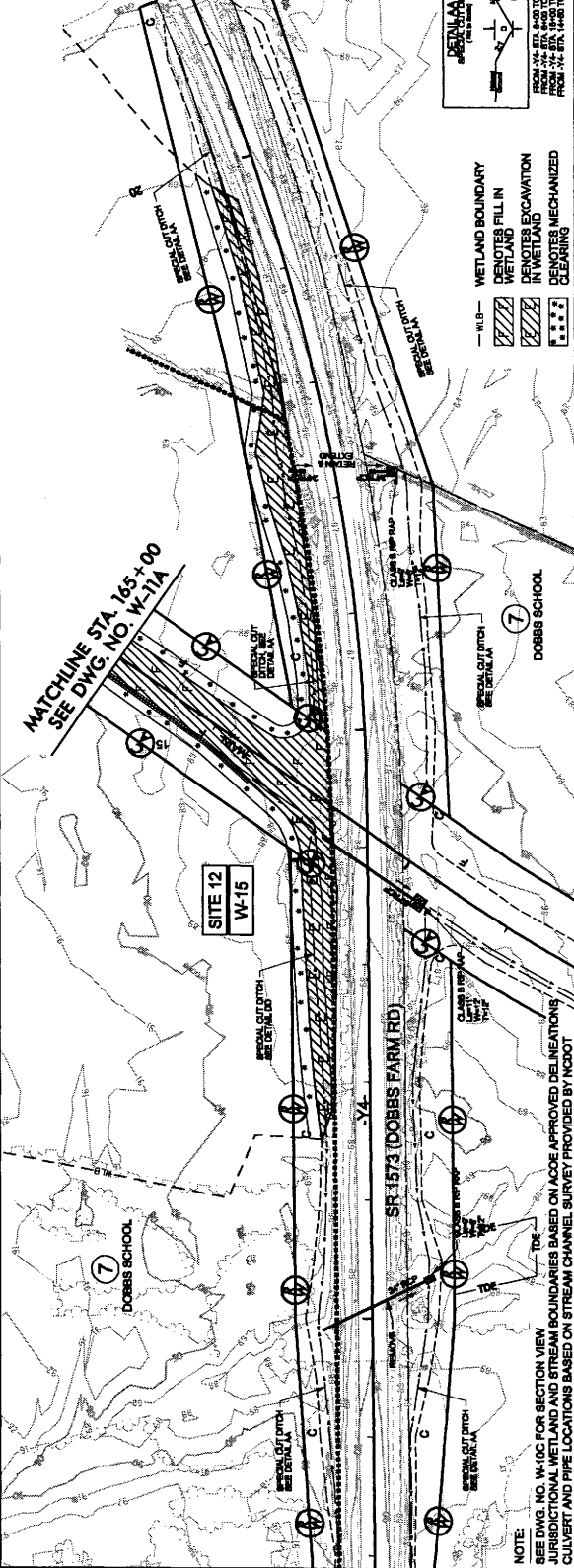
**TITLE**  
 SITE 11  
 KINSTON, NC



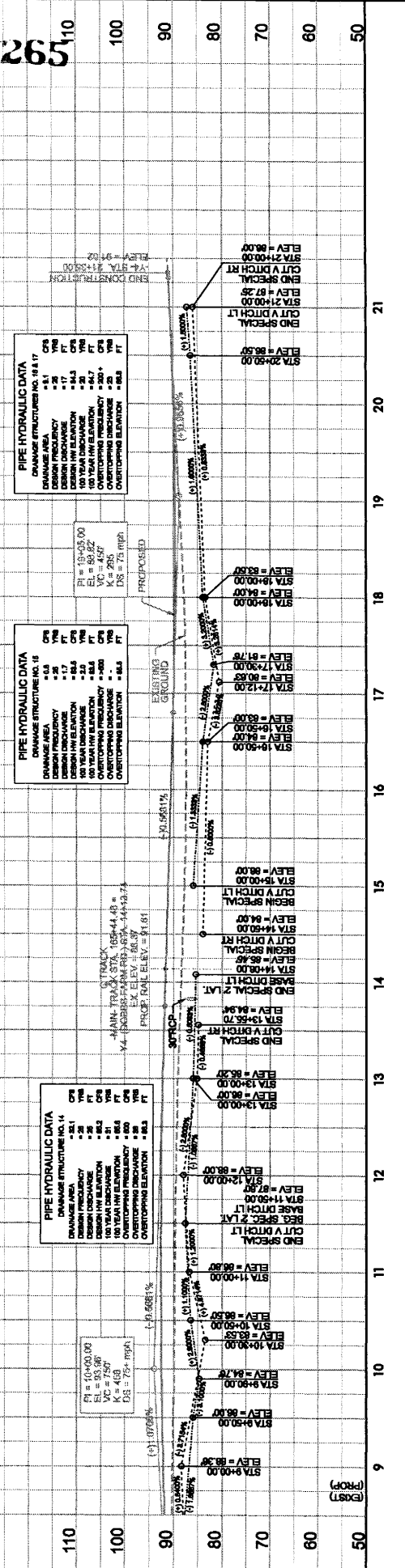


REV. NO	DATE	BY	APP. BY	DESCRIPTION
DRAWN BY: JAB CHECKED BY: JJK DATE: JUNE 17, 2008				
 NC DEPARTMENT OF TRANSPORTATION <b>RAIL DIVISION</b>  <b>HNTB</b>				
 <b>GTP</b> Rail Access				
PROJECT NUMBER: 44875 DRAWING NO: W-08C SCALE: 1" = 10' SHEET NO:				
NCCTP RAIL ACCESS STREAM & WETLAND IMPACTS <b>TYPICAL SECTION          SITE 11</b> KINSTON, NC				

**SITE 12:**  
 PERMANENT WETLAND IMPACT = 1.41 AC  
 TEMPORARY WETLAND IMPACT = 0.89 AC



NOTE:  
 SEE DWG. NO. W-10C FOR SECTION VIEW  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NODOT



REV. NO. DATE BY APP. BY DESCRIPTION

CREATED BY JAB  
 DRAWN BY PER  
 CHECKED BY JCK  
 DATE JUNE 17, 2009

PROJECT NUMBER: 44875  
 DRAWING NO. W-10A  
 SCALE: HORIZONTAL 1"=40'  
 VERTICAL 1"=20'  
 SHEET NO.

NC DEPARTMENT OF TRANSPORTATION  
**RAIL DIVISION**

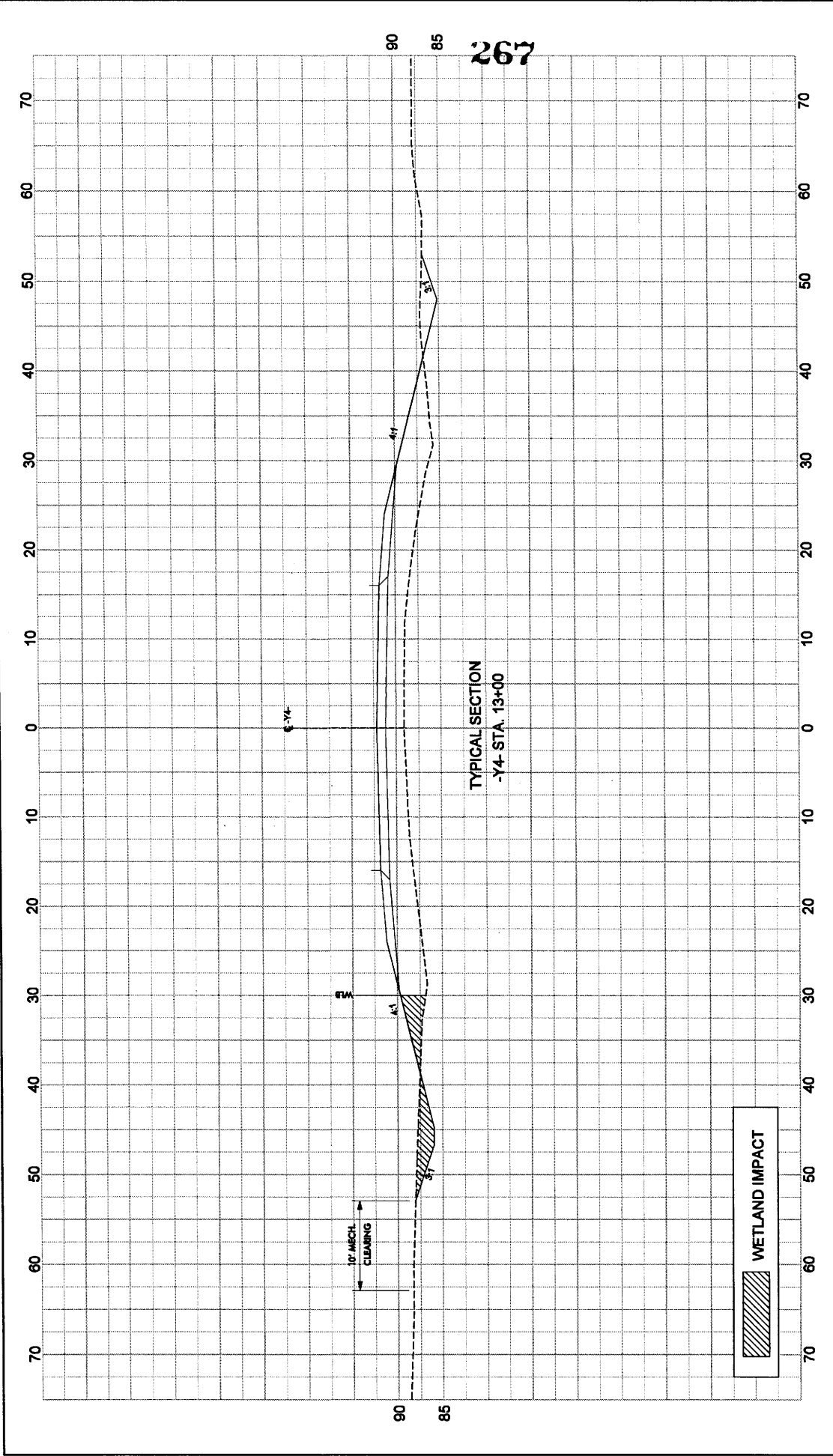
**GTP** Rail Access

**HNTB** HNTB NORTH CAROLINA, P.O. BOX 11680  
 815 EAST 7TH STREET, SUITE 200  
 CHARLOTTE, NC 28202  
 704.375.8000

**NCGTP RAIL ACCESS**  
**STREAM & WETLAND IMPACTS**

**SITE 12**  
 KINSTON, NC



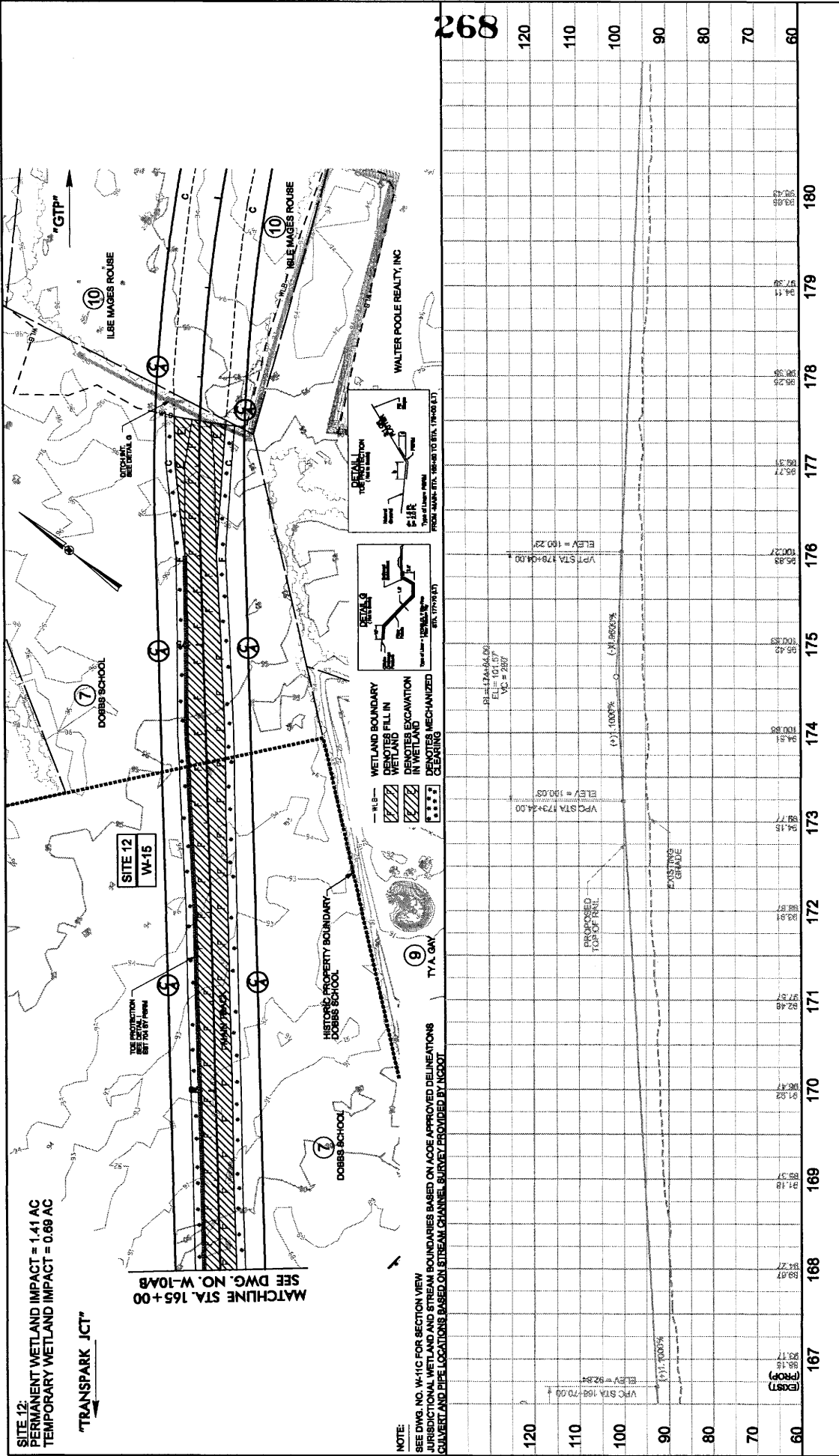


267

REV. NO.	DATE	BY	APP. BY	DESCRIPTION

DESIGNED BY: JAB	DATE: JUNE 17, 2009
DRAWN BY: CPV	CHECKED BY: JJK
<p> </p>	
<p> </p>	
<p> <b>HNTB</b> HNTB NORTH CAROLINA, P.C. 1000            2151 W. GARDEN CITY BLVD. SUITE 300            GARDEN CITY, NC 27529         </p>	
<p> <b>GTP</b> Rail Access  <b>NCGTP RAIL ACCESS            STREAM &amp; WETLAND IMPACTS            TYPICAL SECTION            SITE 12            KINGSTON, NC</b> </p>	
PROJECT NUMBER: 44875	DRAWING NO: W-10C
SCALE: 1" = 10'	SHEET NO:



SITE 12:  
 PERMANENT WETLAND IMPACT = 1.41 AC  
 TEMPORARY WETLAND IMPACT = 0.69 AC  
 SEE DWG. NO. W-10A/B

MATCHLINE STA. 165+00  
 SEE DWG. NO. W-10A/B

NOTE:  
 SEE DWG. NO. W-11C FOR SECTION VIEW  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCDOT

REF. NO.	DATE	BY	APP. BY	DESCRIPTION	DESIGNED BY	JAB	DRAWN BY	PER	CHECKED BY	JJK	DATE
											JUNE 17, 2008

PROJECT NUMBER	44875
DRAWING NO.	W-11A
SCALE	HORIZONTAL: 1"=100'
	VERTICAL: 1"=20'
SHEET NO.	

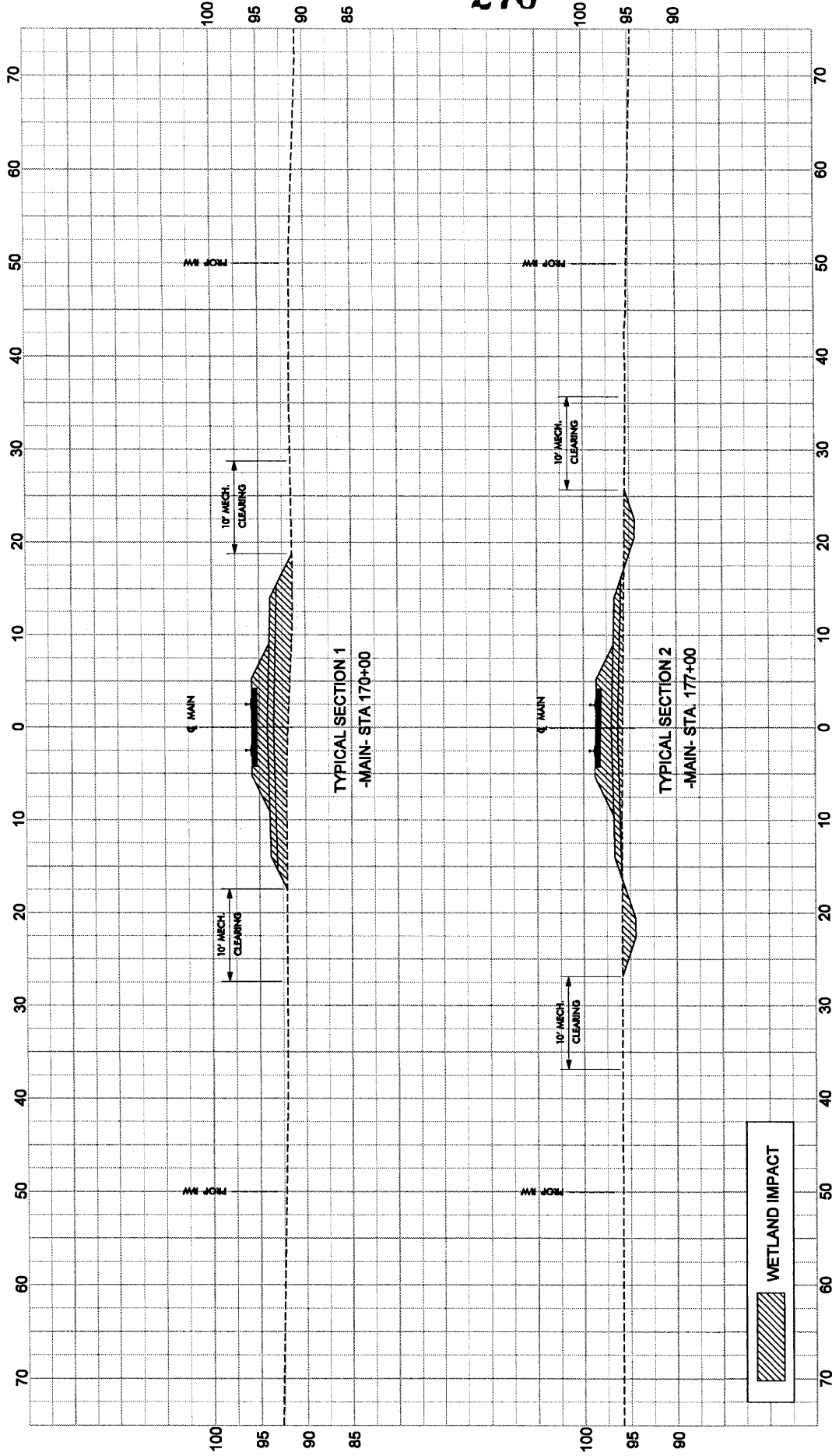
  

		<b>NC DEPARTMENT OF TRANSPORTATION</b> <b>RAIL DIVISION</b>	
<b>NCGTP RAIL ACCESS</b> <b>STREAM &amp; WETLAND IMPACTS</b>		<b>SITE 12</b> KINGSTON, NC	





270



REV. NO.	DATE	BY	APP. BY	DESCRIPTION

DESIGNED BY: JAB	 <b>HNTB</b> <small>HNTB NORTH CAROLINA, P. O. BOX 800          10150 W. NORTH CAROLINA DRIVE          RALEIGH, NORTH CAROLINA 27615</small>	 <b>RAIL DIVISION</b> <small>NC DEPARTMENT OF TRANSPORTATION          TRANSPORTATION</small>	 <b>GTP Rail Access</b> <small>NCGTP RAIL ACCESS          STREAM &amp; WETLAND IMPACTS          TYPICAL SECTION          SITE 12          KINGSTON, NC</small>	PROJECT NUMBER: 44875
DRAWN BY: CPV				DRAWING NO.: W-11C
CHECKED BY: JKK				SCALE: 1" = 10'
DATE: JUNE 17, 2009				SHEET NO.:







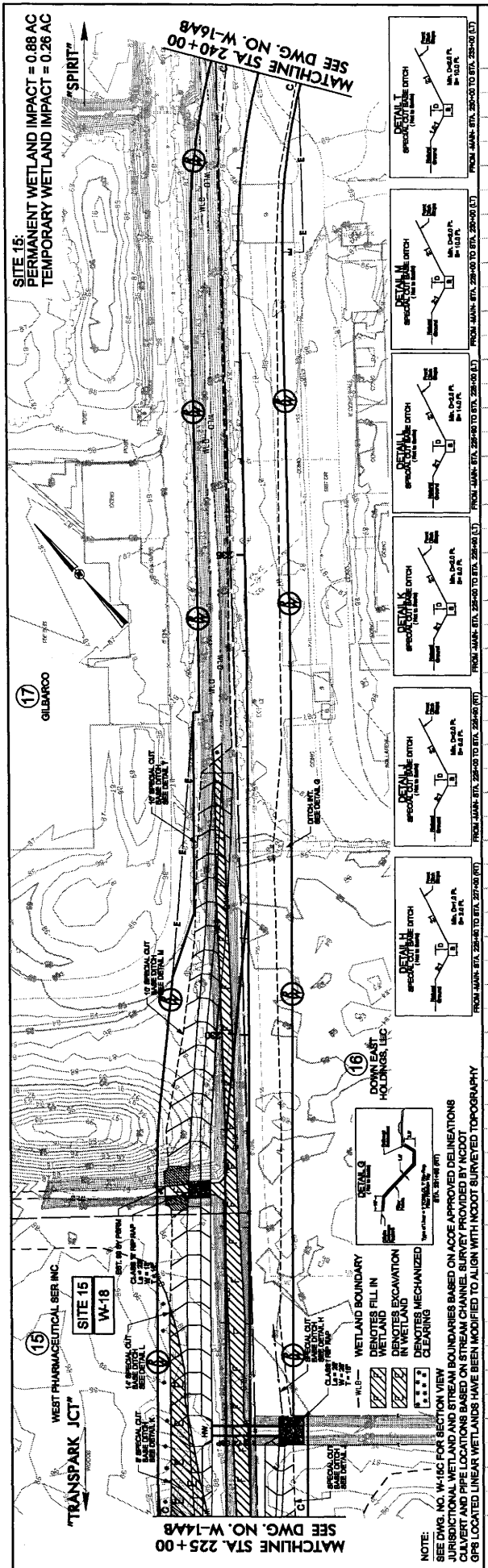












STATION	ELEVATION	DESCRIPTION
225	68.25	END SPECIAL CUT
225	68.25	BASE DITCH RT
225	68.25	START SPECIAL CUT
225	68.25	BASE DITCH LT
225	68.25	END SPECIAL CUT
226	68.25	END SPECIAL CUT
226	68.25	BASE DITCH RT
226	68.25	START SPECIAL CUT
226	68.25	BASE DITCH LT
226	68.25	END SPECIAL CUT
227	68.25	END SPECIAL CUT
227	68.25	BASE DITCH RT
227	68.25	START SPECIAL CUT
227	68.25	BASE DITCH LT
227	68.25	END SPECIAL CUT
228	68.25	END SPECIAL CUT
228	68.25	BASE DITCH RT
228	68.25	START SPECIAL CUT
228	68.25	BASE DITCH LT
228	68.25	END SPECIAL CUT
229	68.25	END SPECIAL CUT
229	68.25	BASE DITCH RT
229	68.25	START SPECIAL CUT
229	68.25	BASE DITCH LT
229	68.25	END SPECIAL CUT
230	68.25	END SPECIAL CUT
230	68.25	BASE DITCH RT
230	68.25	START SPECIAL CUT
230	68.25	BASE DITCH LT
230	68.25	END SPECIAL CUT
231	68.25	END SPECIAL CUT
231	68.25	BASE DITCH RT
231	68.25	START SPECIAL CUT
231	68.25	BASE DITCH LT
231	68.25	END SPECIAL CUT
232	68.25	END SPECIAL CUT
232	68.25	BASE DITCH RT
232	68.25	START SPECIAL CUT
232	68.25	BASE DITCH LT
232	68.25	END SPECIAL CUT
233	68.25	END SPECIAL CUT
233	68.25	BASE DITCH RT
233	68.25	START SPECIAL CUT
233	68.25	BASE DITCH LT
233	68.25	END SPECIAL CUT
234	68.25	END SPECIAL CUT
234	68.25	BASE DITCH RT
234	68.25	START SPECIAL CUT
234	68.25	BASE DITCH LT
234	68.25	END SPECIAL CUT
235	68.25	END SPECIAL CUT
235	68.25	BASE DITCH RT
235	68.25	START SPECIAL CUT
235	68.25	BASE DITCH LT
235	68.25	END SPECIAL CUT
236	68.25	END SPECIAL CUT
236	68.25	BASE DITCH RT
236	68.25	START SPECIAL CUT
236	68.25	BASE DITCH LT
236	68.25	END SPECIAL CUT
237	68.25	END SPECIAL CUT
237	68.25	BASE DITCH RT
237	68.25	START SPECIAL CUT
237	68.25	BASE DITCH LT
237	68.25	END SPECIAL CUT
238	68.25	END SPECIAL CUT
238	68.25	BASE DITCH RT
238	68.25	START SPECIAL CUT
238	68.25	BASE DITCH LT
238	68.25	END SPECIAL CUT
239	68.25	END SPECIAL CUT
239	68.25	BASE DITCH RT
239	68.25	START SPECIAL CUT
239	68.25	BASE DITCH LT
239	68.25	END SPECIAL CUT
240	68.25	END SPECIAL CUT
240	68.25	BASE DITCH RT
240	68.25	START SPECIAL CUT
240	68.25	BASE DITCH LT
240	68.25	END SPECIAL CUT

PIPE HYDRAULIC DATA

DRAINAGE AREA = 87.3 AC

DESIGN FLOW = 300 CFS

DESIGN HW ELEVATION = 84.1 FT

DESIGN SW ELEVATION = 81.1 FT

DESIGN VIB FREQUENCY = 800 CPM

OVERTOPPING FREQUENCY = 800 CPM

OVERTOPPING DISCHARGE = 84.3 CFS

OVERTOPPING ELEVATION = 84.3 FT

WETLAND BOUNDARY

PERMANENT WETLAND

TEMPORARY WETLAND

WETLAND FILL IN

PERMANENT EXCAVATION

TEMPORARY EXCAVATION

MECHANIZED CLEARING

NON-MECHANIZED CLEARING

CLASSED BY NCEM

CLASS I PERMANENT

CLASS II PERMANENT

CLASS I TEMPORARY

CLASS II TEMPORARY

NOTE: SEE DWG. NO. W-10C FOR SECTION VIEW JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ASCE APPROVED DELINEATIONS SURVEYED BY HNTB. GPS LOCATED LINEAR WETLANDS HAVE BEEN MODIFIED TO ALIGN WITH NCEM SURVEY TOPOGRAPHY

REV. NO.	DATE	BY	APP. BY	DESCRIPTION

DESIGNED BY	JAB
DRAWN BY	PER
CHECKED BY	JCK
DATE	JUNE 17, 2008

NC DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

RAIL ACCESS

STREAM & WETLAND IMPACTS

SITE 15

KINSTON, NC

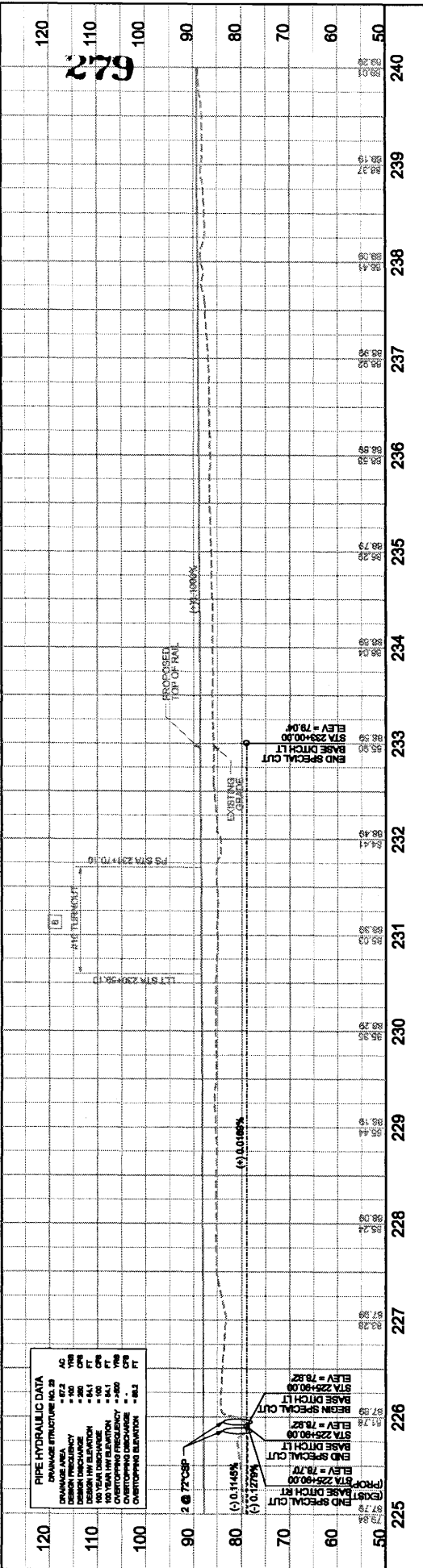
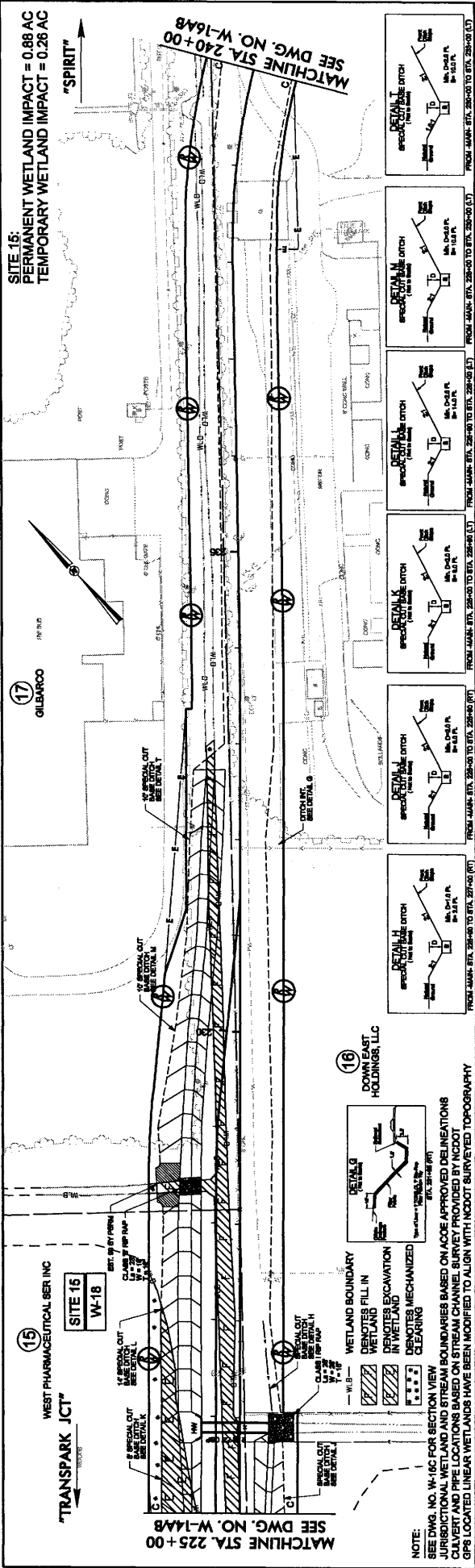
PROJECT NUMBER: 44875

DRAWING NO: W-15A

SCALE: HORIZONTAL: 1"=50'

VERTICAL: 1"=20'

SHEET NO.



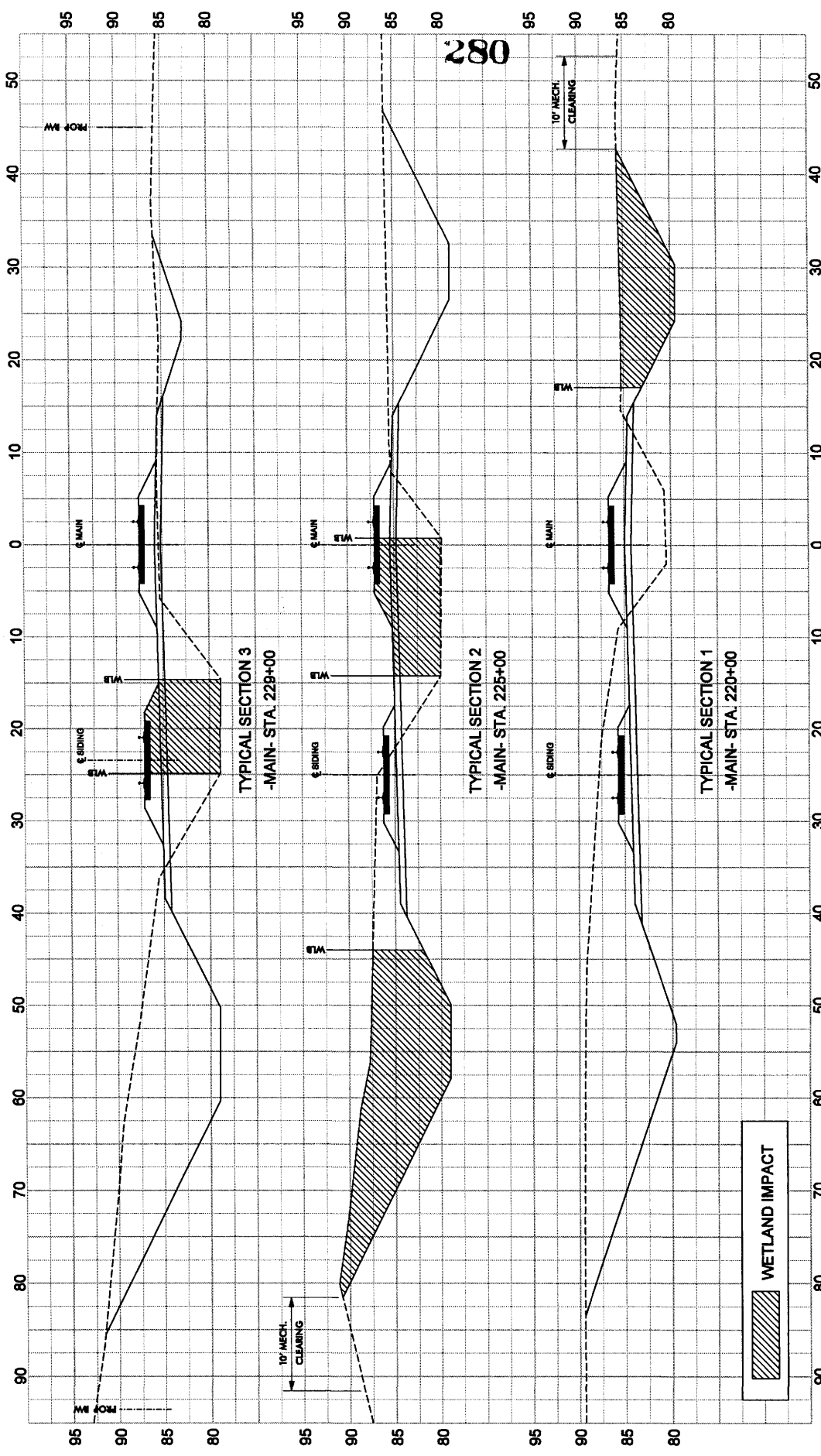
**PROJECT NUMBER:** 44875  
**DRAWING NO.:** W-15B  
**SCALE:** HORIZONTAL 1"=100'  
**VERTICAL:** 1"=20'

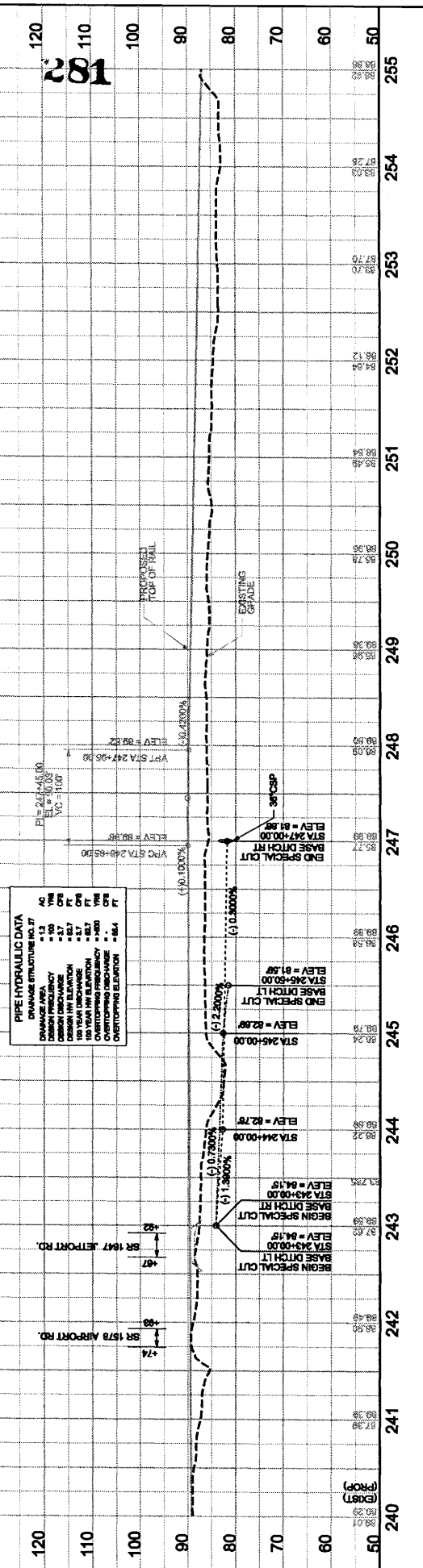
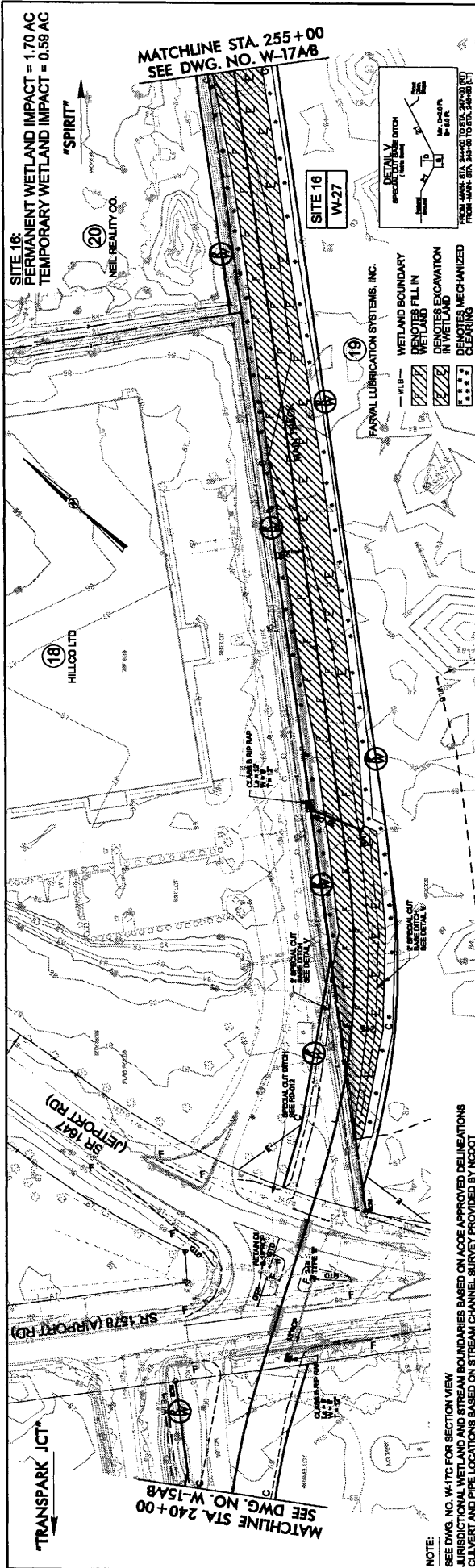
**SITE 15**  
**KINSTON, NC**

**GTP** Rail Access  
**NC DEPARTMENT OF TRANSPORTATION**  
**RAIL DIVISION**

**HNTB** HNTB NORTH CAROLINA, P.O. BOX 812, 812 WEST 8TH STREET, RIFLE, CO 81650

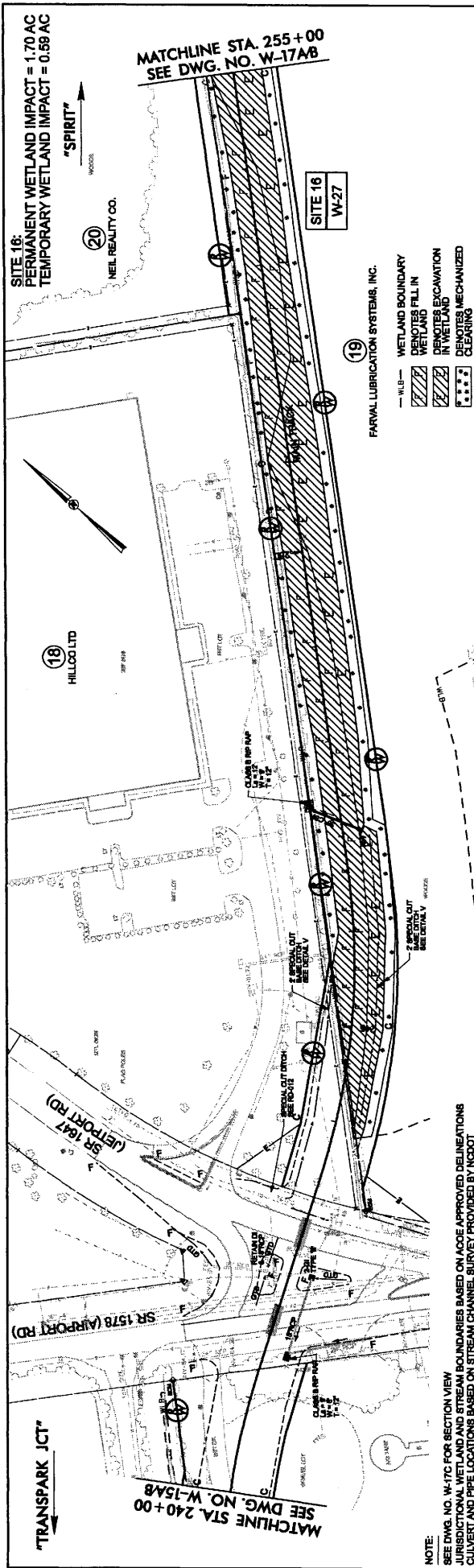
**DESIGNED BY:** JAB  
**CHECKED BY:** PER  
**DATE:** JUNE 17, 2009





PROJECT NUMBER: 44875	DATE: 06/17/2009														
DRAWING NO: W-16A	SCALE: HORIZONTAL 1"=100'														
VERTICAL 1"=20'	SHEET NO:														
SITE 16 KINSTON, NC															
  HNTB NORTH CAROLINA, P.O. BOX 800 1000 W. WILSON ST., SUITE 200, RALEIGH, NC 27601 TEL: 919.875.8100 FAX: 919.875.8101															
<table border="1"> <thead> <tr> <th>REV. NO.</th> <th>DATE</th> <th>BY</th> <th>APP. BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV. NO.	DATE	BY	APP. BY	DESCRIPTION						<table border="1"> <thead> <tr> <th>DESIGNED BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	DESIGNED BY	DATE		
REV. NO.	DATE	BY	APP. BY	DESCRIPTION											
DESIGNED BY	DATE														

NOTE:  
SEE DWG. NO. W-17C FOR SECTION VIEW  
JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCDOT



NOTE:  
 SEE DWG. NO. W-7C FOR SECTION VIEW  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCDOT

MATCHLINE STA. 240+00  
 SEE DWG. NO. W-15A8

MATCHLINE STA. 255+00  
 SEE DWG. NO. W-17A8

SITE 16  
 W-27

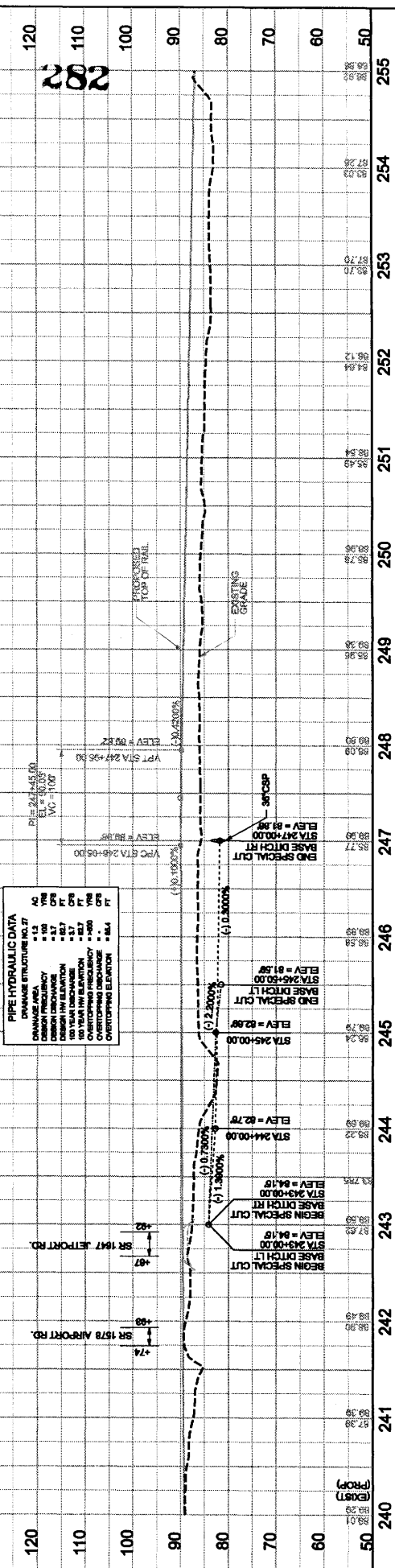
19  
 FARVAL LUBRICATION SYSTEMS, INC.

- HILD — WETLAND BOUNDARY
- ▨ WETLAND TYPE
- ▨ WETLAND FILL IN
- ▨ DEMONSTRATION EXCAVATION
- ▨ DEMONSTRATION EXCAVATION IN WETLAND
- ▨ CLEARING

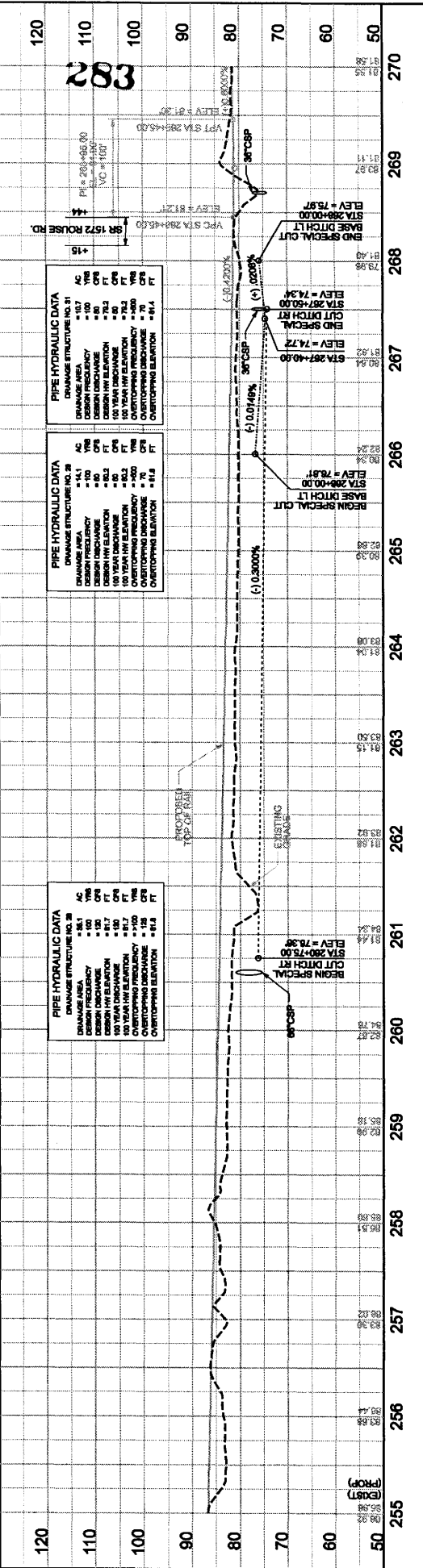
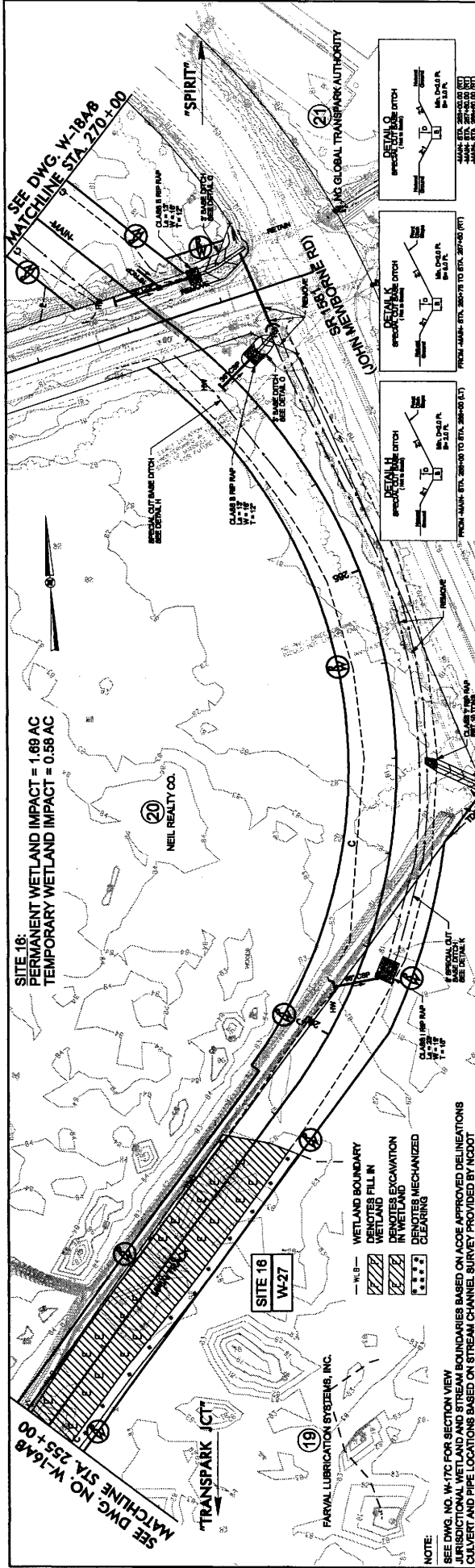
**PIPE HYDRAULIC DATA**

PIPE STRUCTURE NO. 27

DRAINAGE AREA	AC
DESIGN FLOW	CFS
DESIGN FLOW ELEVATION	FT
DESIGN FLOW VELOCITY	FT/SEC
100 YEAR DISCHARGE	CFS
100 YEAR DISCHARGE ELEVATION	FT
100 YEAR DISCHARGE VELOCITY	FT/SEC
OVERTOPPING ELEVATION	FT



REV. NO.	DATE	BY	APP. BY	DESCRIPTION	<table border="1"> <tr><td>DRAWN BY</td><td>JAB</td></tr> <tr><td>CHECKED BY</td><td>PER</td></tr> <tr><td>DATE</td><td>JUN 17, 2008</td></tr> </table>	DRAWN BY	JAB	CHECKED BY	PER	DATE	JUN 17, 2008
DRAWN BY	JAB										
CHECKED BY	PER										
DATE	JUN 17, 2008										
<p>NC DEPARTMENT OF TRANSPORTATION  <b>RAIL DIVISION</b></p> <p><b>HNTB</b> HNTB NORTH CAROLINA, P.C.        1100 S. GARDNER STREET, SUITE 200        WILMINGTON, NC 28403        TEL: 910.343.8800 FAX: 910.343.8801</p>											
<p><b>GTP</b> Rail Access  <b>NCGTP RAIL ACCESS</b>  <b>STREAM &amp; WETLAND IMPACTS</b></p>											
<p>PROJECT NUMBER: 44875        DRAWING NO: W-16B        SCALE: HORIZONTAL 1"=40' VERTICAL 1"=20'        SHEET NO:        SITE 16        KINSTON, NC</p>											



REV. NO.	DATE	BY	APP. BY	DESCRIPTION

DESIGNED BY	JAB
DRAWN BY	PER
CHECKED BY	JJK
DATE	JUNE 17, 2009

PROJECT NUMBER:	4875
DRAWING NO.:	W-17A
SCALE:	HORIZONTAL 1"=50'
	VERTICAL 1"=20'
SHEET NO.:	

NC DEPARTMENT OF TRANSPORTATION  
RAIL DIVISION

HNTB  
HNTB NORTH CAROLINA, P.O. BOX 800  
DESIGN CENTER, RAILROAD STATION, 400

GTP Rail Access

NCGTP RAIL ACCESS  
STREAM & WETLAND IMPACTS

SITE 16  
KINSTON, NC

SITE 16:  
PERMANENT WETLAND IMPACT = 1.69 AC  
TEMPORARY WETLAND IMPACT = 0.56 AC

NOTE:  
SEE DWG. NO. W-7C FOR SECTION VIEW  
JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY HCOOT

- W-6 - WETLAND BOUNDARY
- W-7 - DENOTES FILL IN
- W-8 - DENOTES WETLAND EXCAVATION
- W-9 - DENOTES MECHANIZED CLEARING

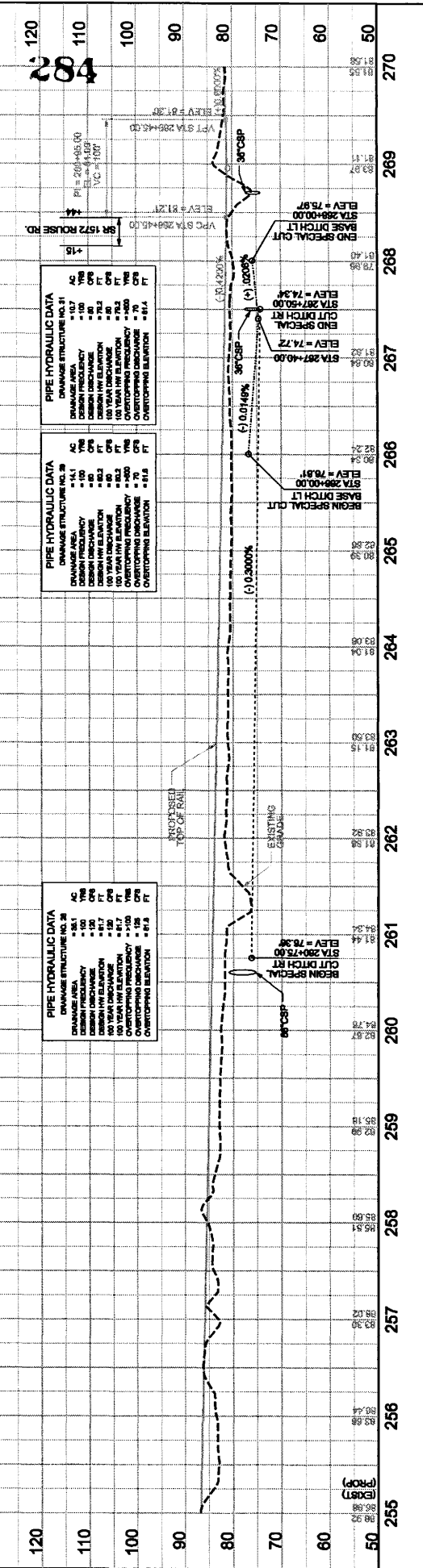
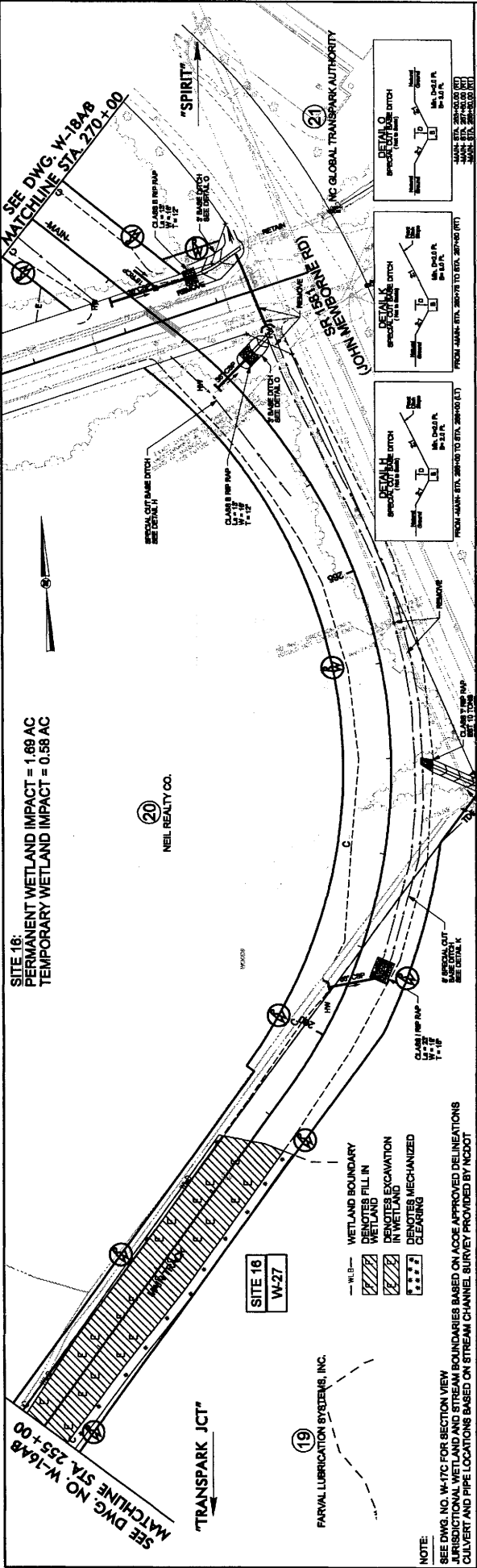
SITE 16  
W-27

FARVAL LUBRICATION SYSTEMS, INC.

SEE DWG. NO. W-16A8  
MATCHLINE STA. 255+00

SEE DWG. W-16A8  
MATCHLINE STA. 270+00

SITE 16:  
 PERMANENT WETLAND IMPACT = 1.89 AC  
 TEMPORARY WETLAND IMPACT = 0.56 AC



PROJECT NO.	44875
DRAWING NO.	W-178
SCALE	HORIZONTAL 1"=40' VERTICAL 1"=20'
SHEET NO.	

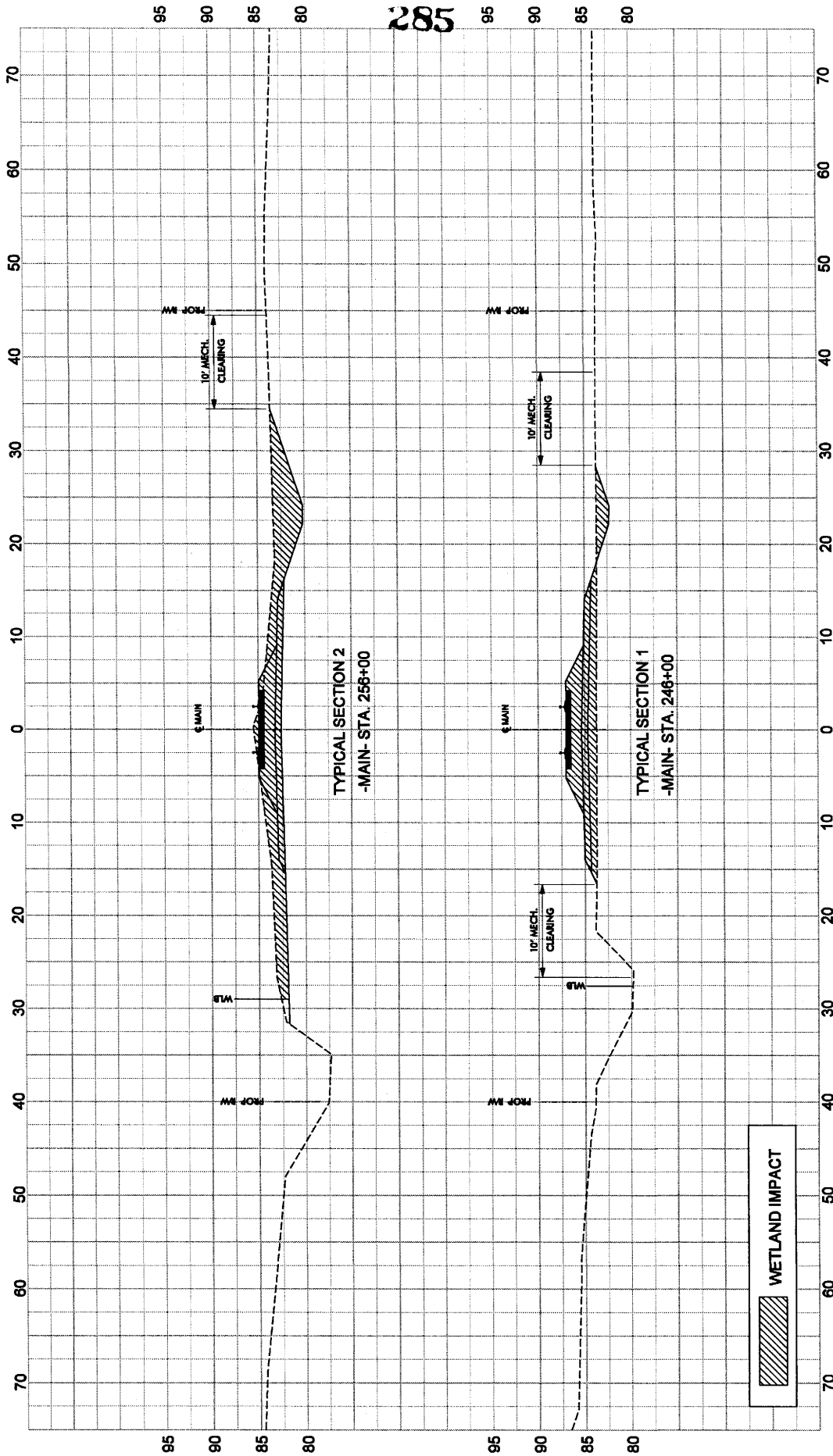
 GTP Rail Access NC DEPARTMENT OF TRANSPORTATION RAIL DIVISION	HNTB HNTB NORTH CAROLINA, P.O. BOX 11401, RALEIGH, NC 27611 TEL: 919-875-8100 FAX: 919-875-8101 www.hntb.com
---	---

DESIGNED BY: JAB CHECKED BY: PER DATE: JUN 17, 2008	DESCRIPTION:
---	--------------

PROJECT NAME: 44875 DRAWING NO.: W-178 SCALE: HORIZONTAL 1"=40' VERTICAL 1"=20' SHEET NO.: SITE 16 KINSTON, NC
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PROJECT NUMBER	44875
DRAWING NO.	WI-17C
SCALE	1" = 10'
SHEET NO.	

**NGTTP RAIL ACCESS  
STREAM & WETLAND IMPACTS  
TYPICAL SECTION  
SITE 16  
KINSTON, NC**



REGISTERED PROFESSIONAL ENGINEER  
STATE OF NORTH CAROLINA  
No. 14053

**RAIL DIVISION**

**HNTB**

HNTB NORTH CAROLINA, P.C.  
10000 Research Triangle Park  
Raleigh, North Carolina 27609  
919.875.8000

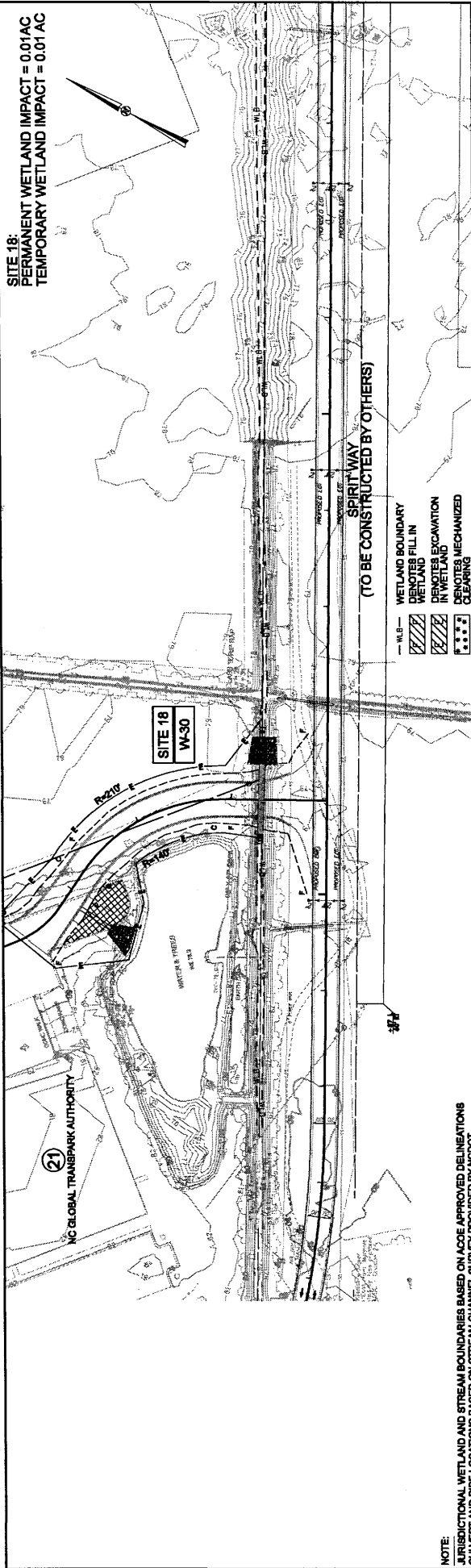
DESIGNED BY	JAB
DRAWN BY	CPV
CHECKED BY	JJK
DATE	JUNE 17, 2009

REV. NO.	DATE	BY	APP. BY	DESCRIPTION









SITE 18:  
 PERMANENT WETLAND IMPACT = 0.01 AC  
 TEMPORARY WETLAND IMPACT = 0.01 AC

SPIRIT WAY  
 (TO BE CONSTRUCTED BY OTHERS)

- W.B. — WETLAND BOUNDARY
- ▨ DENOTES FILL IN WETLAND
- ▩ DENOTES EXCAVATION IN WETLAND
- ▧ DENOTES MECHANIZED CLEARING

SITE 18  
 W-30

21  
 NC GLOBAL TRANSPORT AUTHORITY

NOTE:  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACCE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCDOT

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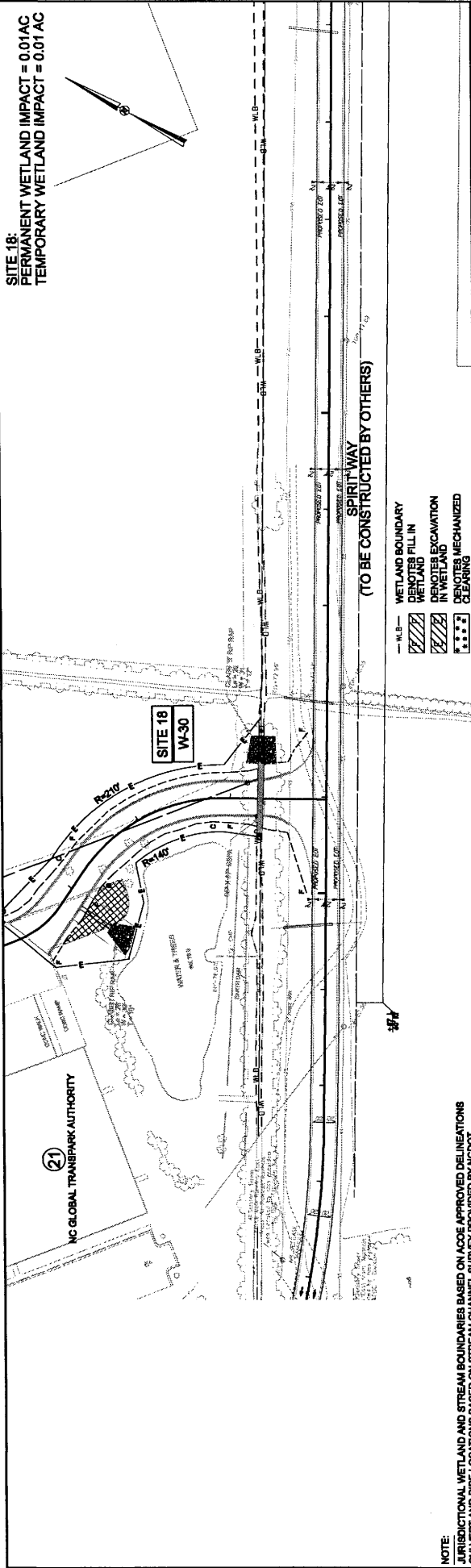
(TEXT)

REV. NO.	DATE	BY	APP. BY	DESCRIPTION	DESIGNED BY	CHECKED BY	DATE
					JAB	PER	JUNE 17, 2008
						JKK	

 <b>HNTB</b> HNTB NORTH CAROLINA, P.O. BOX 880 2415 S. ROSS ST., RALEIGH, NORTH CAROLINA 27608		 NC DEPARTMENT OF TRANSPORTATION <b>RAIL DIVISION</b>		 <b>GTP</b> Rail Access		<b>NCGTP RAIL ACCESS</b> STREAM & WETLAND IMPACTS SITE 18 KINSTON, NC		PROJECT NUMBER: 44875 DRAWING NO: W-19A SCALE: HORIZONTAL 1"=100' VERTICAL 1"=20' SHEET NO:
---	--	---	--	----------------------------	--	--	--	---

SITE 18:  
 PERMANENT WETLAND IMPACT = 0.01 AC  
 TEMPORARY WETLAND IMPACT = 0.01 AC



(TO BE CONSTRUCTED BY OTHERS)

- W.B. - WETLAND BOUNDARY
- [Hatched Box] DENOTES FILL IN WETLAND
- [Cross-hatched Box] DENOTES EXCAVATION IN WETLAND
- [Dotted Box] DENOTES MECHANIZED CLEARING

NOTE:  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCGOT

289

(PROF)

REV. NO.	DATE	BY	APP. BY	DESCRIPTION

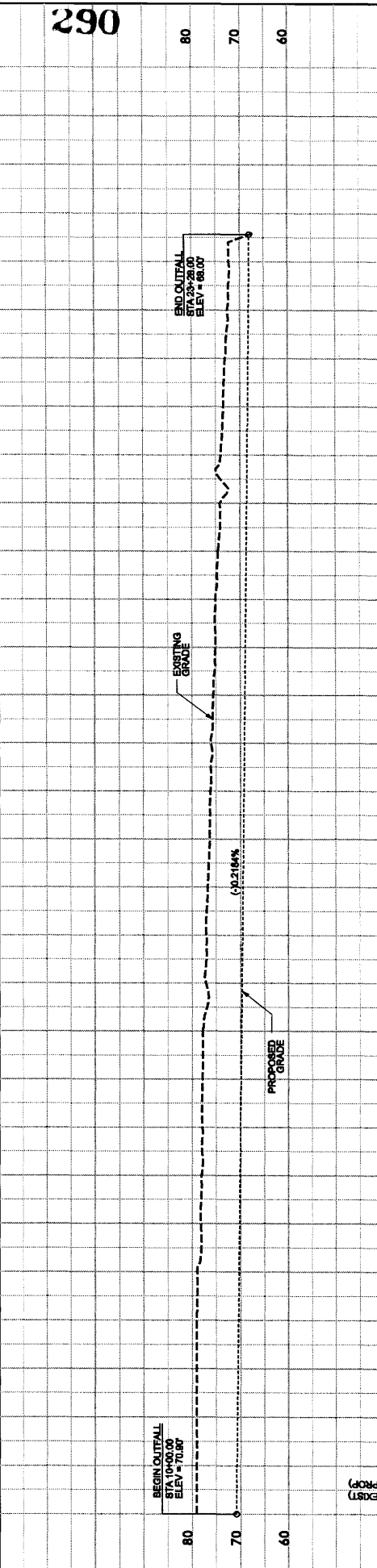
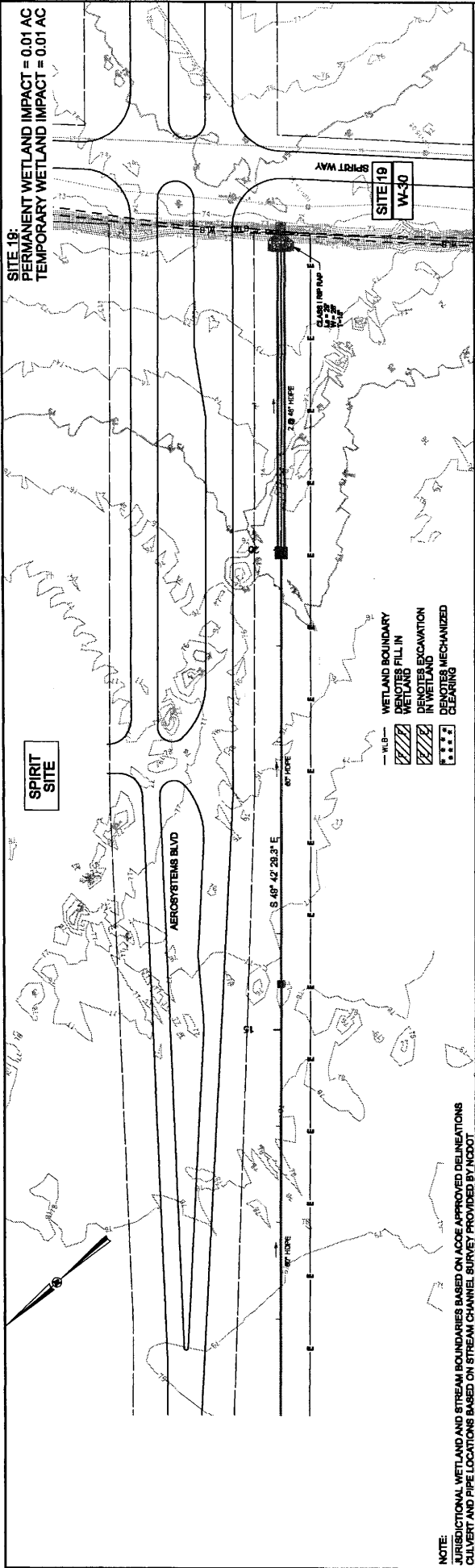
**HNTB**
  
HNTB NORTH CAROLINA, P.O. BOX 800  
 1000 EAST 10TH STREET, FAYETTEVILLE, NORTH CAROLINA 27803

N.C. DEPARTMENT OF TRANSPORTATION  
**RAIL DIVISION**

**GTP** Rail Access

**NCGTP RAIL ACCESS**  
 STREAM & WETLAND IMPACTS  
 SITE 18  
 KINSTON, NC

PROJECT NUMBER	44875
DRAWING NO.	W-198
SCALE	HORIZONTAL: 1"=100' VERTICAL: 1"=20'
SHEET NO.	



REV. NO.	DATE	BY	APP. BY	DESCRIPTION

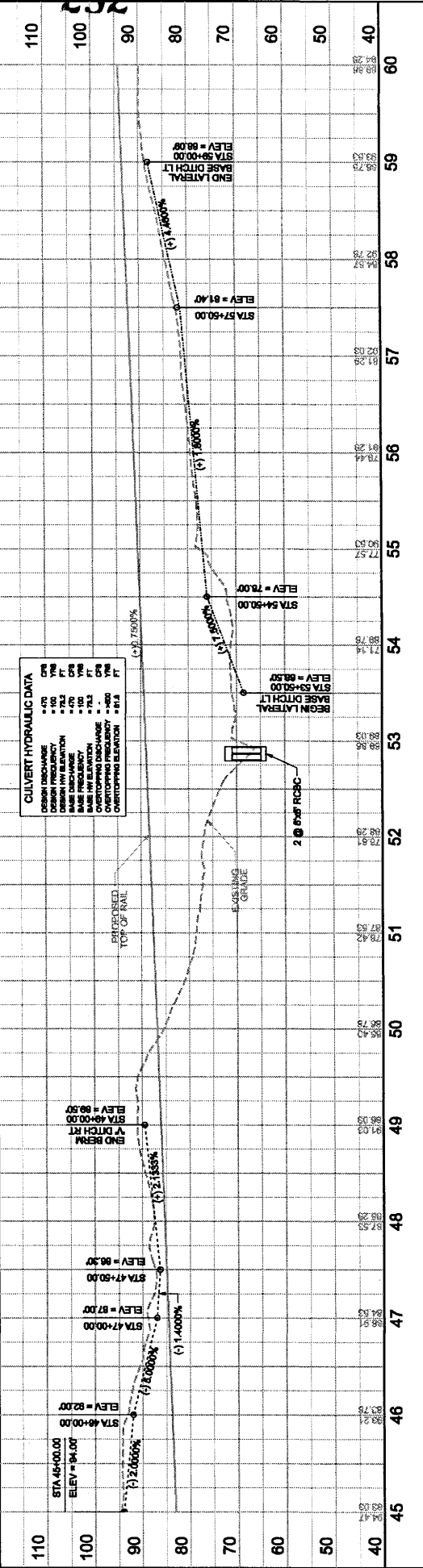
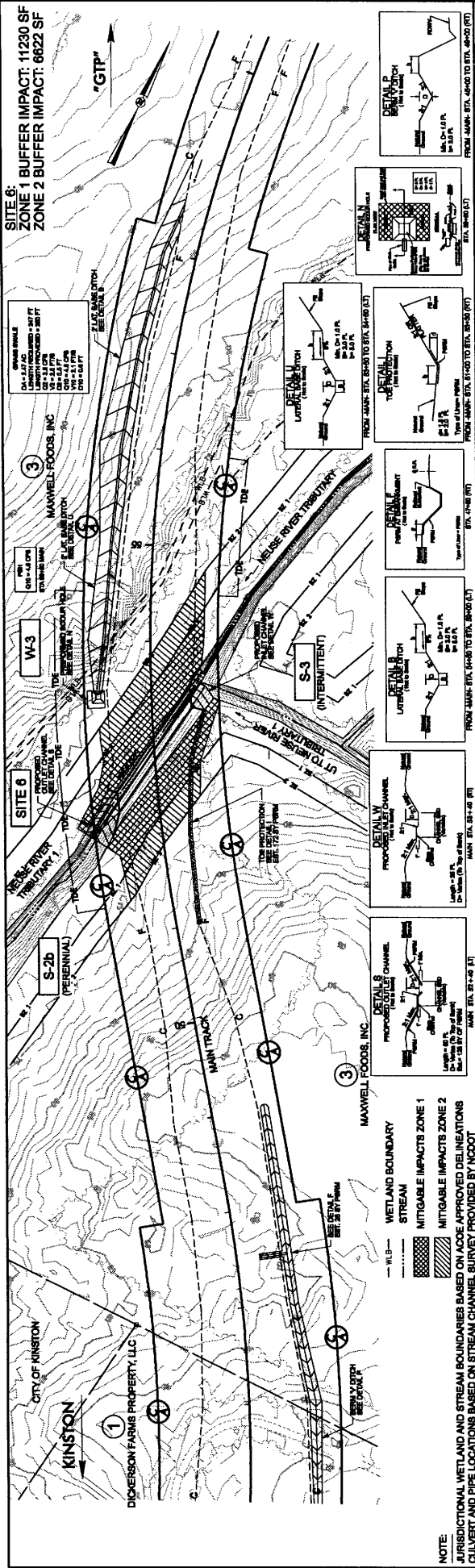
  

DESIGNED BY: JAB	PROJECT NUMBER: 44875
DRAWN BY: PER	DRAWING NO: W-20A
CHECKED BY: JCK	SCALE: HORIZONTAL 1"=100'
DATE: JUNE 17, 2008	VERTICAL 1"=20'
	SHEET NO.:

 HNTB NORTH CAROLINA, P.C. 801 W. Hargett Street Raleigh, NC 27601 TEL: 919.781.8000	 RAIL DIVISION <small>STATE OF NORTH CAROLINA          TRANSPORTATION</small>	 GTP Rail Access NCGTP RAIL ACCESS STREAM & WETLAND IMPACTS SITE 19 KINSTON, NC
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**CULVERT HYDRAULIC DATA**

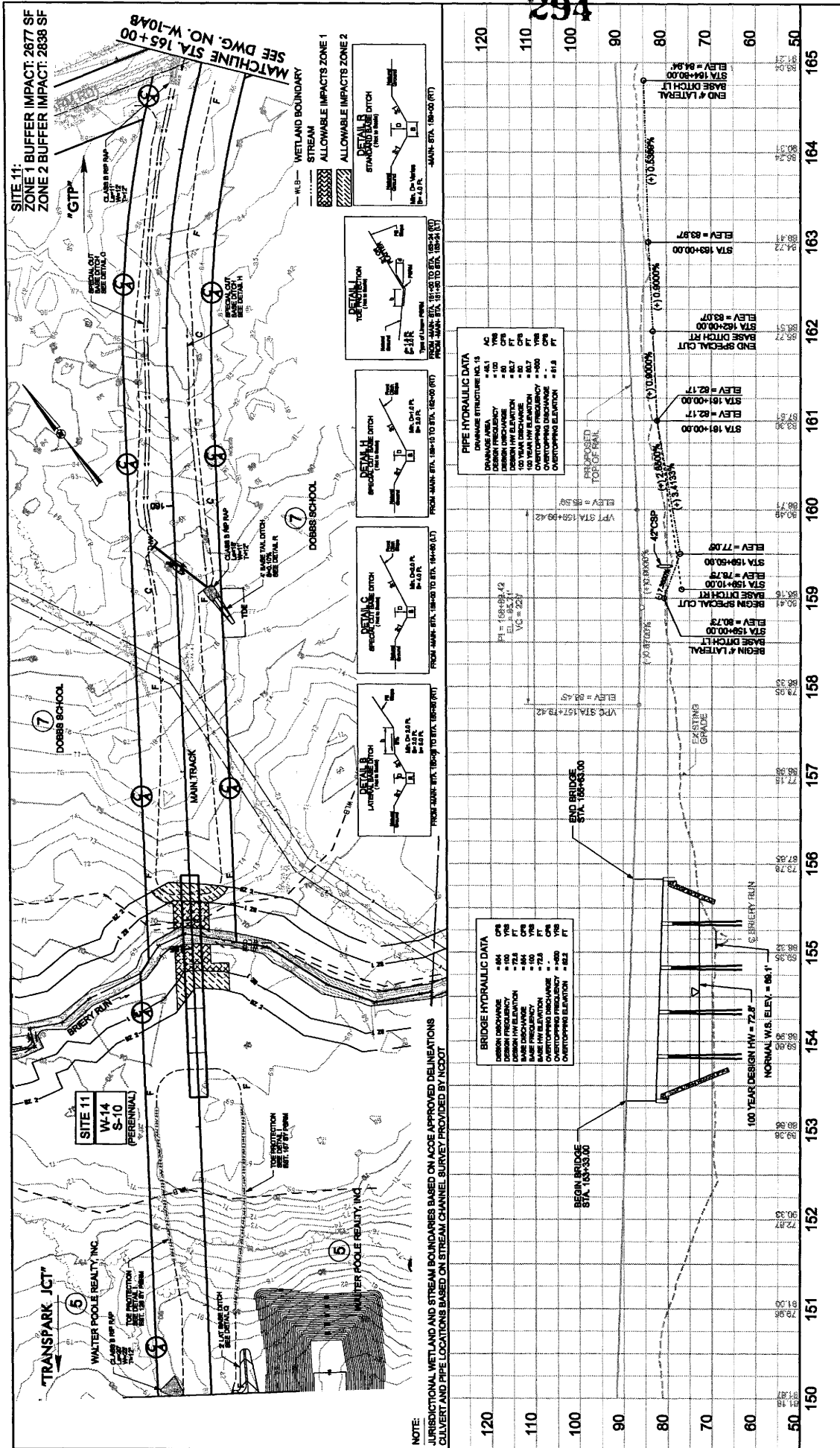
DESIGN DISCHARGE	CFR
DESIGN FLOW ELEVATION	FT
BASE DISCHARGE	CFR
BASE FLOW ELEVATION	FT
OVERTOPPING DISCHARGE	CFR
OVERTOPPING FLOW ELEVATION	FT
OVERTOPPING VELOCITY	FEET PER SECOND
OVERTOPPING LENGTH	FEET

**NOTE:**  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACOE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY NCOOT

PROJECT NUMBER:	44875
DRAWING NO.:	B-01A
SCALE:	HORIZONTAL 1"=100' VERTICAL 1"=20'
<b>SITE 6</b> KINSTON, NC	
<b>GTP</b> Rail Access	
<b>NC DEPARTMENT OF TRANSPORTATION</b> <b>RAIL DIVISION</b>	
<b>HNTB</b> HNTB NORTH CAROLINA, INC. 6155 8th St. Raleigh, North Carolina 27608	
DESIGNED BY:	JAB
DRAWN BY:	PER
CHECKED BY:	JJK
DATE:	JUNE 17, 2009

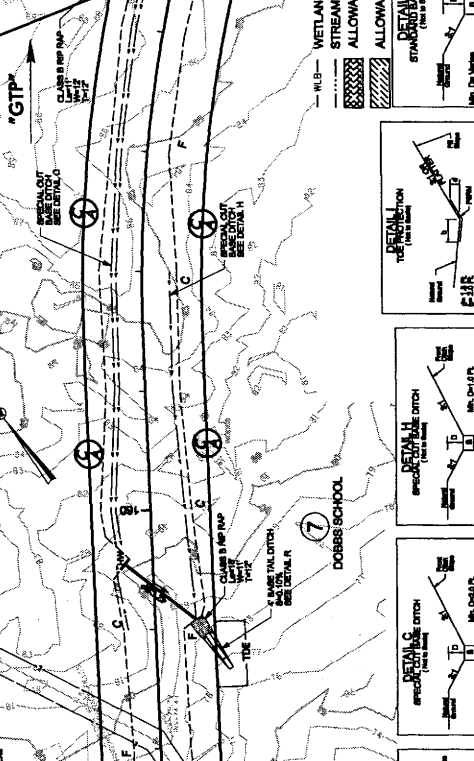






**SITE 11:**  
**ZONE 1 BUFFER IMPACT: 2677 SF**  
**ZONE 2 BUFFER IMPACT: 2838 SF**

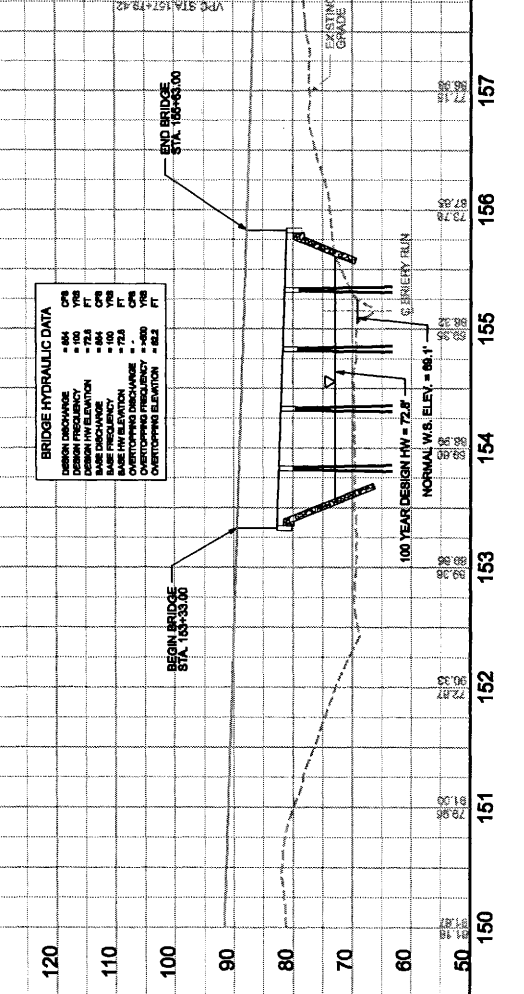
SEE DWG. NO. W-1048  
**MATCHLINE STA. 165+00**



BRIDGE HYDRAULIC DATA	
DESIGN DISCHARGE	= 84 CFS
DESIGN FREQ.	= 10 YRS
DESIGN HW ELEVATION	= 72.5 FT.
BASE HW ELEVATION	= 70.0 FT.
DESIGN OVERTOPPING	= 2.5 FT.
DESIGN OVERFLOW	= 2.5 FT.
DESIGN OVERFLOW ELEVATION	= 75.0 FT.

PIPE HYDRAULIC DATA	
DESIGN DISCHARGE	= 100 CFS
DESIGN FREQ.	= 10 YRS
DESIGN HW ELEVATION	= 80.0 FT.
BASE HW ELEVATION	= 77.5 FT.
DESIGN OVERTOPPING	= 2.5 FT.
DESIGN OVERFLOW	= 2.5 FT.
DESIGN OVERFLOW ELEVATION	= 82.5 FT.



**NOTE:**  
 JURISDICTIONAL WETLAND AND STREAM BOUNDARIES BASED ON ACCE APPROVED DELINEATIONS  
 CULVERT AND PIPE LOCATIONS BASED ON STREAM CHANNEL SURVEY PROVIDED BY HCCDT

REV. NO.		DATE		BY		APP. BY		DESCRIPTION	
					<b>NC DEPARTMENT OF TRANSPORTATION</b> <b>RAIL DIVISION</b>				
					HNTB NEW NORTH CAROLINA, 61588.000 10100 N. CENTRAL EXPWAY, SUITE 200 RALEIGH, NORTH CAROLINA 27608				
<b>NCGTP RAIL ACCESS</b> <b>BUFFER IMPACTS</b> <b>SITE 11</b> KINSTON, NC					PROJECT NUMBER: 44875 DRAWING NO: B-02A SCALE: HORIZONTAL 1"=80' VERTICAL 1"=20' SHEET NO:				
DESIGNED BY: JAB DRAWN BY: PER CHECKED BY: JKK DATE: JUNE 17, 2009									





