



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE  
GOVERNOR

EUGENE A. CONTI, JR.  
SECRETARY

March 5, 2010

USACE Wilmington Regulatory Field Office  
69 Darlington Avenue  
Wilmington, NC 28402-1890

ATTN: Ms. Kim Garvey  
NCDOT Coordinator

Dear Madam:

Subject: **Revised Application for Section 404 Nationwide Permits 23, 33, and 13 and Section 401 Water Quality Certifications 3701 and 3688** for improvements to US 220 (Future I 73/74) from south of NC 134-US 220 Business to north of SR 1462 (Park Drive Extension) in Randolph County, Federal Aid Project Number IMS-73 (8), State Project No. 8.1572301, Division 8, T.I.P No. I-4407.

Reference: NCDOT Permit Application dated September 29, 2009  
NCDWQ WQC issued November 23, 2009 (DWQ Project Number 091046)  
USACE NW 23/13 permit issued December 15, 2009 (SAW-2009-01941)

The North Carolina Department of Transportation (NCDOT) has received permits for the proposed upgrade of the US 220 (Future I-73/74) corridor to interstate standards in order to improve traffic flow and safety, as well as to be consistent with the rest of the Congressionally designated corridor. However, as a result of further field investigations, an additional wetland and section of stream were mapped within the project area.

At this time NCDOT requests a modification of the WQC issued by NCDWQ on November 23, 2009 and the NW 23/13 permit issued on December 15, 2009. Please see the enclosed copies of the revised Pre-Construction Notification (PCN) (changes to wetland and stream impacts are indicated in bold) and the revised sheet 34 of the roadway plans, revised permit drawings, and the revised impact summary table for the above-referenced project.

MAILING ADDRESS:  
NC DEPARTMENT OF TRANSPORTATION  
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS  
NATURAL ENVIRONMENT UNIT  
1598 MAIL SERVICE CENTER  
RALEIGH NC 27699-1598

TELEPHONE: 919-431-2000  
FAX: 919-431-2001  
WEBSITE: [WWW.NCDOT.ORG](http://WWW.NCDOT.ORG)

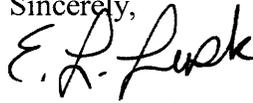
LOCATION:  
4701 Atlantic Ave.,  
Suite 116  
Raleigh, NC 27604

A revised EEP confirmation letter is also included to reflect mitigation requirements indicated for the Section 404 permit (1:1 for 14 linear feet of impacts at site 2; no mitigation required for resetting the pipe at Site 2; no mitigation required for impacts at Site 3). As discussed in email communications (dated January 25, 2009) with USACE representative, Kim Garvey, 1:1 mitigation is proposed for the new stream impacts at Site 4.

This project calls for a letting date of June 15, 2010 and a review date of April 27, 2010. However, the let date may advance as additional funds become available.

A copy of this permit application will be posted on the NCDOT Website at: <http://www.ncdot.org/doh/preconstruct/pe/>. If you have any questions or need additional information, please call Erica McLamb at (919) 431-1595.

Sincerely,



Gregory J. Thorpe, Ph.D.  
Environmental Management Director, PDEA

w/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics  
Mr. Mark Staley, Roadside Environmental  
Mr. Greg Perfetti, P.E., Structure Design  
Mr. Victor Barbour, P.E., Project Services Unit  
Mr. Tim Johnson, P.E., Division 8 Engineer  
Mr. Art King, Division 8 Environmental Officer  
Mr. Jay Bennett, P.E., Roadway Design  
Mr. Majed Alghandour, P. E., Programming and TIP  
Mr. Art McMillan, P.E., Highway Design  
Mr. Scott McLendon, USACE, Wilmington  
Mr. Travis Wilson, NCWRC  
Mr. Gary Jordan, USFWS  
Ms. Karen Reynolds, PDEA  
Ms. Beth Harmon, EEP  
Mr. Phillip Ayscue, NCDOT External Audit Branch



Office Use Only:  
 Corps action ID no. \_\_\_\_\_  
 DWQ project no. \_\_\_\_\_  
 Form Version 1.3 Dec 10 2008

## Pre-Construction Notification (PCN) Form

### A. Applicant Information

#### 1. Processing

1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23, 33, 13 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <span style="margin-left: 100px;"><input type="checkbox"/> Non-404 Jurisdictional General Permit</span> <input type="checkbox"/> 401 Water Quality Certification – Express <span style="margin-left: 100px;"><input type="checkbox"/> Riparian Buffer Authorization</span>		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

#### 2. Project Information

2a. Name of project:	Improvements to US 220 (Future I 73/74) from south of NC 134-US 220 Business to north of SR 1462 (Park Drive Extension) in Asheboro, NC.
2b. County:	Randolph
2c. Nearest municipality / town:	Asheboro
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	I-4407

#### 3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	4701 Atlantic Avenue, Suite 116
3e. City, state, zip:	Raleigh, NC 27604
3f. Telephone no.:	(919) 431-1595
3g. Fax no.:	(919) 431-2002
3h. Email address:	emclamb@ncdot.gov

<b>4. Applicant Information (if different from owner)</b>	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
<b>5. Agent/Consultant Information (if applicable)</b>	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

<b>B. Project Information and Prior Project History</b>	
<b>1. Property Identification</b>	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.8822 (DD.DDDDDD)                      Longitude: - 79.8205 (-DD.DDDDDD)
1c. Property size:	212 acres
<b>2. Surface Waters</b>	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	UT's to Big Branch and Cedar Fork Creek
2b. Water Quality Classification of nearest receiving water:	C
2c. River basin:	Cape Fear

<b>3. Project Description</b>	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing land use in the project area consists of forested land (mixed deciduous-coniferous forest land) with some disturbed areas (maintained roadsides and agricultural fields). Land use in the project vicinity is comprised of forested land, disturbed areas, and residential development.	
3b. List the total estimated acreage of all existing wetlands on the property: <0.01 acres	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 2048 linear feet	
3d. Explain the purpose of the proposed project: The purpose of the proposed project is to upgrade the US 220 (future I73/74) corridor to interstate standards in order to improve traffic flow and safety, as well as to be consistent with the rest of the Congressionally designated/NCDOT Strategic Highway Corridor.	
3e. Describe the overall project in detail, including the type of equipment to be used: Improvements include widening of inside and outside shoulders, pipe extensions, removal of some curb and gutter and installation of guardrail, per interstate standards. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
<b>4. Jurisdictional Determinations</b>	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: Wetland and stream delineations were completed in September 2004 by HDR Inc., biologists. 3 wetlands and 13 streams were identified in the project study area. These delineations have not been verified by USACE. A jurisdictional determination request, dated April 7, 2005, was provided to Richard Spencer. The request packet included the relevant wetland data forms. Richard Spencer declined to visit the site or verify wetlands and streams until the permit application was submitted. No written JD was provided.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Mr. John Jamison	Agency/Consultant Company: HDR, Inc. Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.	
<b>5. Project History</b>	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions. WQC 3701 and 3688 and NW 23/13	
<b>6. Future Project Plans</b>	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, explain.	

### C. Proposed Impacts Inventory

#### 1. Impacts Summary

1a. Which sections were completed below for your project (check all that apply):

- Wetlands                       Streams - tributaries                       Buffers  
 Open Waters                       Pond Construction

#### 2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	<b>Mechanized clearing</b>	<b>Riparian</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<b>0.003</b>
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	
<b>2g. Total wetland impacts</b>					<b>0.003</b>

2h. Comments: **Wetland impacts at Site 4 are a result of mechanized clearing necessary to allow for access necessary for construction of the slope adjacent to this location. Mitigation is not proposed for impacts to this wetland since impacts are minimal and will not result in diminished water quality downstream of the area.**

#### 3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	UT to Big Branch Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	1.5	153 (perm)
Site 2 <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T	Fill	UT to Big Branch Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	2.5	18 (perm) 11 (temp)
Site 3 <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T	Fill	UT to Cedar Fork Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	2	11 (perm) 30 (temp)
Site 4 <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T	<b>Fill/dewatering</b>	<b>UT to Haskett</b>	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<b>2-3</b>	<b>81 (perm) 37 (temp)</b>
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
<b>3h. Total stream and tributary impacts</b>						<b>263 (perm) 78 (temp)</b>

4. 3i. Comments: Temporary impacts at sites 1, 2, 3 and 4 are due to possible dewatering of the channels in these locations necessary for construction. Permanent impacts at these sites are due to extensions of culverts at these locations necessary due to the widening of the road. Mitigation is not proposed for impacts at site 3, due to low stream quality (per site visit from Kim Garvey on 12/10/09). Mitigation of 1:1 is proposed for 14 linear feet of impacts at Site 2 because it is rip-rap and some function besides moving water will still remain (per Kim Garvey in email on 12/21/09). No mitigation is proposed for impacts associated with resetting the pipe at Site 2. 1:1 Mitigation is proposed for 74 linear feet of impacts at Site 4 due to the low quality of the stream (per Kim Garvey in email on 01/25/10). Mitigation is not proposed for 7 linear feet of impacts at Site 4 which has been lined with concrete prior to construction of the proposed project. 2:1 mitigation is proposed for impacts at Site 1 (per Kim Garvey email on 12/21/09)

**5. Open Water Impacts**

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
<b>4f. Total open water impacts</b>				0 Permanent 0 Temporary

4g. Comments:

**6. Pond or Lake Construction**

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
<b>5f. Total</b>								

5g. Comments:

5h. Is a dam high hazard permit required?	<input type="checkbox"/> Yes <input type="checkbox"/> No      If yes, permit ID no:
5i. Expected pond surface area (acres):	
5j. Size of pond watershed (acres):	
5k. Method of construction:	

**6. Buffer Impacts (for DWQ)**

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?		<input type="checkbox"/> Neuse <input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other: <input type="checkbox"/> Catawba <input type="checkbox"/> Randleman			
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>6h. Total buffer impacts</b>					
6i. Comments:					

<b>D. Impact Justification and Mitigation</b>		
<b>1. Avoidance and Minimization</b>		
<p>1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project.</p> <p>Filter fabric will be utilized to allow for the complete removal of temporary fill.</p> <p>Hydraulic design minimizes and avoids impacts to streams by using existing outlets to the maximum extent.</p> <p>The roadway typical section will match the existing roadway section, which consists of partially grassed shoulders, wooded or grassed fill slopes and grass lined roadway ditches.</p> <p>Utilization of 2:1 fill slopes.</p> <p>Rip rap was used where warranted to reduce erosion at pipe outlets and within roadway ditches.</p> <p>The three sites where impacts occur are a result of safety improvements that will aid in better highway drainage. The use of expressway gutter will aid in stabilizing fill slopes.</p> <p>Project activities primarily occur within the existing roadway footprint and match the existing roadway grade, thereby avoiding impacts to wetlands and minimizing impacts to jurisdictional streams.</p> <p>Preformed scour holes will be utilized to reduce erosion and sedimentation.</p>		
<p>1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.</p> <p>NCDOT will implement "Best Management Practices for Construction and Maintenance Activities". Appropriate sediment and erosion control measures will be limited, and stream banks will be immediately revegetated following completion of grading activities. NCDOT BMP's for the Protection of Surface Waters will be strictly enforced during construction of this project.</p>		
<b>2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State</b>		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2b. If yes, mitigation is required by (check all that apply):	<input checked="" type="checkbox"/> DWQ <input checked="" type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input checked="" type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
<b>3. Complete if Using a Mitigation Bank</b>		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
<b>4. Complete if Making a Payment to In-lieu Fee Program</b>		
4a. Approval letter from in-lieu fee program is attached.	<input checked="" type="checkbox"/> Yes	
4b. Stream mitigation requested:	<b>394 linear feet</b>	
4c. If using stream mitigation, stream temperature:	<input checked="" type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	0 square feet	
4e. Riparian wetland mitigation requested:	0 acres	
4f. Non-riparian wetland mitigation requested:	0 acres	
4g. Coastal (tidal) wetland mitigation requested:	0 acres	

4h. Comments:

**5. Complete if Using a Permittee Responsible Mitigation Plan**

5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.

**6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ**

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?  Yes  No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.

Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
<b>6f. Total buffer mitigation required:</b>				

6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).

6h. Comments:

**E. Stormwater Management and Diffuse Flow Plan (required by DWQ)**

**1. Diffuse Flow Plan**

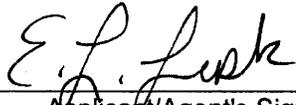
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?  Yes  No

1b. If yes, then is a diffuse flow plan included? If no, explain why.  Yes  No

Comments:

<b>2. Stormwater Management Plan</b>	
2a. What is the overall percent imperviousness of this project?	n/a %
2b. Does this project require a Stormwater Management Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See permit drawings.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input type="checkbox"/> DWQ 401 Unit
<b>3. Certified Local Government Stormwater Review</b>	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>4. DWQ Stormwater Program Review</b>	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5. DWQ 401 Unit Stormwater Review</b>	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b. Have all of the 401 Unit submittal requirements been met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>F. Supplementary Information</b>	
<b>1. Environmental Documentation (DWQ Requirement)</b>	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)  Comments: CE approved on 04/04/05	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>2. Violations (DWQ Requirement)</b>	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
<b>3. Cumulative Impacts (DWQ Requirement)</b>	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description.  Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
<b>4. Sewage Disposal (DWQ Requirement)</b>	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility.  not applicable	
<b>5. Endangered Species and Designated Critical Habitat (Corps Requirement)</b>	
5a. Will this project occur in or near an area with federally protected species or habitat?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input checked="" type="checkbox"/> Raleigh <input type="checkbox"/> Asheville
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?  Based on NCDOT field surveys, NHP database, and USFWS Website for Randolph County, it has been determined that the proposed project will have no effect on Endangered Species or Designated Critical Habitat.  Additional surveys for Schweinitz's sunflower on September 8, 2008. No specimens were observed during the 6-man hour survey. Marginal habitat exists on most of corridor along roadside shoulder/woodland edges. Much of potential habitat is apparently treated with herbicides and thus has little to no plant growth. No habitat in median as all of this area is grassed and mowed regularly. However, according to NHP records a population of Schweinitz's sunflower was observed approximately 0.5 miles east of the project area. Therefore, a revised biological conclusion of "May affect, not likely to adversely affect, has been issued.  The USFWS concurred with the revised biological conclusion in a memo dated July 29, 2009 (see attached).	

<b>6. Essential Fish Habitat (Corps Requirement)</b>		
6a. Will this project occur in or near an area designated as essential fish habitat?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
<b>7. Historic or Prehistoric Cultural Resources (Corps Requirement)</b>		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
<b>8. Flood Zone Designation (Corps Requirement)</b>		
8a. Will this project occur in a FEMA-designated 100-year floodplain?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA.		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	Mar 5, 2010 Date



March 2, 2010

Mr. Greg Thorpe, Ph.D.  
 Environmental Management Director  
 Project Development and Environmental Analysis Branch  
 North Carolina Department of Transportation  
 1548 Mail Service Center  
 Raleigh, North Carolina 27699-1548

Dear Mr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

I-4407, Improvements to US 220 (Future I-73/I-74) from South of NC 124/US 220 Business to North of SR 1462 in Asheboro, Randolph County; Yadkin River Basin

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory stream mitigation for the unavoidable impact associated with the above referenced project. Based on the information supplied by you on February 24, 2010, the impacts are located in CU 03030003 of the Cape Fear River Basin and 03040104 of the Yadkin River Basin in the Central Piedmont (CP) Eco-Region, and are as follows.

IMPACTS / MITIGATION UNITS	Stream			Wetlands			Buffer	
	Cold	Cool	Warm	RW	NRW	CM	Zone 1	Zone 2
Impacts - Cape Fear 03030003 (CP)			74					
Mitigation Units - Cape Fear 03030003 (1:1)			74					
Impacts - Yadkin 03040104 (CP)			167					
Mitigation Units - Yadkin 03040104 (at 2:1)			306					
Mitigation Units - Yadkin 03040104 (at 1:1)			14					
Impacts - Total Project			241					
Mitigation Units - Total Project			394					

This mitigation acceptance letter replaces the mitigation acceptance letters issued on July 9, 2009 and January 27, 2010. EEP commits to implementing sufficient compensatory stream mitigation credits to offset the impacts associated with this project by the end of the MOA Year in which this project is permitted, in accordance with Section X of the Amendment No. 2 to the Memorandum of Agreement between the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U. S. Army Corps of Engineers, fully executed on March 8, 2007. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,

William D. Gilmore, P.E.  
 EEP Director

cc: Ms. Kimberly Garvey, USACE – Wilmington Regulatory Field Office  
 Mr. Brian Wrenn, Division of Water Quality, Wetlands/401 Unit  
 File: I-4407 Revised – 2

*Restoring... Enhancing... Protecting Our State*





March 2, 2010

Ms. Kimberly Garvey  
 U. S. Army Corps of Engineers  
 Wilmington Regulatory Field Office  
 69 Darlington Avenue  
 Wilmington, North Carolina 28402

Dear Ms. Garvey:

Subject: EEP Mitigation Acceptance Letter:

I-4407, Improvements to US 220 (Future I-73/I-74) from South of NC 124/US 220 Business to North of SR 1462 in Asheboro, Randolph County; Yadkin River Basin (Cataloging Units 03040103 and 03040104); Central Piedmont (CP) Eco-Region

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory stream mitigation for the unavoidable impact associated with the above referenced project. As indicated in the NCDOT's mitigation request received on February 24, 2010, stream mitigation from EEP is required for 241 feet of warm stream impact (74 feet in Cape Fear 03030003 and 167 feet in Yadkin 03040104).

IMPACTS / MITIGATION UNITS	Stream			Wetlands			Buffer	
	Cold	Cool	Warm	RW	NRW	CM	Zone 1	Zone 2
Impacts - Cape Fear 03030003 (CP)			74					
Mitigation Units - Cape Fear 03030003 (at 1:1)			74					
Impacts - Yadkin 03040104 (CP)			167					
Mitigation Units - Yadkin 03040104 (at 2:1)			306					
Mitigation Units - Yadkin 03040104 (at 1:1)			14					
Impacts - Total Project			241					
Mitigation Units - Total Project			394					

This mitigation acceptance letter replaces the mitigation acceptance letters issued on July 9, 2009 and January 27, 2010. Mitigation associated with this project will be provided in accordance with Section X of Amendment No. 2 to the Memorandum of Agreement between the N. C. Department of Environment and Natural Resources, the N. C. Department of Transportation, and the U. S. Army Corps of Engineers fully executed on March 8, 2007 (Tri-Party MOA). EEP commits to implement sufficient compensatory stream mitigation as listed above to offset the impacts associated with this project by the end of the MOA year in which this project is permitted. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,

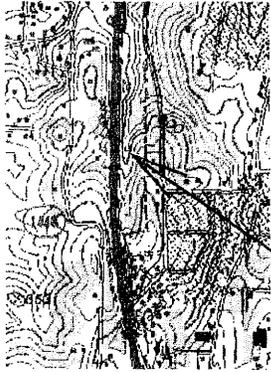
William D. Gilmore, P.E.  
 EEP Director

cc: Mr. Gregory J. Thorpe, Ph.D., NCDOT-PDEA  
 Mr. Brian Wrenn, Division of Water Quality, Wetlands/401 Unit  
 File: I-4407 Revised - 2

*Restoring... Enhancing... Protecting Our State*



# VICINITY MAP



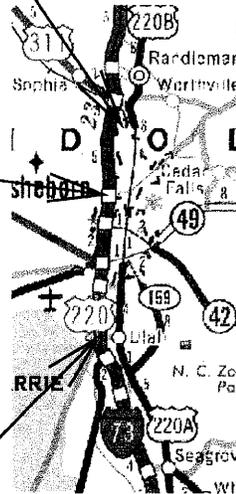
ASHEBORO QUAD



ASHEBORO QUAD



SEAGROVE QUAD



NC TRAVEL MAP

Site 4

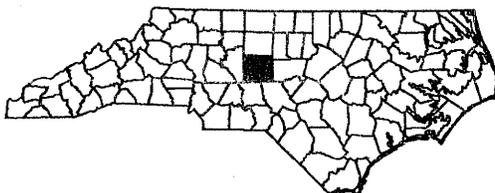
Site 3

Site 1&2

2000' 0' 2000'



QUAD SCALE



**NCDOT**

**DIVISION OF HIGHWAYS**

**RANDOLPH COUNTY**

**PROJECT: 34236 (I-4407)**

**US 220 FROM NC 134**

**TO SR 1462**

*Revised Feb 2010*

**SHEET**

**1 OF 15**

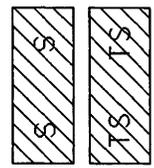
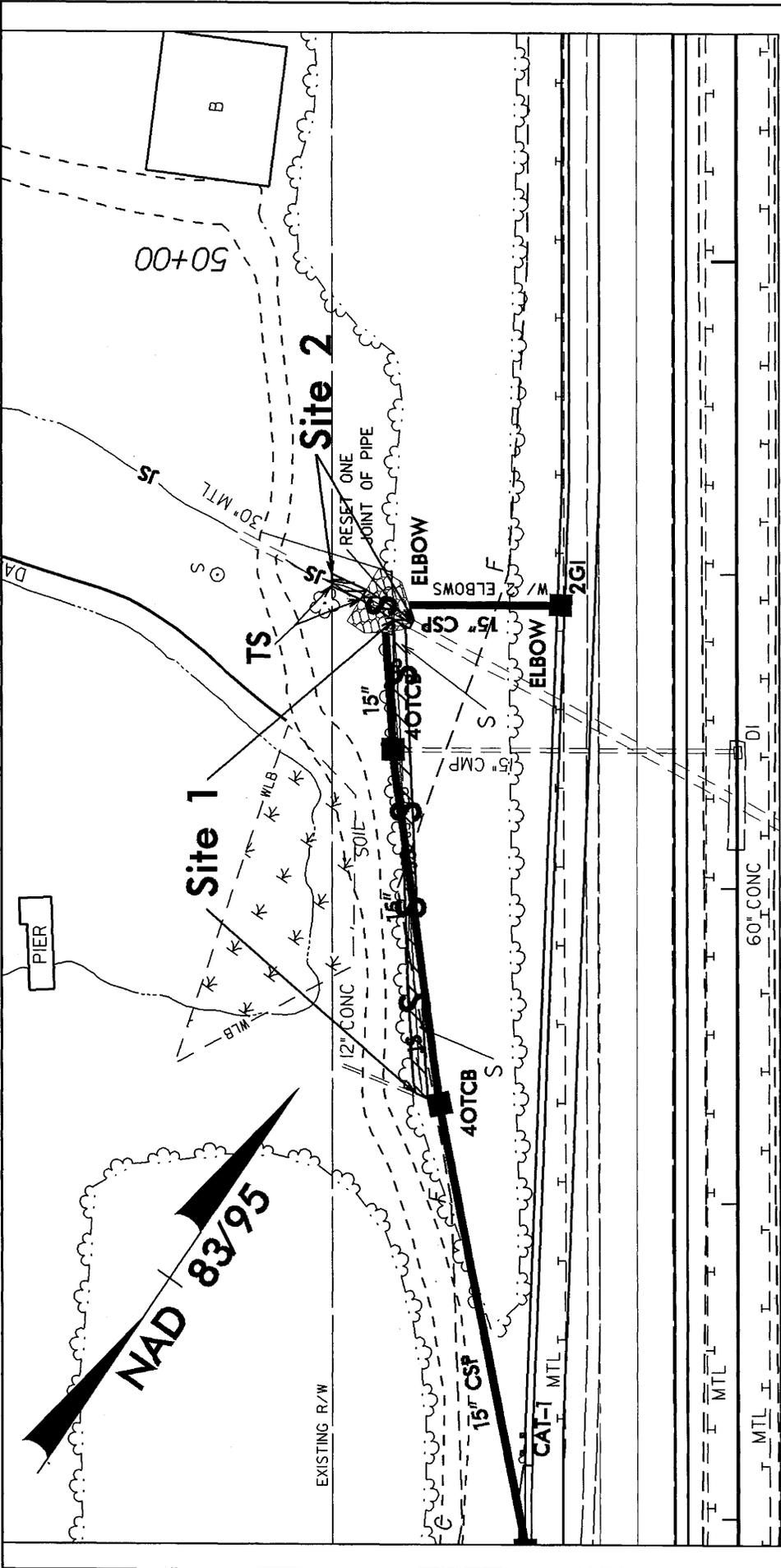
**01/15/10**

**Adjacent Property Owners**

<b>Site</b>	<b><u>Owner/ Business</u></b>	<b><u>Address</u></b>
1&2	Eddie & Karen Lambert	2362 Cole Mtn. Rd. Asheboro, NC 27205
3	NC Department of Transportation	
4	NC Department of Transportation	

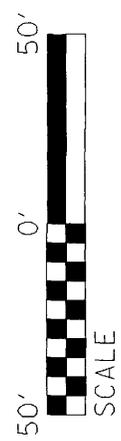
NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
Randolph County  
PROJ - 34236 1-4407  
SHEET 2 of 4 01/15/2010

15  
Revised Feb 2010



DENOTES IMPACTS IN SURFACE WATER

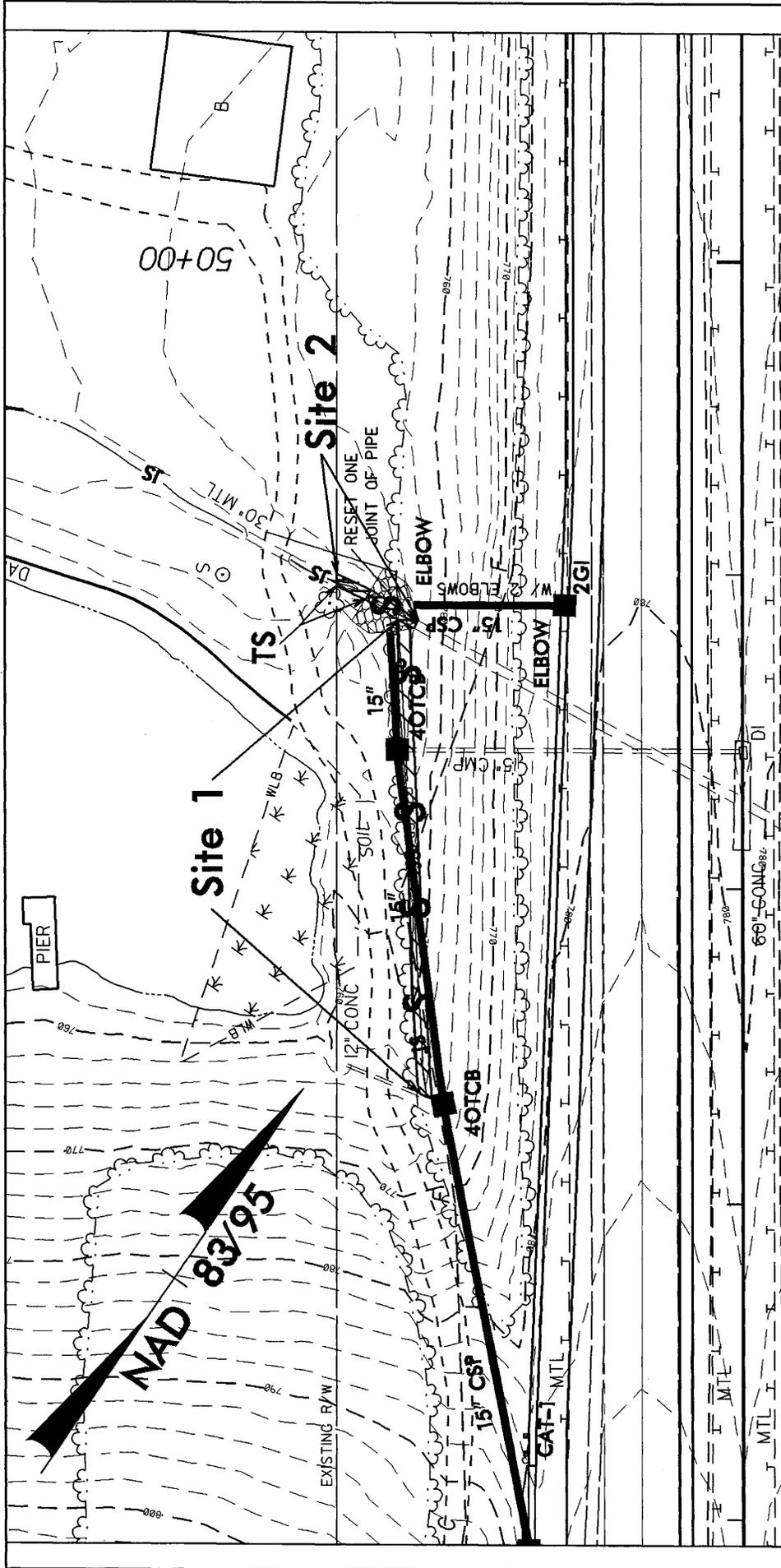
DENOTES TEMPORARY IMPACTS IN SURFACE WATER



### SITES 1 & 2

**NCDOT**  
 DIVISION OF HIGHWAYS  
 RANDOLPH COUNTY  
 PROJECT: 34236 (I-4407)

US 220 FROM NC 134 TO SR 1462  
*Revised Feb 2010*  
 SHEET 3 OF 15 06/24/09



-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER

EXISTING R/W

PIER

790

770

750

60' CONC

12" CONC

50' SOIL

15" CSP

40TCB

15" MTL

ELBOW

ELBOW

ELBOW

ELBOW

2GI

60' CONC

DI

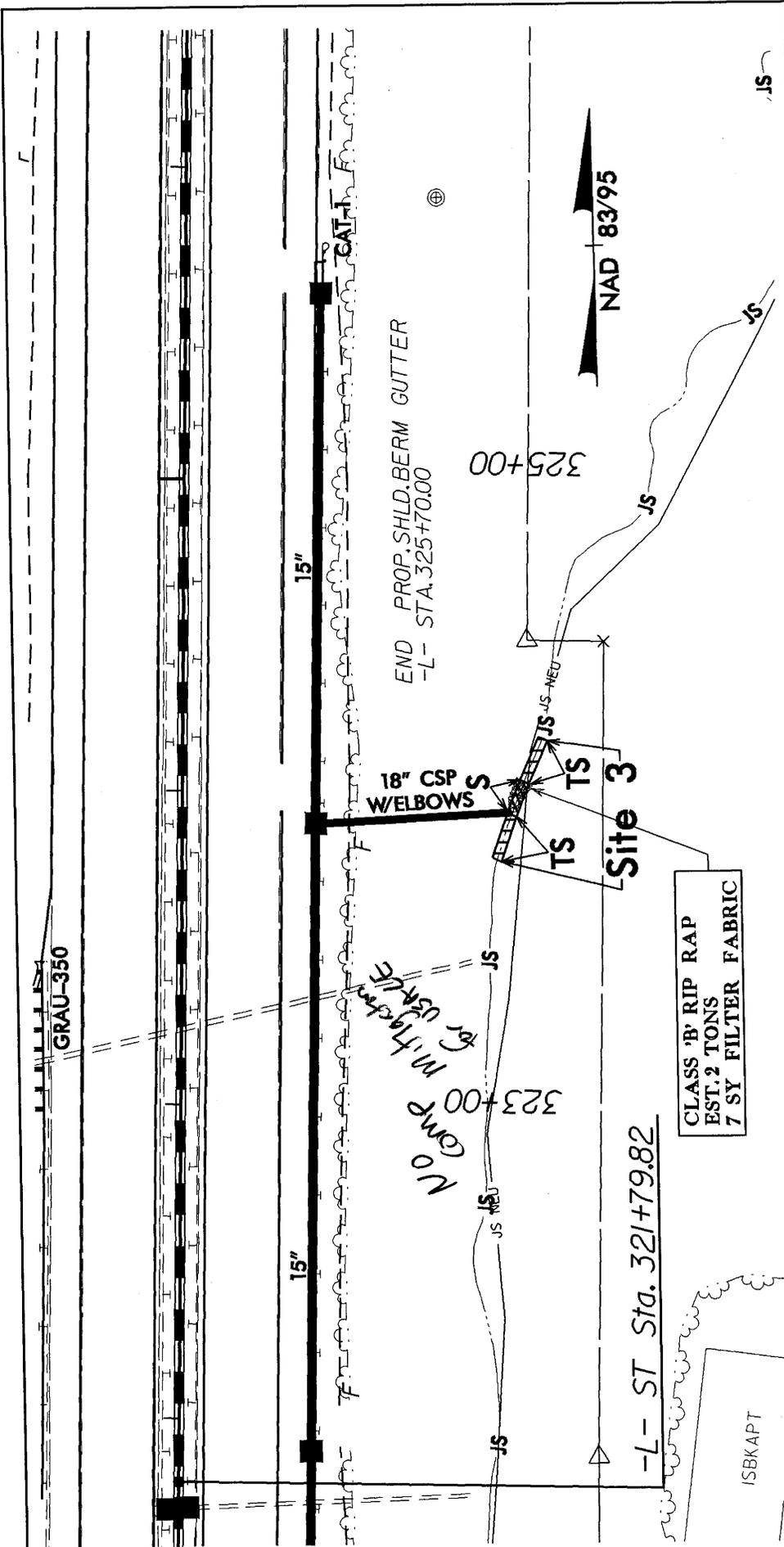
780

790



**NCDOT**  
 DIVISION OF HIGHWAYS  
 RANDOLPH COUNTY  
 PROJECT: 34236 (I-4407)

**SITES 1 & 2**



**NCDOT**  
 DIVISION OF HIGHWAYS  
 RANDOLPH COUNTY  
 PROJECT: 34236 (I-4407)

US 220 FROM NC 134 TO SR 1462  
 Revised Feb 2010  
 SHEET 5 OF 15 06/24/09

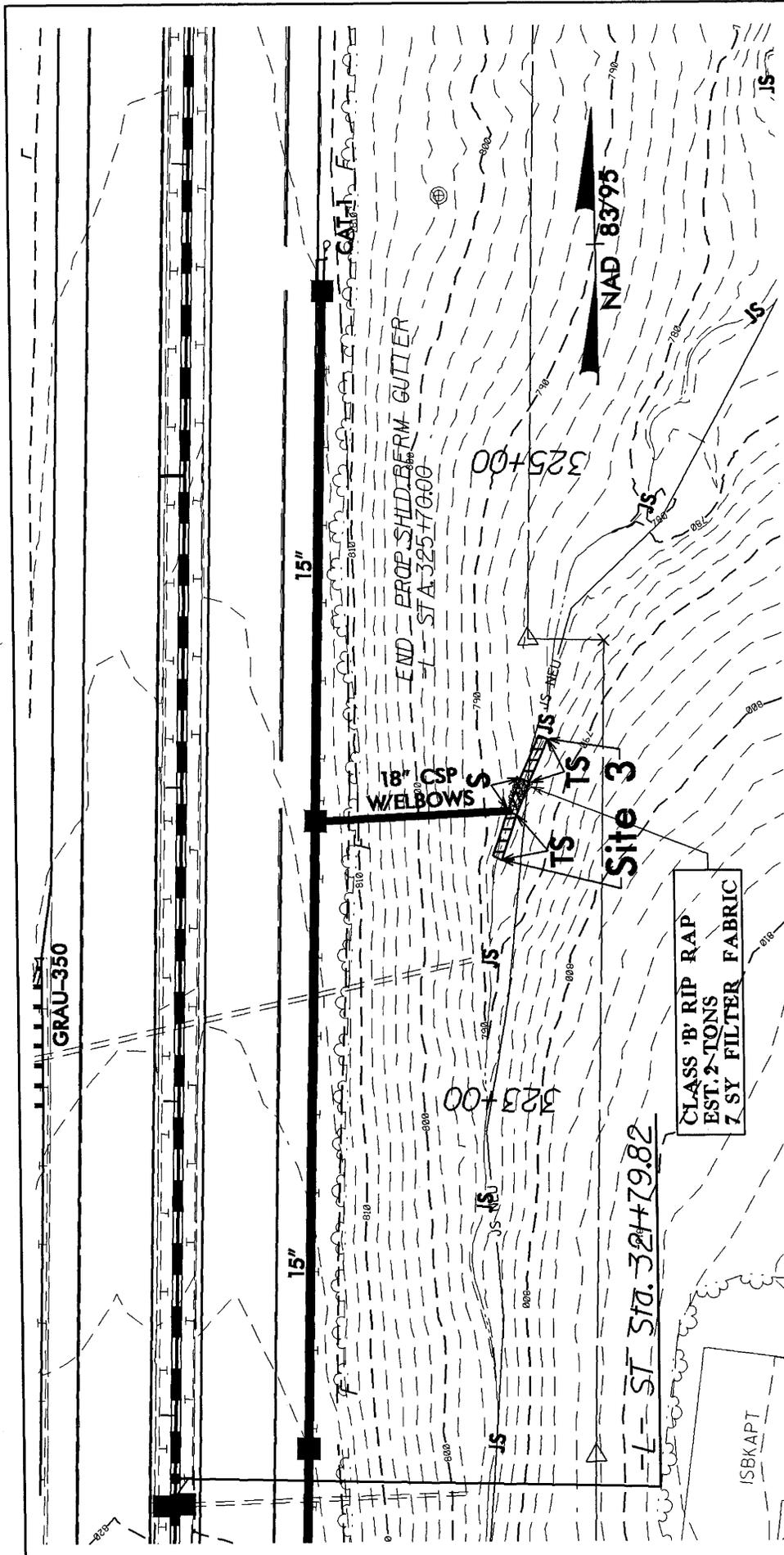


- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

**SITE 3**

-L- ST Sta. 321+79.82

CLASS 'B' RIP RAP  
 EST. 2 TONS  
 7 SY FILTER FABRIC



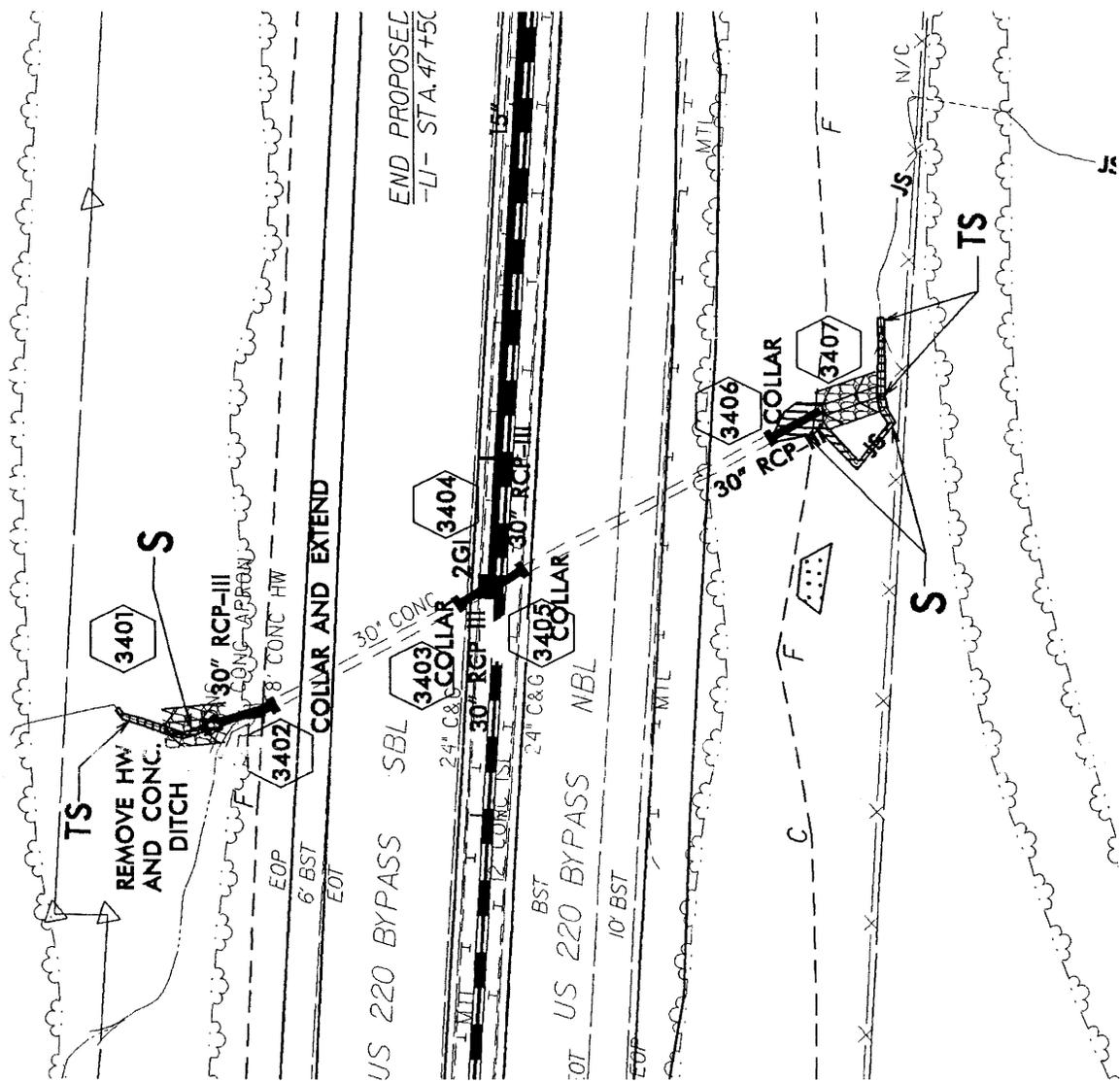
**NCDOT**  
 DIVISION OF HIGHWAYS  
 RANDOLPH COUNTY  
 PROJECT: 34236 (I-4407)

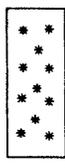


-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER

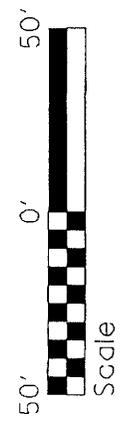
**SITE 3**

US 220 FROM NC 134 TO SR 1462  
 Revised Feb 2010  
 SHEET 6 OF 15

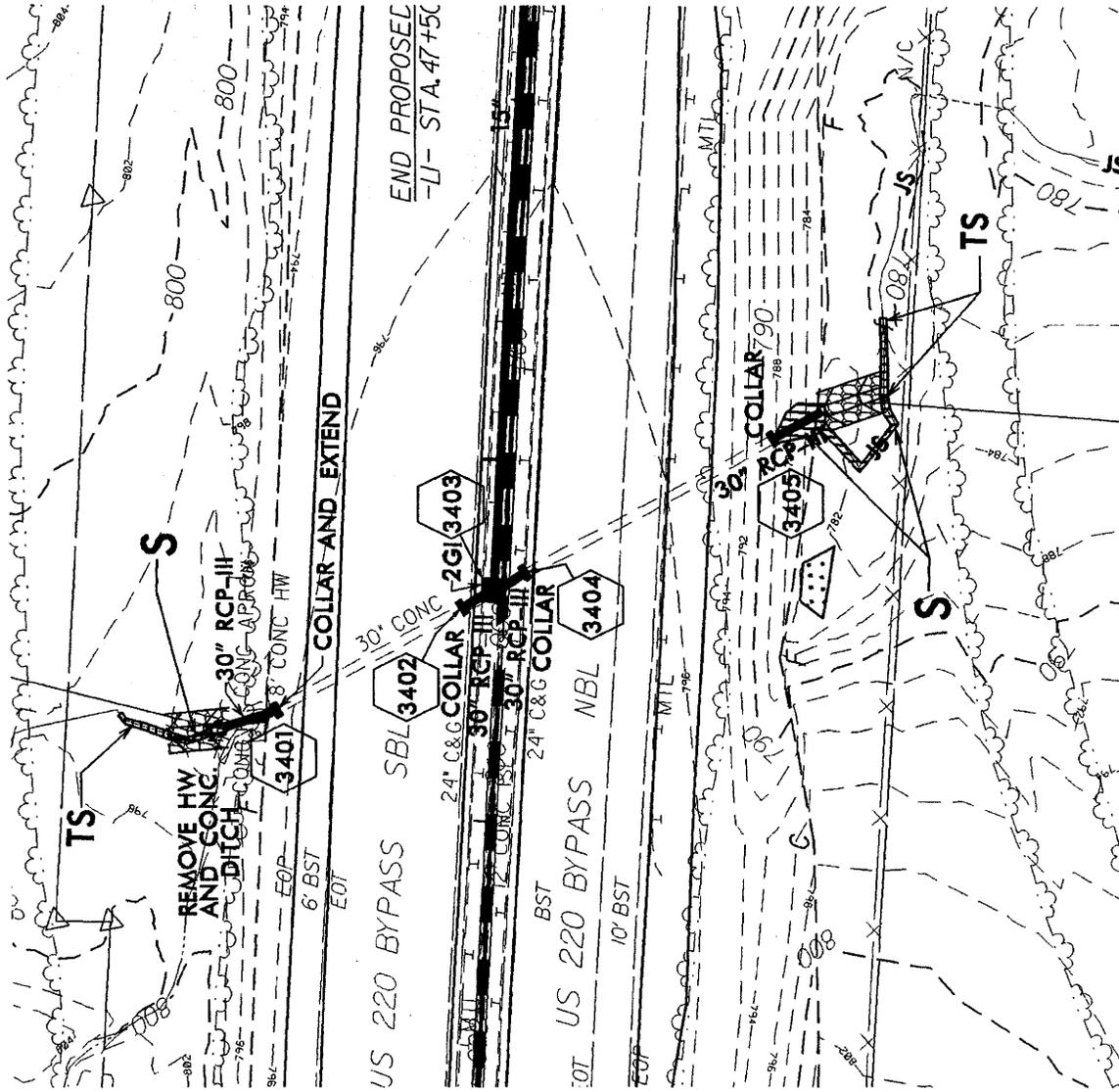


- 
 DENOTES MECHANIZED CLEARING
- 
 DENOTES IMPACTS IN SURFACE WATER
- 
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

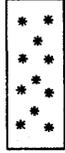
# SITE 4



**NCDOT**  
 DIVISION OF HIGHWAYS  
 RANDOLPH COUNTY  
 PROJECT: 34236 (I-4407)  
 US 220 FROM NC 134  
 Revised TO SR 1462  
 Rev'd by jdo  
 SHEET 7 OF 15  
 02/18/10



NAD 83/95



DENOTES MECHANIZED CLEARING



DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

# SITE 4



**NCDOT**  
 DIVISION OF HIGHWAYS  
 RANDOLPH COUNTY  
 PROJECT: 34256 (1-4407)

US 220 FROM NC 134

TO SR 1462

Revised Feb 2010

SHEET 8 OF 15

02/18/10

**WETLAND PERMIT IMPACT SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS						
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)	
1	-L- 47+34/48+85 Lt.	15" RCP							0.014		153		
2	-L- 48+82/49+00 Lt.	Stream Stabilization							0.001	0.001	14	11	
2	-L- 48+82/49+00 Lt.	Reset 36" RCP							0.001		4		
3	-L- 323+77/324+16 Rt.	18" CSP							0.001	0.002	11	30	
4	-L1- 44+15/44+45 ft/ft	30" RCP/Strm. Stabl.				0.003			0.005	0.002	74	37	
4*	-L1- 44+27 Lt.	30" RCP							<0.001		7		
<b>TOTALS:</b>						0.003			0.022	0.005	263	78	

\* Will replace existing concrete ditch.

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

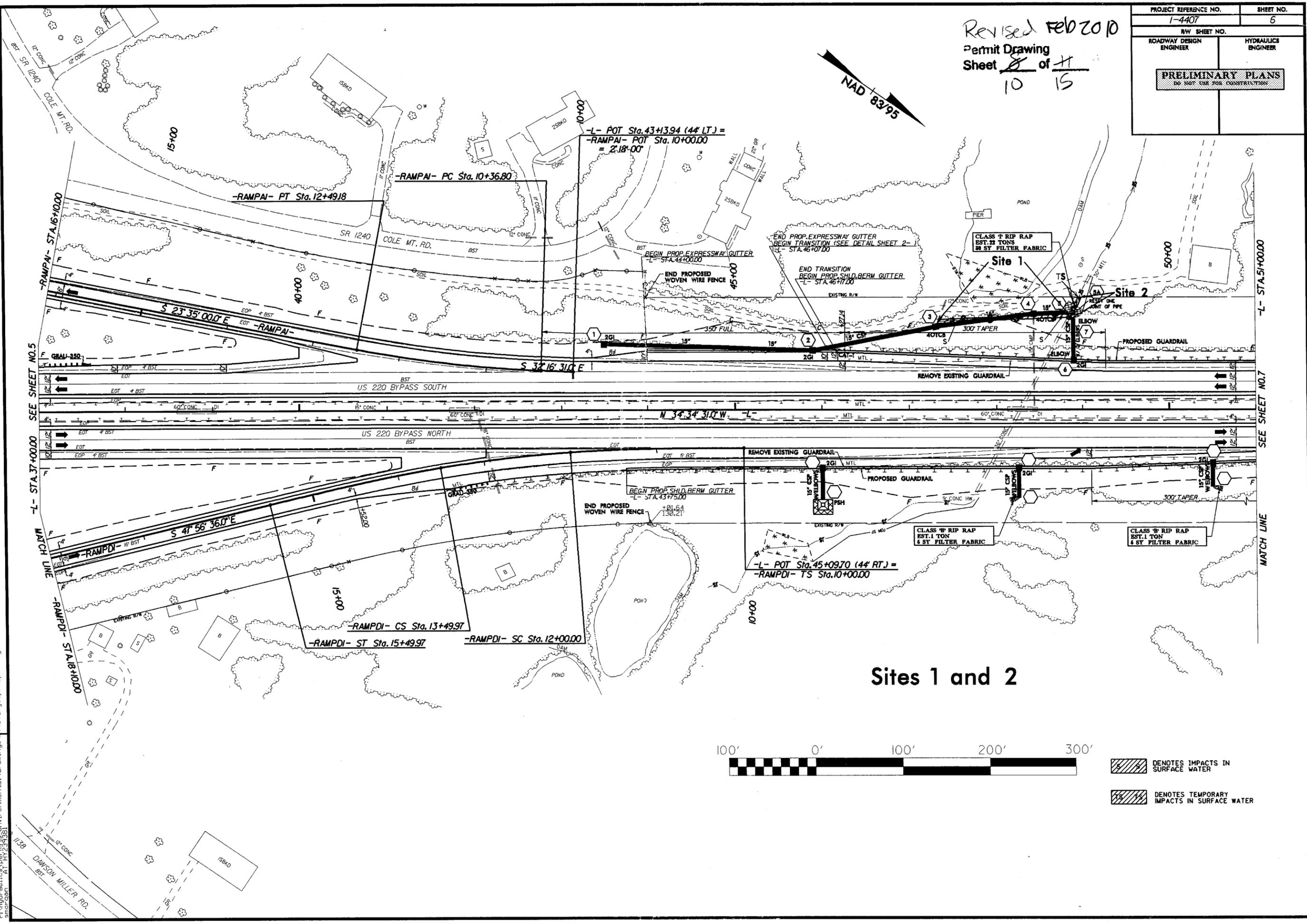
REVISED RANDOLPH COUNTY  
34236 (1-4407)

SHEET 9 of 15

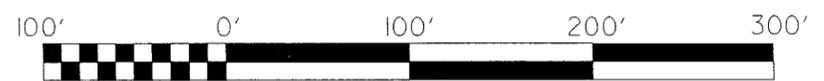
2/18/2010

PROJECT REFERENCE NO. 1-4407	SHEET NO. 6
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

Revised Feb 2010  
Permit Drawing  
Sheet 8 of 11  
10 15



Sites 1 and 2



- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

REVISIONS

-L- STA. 37+00.00 SEE SHEET NO.5

-L- STA. 51+00.00 SEE SHEET NO.7

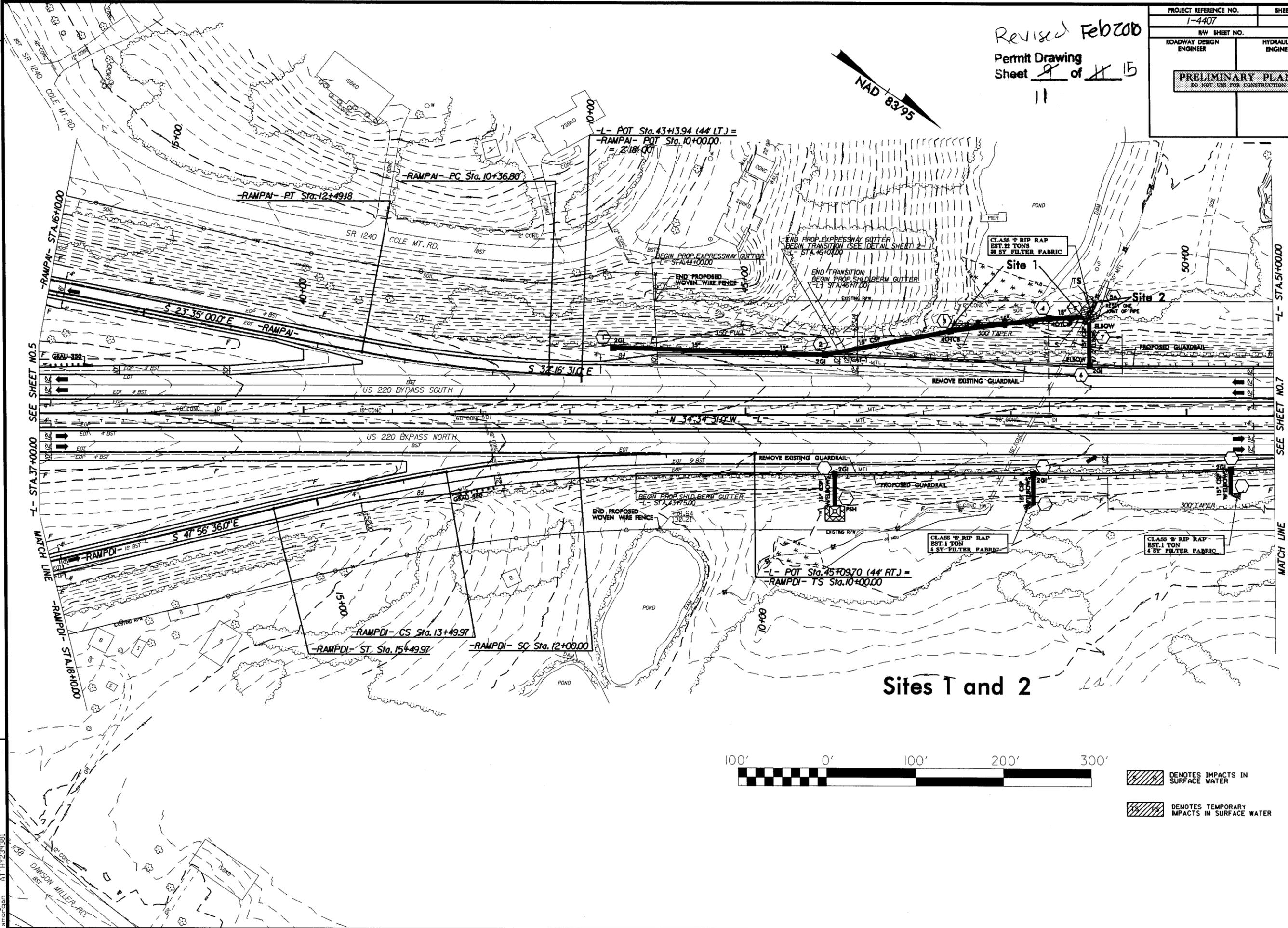
MATCH LINE

MATCH LINE

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smorlan Al 11/29/08

PROJECT REFERENCE NO. 1-4407	SHEET NO. 6
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

Revised Feb 2008  
Permit Drawing  
Sheet 9 of 15  
11



Sites 1 and 2

REVISIONS

SEE SHEET NO. 5

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MATCH LINE

L- STA. 18+00.00

L- STA. 51+00.00

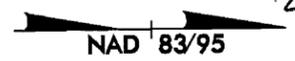
SEE SHEET NO. 7

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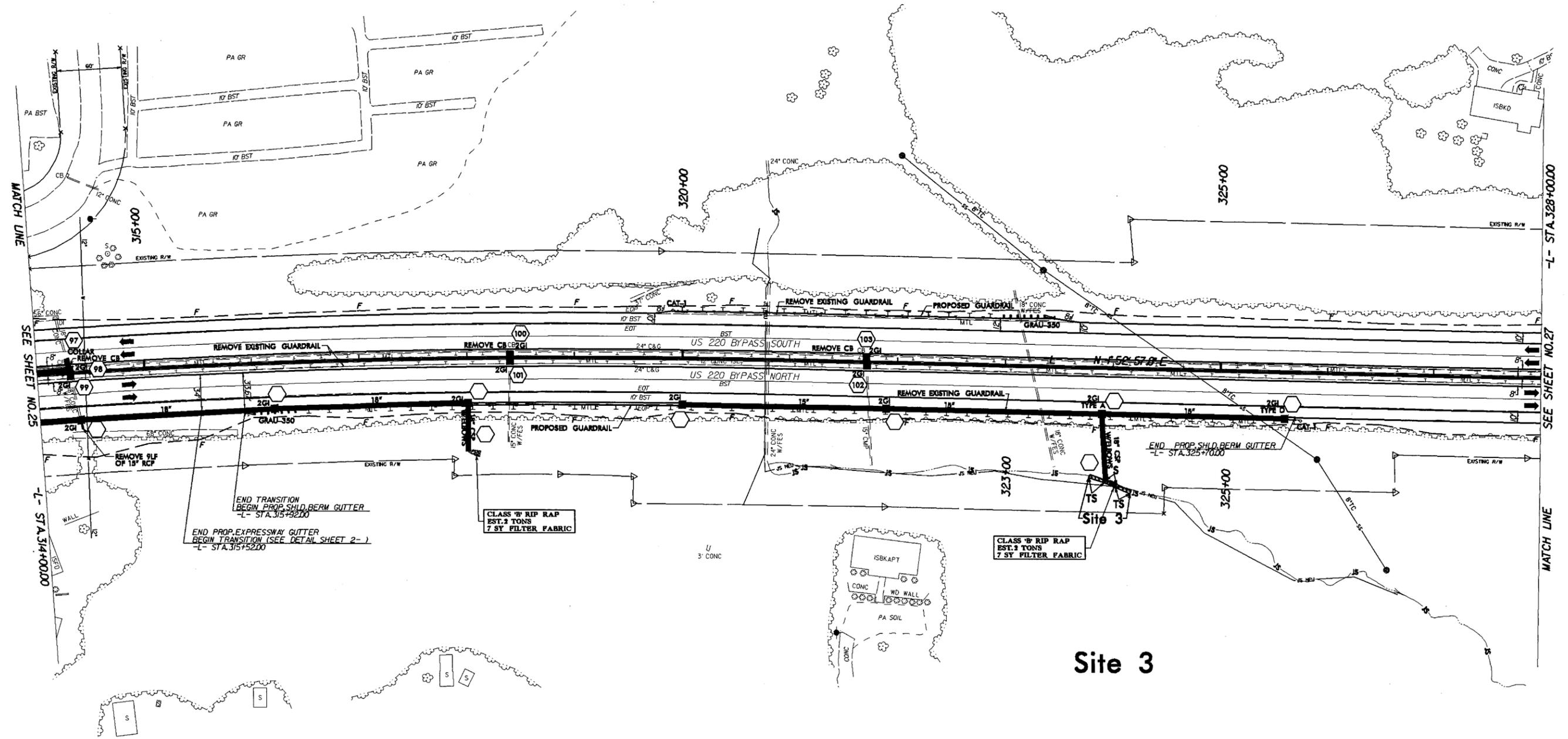
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Revised Feb 2010  
 Permit Drawing  
 Sheet 12 of 15  
 12

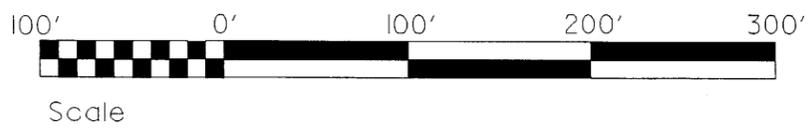
PROJECT REFERENCE NO. 1-4407	SHEET NO. 26
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS NO. 5407 USE FOR CONSTRUCTION	



REVISIONS



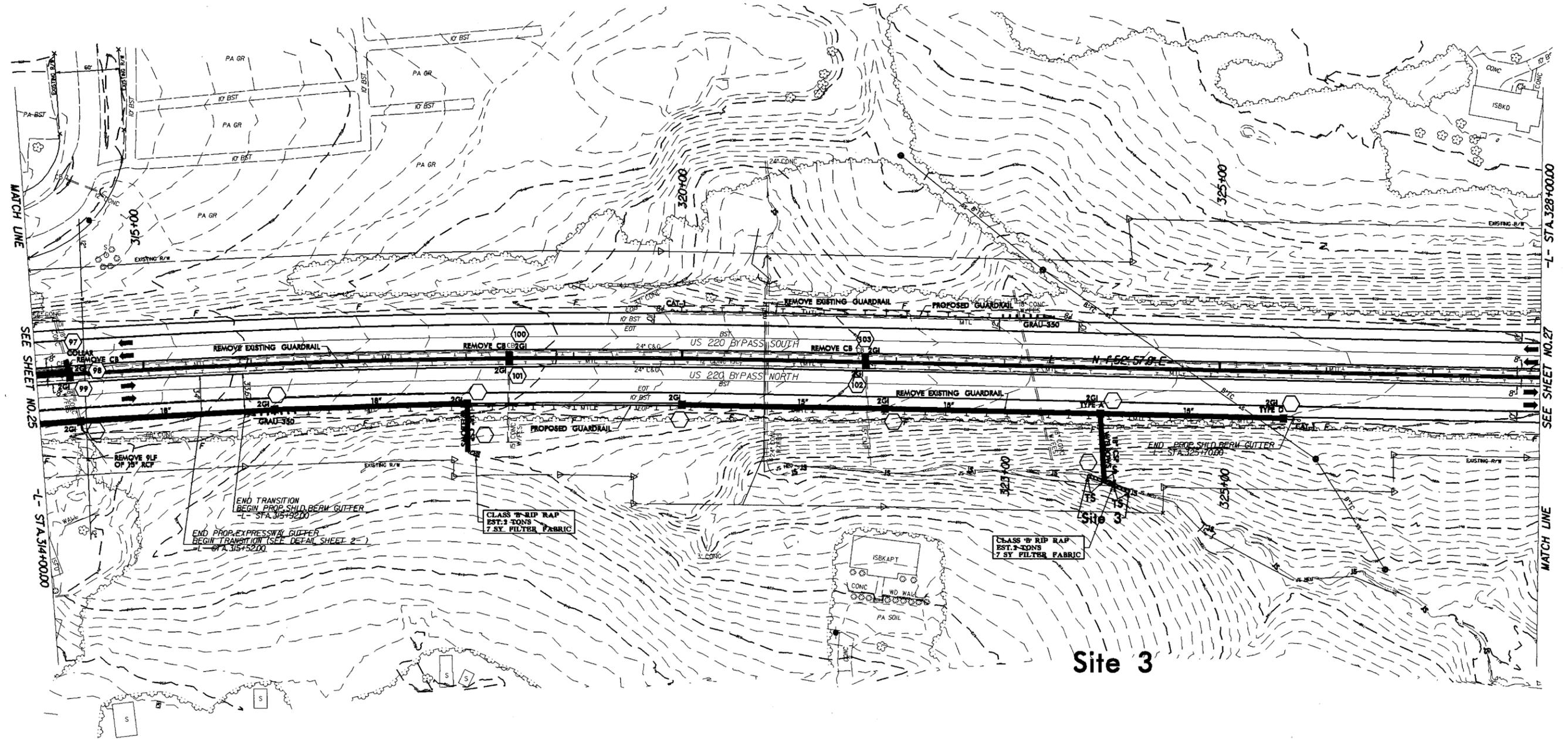
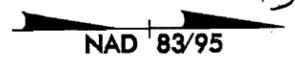
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 smorcan AT HY233381



- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

Revised Feb 2010  
 Permit Drawing  
 Sheet 13 of 15

PROJECT REFERENCE NO. 1-4407	SHEET NO. 26
RDW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> NOT TO BE USED FOR CONSTRUCTION	



REVISIONS

MATCH LINE

SEE SHEET NO. 25

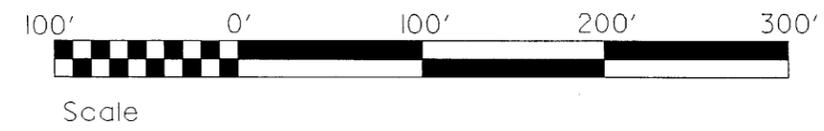
-L- STA. 314+00.00

-L- STA. 328+00.00

SEE SHEET NO. 27

MATCH LINE

Site 3



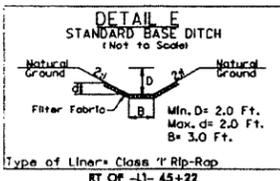
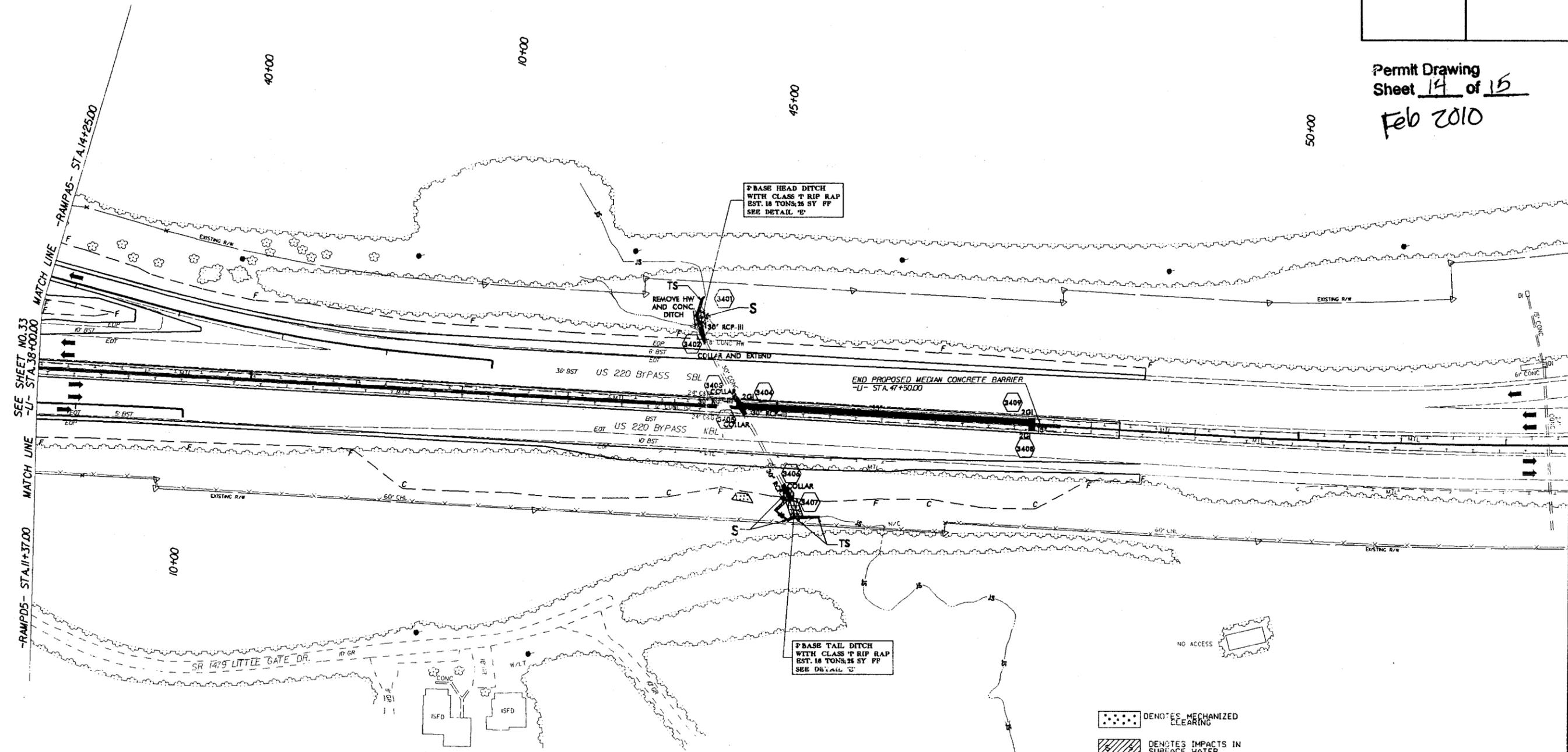
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

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 smoragan AT HY233381

PROJECT REFERENCE NO. 1-4407	SHEET NO. 34
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

Permit Drawing  
Sheet 14 of 15  
Feb 2010

NAD 83/95



- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

SITE 4



Scale

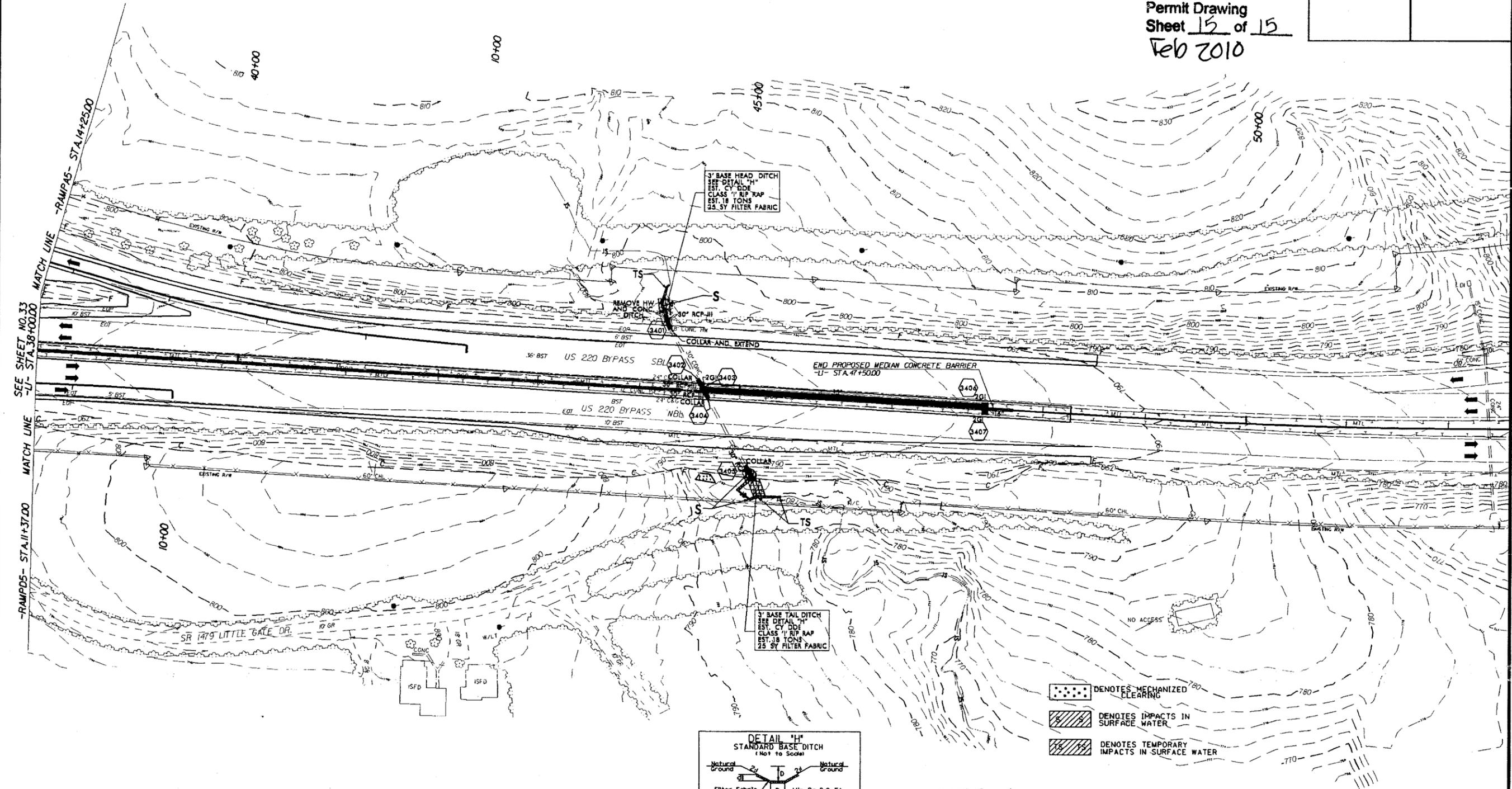
REVISIONS

19-FEB-2010 14:00  
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smc

PROJECT REFERENCE NO. 1-4407	SHEET NO. 34
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

NAD 83/95

Permit Drawing  
Sheet 15 of 15  
Feb 2010



REVISIONS

SEE SHEET NO. 33  
-LJ- STA. 38+00.00

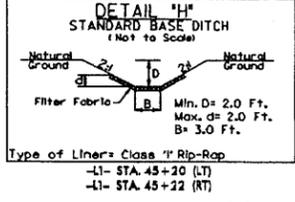
MATCH LINE

-RAMPD5- STA. 11+37.00

MATCH LINE

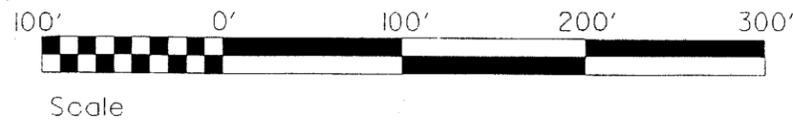
3' BASE HEAD DITCH  
SEE DETAIL "H"  
EST. CY DITCH  
CLASS "1" RIP RAP  
EST. 18 TONS  
25 SY FILTER FABRIC

3' BASE TAIL DITCH  
SEE DETAIL "H"  
EST. CY DITCH  
CLASS "1" RIP RAP  
EST. 18 TONS  
25 SY FILTER FABRIC



- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

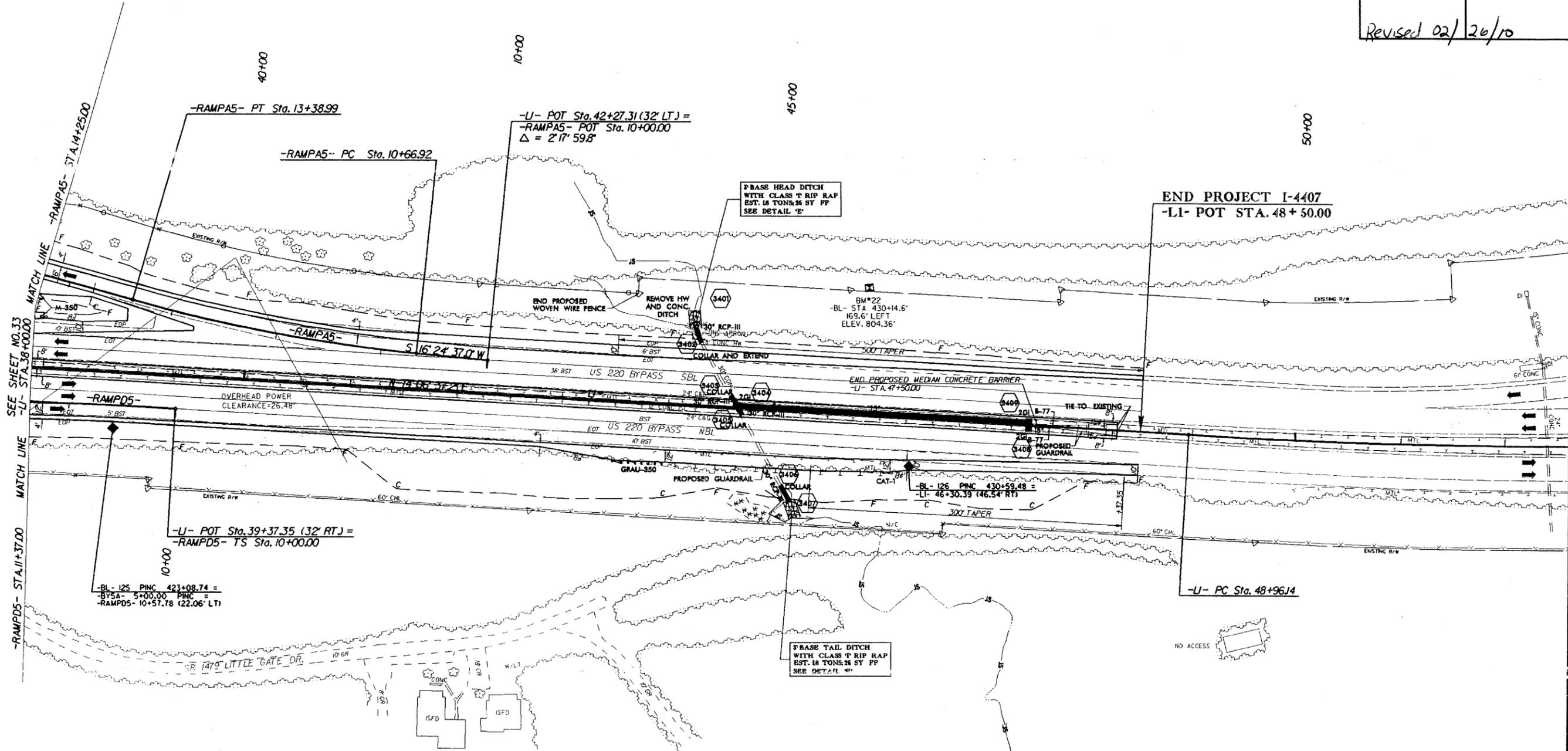
**SITE 4**



26-FEB-2010 09:41  
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smorcan AT HY234381

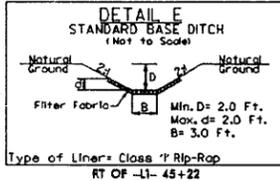


**-RAMP5- CURVE DATA**  
 PI Sta 12+03.33  
 $\Delta = 10' 23' 33.0''$  (RT)  
 $D = 3' 49' 11.0''$   
 $L = 272.08'$   
 $T = 136.4'$   
 $R = 1,500.00'$   
 SE = EXISTING



SEE SHEET NO. 33  
 -LI- STA. 38+00.00  
 MATCH LINE

SEE SHEET NO. 33  
 -LI- STA. 11+37.00  
 MATCH LINE



**-RAMPD5- SPIRAL DATA**  
 PIs Sta 11+33.36  
 $\Theta_s = 3' 49' 11.0''$   
 $L_s = 200.00'$   
 $LI = 133.36'$   
 $ST = 66.69'$

NOTES: (1) SEE SHEET 52 FOR -LI- PROFILE  
 (2) SEE SHEET 61 FOR -RAMP5- PROFILE  
 (3) SEE SHEET 63 FOR -RAMPD5- PROFILE  
 (4) 30' OF SAFETY CLEARING IS REQUIRED

**-LI- CURVE DATA**  
 PI Sta 58+25.91  
 $\Delta = 18' 26' 00.0''$  (LT)  
 $D = 0' 59' 59.7''$   
 $L = 1,843.47'$   
 $T = 929.77'$   
 $R = 5730.00'$   
 SE = EXISTING

REVISIONS

19-FEB-2010 14:16  
 R:\Roadway\I4407\rdw\_esh34.dgn  
 American