



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY  
GOVERNOR

January 17, 2013

ANTHONY J. TATA  
SECRETARY

U. S. Army Corps of Engineers  
Regulatory Field Office  
151 Patton Avenue, Room 208  
Asheville, NC 28801-5006

ATTN: Ms. Lori Beckwith  
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 13, and 33** for the proposed replacement of Bridge No. 145 over Scott Creek, Southern Railway and SR 1705 on US 23-74 in Jackson County, Federal Aid Project No. BRZ-1705(1); Division 14; WBS Element 38408.1.1, TIP No. B-4554.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace the existing 7-span, 308 foot long bridge with a 313 foot long, 3 span bridge. Due to a road, stream and railroad under the bridge, there will be 130 linear feet of bank stabilization and 0.06 acre of temporary stream fill for a temporary work bridge and work pad necessary to remove and install the new bridge. Traffic on US 23-74 will maintained on a single lane pattern, and traffic on SR 1705 will be detoured off- site during construction.

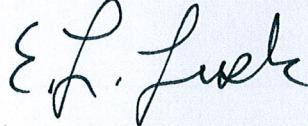
Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater management plan, permit drawings, design plans, Rapanos forms, and USFWS informal concurrence response for the above-referenced project. A Categorical Exclusion (CE) was completed and distributed in February 2012. Additional copies are available upon request.

Comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the United States Army Corps of Engineers (USACE). By copy of this letter and attachments, NCDOT hereby requests NCWRC's review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers and the NCDOT within 30 calendar days of receipt of this application.

This project calls for a letting date of June 17, 2014 and a review date of April 29, 2014. However, the date could be advanced if funding becomes available.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <http://connect.ncdot.gov/resources/Environmental>. If you have any questions or need additional information, please e-mail Michael Turchy at [maturchy@ncdot.gov](mailto:maturchy@ncdot.gov).

Sincerely,



for

Richard W. Hancock, P.E., Manager

Project Development and Environmental Analysis Unit

cc:

NCDOT Permit Application Standard Distribution List.



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: 13 33 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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes	<input checked="" 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:	Replacement of Bridge No. 145 over Scott Creek, Southern Railway and SR 1705 on US 23-74.
2b. County:	Jackson
2c. Nearest municipality / town:	Balsam
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-4554

#### 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:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6157
3g. Fax no.:	(919) 212-5785
3h. Email address:	maturchy@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: 35.406274 (DD.DDDDDD)                      Longitude: - 83.124010 (-DD.DDDDDD)
1c. Property size:	0.5 acres
<b>2. Surface Waters</b>	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Scott Creek
2b. Water Quality Classification of nearest receiving water:	C Tr
2c. River basin:	Little Tennessee
<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: Residential and mixed deciduous-coniferous forest land	
3b. List the total estimated acreage of all existing wetlands on the property: zero.	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 500	
3d. Explain the purpose of the proposed project: To replace structurally deficient bridge	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a seven-span bridge with a three-span bridge on existing location. US 74 traffic will be phased and maintained on the current structure in by reducing it to a two lane pattern. Traffic underneath the structure will be detoured off-site onto other routes. 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:	<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):	Agency/Consultant Company: 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	
<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.	

<b>C. Proposed Impacts Inventory</b>						
<b>1. Impacts Summary</b>						
1a. Which sections were completed below for your project (check all that apply):						
<input type="checkbox"/> Wetlands		<input checked="" type="checkbox"/> Streams - tributaries		<input type="checkbox"/> Buffers		
<input type="checkbox"/> Open Waters		<input type="checkbox"/> Pond Construction				
<b>2. Wetland Impacts</b>						
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 type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
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>						
2h. Comments:						
<b>3. Stream Impacts</b>						
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 type="checkbox"/> P <input checked="" type="checkbox"/> T	Temporary Work Bridge	Scott Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	25	<0.01
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Bank Stabilization	Scott Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	25	130
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temporary Work Pad	Scott Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	25	0.01
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temporary Work Bridge	Scott Creek & Dark Ridge Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	25	0.04
Site <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 <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>						130' Perm 0.06 ac Temp
3i. Comments:						

**4. 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>				X Permanent X Temporary

4g. Comments:

**5. 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>		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. This bridge will be replaced as close to the existing bridge as possible, but with 4 less sets of bents. Currently, bridge bents exist on both banks of the stream. The new bridge will only have bents on one side of the stream. Unfortunately, due to the limited space under the bridge with a road, a railroad track, and a stream, there is little room to place bridge bents without impact to the stream. Dark Ridge Road (the road that runs under the bridge) will be closed during construction to allow for construction and thus result in less temporary impact to Scott's Creek.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Design Standards for Sensitive Waters will be used for this project. Deck drains will not discharge into open water. The Department will observe an in-stream moratorium for trout from October 15-April 15.		
<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain: The NCDOT does not propose mitigation for stream bank stabilization activities. Stabilizing the bank of a stream does not require fill in the stream bed and, therefore, under Section 404 of the Clean Water Act, does not constitute Loss of Waters of the U.S. and is not subject to compensatory mitigation. Furthermore, the proposed bank stabilization activities are necessary to prevent erosion and sedimentation, i.e. preventing bank destabilization and minimizing impacts to the environment.	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input 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 type="checkbox"/> Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
<b>5. Complete if Using a Permittee Responsible Mitigation Plan</b>		

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	
6f. Total buffer mitigation required:				

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:

<b>E. Stormwater Management and Diffuse Flow Plan (required by DWQ)</b>	
<b>1. Diffuse Flow Plan</b>	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	<input type="checkbox"/> Yes <input type="checkbox"/> No
<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 attached 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5. DWQ 401 Unit Stormwater Review</b>	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

<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 & Distributed February 2012.	<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 type="checkbox"/> Raleigh	<input checked="" type="checkbox"/> Asheville
<p>5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?</p> <p>NHP Element Occurance Search, USFWS Website, and NCDOT onsite surveys.</p> <p>Informal concurrence (included in this application) from the USFWS was required due to the potential of impacts to Indiana Bat. Marginal habiat for small whorled pogonia was present is the project area. The latest survey (8/22/2012) indicated no specimen of small whorled pogonia were found. All other species for Jackson county have biological conclusions of "No Effect", due to lack of habitat.</p>		
<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?		
<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		
Mr. Richard Hancock, P.E. Applicant/Agent's Printed Name	 Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	1-17-14 Date





# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Asheville Field Office  
160 Zillicoa Street  
Asheville, North Carolina 28801

June 19, 2013

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

Dear Dr. Thorpe:

Subject: Endangered Species Concurrence for the Proposed Construction of a North Carolina Department of Transportation Project B-4554--Replacement of Bridge #145 on US 23-74 over Scott Creek, Jackson County, North Carolina

On May 28, 2013, we received your letter (via email) requesting section 7 concurrence on effects the subject bridge project may have on the federally endangered Indiana bat (*Myotis sodalis*). The following comments are provided in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (Act).

Your letter states that an inspection of the bridge on August 22, 2012, revealed smudges of body oil from bats using the bridge as roost habitat. Your proposal, in a concurrence request addendum dated June 7, 2013, to construct two bat houses at the project site to offset the loss of suitable roost habitat on the existing bridge should reduce the potential for effects to the Indiana bat. With the condition to install bat houses, we concur with your biological conclusion that the project may affect, but is not likely to adversely affect, the Indiana bat. Therefore, we believe the requirements under section 7(c) of the Act are fulfilled. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

If we can be of assistance or if you have any questions about these comments, please contact Mr. Jason Mays of our staff at 828/258-3939, Ext. 226. In any future correspondence concerning this project, please reference our Log Number 4-2-13-229.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Mark A. Cantrell', with a stylized flourish at the end.

Mark A. Cantrell  
Acting Field Supervisor



**North Carolina Department of Transportation**  
**Highway Stormwater Program**  
**STORMWATER MANAGEMENT PLAN**  
**FOR LINEAR ROADWAY PROJECTS**



(Version 1.2; Released July 2012)

**Project/TIP No.:** B-4554

**County(ies):** Jackson

**Page 1 of 1**

**General Project Information**

<b>Project No.:</b>	B-4554	<b>Project Type:</b>	Bridge Replacement	<b>Date:</b>	8/16/2013
<b>NCDOT Contact:</b>	Stephen R. Morgan, PE	<b>Contractor / Designer:</b>	NCDOT		
<b>Address:</b>	NCDOT Hydraulics Unit 1590 Mail Service Center Raleigh, NC 27699	<b>Address:</b>			
<b>Phone:</b>	919-707-6739	<b>Phone:</b>			
<b>Email:</b>	smorgan@ncdot.gov	<b>Email:</b>			
<b>City/Town:</b>	Sylva	<b>County(ies):</b>	Jackson		
<b>River Basin(s):</b>	Little Tennessee	<b>CAMA County?</b>	No		
<b>Primary Receiving Water:</b>	Scott Creek	<b>NCDWQ Stream Index No.:</b>	2-79-39		
<b>NCDWQ Surface Water Classification for Primary Receiving Water</b>	<b>Primary:</b>	Class C			
	<b>Supplemental:</b>	Trout Waters (Tr)			
<b>Other Stream Classification:</b>					
<b>303(d) Impairments:</b>	NONE				
<b>Buffer Rules in Effect</b>					

**Project Description**

<b>Project Length (lin. Miles or feet):</b>	0.42 mi.	<b>Surrounding Land Use:</b>	Rural, mountainous		
	<b>Proposed Project</b>		<b>Existing Site</b>		
<b>Project Built-Up Area (ac.)</b>	2.81 ac.		2.54 ac.		
<b>Typical Cross Section Description:</b>	Roadway consists of 2 12-foot lanes in each direction, 16-foot paved median with traffic barrier, 10-foot paved shoulders transitioning to variable side slopes.				
<b>Average Daily Traffic (veh/hr/day):</b>	<b>Design/Future:</b> ADT for 2030 is 40800	<b>Existing:</b>	ADT for 2012 is 27912		

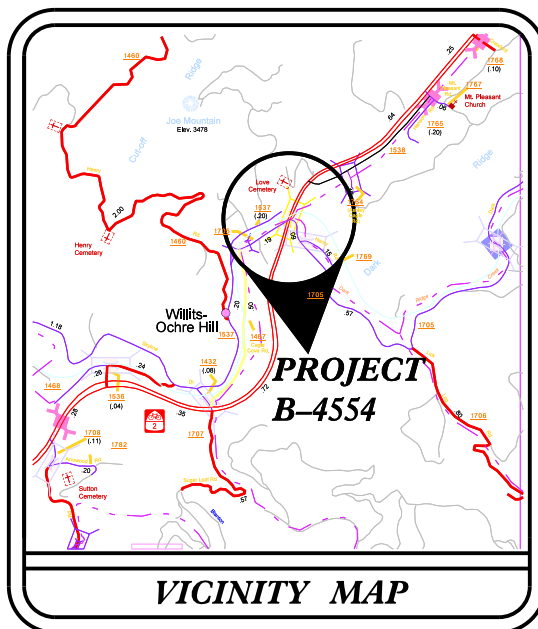
**General Project Narrative:** Replacement of existing structure #145 on US 23-74 over SR 1705 (Darkridge Rd.), Southern Railroad and Scott Creek, including drainage, grading and paving. The new bridge will have to be stage constructed for maintenance of traffic and will require temporary work bridges on either side of the existing bridge.

**References**



05/08/14

See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PERMIT DRAWING  
SHEET 1 OF 5

JACKSON COUNTY

LOCATION: BRIDGE NO.145 ON US 23-74 OVER SR 1705,  
SOUTHERN RAILROAD AND SCOTT CREEK.

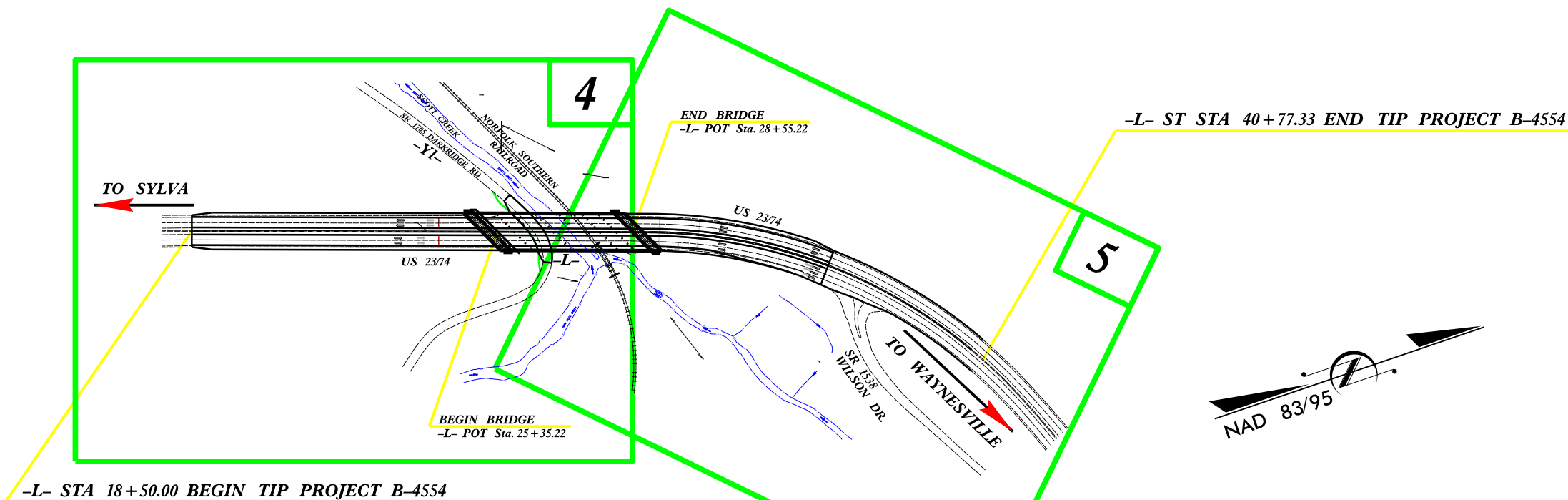
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4554	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38408.1.1	BRZ-1705(1)	P.E.	
38408.2.1	BRZ-1705(1)	RW&UTIL.	



WETLAND AND SURFACE WATER IMPACTS PERMIT

TIP PROJECT: B-4554

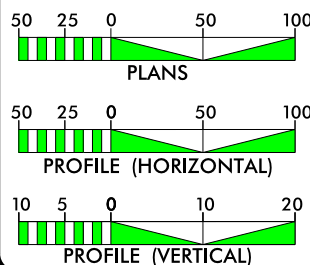


CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II. THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

CONTRACT:

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 27,912  
ADT 2030 = 40,800  
DHV = 12 %  
D = 55 %  
T = 8 % \*  
V = 60 MPH  
\* TTST = 4 DUAL 4  
FUNC CLASS = MAJOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4554 = 0.36 Miles  
LENGTH STRUCTURE TIP PROJECT B-4554 = 0.06 Miles  
TOTAL LENGTH TIP PROJECT B-4554 = 0.42 Miles

Prepared in the Office of:  
DIVISION OF HIGHWAYS  
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
AUGUST 23, 2012

LETTING DATE:  
JUNE 17, 2014

JIMMY GOODNIGHT, P.E.  
PROJECT ENGINEER

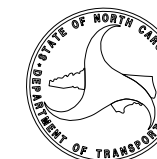
MARK HUSSEY  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.



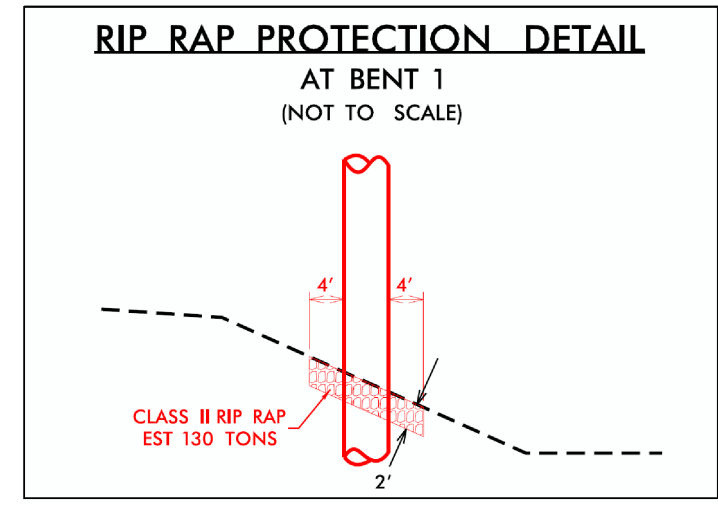
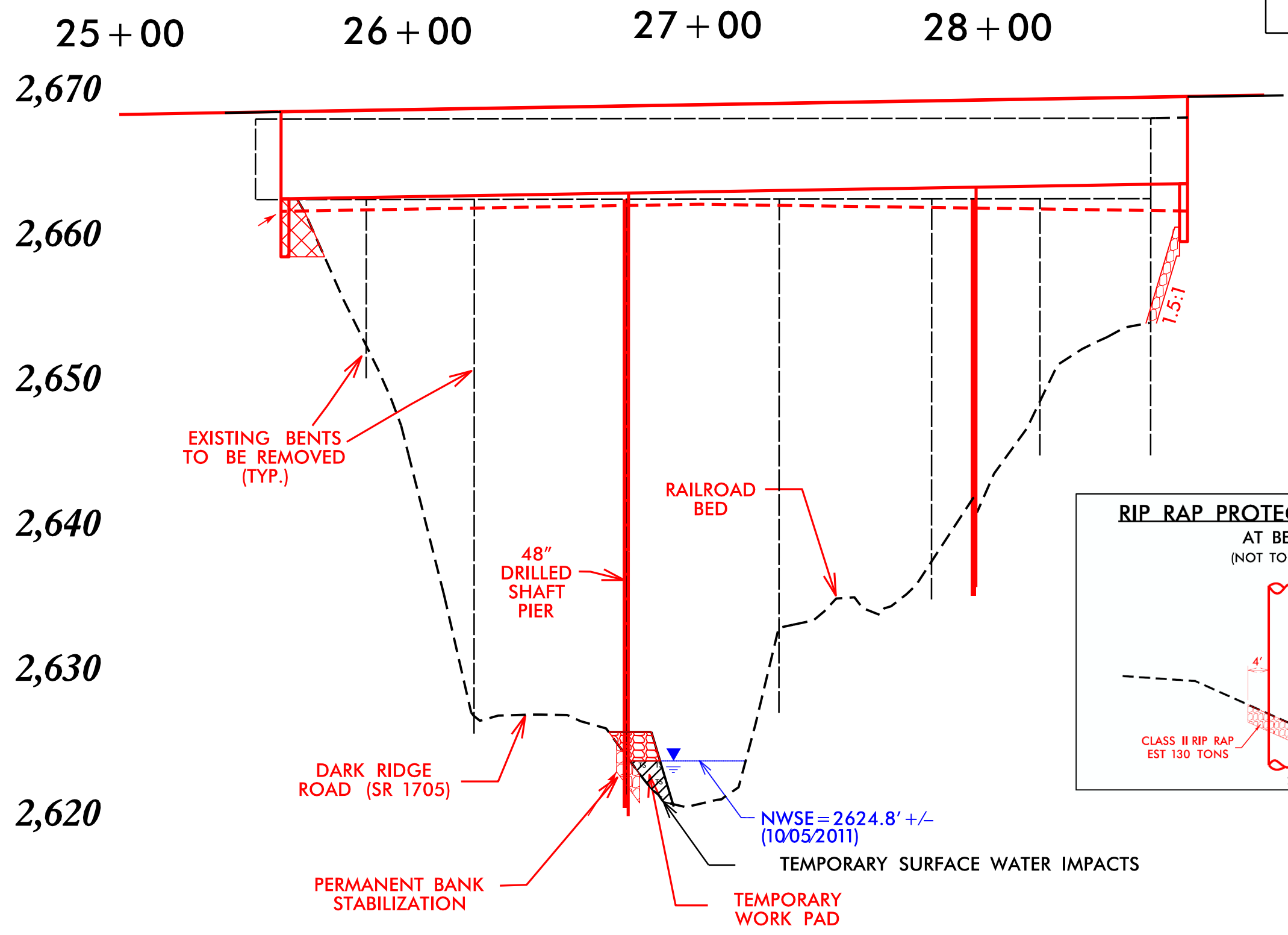
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\$\$\$\$\$DGN\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$

8/17/99

PROJECT REFERENCE NO. <b>B-4554</b>	SHEET NO. <b>4</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

**PERMIT DRAWING  
SHEET 2 OF 5**

# PROFILE



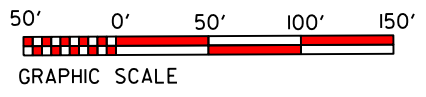
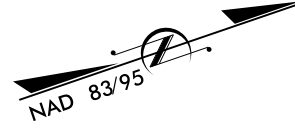
REVISIONS  
February 21, 2013 - Right of Way Revision per Email submittal dated February 18, 2013 - Removed Parcel number 1 from plans

8/17/99

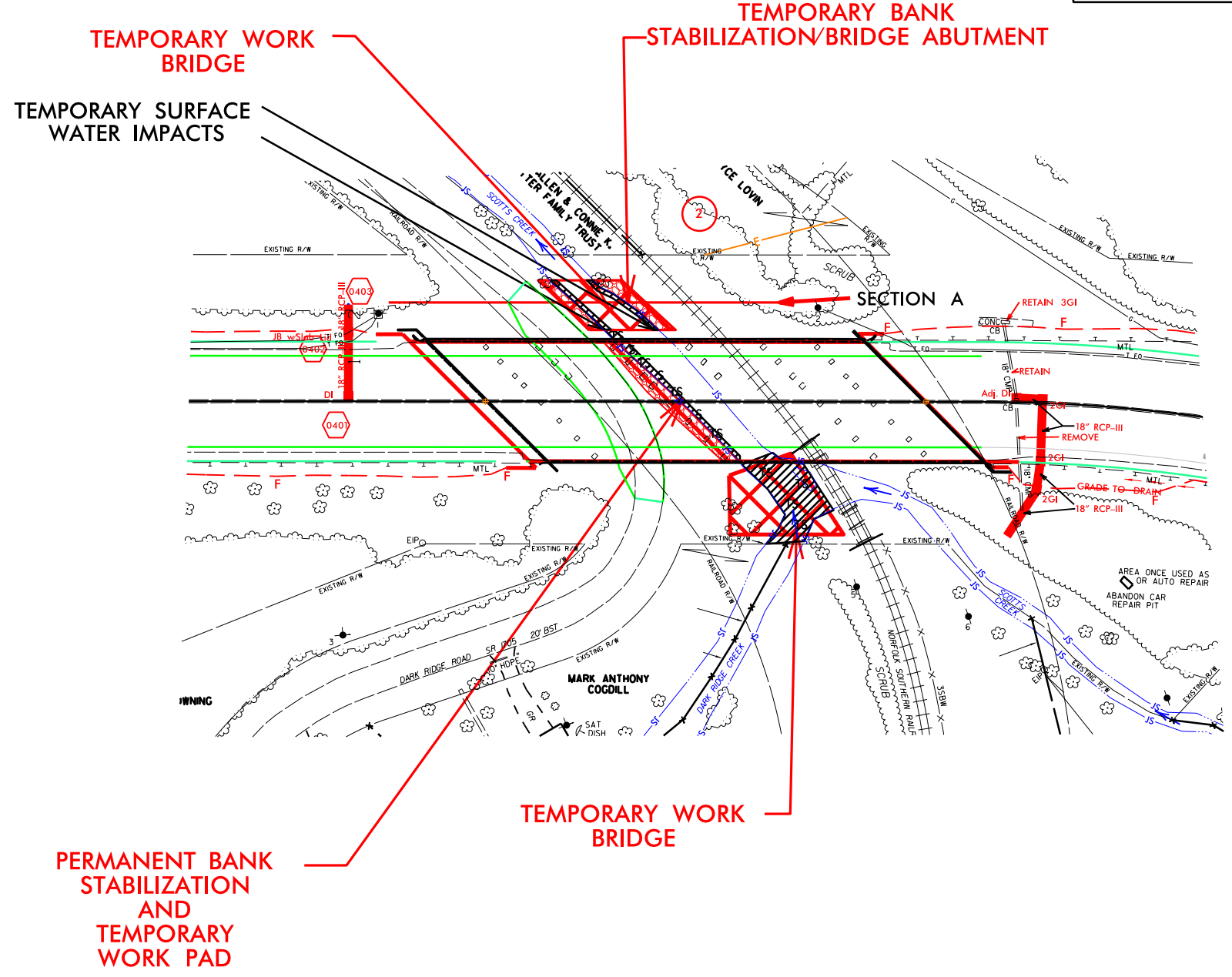
PROJECT REFERENCE NO. <b>B-4554</b>	SHEET NO. <b>4</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

**PERMIT DRAWING**  
**SHEET 3 OF 5**

# PLAN



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

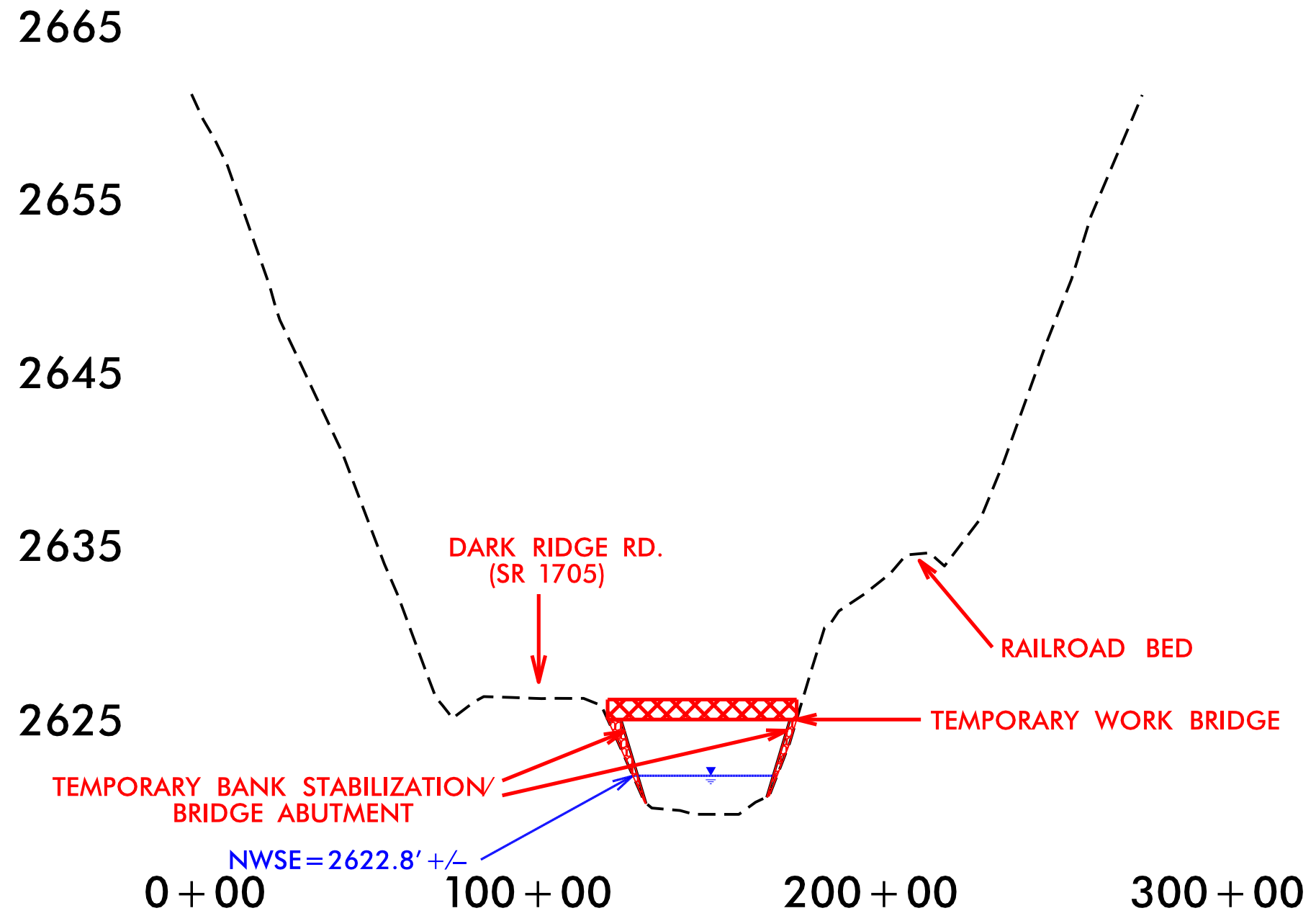


SYSTEMS DESIGN  
PERMANENT

# SECTION A

PERMIT DRAWING  
SHEET 4 OF 5

PROJECT REFERENCE NO.	SHEET NO.
<b>B-4554</b>	
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



<b>WETLAND PERMIT IMPACT SUMMARY</b>												
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	26+33 LT.	Temp. Work Br. and Bank Stab.							0.01		75	
1	26+78	Work Pad							0.01		130	
	26+78	Bank. Stabilization								130		
1	27+60 RT.	Temp. Work Br.							0.04		83	
<b>TOTALS:</b>									0.06		130	288

Note: Temporary impacts from work bridge at 27+60rt could include temporary bents in water due to stream geometry.

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

JACKSON COUNTY  
 WBS - 38408.1.1 (b-4554)

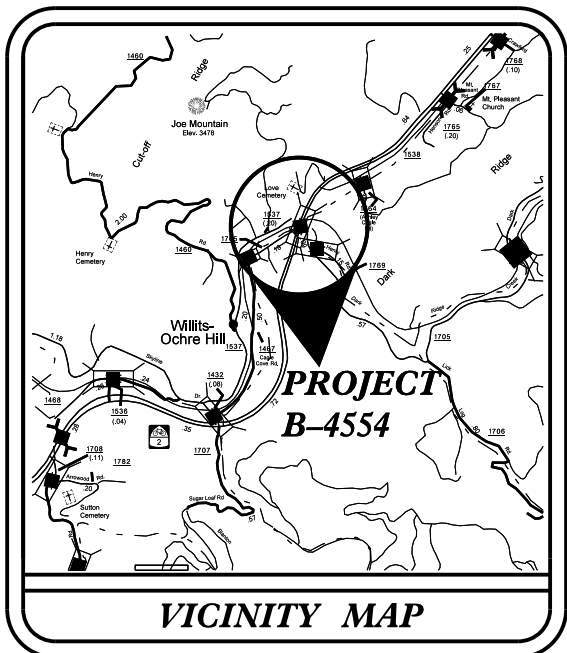
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**JACKSON COUNTY**

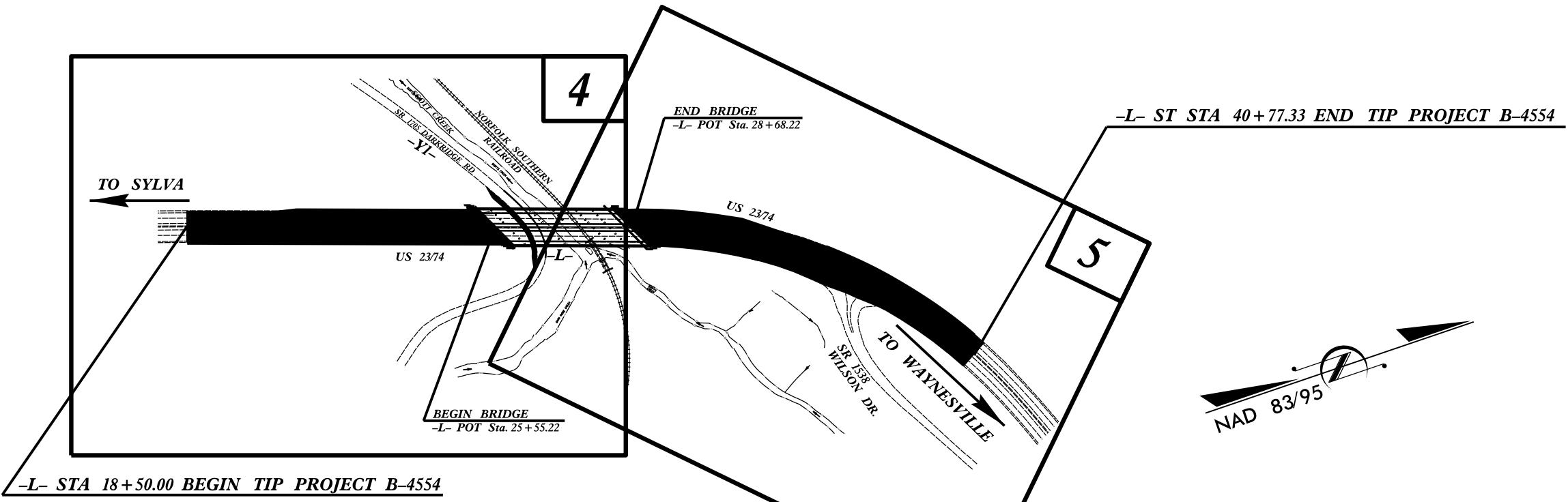
LOCATION: BRIDGE NO. 145 ON US 23-74 OVER SR 1705,  
SOUTHERN RAILROAD AND SCOTT CREEK.

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4554	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38408.1.1	BRZ-1705(1)	P.E.	
38408.2.1	BRZ-1705(1)	RW&UTIL.	



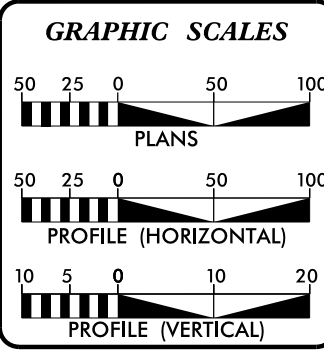
**TIP PROJECT: B-4554**



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II. THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

**CONTRACT:**



**DESIGN DATA**

ADT 2012 =	27,912
ADT 2030 =	40,800
DHV =	12 %
D =	55 %
T =	8 % *
V =	60 MPH
* TTST =	4 DUAL 4
FUNC CLASS =	MAJOR ARTERIAL

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-4554 =	0.36 Miles
LENGTH STRUCTURE TIP PROJECT B-4554 =	0.06 Miles
TOTAL LENGTH TIP PROJECT B-4554 =	0.42 Miles

Prepared In the Office of:

**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	AUGUST 23, 2012
LETTING DATE:	JUNE 17, 2014

KEVIN MOORE, P.E.  
PROJECT ENGINEER

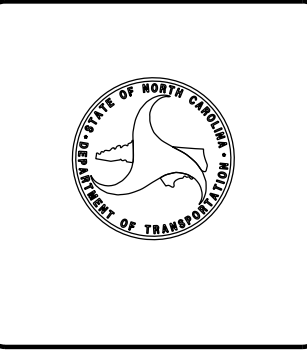
MARK HUSSEY  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.



06-JAN-2014 15:20  
R:\RODWAY\PROJ\B4554\_Rdy\_tsh.dgn  
\$\$\$\$\$SERNAME\$\$\$\$\$

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-4554	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b>	
DO NOT USE FOR CONSTRUCTION	

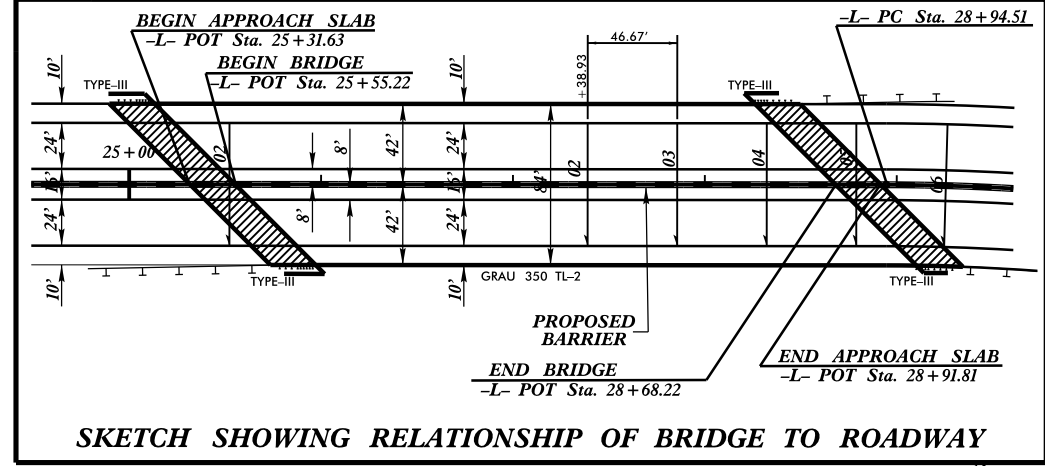
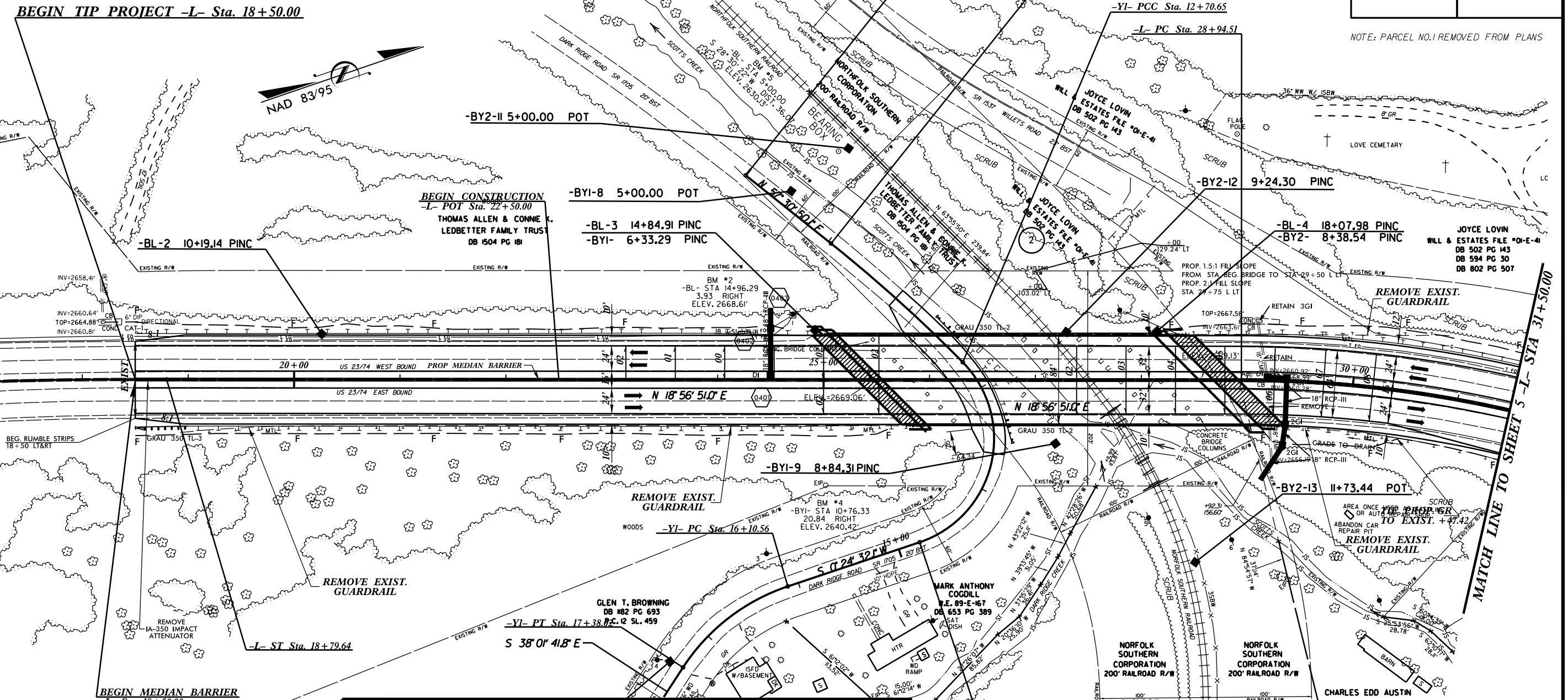
PIs Sta 12+00.18	PI Sta 14+40.52	PIs Sta 16+79.80	PI Sta 33+55.06	PIs Sta 38+70.49	PIs Sta 43+32.97	PI Sta 46+54.24	PIs Sta 49+72.25
$\Delta = 7' 29' 59.9"$	$\Delta = 13' 58' 55.2"$ (RT)	$\Delta = 7' 29' 59.9"$	$\Delta = 43' 47' 26.1"$ (RT)	$\Delta = 7' 29' 59.9"$	$\Delta = 6' 00' 00.1"$	$\Delta = 17' 34' 17.9"$ (LT)	$\Delta = 6' 00' 00.1"$
$Ls = 300.00'$	$D = 4' 59' 59.9"$	$Ls = 300.00'$	$D = 4' 59' 59.9"$	$Ls = 300.00'$	$Ls = 300.00'$	$D = 4' 00' 00.0"$	$Ls = 300.00'$
$LT = 200.18'$	$L = 279.64'$	$LT = 200.18'$	$L = 875.82'$	$LT = 200.18'$	$LT = 200.12'$	$L = 439.29'$	$LT = 200.12'$
$ST = 100.16'$	$R = 1,145.92'$	$ST = 100.16'$	$T = 460.55'$	$ST = 100.16'$	$ST = 100.10'$	$T = 221.38'$	$ST = 100.10'$
			$RO = 46.67'$			$R = 1,432.39'$	

BRIDGE DESCRIPTION  
 CONCRETE DECK WITH BST SURFACE  
 CONCRETE RAIL ON WEST BOUND  
 METAL GUARDRAIL ON WEST BOUND SIDE  
 CONCRETE JERSEY WALL EAST BOUND  
 CONCRETE COLUMNS  
 METAL BEAMS  
 CONCRETE END BENTS  
 CONCRETE WING WALLS

VERIZON BUSINESS  
 1000 SAINT ALBANS DRIVE, SUITE 300  
 RALEIGH, N.C. 27609

POWER  
 DUKE ENERGY CORPORATION  
 526 S. CHURCH STREET  
 PO BOX 1006, ECIOO  
 CHARLOTTE, N.C. 28202

GAS  
 PUBLIC SERVICE CO. OF NORTH CAROLINA  
 2451 SCHEFFLIN RD.  
 APEX, N.C. 27502



PI Sta 11+86.98	PI Sta 14+35.61	PI Sta 16+76.80
$\Delta = 6' 51' 25.1"$ (RT)	$\Delta = 116' 02' 17.0"$ (RT)	$\Delta = 38' 26' 13.9"$ (LT)
$D = 4' 05' 33.2"$	$D = 55' 37' 37.1"$	$D = 30' 09' 20.4"$
$L = 167.55'$	$L = 208.60'$	$L = 127.46'$
$T = 83.87'$	$T = 164.96'$	$T = 66.23'$
$R = 1,400.00'$	$R = 103.00'$	$R = 190.00'$

NOTE  
 1) SEE SHEET 6 FOR -L- PROFILE.  
 2) SEE SHEETS S-1 THROUGH S-7 FOR STRUCTURE PLANS.

REVISIONS

DC:JAN-2014 15x11  
 R:\Roadway\Projects\B4554\_rdy\_pah4.dgn  
 8/17/99

MATCH LINE TO SHEET S-1 STA 31+50.00

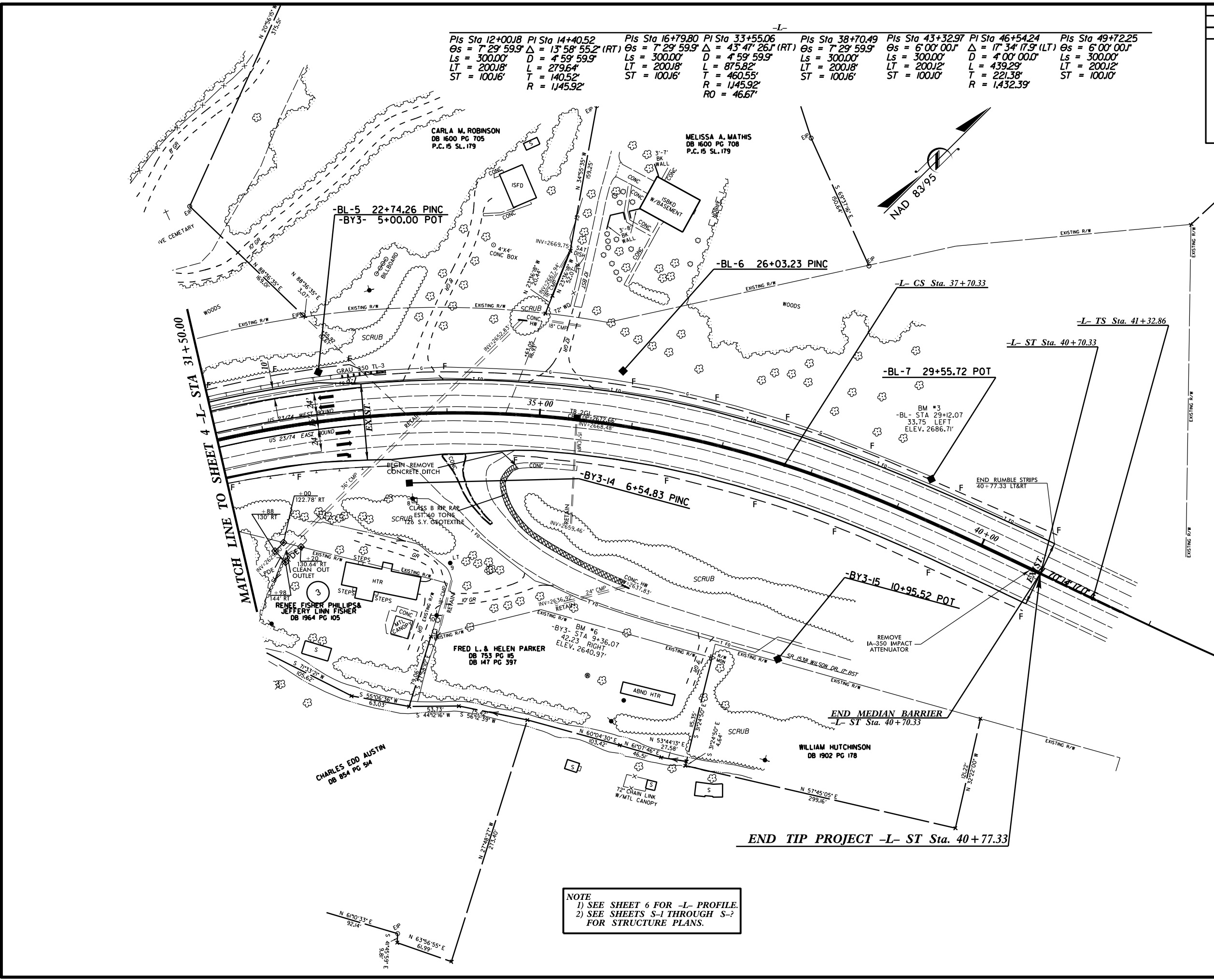
NOTE: PARCEL NO.1 REMOVED FROM PLANS



PROJECT REFERENCE NO.	SHEET NO.
B-4554	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

Pls Sta 12+00.18 PI Sta 14+40.52 $\theta_s = 7^\circ 29' 59.9''$ $\Delta = 13^\circ 58' 55.2''$ (RT) $L_s = 300.00'$ $D = 4^\circ 59' 59.9''$ $LT = 200.18'$ $L = 279.64'$ $ST = 100.16'$ $R = 1,45.92'$	Pls Sta 16+79.80 PI Sta 33+55.06 $\theta_s = 7^\circ 29' 59.9''$ $\Delta = 43^\circ 47' 26.1''$ (RT) $L_s = 300.00'$ $D = 4^\circ 59' 59.9''$ $LT = 200.18'$ $L = 875.82'$ $ST = 100.16'$ $R = 1,45.92'$ $RO = 46.67'$	Pls Sta 38+70.49 PI Sta 43+32.97 $\theta_s = 7^\circ 29' 59.9''$ $\Delta = 6^\circ 00' 00.0''$ (LT) $L_s = 300.00'$ $D = 4^\circ 00' 00.0''$ $LT = 200.18'$ $L = 439.29'$ $ST = 100.16'$ $R = 1,432.39'$	Pls Sta 46+54.24 PI Sta 49+72.25 $\theta_s = 6^\circ 00' 00.0''$ $\Delta = 17^\circ 34' 17.9''$ (LT) $L_s = 300.00'$ $D = 4^\circ 00' 00.0''$ $LT = 200.12'$ $L = 300.00'$ $ST = 100.10'$ $R = 1,432.39'$
--	---	--	---

REVISIONS  
 JANUARY 25, 2013 - RIGHT OF WAY REVISION PER SUBMITTAL DATED OCTOBER 9, 2013 - NAME AND DEED BOOK CHANGES TO PARCEL 3  
 OCTOBER 16, 2013 - RIGHT OF WAY REVISION



**NOTE**  
 1) SEE SHEET 6 FOR -L- PROFILE.  
 2) SEE SHEETS S-1 THROUGH S-? FOR STRUCTURE PLANS.

06\_JAN-2014 15:21  
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