



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits
(along with corresponding Water Quality Certifications)

September 29, 2018 Ver 3

Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

A. Processing Information

County (or Counties) where the project is located:*

Duplin

Is this project a public transportation project?*

Yes No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

Is this a NCDOT Project?*

Yes No

(NCDOT only) T.I.P. or state project number:

B-5534

WBS #*

55034.1.1

(for NCDOT use only)

1a. Type(s) of approval sought from the Corps:*

Section 404 Permit (wetlands, streams and waters, Clean Water Act)

Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

1b. What type(s) of permit(s) do you wish to seek authorization?*

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

1c. Has the NWP or GP number been verified by the Corps?*

Yes No

Nationwide Permit (NWP) Number:

12 - Utility Lines

NWP Numbers (for multiple NWPS):

List all NW numbers you are applying for not on the drop down list.

Regional General Permit (RGP) Number:

198200031 - NCDOT Bridges, Widening Projects 2015

RGP Numbers (for multiple RGPS):

List all RGP numbers you are applying for not on the drop down list.

1d. Type(s) of approval sought from the DWR:*

check all that apply

401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual Permit

401 Water Quality Certification - Express

Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?

*

For the record only for DWR 401 Certification:

Yes No

For the record only for Corps Permit:

Yes No

1f. Is this an after-the-fact permit application? *

Yes No

1g. 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

Yes No

Acceptance Letter Attachment

Click the upload button or drag and drop files here to attach document

B-5534 - RW - CF 07.pdf

63.76KB

FILETYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? *

Yes No

1j. Is the project located in a designated trout watershed? *

Yes No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

B. Applicant Information



1a. Who is the Primary Contact? *

NCDOT

1b. Primary Contact Email: *

gcashin@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6107

1d. Who is applying for the permit? *

Owner

(Check all that apply)

Applicant (other than owner)

1e. Is there an Agent/Consultant for this project? *

Yes No

2. Owner Information

2a. Name(s) on recorded deed: *

NCDOT

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address *

Street Address

1000 Birch Ridge Drive

Address Line 2

City

Raleigh

Postal / Zip Code

27610

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6107

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History



1. Project Information



1a. Name of project: *

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town:*

Pink Hill

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Latitude:*

35.057603
ex: 34.208504

Longitude:*

-77.822235
-77.796371

3. Surface Waters

3a. Name of the nearest body of water to proposed project:*

Burn Coat Creek

3b. Water Resources Classification of nearest receiving water:*

C; Sw

[Surface Water Lookup](#)

3c. What river basin(s) is your project located in?*

Cape Fear

3d. Please provide the 12-digit HUC in which the project is located.*

030300070205

[River Basin Lookup](#)

4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application.*

Project B-5534 proposes to replace Bridge No. 300082, which carries NC 11/111 over Burn Coat Creek. The project proposes to construct a new bridge with two 12-foot travel lanes and 8-foot paved shoulders immediately to the north of the existing structure. Traffic will be maintained on the existing bridge during construction. Following construction, the existing bridge will be removed.

The area surrounding the bridge is rural. Undeveloped forestland is in the immediate vicinity of the bridge and farms are located around the area. NC 11/111 is an important connection in eastern Duplin County, carrying buses, farm equipment, and other industrial traffic.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past?*

Yes No Unknown

4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

4f. List the total estimated acreage of all existing wetlands on the property:

7.4

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial)

458

4h. Explain the purpose of the proposed project:*

1	Bridge construction	P	Riverine Swamp Forest	WA & WB	Yes	Both	0.870 (acres)
1	Mechanized landclearing	P	Riverine Swamp Forest	WA & WB	Yes	Both	0.120 (acres)

2g. Total Temporary Wetland Impact

0.000

2g. Total Permanent Wetland Impact

0.990

2g. Total Wetland Impact

0.990

2h. Comments:

There will be 0.11 ac of hand clearing due to bridge construction as well as 0.10 ac of hand clearing due to utility relocations.

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.

"S." will be used in the table below to represent the word "stream".

	3a. Reason for impact* (?)	3b. Impact type *	3c. Type of impact *	3d. S. name *	3e. Stream Type* (?)	3f. Type of Jurisdiction *	3g. S. width* Average (feet)	3h. Impact length* (linear feet)
S1	Bridge construction	Temporary	Relocation	Burn Coat Creek	Perennial	Both	25 Average (feet)	69 (linear feet)

** All Perennial or Intermittent streams must be verified by DWR or delegated local government.

3i. Total jurisdictional ditch impact in square feet:

0

3i. Total permanent stream impacts:

0

3i. Total temporary stream impacts:

69

3i. Total stream and ditch impacts:

69

3j. Comments:

E. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: *

Three alternatives were examined during project development (see pp. 3-4 in the CE document). An offsite detour was ruled out because the secondary roads on the detour route would not be adequate to carry the primary route traffic currently using NC 11/111. The preferred was selected due to anticipated costs and impacts. Use of a temporary on-site detour was considered but ruled out due to potential wetland impacts, cost, construction time, and the likelihood the temporary fill would permanently impact the wetland anyway due to compaction. (p. 4 of the CE).

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: *

In an effort to minimize wetland impacts, roadway slope-stakes were reduced from 2:1 slopes to 1.5:1 slopes.

2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes No

2c. If yes, mitigation is required by (check all that apply):

DWR Corps

2d. If yes, which mitigation option(s) will be used for this project?

Mitigation bank Payment to in-lieu fee program Permittee Responsible Mitigation

4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.

Yes No

4b. Stream mitigation requested:

(linear feet)

4c. If using stream mitigation, what is the stream temperature:

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's RIBITS website.

4d. Buffer mitigation requested (DWR only):

(square feet)

4e. Riparian wetland mitigation requested:

(acres)

0.99

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

F. Stormwater Management and Diffuse Flow Plan (required by DWR)

*** Recent changes to the stormwater rules have required updates to this section . ***

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

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

No buffer rules are applicable in this part of the Cape Fear River Basin.

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? *

Yes No

Comments:

G. Supplementary Information

1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? *

Yes 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)? *

Yes 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.) *

Yes No

NEPA or SEPA Final Approval Letter

Click the upload button or drag and drop files here to attach document

FILETYPE MUST BE PDF

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? *

Yes No

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? *

Yes No

3b. 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.

4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? *

Yes No N/A

5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? *

Yes No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? *

Yes No

5d. Is another Federal agency involved? *

Yes No Unknown

5e. Is this a DOT project located within Division's 1-8? *

Yes No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? *

USFWS website, field surveys, NC Natural Heritage Program database.

Consultation Documentation Upload

Click the upload button or drag and drop files here to attach document

File type must be PDF

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? *

Yes No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? *

NMFS County Index, Essential fish habitat maps

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpoweb/>)

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)? *

Yes No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? *

Coordination with SHPO, April 2019, included in CE document.

7c. Historic or Prehistoric Information Upload

Click the upload button or drag and drop files here to attach document

File must be PDF

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain? *

Yes 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

Miscellaneous



Comments

Miscellaneous attachments not previously requested.

Click the upload button or drag and drop files here to attach document

File must be PDF or KMZ

Signature



*

By checking the box and signing below, I certify that:

- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");

- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name: *

Mack Christopher Rivenbark, III

Signature

A handwritten signature in black ink on a light gray rectangular background. The signature reads "Mack C. Rivenbark, III" in a cursive script.

Date

2/4/2020



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

TIM BAUMGARTNER
Director

January 30, 2020

Mr. Philip S. Harris, III, P.E.
Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

TIP Number B-5534 – Replace Bridge 82 on NC 111 over Burnt Coat Creek Creek, Duplin County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory wetland mitigation for the subject project. Based on the information received on January 24, 2020, the impacts are located in CU 03030007 of the Cape Fear River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Cape Fear 03030007 SICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.99	0	0	0	0

DMS commits to implementing sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies in accordance with the In-Lieu Fee Instrument dated July 28, 2010. 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 DMS.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,

James B. Stanfill
DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: B-5534



Electronically Transmitted
U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action Id. SAW-2015-00993 County: Duplin U.S.G.S. Quad: NC-KENANSVILLE

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Applicant:	<u>NCDOT-NEU, Eastern Manager</u> <u>Chris Rivenbark</u>	Agent:	<u>Ecological Engineering, LLP</u> <u>Heather Smith</u>
Address:	<u>1598 Mail Service Center</u> <u>Raleigh, NC 27610-3428</u>		<u>1151 SE Cary Parkway, Ste 101</u> <u>Carv, NC 27518</u>

Size (acres)	<u>20.28</u>	Nearest Town	<u>Pink Hill</u>
Nearest Waterway	<u>Persimmon Branch</u>	River Basin	<u>Northeast Cape Fear</u>
USGS HUC	<u>03030007</u>	Coordinates	Latitude: <u>34.9363493443223</u> Longitude: <u>-77.9332358015033</u>

Location description: The proposed bridge replacement project area (B-5534) is located west of Pink Hill along NC Hwy 111, in Duplin County, NC over Burn Coat Creek.

Indicate Which of the Following Apply:

A. Preliminary Determination

Based on preliminary information, there may be waters of the U.S. including wetlands on the above described project area . We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD. **Please refer to package dated April 20, 2015 and received July 6, 2015.**

B. Approved Determination

- There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S. including wetlands on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
 - We strongly suggest you have the waters of the U.S. including wetlands on your project area delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.
 - The waters of the U.S. including wetlands on your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.
 - The waters of the U.S. including wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on _____. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Brad Shaver at 910-251-4611 or Brad.E.Shaver@usace.army.mil.**

C. Basis For Determination: *The site contains both wetlands and streams. The wetlands have characteristics as defined in the 1987 Corps Delineation Manual and the appropriate regional supplement. The stream exhibits an ordinary high water mark and both ultimately drain to the Northeast Cape Fear River, a navigable water of the US.*

D. Remarks: The site was field verified during scoping on 4/28/2015.

E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers
 South Atlantic Division
 Attn: Jason Steele, Review Officer
 60 Forsyth Street SW, Room 10M15
 Atlanta, Georgia 30303-8801

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by _____.



It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.

Corps Regulatory Official:  _____ 

Date: 7/9/2015 Expiration Date: N/A

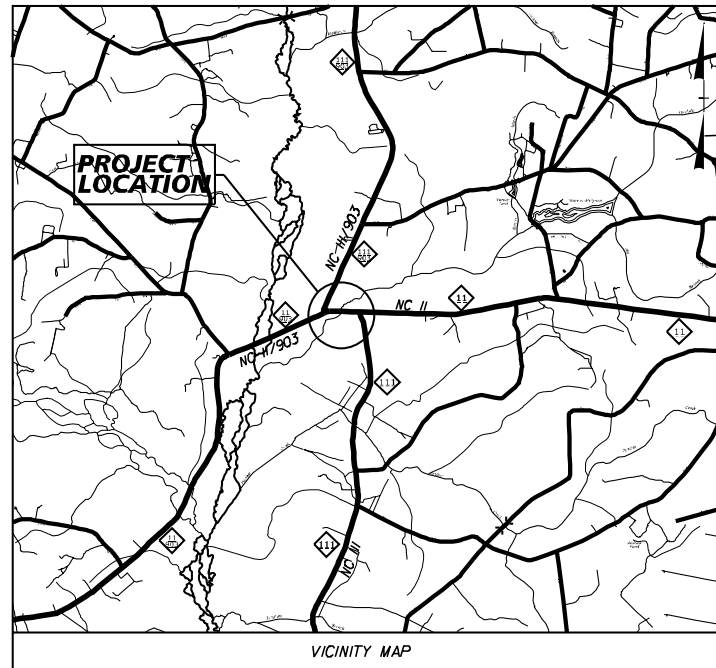
**cc: Ecological Engineering, Ed Hajnos
 NCDENR-DWR, Mason Herndon**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at <http://regulatory.usacesurvey.com/>.

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS					
(Version 2.08; Released April 2018)							
WBS Element: 55034.1.1		TIP No.: B-5534	County(ies): Duplin		Page 1 of 1		
General Project Information							
WBS Element:		55034.1.1	TIP Number: B-5534		Project Type: Bridge Replacement	Date: 9/30/2019	
NCDOT Contact:		Mason Herndon		Contractor / Designer:	Kimley-Horn		
Address:		Highway Division 3		Address:		421 Fayetteville Street	
		5501 Barbados Blvd.				Suite #600	
		Castle Hayne, NC, 28429				Raleigh, NC, 27601	
Phone:		(910) 341-2036		Phone:		(919) 653-6623	
Email:		mherndon@ncdot.gov		Email:		vance.blanton@kimley-horn.com	
City/Town:		Pink Hill		County(ies):		Duplin	
River Basin(s):		Cape Fear		CAMA County?		No	
Wetlands within Project Limits?		Yes					
Project Description							
Project Length (lin. miles or feet):		.303 miles	Surrounding Land Use:		Rural/Coastal		
Proposed Project			Existing Site				
Project Built-Up Area (ac.)		0.9	ac.		0.9	ac.	
Typical Cross Section Description:		2 @ 12' wide lanes w/ 8' paved shoulders and 6:1 side slopes Spans: 3 Arrangement: 30', 50', 25', 36" GIRDER DECK w/ 4' caps and 90 skew Bridge Length: 105'		Number of Span	Number of Spans: 2 Span Arrangement: 32'3 Bridge Length: 65'		
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 7600	Year: 2040		Existing: 6100	Year: 2020	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		<p>The bridge replacement on NC 11/111 conveys Burn Coat Creek from North to South and ultimately drains into the Northeast Cape Fear River. The existing bridge, overall length OAL = 65' and width 30' will be replaced with a bridge having an OAL = 105' and width = 30'. The new bridge is longer than the existing bridge to accommodate the spatial difference between the previous bridge location to the new location. The proposed bridge and roadway improvements minimized the existing overtopping condition and maintain a minimal transition between existing and new roadway.</p> <p>Runoff from the bridge is captured on the low side of the bridge in shoulder berm gutter and traffic bearing 1 GI's on either side of the road. The 18" pipe systems are designed to outfall (with rip rap outlet protection) outside of buffer zones 1 and 2.</p> <p>Burn Coat Creek is a FEMA stream that is shown on Flood Insurance Rate Map (FIRM) panel 370254-2563-K, dated 06/20/2018. A hydraulic analysis on Burn Coat Creek was performed to assess the potential flood level increases associated with this project. Based on this analysis, the proposed bridge replacement project was shown to have a maximum base flood level increase of 0.1' after the bridge and a maximum decrease in base flood elevation of 0.1' before the bridge. This project qualifies for an MOA Type 2d.</p> <p>Additionally, rock plating has been used on slopes of 1.5:1 to prevent increased impacts to the existing wetlands.</p>					
Waterbody Information							
Surface Water Body (1):		Burn Coat Creek		NCDWR Stream Index No.:		18-74-17	
NCDWR Surface Water Classification for Water Body			Primary Classification:	Class C			
			Supplemental Classification:	Swamp Waters (SW)			
Other Stream Classification:		None					
Impairments:		None					
Aquatic T&E Species?		No Comments:					
NRTR Stream ID:						Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?		Yes	Deck Drains Discharge Over Buffer?		No	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?		No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)							

09/08/19

TIP PROJECT: B-5534



RW PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DUPLIN COUNTY

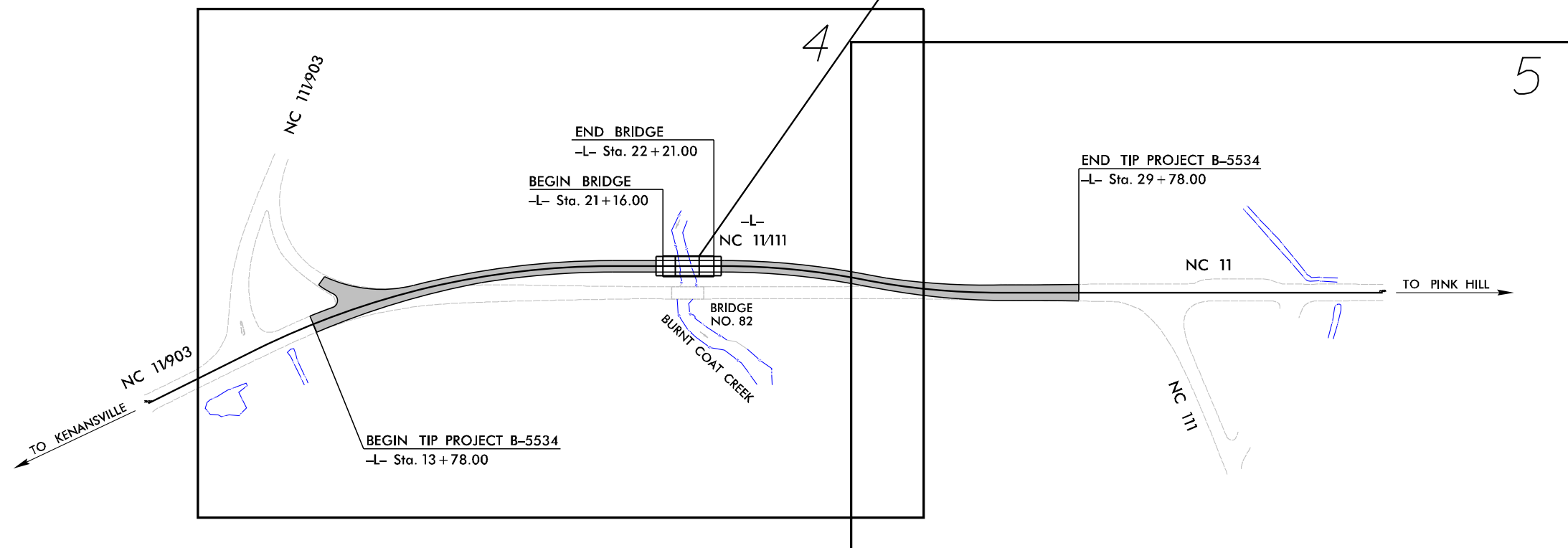
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5534	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
55034.1.1		P.E.	
55034.2.1		RW & UTILITIES	

PERMIT DRAWING
SHEET 1 OF 7

LOCATION: BRIDGE 82 OVER BURNT COAT CREEK ON NC 111
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

WETLAND AND SURFACE WATER
IMPACTS PERMIT
SEPTEMBER 3, 2019

SITE 1

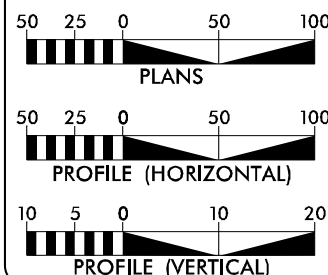


THIS PROJECT IS NOT WITHIN A MUNICIPAL BOUNDARY
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:

GRAPHIC SCALES



DESIGN DATA

AADT 2020 = 6,100
AADT 2040 = 7,600
K = 9%
D = 55%
T = 11%*
V = 60 MPH
* (TTST 8% + DUAL 3%)
FUNCTIONAL RURAL MAJOR
CLASSIFICATION: COLLECTOR
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5534 = 0.283 MILES
LENGTH STRUCTURES TIP PROJECT B-5534 = 0.020 MILES
TOTAL LENGTH TIP PROJECT B-5534 = 0.303 MILES

PLANS PREPARED FOR
THE NCDOT BY:

Kimley Horn

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 8, 2019

LETTING DATE:
JUNE 16, 2020

JEFFREY W. MOORE, P.E.
PROJECT ENGINEER

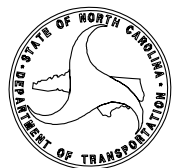
SETH DENNEY, P.E.
PROJECT DESIGN ENGINEER

DAVID STUTTS, P.E.
STRUCTURES MANAGEMENT UNIT
PROJECT ENGINEER
PCE/PROGRAM MANAGEMENT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



\$FILE\$

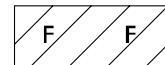
\$DATE\$

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

EXIST ROADWAY FILL
EXCAVATION, TYP.
(SEE CROSS-SECTIONS)

-L-

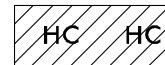
PI Sta 16+37.50 Δ = 26° 22' 00.6" (RT) D = 3' 28" 20.9" L = 759.3' T = 386.50' R = 1,650.00' SE = 0.04 RO = 108'	PI Sta 23+85.79 Δ = 10° 59' 17.3" (RT) D = 3' 49' 11.0" L = 287.67' T = 144.28' R = 1,500.00' SE = 0.04 RO = 108'	PI Sta 26+73.45 Δ = 10° 59' 17.3" (LT) D = 3' 49' 11.0" L = 287.67' T = 144.28' R = 1,500.00' SE = 0.04 RO = 108'
---	--	--



DENOTES FILL IN
WETLAND



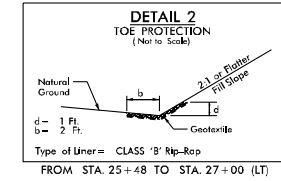
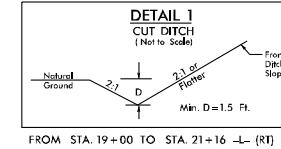
DENOTES MECHANIZED
CLEARING



DENOTES HAND
CLEARING

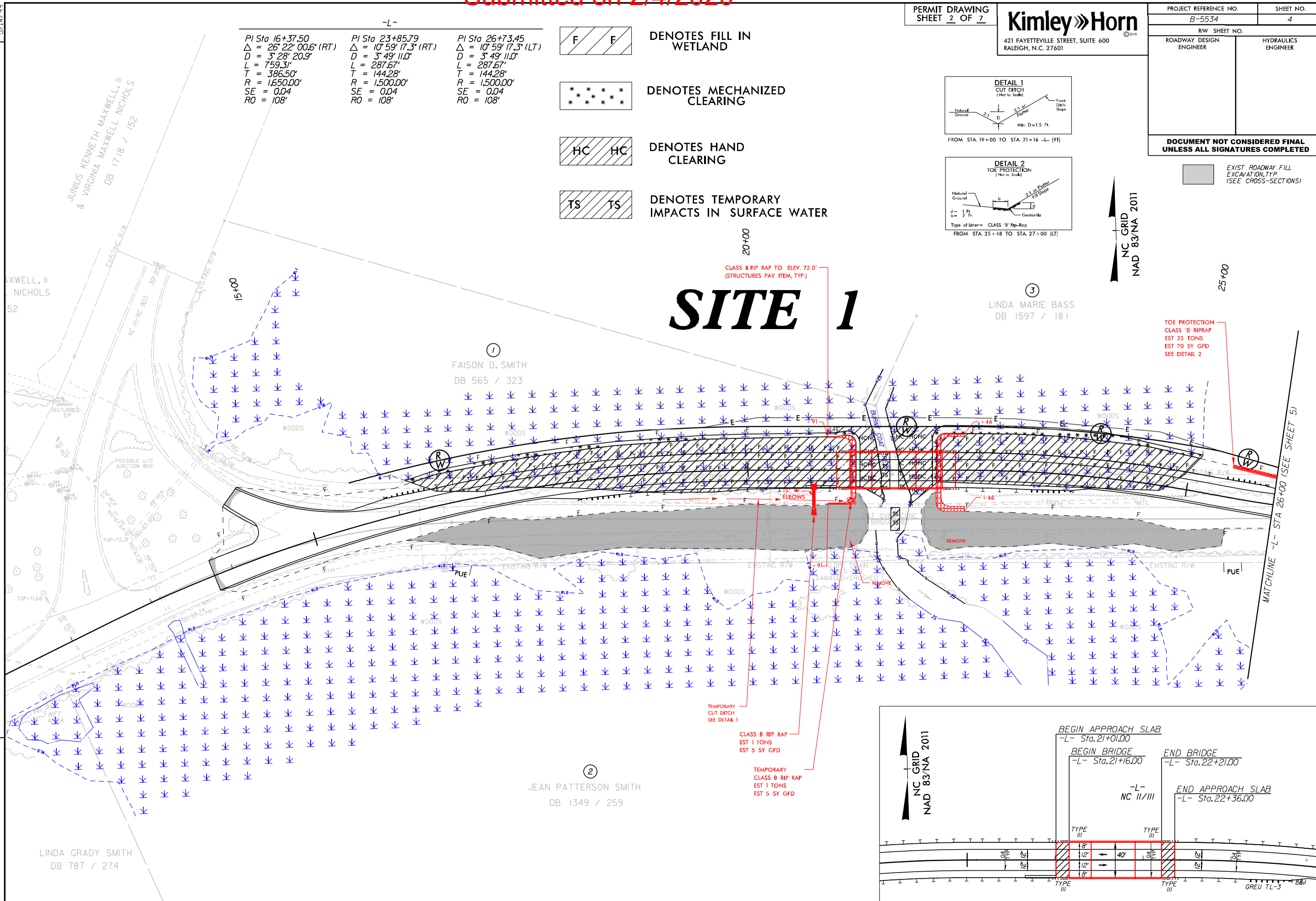


DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



NC GRID
NAD 83/NA 2011

SITE 1



LINDA MARIE BASS
DB 1597 / 181

FAISON D. SMITH
DB 565 / 323

JEAN PATTERSON SMITH
DB 1349 / 259

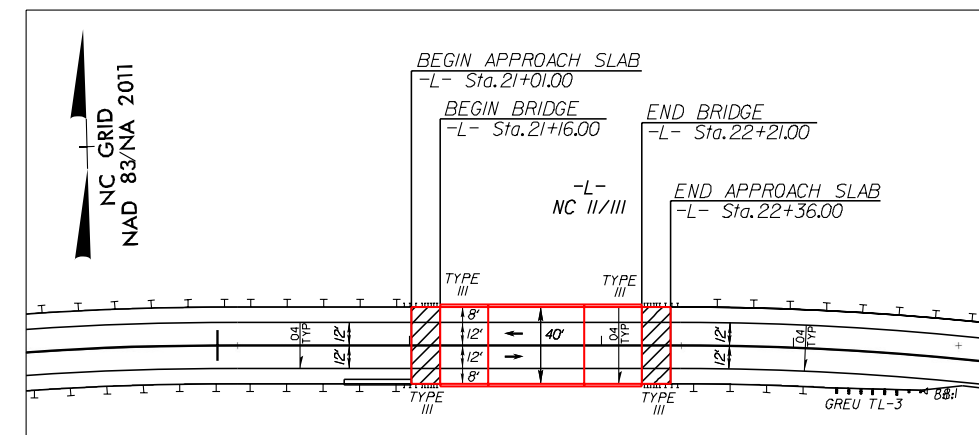
LINDA GRADY SMITH
DB 787 / 274

TOE PROTECTION
CLASS 'B' RIPRAP
EST 35 TONS
EST 70 SY GFD
SEE DETAIL 2

CLASS II RIP RAP TO ELEV. 72.0'
(STRUCTURES PAY ITEM, TYP.)

TEMPORARY CLASS B RIP RAP
EST 1 TONS
EST 5 SY GFD

TEMPORARY CLASS B RIP RAP
EST 1 TONS
EST 5 SY GFD



SEE SHEET 6 FOR -L- PROFILE

DETAIL SHOWING BRIDGE / PAVEMENT RELATIONSHIP

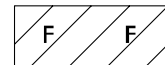
REVISIONS

DATE

DATE

-L-

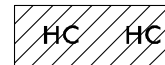
<p>PI Sta 16+37.50 Δ = 26° 22' 00.6" (RT) D = 3' 28" 20.9" L = 759.3' T = 386.50' R = 1,650.00' SE = 0.04 RO = 108'</p>	<p>PI Sta 23+85.79 Δ = 10° 59' 17.3" (RT) D = 3' 49' 11.0" L = 287.67' T = 144.28' R = 1,500.00' SE = 0.04 RO = 108'</p>	<p>PI Sta 26+73.45 Δ = 10° 59' 17.3" (LT) D = 3' 49' 11.0" L = 287.67' T = 144.28' R = 1,500.00' SE = 0.04 RO = 108'</p>
---	--	--



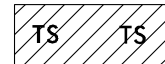
DENOTES FILL IN WETLAND



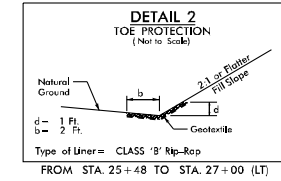
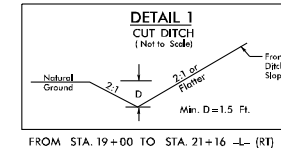
DENOTES MECHANIZED CLEARING



DENOTES HAND CLEARING



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



NC GRID
NAD 83/NA 2011

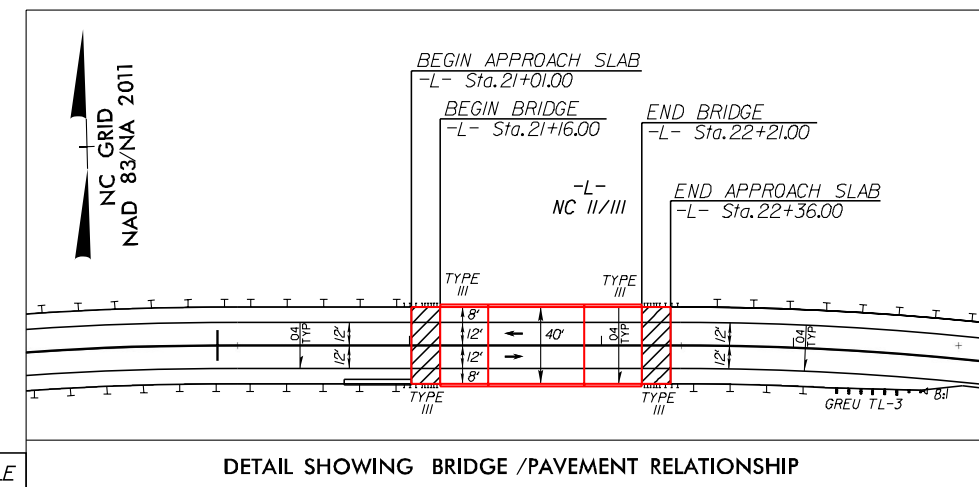
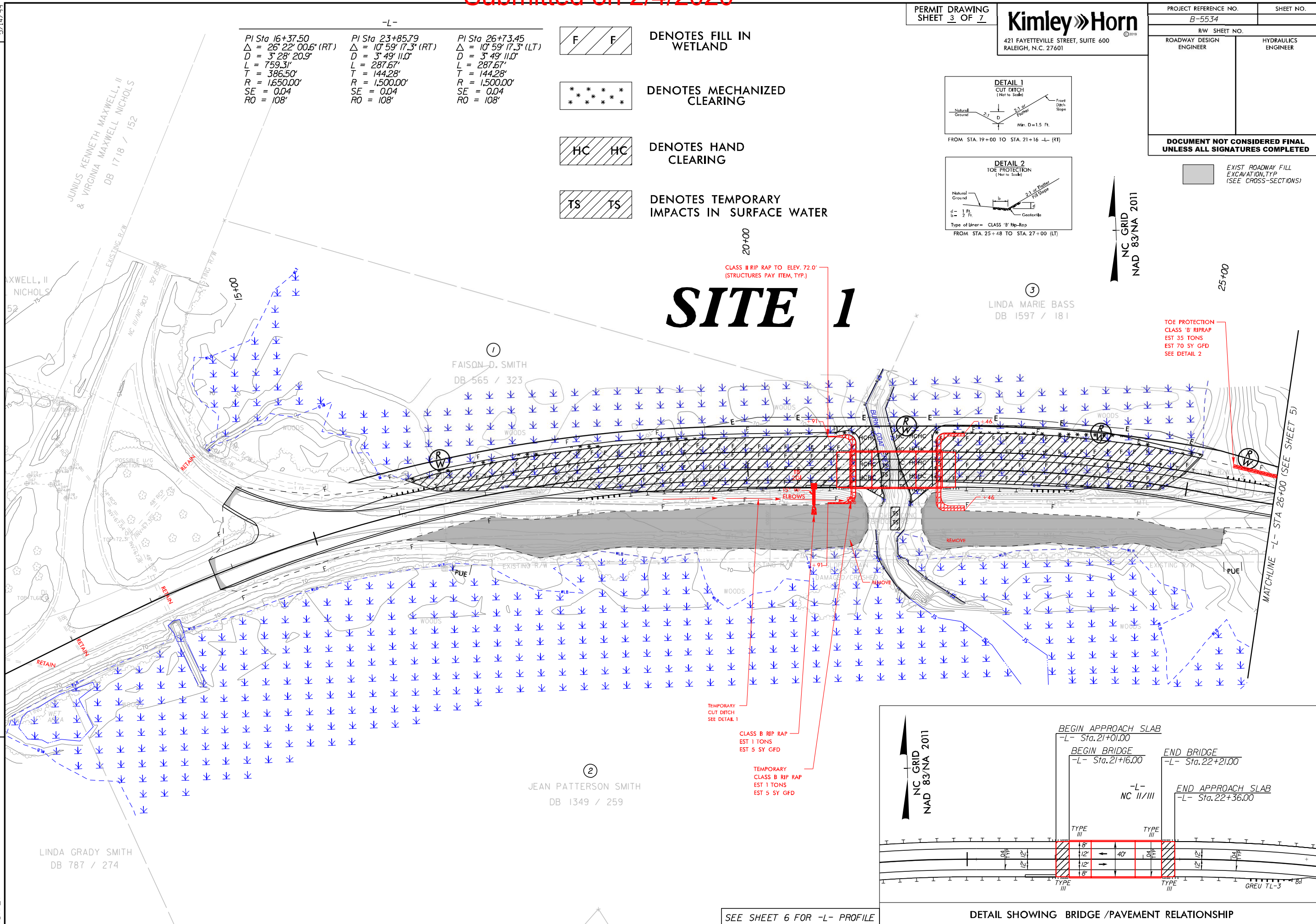
SITE 1

CLASS II RIP RAP TO ELEV. 72.0'
(STRUCTURES PAY ITEM, TYP.)

LINDA MARIE BASS
DB 1597 / 181

TOE PROTECTION
CLASS 'B' RIPRAP
EST 35 TONS
EST 70 SY GFD
SEE DETAIL 2

REVISIONS



SEE SHEET 6 FOR -L- PROFILE

DETAIL SHOWING BRIDGE / PAVEMENT RELATIONSHIP

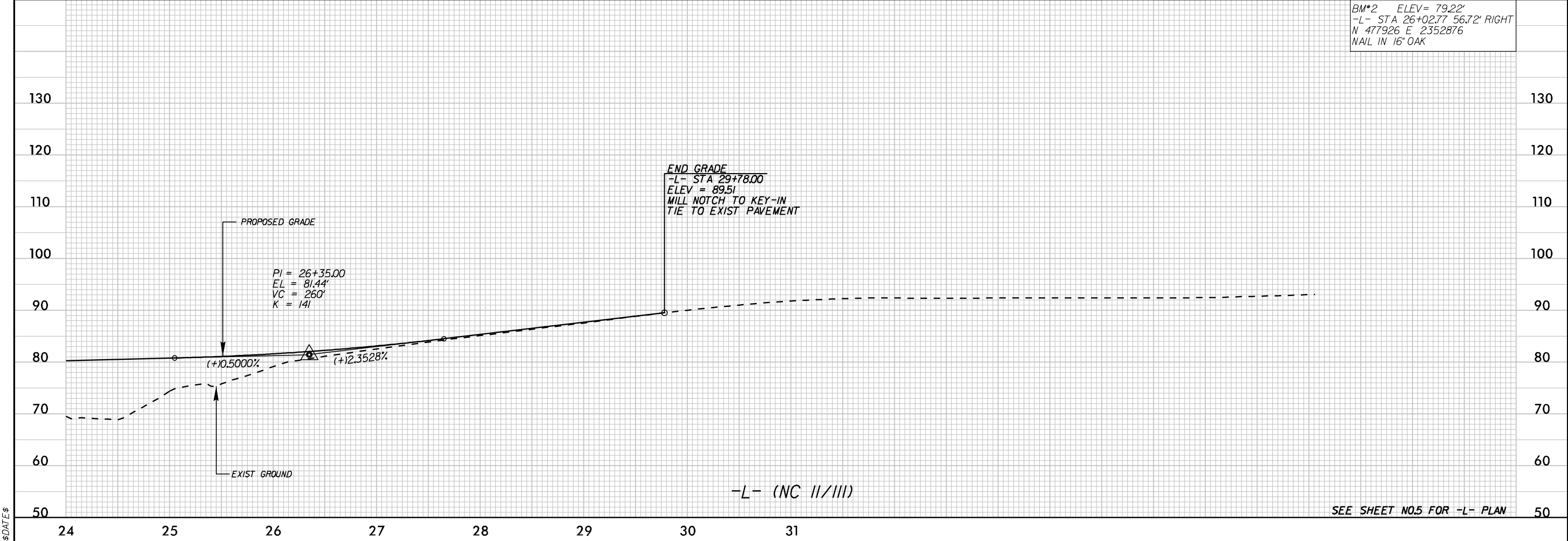
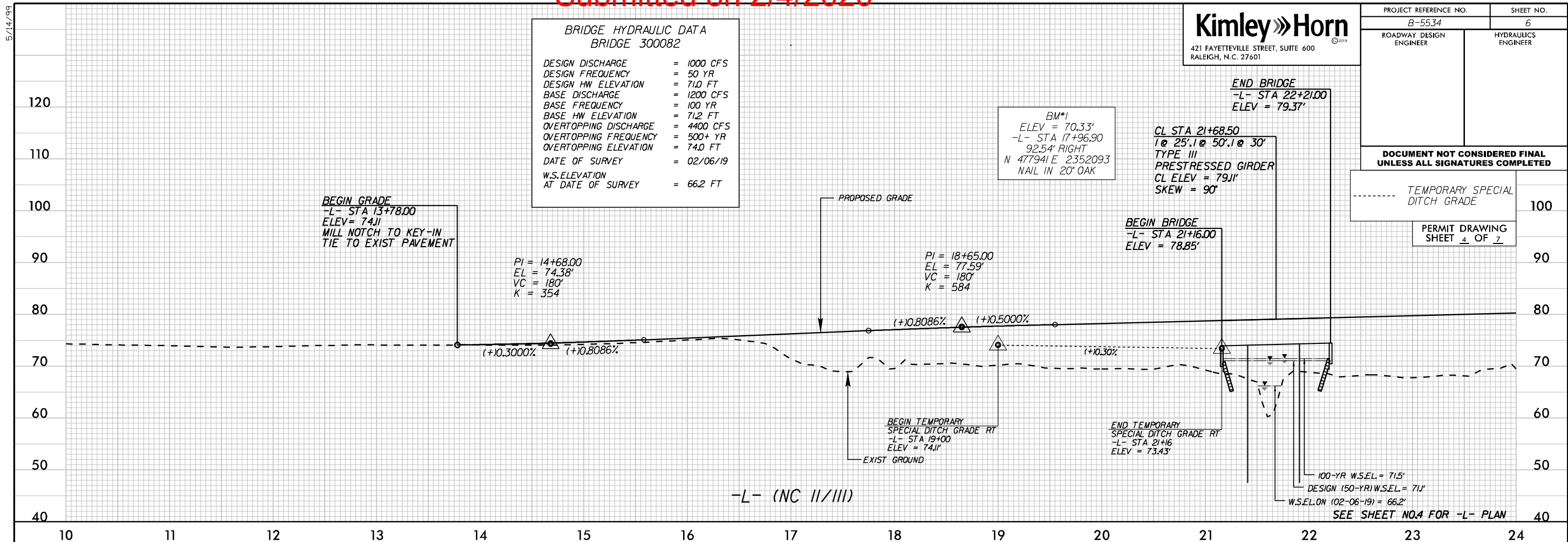
PROJECT REFERENCE NO. B-5534	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

TEMPORARY SPECIAL DITCH GRADE
 PERMIT DRAWING SHEET 4 OF 7

**BRIDGE HYDRAULIC DATA
 BRIDGE 300082**

DESIGN DISCHARGE	= 1000 CFS
DESIGN FREQUENCY	= 50 YR
DESIGN HW ELEVATION	= 71.0 FT
BASE DISCHARGE	= 1200 CFS
BASE FREQUENCY	= 100 YR
BASE HW ELEVATION	= 71.2 FT
OVERTOPPING DISCHARGE	= 4400 CFS
OVERTOPPING FREQUENCY	= 500+ YR
OVERTOPPING ELEVATION	= 74.0 FT
DATE OF SURVEY	= 02/06/19
W.S. ELEVATION AT DATE OF SURVEY	= 66.2 FT

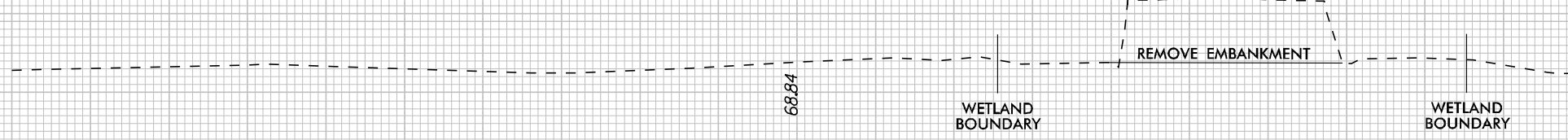
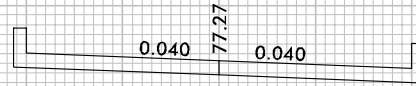


5/14/19

\$DATE\$

85
80
75
70
65
60

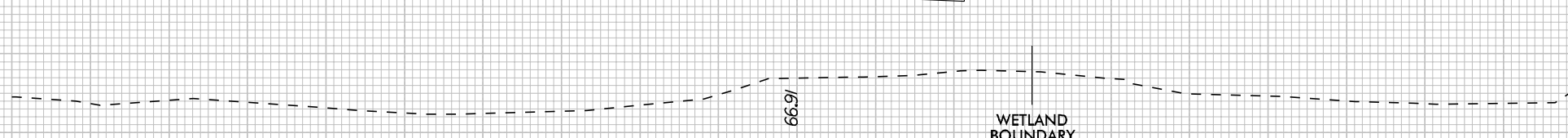
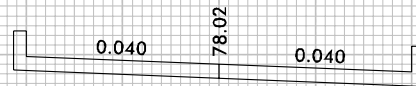
85
80
75
70
65
60



22+00.00

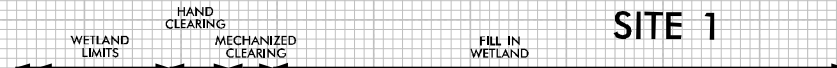
80
75
70
65
60

80
75
70
65
60



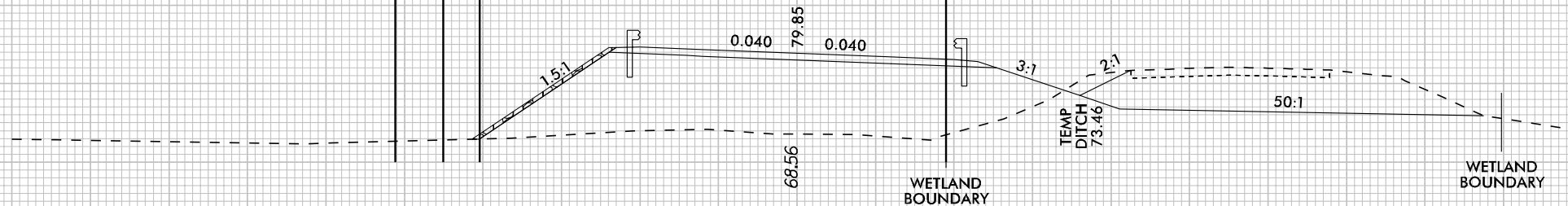
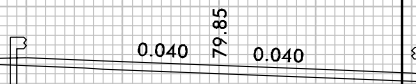
21+50.00

SITE 1



80
75
70
65
60

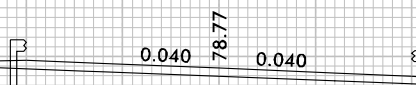
80
75
70
65
60



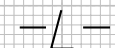
21+16.00

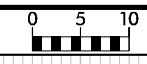
80
75
70
65
60

80
75
70
65
60

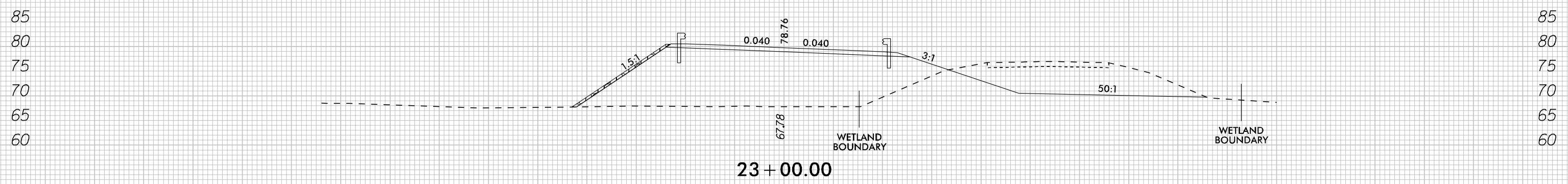
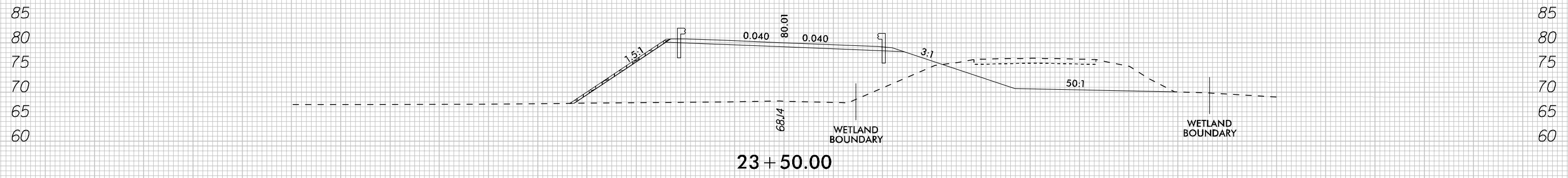


21+00.00

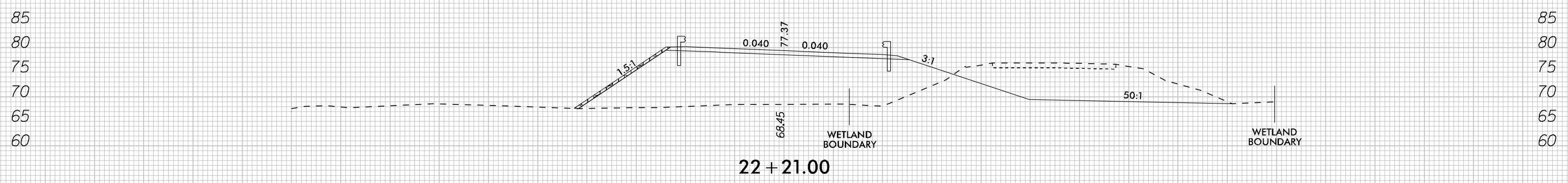
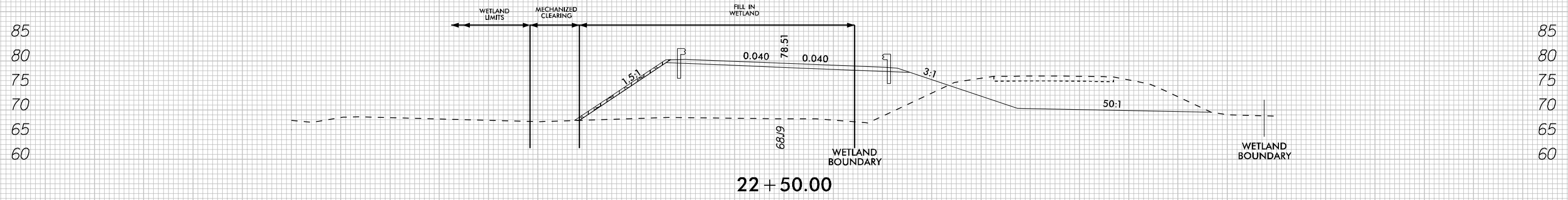




8/23/95



SITE 1



DATE\$

WETLAND AND SURFACE WATER IMPACTS 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	15+87.74 to 25+10.60	105' BRIDGE	0.87			0.12	0.11		0.02		69	
TOTALS*:			0.87			0.12	0.11		0.02	0	69	0

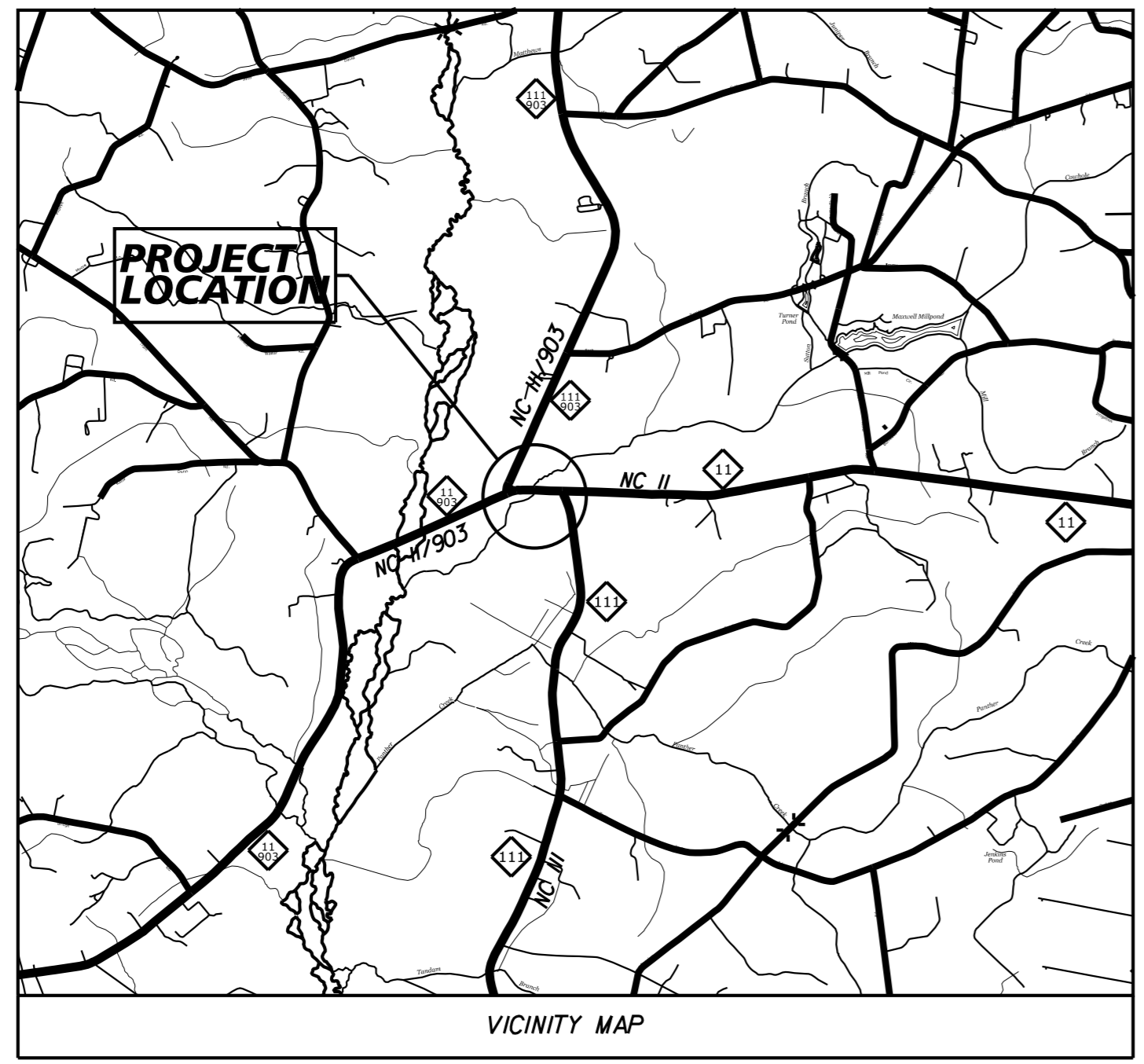
*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 09/03/2019
 Duplin County
 B-5534
 55034.1.1
 SHEET 7 OF 7

T.I.P. NO.	SHEET NO.
B-5534	UE-1

TIP PROJECT: B-5534



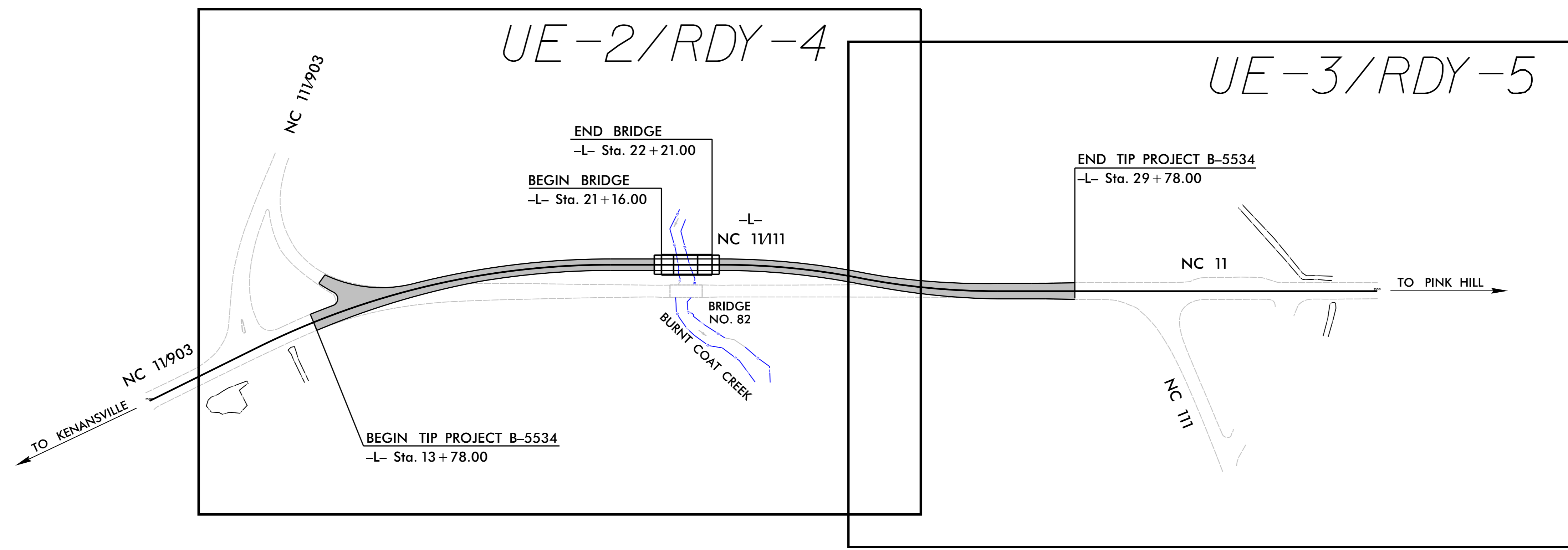
RW PLANS

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

EAU UTILITY PERMIT DRAWING DUPLIN COUNTY

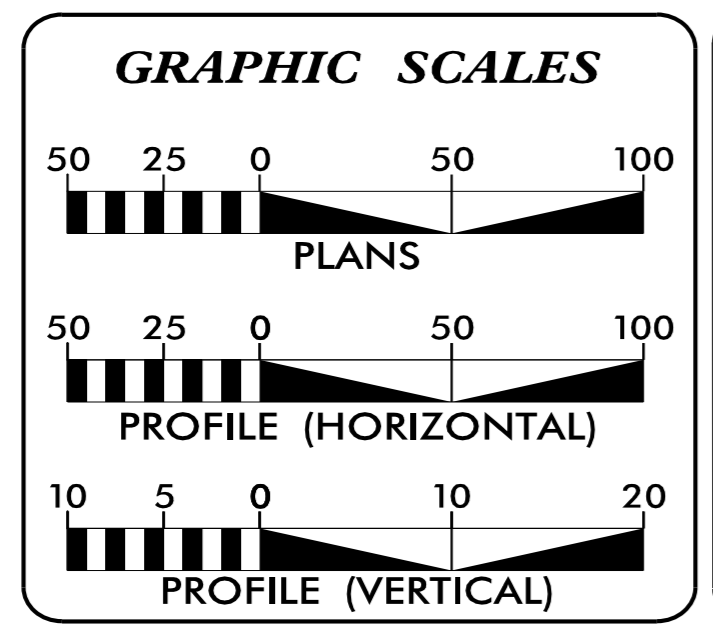
LOCATION: BRIDGE 82 OVER BURNT COAT CREEK ON NC 111

TYPE OF WORK: RELOCATION OF POWER, COMMUNICATION, AND WATERLINES



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UE-1	TITLE SHEET
UE-2 / UE-3	UTILITY ENVIRONMENTAL PLANSHEETS

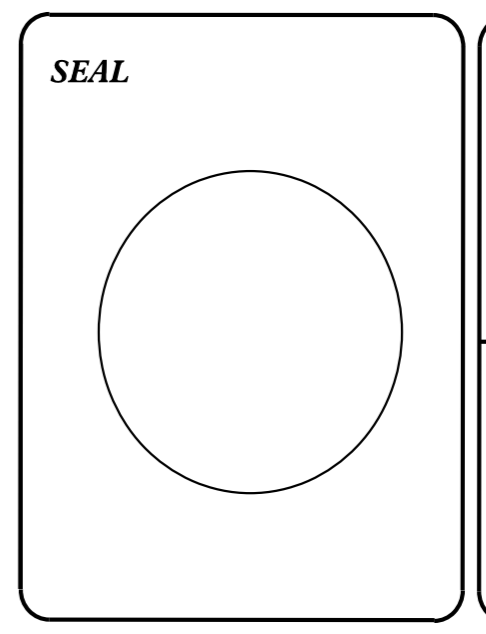
WATER AND SEWER OWNERS ON PROJECT

(A) WATERSANITARY SEWER: DUPLIN COUNTY
 (B) ELECTRIC: DUKE ENERGY
 (C) FIBER: CENTURYLINK
 (D) TELEPHONE: AT&T
 (E) CABLE: CHARTER

PREPARED IN THE OFFICE OF

Kimley » Horn

JEFFERY W. MOORE, P.E. PROJECT DESIGN ENGINEER
 SETH DENNEY, P.E. STRUCTURES MANAGEMENT UNIT
 VANCE BLANTON, P.E. HYDRAULIC ENGINEER



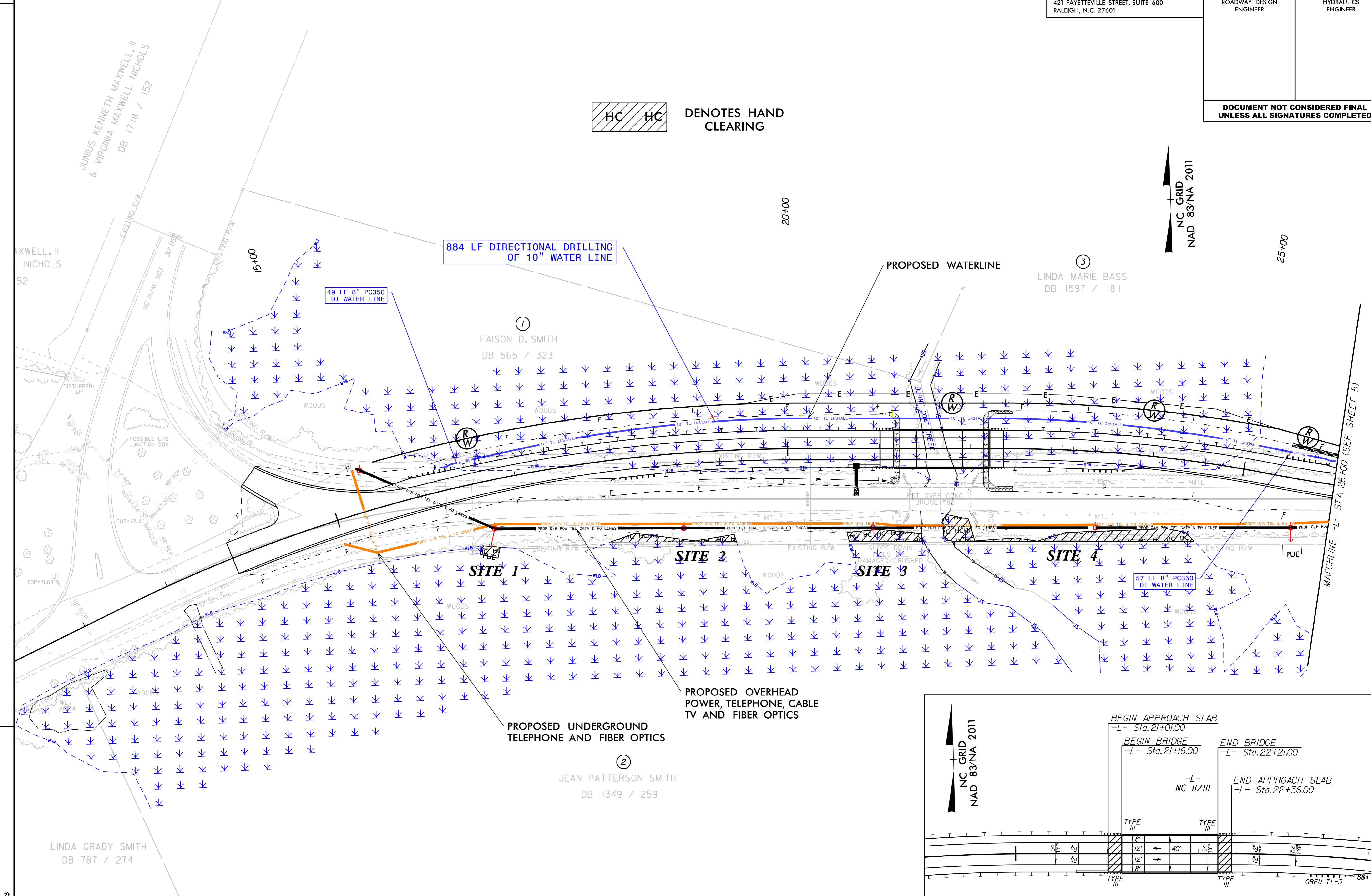
**DIVISION OF HIGHWAYS
UTILITIES UNIT**
 1555 MAIL SERVICES CENTER
 RALEIGH, NC 27699-1555
 PHONE (919) 707-6690
 FAX (919) 250-4151

NABIL HAMDAN UTILITIES REGIONAL ENGINEER
 KELVIN MARTIN, E.I. UTILITIES ENGINEER
 KYLE PLEASANT UTILITIES AREA COORDINATOR
 LARRY JAMES UTILITIES COORDINATOR

PROJECT REFERENCE NO. B-5534	SHEET NO. UE-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

5/14/99

REVISIONS



HC HC DENOTES HAND CLEARING

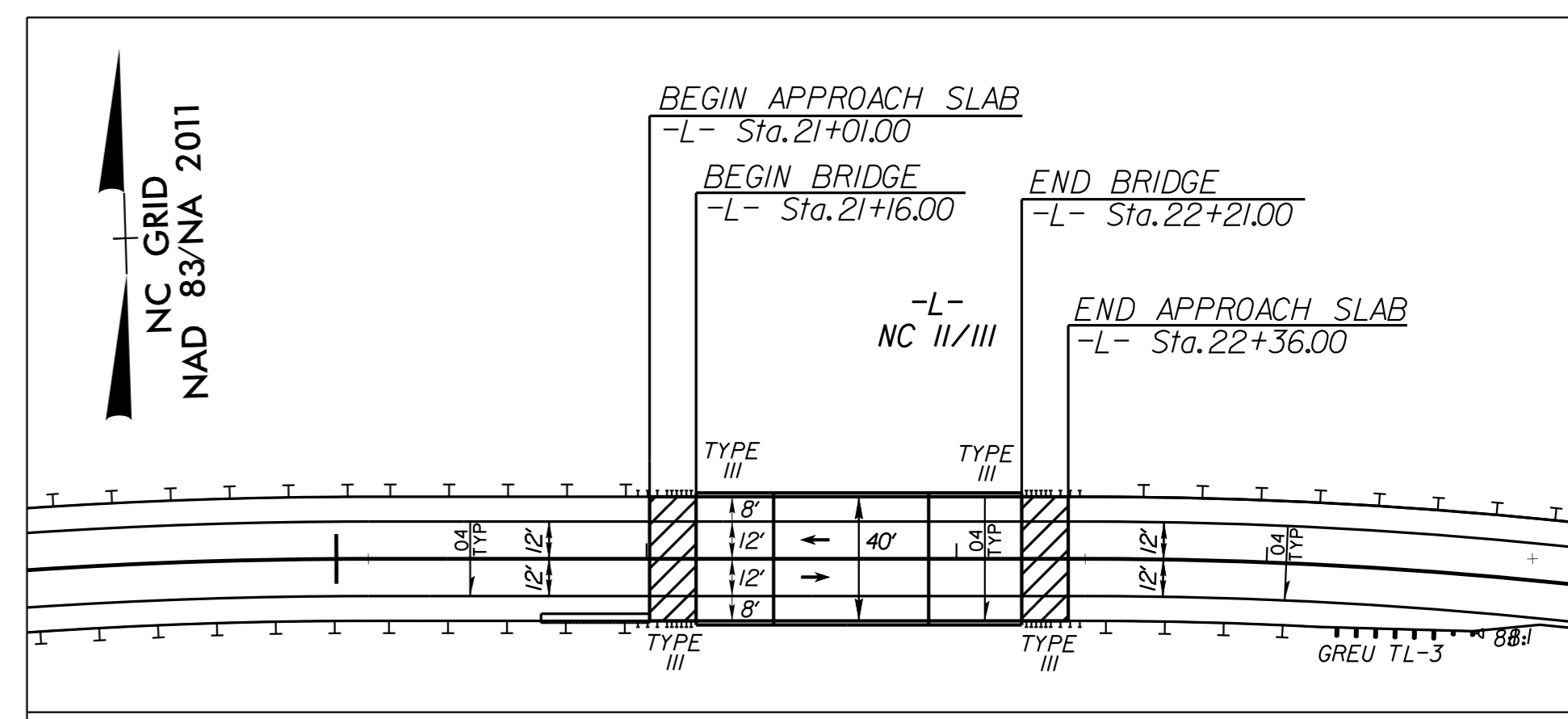
NC GRID
NAD 83/NA 2011

NC GRID
NAD 83/NA 2011

\$DATE\$

SEE SHEET 6 FOR -L- PROFILE

DETAIL SHOWING BRIDGE /PAVEMENT RELATIONSHIP



JUNIUS KENNETH MAXWELL, II
& VIRGINIA MAXWELL NICHOLS
DB 1718 / 152

MAXWELL, II
NICHOLS
52

884 LF DIRECTIONAL DRILLING
OF 10" WATER LINE

49 LF 8" PC350
DI WATER LINE

FAISON D. SMITH
DB 565 / 323

LINDA MARIE BASS
DB 1597 / 181

SITE 1

SITE 2

SITE 3

SITE 4

57 LF 8" PC350
DI WATER LINE

PROPOSED UNDERGROUND
TELEPHONE AND FIBER OPTICS

PROPOSED OVERHEAD
POWER, TELEPHONE, CABLE
TV AND FIBER OPTICS

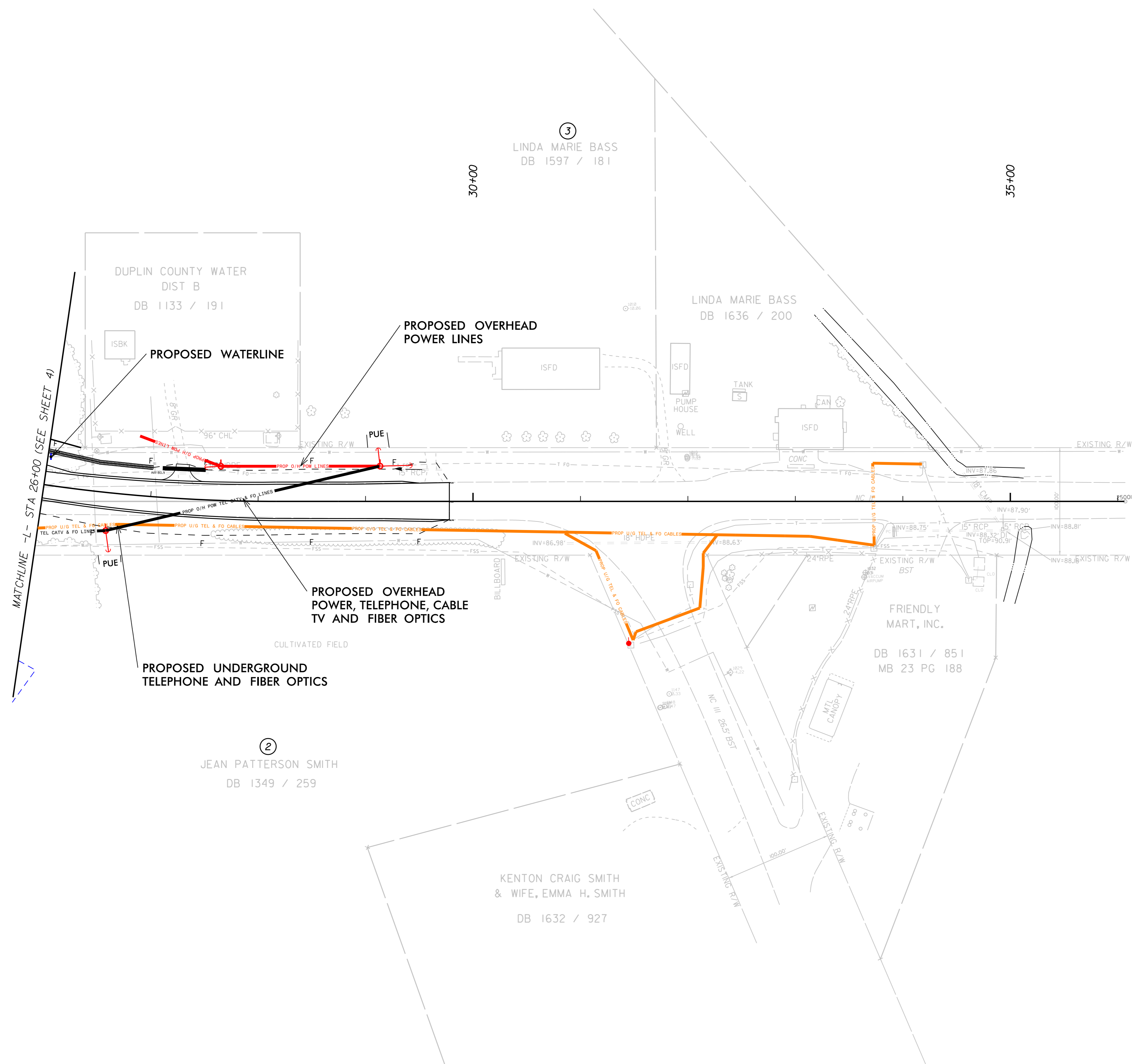
JEAN PATTERSON SMITH
DB 1349 / 259

LINDA GRADY SMITH
DB 787 / 274

MATCHLINE -L- STA 26+00 (SEE SHEET 5)

5/14/99

PROJECT REFERENCE NO. B-5534	SHEET NO. UE-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



\$DATE\$

SEE SHEET 6 FOR -L- PROFILE

WETLAND AND SURFACE WATER IMPACTS 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	16+42 to 16+73	COMMUNICATION & POWER RELOCATION					< 0.01					
2	17+94 to 19+40	COMMUNICATION & POWER RELOCATION					0.02					
3	20+64 to 21+48	COMMUNICATION & POWER RELOCATION					0.02					
4	21+69 to 24+57	COMMUNICATION & POWER RELOCATION					0.06					
TOTALS*:							0.10			0	0	0

*Rounded totals are sum of actual impacts
 NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 11/27/2019
 Duplin County
 B-5534
 55034.1.1
 SHEET 4 OF 4