



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: *

Sampson

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-4635

WBS # *

38446.1.2

(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

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-4635 - RW - CF 06.pdf

67.65KB

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: *

jldilday@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx
(919)707-6111

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)707-6111

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: *

Bridge 9 over South River Overflow on US 13 (B-4635) Central

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Falcon

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: *

Longitude: *

35.155671

-78.639754

ex: 34.208504

-77.796371

3. Surface Waters

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

South River

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. *

030300060105

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: *

Land use in the project vicinity is primarily forestland interspersed with agricultural areas and residential development along roadways.

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:

4.9 acres

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

(intermittent and perennial)

0

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

To replace a functionally obsolete and structurally deficient bridge.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: *

This project involves replacing the 137-foot, 8-span bridge with a 169-foot, 3-span bridge on existing alignment using an on-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.

4j. Please upload project drawings for the proposed project.

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

B4635 utilities combined.pdf

1.36MB

B4635_Permit Drawings_20190828.pdf

5.33MB

File type must be pdf

5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? *

☒ Yes

☐ No

☐ Unknown

Comments:

5b. If the Corps made a jurisdictional determination, what type of determination was made? *

☐ Preliminary ☐ Approved ☒ Not Verified ☐ Unknown ☐ N/A

Corps AID Number:

Example: SAW-2017-99999

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known): Tina Sekula
Agency/Consultant Company: EEE Consulting (now VHB)
Other:

5d1. Jurisdictional determination upload

Click the upload button or drag and drop files here to attach document
File type must be PDF

6. Future Project Plans

6a. Is this a phased project? *

☐ Yes ☒ No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with 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.

"W." will be used in the table below to represent the word "wetland".

2a. Site # * (?)	2a1 Reason * (?)	2b. Impact type * (?)	2c. Type of W. *	2d. W. name *	2e. Forested *	2f. Type of Jurisdiction * (?)	2g. Impact area *
WB	Roadway Fill	P	Riverine Swamp Forest	WB	Yes	Both	0.100 (acres)
WA	Roadway Fill	P	Riverine Swamp Forest	WA	Yes	Both	0.080 (acres)
WE	Roadway Fill	P	Riverine Swamp Forest	WE	Yes	Both	0.210 (acres)
WF	Roadway Fill	P	Riverine Swamp Forest	WF	Yes	Both	0.020 (acres)
WB	Impervious Dike	T	Riverine Swamp Forest	WB	Yes	Both	0.020 (acres)
WA	Impervious Dike	T	Riverine Swamp Forest	WA	Yes	Both	0.020 (acres)
WE	Temp. Fill	T	Riverine Swamp Forest	WE	Yes	Both	0.140 (acres)
WF	Temp. Fill	T	Riverine Swamp Forest	WF	Yes	Both	0.070 (acres)
WE	Excavation	P	Riverine Swamp Forest	WE	Yes	Both	0.020 (acres)
WF	Excavation	P	Riverine Swamp Forest	WF	Yes	Both	0.090 (acres)

2g. Total Temporary Wetland Impact

0.250

2g. Total Permanent Wetland Impact

0.520

2g. Total Wetland Impact

0.770

2h. Comments:

There will be 0.3 acre of hand clearing in wetlands for the replacement structure and onsite detour. There will be an additional 1.15 acres of hand clearing due to relocation of electrical transmission lines, however much of this area is not forested. No stream was identified at the bridge crossing. There will be 0.06 acre of temporary fill in the hand clearing areas for erosion control measures.

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: *

The replacement bridge will be approximately 32 feet longer, the proposed bridge will have 3 spans as opposed to the 8 spans the current bridge has. The detour bridge was lengthened to reduce impacts to wetland. The bridge is being replaced on existing alignment to avoid greater permanent wetland impact.

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

NCDOT Best Management Practices for Construction and Maintenance Activities will be implemented. Slopes in wetlands will be at 3:1.

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)

0

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)

0

4e. Riparian wetland mitigation requested:

(acres)

0.52

4f. Non-riparian wetland mitigation requested:

(acres)

0

4g. Coastal (tidal) wetland mitigation requested:

(acres)

0

4h. Comments

6. Buffer mitigation (State Regulated Riparian Buffer Rules) - required by DWR

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation? If yes, you must fill out this entire form - please contact DWR for more information.

☐ Yes ☒ No

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:

This project is not within a protected buffer 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

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

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? *

N.C. Natural Heritage Program database; USFWS-Raleigh Field Office website; biological surveys for protected species listed for Sampson County, which include red-cockaded woodpecker and pondberry. Habitat for pondberry exists within the study area, however no specimens were observed during surveys updated on June 4, 2019. All other species received biological conclusions of "No Effect", due to habitat not being present. There were no bald eagles nests observed within 660 feet of the project area on 9/15/2017.

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

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? *

SEPA documentation

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

Mack C. Rivenbark, III

Date

9/20/2019



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

TIM BAUMGARTNER
Director

September 10, 2019

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:

B-4635, Replace Bridge 9 over the South River Overflow on US 13, Sampson 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 supplied by you on September 10, 2019, the impacts are located in CU 03030006 of the Cape Fear River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Cape Fear 03030006 SICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.52	0	0	0	0

*Some of the stream and/or wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

The impacts and associated mitigation needs were under projected by the NCDOT in the 2019 impact data. DMS will commit to implement sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of 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 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-4635





North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 2.08; Released April 2018)

WBS Element: 38446.1.2		TIP No.: B-4635		County(ies): SAMPSON		Page 1 of 1	
General Project Information							
WBS Element:		38446.1.2		TIP Number: B-4635		Project Type: Bridge Replacement	
NCDOT Contact:		Structures Management Unit/ Dan Duffield PE		Contractor / Designer:		Steve Bondor	
	Address:	1020 Birch Ridge Drive Room #16 Raleigh NC 27610			Address:	Dewberry 2610 Wycliff Rd Suite 410 Raleigh NC 27607	
	Phone:	(919) 707-6611			Phone:	919-636-6334	
	Email:	dcduffield@ncdot.gov			Email:	sbondor@dewberry.com	
City/Town:				County(ies):		Sampson	
River Basin(s):		Cape Fear		CAMA County?		No	
Wetlands within Project Limits?		Yes					
Project Description							
Project Length (lin. miles or feet):		0.3 mi		Surrounding Land Use:		Woods/Rural	
		Proposed Project		Existing Site			
Project Built-Up Area (ac.)		1.5 ac.		1.0 ac.			
Typical Cross Section Description:		12' travel lanes with 8'-0" shoulders. 40'-0" clear roadway with 0.02 cross slope normal crown. Detour - 11' travel lanes with varying shoulders between 4'-10'.		0.02 cross slope with 11' travel lanes			
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 6104		Year: 2039		Existing: 4184	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		B-4635 involves replacement of existing bridge structure number 810009 on US 13 over South River in Sampson County. The existing bridge is overall in length 139' with reinforced concrete caps with timber piles with steel crutch bents. The proposed bridge is three span @55' with 36" girder bridge and 4' end bent caps. The proposed roadway is comprised of 12' travel lanes with 8'-0" shoulders. 40'-0" clear roadway with 0.02 cross slope normal crown. The project also contains detour that has 11' travel lanes with varying shoulder of 4'-10'. The detour bridge will have vertical abutments and deck drains that will begin at station 16+30 spaced every 40' on center to 18+70 left. The permanent drainage includes inlets on all four corners of the bridge that will discharge into the wetlands. The temporary drainage include 18" cross pipes to drain the runoff between the proposed fill and temporary fill for the detour bridge.					
Waterbody Information							
Surface Water Body (1):		South River Overflow		NCDWR Stream Index No.:			
NCDWR Surface Water Classification for Water Body		Primary Classification:		Class C			
		Supplemental Classification:		Swamp Waters (Sw)			
Other Stream Classification:							
Impairments:							
Aquatic T&E Species?		Comments:					
NRTR Stream ID:						Buffer Rules in Effect: N/A	
Project Includes Bridge Spanning Water Body?		Yes		Deck Drains Discharge Over Buffer?		No	
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)		Dissipator Pads Provided in Buffer? N/A	
(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)	

09/08/99

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SAMPSON COUNTY

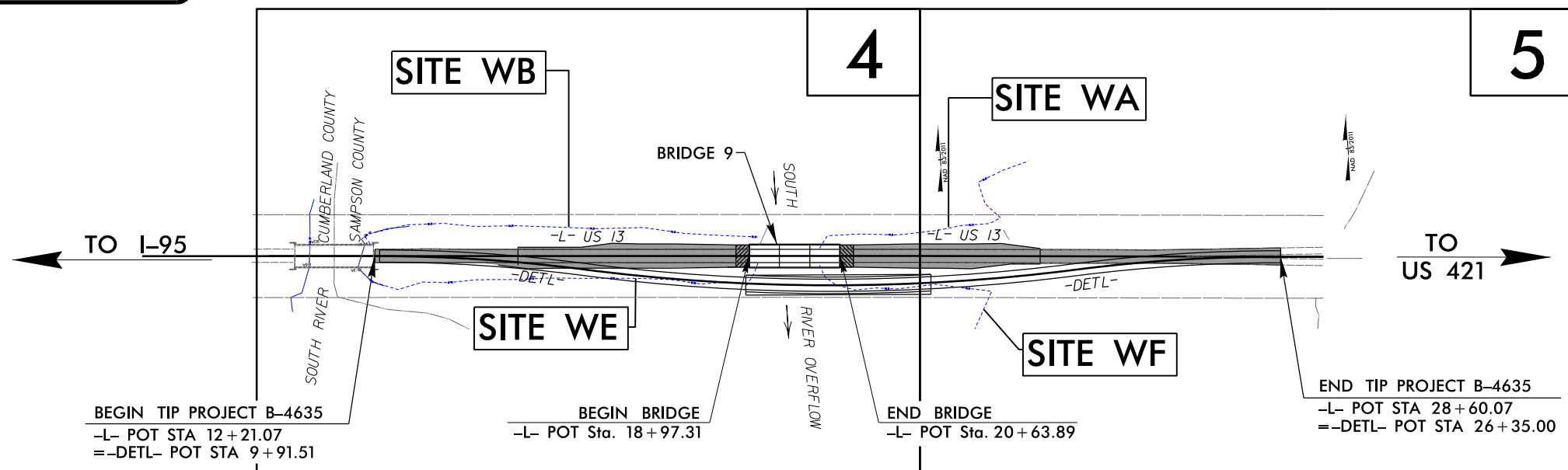
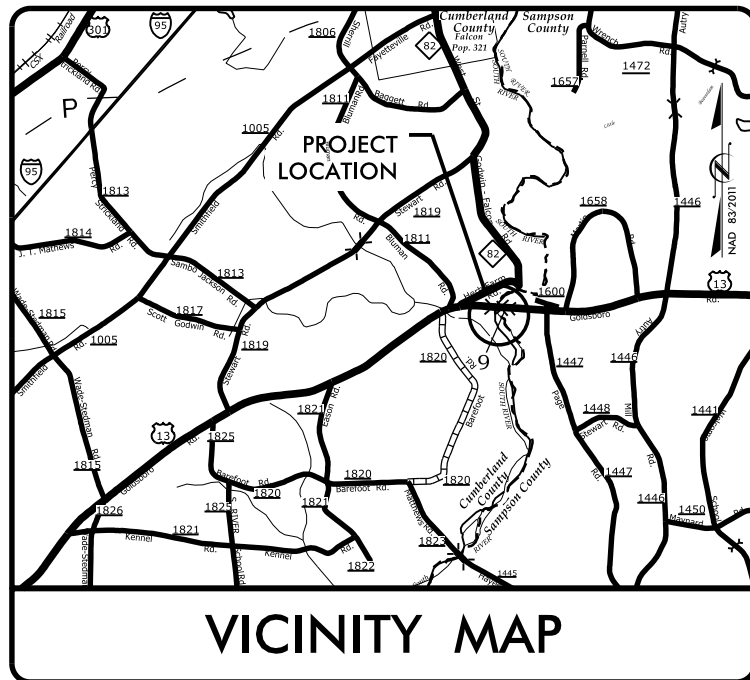
**LOCATION: REPLACE BRIDGE #9 OVER SOUTH
RIVER OVERFLOW ON US 13**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4635	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
38446.1.2		P.E.	
38446.2.1		R/W	
38446.3.1		CONST.	

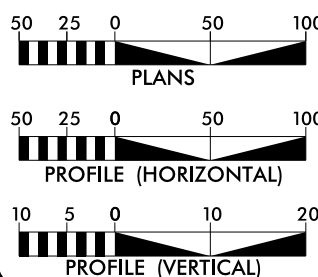
PERMIT DRAWING
SHEET 1 OF 12



TIP PROJECT: B-4635

CONTRACT:

GRAPHIC SCALES



DESIGN DATA

ADT 2019 = 4,184
ADT 2039 = 6,104
K = 9 %
D = 60 %
T = 19 % *
V = 60 MPH
* TTST = 14 DUAL 5
FUNC CLASS = MINOR
ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4635 = 0.278 MILES
LENGTH STRUCTURE TIP PROJECT B-4635 = 0.032 MILES
TOTAL LENGTH TIP PROJECT B-4635 = 0.310 MILES

NCDOT CONTACT: DAVID STUTTS, PE

PLANS PREPARED FOR NCDOT BY:

Dewberry

2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

RIGHT OF WAY DATE:
APRIL 3, 2019

DENNIS J. MORY, P.E.
PROJECT ENGINEER

LETTING DATE:
OCTOBER 15, 2019

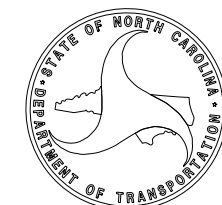
ANNE MARIE PRIETO, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.
ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



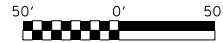
5/14/99

22/5/2019
DEWBERRY
B4635_Perm Drawing_20190225.pdf



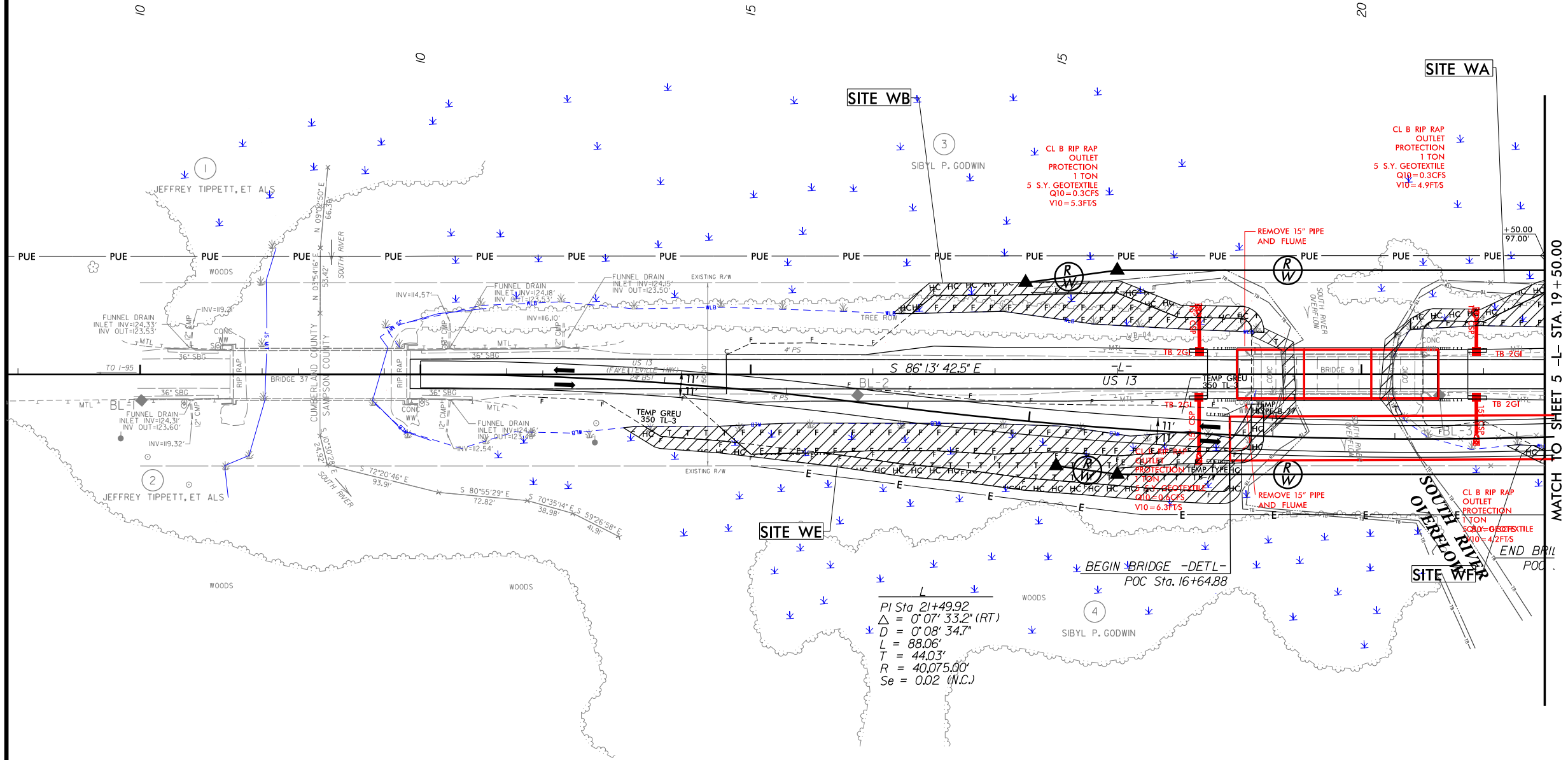
3410 WYCLIFF ROAD
SUITE 400
RALEIGH, NC 27607
PHONE: 919.885.9529
NC COR No. F-0929

PROJECT REFERENCE NO.		SHEET NO.
B-4635		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

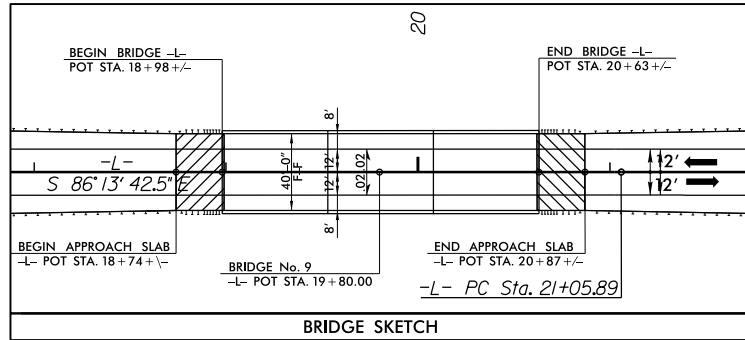


PERMIT DRAWING SHEET 2 OF 12

NAD 83/2011



PI Sta 21+49.92
 $\Delta = 0^\circ 07' 33.2''$ (RT)
 $D = 0^\circ 08' 34.7''$
 $L = 88.06'$
 $T = 44.03'$
 $R = 40,075.00'$
 $Se = 0.02$ (N.C.)



SEE SHEET 8 FOR -L- PROFILE

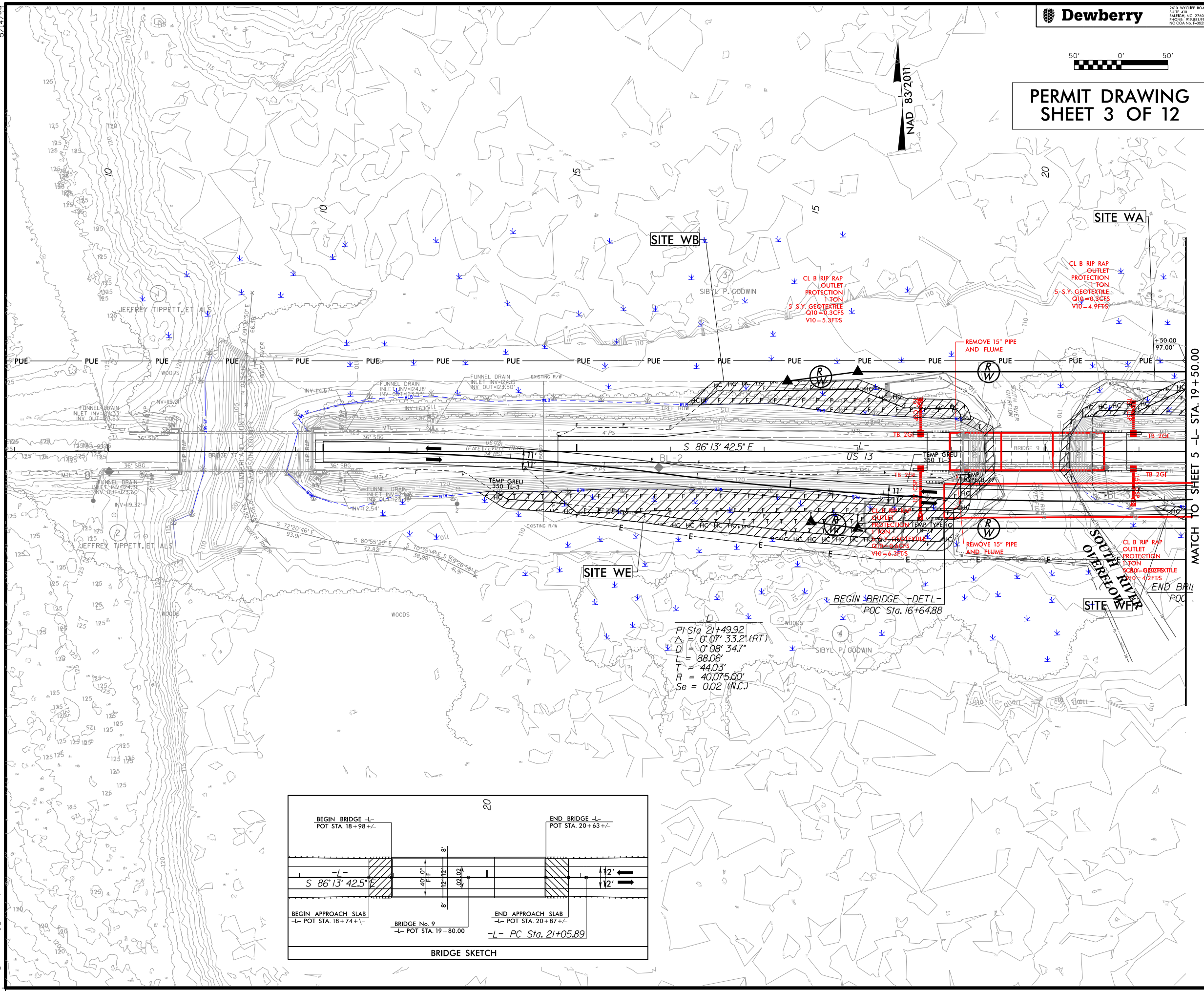
5/14/99
2252019
DEWBERRY
B4632_Permit Drawings_20190225.pdf

PROJECT REFERENCE NO.		SHEET NO.
B-4635		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

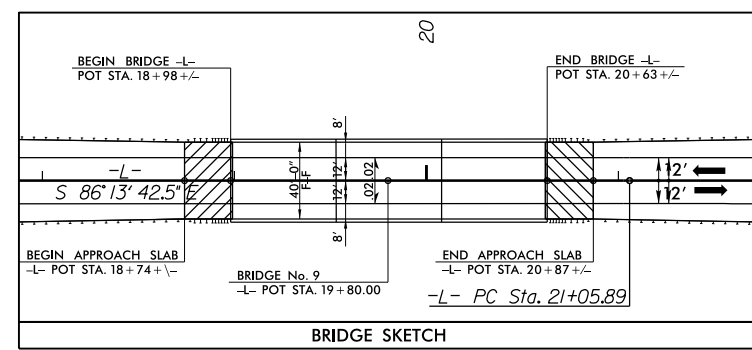



**PERMIT DRAWING
SHEET 3 OF 12**


- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES EXCAVATION IN WETLAND
- DENOTES TEMPORARY FILL IN WETLAND




PI Sta. 21+49.92
 $\Delta = 0^\circ 07' 33.2''$ (RT)
 $D = 0^\circ 08' 34.7''$
 $L = 88.06'$
 $T = 44.03'$
 $R = 40,075.00'$
 $Se = 0.02$ (N.C.)



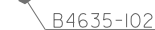
 DENOTES FILL IN WETLAND

 DENOTES HAND CLEARING

 DENOTES TEMPORARY FILL IN WETLAND

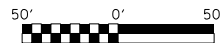


NAD 83/2011



SEE SHEET 8 FOR -L- PROFILE

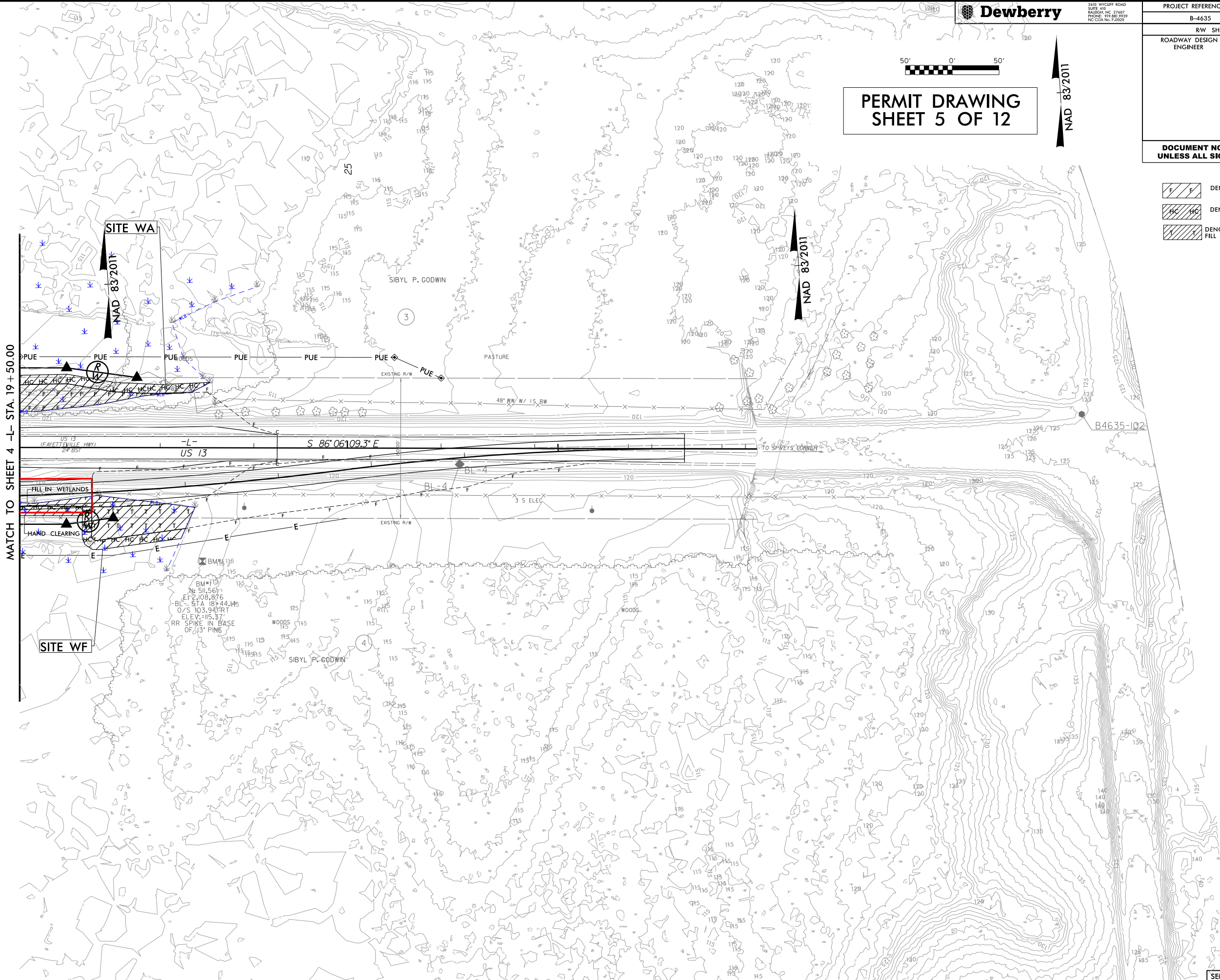
PROJECT REFERENCE NO.		SHEET NO.
B-4635		5
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



PERMIT DRAWING
SHEET 5 OF 12

NAD 83/2011

NAD 83/2011



- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES TEMPORARY FILL IN WETLAND



2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

PROJECT REFERENCE NO.

SHEET NO.

B-4635

8

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PERMIT DRAWING
SHEET 6 OF 12

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	6560	CFS
DESIGN FREQUENCY	=	50	YRS
DESIGN HW ELEVATION	=	118J	FT
BASE DISCHARGE	=	7820	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	119J	FT
OVERTOPPING DISCHARGE	=	500+	CFS
OVERTOPPING FREQUENCY	=	19260	YRS
OVERTOPPING ELEVATION	=	124.5	FT

DATE OF SURVEY = 6/25/2018
W.S.ELEVATION
AT DATE OF SURVEY = 110.4 FT

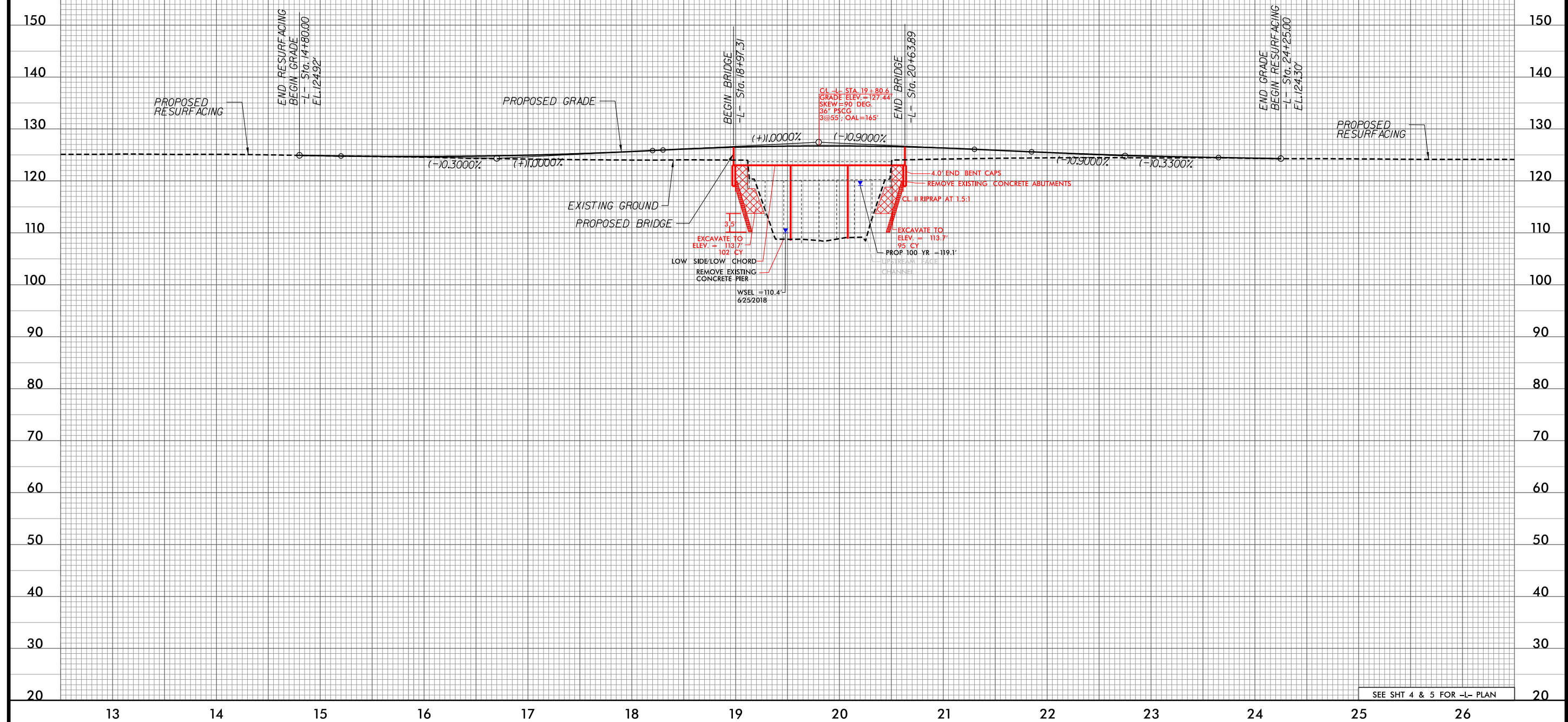
$PI = 16+70.00$
 $EL = 124.35'$
 $VC = 300'$
 $K = 231$
 $DS = > 60 \text{ MPH}$

—L—

$$\begin{aligned} PI &= 19+80.00 \\ EL &= 127.45' \\ VC &= 300' \\ K &= 158 \\ DS &= 60 \text{ MPH} \end{aligned}$$

$PI = 22+75.00$
 $EL = 124.79'$
 $VC = 180'$
 $K = 316$
 $DS = > 60 \text{ MPH}$

BM #1
-L- STA 23+45.41
121.21' RIGHT
ELEV. 115.37'
RR SPIKE IN BASE OF 13" PINE



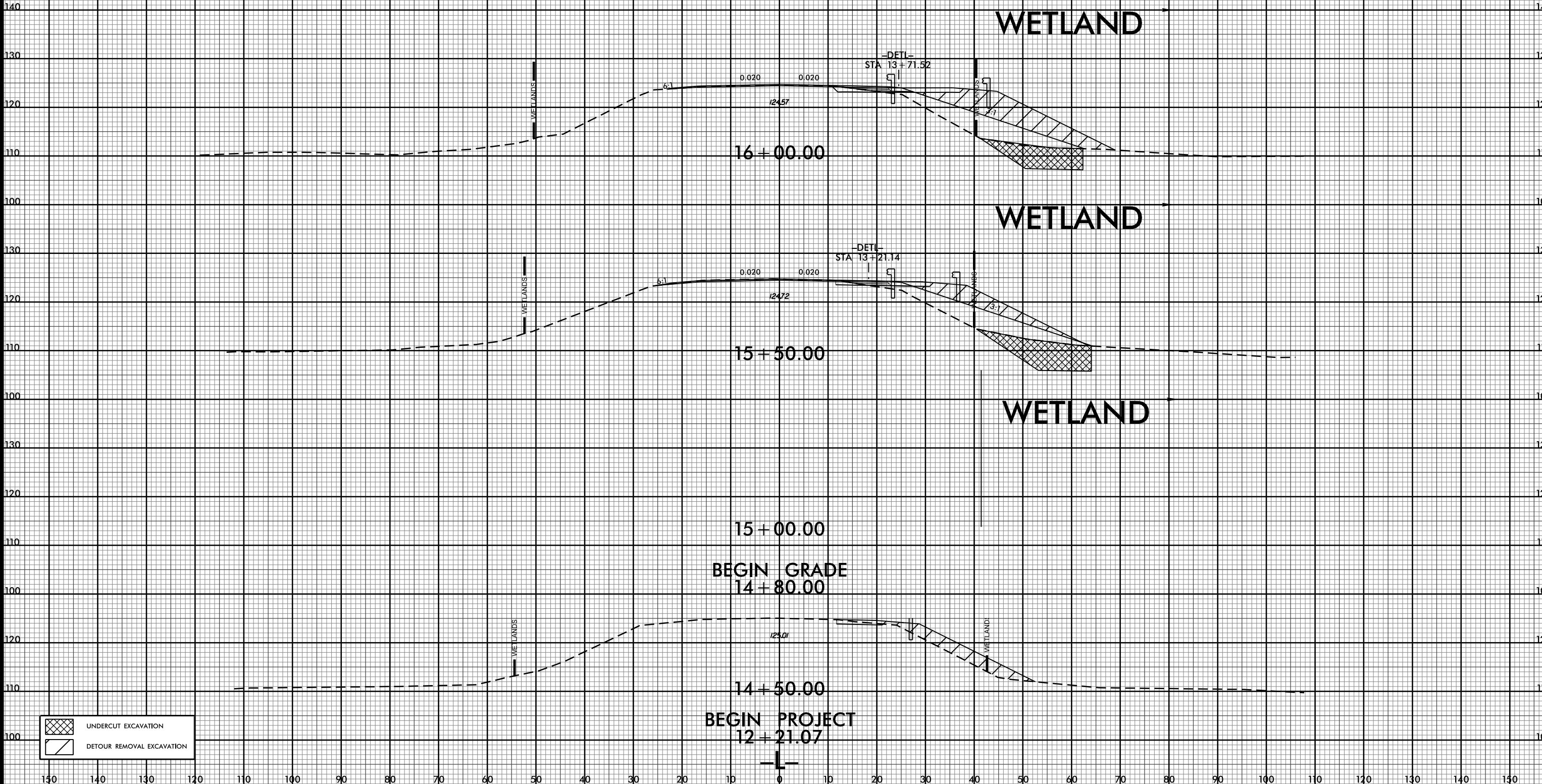
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
B-4635	X-1

PERMIT DRAWING
SHEET 7 OF 12

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

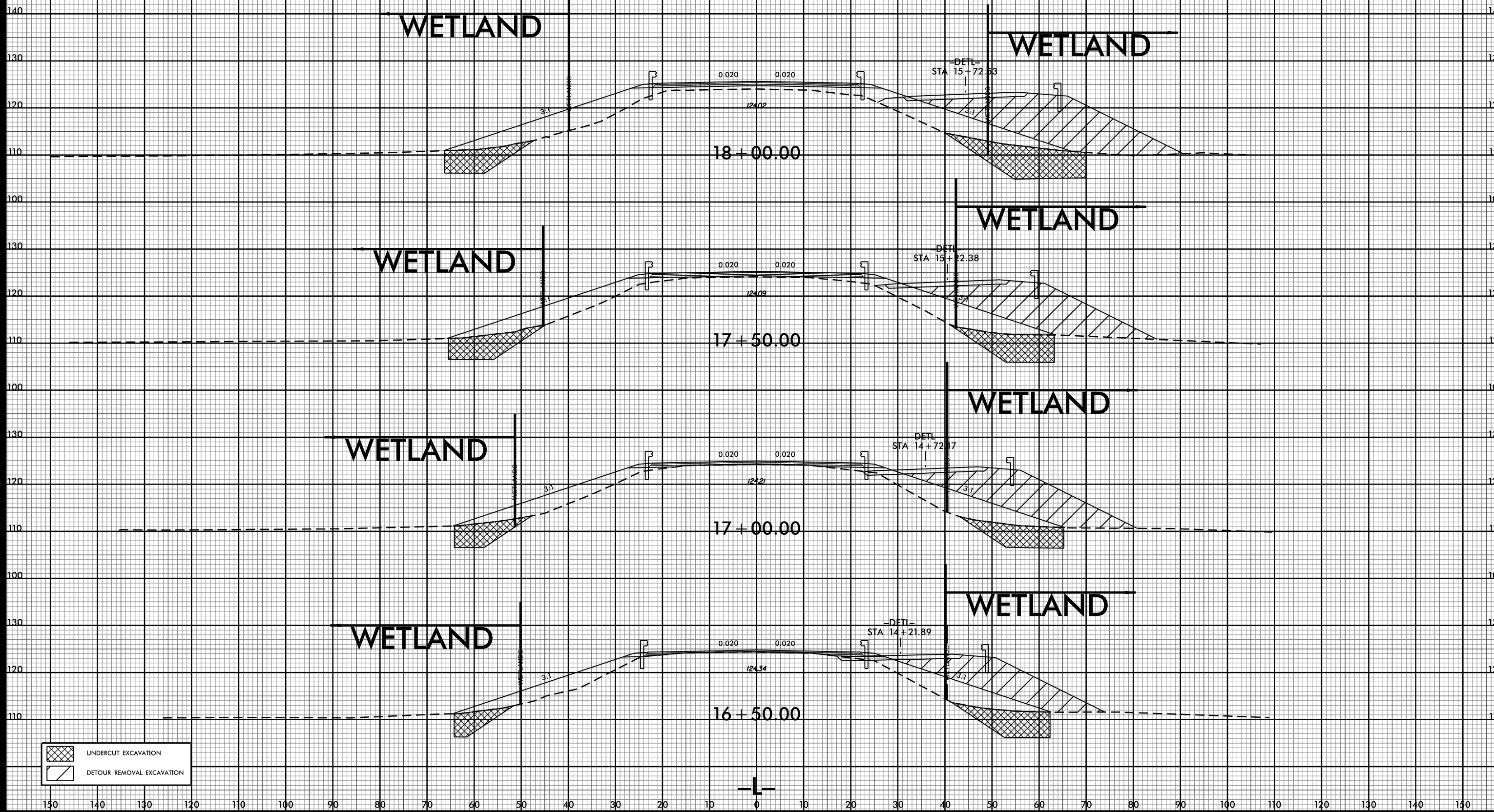


6/23/16



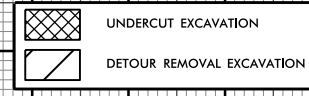
PROJ. REFERENCE NO.	SHEET NO.
B-4635	X-2

PERMIT DRAWING
SHEET 8 OF 12



	UNDERCUT EXCAVATION
	DETOUR REMOVAL EXCAVATION

150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
-----	-----	-----	-----	-----	-----	----	----	----	----	----	----	----	----	----	---	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----

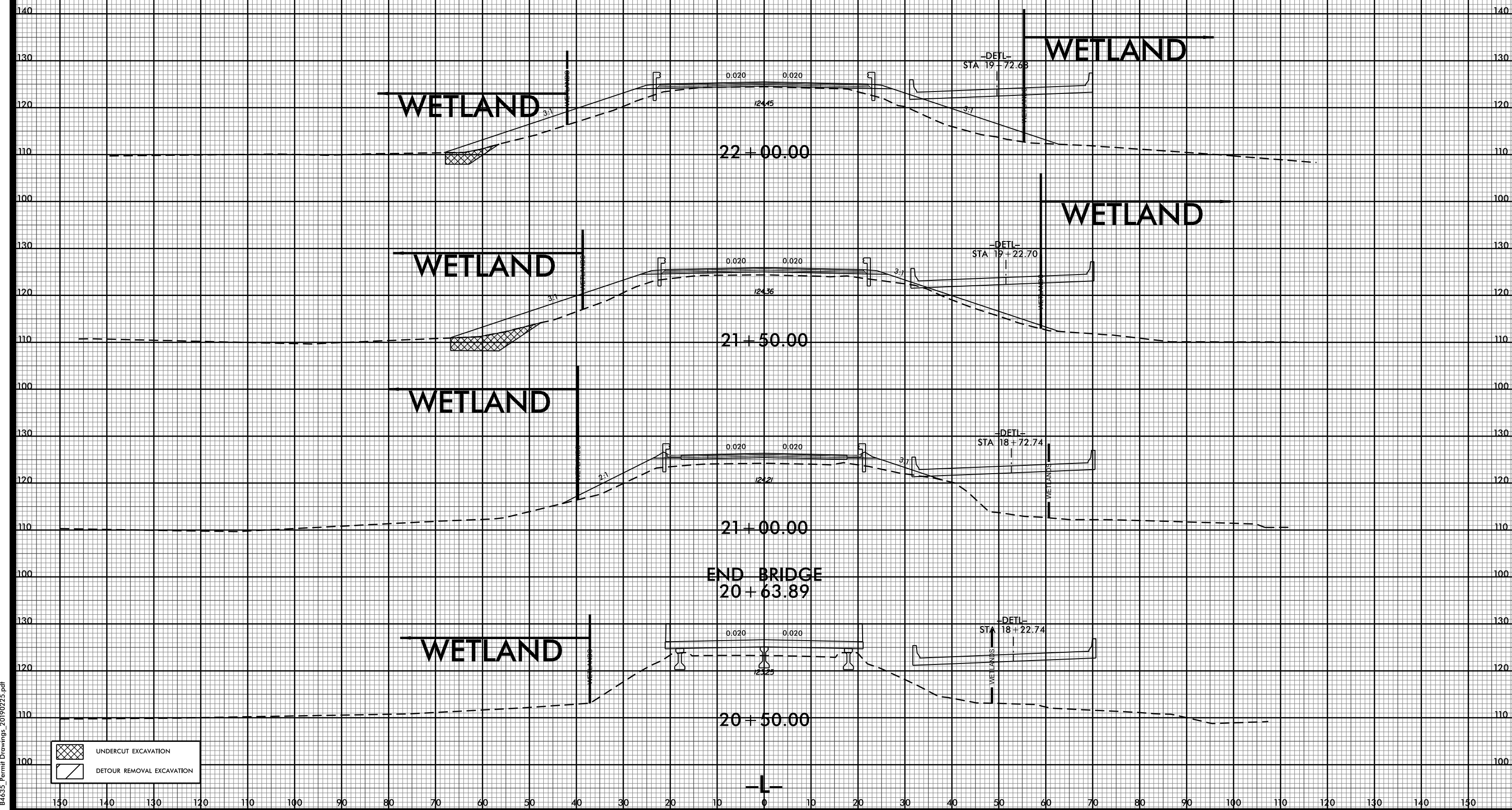


6/23/16



PROJ. REFERENCE NO. **B-4635** SHEET NO. **X-4**

PERMIT DRAWING
SHEET 10 OF 12



UNDERCUT EXCAVATION
DETOUR REMOVAL EXCAVATION

6/23/16



PROJ. REFERENCE NO.
B-4635

SHEET NO.
X-5

PERMIT DRAWING
SHEET 11 OF 12

END PROJECT
28 + 60.07

END GRADE
24 + 25.00

24 + 00.00

23 + 50.00

23 + 00.00

22 + 50.00

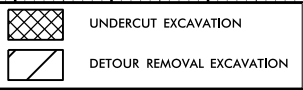
WETLAND

WETLAND

WETLAND

WETLAND

WETLAND



2/25/2019
DEWBERRY
B-4635 Permit Drawings - 2/10/2015.dwg

WETLAND AND SURACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	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)
WB	L 15+85 TO 19+20 LT	ROADWAY FILL	0.10				0.07					
WA	L 20+40 TO 23+53 LT	ROADWAY FILL	0.08				0.07					
WE	L 14+09 TO 19+17 RT	ROADWAY FILL	0.21		0.02		0.01					
WE	DETL 11+67 TO 16+66 RT	TEMPORARY FILL		0.14			0.11					
WF	L 21+19 TO 23+37 RT	ROADWAY FILL	0.02		0.09		0.03					
WF	DETL 20+00 TO 21+08 RT	TEMPORARY FILL		0.07								
WB	L 19+20 LT/RT	IMPERVIOUS DIKE		0.02								
WA	L 20+19 LT/RT	IMPERVIOUS DIKE		0.02								
TOTALS*:			0.41	0.25	0.12		0.30			0	0	0

*Rounded totals are sum of actual impacts

NOTES:

Excavation for SITE WE is due to undercutting for the detour bridge.
Site WE and WF temporary fill impacts for detour begin at the permanent fill impact for L
For Sites WE and WF hand clearing limit is 10' from temporary fill in wetlands.
* Impervious dikes included due to the request of roadside environmental
There will be 0.06 acre of temporary fill in the hand clearing areas for erosion control measures.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
8/29/2019
SAMPSON COUNTY
B-4635
38446.1.2

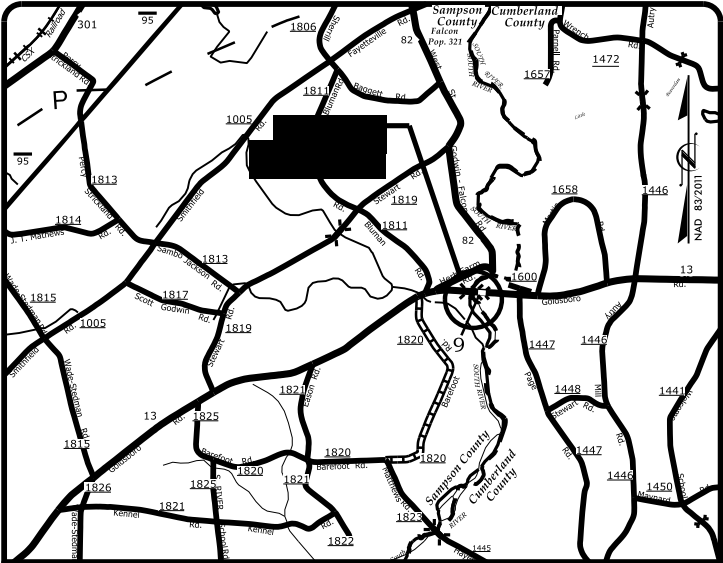
SHEET12OF12

09/08/99
16-SEP-2019 15:39
R:\Utilities\Engineering\NEU\Permit Plans and Narrative\B4635.ut_NEU01.TSH.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

TIP PROJECT: B-4635

CONTRACT:

See Sheet 1B for Conventional Symbols



VICINITY MAP

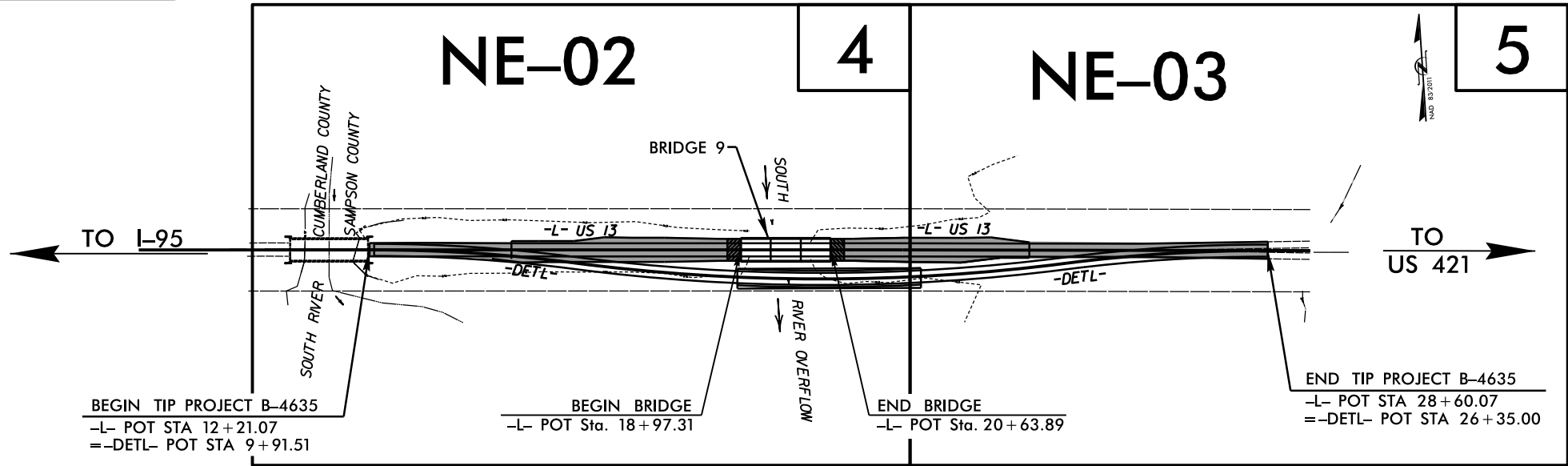
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NEU PERMIT PLANS
SAMPSON COUNTY

LOCATION: REPLACE BRIDGE #9 OVER SOUTH
RIVER OVERFLOW ON US 13

TYPE OF WORK: RELOCATE TRANSMISSION POWER LINE

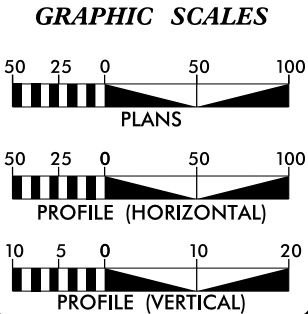
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4635	NE-01	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38446.1.2		P.E.	
38446.2.1		RW	
38446.3.1		CONST.	



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY MODIFIED METHOD III.


NCDOT CONTACT: DAVID STUTTS, PE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

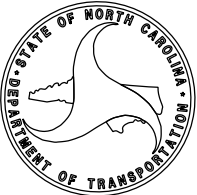


DESIGN DATA	
ADT 2019 =	4,184
ADT 2039 =	6,104
K =	9 %
D =	60 %
T =	19 % *
V =	60 MPH
* TTST =	14 DUAL 5
FUNC CLASS =	MINOR
	ARTERIAL
	REGIONAL TIER

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT B-4635 =	0.278 MILES
LENGTH STRUCTURE TIP PROJECT B-4635 =	0.032 MILES
TOTAL LENGTH TIP PROJECT B-4635 = 0.310 MILES	

PLANS PREPARED FOR NCDOT BY:	
 Dewberry 2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 NC COA No. F-0929	
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: APRIL 3, 2019	DENNIS J. MORY, P.E. PROJECT ENGINEER
LETTING DATE: OCTOBER 15, 2019	ANNE MARIE PRIETO, P.E. PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER	
SIGNATURE: _____	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE: _____	P.E.



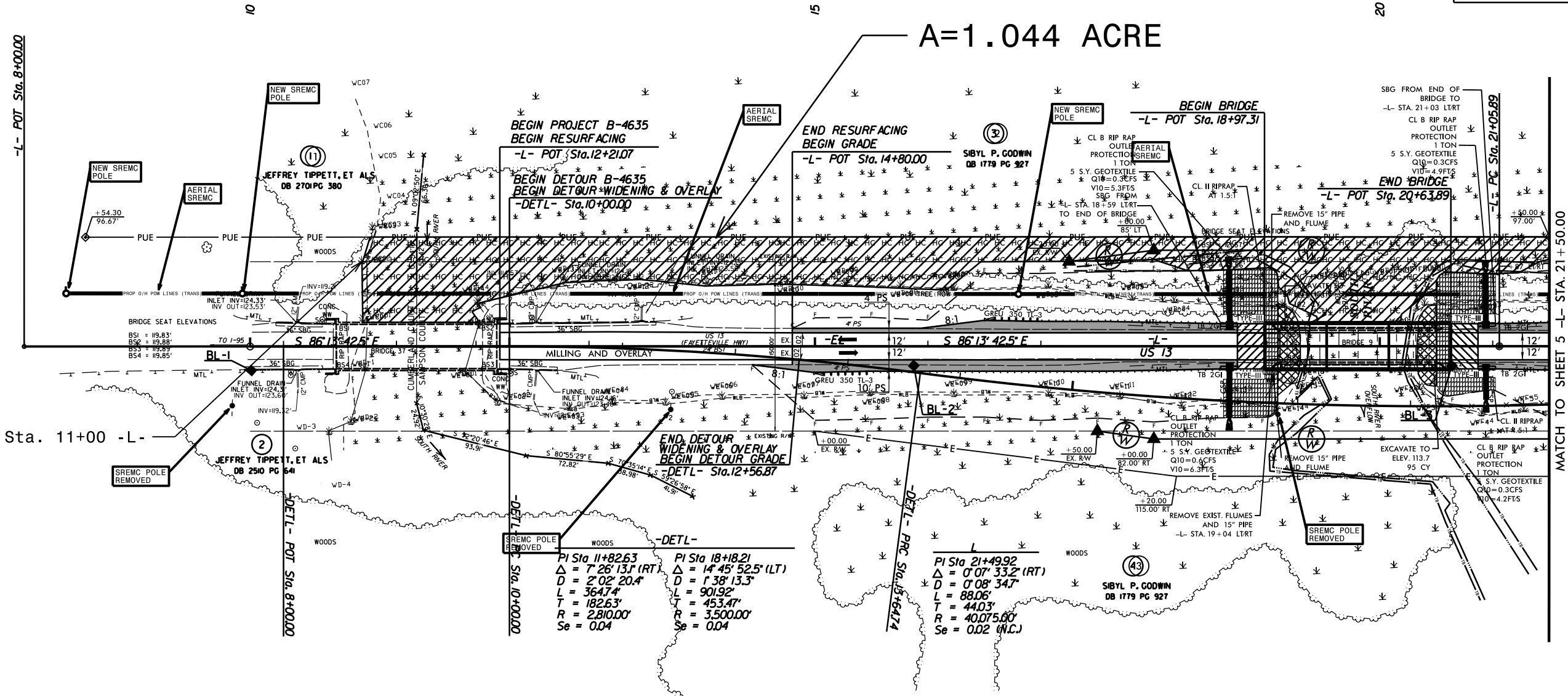
5/14/99

16-SEP-2019 15:06
Engineering\NEU\Permit\Plans and Narrative\B4635-ut-NEU02.psh04.dgn

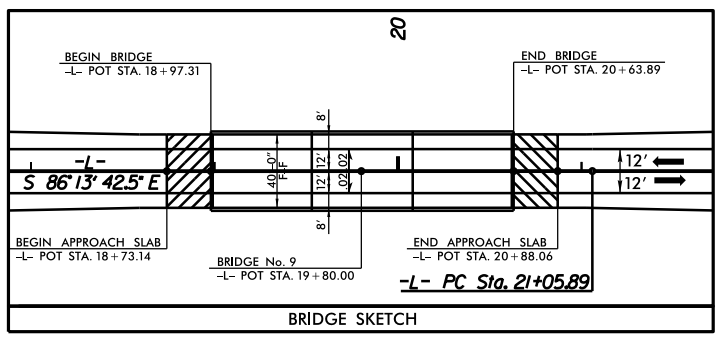
Dewberry

2010 WYCLIFF ROAD
SUITE 400
RALEIGH, NC 27601
PHONE: 919.881.9939
NC CCA No. F-0029

PROJECT REFERENCE NO.		SHEET NO.	
B-4635		NE-02	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



SITE 1



HC HC

DENOTES HAND CLEARING

SEE SHEET 8 FOR -L- PROFILE

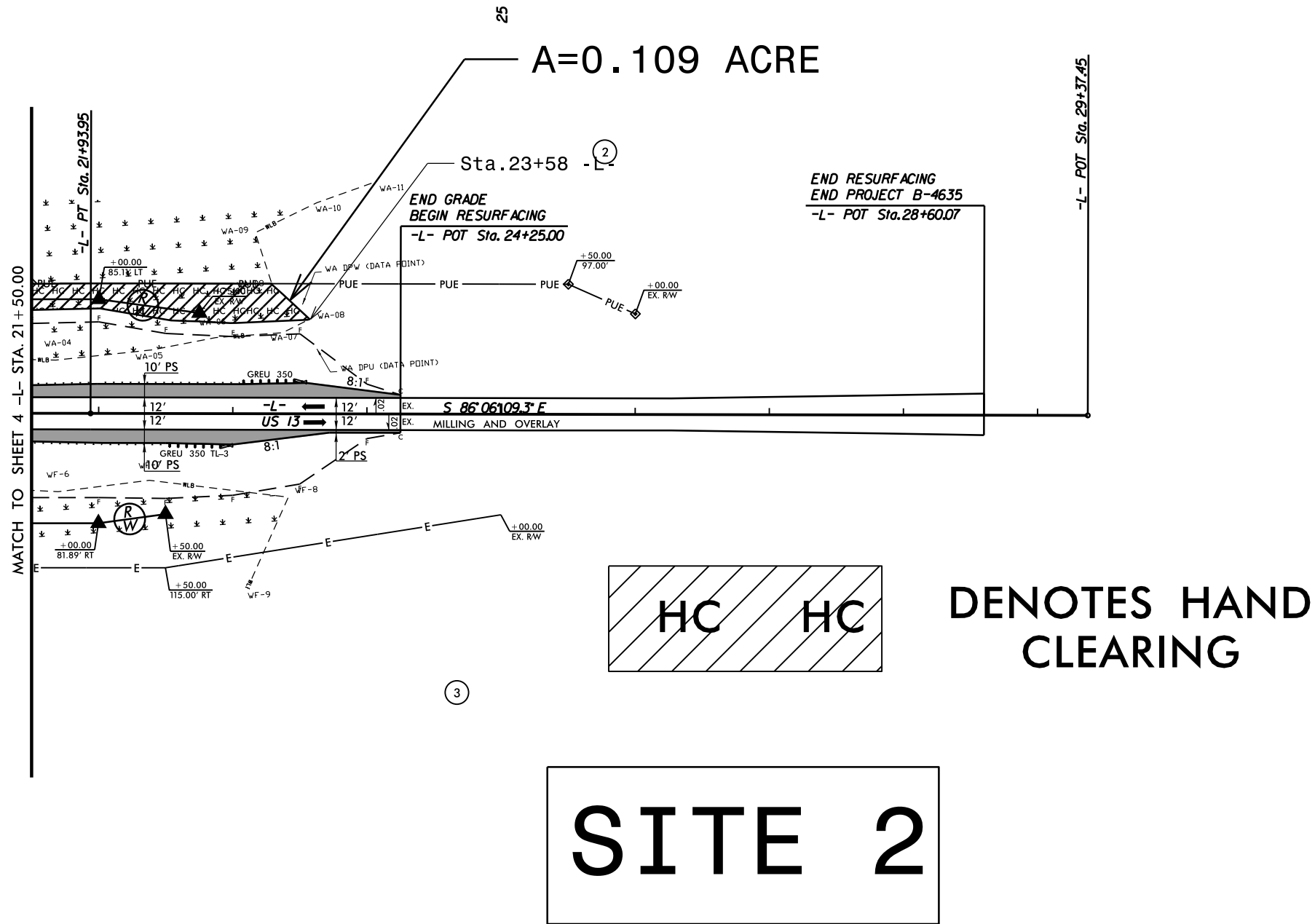
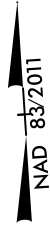
5/14/99

6 SEP 2019 14:56
neering\GIS\Projects and Narrative\B4635-ut-NEU03-ps\05.dgn
B4635-ut-NEU03-ps\05.dgn



2410 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9299
NC CCA NO. 0-0009

PROJECT REFERENCE NO.		SHEET NO.	
B-4635		NE-03	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



PARCEL INDEX

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	JEFFREY TIPPETT, ET ALS
2	4,5	SIBYL P. GODWIN
3	4,5	SIBYL P. GODWIN

SEE SHEET 8 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	L 11+00 TO 21+50 LT	TRANSMISSION LINES					1.04					
2	L 21+50 TO 23+58 LT	TRANSMISSION LINES					0.11					
TOTALS:							1.15			0	0	0

SHEET 1 OF 1