

Project Submittal Interim Form



Updated September 4, 2020

*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.*

Project Type: *

- ☐ For the Record Only (Courtesy Copy)
- ☐ New Project
- ☐ Modification/New Project with Existing ID
- ☐ More Information Response
- ☐ Other Agency Comments
- ☐ Pre-Application Submittal
- ☒ Re-Issuance/Renewal Request
- ☐ Stream or Buffer Appeal

Pre-Filing Meeting Date Request was submitted on:

8/11/2021

Project Contact Information

Name:

Erin Cheely

Who is submitting the information?

Email Address: *

ekcheely@ncdot.gov

Project Information

Existing ID #: *

20191232

20170001 (no dashes)

Existing Version: *

1

1

Project Name: *

R-0211EC - Interstate Access Addition to I-485 at Weddington Road (SR 3468)

Is this a public transportation project? *

- ☐ Yes
- ☒ No

Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

- ☐ Yes
- ☒ No
- ☐ Unknown

County (ies) *

Mecklenburg

Please upload all files that need to be submitted.

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

R-0211EC Mecklenburg Reverification January

2023.pdf

19.82MB

Only pdf or kmz files are accepted.

Describe the attachments or add comments:

Reverification of this project is requested as the previously issued Nationwide Permits will expire and construction is not anticipated to be complete by the expiration.

The previously issued 404 and 401 Permits (Permit Package) and Application Package are attached. There have been no changes to design or impacts since the previously issued permits and the plans submitted with the original application package remain accurate and valid.

Protected species for this project are up to date. As of January 5, 2023, IPaC only identifies Carolina heelsplitter, Michaux's sumac, Schweinitz's sunflower, and smooth coneflower within the project area (IPaC resource list attached). No habitat exists for Carolina heelsplitter within the project area, and any potential habitat that previously existed for the three listed plant species has already been cleared. Therefore, there is no habitat for any listed species within the R-0211EC project footprint.

There have been no changes to Archaeology and Historic Properties since the previously issued permits. The original permits pre-dated current tribal coordination protocols. Please find attached tribal coordination for this project.

NCDOT is hereby requesting reverification under RGP 50.

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

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, the project proponent, hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I agree that submission of this online 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 online form.

Signature: *



Submittal Date:

Tribal Coordination



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

December 21, 2022

Ms. Elizabeth Toombs
Tribal Historic Preservation Officer
PO Box 948
Talequah, OK 74465

Dear Ms. Toombs,

The North Carolina Department of Transportation is seeking a permit renewal/ reissuance from the U.S. Army Corps of Engineers for the subject project, which is currently under construction and the permit will expire prior to the end of construction.

Original project permitting pre-dated our current Tribal Coordination Process. However, these projects were reviewed for Archaeological and Historic Architecture and Landscapes. Those screening results are included with this letter.

The project involves improvements to Interstate 485 (I-485) from I-77 to US 74 (Independence Boulevard), including addition of interstate access to I-485 at Weddington Road (SR 3468), and improvements to the I-485 and East John Street – Old Monroe Road (SR 1009) interchange in Mecklenburg County as projects I-5507, R-0211EC, and U-4714AB. The Federal Highway Administration (FHWA) is the lead federal agency for compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA). Project vicinity maps are attached. The coordinates of this project are approximately 35.125341, -80.917904 to 35.110189, -80.688744 from west to east.

We would appreciate any information you might have that would be helpful in evaluating potential environmental impacts. In accordance with Section 106 of the NHPA, we also request that you inform us of any historic properties of traditional religious or cultural importance that you are aware of that may be affected by the proposed project. Be assured that, in accordance with confidentiality and disclosure stipulations in Section 304 of the NHPA, we will maintain strict confidentiality about certain types of information regarding historic properties. In addition, current and future NCDOT projects will adhere to the current Tribal Coordination Process with the intent of requesting the above information at the pre-determination stage of the project.

Please respond by January 21, 2023 so that your comments can be used in the permitting evaluation of this project.

If you have any questions concerning this project, or would like any additional information, please contact me at ekcheely@ncdot.gov or (919) 707-6108.

Thank you,

A handwritten signature in cursive script, appearing to read "Erin K. Cheely".

Erin K. Cheely
Environmental Coordination and Permitting

Enclosures:
Project Vicinity Maps
Archaeology Screening Letters

ec:
Matt Wilkerson, NCDOT Archaeology Team Leader
Crystal Amschler, USACE Project Manager

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

Telephone: (919) 707-6000
Customer Service: 1-877-368-4968
Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

December 21, 2022

Dr. Wenonah Haire
Catawba Indian Nation
Tribal Historic Preservation Office
1536 Ton Steven Road
Rock Hill, SC 29730

Dear Dr. Haire,

The North Carolina Department of Transportation is seeking a permit renewal/ reissuance from the U.S. Army Corps of Engineers for the subject project, which is currently under construction and the permit will expire prior to the end of construction.

Original project permitting pre-dated our current Tribal Coordination Process. However, these projects were reviewed for Archaeological and Historic Architecture and Landscapes. Those screening results are included with this letter.

The project involves improvements to Interstate 485 (I-485) from I-77 to US 74 (Independence Boulevard), including addition of interstate access to I-485 at Weddington Road (SR 3468), and improvements to the I-485 and East John Street – Old Monroe Road (SR 1009) interchange in Mecklenburg County as projects I-5507, R-0211EC, and U-4714AB. The Federal Highway Administration (FHWA) is the lead federal agency for compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA). Project vicinity maps are attached. The coordinates of this project are approximately 35.125341, -80.917904 to 35.110189, -80.688744 from west to east.

We would appreciate any information you might have that would be helpful in evaluating potential environmental impacts. In accordance with Section 106 of the NHPA, we also request that you inform us of any historic properties of traditional religious or cultural importance that you are aware of that may be affected by the proposed project. Be assured that, in accordance with confidentiality and disclosure stipulations in Section 304 of the NHPA, we will maintain strict confidentiality about certain types of information regarding historic properties. In addition, current and future NCDOT projects will adhere to the current Tribal Coordination Process with the intent of requesting the above information at the pre-determination stage of the project.

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Erin K. Cheely
Environmental Coordination and Permitting

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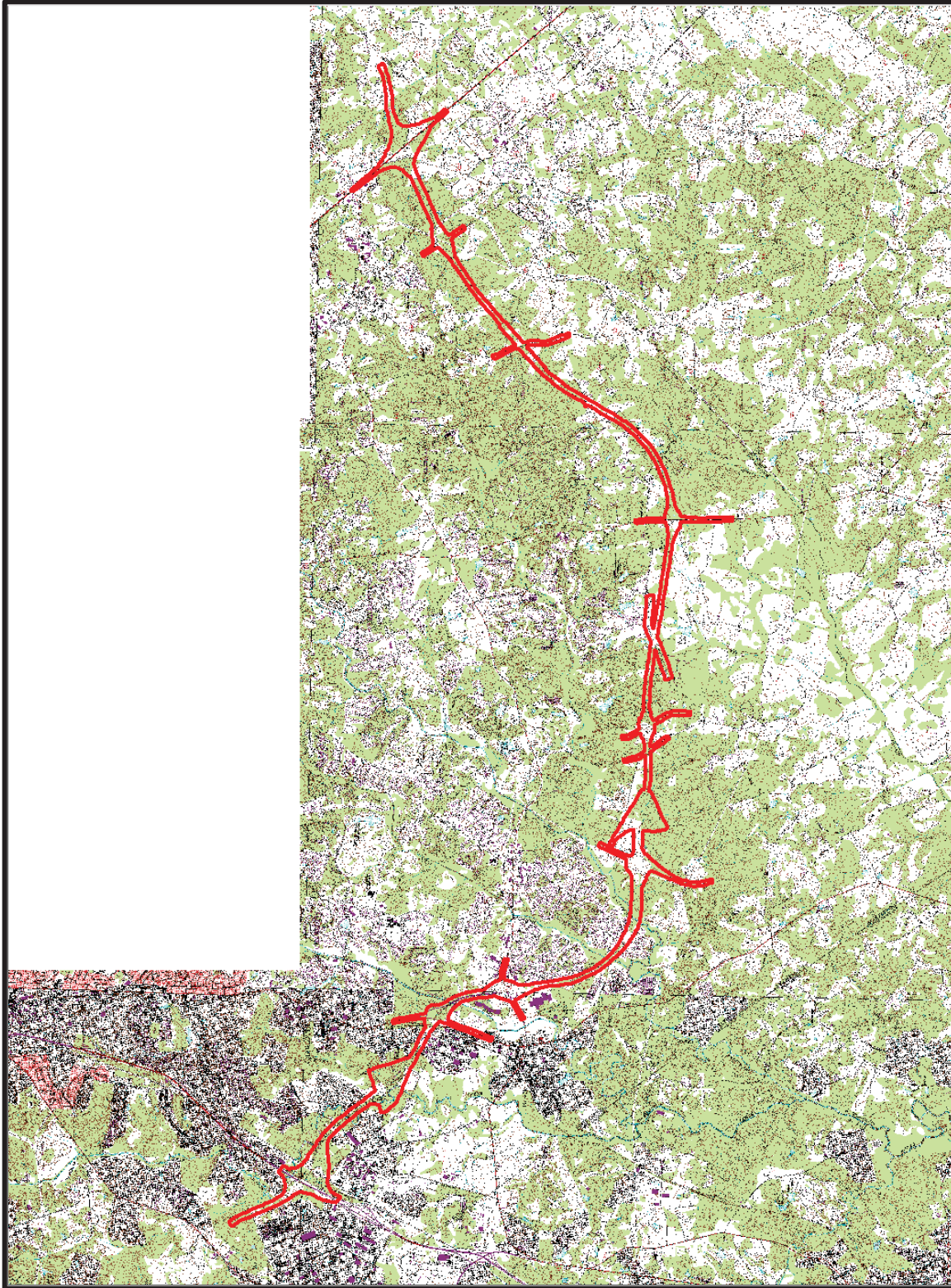


Figure 1: Charlotte West, NC (USGS 1968 [PR80]), Fort Mill, NC (USGS 1968 [PR80]), Weddington, NC (USGS 1968 [PR88]), and Matthews, NC (USGS 1971 [PR80]). [North is to the left]

15-10-0041

**NO ARCHAEOLOGICAL SURVEY REQUIRED FORM**

This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.

**PROJECT INFORMATION**

Project No: **I-5507** County: **Mecklenburg**
 WBS No: **43609.1.1** Document: **CE**
 F.A. No: **NHS-0485(30)** Funding: ☒ State ☒ Federal

Federal Permit Required? ☐ Yes ☐ No Permit Type: **Not Listed**

Project Description: The NCDOT proposes improvements to add one express lane in each direction along I-485 from I-77 to US 74 (Independence Boulevard) in Mecklenburg County. The project length is 17 miles. The purpose of the project is to provide travel time reliability along I-485. This segment of I-485 carries between 65,000 and 112,000 vehicles per day and experiences congestion on a regular basis. The proposed express lanes will, in combination with improvements proposed on Independence Boulevard, give motorists the option of paying a fee for a reliable trip time on I-485 between I-77 and US 74.

SUMMARY OF CULTURAL RESOURCES REVIEW***Brief description of review activities, results of review, and conclusions:***

The State Historic Preservation Office/Office of State Archaeology has previously reviewed the proposed project (ER 13-2793), and are aware of no historic resources that would be affected by the project. Therefore, their office had no comment and recommended no further identification work be conducted. However, if the project were to be revised to include new ROW or additional noise wall, further review would be required. Thus, a additional map review and site file search was conducted at the Office of State Archaeology (OSA) on Monday, November 9, 2015. Various archaeological surveys have been conducted as part of the Charlotte Outer Loop (e.g. TIPs# R-211, U-2510A, and R-2123), and as a result of those surveys, numerous archaeological sites have been recorded along the interstate corridor and within one-half (1/2) mile of the proposed project. Digital copies of HPO's maps (Charlotte West, Fort Mill, Weddington, and Matthews Quadrangles) as well as the HPOWEB GIS Service (<http://gis.ncdcr.gov/hpoweb/>) were last reviewed on Thursday, November 19, 2015. Although various known historic architectural resources are located along the project corridor, intact archaeological deposits associated with such resources are not anticipated within the footprint of the proposed project. In addition, topographic maps, historic maps (NCMaps website), USDA soil survey maps, and aerial photographs were utilized and inspected to gauge environmental factors that may have contributed to historic or prehistoric settlement within the project limits, and to assess the level of modern, slope, agricultural, hydrological, and other erosive-type disturbances within and surrounding the archaeological APE.

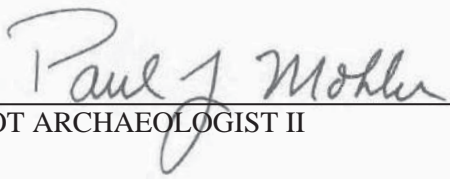
15-10-0041***Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:***

Both Federal and State funds will be used as part of this project. The need for a Federal permit was not known at the time of submittal; however, temporary easements will be necessary. At this time, we are in compliance with NC GS 121-12a since there are no eligible (i.e. National Register-listed) archaeological resources located within the project's Study Area that would require our attention. Based on the size of the Study Area, proposed activities may take place outside the NCDOT's existing ROW in certain locations along the highway corridor. From an environmental perspective, the Study Area falls within a highly urbanized area and consists of the gently rolling terrain typical of North Carolina's Southern Piedmont physiographic region. Numerous soil types are present throughout the Study Area, with most soil conditions (urban/disturbed, eroded, slopes, and somewhat poorly drained) not favorable for preserving intact archaeological sites/resources. Preservation of archaeological materials within these soil type areas is likely to be poor. Many of the sections of the Study Area that fall in areas of favorable conditions, however, have already been subjected to archaeological investigations either as part of the original survey for what was then I-77 (TIP# R-211) or for later studies along the interstate (TIP# R-2123) or adjacent roads (TIP# U-2510A). Any remaining areas that could have been potentially surveyed were ruled out after reviewing aerials from 1993, 1998, and 2015, which revealed a significant amount of erosion and development. Other areas may have been previously ruled out by OSA as part of their environmental review for cell towers and wetland locations. Based on the presence of urban/disturbed/eroded/sloped/poorly drained soils and the fact that a large portion of the Study Area was previously surveyed, it is believed that the current Study Area, as depicted, is unlikely to contain intact and significant archaeological resources. No archaeological survey is required for this project; the No Survey recommendation stated by NC-HPO in their memo of December 5, 2013 remains valid. If design plans change or are made available prior to construction, then additional consultation regarding archaeology will be required. At this time, no further archaeological work is recommended. If archaeological materials are uncovered during project activities, then such resources will be dealt with according to the procedures set forth for "unanticipated discoveries," to include notification of NCDOT's Archaeology Group. Please take note that the Study Area outline bisects the Dinkins Family Cemetery (Site 31MK273**), which has been deemed to possess special significance in terms of Charlotte and Mecklenburg County history. Thus, the Dinkins Family Cemetery should be avoided; all project activities should not take place within the vicinity of the cemetery (to include, but not be limited to, the storage of materials and/or equipment and vehicles).

SUPPORT DOCUMENTATION

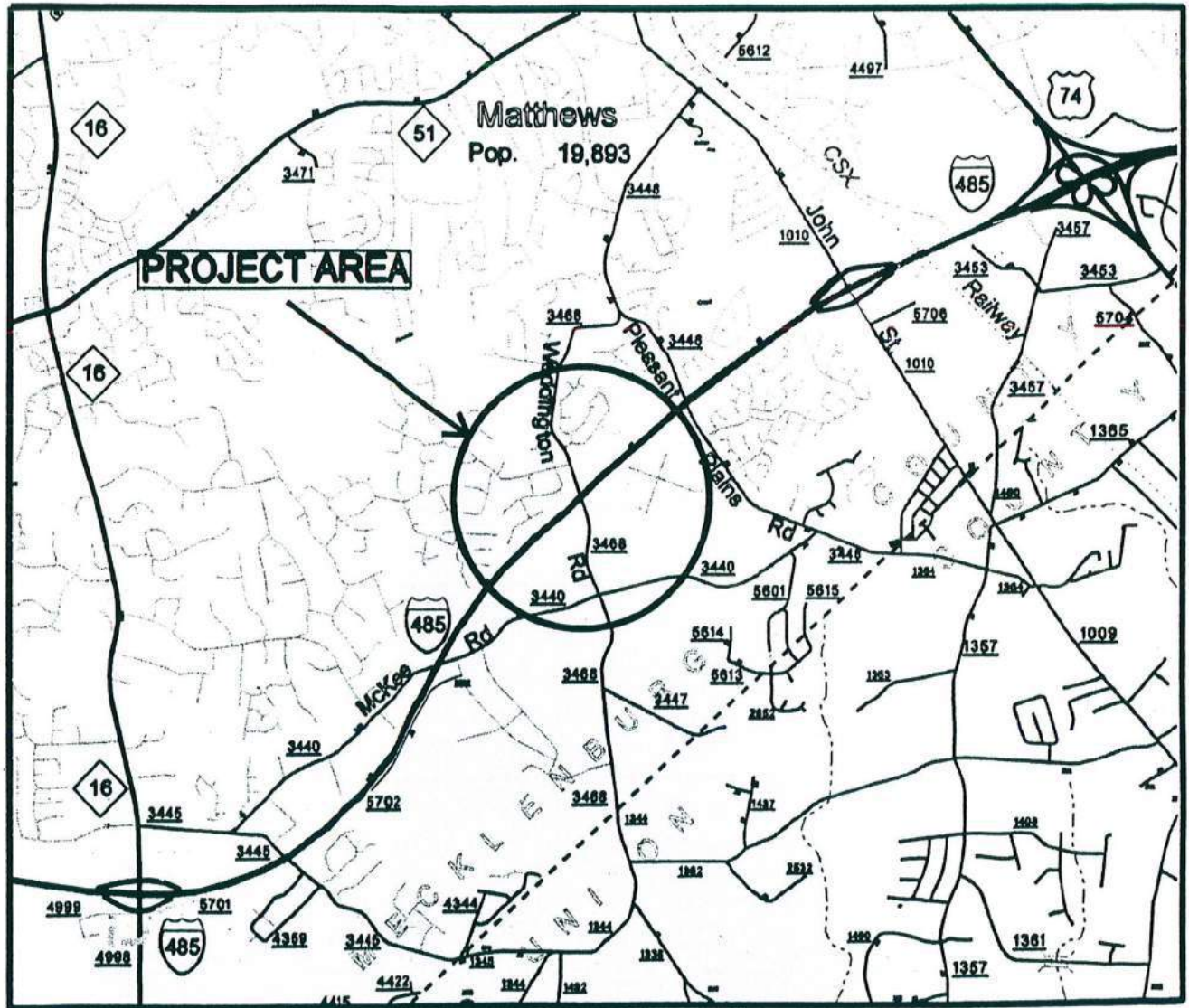
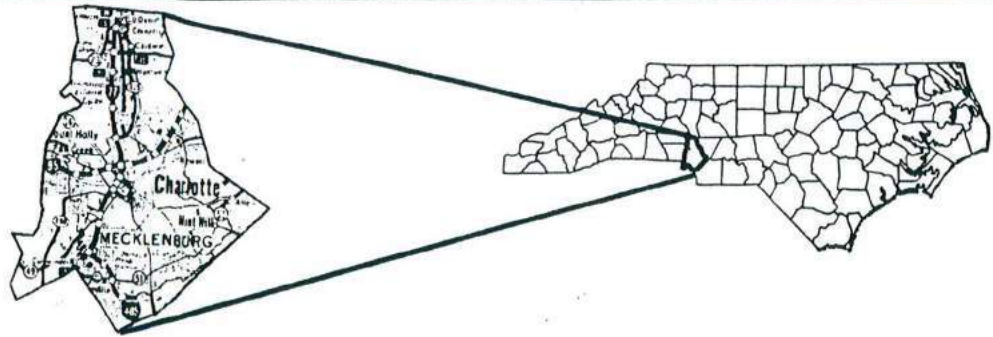
See attached: ☐ Map(s) ☐ Previous Survey Info ☐ Photos ☐ Correspondence
☐ Photocopy of County Survey Notes ☐ Other:

FINDING BY NCDOT ARCHAEOLOGIST**NO ARCHAEOLOGY SURVEY REQUIRED**


 NCDOT ARCHAEOLOGIST II

November 19, 2015

Date



	<p>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS BRANCH</p>
<p>I-485 (CHARLOTTE OUTER LOOP) INTERCHANGE AT WEDDINGTON ROAD MECKLENBURG COUNTY TIP PROJECT NO. R-0211EC</p>	
<p>FIGURE 1 - VICINITY MAP</p>	



North Carolina Department of Cultural Resources
State Historic Preservation Office
David L. S. Brook, Administrator

Michael F. Easley, Governor
Lisbeth C. Evans, Secretary

Division of Archives and History
Jeffrey J. Crow, Director

December 28, 2001

MEMORANDUM

TO: William D. Gilmore, Manager
Project Development and Environmental Analysis Branch
NCDOT, Division of Highways

FROM: David Brook *for David Brook*

SUBJECT: Review of Scoping Sheets for I-485 (Charlotte Outer Loop) at SR 3468 (Weddington Road), Federal-Aid Project NHF-117-1(54), TIP No. R-211EC, State Project 8.L670124, Mecklenburg County, ER 02-7632

We regret that a member of our staff was unable to attend the scoping meeting for the above project on September 25, 2001. Based on the information provided, we recommend an architectural survey of the undertaking's area of potential effect.

Because of the location and topography of the project area, it is unlikely that any archaeological sites which may be eligible for listing in the National Register of Historic Places will be affected by the proposed construction. We, therefore, recommend that no archaeological investigation be conducted in connection with this project.

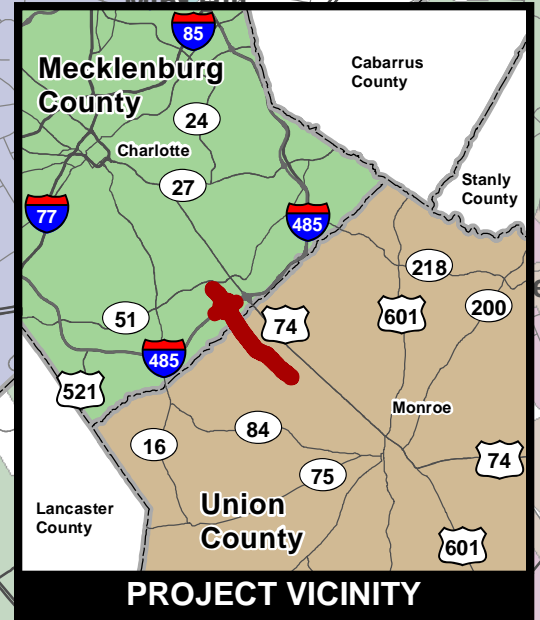
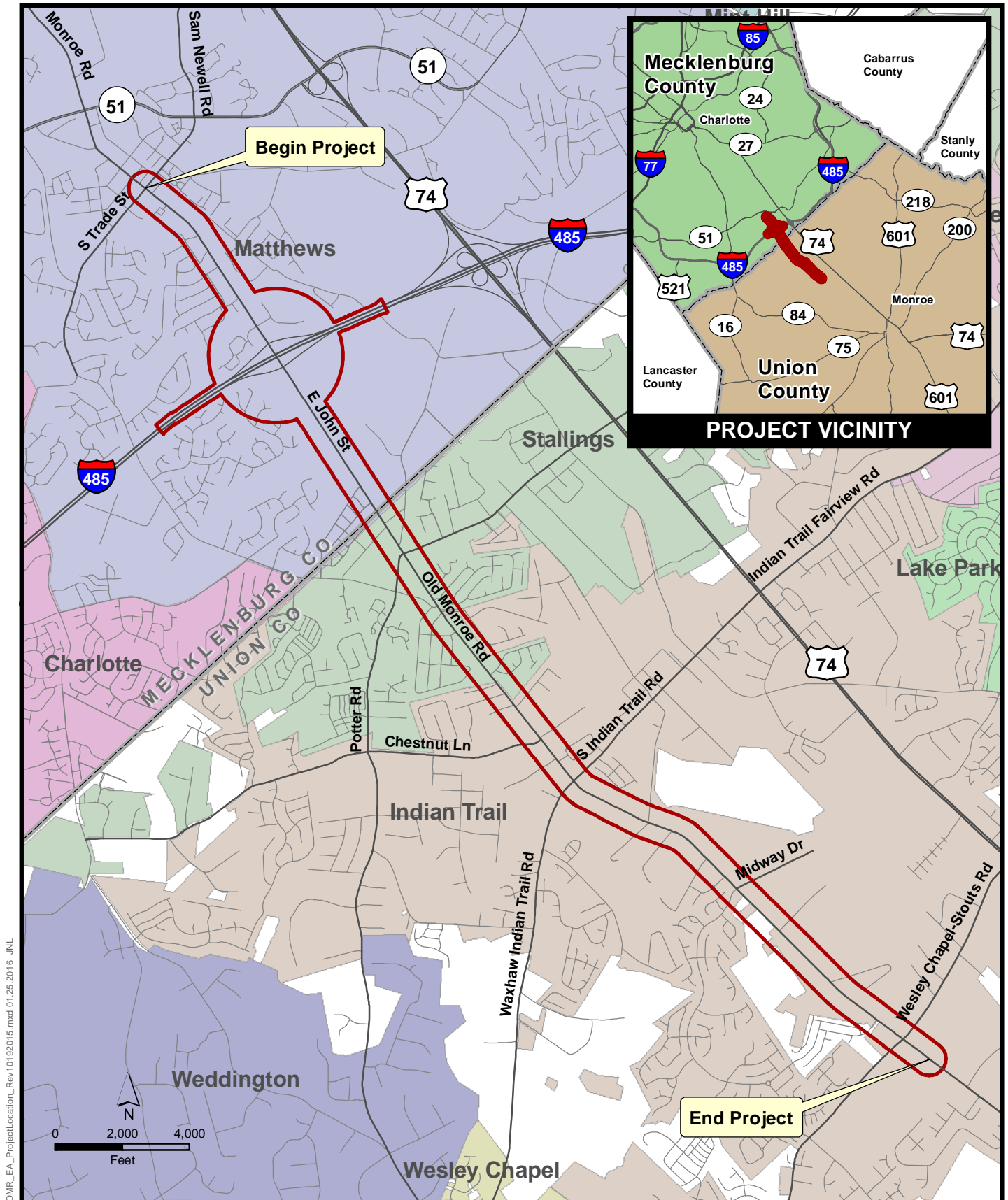
The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Harley, environmental review coordinator, at 919/733-4763. In all future communication concerning this project, please cite the above referenced tracking number.

DL:kge

cc: Mary Pope Furr, NCDOT

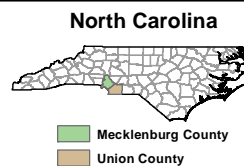
715-1501
**mary Pope*
**733-9794*
**Undre Major*



**E. JOHN STREET/
OLD MONROE ROAD
WIDENING PROJECT**
STIP PROJECT NO. U-4714
Mecklenburg and Union Counties,
North Carolina

Legend
Project Study Area

Source: Union County, NCDOT, Mecklenburg County



**PROJECT VICINITY
AND LOCATION**

FIGURE S-1



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

August 5, 2014

Ramona Bartos, Administrator
State Historic Preservation Office
Deputy State Historic Preservation Officer
4617 Mail Service Center
Raleigh, NC 27699-4617

RE: John Street/Old Monroe Road Widening, Mecklenburg and Union Counties, TIP# U-4714, ER 13-0879

Ms. Bartos,

Thank you for your correspondence of May 17, 2013 regarding the above-mentioned project. In response to comments provided by the Office of State Archaeology (OSA), consultation was held on Tuesday, August 5, 2014, between Paul J. Mohler (NCDOT Archaeologist) and John Mintz (OSA) to review and discuss preliminary design plans for the widening of SR 1009 (John Street/Old Monroe Road) from its intersection with Freemont Street in the Town of Matthews, Mecklenburg County, to its intersection with SR 1377 (Wesley Chapel/Stouts Road) in Union County.

Based on the mapping provided at this meeting as well as a thorough review of soil/landscape conditions, current commercial and residential development, previous archaeological survey results, and the nature and extent of the proposed project, it was determined that the project corridor, as depicted, is unlikely to contain intact and significant archaeological resources. Therefore, OSA does not recommend an archaeological survey be conducted for this project. However, if design plans change, then additional consultation regarding archaeology will be required.

Thank you for your assistance in this matter. If you have any questions concerning this project, please contact me at (919) 707-6089 or Mr. Paul J. Mohler, NCDOT Archaeologist, at (919) 707-6080.

Sincerely,

Matt Wilkerson
Archaeology Supervisor
Human Environment Section

MTW/pjm

cc: Elmo Vance, PDEA
Paul J. Mohler, Archaeology

September 16, 2019

Permit Application



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

September 16, 2019

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

ATTN: Ms. Nicholle Braspennickx
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 14 and Section 401 Water Quality Certification** for the Proposed Interstate Access Addition to I-485 at Weddington Road (SR 3468), Mecklenburg County, Division 10, STIP No. R-0211EC, Debit \$570.00 from WBS 43609.3.2.

Dear Madam:

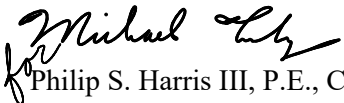
The North Carolina Department of Transportation (NCDOT) proposes to construct a half-clover interchange with ramps and loops in the northeast and southeast quadrants for the interchange at I-485 and Weddington Road (SR 3468) in Mecklenburg County. Bike lanes and a sidewalk are also included and improvements will be made to the Weddington Road and McKee Road intersection.

As a result of the interstate access addition at Weddington Road, there will be 59 linear feet of stream bank stabilization, 66 linear feet of permanent stream impacts, and <0.01 acre of temporary stream impacts.

Please see enclosed copies of the Pre-Construction Notification (PCN), Division of Mitigation Services (DMS) mitigation acceptance letter, Stormwater Management Plan (SMP), permit drawings, roadway plan sheets, northern long-eared bat memo, State Historic Preservation Office (SHPO) concurrence form, and a letter recommending no archaeological survey. An Environmental Assessment (EA) was completed in May 2007 and a Finding of No Significant Impact (FONSI) was completed in February 2009 and distributed shortly thereafter. Additional copies are available upon request.

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 call Erin Cheely at (919) 707-6108.

Sincerely,


Philip S. Harris III, P.E., C.P.M.
Environmental Analysis Unit Head

Cc: NCDOT Permit Application Standard Distribution List

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

Telephone: (919) 707-6000
Fax: (919) 250-4224
Customer Service: 1-877-368-4968
Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610



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: *

Mecklenburg

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:

R-0211EC

WBS # *

43609.3.2

(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

Nationwide Permit (NWP) Number:

14 - Linear transportation

NWP Numbers (for multiple NWPS):

List all NW 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-401 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.

R-0211EC DMS Acceptance 2019.pdf

80.22KB

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? *

North Carolina Department of Transportation, Erin Cheely

1b. Primary Contact Email: *

ekcheely@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6108

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: *

North Carolina Department of Transportation

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(919)250-4224

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

R-0211EC, Interstate Access Addition to I-485 at Weddington Road (SR 3468)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Charlotte/Matthews

2. Project Identification



2a. Property Identification Number:

(tax PIN or parcel ID)

not applicable

2b. Property size:

(in acres)

80.1

2c. Project Address

Street Address

Address Line 2

City

Charlotte/Matthews

Postal / Zip Code

State / Province / Region

NC

Country

USA

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: *

35.089500

ex: 34.208504

Longitude: *

-80.730048

-77.796371

3. Surface Waters

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

Fourmile Creek, Sixmile Creek

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

C

[Surface Water Lookup](#)

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

Catawba

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

030501030105

[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: *

The project area includes the existing I-485 and Weddington Road right-of-way, including paved roadway, maintained shoulder, and adjacent forested areas. Land use in the project vicinity consists primarily of residential and commercial development, interspersed with forestland within undeveloped parcels.

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:

N/A

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

(intermittent and perennial)

371

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

The purpose of the project is to improve access to I-485 from Weddington Road and surrounding communities in Weddington, Matthews, and Charlotte city limits. Currently, Weddington Road is not directly accessible from I-485. The proposed interchange, located between the John Street and NC 16 (Providence Road) interchanges, will provide a closer and improved route from the project area to I-485.

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

The project is located in southeastern Mecklenburg County within City of Charlotte and the town of Matthews and will provide direct access to I-485 for the predominantly residential neighborhoods in the vicinity of the project area.

The project consists of constructing a half-clover interchange with ramps and loops in the northeast and southeast quadrants. This interchange will provide 16-foot wide ramps and 18-foot wide loops. Weddington Road will be widened within the project area to 73-feet from face-of-curb to face-of-curb, and will have five travel lanes and bike lanes. A 6-foot wide sidewalk will be provided on the west side and a 10-foot wide sidewalk will be provided on the east side of Weddington Road, including the bridge over I-485. Left turn lanes will be provided on Weddington Road at the ramp and loop intersections. Improvements will be made to the Weddington Road and McKee Road intersection. Impacts to jurisdictional resources will result from culvert extensions (one 6' x 6' reinforced concrete box culvert and one 72" reinforced concrete pipe) at the proposed interchange ramps and related outfall protection and stream bank stabilization.

An existing sewer line is located within the existing 6' x 6' reinforced concrete box culvert (RCBC). A sewer line extension will be conducted by the City of Charlotte and will be located within the footprint of the culvert extension and bank stabilization at the outlet end of the culvert.

Standard road building equipment, such as loaders, compactors, excavators, dozers, and pavers 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

R-0211EC Permit Drawings.pdf6.25MB

R-0211EC Roadway Plans.pdf17.92MB

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
SAW-2013-02330

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

Name (if known):

Agency/Consultant Company: Environmental Services, Inc., RK&K, and NCDOT

Other:

5d. List the dates of the Corp jurisdiction determination or State determination if a determination was made by the Corps or DWR.

/25/2015 (AJD), 7/1/2019 (PJD) Both of these determinations were for TIP I-5507, but cover R-0211EC resources in their entirety.

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

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	Site 1 - Extend 6'x6' RCBC	Permanent	Culvert	SBF	Perennial	Both	6	16

S2	Site 1 - Rip Rap Fill	Permanent	Rip Rap Fill	SBF	Perennial	Both	6 <i>Average (feet)</i>	34 <i>(linear feet)</i>
S3	Site 1 - Rip Rap Fill	Temporary	Rip Rap Fill	SBF	Perennial	Both	6 <i>Average (feet)</i>	19 <i>(linear feet)</i>
S4	Site 1 - Bank Stabilization	Permanent	Bank Stabilization	SBF	Perennial	Both	6 <i>Average (feet)</i>	6 <i>(linear feet)</i>
S5	Site 1 - Bank Stabilization	Temporary	Bank Stabilization	SBF	Perennial	Both	6 <i>Average (feet)</i>	20 <i>(linear feet)</i>
S6	Site 2 - Extend 72" RCP	Permanent	Culvert	SBE	Perennial	Both	5 <i>Average (feet)</i>	16 <i>(linear feet)</i>
S7	Site 2 - Bank Stabilization	Permanent	Bank Stabilization	SBE	Perennial	Both	5 <i>Average (feet)</i>	53 <i>(linear feet)</i>
S8	Site 2 - Bank Stabilization	Temporary	Bank Stabilization	SBE	Perennial	Both	5 <i>Average (feet)</i>	27 <i>(linear feet)</i>

** 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:

125

3i. Total temporary stream impacts:

66

3i. Total stream and ditch impacts:

191

3j. Comments:

At Sites 1 and 2, the existing culvert is not buried, therefore the culvert extension will not be buried. The bottom elevation of the extended culvert will match the elevation of the existing stream bed. At Site 2, <0.01 (26 lf) of temporary impacts due to construction activities are included within the bank stabilization impacts.

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 final project design avoids and minimizes impacts to streams to the greatest extent practicable. Due to the location of the interchange ramps to be constructed, impacts to streams were unavoidable. Headwalls and wingwalls have been included in the design to shorten fill slopes and reduce stream impact length, protect the ends of the pipe, and guard against erosion. 2:1 slopes will be utilized at each stream crossing to minimize impacts. A preformed scour hole at Station -L- 790+50 LT and dry detention basin at Station Y5LPD- 20+00 RT are included in the design.

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

NCDOT's Best Management Practices (BMPs) for Construction and Maintenance Activities and Protection of Surface Waters will be adhered to. Erosion control devices such as silt fence, rock inlet sediment traps, slope drains, clean water diversions, and silt bags will also be utilized to minimize water quality impacts. Installation of the culvert extensions will be conducted utilizing pump around techniques to dewater the work zone. The pump around at stream crossings will utilize temporary dams, pumps, and stilling basins to divert the channel baseflow around the work area rather than installing a temporary pipe and diversion channel. By using this method, grading in the stream channel will be less intensive and will result in less stream impacts. In locations where temporary construction activities will take place in the stream, the stream bed will be restored to pre-construction contours.

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)

66

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

warm

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)

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

No mitigation is required for the stream bank stabilization or temporary impacts as these impacts do not constitute a loss of waters of the U.S.

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:

The water resources within the project area are not in any buffered basins and not on the main stem of the Catawba River.

2. Stormwater Management Plan

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

☒ Yes ☐ No

Comments:

BMPs that will be used include a dry detention basin, the promotion of sheet flow and infiltration with grassed shoulders except where shoulder berm gutter is required, drainage systems outlet to riprap pads or riprap lined ditches, and riprap on embankments to prevent erosion where ditches enter streams.

The stormwater management plan "R-0211EC_HYD_SMP" is attached at the end of the ePCN.

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.

The areas where development can still occur are minimal therefore this project will have little influence on additional development. The areas that will be directly impacted are mostly built out. It appears that growth in this area has preceded the proposed project. These areas are directly influenced by the zoning the local municipalities have in place. Any additional development in the area would be required to adhere to local stormwater rules.

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.

Asheville

5d. Is another Federal agency involved? *

☐ Yes ☒ No ☐ Unknown

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

☐ Yes ☒ No

5f. Will you cut any trees in order to conduct the work in waters of the U.S.? *

☒ Yes ☐ No

5g. Does this project involve bridge maintenance or removal? *

☐ Yes ☒ No

Link to the NLEB SLOPES document: http://saw-reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf

5h. Does this project involve the construction/installation of a wind turbine(s)? *

☐ Yes ☒ No

5i. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.? *

☒ Yes ☐ No

If yes, please provide details to include type of percussive activity, purpose, duration, and specific location of this activity on the property.

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

File must be PDF

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

The USFWS county list, North Carolina Natural Heritage Program (NCNHP) data explorer, October 2018 Freshwater Mussel Survey Report, and August 2018 NEPA Construction Consultation were used. A biological conclusion of No Effect was rendered for Carolina heelsplitter, Michaux's Sumac, Schweinitz's sunflower, and smooth coneflower. NCDOT determined that the proposed action does not require separate consultation for the northern long-eared bat on the grounds that the proposed action is consistent with the final 4(d) rule under Section 7 of the Endangered Species Act (see attached memo). The rusty-patched bumble bee was recently listed as endangered but as a historic record. Because the project area is in the historical range of rusty-patched bumble bee, no Section 7 consultation is needed.

Consultation Documentation Upload

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

I-5507 & R-0211EC Mecklenburg 4(d) NLEB memo 2019.pdf

202.39KB

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? *

National Oceanic and Atmospheric Administration Essential Fish Habitat Mapper

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? *

May 2007 Environmental Assessment, August 2018 NEPA Construction Consultation, and State Historic Preservation Office HPOWEB GIS Service

7c. Historic or Prehistoric Information Upload

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

R-0211EC SHPO Concurrence Form.pdf

39.05KB

R-0211EC SHPO Letter - Recommendation No Archaeological Survey.pdf

50.58KB

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

8c. What source(s) did you use to make the floodplain determination? *

FEMA Floodplain Maps

Miscellaneous

Comments

This TIP is being permitted and constructed concurrently with I-5507 and U-4714AB. Separate permit applications are being prepared and submitted for I-5507 and U-4714AB.

Miscellaneous attachments not previously requested.

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

R-0211EC_HYD_SMP.pdf	156.77KB
R-0211 EC Cover Letter.pdf	300.78KB

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: *

Michael Turchy

Signature

Michael Turchy

Date

9/16/2019



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

TIM BAUMGARTNER
Director

September 13, 2019

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

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

R-0211EC, New Interchange on I-485 and SR 3468 (Weddington Road), Mecklenburg County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory stream mitigation for the subject project. Based on the information supplied by you on September 13, 2019, the impacts are located in CU 03050103 of the Catawba River basin in the Southern Piedmont (SP) Eco-Region, and are as follows:

Catawba 03050103 SP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	66.0	0	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.

This mitigation acceptance letter replaces the mitigation acceptance letters issued on March 12 and August 31, 2018. The impacts and associated mitigation needs were under projected by the NCDOT in the 2019 impact data. DMS will commit to implement sufficient compensatory stream 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 and consistent with the Guidance for Expanded Service Area for Mitigating Impacts within the Lower Catawba River Basin approved by the IRT. 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: R-0211EC Revised





North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 2.08; Released April 2018)

WBS Element: TIP No.: R-0211EC County(ies): Mecklenburg Page 1 of 3

General Project Information

WBS Element:			TIP Number:	R-0211EC		Project Type:	Roadway Widening		Date:	6/7/2019
NCDOT Contact:		Malcolm Watson			Contractor / Designer:		Blythe Construction/WSP (Karl Dauber)			
	Address:	1020 Birch Ridge Drive Raleigh, NC 27610				Address:	1001 Morehead Square Drive Suite 610 Charlotte, NC 28203			
	Phone:	(919) 707-6614				Phone:	(704) 342-5403			
	Email:	mcwatson@ncdot.gov				Email:	Karl.Dauber@wsp.com			
City/Town:		Charlotte			County(ies):	Mecklenburg				
River Basin(s):		Catawba			CAMA County?	No				
Wetlands within Project Limits?		Yes								

Project Description

Project Length (lin. miles or feet):	0.8 miles	Surrounding Land Use:	Urban (residential and commercial)
		Proposed Project	Existing Site
Project Built-Up Area (ac.)	14.1 ac.	13.7 ac.	
Typical Cross Section Description:	There are several cross sections for this project in the typicals provided with the Redline Drainage Plans. Essentially, the project adds toll lanes in the median. In some cases a ditch section is revised to provide pavement. In other cases a large paved median is reduced to account for this new traffic pattern.		
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 1592 Year: 2040	Existing: 1186 Year: 2015	
General Project Narrative: (Description of Minimization of Water Quality Impacts)	The NCDOT is widening a section of I-485 that lies within the municipal boundaries of the Cities of Charlotte and Matthews. The Design-Build Project I-5507 / R-0211EC / U-4714AB will provide an eastbound and westbound Express Lane within the I-485 median from I-77 to US 74 (Independence Boulevard), a distance of approximately 16.6 miles. The project will also provide an I-485 / Weddington Road interchange, and modify the I-485 / East John Street - Old Monroe Road interchange. The Impacts for R-0211 EC are located on Sheets 60 and 61 of the plan set and are in relation to the widening of 485 that is needed to accommodate a new interchange at Weddington Road. Construction will unavoidably impact several streams. Where practicable, 2:1 slopes will be used to minimize impacts. Where culverts are being extended in jurisdictional streams rip rap for stabilization is being installed on banks only. <u>Best Management Practices:</u> *Dry Detention Basin. *Promotion of sheet flow and infiltration with grassed shoulders except where shoulder berm gutter was required. *Drainage systems outlet to rip rap pads or riprap lined ditches. *Riprap on embankments was used to prevent erosion where ditches enter streams.		

*

Surface Water Body (1):	Fourmile Creek	NCDWR Stream Index No.:	11-137-9-4
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C
		Supplemental Classification:	
Other Stream Classification:	None		
Impairments:	None		
Aquatic T&E Species?	Comments:		
NRTR Stream ID:	SBF SBE	Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	No
Deck Drains Discharge Over Water Body?	No	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)	



Page 2 of 3

* Refer to the NCDOT Best Management Practices Toolbox (2014), NCDOT Standards, the Federal Highway Administration (FHWA) Hydraulic Engineering Circular No. 14 (HEC-14), Third Edition, Hydraulic Design of Energy Dissipators for Culverts and Channels (July 2006), as applicable, for design guidance and criteria.

Additional Comments

9/12/2019
\\prodw\cs01\cs_workingdir\309\336401_4043\R-0211EC_hyd_prm_wet_psh01_TSH.dgn
PROP\CS01

TIP PROJECT: R-0211EC

CONTRACT: C203970

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

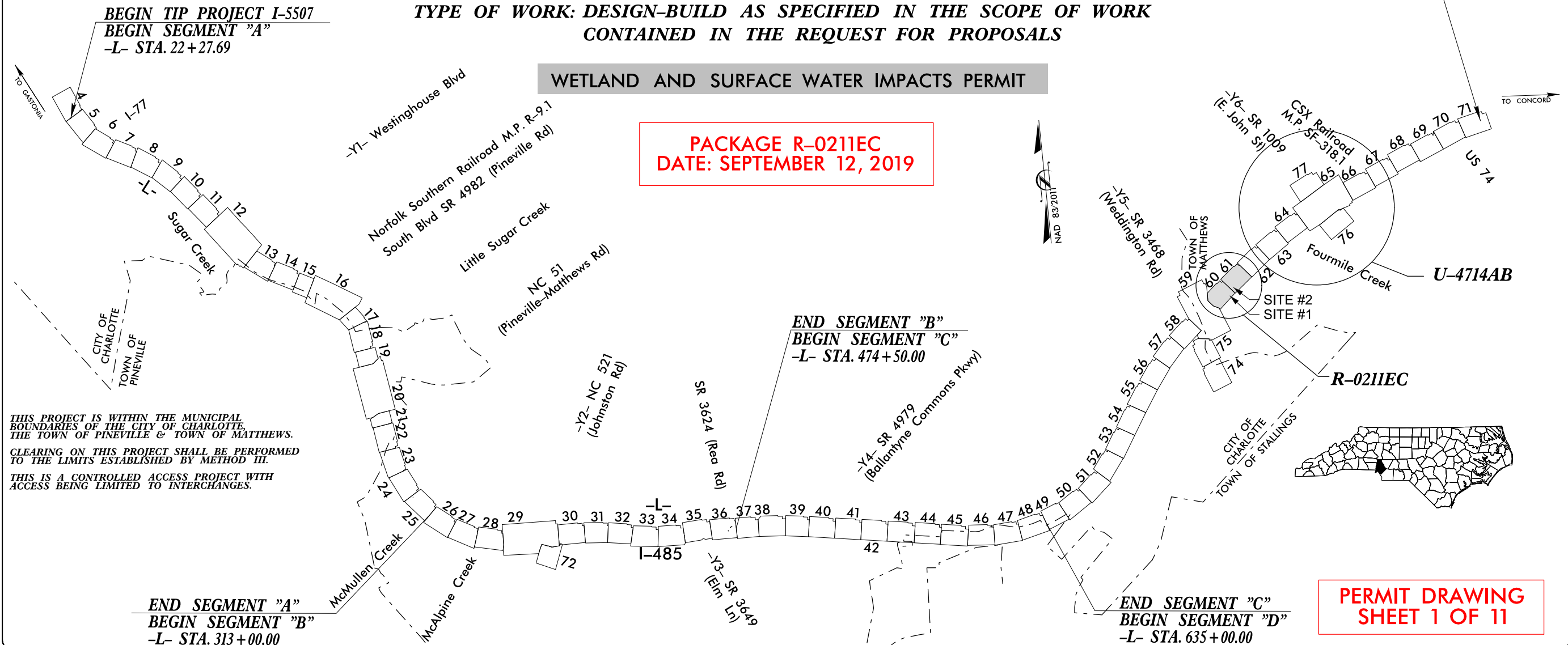
MECKLENBURG COUNTY

LOCATION: I-485 FROM I-77 TO US 74 (INDEPENDENCE BOULEVARD) (I-5507);
I-485 / WEDDINGTON ROAD INTERCHANGE (R-0211EC); AND I-485 /
EAST JOHN STREET - OLD MONROE ROAD INTERCHANGE (U-4714AB)

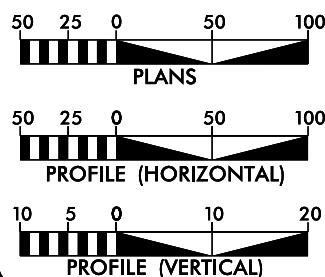
TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK
CONTAINED IN THE REQUEST FOR PROPOSALS

WETLAND AND SURFACE WATER IMPACTS PERMIT

PACKAGE R-0211EC
DATE: SEPTEMBER 12, 2019



GRAPHIC SCALES



DESIGN DATA

ADT 2018 = 118,400
ADT 2040 = 159,200
DHV = 9 %
D = 55 %
T = 9 % *
V = 70/75 MPH
*(TTST 4 + DUAL 5)
FUNCTIONAL CLASSIFICATION:
INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT I-5507 = 17.137 mi
LENGTH OF STRUCTURES TIP PROJECT I-5507 = 0.395 mi
(BASED ON 485 WB BRIDGES)
TOTAL LENGTH OF TIP PROJECT I-5507 = 17.532 mi

NCDOT CONTACT:

TIM MCFADDEN, PE
DESIGN-BUILD PROJECT ENGINEER -
TRANSPORTATION PROGRAM MANAGEMENT UNIT

Prepared In the Office of:

wsp

1001 Morehead Square Dr.
Suite 610
Charlotte, NC, 28203
NC LIC NO. F-0165

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY:
SEPTEMBER 18, 2018

LETTING DATE:
SEPTEMBER 18, 2018

DANIEL H. BRIDGES, PE
DESIGN PROJECT MANAGER

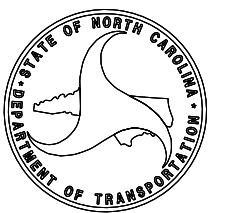
DAVID B. GOURLEY, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

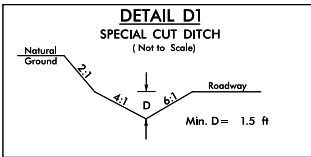
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ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.

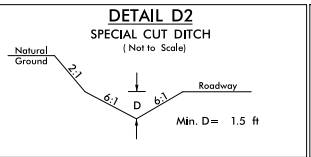
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



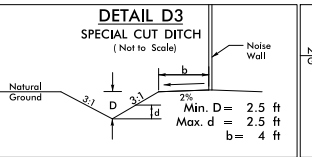
PROJECT REFERENCE NO.		SHEET NO.
R-0211EC		2D-1
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
<div>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</div>		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



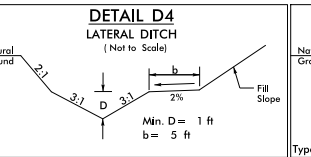
-L- FROM STA. 615+81 TO 619+50 LT
-L- FROM STA. 688+57 TO 701+37 LT
-L- FROM STA. 706+21 TO 711+00 LT
-L- FROM STA. 753+98 TO 760+32 LT
-L- FROM STA. 794+62 TO 795+50 LT
-L- FROM STA. 764+81 TO 767+50 LT
-L- FROM STA. 916+63 TO 917+50 LT
-L- FROM STA. 929+50 TO 931+50 LT
-L- FROM STA. 709+81 TO 713+00 RT
-L- FROM STA. 804+50 TO 805+50 RT
-L- FROM STA. 901+00 TO 905+17 RT
-Y5RPD- FROM STA. 24+00 TO 26+50 RT
-Y6RPC- FROM STA. 24+50 TO 26+50 RT



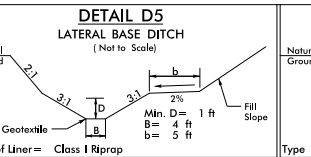
-L- FROM STA. 615+81 TO 619+50 LT



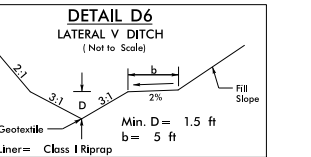
-L- FROM STA. 628+73 TO 634+63 LT



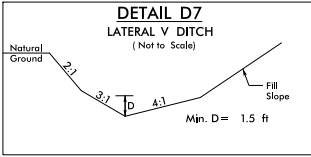
-L- FROM STA. 890+47 TO 892+50 LT
-L- FROM STA. 898+00 TO 900+00 LT
-L- FROM STA. 936+50 TO 940+50 LT
-L- FROM STA. 885+00 TO 888+19 RT
-L- FROM STA. 892+00 TO 897+09 RT



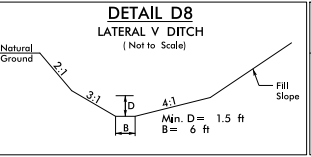
-L- FROM STA. 791+50 TO 793+50



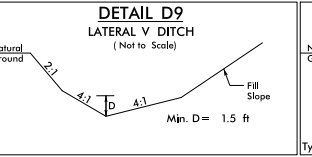
-L- FROM STA. 835+50 TO 837+27 LT
-L- FROM STA. 893+84 TO 898+00 LT
-L- FROM STA. 888+19 TO 890+77 RT
-L- FROM STA. 890+91 TO 892+00 RT
-L- FROM STA. 897+24 TO 899+50 RT



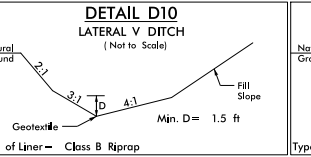
-Y5LPA- FROM STA. 14+78 TO 15+28 LT
-Y5RPA- FROM STA. 20+24 TO 22+00 LT



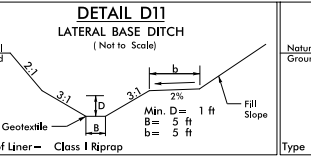
-Y5LPA- FROM STA. 15+28 TO 15+73



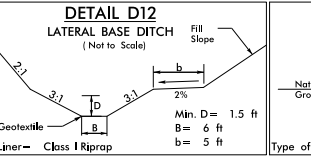
-Y5LPA- FROM STA. 15+73 TO 17+00 LT



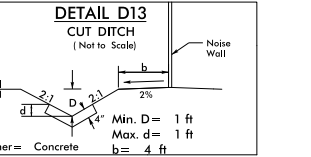
-Y5RPA- FROM STA. 19+50 TO 20+24 LT



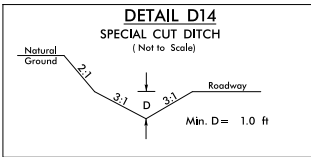
-L- FROM STA. 788+50 TO 790+00



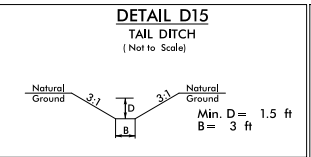
-Y6RPB- FROM STA. 9+77 TO 11+02 LT



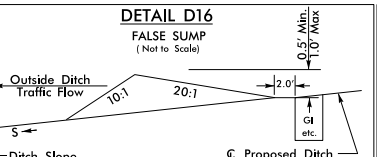
-L- FROM STA. 706+50 TO 711+41 RT
-L- FROM STA. 727+77 TO 729+44 RT
-Y6RPB- FROM STA. 15+11 TO 22+63 RT



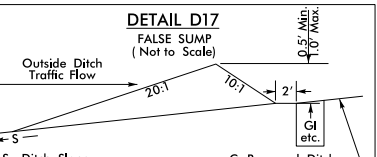
-Y6LPA- FROM STA. 10+74 TO 11+87 LT



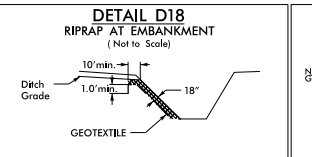
-L- STA. 777+37 LT



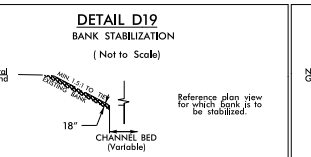
-L- STA. 794+55 LT
-L- STA. 709+74 RT
-L- STA. 760+50 RT
-L- STA. 774+58 RT
-L- STA. 827+52 RT
-Y6RPB- STA. 17+70 LT



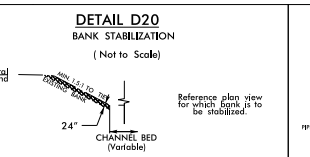
-L- STA. 701+58 LT
-L- STA. 827+52 LT
-L- STA. 835+03 LT
-L- STA. 617+94 RT
-L- STA. 795+69 RT
-L- STA. 808+22 RT
-Y5RPA- STA. 15+25 LT
-Y5RPD- STA. 21+39 LT
-Y5RPD- STA. 21+31 RT



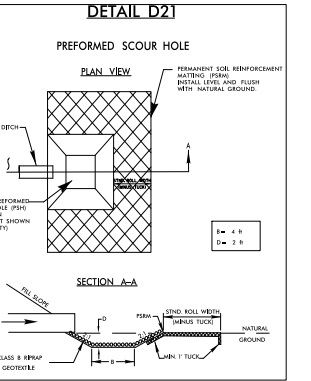
-L- STA. 615+00 LT
-L- STA. 654+53 LT
-L- STA. 654+58 LT
-L- STA. 658+97 LT
-L- STA. 683+21 LT
-L- STA. 729+85 LT
-L- STA. 730+13 LT
-L- STA. 741+73 LT
-L- STA. 746+32 LT
-L- STA. 791+36 LT
-L- STA. 808+85 LT
-L- STA. 816+10 LT
-L- STA. 818+86 LT
-L- STA. 890+43 LT
-L- STA. 893+74 LT
-L- STA. 893+80 LT
-L- STA. 910+17 LT
-L- STA. 612+67 RT
-L- STA. 730+00 RT
-L- STA. 730+04 RT
-L- STA. 740+42 RT
-L- STA. 740+45 RT
-L- STA. 746+32 RT
-L- STA. 749+98 RT
-L- STA. 750+09 RT
-L- STA. 788+69 RT
-L- STA. 792+60 RT
-L- STA. 806+28 RT
-L- STA. 806+46 RT
-L- STA. 818+46 RT
-L- STA. 837+46 RT
-L- STA. 890+82 RT
-L- STA. 890+86 RT
-L- STA. 897+08 RT
-L- STA. 897+16 RT
-Y6RPC- STA. 15+28 RT



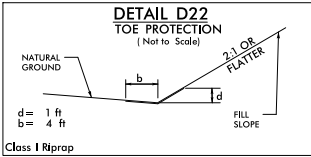
-L- STA. 764+97 LT
-L- STA. 890+34 LT
-L- STA. 893+72 LT
-Y19RPC- STA. 18+60 RT
-Y19RPC- STA. 18+64 RT



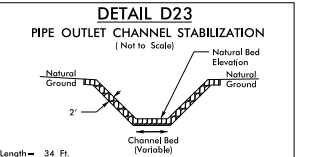
-L- STA. 837+91 LT
-L- STA. 838+91 LT
-Y6RPC- STA. 19+10 RT



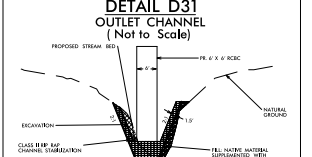
-L- STA. 790+75 LT



-L- FROM STA. 651+50 TO 654+49 LT
-L- FROM STA. 654+64 TO 656+50 LT
-L- FROM STA. 814+50 TO 816+04 LT
-L- FROM STA. 845+32 TO 854+00 LT
-L- FROM STA. 649+50 TO 653+10 RT
-L- FROM STA. 791+44 TO 792+52 RT
-Y5RPA- FROM STA. 21+43 TO 24+00 RT
-Y6LPC- FROM STA. 12+03 TO 13+79 RT
-Y6RPC- FROM STA. 19+26 TO 20+55 RT
-Y6RPC- FROM STA. 23+69 TO 24+87 RT



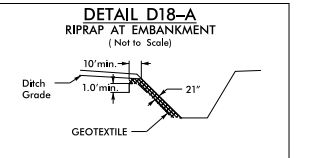
-L- STA. 790+14 LT



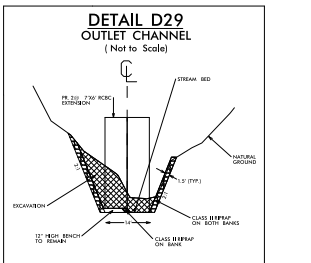
-L- STA. 789+30



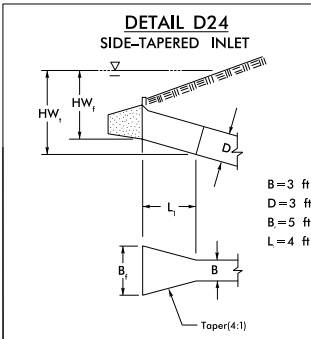
-L- STA. 841+00



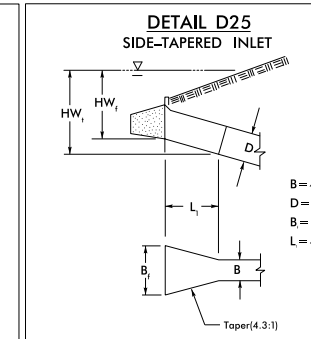
-Y6- STA. 129+88 LT



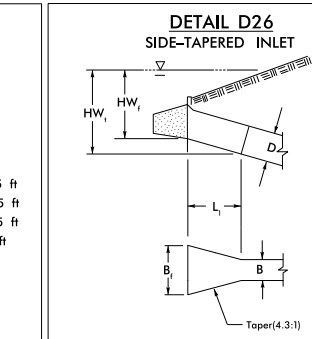
-L- STA. 837+70 LT



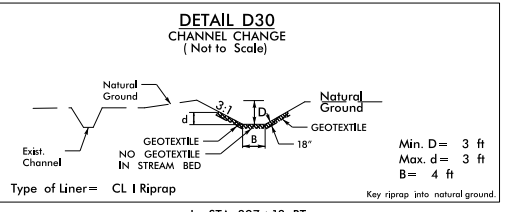
-L- STA. 641+48 LT



-L- STA. 749+91 RT
-Y24RPA- STA. 18+83 RT

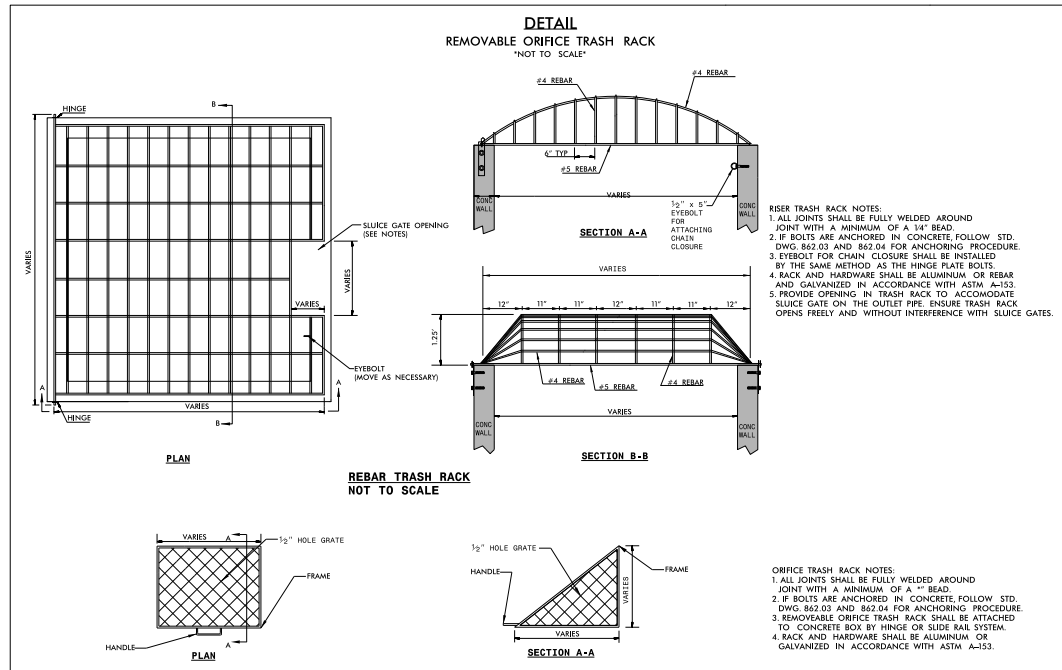


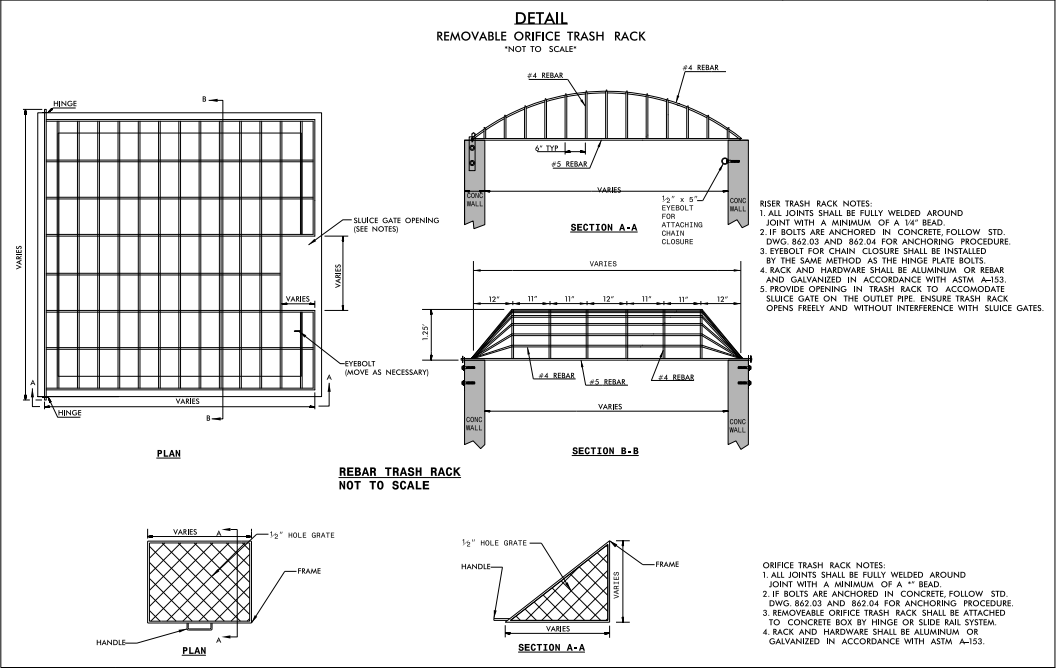
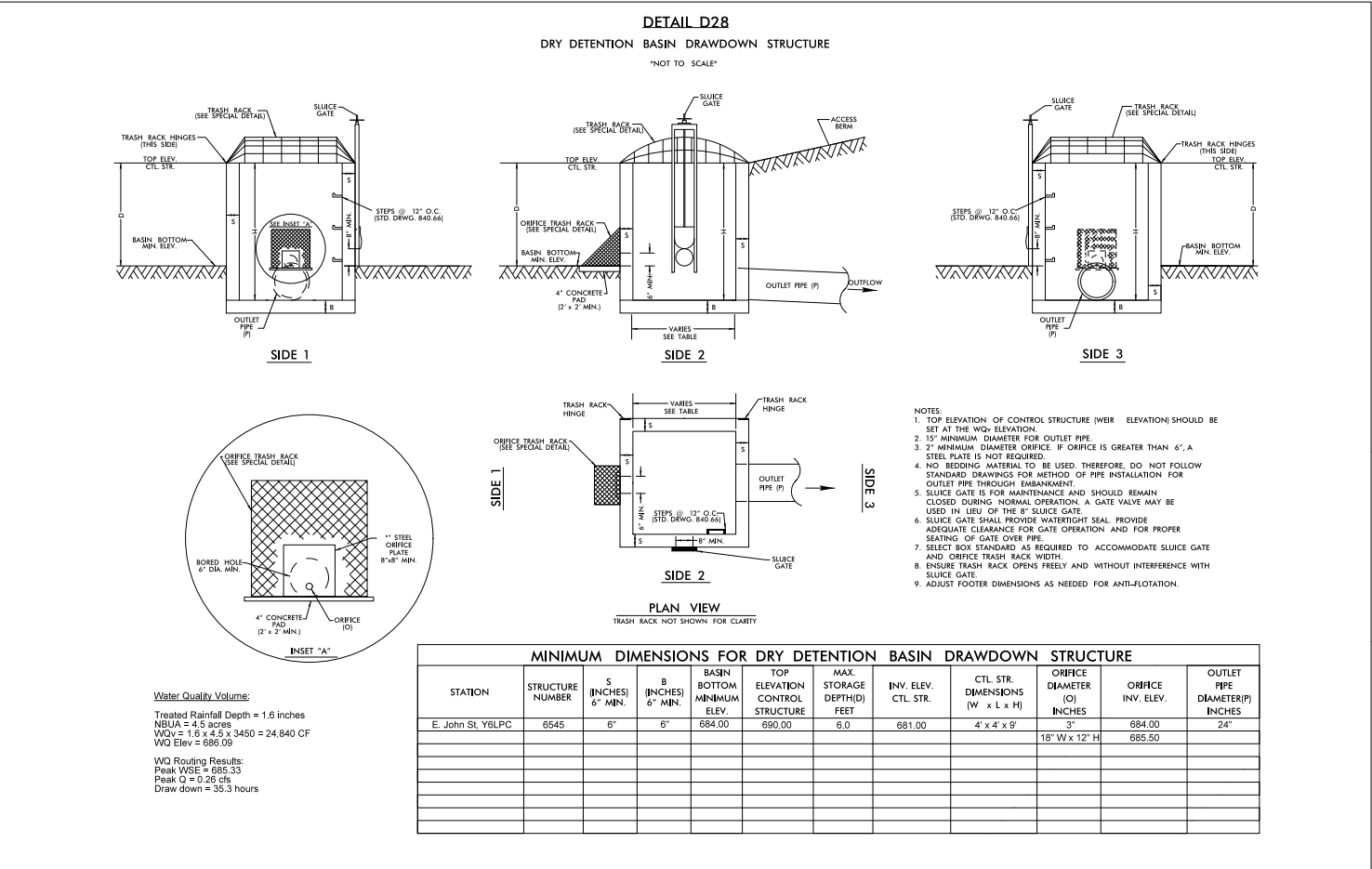
-L- STA. 644+52 LT



-L- STA. 897+13 RT

PERMIT DRAWING
SHEET 2 OF 11



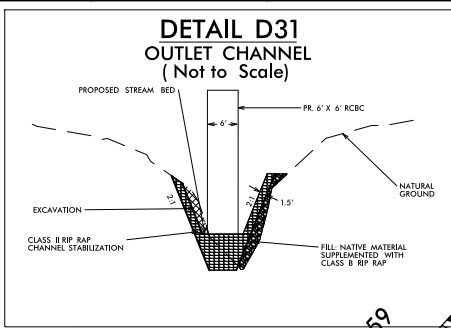


PERMIT DRAWING
SHEET 4 OF 11

8/17/99

REVISIONS
1. 9/5/19 - ADDED BOXES 6050 AND 6060.

9/12/2019
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P:\WCS\01

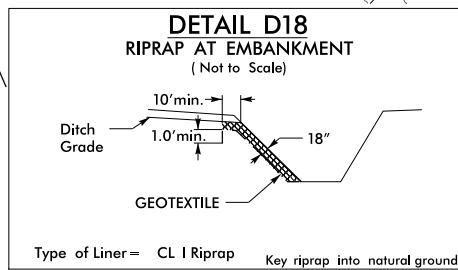


-L- STA. 789 + 30

MATCH LINE SEE SHEET 59
STA. 20 + 00.00

MATCH LINE SEE SHEET 59
-L- STA. 778 + 50.00

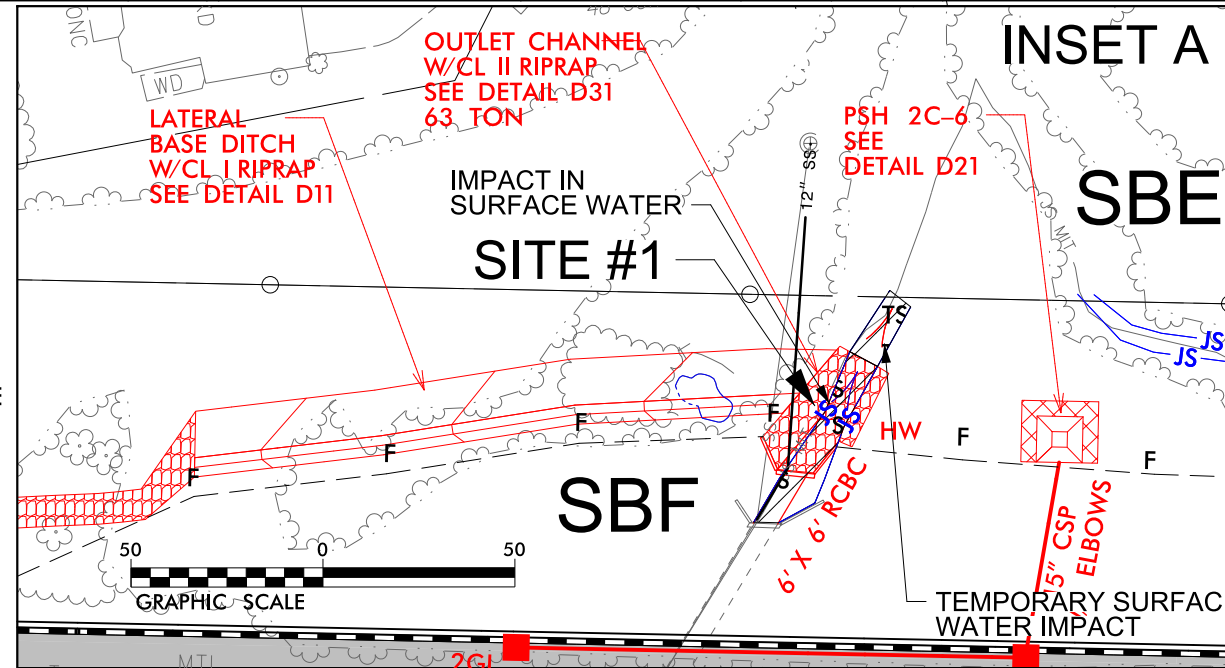
MATCH LINE SEE SHEET 59
STA. 16 + 25.00



Type of Liner = CL I Riprap Key riprap into natural ground.


S S
DENOTES IMPACTS IN
SURFACE WATER

TS TS
DENOTES TEMPORARY
IMPACTS IN SURFACE
WATER

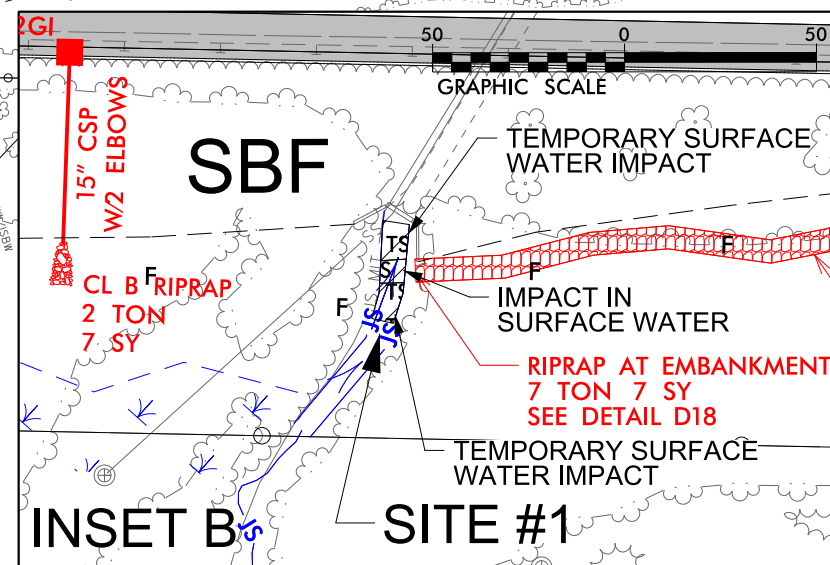


SITE #1 NOTE:
THE EXISTING CULVERT IS NOT BURIED, THEREFORE
THE CULVERT EXTENSION WILL NOT BE BURIED. THE
BOTTOM ELEVATION OF THE EXTENDED CULVERT WILL
MATCH THE ELEVATION OF THE EXISTING STREAM BED.

wsp
1001 Morehead Square Dr.
Suite 610
Charlotte NC, 28203
NC LIC NO. F-0165

PROJECT REFERENCE NO. R-0211EC		SHEET NO. 60			
RW SHEET NO.		HYDRAULICS ENGINEER			
ROADWAY DESIGN ENGINEER					
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					
					

S S DENOTES IMPACTS IN
SURFACE WATER
TS TS DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



S S
DENOTES IMPACTS IN
SURFACE WATER

TS TS
DENOTES TEMPORARY
IMPACTS IN SURFACE WATER

100 0 100
GRAPHIC SCALE

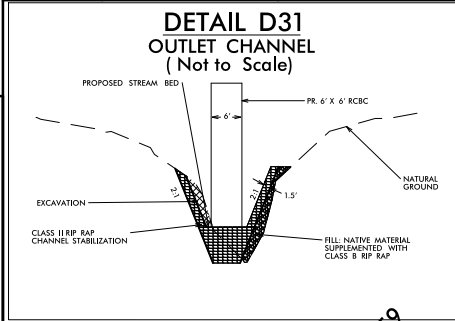
PERMIT DRAWING
SHEET 5 OF 11

MATCH LINE SEE SHEET 61
-L- STA. 791 + 00.00

8/17/99

REVISIONS
1. 9/5/99 - ADDED BOXES 6050 AND 6060.

9/12/2019
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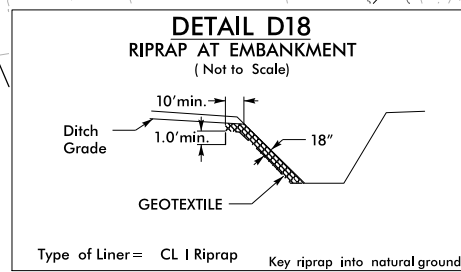


-L- STA. 789+30

MATCH LINE SEE SHEET 59
STA. 20+00.00

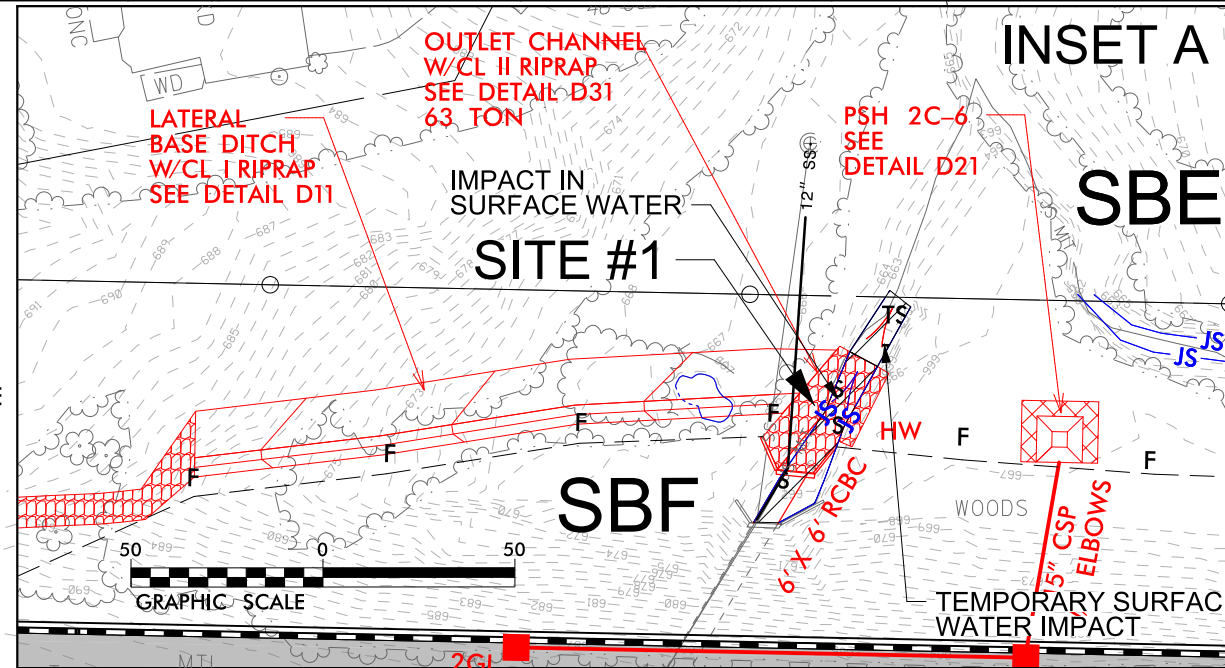
MATCH LINE SEE SHEET 59
-L- STA. 778+50.00

MATCH LINE SEE SHEET 59
STA. 16+25.00



S S
DENOTES IMPACTS IN
SURFACE WATER

TS TS
DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



SITE #1 NOTE:
THE EXISTING CULVERT IS NOT BURIED, THEREFORE
THE CULVERT EXTENSION WILL NOT BE BURIED. THE
BOTTOM ELEVATION OF THE EXTENDED CULVERT WILL
MATCH THE ELEVATION OF THE EXISTING STREAM BED.

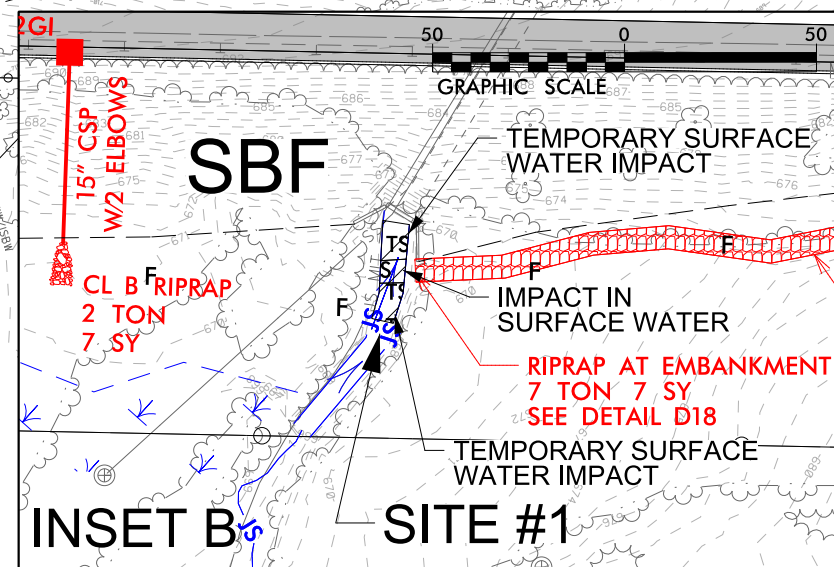
wsp 1001 Morehead Square Dr.
Suite 610
Charlotte NC, 28203
NC LIC NO. F-0165

PROJECT REFERENCE NO.		SHEET NO.	
R-0211EC		60	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

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

BLYTHE

S S DENOTES IMPACTS IN
SURFACE WATER
TS TS DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



S S
DENOTES IMPACTS IN
SURFACE WATER

TS TS
DENOTES TEMPORARY
IMPACTS IN SURFACE WATER

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GRAPHIC SCALE

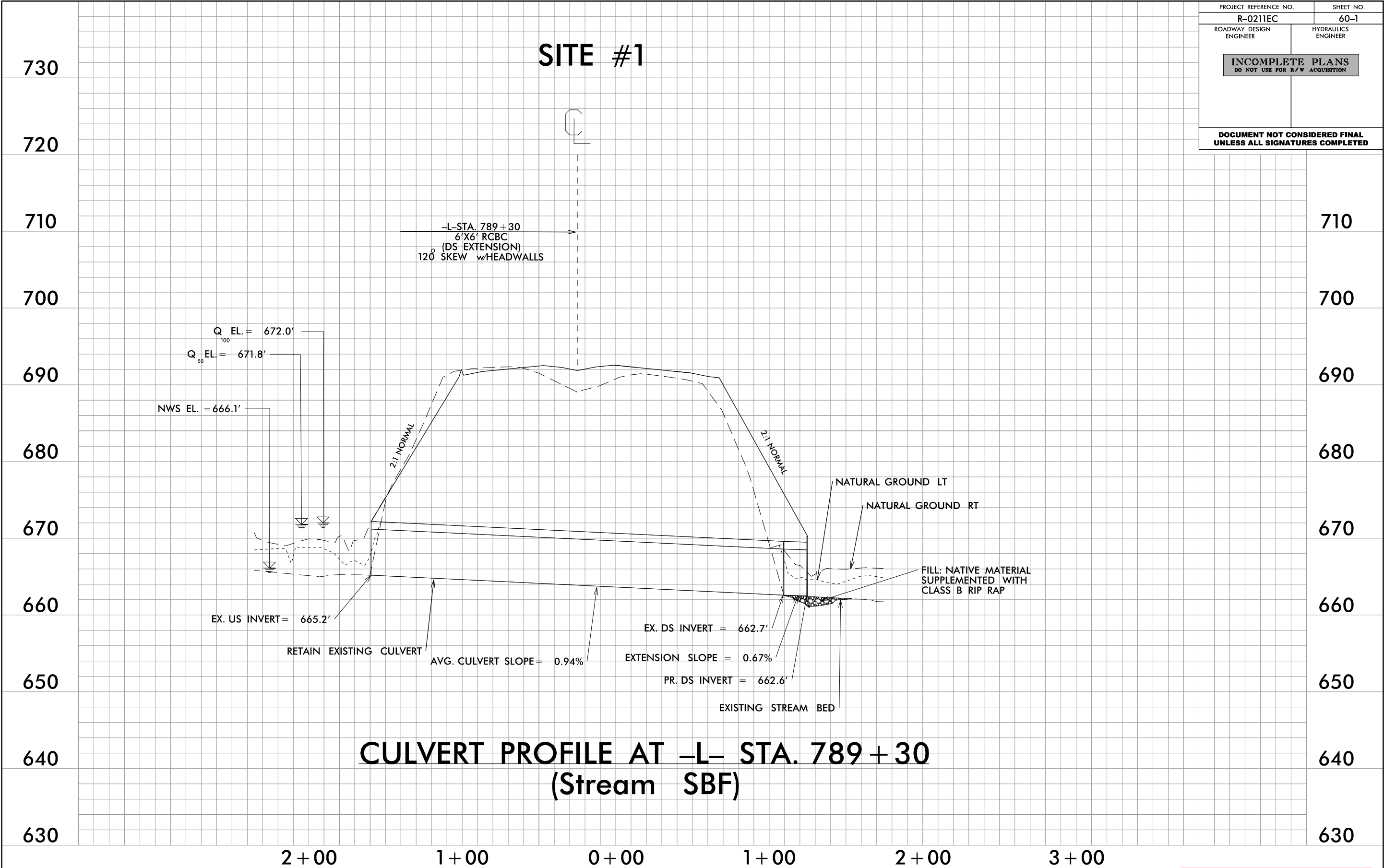
**PERMIT DRAWING
SHEET 6 OF 11**

MATCH LINE SEE SHEET 61
-L- STA. 791+00.00

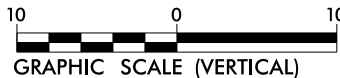
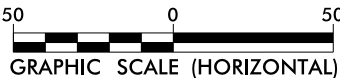
5/28/99

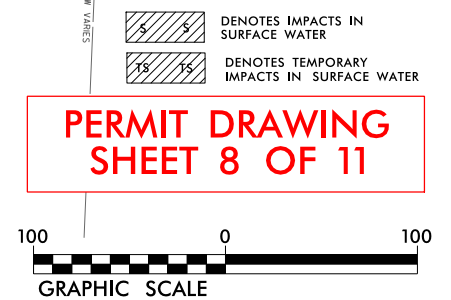
9/12/2019
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PRDWCS01

PROJECT REFERENCE NO.		SHEET NO.
R-0211EC		60-1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



PERMIT DRAWING
SHEET 7 OF 11





MATCH LINE SEE SHEET 62
-L- STA. 803+00.00

MATCH LINE SEE SHEET 60
-L- STA. 791+00.00



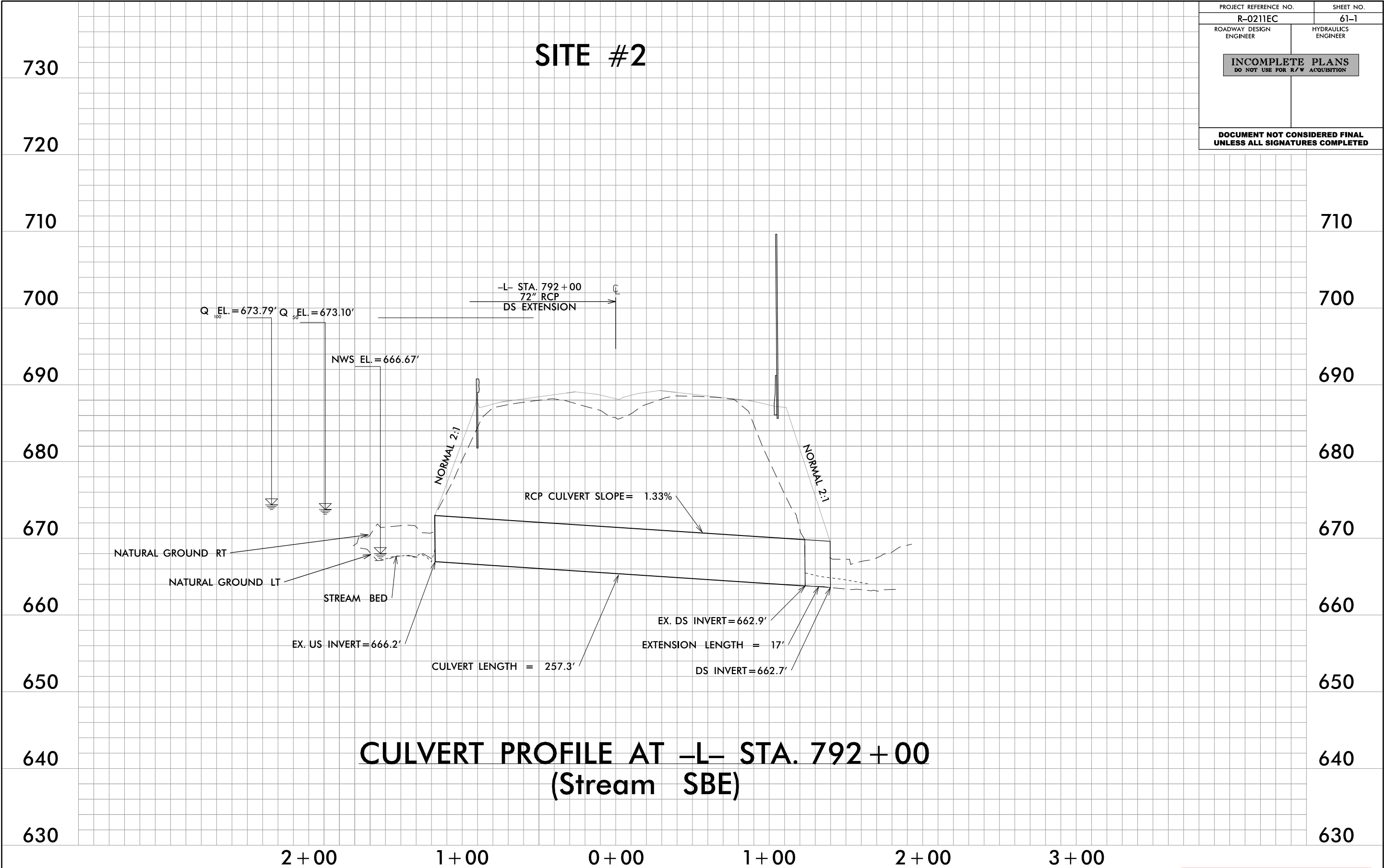
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GRAPHIC SCALE

5/28/99

9/12/2019
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PDEWICS01

PROJECT REFERENCE NO.		SHEET NO.
R-0211EC		61-1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



**PERMIT DRAWING
SHEET 10 OF 11**



WETLAND AND SURFACE 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)
1	790+00 -L- (LT)	Extend 6' x 6' RCBC						< 0.01		16		
1	790+00 -L (LT)	Riprap Fill						< 0.01	< 0.01	34	19	
1	788+50 -L- (RT)	Bank Stabilization						< 0.01	< 0.01	6	20	
2	791+30 -L-	Extend 72" RCP						< 0.01		16		
2	791+30/792+70 -L-	Bank Stabilization						< 0.01	< 0.01	53	27	
TOTALS*:								0.02	< 0.01	125	66	0

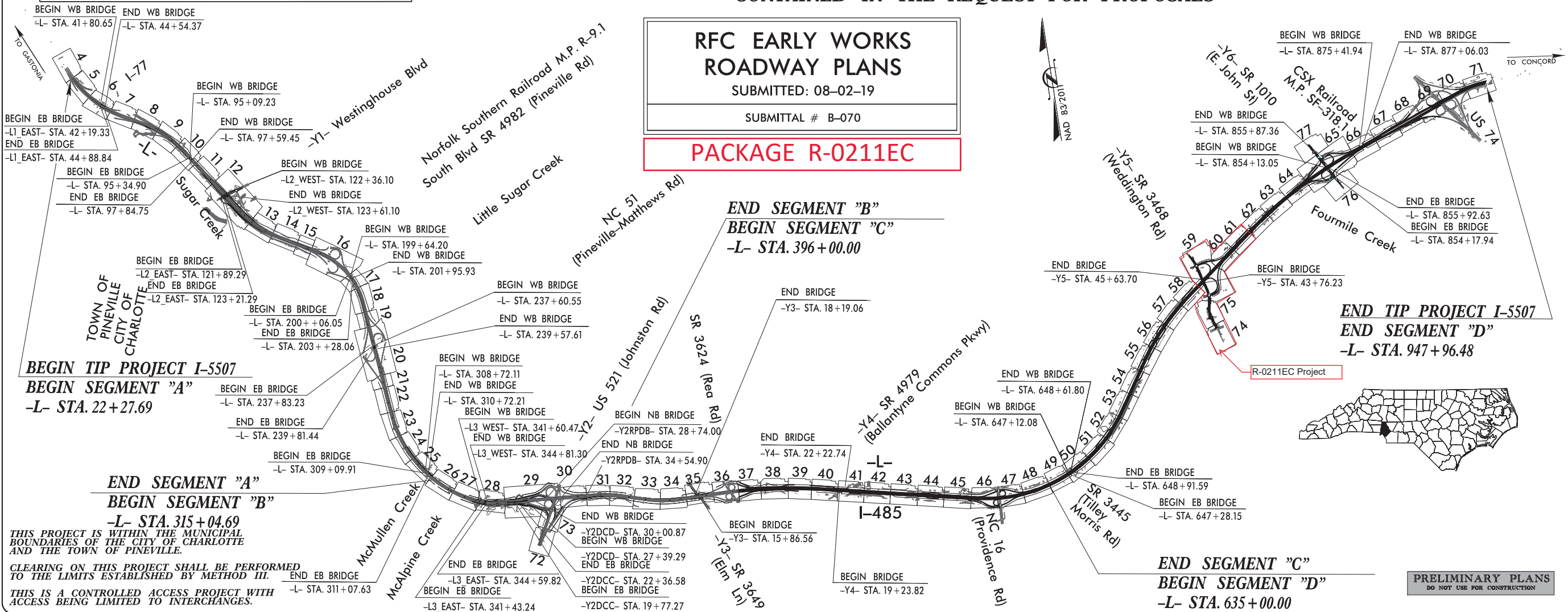
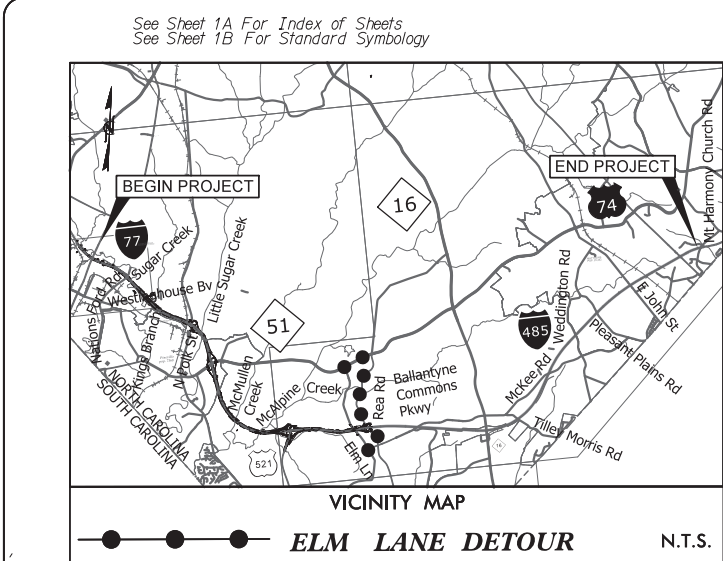
NOTES:

At Site 2, <0.01 ac (26 lf) of temporary impacts due to construction activities are included within the bank stabilization impacts.

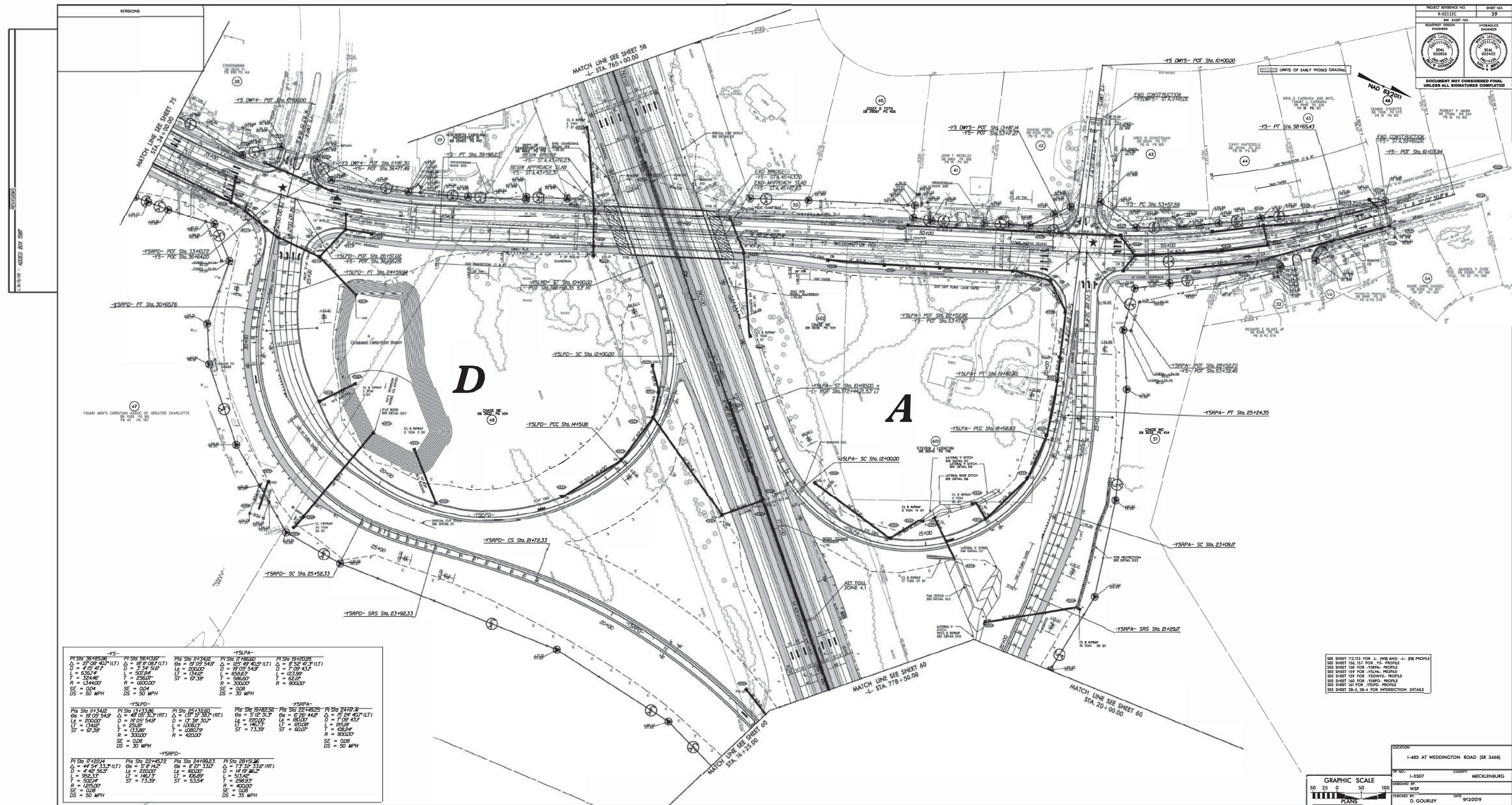
SHEET 11 OF 11

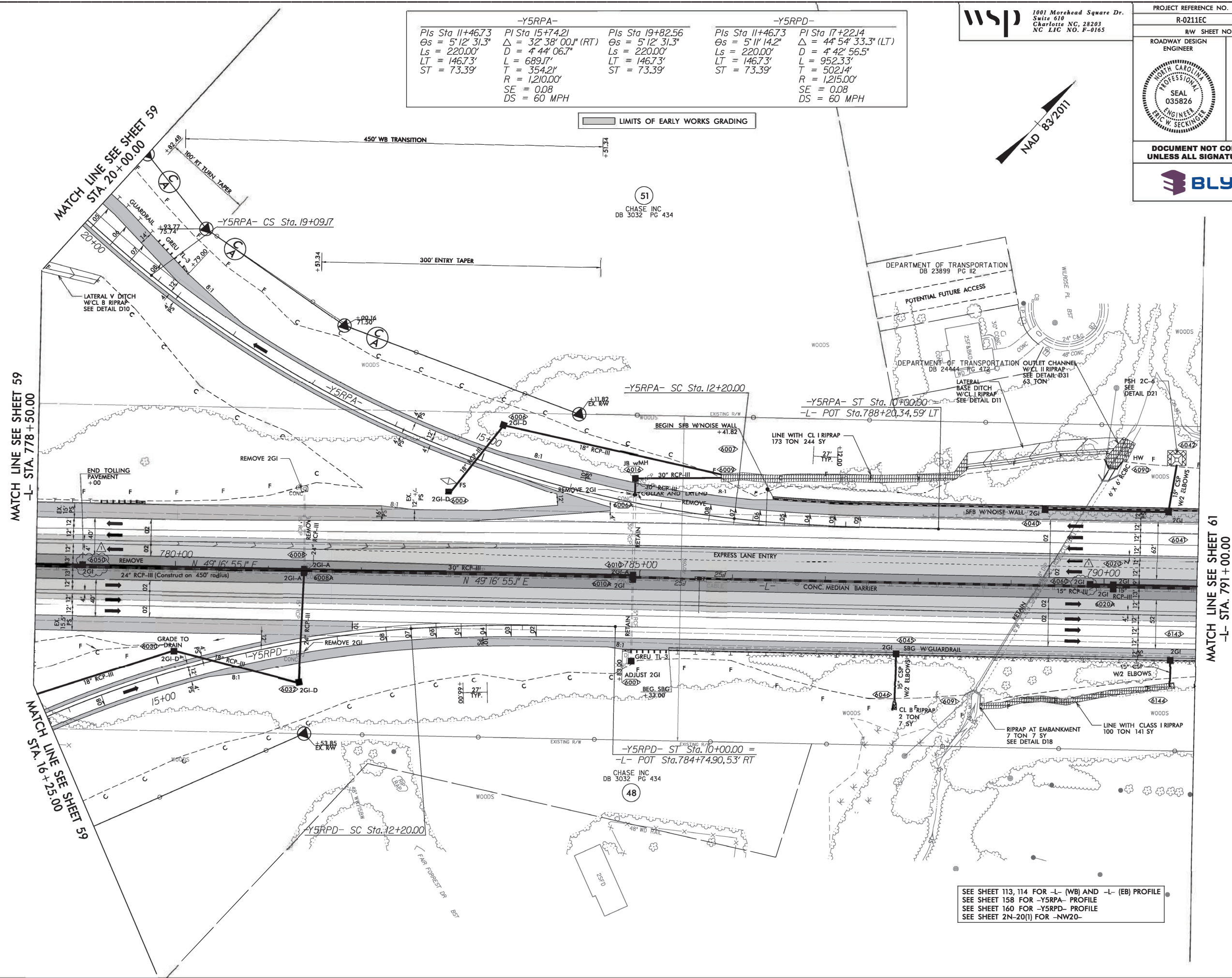
8/28/2019
\\prodwisc01\cs_workingdir\2014\335941_3573\I5507_rdy_TSH.dgn
PROP\I5507

CONTRACT: C203970 TIP PROJECT: I-5507R-0211ECU-4714AB



<p>GRAPHIC SCALES</p> <p>50 25 0 50 100</p> <p>PLANS</p> <p>50 25 0 50 100</p> <p>PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20</p> <p>PROFILE (VERTICAL)</p>	<p>DESIGN DATA</p> <p>ADT 2018 = 118,400</p> <p>ADT 2040 = 159,200</p> <p>DHV = 9 %</p> <p>D = 55 %</p> <p>T = 9 % *</p> <p>V = 70/75 MPH</p> <p>*(TTST 4 + DUAL 5)</p> <p>FUNCTIONAL CLASSIFICATION: INTERSTATE STATEWIDE TIER</p>	<p>PROJECT LENGTH</p> <p>LENGTH OF ROADWAY TIP PROJECT I-5507 = 17.137 mi</p> <p>LENGTH OF STRUCTURES TIP PROJECT I-5507 = 0.395 mi (BASED ON 485 WB BRIDGES)</p> <p>TOTAL LENGTH OF TIP PROJECT I-5507 = 17.532 mi</p> <p>NCDOT CONTACT: TIM MCFADDEN, PE DESIGN BUILD PROJECT ENGINEER - TRANSPORTATION PROGRAM MANAGEMENT UNIT</p>	<p>Prepared In the Office of:</p> <p>WSP BLYTHE</p> <p>FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p> <p>2018 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY: SEPTEMBER 18, 2018</p> <p>LETTING DATE: SEPTEMBER 18, 2018</p> <p>DAVID B. GOURLEY, PE PROJECT ENGINEER</p> <p>SEAN R. MELVILLE, PE PROJECT DESIGN ENGINEER</p>	<p>HYDRAULICS ENGINEER</p> <p>ROADWAY DESIGN ENGINEER</p> <p>P.E.</p> <p>P.E.</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA</p> <p>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>
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SEE SHEET 113, 114 FOR -L- (WB) AND -L- (EB) PROFILE
SEE SHEET 158 FOR -Y5RPA- PROFILE
SEE SHEET 160 FOR -Y5RPD- PROFILE
SEE SHEET 2N-20(1) FOR -NW20-

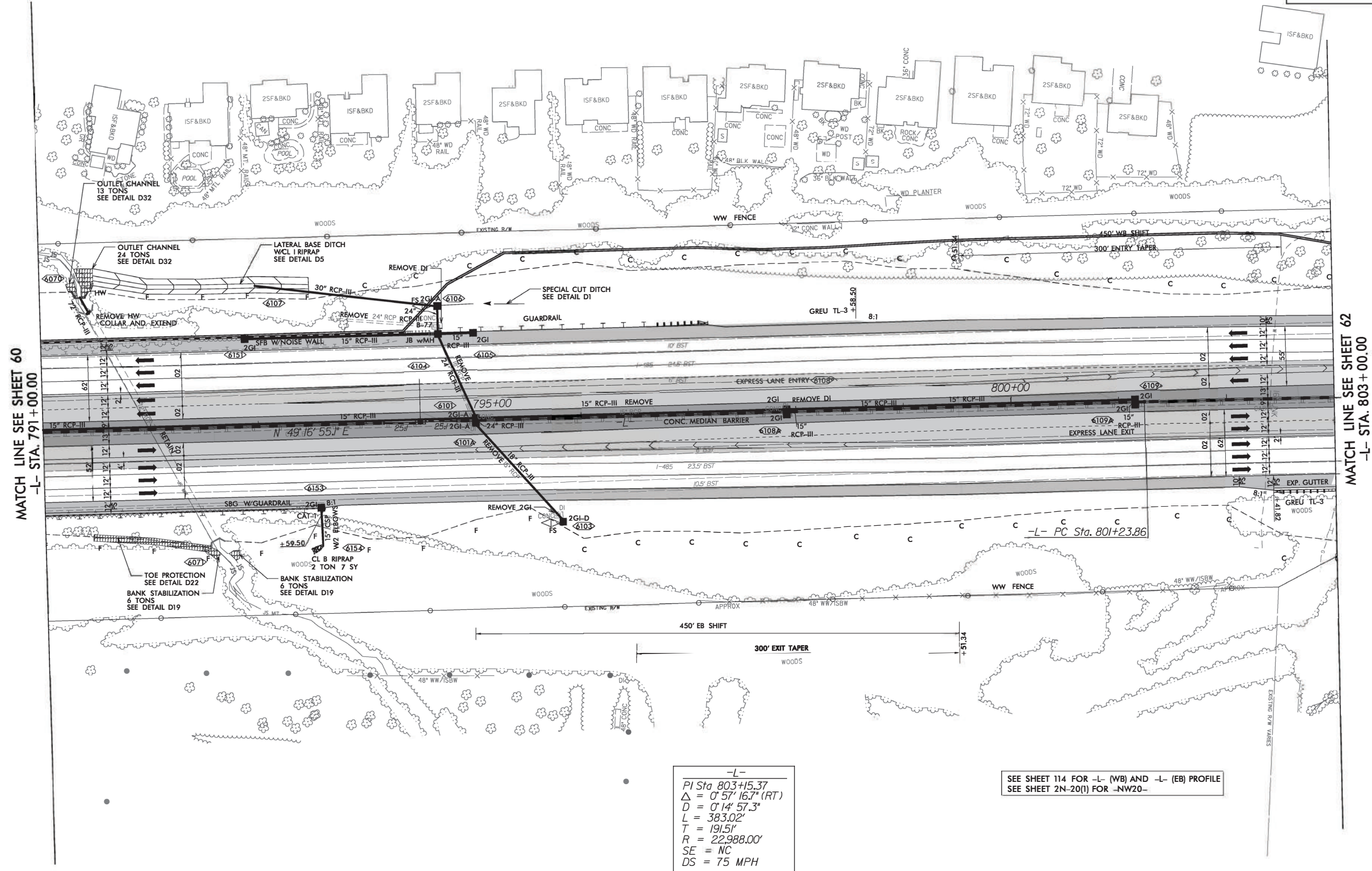
8/17/99

REVISIONS

9/12/2019
\\pdp\projects\01\ics_workingdir\3107\335941_3965\15507_rdy-psn61.dgn
PDP\WCS01


wsp 1001 Morehead Square Dr.
Suite 610
Charlotte NC, 28203
NC LIC NO. F-0165

PROJECT REFERENCE NO.		SHEET NO.
R-0211EC		61
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		
		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
		



-L-
PI Sta 803+15.37
 $\Delta = 0^\circ 57' 16.7''$ (RT)
 $D = 0^\circ 14' 57.3''$
 $L = 383.02'$
 $T = 191.51'$
 $R = 22,988.00'$
 $SE = NC$
 $DS = 75$ MPH

SEE SHEET 114 FOR -L- (WB) AND -L- (EB) PROFILE
SEE SHEET 2N-20(I) FOR -NW20-

PROJECT REFERENCE NO.	SHEET NO.
R-0211EC	74
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 COMPASS BANK DEVELOPMENT GROUP P.O. BOX 937	
BLYTHE	

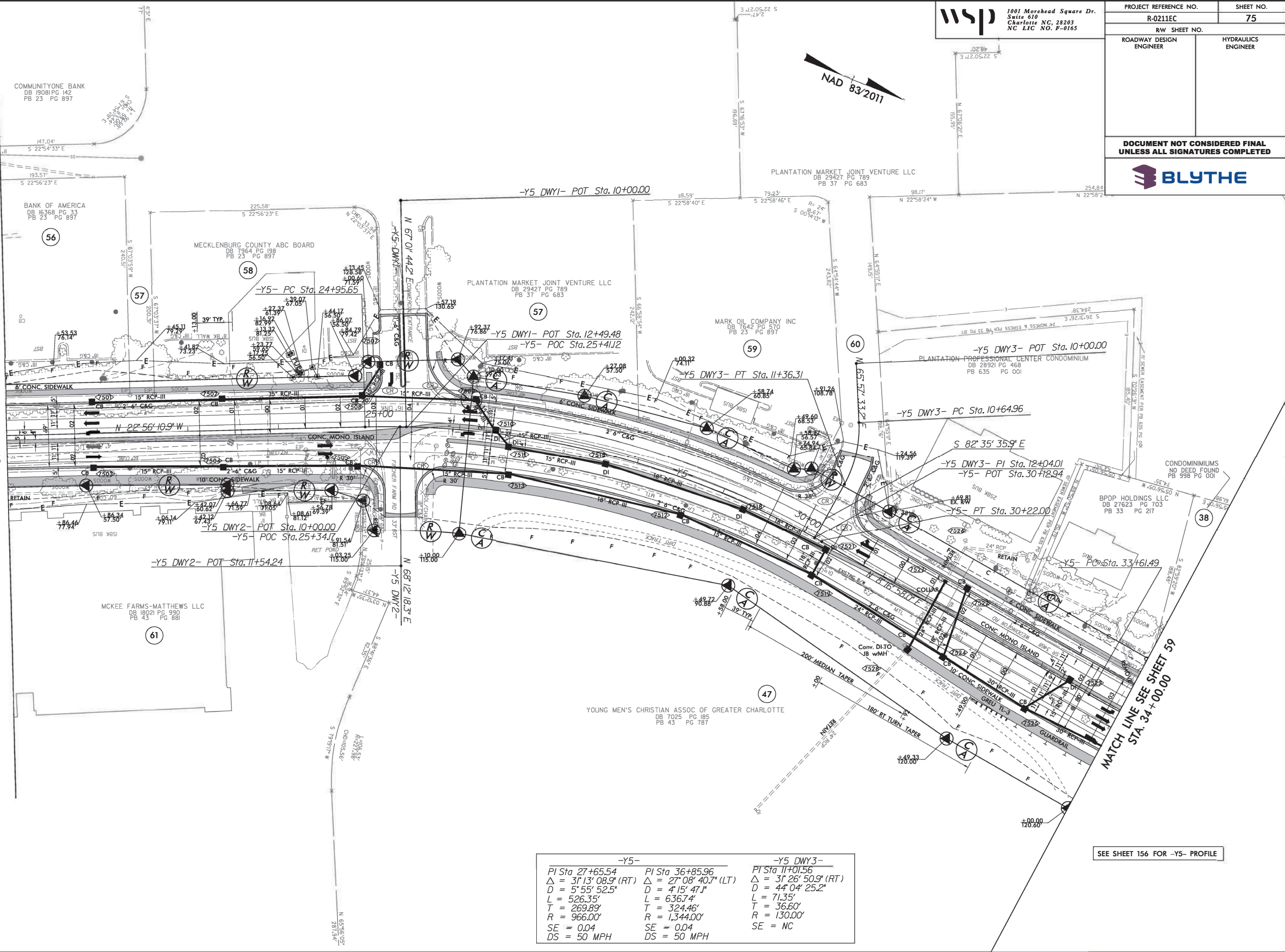


-Y5-	-Y26-
$PI\ Sta\ 17+46.47$	$PI\ Sta\ 13+96.83$
$\Delta = 4^{\circ}08'12.7''\ (LT)$	$\Delta = 10^{\circ}48'40.6''\ (RT)$
$D = 1^{\circ}08'45.3''$	$D = 5^{\circ}43'46.5''$
$L = 361.0'$	$L = 188.69'$
$T = 180.58'$	$T = 94.63'$
$R = 5,000.00'$	$R = 1,000.00'$
$SE = EXIST$	$SE = EXIST$
$DS = 50$	$DS = EXIST$

SEE SHEET 156 FOR -Y5- PROFILE


REVISIONS

MATCH LINE SEE SHEET 74
STA. 21+00.00



-Y5-			-Y5 DWY3-		
PI Sta. 27+65.54	PI Sta. 36+85.96	PI Sta. 11+01.56	PI Sta. 27+65.54	PI Sta. 36+85.96	PI Sta. 11+01.56
$\Delta = 31^{\circ}13'08.9''$ (RT)	$\Delta = 27^{\circ}08'40.7''$ (LT)	$\Delta = 31^{\circ}26'50.9''$ (RT)	$\Delta = 31^{\circ}13'08.9''$ (RT)	$\Delta = 27^{\circ}08'40.7''$ (LT)	$\Delta = 31^{\circ}26'50.9''$ (RT)
D = 5'55'52.5"	D = 4'15'47.1"	D = 4'4'25.2"	D = 5'55'52.5"	D = 4'15'47.1"	D = 4'4'25.2"
L = 526.35'	L = 636.74'	L = 71.35'	L = 526.35'	L = 636.74'	L = 71.35'
T = 269.89'	T = 324.46'	T = 36.60'	T = 269.89'	T = 324.46'	T = 36.60'
R = 966.00'	R = 1,344.00'	R = 130.00'	R = 966.00'	R = 1,344.00'	R = 130.00'
SE = 0.04	SE = 0.04	SE = NC	SE = 0.04	SE = 0.04	SE = NC
DS = 50 MPH	DS = 50 MPH		DS = 50 MPH	DS = 50 MPH	

SEE SHEET 156 FOR -Y5- PROFILE



1001 Morehead Square Dr.
Suite 610
Charlotte NC, 28203
NC LIC NO. F-0165


PROJECT REFERENCE NO.
R-0211EC

R/W SHEET NO.
75

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCH LINE SEE SHEET 59
STA. 34+00.00

Permit Package

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action Id. SAW No. 2019-01768 County: Mecklenburg U.S.G.S. Quad: NC-Matthews

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee: North Carolina Department of Transportation

Erin Cheely

Address: 1598 Mail Service Center

Raleigh, North Carolina 27699-1598

Telephone Number: 919-707-6108

E-mail: ekcheely@ncdot.gov

Size (acres) 80 acres

Nearest Waterway Fourmile Creek

USGS HUC 03050103

Nearest Town Matthews

River Basin Santee

Coordinates Latitude: 35.089500

Longitude: -80.730048

Location description: I 485 and SR 3468 (Weddington Rd.) in Mecklenburg County, North Carolina.

Description of projects area and activity: This verification authorizes the construction of a half-clover interchange at I 485 and SR 3468 (Weddington Rd.), resulting in 59 linear feet of stream bank stabilization, 66 linear feet of permanent stream channel impacts, and less than 0.01 acre of temporary stream impacts for dewatering activities.

Applicable Law(s): ☒ Section 404 (Clean Water Act, 33 USC 1344)
☐ Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: **NWP 14. Linear Transportation Projects**

SEE ATTACHED NWP GENERAL, REGIONAL, AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the enclosed Conditions, your application signed and dated 9/16/2019, and the enclosed plans Sheets 1-11 dated 9/12/2019. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management **Morehead City, NC, at (252) 808-2808.**

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact Nicholle Braspenickx at 704-510-0162 or Nicholle.M.Braspenickx.usace.army.mil.

Corps Regulatory Official: _____

Mark Matthews

Date: 2019.10.01 15:09:05 -04'00'

Date: 10/01/2019

Expiration Date of Verification: 03/18/2022

SPECIAL CONDITIONS

a. In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.

Action ID Number: SAW No. 2019-01768 County: Mecklenburg

Permittee: North Carolina Department of Transportation, Erin Cheely

Project Name: NC DOT/R 0211EC, I 485 and SR 3468 (Weddington Rd.)

Date Verification Issued: 10/01/2019

Project Manager: Nicholle Braspennickx

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Nicholle Braspennickx
Charlotte Regulatory Office
U.S Army Corps of Engineers
8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262
or
Nicholle.M.Braspennickx.usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

Compensatory Mitigation Responsibility Transfer Form

Permittee: North Carolina Department of Transportation, Erin Cheely
Project Name: NC DOT/R 0211EC, I 485 and SR 3468 (Weddington Rd.)

Action ID: SAW No. 2019-01768
County: Mecklenburg

Instructions to Permittee: The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Division of Mitigation Services (NCDMS), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that to the U.S. Army Corps of Engineers (USACE) Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate mitigation Sponsors.

Instructions to Sponsor: The Sponsor must verify that the mitigation requirements (credits) shown below are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether or not they have received payment from the Permittee. Once the form is signed, the Sponsor must update the bank ledger and provide a copy of the signed form and the updated bank ledger to the Permittee, the USACE Project Manager, and the Wilmington District Mitigation Office (see contact information on page 2). The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation*

8-digit HUC and Basin: 03050103, Catawba River Basin

Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
66 linear feet						

*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements:

8-digit HUC and Basin: 03050103, Catawba River Basin

Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
132 linear feet						

Mitigation Site Debited:

(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCDMS, list NCDMS. If the NCDMS acceptance letter identifies a specific site, also list the specific site to be debited).

Section to be completed by the Mitigation Sponsor

Statement of Mitigation Liability Acceptance: I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCDMS), as approved by the USACE, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements.

Mitigation Sponsor Name: NCDMS

Name of Sponsor's Authorized Representative: Beth Harmon

Beth Harmon
Signature of Sponsor's Authorized Representative

03/11/2020
Date of Signature

Conditions for Transfer of Compensatory Mitigation Credit:

- Once this document has been signed by the Mitigation Sponsor and the USACE is in receipt of the signed form, the Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only after the USACE is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein. For authorized impacts conducted by the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon permit issuance; however, a copy of this form signed by the Sponsor must be provided to the USACE within 30 days of permit issuance. NCDOT remains fully responsible for the mitigation until the USACE has received this form, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure that the USACE Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the USACE, the Sponsor must obtain case-by-case approval from the USACE Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the USACE administrative records for both the permit and the Bank/ILF Instrument.

Comments/Additional Conditions: A letter from the North Carolina Division of Mitigation Services, confirming they are willing and able to accept the applicant's compensatory mitigation responsibility, dated 9/13/2019 was included with the preconstruction notification.

This form is not valid unless signed below by the USACE Project Manager and by the Mitigation Sponsor on Page 1. *Once signed, the Sponsor should provide copies of this form along with an updated bank ledger to: 1) the Permittee, 2) the USACE Project Manager at the address below, and 3) the Wilmington District Mitigation Office, Attn: Todd Tugwell, 11405 Falls of Neuse Road, Wake Forest, NC 27587 (email: todd.tugwell@usace.army.mil).* Questions regarding this form or any of the permit conditions may be directed to the USACE Project Manager below.

USACE Project Manager: Nicholle Braspenickx
USACE Field Office: Charlotte Regulatory Office
US Army Corps of Engineers
8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262
Email: Nicholle.M.Braspenickx.usace.army.mil

Nicholle Braspenickx

USACE Project Manager Signature

10/01/2019

Date of Signature

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at <http://ribits.usace.army.mil>



ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
LINDA CULPEPPER
Director

November 7, 2019
Mecklenburg County
NCDWR Project No. 20191232v.1
I-485 Access Ramp at SR 3468
State Project No. R-0211EC

APPROVAL of 401 WATER QUALITY CERTIFICATION, with ADDITIONAL CONDITIONS

Mr. Philip S. Harris, III, P.E., CPM
Natural Environment Section Head
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina, 27699-1598

Dear Mr. Harris:

You have our approval, in accordance with the conditions listed below, for the following impacts for the purpose of Interstate Access Addition to I-485 at Weddington Road (SR 3468) R-0211EC in Mecklenburg County:

Stream Impacts in the Catawba River Basin

Site	Bank Stabilization Permanent (linear ft)	Bank Stabilization Temporary (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
1 (culvert ext)	6	20	16		42	16
1 (riprap fill)			34	19	53	34
2 (culvert ext)	53	27	16		96	16
					0	0
TOTAL	59	47	66	19	191	66

Total Stream Impact for Project: 191 linear feet.

The project shall be constructed in accordance with your application dated received September 16, 2019. After reviewing your application, we have decided that these impacts are covered by General Water Quality Certification Number 4135. This certification corresponds to the Nationwide Permit 14 issued by the Corps of Engineers. In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations. This approval will expire with the accompanying 404 permit.

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must notify the NCDWR and submit a new application. If the property is sold, the



North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000

new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If total wetland fills for this project (now or in the future) exceed one acre, or of total impacts to perennial streams (now or in the future) exceed 300 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the attached certification(s) and any additional conditions listed below.

Condition(s) of Certification:

Project Specific Conditions

1. Compensatory mitigation for 66 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Division of Mitigation Service (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. The DMS has indicated in a letter dated September 13, 2019 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the DMS Mitigation Banking Instrument signed July 28, 2010.
2. The NCDOT Division Environmental Officer or Environmental Assistant will conduct a pre-construction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand the potential issues with stream and pipe alignment at the permitted site. NCDWR staff shall be invited to the pre-construction meeting. [15A NCAC 02H.0506(b)(2) and (b)(3)]
3. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams, shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by the NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NCDWR for guidance on how to proceed and to determine whether or not a permit modification will be required. [15A NCAC 02H.0506(b)(2)]
4. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage. [15A NCAC 02H.0506(b)(2)]
5. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed. [15A NCAC 02H.0506(b)(2)]
6. For the 68 linear feet of streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species. [15A NCAC 02H.0506(b)(2)]
7. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species. [15A NCAC 02H.0506(b)(2)]
8. The waiver for culvert burial is granted as requested. Stream bed is required to be level with the end of the culvert extension, as presented in the application. [15A NCAC 02H.0506(b)(2)]



General Conditions

1. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and downstream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWR for guidance on how to proceed and to determine whether or not a permit modification will be required. [15A NCAC 02H.0506(b)(2)]
2. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
3. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
4. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
5. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
6. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
7. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A NCAC 02H.0506(b)(3) and (c)(3)]
8. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream. [15A NCAC 02H.0506(b)(3)]
9. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
10. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
11. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
12. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water



Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]

13. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
14. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
15. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
16. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
17. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
18. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(f)]
19. Native riparian and wetland vegetation (**ex. Salix nigra, Juncus (spp), Carex (spp), et al.**) must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0231(b)(6)]
20. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.[15A NCAC 02H.0506(b)(3) and (c)(3)]
21. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3) and (c)(3)]:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.



- d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
22. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. [15A NCAC 02H.0506(b)(3) and (c)(3)]
23. With the issuance of this 401 certification, the DWR approves the stormwater drainage and treatment designs as shown in the roadway plans and permit drawings submitted as part of the 401 application, which are incorporated by reference and are enforceable by the DWR. Significant modifications to the way stormwater is managed and conveyed, any outfalls, or stormwater control measures represented in the roadway plans or permit drawings after issuance of this 401 certification are prohibited without prior approval from the DWR.
24. In the event that discharges of sediment or other pollutants from the drainage system outfalls are found by DWR to cause or contribute to a violation of surface water quality standards, DWR may take enforcement action, or NCDOT and DWR shall conduct an assessment and implement the appropriate best management practices necessary to adequately address NCDOT's contribution to the water quality standards violation. Implementation of such best management practices shall be made within a reasonable timeframe as agreed upon by NCDOT and DWR; and may require NCDOT to obtain a 404 Permit from the Corps and a 401 Certification from the DWR

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission.
The mailing address for the Office of Administrative Hearings is:


Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Bill F. Lane, General Counsel
Department of Environmental Quality
1601 Mail Service Center

This letter completes the review of the Division of Water Resources under Section 401 of the Clean Water Act. If you have any questions, please contact Donna Hood at (704)235-2193 or donna.hood@ncdenr.gov.

Sincerely,

DocuSigned by:

9C9886312DCD474...
Linda Culpepper, Director
Division of Water Resources



Electronic copy only distribution:

Nicholle Braspennickx, US Army Corps of Engineers, Charlotte Field Office
Joel Howard, Acting Division 10 Environmental Officer
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Beth Harmon, Division of Mitigation Services
Donna Hood, NC Division of Water Resources Mooresville Regional Office
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North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
LINDA CULPEPPER
Director

NCDWR Project No.: _____ County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, **or** the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

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

Signature: _____ Date: _____

Agent's Certification

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

Signature: _____ Date: _____

Engineer's Certification

_____ Partial _____ Final

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

Signature _____ Registration No. _____
Date _____



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IPaC Resource List

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Mecklenburg County, North Carolina



Local office

Asheville Ecological Services Field Office

☎ (828) 258-3939

📅 (828) 258-5330

160 Zillicoa Street

100 Emerald Street
Asheville, NC 28801-1082

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Tricolored Bat <i>Perimyotis subflavus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

Clams

NAME	STATUS
Carolina Heelsplitter <i>Lasmigona decorata</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/3534	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Michaux's Sumac <i>Rhus michauxii</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5217	Endangered
Schweinitz's Sunflower <i>Helianthus schweinitzii</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/3849	Endangered

Smooth Coneflower *Echinacea laevigata*

Threatened

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/3473>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date

range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Sep 1 to Jul 31
Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Cerulean Warbler <i>Dendroica cerulea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974	Breeds Apr 28 to Jul 20
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
Kentucky Warbler <i>Oporornis formosus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20
Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31

Red-headed Woodpecker *Melanerpes erythrocephalus*

Breeds May 10 to Sep 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Rusty Blackbird *Euphagus carolinus*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Wood Thrush *Hylocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

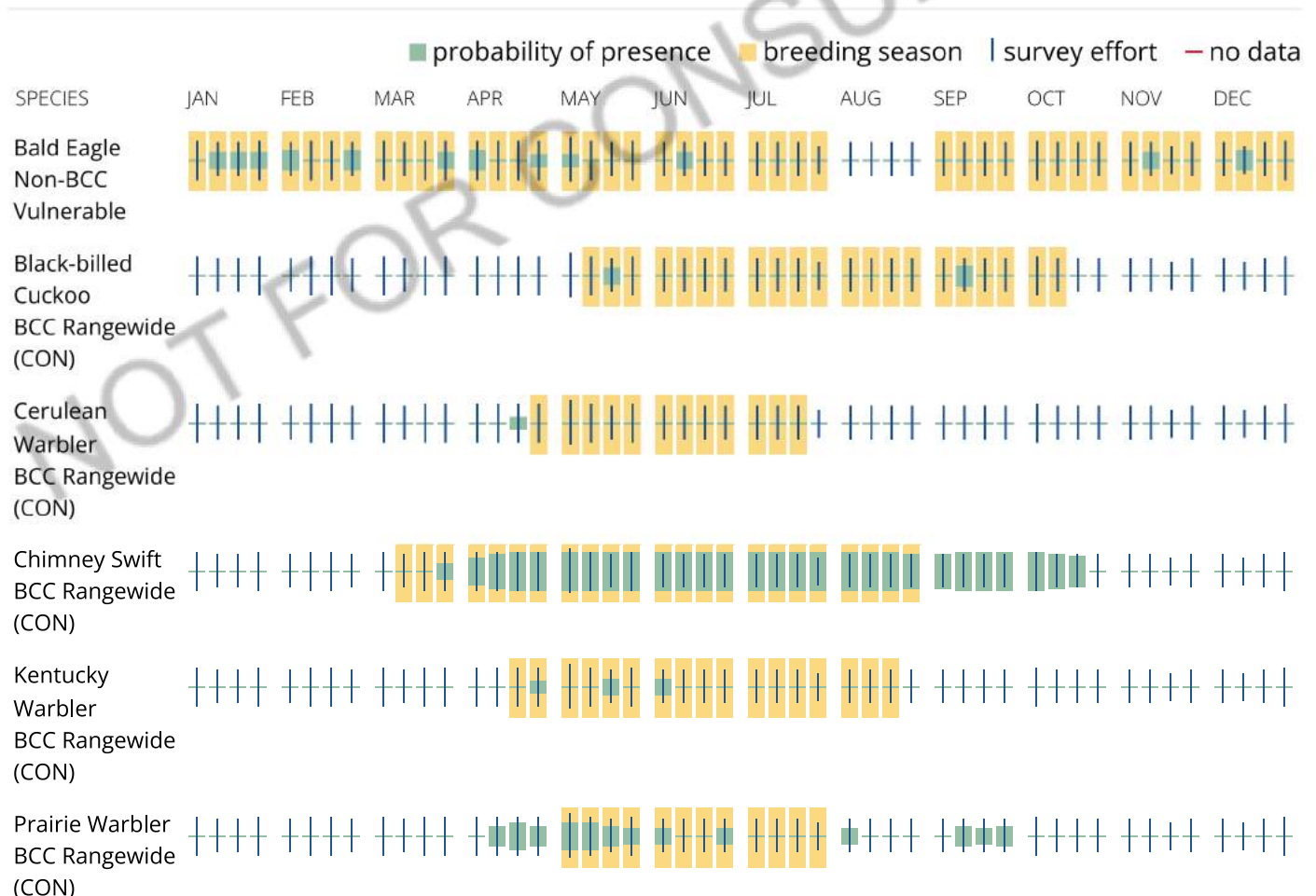
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

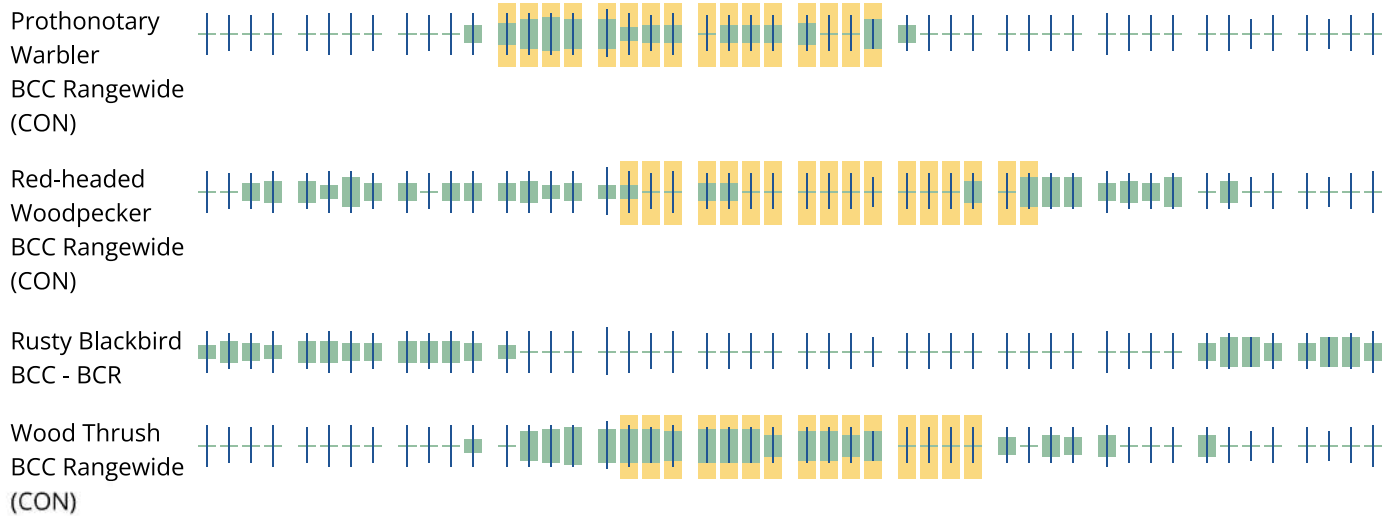
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory

(NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should

seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION