

# Project Submittal Interim Form



Updated June 20, 2017

*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: \***
- New Project
  - New Project with Existing ID
  - Pre-Application Submittal
  - More Information Response
  - Other Agency Comments
  - For the Record Only (Courtesy Copy)
  - Stream or Buffer Appeal

**Is this supplemental information that needs to be sent to the Corps? \***

- Yes       No

**New Project** - Please check the new project type if you are trying to submit a new project that needs an official approval decision.

**Pre-Application Submittal** - Please check the pre-application submittal if you just want feedback on your submittal and do not have the expectation that your submittal will be considered a complete application requiring a formal decision.

**More Information Response** - Please check this type if you are responding to a request for information from staff and you have an ID# and version for this response.

**Other Agency Comments** - Please check this if you are submitting comments on an existing project.

## Project Contact Information

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**Name:** Chris Rivenbark  
*Who is submitting the information?*

**Email Address: \*** crivenbark@ncdot.gov

## Project Information

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**Existing ID #: \***      **Existing Version: \***  
20200469      1  
*20170001 (no dashes)*

**Project Name: \*** B-5639 Duplin County

**Is this a public transportation project? \***

- Yes  
 No

**Is this a DOT project? \***

- Yes  
 No

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

Yes  No  Unknown

**TIP#:**

B-5639

**WBS#:**

45594.1.1

(Applies to DOT projects only)

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**County (ies) \***

Duplin

**Please upload all files that need to be submitted.**

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

|  |          |
|--|----------|
| B-5639_Final_CE_checklist_signed.pdf       | 4.13MB   |
| B-5639 DMS Acceptance.pdf                  | 470.58KB |
| B-5639_Permit Package Wetland_20200415.pdf | 5.72MB   |
| B-5639 Reforestation detail.pdf            | 862.09KB |
| RE_ [External] B 5639 NW 23 request.pdf    | 4.08MB   |

Only pdf or kmz files are accepted.

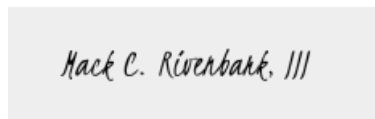
**Describe the attachments:**

- (1) CE document
- (2) DMS acceptance letter
- (3) Revised permit drawings
- (4) Reforestation plan sheet
- (5) USACE's 4/9/20 email and NCDOT's 4/17/20 reply

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

- o I have given true, accurate, and complete information on this form;
- o I agree that submission of this form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act")
- o 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");
- o I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- o I intend to electronically sign and submit the online form."

**Signature: \***



**Submittal Date:**

4/20/2020

Is filled in automatically once submitted.



NORTH CAROLINA  
Environmental Quality

ROY COOPER  
Governor

MICHAEL S. REGAN  
Secretary

TIM BAUMGARTNER  
Director

April 9, 2020

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

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

**B-5639**, Replace Bridge 36 on NC 11 over Maxwell Creek, Duplin County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory wetland mitigation for the subject project. Based on the information supplied by you on April 8, 2020, the impacts are located in CU 03030007 of the Cape Fear River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

| Cape Fear<br>03030007<br>SICP | Stream |      |      | Wetlands |              |               | Buffer (Sq. Ft.) |        |
|-------------------------------|--------|------|------|----------|--------------|---------------|------------------|--------|
|                               | Cold   | Cool | Warm | Riparian | Non-Riparian | Coastal Marsh | Zone 1           | Zone 2 |
| Impacts (feet/acres)          | 0      | 0    | 0    | 0.280    | 0            | 0             | 0                | 0      |

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

The impacts and associated mitigation needs were not projected by the NCDOT in the 2020 impact data. DMS will commit to implement sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

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

Sincerely,

James B. Stanfill  
DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office  
Ms. Amy Chapman, NCDWR  
File: B-5639





North Carolina Department of Transportation

Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 45594.1.1      TIP No.: B-5639      County(ies): Duplin      Page 1 of 1

**General Project Information**

|                                 |                      |   |        |                        |  |   |           |
|---------------------------------|----------------------|---|--------|------------------------|--|---|-----------|
| WBS Element:                    | 45594.1.1            | TIP Number:                               | B-5639 | Project Type:          | Bridge Replacement                           | Date:                                       | 9/17/2019 |
| NCDOT Contact:                  | Jacquelyn Bowles, PE |   |        | Contractor / Designer: | Sungate Design Group, P.A. / Josh Dalton, PE |   |           |
|                                 | Address:             | 1000 Birch Ridge Dr.<br>Raleigh, NC 27610 |        |                        | Address:                                     | 905 Jones Franklin Rd.<br>Raleigh, NC 27606 |           |
|                                 | Phone:               | 919-707-6559                              |        |                        | Phone:                                       | 919-710-8333                                |           |
|                                 | Email:               | jkbowles@ncdot.gov                        |        |                        | Email:                                       | jdalton@sungatedesign.com                   |           |
| City/Town:                      |                      |   |        | County(ies):           | Duplin                                       |   |           |
| River Basin(s):                 | Cape Fear            |   |        | CAMA County?           | No   |   |           |
| Wetlands within Project Limits? | Yes                  |   |        |                        |  |   |           |

**Project Description**

|  |   |                       |       |  |      |  |           |      |       |      |
|--|---|-----------------------|-------|--|------|--|-----------|------|-------|------|
| Project Length (lin. miles or feet):   | 0.33  | Surrounding Land Use: | Rural |  |      |  |           |      |       |      |
|  | <b>Proposed Project</b>   |                       |       | <b>Existing Site</b>                                 |      |  |           |      |       |      |
| Project Built-Up Area (ac.)  | 0.7 ac.   |                       |       | 0.5 ac.  |      |  |           |      |       |      |
| Typical Cross Section Description:   | Paved 12' lanes with 8' shoulder section (11' shoulder with GR, 2' paved)   |                       |       | Paved 11' lanes with variable grass shoulder section |      |  |           |      |       |      |
| Annual Avg Daily Traffic (veh/hr/day):   | Design/Future:  | 3200                  |       | Year:  | 2040 |  | Existing: | 2617 | Year: | 2020 |
| General Project Narrative:<br>(Description of Minimization of Water Quality Impacts) | <p>NCDOT Highway Division 3 proposes to replace Bridge #036 on NC 11 over Maxwell Creek. The existing structure is 2@52' steel I-beams on concrete vertical abutments with asphalt on concrete deck. The proposed structure is 1@55', 1@60, and 1@55' 24" cored slab with 4' end bent caps. Existing drainage patterns have been maintained to the extent practical, and rip rap will be used at all drainage outlets to dissipate energy and reduce erosion.</p> |                       |       |  |      |  |           |      |       |      |

**Waterbody Information**

|  |   |  |            |
|--|---|--|------------|
| Surface Water Body (1):  | Maxwell Creek   | NCDWR Stream Index No.:  | 18-74-24-1 |
| NCDWR Surface Water Classification for Water Body                | Primary Classification:                                   | Class C  |            |
|  | Supplemental Classification:                              | Swamp Waters (Sw)  |            |
| Other Stream Classification:                                     | None  |  |            |
| Impairments:   | fecal coliform  | mercury (Hg)   |            |
| Aquatic T&E Species?   | Yes      Comments: Unresolved per NRTR dated October 2016 |  |            |
| NRTR Stream ID:  | Maxwell Creek   |  |            |
| Project Includes Bridge Spanning Water Body?                     | Yes   | Deck Drains Discharge Over Buffer?   | N/A        |
| Deck Drains Discharge Over Water Body?                           | No  | Buffer Rules in Effect:  | 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) |            |

Revised 4/20/20

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**DUPLIN COUNTY**

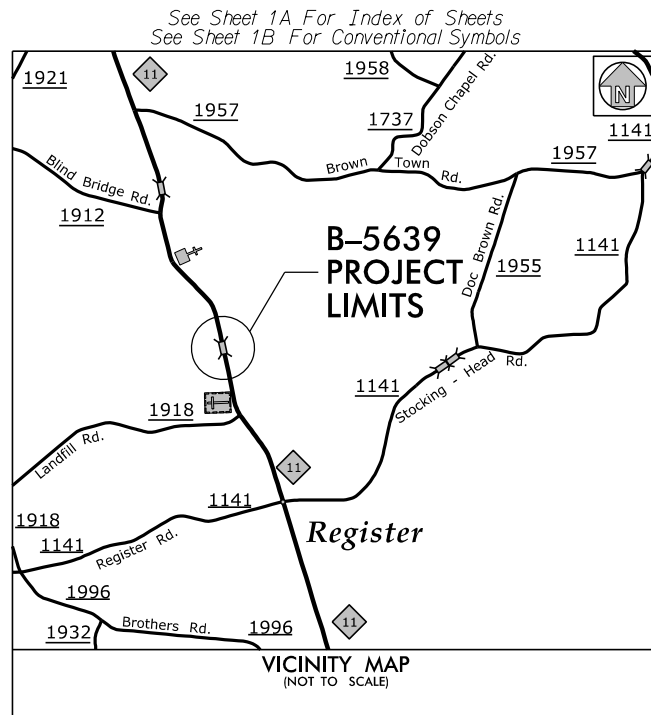
LOCATION: BRIDGE NO. 36 OVER MAXWELL CREEK  
ON NC 11 (CLODFELTER ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

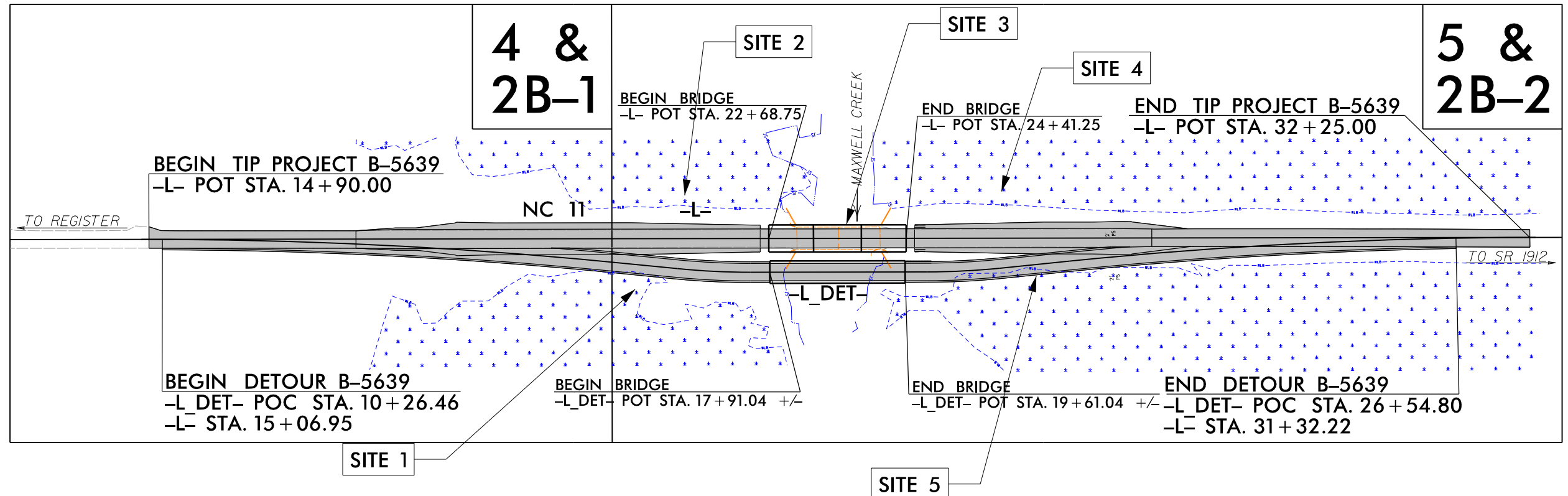
| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | B-5639                      | 1           |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION |              |
| 45594.1.1       |                             | P.E.        |              |
| 45594.2.1       |                             | RW & UTL    |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |

PERMIT DRAWING  
SHEET 1 OF 17

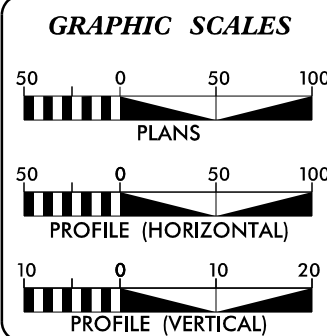
PROJECT: B-5639



**WETLAND AND SURFACE WATER IMPACTS PERMIT**



CONTRACT:



**DESIGN DATA**

ADT 2020 = 2,617  
ADT 2040 = 3,200

K = 9 %  
D = 55 %  
T = 5 %\*  
V = 60 MPH

\* TTST = 2% DUAL 3%

SUB-REGIONAL TIER  
MAJOR COLLECTOR

**PROJECT LENGTH**

|                                     |   |             |
|-------------------------------------|---|-------------|
| LENGTH ROADWAY TIP B-5639 PROJECT   | = | 0.296 MILES |
| LENGTH STRUCTURE TIP B-5639 PROJECT | = | 0.033 MILES |
| TOTAL LENGTH TIP B-5639 PROJECT     | = | 0.329 MILES |

PLANS PREPARED FOR NCDOT BY:

**MOTT MACDONALD**  
2018 STANDARD SPECIFICATIONS

**SUNGATE DESIGN GROUP, P.A.**  
905 JONES FRANKLIN ROAD  
RALEIGH, NORTH CAROLINA 27608  
TEL: (919) 855-2243  
ENG FIRM LICENSE NO. C-490

**MICHAEL PEKAREK, PE**  
PROJECT ENGINEER

**JOSH DALTON, PE**  
HYDRAULIC ENGINEER

**DAVID STUTTS, PE**  
NCDOT BRIDGE PROGRAM MANAGER

RIGHT OF WAY DATE:  
NOVEMBER 27, 2019

LETTING DATE:  
JULY 21, 2020

**HYDRAULICS ENGINEER**

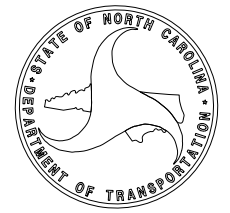
SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

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

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**SIMPSON SEA & ASSOCIATES**  
5640 Dillard Drive  
Suite 200  
Cary, NC 27518  
(919) 852-0468  
(919) 852-0598 (Fax)  
www.simpsonengr.com  
LICENSE NO. C-2521

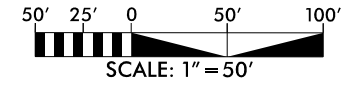


\$\$\$\$ SYSTEMS \$\$\$  
\$\$\$ DDN \$\$\$  
\$\$\$ USERNAME \$\$\$





Revised 4/20/20

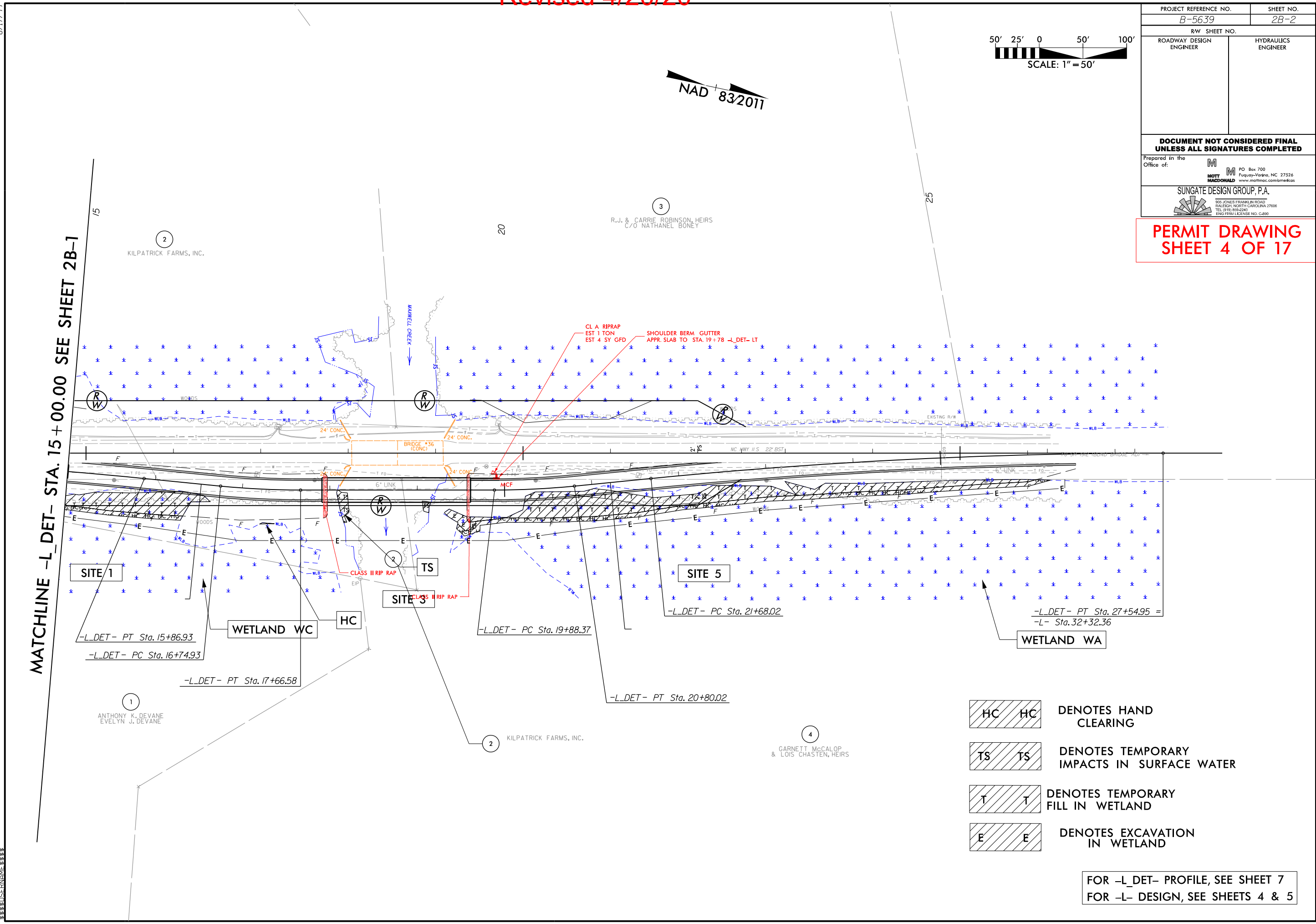


NAD 83/2011

|  |  |   |  |
|--|--|---|--|
| PROJECT REFERENCE NO.<br>B-5639  |  | SHEET NO.<br>2B-2   |  |
| RW SHEET NO.   |  |   |  |
| ROADWAY DESIGN ENGINEER  |  | HYDRAULICS ENGINEER   |  |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>                                 |  |   |  |
| Prepared in the Office of:   |  |   |  |
|  |  | PO Box 700<br>Fuquay-Varina, NC 27526<br>www.motmac.com/america |  |
| SUNGATE DESIGN GROUP, P.A.   |  |   |  |
| 305 JONES FRANKLIN ROAD<br>RALEIGH, NORTH CAROLINA 27606<br>TEL 919 808244<br>ENG FIRM LICENSE NO. C-890 |  |   |  |

**PERMIT DRAWING  
SHEET 4 OF 17**

MATCHLINE -L\_DET- STA. 15+00.00 SEE SHEET 2B-1





- HC HC DENOTES HAND CLEARING
- TS TS DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- T T DENOTES TEMPORARY FILL IN WETLAND
- E E DENOTES EXCAVATION IN WETLAND

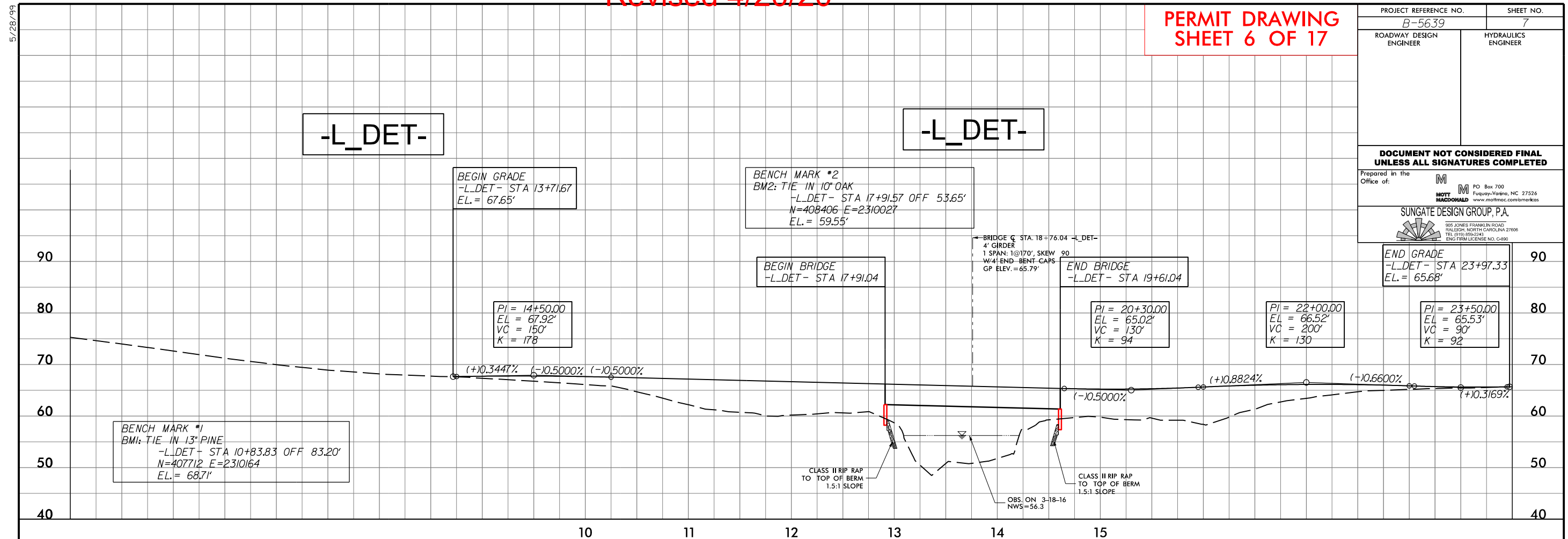
FOR -L\_DET- PROFILE, SEE SHEET 7  
FOR -L- DESIGN, SEE SHEETS 4 & 5

8.17/99  
C:\projects\B-5639\2B-2\2B-2.dwg  
11/11/2019 10:00:00 AM  
MOTT MACDONALD  
SUNGATE DESIGN GROUP, P.A.





|  |                     |
|--|---------------------|
| PROJECT REFERENCE NO.<br>B-5639  | SHEET NO.<br>7      |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |                     |
| Prepared in the Office of:   |                     |
| <br>MOTT MACDONALD<br>PO Box 700<br>Fuquay-Varina, NC 27526<br>www.mottmac.com/amerikas   |                     |
| <br>SUNGATE DESIGN GROUP, P.A.<br>905 JONES FRANKLIN ROAD<br>RALEIGH, NORTH CAROLINA 27605<br>TEL: (919) 892-2243<br>ENG. PERM. LICENSE NO. C-490 |                     |



**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE = 1500 CFS  
 DESIGN FREQUENCY = 10 YRS  
 DESIGN HW ELEVATION = 58.8 FT  
 BASE DISCHARGE = 4560 CFS  
 BASE FREQUENCY = 100 (FEMA) YRS  
 BASE HW ELEVATION = 61.5 FT  
 OVERTOPPING DISCHARGE = 16800 CFS  
 OVERTOPPING FREQUENCY = >500 YRS  
 OVERTOPPING ELEVATION = 65.3 FT

DATE OF SURVEY = 3/18/2016  
 W.S. ELEVATION AT DATE OF SURVEY = 56.3 FT

FOR -L\_DET- PLAN VIEW SEE SHEETS 2B-1 & 2B-2

5/28/99  
SYTIME  
CON



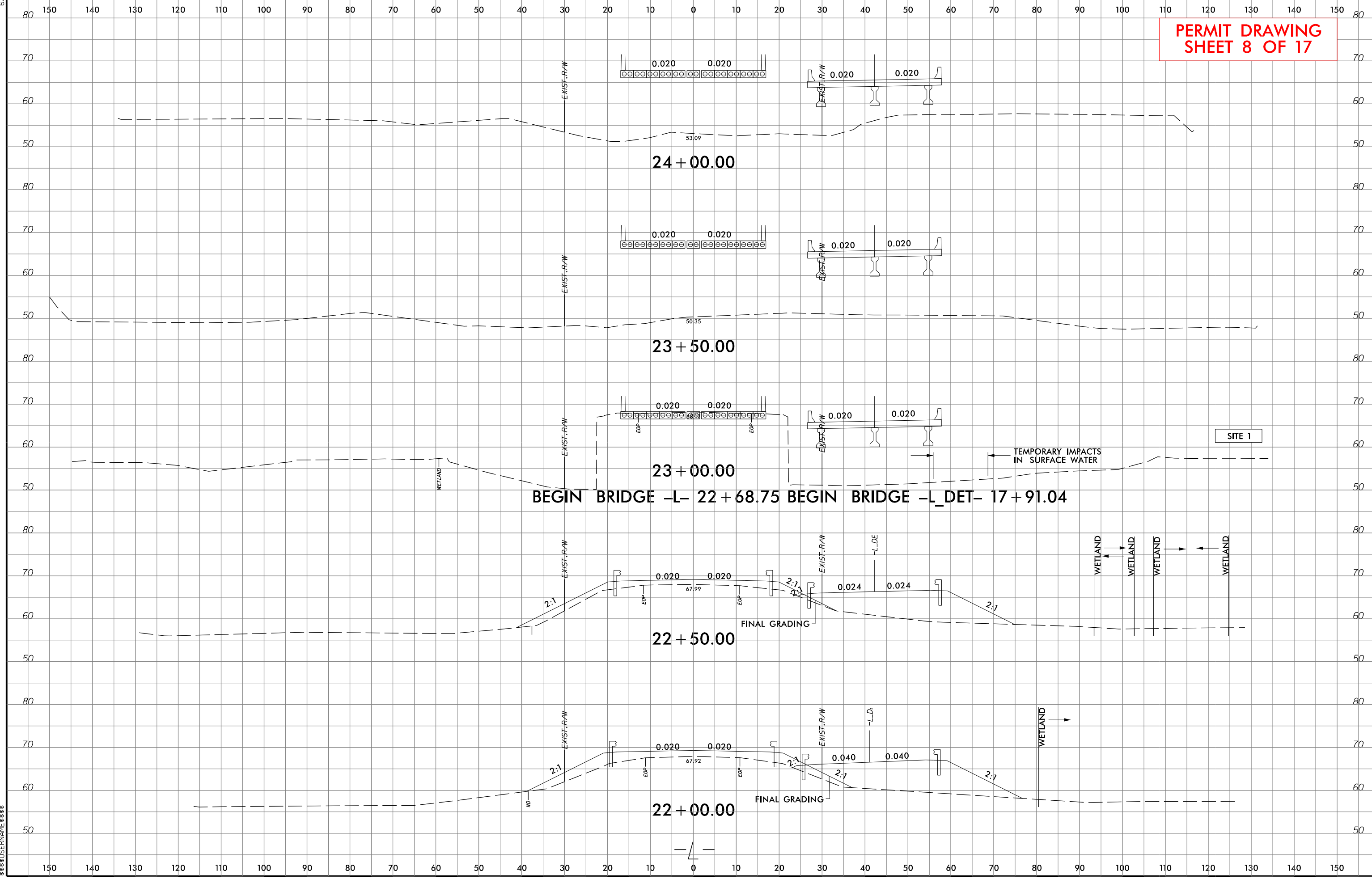
Revised 4/20/20

6/23/16



|                     |           |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| B-5639              | X-4       |

PERMIT DRAWING  
SHEET 8 OF 17



SYSTEMS TIME  
DATE  
DRAWN  
CHECKED  
DATE

Revised 4/20/20

6/23/16

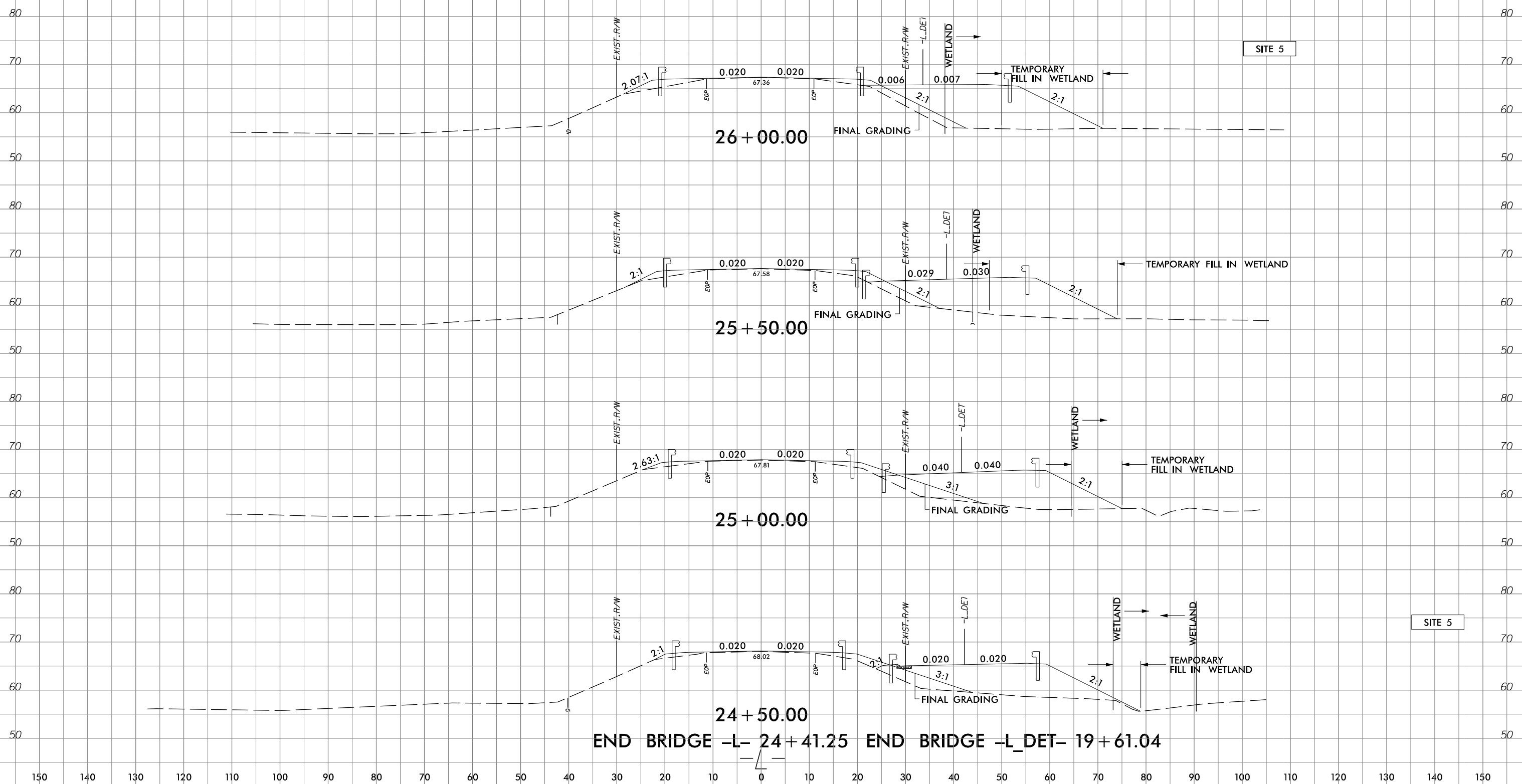


PROJ. REFERENCE NO.  
B-5639

SHEET NO.  
X-5

PERMIT DRAWING  
SHEET 9 OF 17

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



SITE 5

SITE 5

SYSTEMS TIME  
DESIGN  
DATE

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







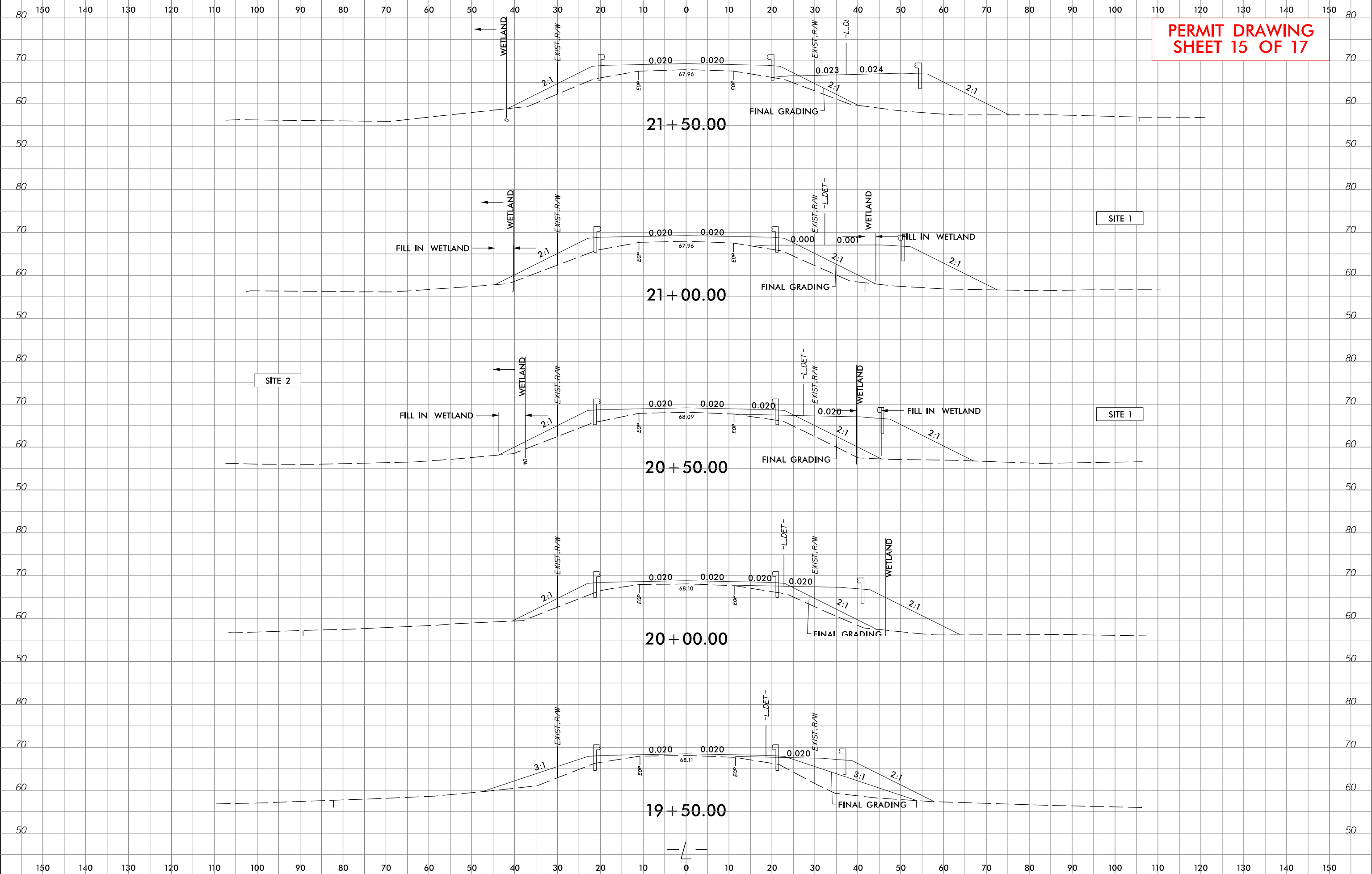








PERMIT DRAWING  
SHEET 15 OF 17



SITE 2

SITE 1

SITE 1

SYSTEMS TIME  
DESIGN  
DATE



| WETLAND AND SURFACE WATER IMPACTS SUMMARY |                        |                       |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |
|---|------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------|---------------------------|-----------------------|---|-------------------------------------|----------------------------|
| Site No.                                  | Station (From/To)      | Structure Size / Type | WETLAND IMPACTS                 |                             |                             |                                      |                                | SURFACE WATER IMPACTS     |                       |   |                                     |                            |
|   |                        |                       | Permanent Fill In Wetlands (ac) | Temp. Fill In Wetlands (ac) | Excavation in Wetlands (ac) | Mechanized Clearing in Wetlands (ac) | Hand Clearing in Wetlands (ac) | Permanent SW impacts (ac) | Temp. SW impacts (ac) | Existing Channel Impacts Permanent (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) |
| 1   | 19+50 to 19+86-L-RT    | ROADWAY FILL          | < 0.01                          |                             |                             |                                      |                                |                           |                       |   |                                     |                            |
|   | 20+11 to 21+09-L-RT    | ROADWAY FILL          | < 0.01                          |                             |                             |                                      |                                |                           |                       |   |                                     |                            |
|   | 14+62 to 16+65-LDET-RT | ROADWAY FILL          |                                 | 0.08                        |                             |                                      | 0.02                           |                           |                       |   |                                     |                            |
|   | 17+22 to 17+38-LDET-RT | ROADWAY FILL          |                                 |                             |                             |                                      | < 0.01                         |                           |                       |   |                                     |                            |
| 2   | 20+21 to 22+85-L-LT    | ROADWAY FILL          | 0.02                            |                             |                             | 0.06                                 |                                |                           |                       |   |                                     |                            |
|   |                        |                       |                                 |                             |                             |                                      |                                |                           |                       |   |                                     |                            |
| 3   | 22+85 to 24+25-L-      | 170' BRIDGE *         | < 0.01                          |                             |                             | < 0.01                               |                                |                           | 0.09                  |   | 99                                  |                            |
|   | 17+46 to 19+61-LDET-   | 170' DETOUR BRIDGE    |                                 |                             | < 0.01                      |                                      | < 0.01                         |                           | < 0.01                |   | 27                                  |                            |
| 4   | 24+22 to 25+34-L-LT    | ROADWAY FILL          | < 0.01                          |                             |                             | 0.02                                 |                                |                           |                       |   |                                     |                            |
|   | 26+01 to 27+49-L-LT    | ROADWAY FILL          | 0.03                            |                             |                             | 0.03                                 |                                |                           |                       |   |                                     |                            |
| 5   | 25+81 to 27+17-L-RT    | ROADWAY FILL          | 0.02                            |                             |                             |                                      |                                |                           |                       |   |                                     |                            |
|   | 19+61 to 26+42-LDET-RT | ROADWAY FILL          |                                 | 0.19                        | < 0.01                      |                                      | 0.08                           |                           |                       |   |                                     |                            |
| TOTALS*:                                  |                        |                       | 0.07                            | 0.27                        | < 0.01                      | 0.11                                 | 0.10                           |                           | 0.10                  | 0                                       | 126                                 | 0                          |

\*Rounded totals are sum of actual impacts

NOTES:

Site 3 Interior Piers are 2(8 - 14x73 (14.6in x13.6in)) = 2(8 (198.6 sq in)) = 2(1588.8 sq in) = 22 sq ft (0.0005 ac)

There will be 0.03 Ac of temporary fill will be needed in the hand clearing areas for erosion control measures.

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 04-15-2020  
 DUPLIN COUNTY  
 B-5639  
 45594.1.1

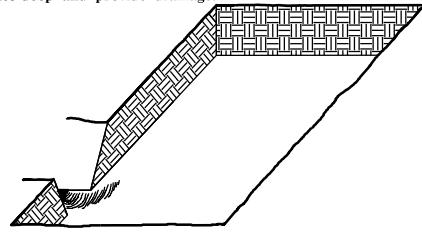
|  |                          |
|--|--------------------------|
| PROJECT REFERENCE NO.<br><i>B-5639</i> | SHEET NO.<br><i>RF-1</i> |
| RW SHEET NO.                           |                          |
| ROADWAY DESIGN ENGINEER                | HYDRAULICS ENGINEER      |

## PLANTING DETAILS

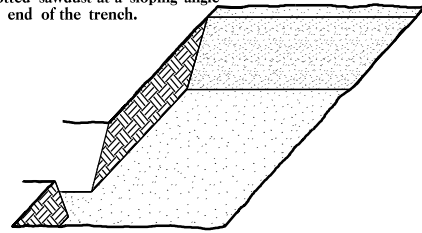
### SEEDLING / LINER BAREROOT PLANTING DETAIL

#### HEALING IN

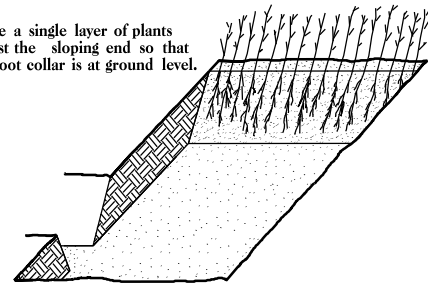
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



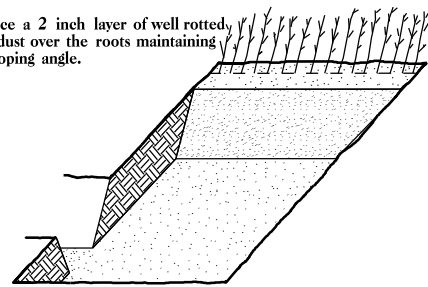
3. Jackfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



4. Place a single layer of plants against the sloping end so that the root collar is at ground level.

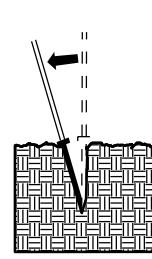


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

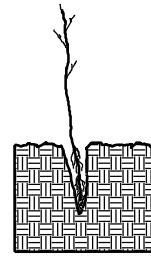


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

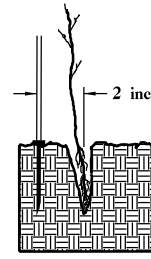
#### DOUBLE PLANTING METHOD USING THE KJC PLANTING BAR



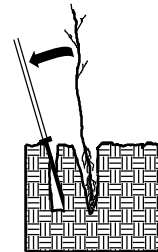
1. Insert planting bar as shown and pull handle toward planter.



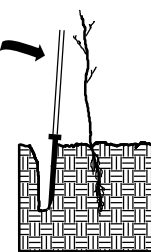
2. Remove planting bar and place seedling at correct depth.



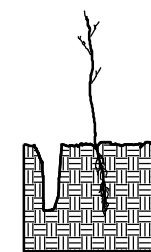
3. Insert planting bar 2 inches toward planter from seedling.



4. Pull handle of bar toward planter, firming soil at bottom.



5. Push handle forward firming soil at top.



6. Leave compaction hole open. Water thoroughly.

#### PLANTING NOTES:

**PLANTING BAG**  
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.



**KJC PLANTING BAR**  
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



**ROOT PRUNING**  
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

## WETLAND REFORESTATION

- WETLAND REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

#### WETLAND REFORESTATION

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

|                        |              |                  |
|------------------------|--------------|------------------|
| 25% QUERCUS NIGRA      | WATER OAK    | 12 in - 18 in 3R |
| 25% QUERCUS PHELLOS    | WILLOW OAK   | 12 in - 18 in 3R |
| 25% TAXODIUM DISTICHUM | BALD CYPRESS | 12 in - 18 in 3R |
| 25% NYSSA AQUATICA     | WATER TUPELO | 12 in - 18 in 3R |

SEE PLAN SHEETS FOR AREAS TO BE PLANTED

## WETLAND REFORESTATION DETAIL SHEET

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

**From:** [Cashin, Gordon E](#)  
**To:** [Shaver, Brad E CIV USARMY CESAW \(USA\)](#)  
**Cc:** [Steenhuis, Joanne](#); [Herndon, T. Mason](#); [Matthews, Monte K CIV USARMY CESAW \(USA\)](#); [Rivenbark, Chris](#)  
**Subject:** RE: [External] B 5639 NW 23 request  
**Date:** Friday, April 17, 2020 2:17:17 PM  
**Attachments:** [B-5639 Reforestation detail.pdf](#)  
[B-5639 DMS Acceptance.pdf](#)  
[B-5639 Permit Package Wetland 20200415.pdf](#)  
[B5639 Wetland Impact Summary Form 20200415.xlsx](#)

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Brad,

I had promised you some answers this week, so here is where we stand:

1. I sent the CE document to you by e-mail previously.
2. The DMS acceptance letter is dated March 9, and accepts 0.280 acre of riparian impacts (attached). The actual number will go down a bit since we have switched some of the mechanized land clearing has switched to handclearing. We can revise the acceptance later.
3. The drawings have been changed to put handclearing outside of the detour instead of mechanized.
4. Sheet 5 is in the new package. (attached)
5. Division 2 has indicated that the slope of the temporary detour will be wrapped with geotextile fabric to aid in restoring the area back to preexisting elevations. A reforestation detail sheet has been prepared by our mitigation and monitoring group (attached), and the site can be monitored for 2 years if desired.
6. We have learned that an estimated 0.03 Ac of Temporary Fill will be needed in the Hand Clearing areas for Erosion Control measures.

I will be adding all of this info to the online PCN once I figure out how to supplement one through that system.

Have a nice weekend, everyone!

Gordon Cashin  
(919) 749-0442

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**From:** Shaver, Brad E CIV USARMY CESAW (USA) <Brad.E.Shaver@usace.army.mil>  
**Sent:** Thursday, April 9, 2020 3:03 PM  
**To:** Rivenbark, Chris <crivenbark@ncdot.gov>; Cashin, Gordon E <gcashin@ncdot.gov>  
**Cc:** Steenhuis, Joanne <joanne.steenhuis@ncdenr.gov>; Herndon, T. Mason <tmherndon@ncdot.gov>; Matthews, Monte K CIV USARMY CESAW (USA) <Monte.K.Matthews@usace.army.mil>  
**Subject:** [External] B 5639 NW 23 request

**CAUTION:** External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [report.spam@nc.gov](mailto:report.spam@nc.gov)

Chris/Gordon,

The application has been received and reviewed and found to be incomplete for processing. I have discussed the project with DWR and we request the following information to continue processing:

- In order to utilize NW 23 we will need to confirm that the impacts requested are contained within the CE document. Please include the CE on your re submittal.
- Please include the mitigation reservation letter from NC DMS.
- The current plan calls for permanent impacts (MC) bordering the temporary impacts. Typically temporary impacts are bordered by temporary impacts (HC). Please either change this or explain why additional avoidance can't be realized.
- Permit drawing 10 of 15 has a match line on the left side of the page to sheet 5. Sheet 5 is not in the package please provide this sheet so that impacts can be confirmed absent or present.
- Finally, the temporary fill in wetlands is greater than 0.25 of an acre. Please further explain how this temporary impact will be constructed and what steps will take place to avoid permanent impacts such as compaction. Also further explain the restoration activities anticipated upon project completion to include how will successful restoration be judged. With this amount of impact will at minimum a couple years of monitoring be appropriate?

If you have any questions about this email please don't hesitate to give me a call.

Thanks,

Brad