



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:*

Edgecombe

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:

BR-0112

WBS #*

48821.1.1

(for NCDOT use only)

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

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

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

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

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

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

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

Yes No

Nationwide Permit (NWP) Number:

03 - Maintenance

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-404 Jurisdictional General Permit

Individual Permit

401 Water Quality Certification - Express

Riparian Buffer Authorization

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

*

For the record only for DWR 401 Certification:

Yes No

For the record only for Corps Permit:

Yes No

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

Yes

No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program

- Yes No

Acceptance Letter Attachment

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

FILETYPE MUST BE PDF

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

- Yes No

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

- Yes No

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

B. Applicant Information

1a. Who is the Primary Contact? *

NCDOT

1b. Primary Contact Email: *

jjdilday@ncdot.gov

1c. Primary Contact Phone: *

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

1d. Who is applying for the permit? *

- Owner (Check all that apply) Applicant (other than owner)

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

- Yes No

2. Owner Information

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

NCDOT

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address *

Street Address

1000 Birch Ridge Drive

Address Line 2

City

Raleigh

Postal / Zip Code

27610

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

Replacement of Bridge 35 over Otter Creek on SR1616 (BR-0112 Central)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Crisp

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

2d. Site coordinates in decimal degrees

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

Latitude:*

35.731036
ex: 34.208504

Longitude:*

-77.613576
-77.796371

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

Otter Creek

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

C; NSW

[Surface Water Lookup](#)

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

Tar-Pamlico

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

030201030203

[River Basin Lookup](#)

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

Land use in the project vicinity consists primarily of forested communities, agricultural fields and low-density residential sites.

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:

3.3

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

(intermittent and perennial)

620

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

The purpose of the project is to replace a structurally deficient bridge.

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

This project involves replacing the existing 3 span, 122-foot bridge with a 3 span, 148-foot bridge on the existing alignment. Traffic will be maintained on an off-site detour. Standard road building equipment, such as trucks, dozers and cranes will be used.

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

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

BR0112_BufferDrawings_20191209.pdf

1.1MB

BR0112_PermitDrawings_20191209.pdf

3.57MB

BR-0112_UtilityBuffer_20191209.pdf

1.09MB

BR-0112_UtilityDrawings_20191209.pdf

2.8MB

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:

PJD package submitted 4/29/2019, no written verification received to date.

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

Preliminary Approved Not Verified Unknown N/A

Corps AID Number:

Example: SAW-2017-99999

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

Name (if known): James Mason

Agency/Consultant Company: Three Oaks Engineering

Other:

5d1. Jurisdictional determination upload

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

File type must be PDF

6. Future Project Plans

6a. Is this a phased project? *

Yes

No

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

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

Wetlands

Streams-tributaries

Buffers

Open Waters

Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

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

2a. Site # * (?)	2a1 Reason * (?)	2b. Impact type * (?)	2c. Type of W. *	2d. W. name *	2e. Forested *	2f. Type of Jurisdiction * (?)	2g. Impact area *
1	Fill	P	Riverine Swamp Forest	WA	Yes	Corps	0.009 <small>(acres)</small>
1	Mech. Clearing	P	Riverine Swamp Forest	WA	Yes	Corps	0.009 <small>(acres)</small>

2g. Total Temporary Wetland Impact

0.000

2g. Total Permanent Wetland Impact

0.018

2g. Total Wetland Impact

0.018

2h. Comments:

There will be 0.05 ac of handclearing in wetlands associated with the bridge replacement and utility relocation.

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 * <small>Average (feet)</small>	3h. Impact length * <small>(linear feet)</small>
S1	Abutment/Riprap	Permanent	Fill	Otter Creek	Perennial	Both	70 <small>Average (feet)</small>	32 <small>(linear feet)</small>

S2	Abutment/Riprap	Temporary	Dewatering	Otter Creek	Perennial	Both	70 Average (feet)	40 (linear feet)
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** 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:

32

3i. Total temporary stream impacts:

40

3i. Total stream and ditch impacts:

72

3j. Comments:

6. Buffer Impacts (for DWR)

If project will impact a protected riparian buffer, then complete the chart below. Individually list all buffer impacts below.

6a. Project is in which protect basin(s)? *

Check all that apply.

- Neuse
- Catawba
- Goose Creek
- Other
- Tar-Pamlico
- Randleman
- Jordan Lake

6b. Impact Type * (?)	6c. Per or Temp * (?)	6d. Stream name *	6e. Buffer mitigation required? *	6f. Zone 1 impact *	6g. Zone 2 impact *
1-Bridge-Allowable	P	Otter Creek	No	1,808 (square feet)	14 (square feet)
1-Road Crossing-Allowable	P	Otter Creek	No	594 (square feet)	1,835 (square feet)
1-Utility Relocation-Allowable	P	Otter Creek	No	1,063 (square feet)	1,062 (square feet)

6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	0.00	0.00

	Zone 1	Zone 2
Total Permanent impacts:	3,465.00	2,911.00

	Zone 1	Zone 2
Total combined buffer impacts:	3,465.00	2,911.00

6i. Comments:

Supporting Documentation - i.e. Impact Maps, Plan Sheet, etc.

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

File must be PDF

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 bridge will be replaced on the existing alignment. There will be no deck drains. See stormwater management plan for additional minimization measures.

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

An offsite detour will be used during construction. NCDOT's Design Standards for Sensitive Watersheds will be adhered to.

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

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

Impacts to streams and wetlands are considered minimal and do not require mitigation. All buffer impacts are considered allowable without mitigation.

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

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

1b. All buffer impacts and high ground impacts require diffuse flow or other form of stormwater treatment. If the project is subject to a state implemented riparian buffer protection program, include a plan that fully documents how diffuse flow will be maintained.

All Stormwater Control Measures (SCM)s must be designed in accordance with the [NC Stormwater Design Manual](#). Associated supplement forms and other documentation shall be provided.

What type of SCM are you providing?

- Level Spreader
- Vegetated Conveyance (lower SHWT)
- Wetland Swale (higher SHWT)
- Other SCM that removes minimum 30% nitrogen
- Proposed project will not create concentrated stormwater flow through the buffer

(check all that apply)

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

Diffuse Flow Documentation

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

File type must be PDF

2. Stormwater Management Plan

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

Yes No

Comments:

G. Supplementary Information

1. Environmental Documentation

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

Yes No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? *

Yes No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) *

Yes No

NEPA or SEPA Final Approval Letter

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

FILE TYPE MUST BE PDF

2. Violations (DWR Requirement)

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

Yes No

3. Cumulative Impacts (DWR Requirement)

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

Yes No

3b. If you answered "no," provide a short narrative description.

Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.

4. Sewage Disposal (DWR Requirement)

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

Yes No N/A

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

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

Yes No

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

Yes No

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

Raleigh

5d. Is another Federal agency involved? *

Yes No Unknown

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

Yes No

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

N.C. Natural Heritage Program database; USFWS-Raleigh Field Office website; biological surveys for protected species listed for Edgecombe County, which include Tar River spiny mussel, yellow lance, dwarf wedgemussel, red-cockaded woodpecker. All current listed species received biological conclusions of "No Effect".

Consultation Documentation Upload

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

File type must be PDF

6. Essential Fish Habitat (Corps Requirement)

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

Yes No

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

NMFS County Index

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

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? *

NEPA documentation

7c. Historic or Prehistoric Information Upload

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

File must be PDF

8. Flood Zone Designation (Corps Requirement)

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

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

Yes No

8b. If yes, explain how project meets FEMA requirements:

NCDOT Hydraulics Unit coordination with FEMA.

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

FEMA maps

Miscellaneous



[Comments](#)

Miscellaneous attachments not previously requested.

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

File must be PDF or KMZ

Signature



*

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

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

Full Name: *

Mack Christopher Rivenbark, III

Signature

Mack C. Rivenbark, III

Date

12/17/2019



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 48821.1.1 TIP No.: BR-0112 County(ies): Edgecombe Page 1 of 1

General Project Information

WBS Element:	48821.1.1	TIP Number:	BR-0112	Project Type:	Bridge Replacement	Date:	10/9/2019
NCDOT Contact:	Chad Coggins		Contractor / Designer:	Wetherill Engineering, Inc. / Apassman, PE			
Address:	Highway Division 4 509 Ward Blvd, PO BOX 3165 Wilson, NC 27895		Address:	1223 Jones Franklin Rd. Raleigh, NC 27606			
	Phone: 252-237-6164			Phone: 919-851-8077			
	Email: ccoggins@ncdot.gov			Email: apassman@wetherilleng.com			
City/Town:	N/A		County(ies):	Edgecombe			
River Basin(s):	Tar-Pamlico		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.09	Surrounding Land Use:	Rural, wooded				
	Proposed Project			Existing Site			
Project Built-Up Area (ac.)	0.4	ac.	0.3	ac.			
Typical Cross Section Description:	The proposed site will be two 10' lanes with variable paved shoulders approaching the bridge, up to 5.5'.			Existing site has two 10' lanes with variable grass shoulders.			
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	Year:	Existing:	340	Year:	2019	
General Project Narrative: (Description of Minimization of Water Quality Impacts)	This project will maintain existing drainage practices. There will be no deck drains on the bridge. Runoff will leave the site via modified concrete flumes on the south side of the bridge, both line ahead and line back. Discharging into wetlands could not be avoided line ahead, however it was minimized by using rock plating to steepen the embankment slopes. All drainage discharges onto Rip Rap dissipator pads to reduce velocity and scour.						

Waterbody Information

Surface Water Body (1):	Otter Creek		NCDWR Stream Index No.:	28-86-(0.3)				
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C					
	Supplemental Classification:		Nutrient Sensitive Waters (NSW)					
Other Stream Classification:	None							
Impairments:	None							
Threatened/Endangered Species?	No	Comments:						
NRTR Stream ID:				Buffer Rules in Effect:	Tar-Pamlico			
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?				Yes
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)				
(If yes, provide justification in the General Project Narrative)								

09/06/19

See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional Symbols
 See Sheet RW02C-1 TO RW02C-2 For Survey Control Sheets

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

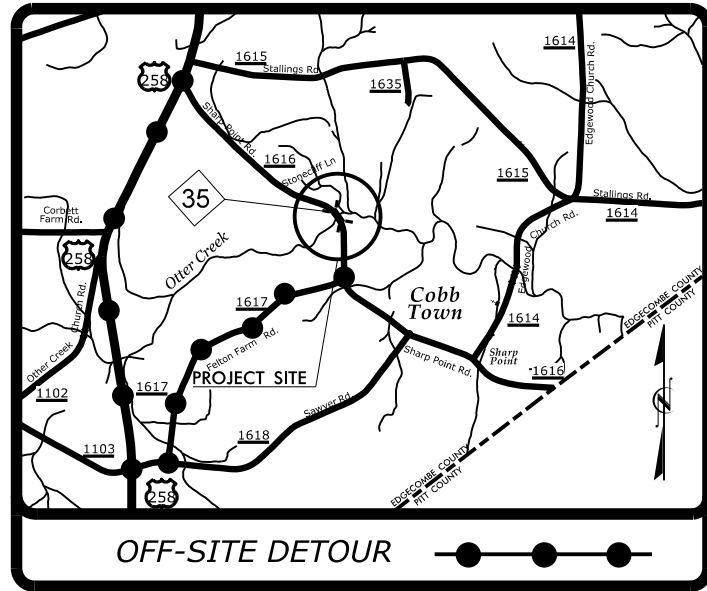
EDGECOMBE COUNTY

**LOCATION: BRIDGE NO. 320035 OVER OTTER CREEK
 ON SR 1616 (SHARP POINT RD.)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT: BR-0112



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0112	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48821.1.1		PE	
48821.1.1		ROW, UTIL.	

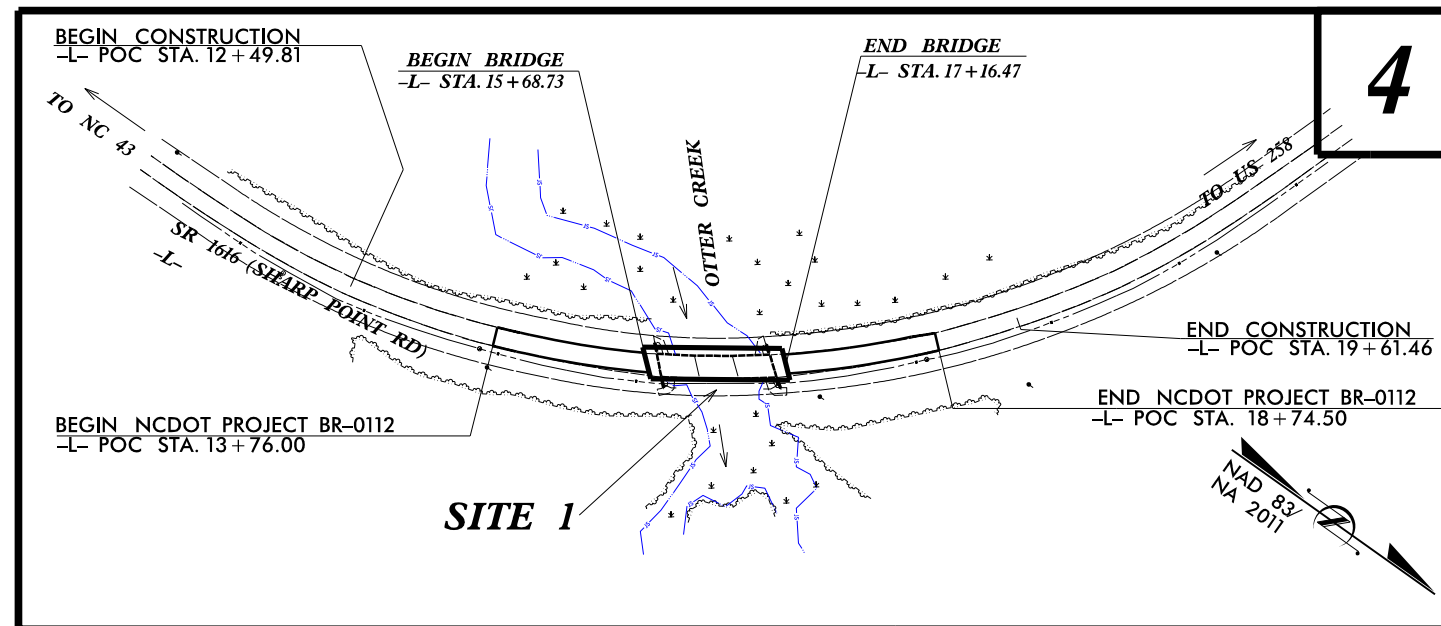
WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

BRIDGE #320035

**PERMIT DRAWING
 SHEET 1 OF 5**

NO DECK DRAINS



NOTE:
 DESIGN EXCEPTION REQUIRED FOR THE HORIZONTAL STOPPING SIGHT DISTANCE

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
 THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

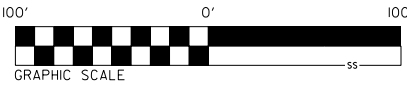
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

CONTRACT:

<p>GRAPHIC SCALES</p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p>	<p>DESIGN DATA ADT 2019 = 340</p> <p>T = 6 % * V = 55 MPH</p> <p>* (TTST = 3% + DUAL = 3%) FUNC CLASS = RURAL LOCAL SUBREGIONAL TIER</p>	<p>PROJECT LENGTH</p> <p>LENGTH ROADWAY PROJECT BR-0112 = 0.066 MILES LENGTH STRUCTURE PROJECT BR-0112 = 0.028 MILES TOTAL LENGTH PROJECT BR-0112 = 0.094 MILES</p>		<p>Prepared for: DIVISION OF HIGHWAYS STRUCTURES MANAGEMENT UNIT 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610</p> <p>2018 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: EDWARD G. WETHERILL, PE PROJECT ENGINEER NOVEMBER 20, 2019</p> <p>LETTING DATE: GREG S. PURVIS, PE PROJECT DESIGN ENGINEER AUGUST 18, 2020</p>	<p>HYDRAULICS ENGINEER</p> <p>_____ SIGNATURE: P.E.</p> <p>ROADWAY DESIGN ENGINEER</p> <p>_____ SIGNATURE: P.E.</p>	
		<p>NCDOT CONTACT: DAVID STUTTS, PE PROJECT ENGINEER - PEFPROGRAM MGT.</p>				

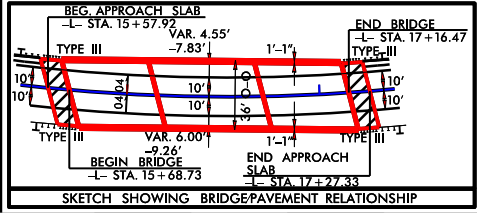
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 \$\$\$DDN\$\$\$\$\$
 \$\$\$SERNAME\$\$\$\$\$

**PERMIT DRAWING
SHEET 2 OF 5**



NOTE:
BEGIN S/BG
STA. 14+75.00
TO 15+52.48 LT.
BEGIN S/BG
STA. 17+24.66
TO 17+47.00 LT.

NOTE:
ROCK PLATE 1.5:1
FROM -L- STA. 17+24.66 TO 17+75.00 LT
ROCK PLATE 1.5:1
FROM -L- STA. 17+30.59 TO 17+65.00 RT



SPECIAL LATERAL 'V' DITCH DATA
STA 14+75 TO STA 15+62 -L- RT
Q10 = CIA=1.0 CFS
C=0.4, I10=6.0 m/hr, A=0.4AC
SIDES=3:1, 3:1 L50=2.8%, n=0.04
D10=0.4 Ft., V10=1.9 F/S

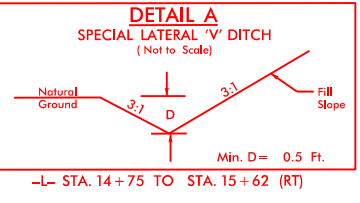
NOTE:
DESIGN EXCEPTION REQUIRED FOR THE HORIZONTAL
STOPPING SIGHT DISTANCE

JEAN MATTHEWS

ETHERILL
ENGINEERING
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

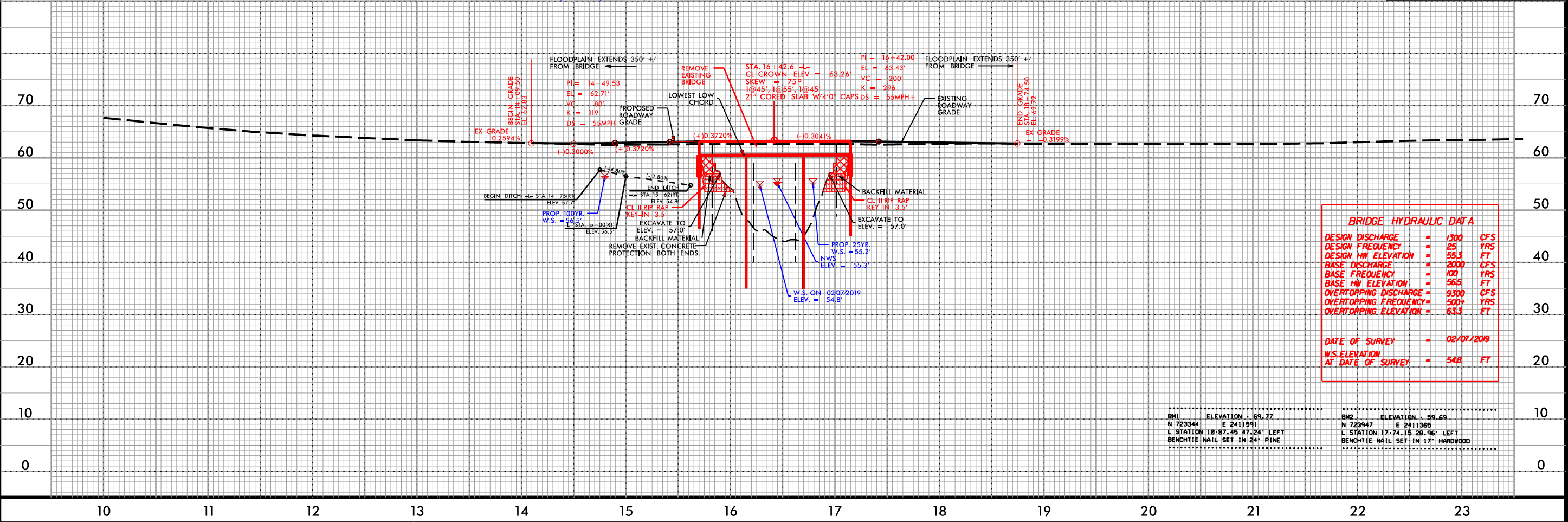
PROJECT REFERENCE NO. BR-0112	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES MECHANIZED CLEARING
- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING

SEE SHEETS S-1 THRU S-? FOR STRUCTURE PLANS



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1300 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 55.3 FT
BASE DISCHARGE	= 2000 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 56.5 FT
OVERTOPPING DISCHARGE	= 9300 CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 63.3 FT

DATE OF SURVEY = 02/07/2019
W.S. ELEVATION AT DATE OF SURVEY = 54.8 FT

BM1 ELEVATION = 69.77
N 723344 E 2411591
L STATION 10+87.45 47.24' LEFT
BENCHMARK MAIL SET IN 24" PINE

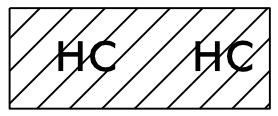
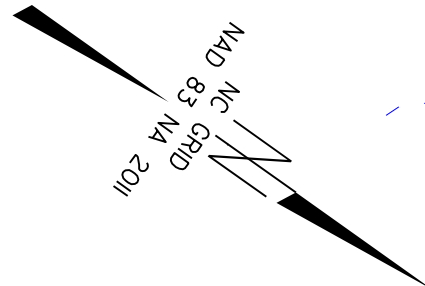
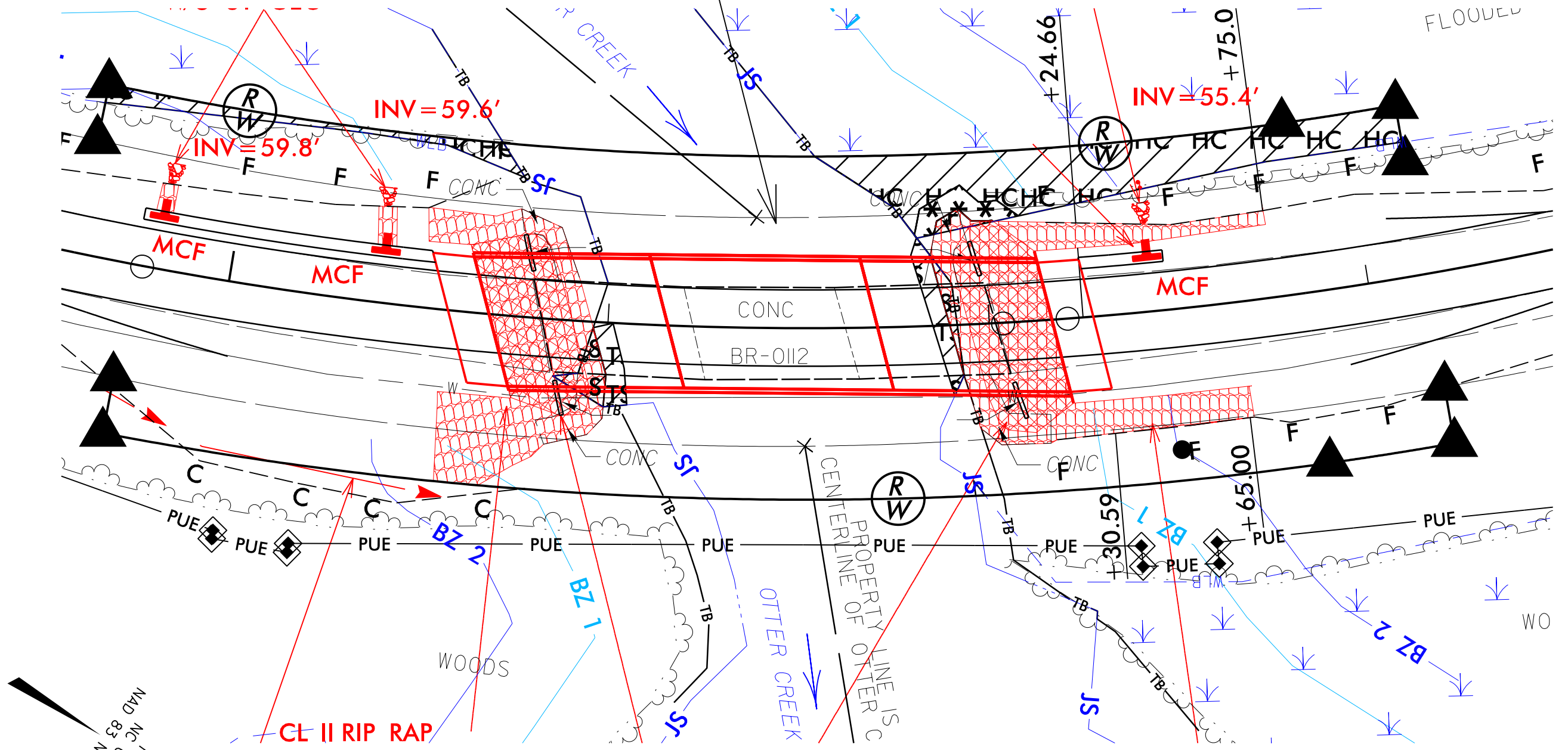
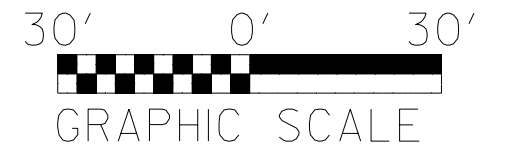
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N 723947 E 2411365
L STATION 17+74.15 28.96' LEFT
BENCHMARK MAIL SET IN 17" HARDWOOD

REVISIONS

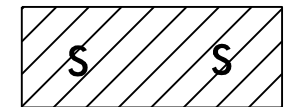
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PERMIT DRAWING SHEET 2A OF 5

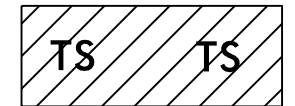
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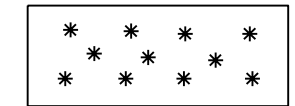
DENOTES HAND CLEARING



DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

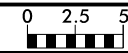


DENOTES MECHANIZED CLEARING



DENOTES FILL IN WETLAND

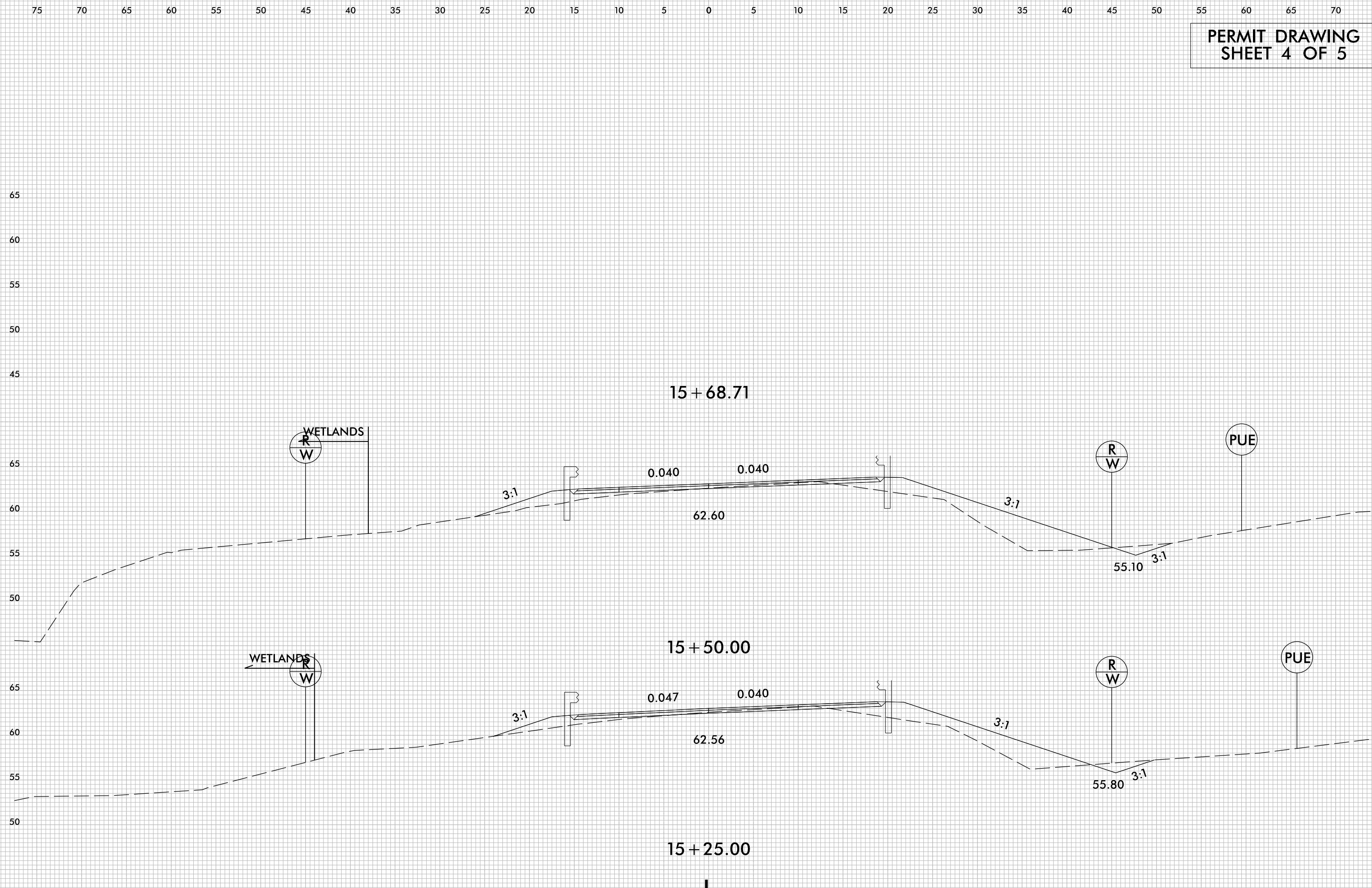
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PROJ. REFERENCE NO.
BR-0112

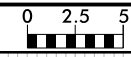
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X-2

PERMIT DRAWING
SHEET 4 OF 5



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8/23/99

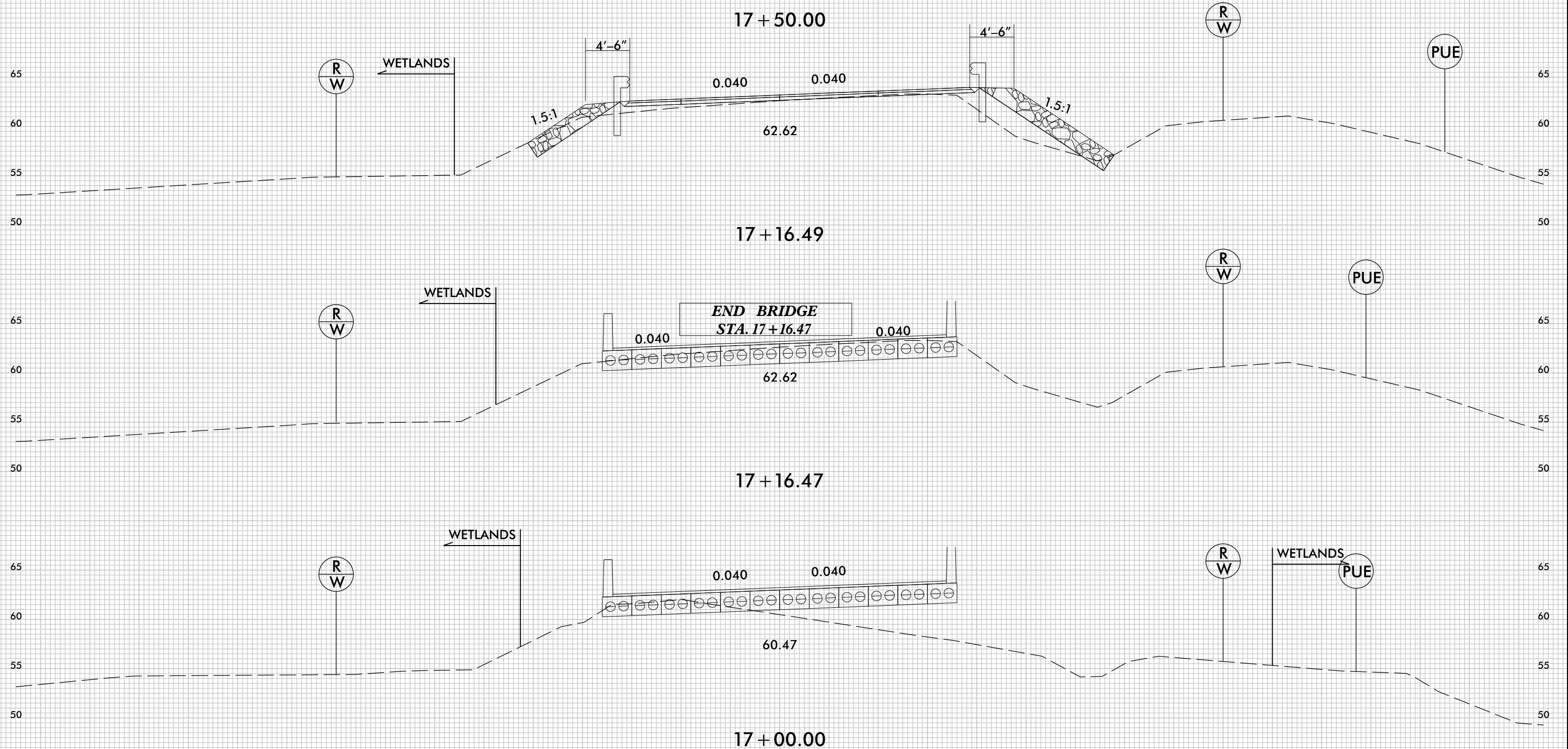


PROJ. REFERENCE NO.
BR-0112

SHEET NO.
X-4

PERMIT DRAWING
SHEET 4A OF 5

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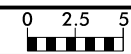


-L-

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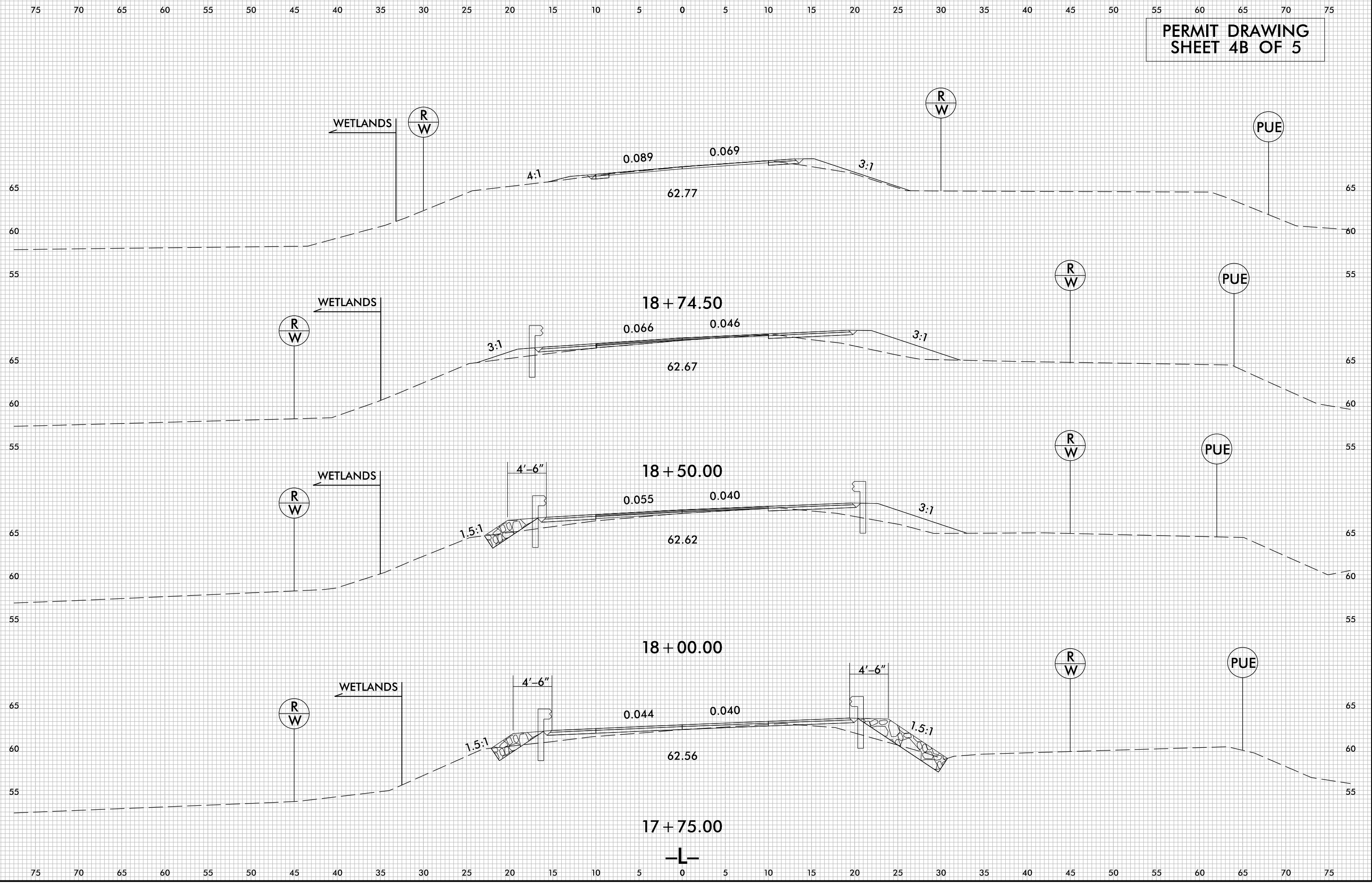
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12/5/2019
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USER: TBrooks



PROJ. REFERENCE NO.
BR-0112
SHEET NO.
X-5

PERMIT DRAWING
SHEET 4B OF 5



-L-

WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 15+70 to 17+15	145' Bridge	< 0.01			< 0.01	0.05	< 0.01	< 0.01	32	40	
TOTALS*:			< 0.01			< 0.01	0.05	< 0.01	< 0.01	32	40	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 12/5/2019
 Edgecombe County
 TIP# BR-0112
 48821.1.1
 SHEET 5 OF 5

09/06/19

See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional Symbols
 See Sheet 100120-0 TO 21002CS for C&G Sheets

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

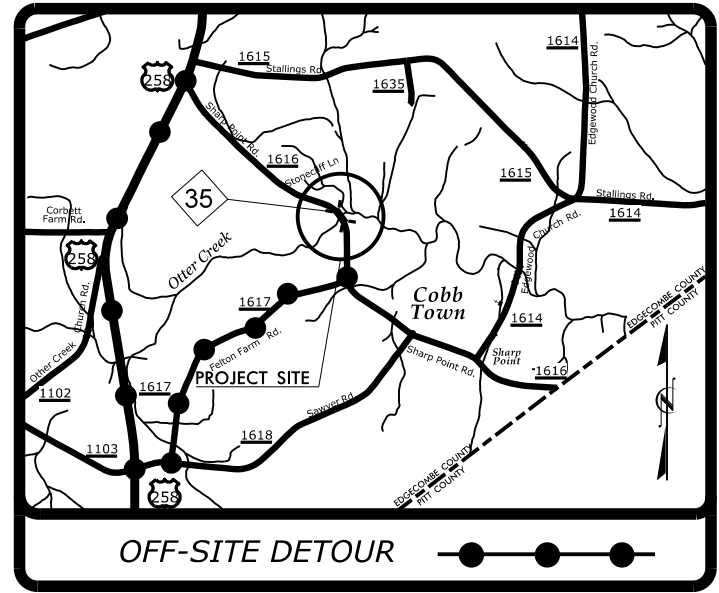
EDGEcombe COUNTY

**LOCATION: BRIDGE NO. 320035 OVER OTTER CREEK
 ON SR 1616 (SHARP POINT RD.)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

BUFFER IMPACTS PERMIT

PROJECT: BR-0112



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0112	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48821.1.1		PE	
48821.2.1		ROW, UTIL.	

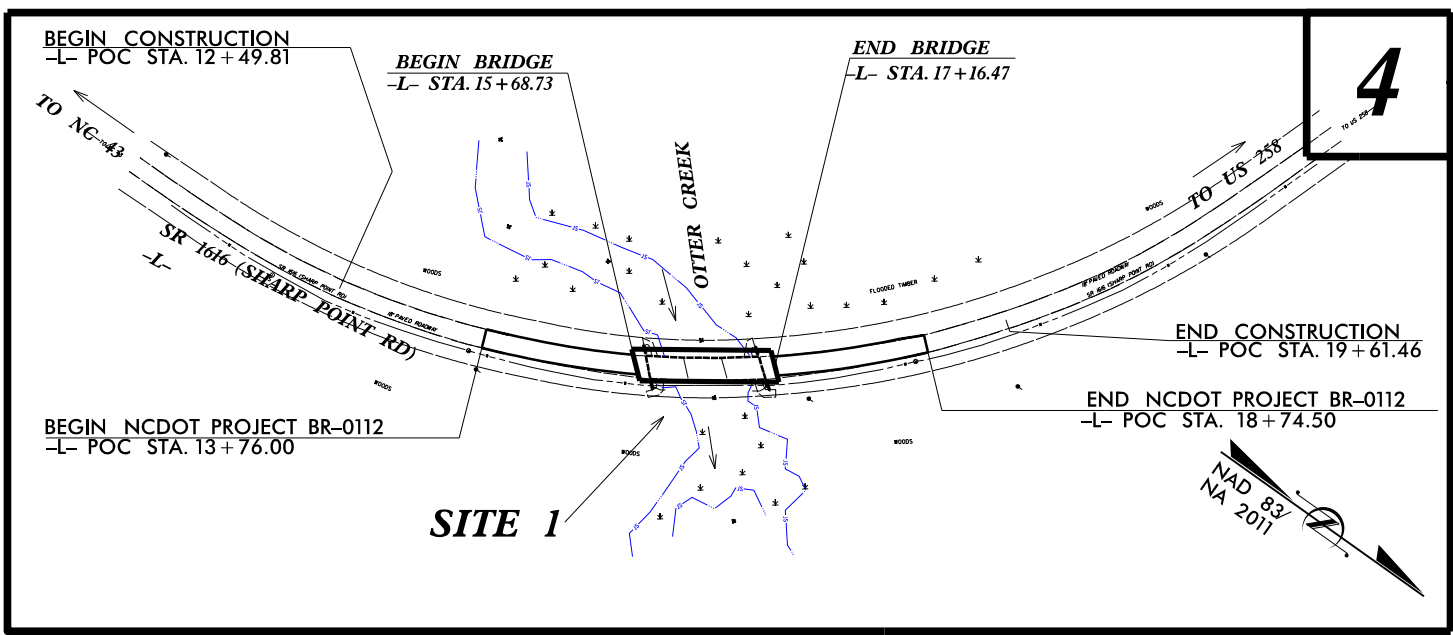
WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

BRIDGE #320035

BUFFER DRAWING SHEET 1 OF 4

NO DECK DRAINS

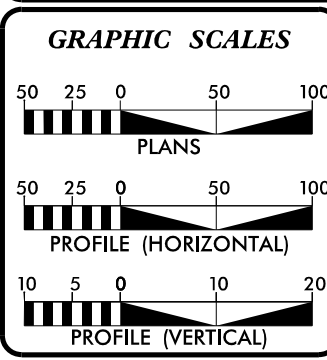


NOTE:
 DESIGN EXCEPTION REQUIRED FOR THE HORIZONTAL STOPPING SIGHT DISTANCE

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
 THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA
 ADT 2019 = 340

T = 6 % *
 V = 55 MPH

* (TTST = 3% +
 DUAL = 3%)
 FUNC CLASS =
 RURAL LOCAL
 SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT BR-0112 =	0.066 MILES
LENGTH STRUCTURE PROJECT BR-0112 =	0.028 MILES
TOTAL LENGTH PROJECT BR-0112 =	0.094 MILES

NCDOT CONTACT: **DAVID STUTTS, PE**
 PROJECT ENGINEER - PEE/PROGRAM MGT.

Prepared for:
DIVISION OF HIGHWAYS
STRUCTURES MANAGEMENT UNIT
 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: **SEPTEMBER 30, 2019**

LETTING DATE:
 AUGUST 12, 2020

EDWARD G. WETHERILL, PE
 PROJECT ENGINEER

GREG S. PURVIS, PE
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

 SIGNATURE: P.E.

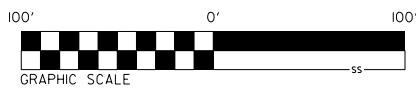
ROADWAY DESIGN ENGINEER

 SIGNATURE: P.E.



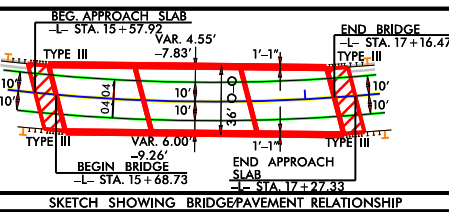
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 \$\$\$SERNAME\$\$\$\$\$

**BUFFER DRAWING
SHEET 2 OF 4**



NOTE:
BEGIN SBG
STA. 14+75.00
TO 15+52.48 LT.
BEGIN SBG
STA. 17+24.66
TO 17+47.00 LT.

NOTE:
ROCK PLATE 1.5:1
FROM -L- STA. 17+24.66 TO 17+75.00 LT
ROCK PLATE 1.5:1
FROM -L- STA. 17+30.59 TO 17+65.00 RT



SPECIAL LATERAL 'V' DITCH DATA
STA. 14+75 TO STA. 15+62 -L- RT
Q10=C1A=1.0 CFS
C=0.4, n0=6.0 in/hr, A=0.4Ac
SIDES=3:1, 3:1 LSo=2.8%, n=0.04
D10=0.4 Ft, V10=1.9 Fps

NOTE:
DESIGN EXCEPTION REQUIRED FOR THE HORIZONTAL STOPPING SIGHT DISTANCE

JEAN MATTHEWS

SPECIAL LATERAL 'V' DITCH
SEE DETAIL A

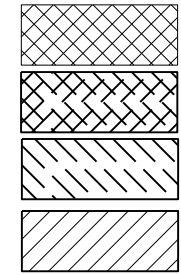
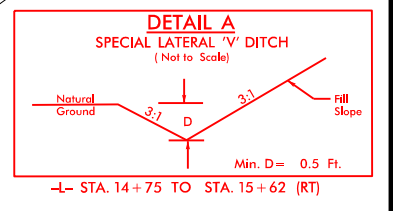
RODNEY M. WOOTEN ET AL

ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

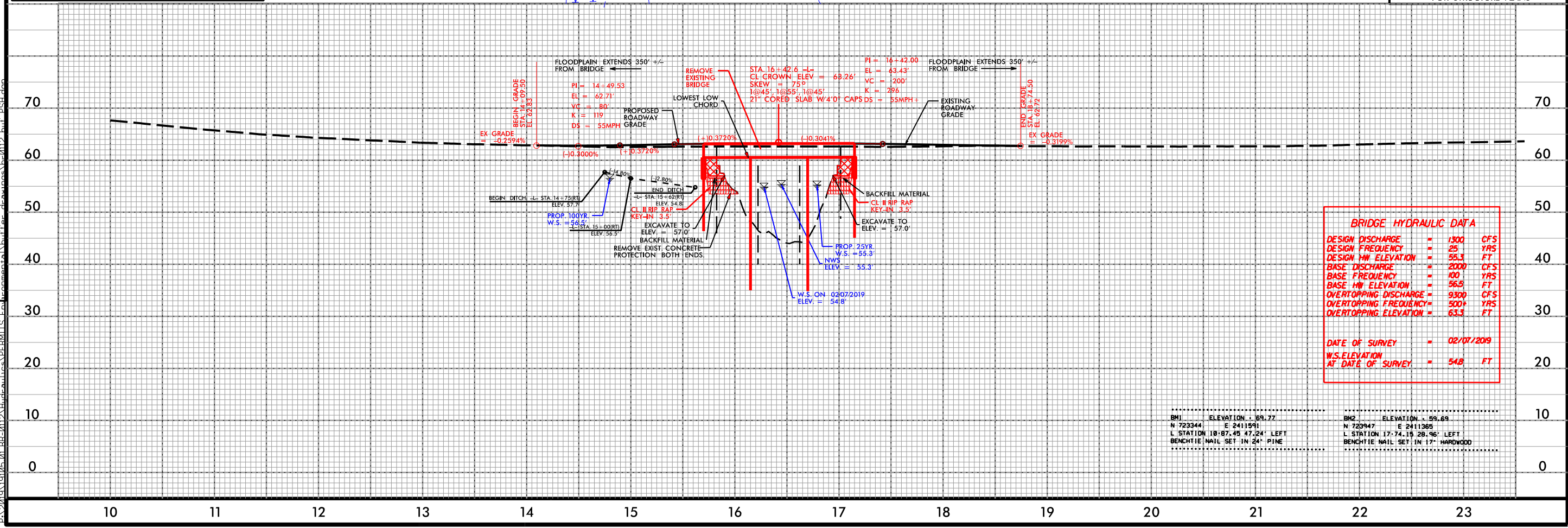
PROJECT REFERENCE NO. BR-0112	SHEET NO. 4
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



- ALLOWABLE IMPACTS ZONE 1 (BRIDGE)
- ALLOWABLE IMPACTS ZONE 1 (ROAD)
- ALLOWABLE IMPACTS ZONE 2 (ROAD)
- ALLOWABLE IMPACTS ZONE 2 (BRIDGE)

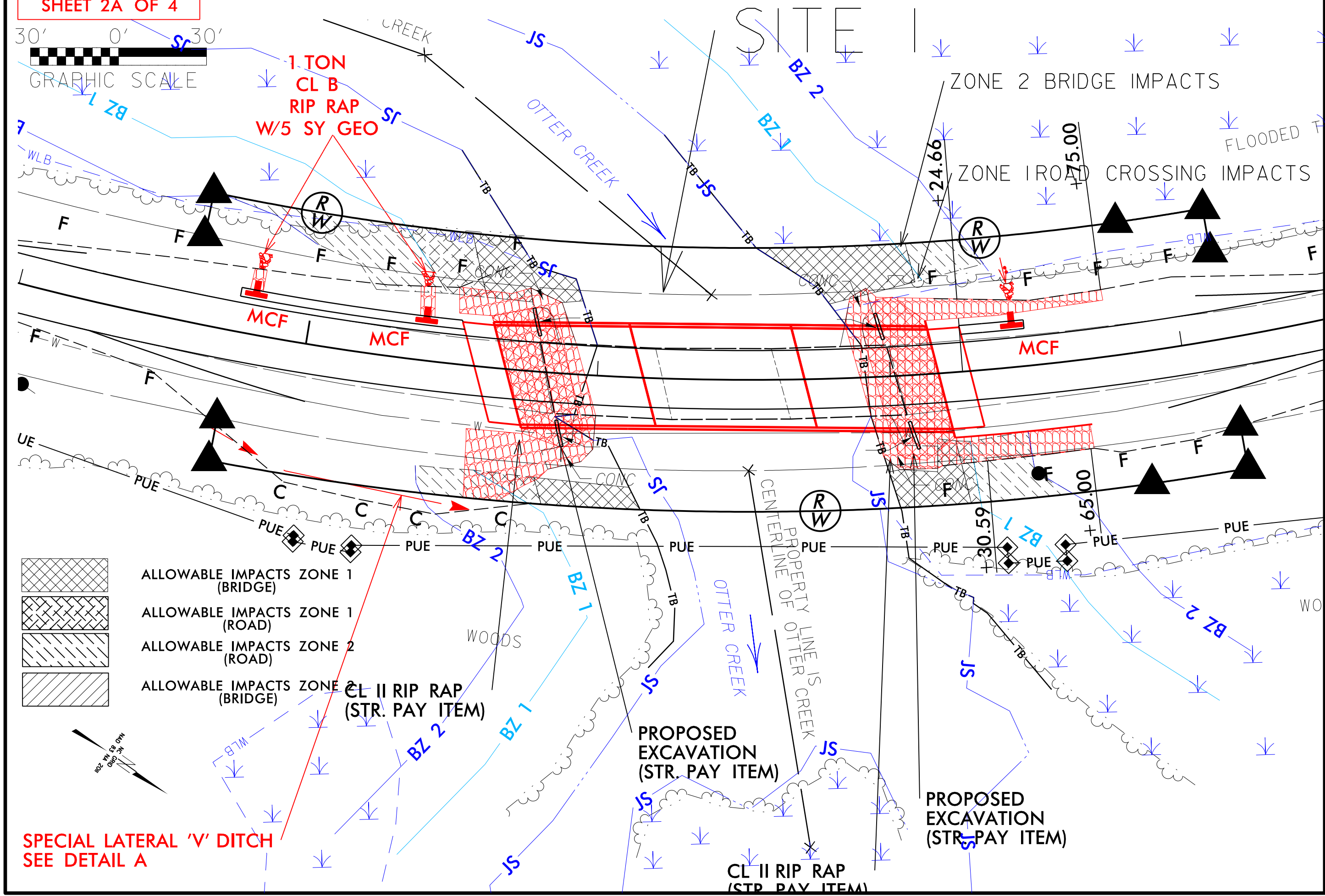
SEE SHEETS S-1 THRU S-2 FOR STRUCTURE PLANS







REVISIONS

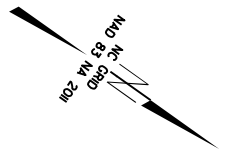
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12/9/2019 AM
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**BUFFER DRAWING
SHEET 2A OF 4**



-  ALLOWABLE IMPACTS ZONE 1 (BRIDGE)
-  ALLOWABLE IMPACTS ZONE 1 (ROAD)
-  ALLOWABLE IMPACTS ZONE 2 (ROAD)
-  ALLOWABLE IMPACTS ZONE 2 (BRIDGE)

**SPECIAL LATERAL 'V' DITCH
SEE DETAIL A**



**CL II RIP RAP
(STR. PAY ITEM)**

**PROPOSED
EXCAVATION
(STR. PAY ITEM)**

**PROPOSED
EXCAVATION
(STR. PAY ITEM)**

**CL II RIP RAP
(STR. PAY ITEM)**

RIPARIAN BUFFER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft ²)	ZONE 2 (ft ²)
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)		
1	-L- 15+50 to 17+75	145' Bridge		X		1808	14	1822					
		145' Bridge	X			594	1835	2429					
TOTALS*:						2402	1849	4251	0	0	0	0	0

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 12/5/2019
 Edgecombe Co.
 TIP# BR-0012
 48821.1.1
 SHEET 3 OF 4

Revised 2018 Feb

WETLANDS IN BUFFER IMPACTS SUMMARY

SITE NO.	STATION (FROM/TO)	WETLANDS IN BUFFERS	
		ZONE 1 (ft ²)	ZONE 2 (ft ²)
1	-L- 15+50 to 17+75	780	381
TOTAL:		780	381

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 12/5/2019
 Edgecombe Co.
 TIP# BR-0112
 48821.1.1
 SHEET 4 OF 4

See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional Symbols
 See Sheet RW02C-1 TO RW02C-2 For Survey Control Sheets

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

EDGECOMBE COUNTY

LOCATION: BRIDGE NO. 320035 OVER OTTER CREEK
 ON SR 1616 (SHARP POINT RD.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

UTILITY BUFFER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0112	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48821.1.1		PE	
48821.2.1		ROW, UTIL.	
48821.3.1		CONST.	

WETHERILL ENGINEERING
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 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

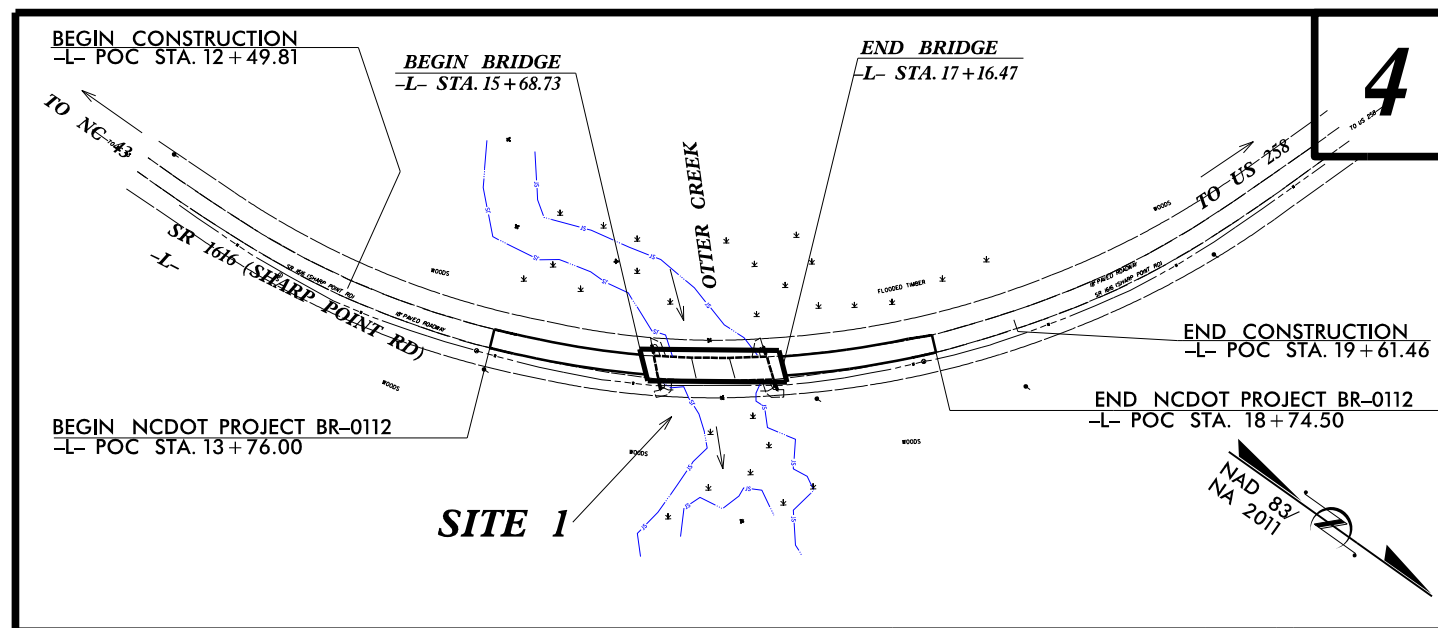
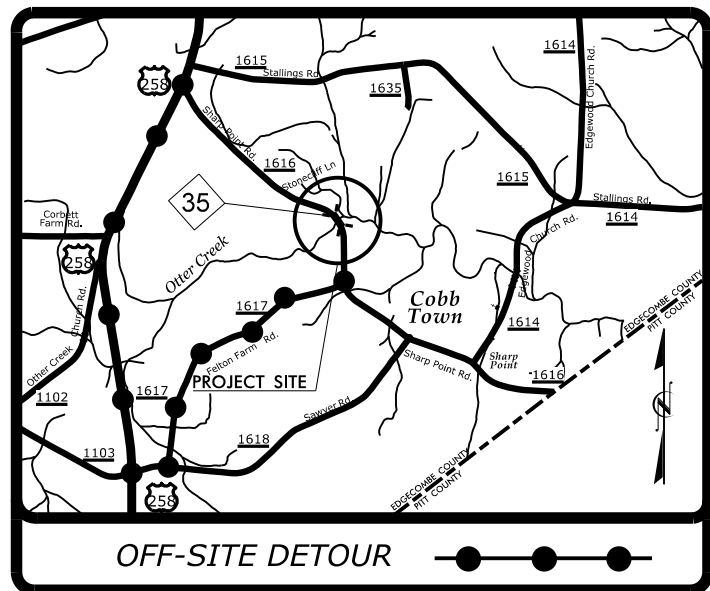
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

BRIDGE #320035

BUFFER DRAWING SHEET 1 OF 4

NO DECK DRAINS

PROJECT: BR-0112



NOTE:
 DESIGN EXCEPTION REQUIRED FOR THE HORIZONTAL STOPPING SIGHT DISTANCE

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
 THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

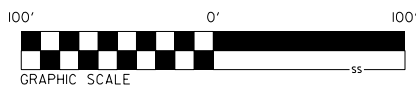
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 UNLESS ALL SIGNATURES COMPLETED

CONTRACT:

<p>GRAPHIC SCALES</p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p>	<p>DESIGN DATA ADT 2020 = 340</p> <p>T = 6 % * V = 55 MPH</p> <p>* (TTST = 3% + DUAL = 3%) FUNC CLASS = RURAL LOCAL SUBREGIONAL TIER</p>	<p>PROJECT LENGTH</p> <p>LENGTH ROADWAY PROJECT BR-0112 = 0.066 MILES LENGTH STRUCTURE PROJECT BR-0112 = 0.028 MILES TOTAL LENGTH PROJECT BR-0112 = 0.094 MILES</p>		<p>Prepared for: DIVISION OF HIGHWAYS STRUCTURES MANAGEMENT UNIT 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610</p>		<p>HYDRAULICS ENGINEER</p> <p>_____ SIGNATURE: P.E.</p>		
		<p>NCDOT CONTACT: DAVID STUTTS, PE PROJECT ENGINEER - PEE/PROGRAM MGT.</p>		<p>2018 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: EDWARD G. WETHERILL, PE SEPTEMBER 30, 2019 PROJECT ENGINEER</p> <p>LETTING DATE: GREG S. PURVIS, PE JULY 21, 2020 PROJECT DESIGN ENGINEER</p>		<p>_____ SIGNATURE: P.E.</p> <p>ROADWAY DESIGN ENGINEER</p>		

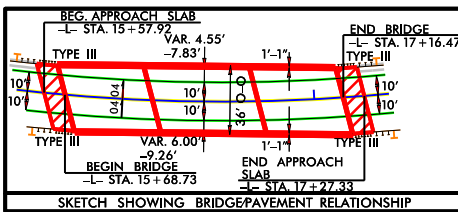
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**BUFFER DRAWING
SHEET 2 OF 4**



NOTE:
BEGIN SBG
STA. 14+75.00
TO 15+52.48 LT.
BEGIN SBG
STA. 17+24.66
TO 17+47.00 LT.

NOTE:
ROCK PLATE 1.5:1
FROM -L- STA. 17+24.66 TO 17+75.00 LT
ROCK PLATE 1.5:1
FROM -L- STA. 17+30.59 TO 17+65.00 RT



SPECIAL LATERAL 'V' DITCH DATA
STA. 14+75 TO STA. 15+62 -L- RT
Q10=C1A=1.0 CFS
C=0.4, n0=6.0 in/hr, A=0.4Ac
SIDES=3:1, 3:1 LSo=2.8%, n=0.04
D10=0.4 Ft, V10=1.9 Fps

NOTE:
DESIGN EXCEPTION REQUIRED FOR THE HORIZONTAL STOPPING SIGHT DISTANCE

JEAN MATTHEWS

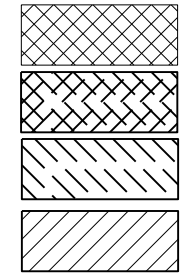
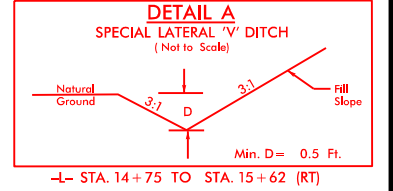
SPECIAL LATERAL 'V' DITCH
SEE DETAIL A

RODNEY M. WOOTEN ET AL

ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

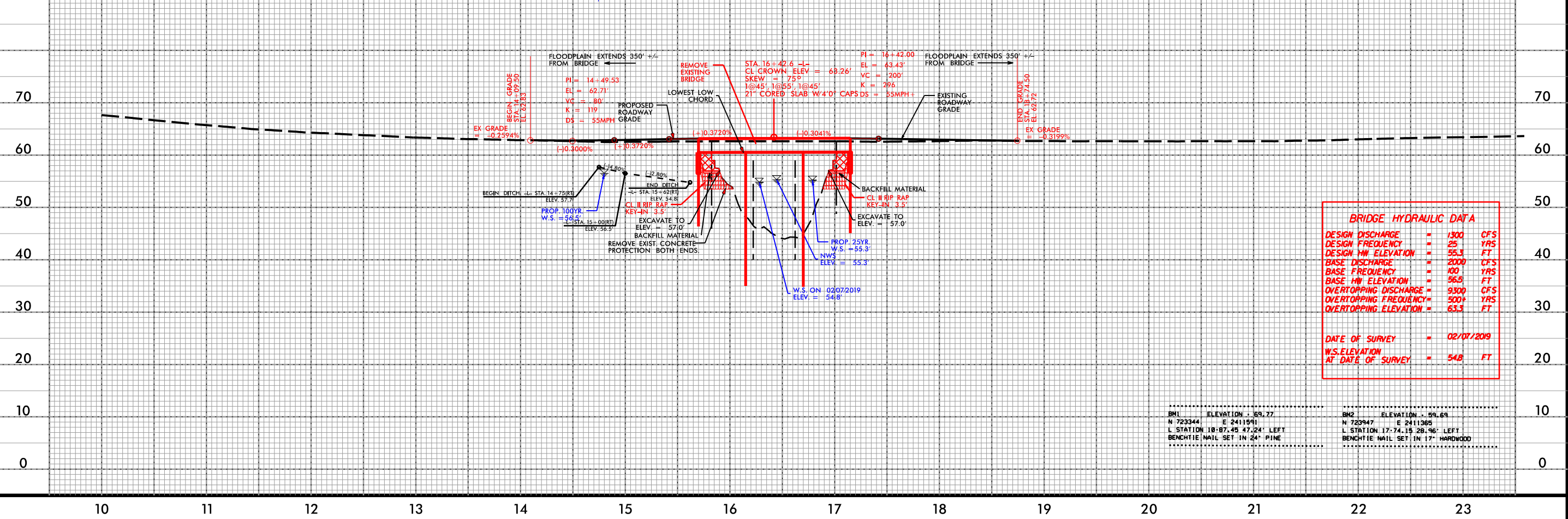
PROJECT REFERENCE NO. BR-0112	SHEET NO. 4
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



ALLOWABLE IMPACTS ZONE 1 (BRIDGE)
ALLOWABLE IMPACTS ZONE 1 (ROAD)
ALLOWABLE IMPACTS ZONE 2 (ROAD)
ALLOWABLE IMPACTS ZONE 2 (BRIDGE)

SEE SHEETS S-1 THRU S-2 FOR STRUCTURE PLANS



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1300 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 55.3 FT
BASE DISCHARGE	= 2000 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 56.5 FT
OVERTOPPING DISCHARGE	= 9300 CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 63.3 FT

DATE OF SURVEY = 02/07/2019
W.S. ELEVATION AT DATE OF SURVEY = 54.8 FT

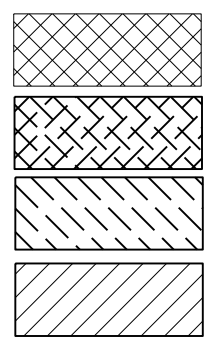
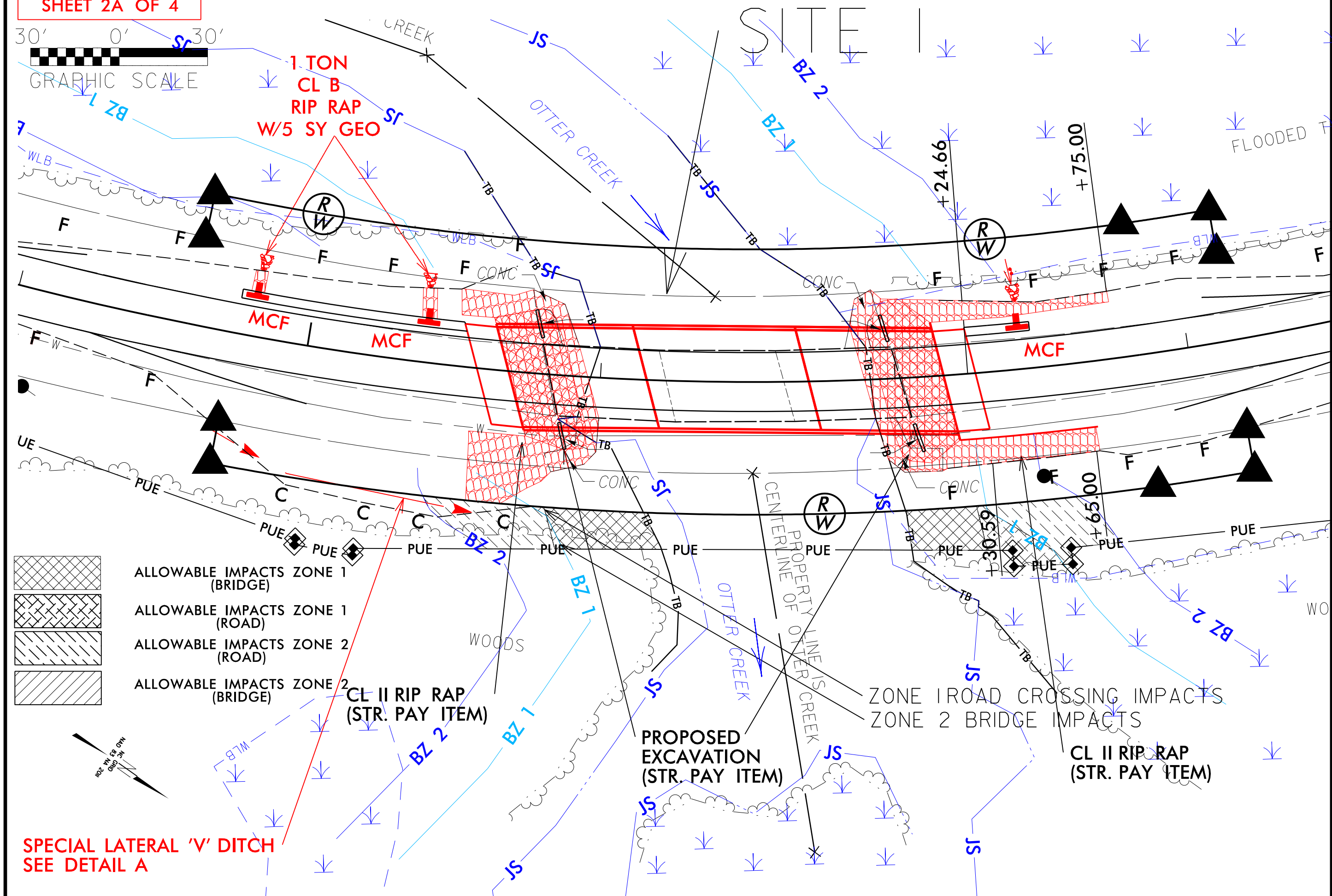
BM1 ELEVATION = 69.77
N 723344 E 2411591
L STATION 18:07.45 47.24' LEFT
BENCHMARK SET IN 24" PINE

BM2 ELEVATION = 69.69
N 723947 E 2411365
L STATION 17:74.15 28.96' LEFT
BENCHMARK SET IN 17" HARDWOOD

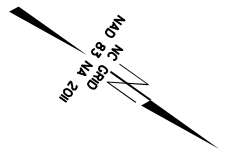
REVISIONS

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**BUFFER DRAWING
SHEET 2A OF 4**



**SPECIAL LATERAL 'V' DITCH
SEE DETAIL A**



09/06/19

See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional Symbols
 See Sheet RW02C-1 TO RW02C-2 For Survey Control Sheets

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

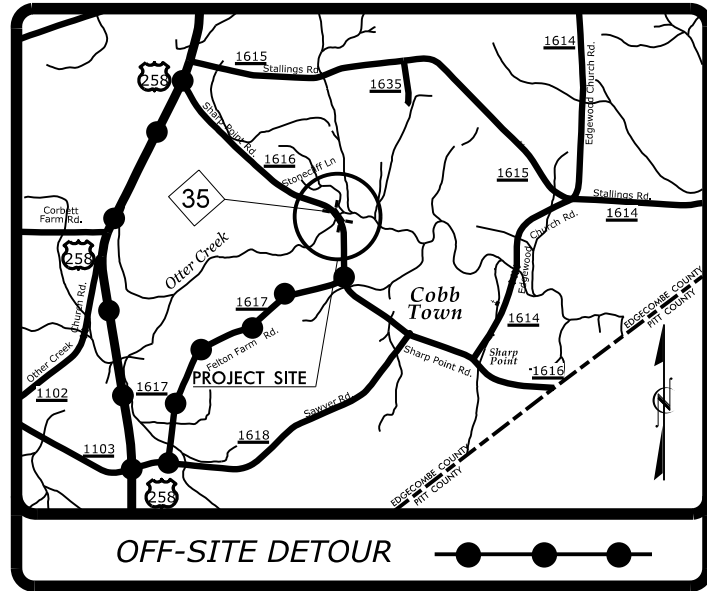
EDGECOMBE COUNTY

**LOCATION: BRIDGE NO. 320035 OVER OTTER CREEK
 ON SR 1616 (SHARP POINT RD.)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

UTILITIES WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT: BR-0112



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0112	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48821.1.1		PE	
48821.2.1		ROW, UTIL.	
48821.3.1		CONST.	

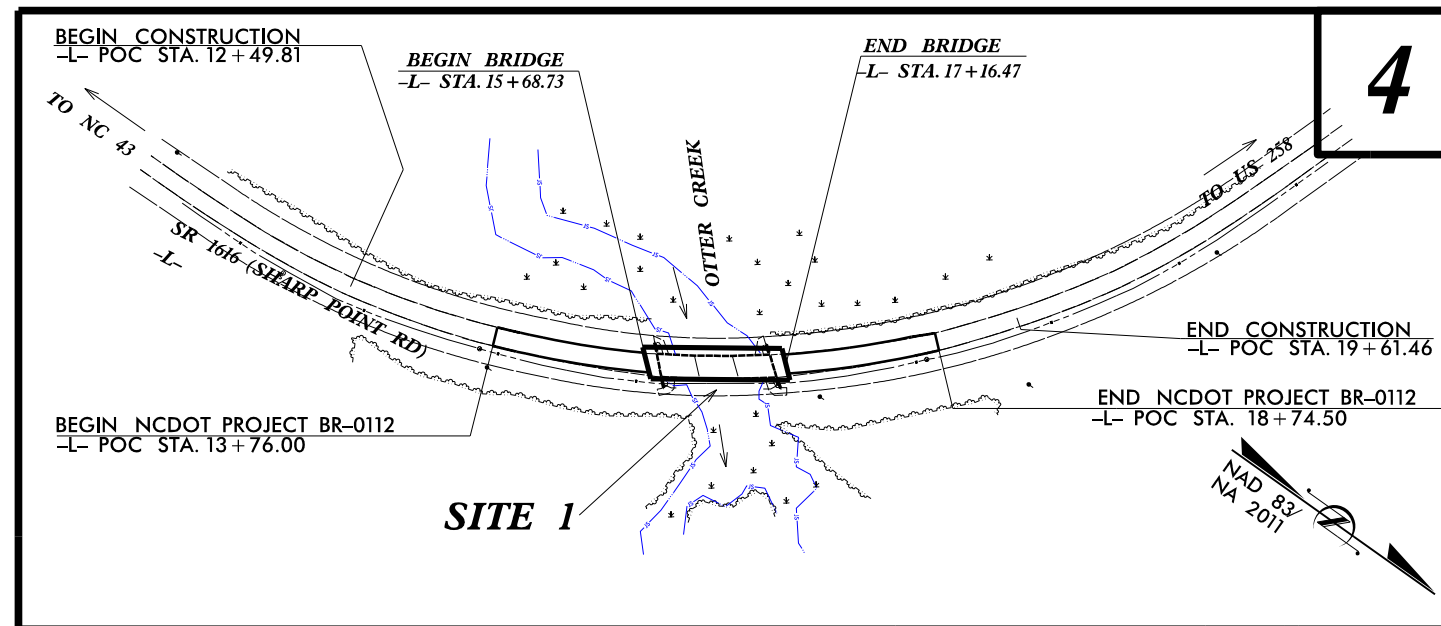
WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

BRIDGE #320035

**PERMIT DRAWING
 SHEET 1 OF 5**

NO DECK DRAINS

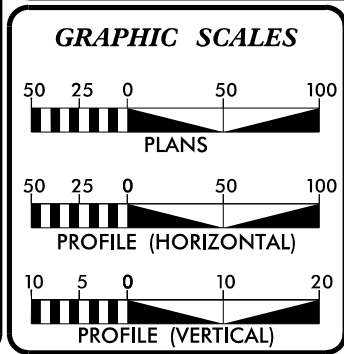


NOTE:
 DESIGN EXCEPTION REQUIRED FOR THE HORIZONTAL STOPPING SIGHT DISTANCE

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
 THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA
 ADT 2020 = 340

T = 6 % *
 V = 55 MPH

* (TTST = 3% +
 DUAL = 3%)
 FUNC CLASS =
 RURAL LOCAL
 SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT BR-0112 =	0.066 MILES
LENGTH STRUCTURE PROJECT BR-0112 =	0.028 MILES
TOTAL LENGTH PROJECT BR-0112 =	0.094 MILES

NCDOT CONTACT: **DAVID STUTTS, PE**
 PROJECT ENGINEER - PEFPROGRAM MGT.

Prepared for:
**DIVISION OF HIGHWAYS
 STRUCTURES MANAGEMENT UNIT**
 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: EDWARD G. WETHERILL, PE
 PROJECT ENGINEER
 NOVEMBER 20, 2019

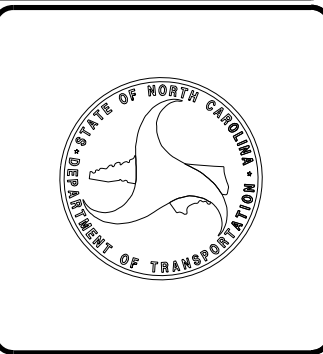
LETTING DATE: GREG S. PURVIS, PE
 PROJECT DESIGN ENGINEER
 AUGUST 18, 2020

HYDRAULICS ENGINEER

 SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

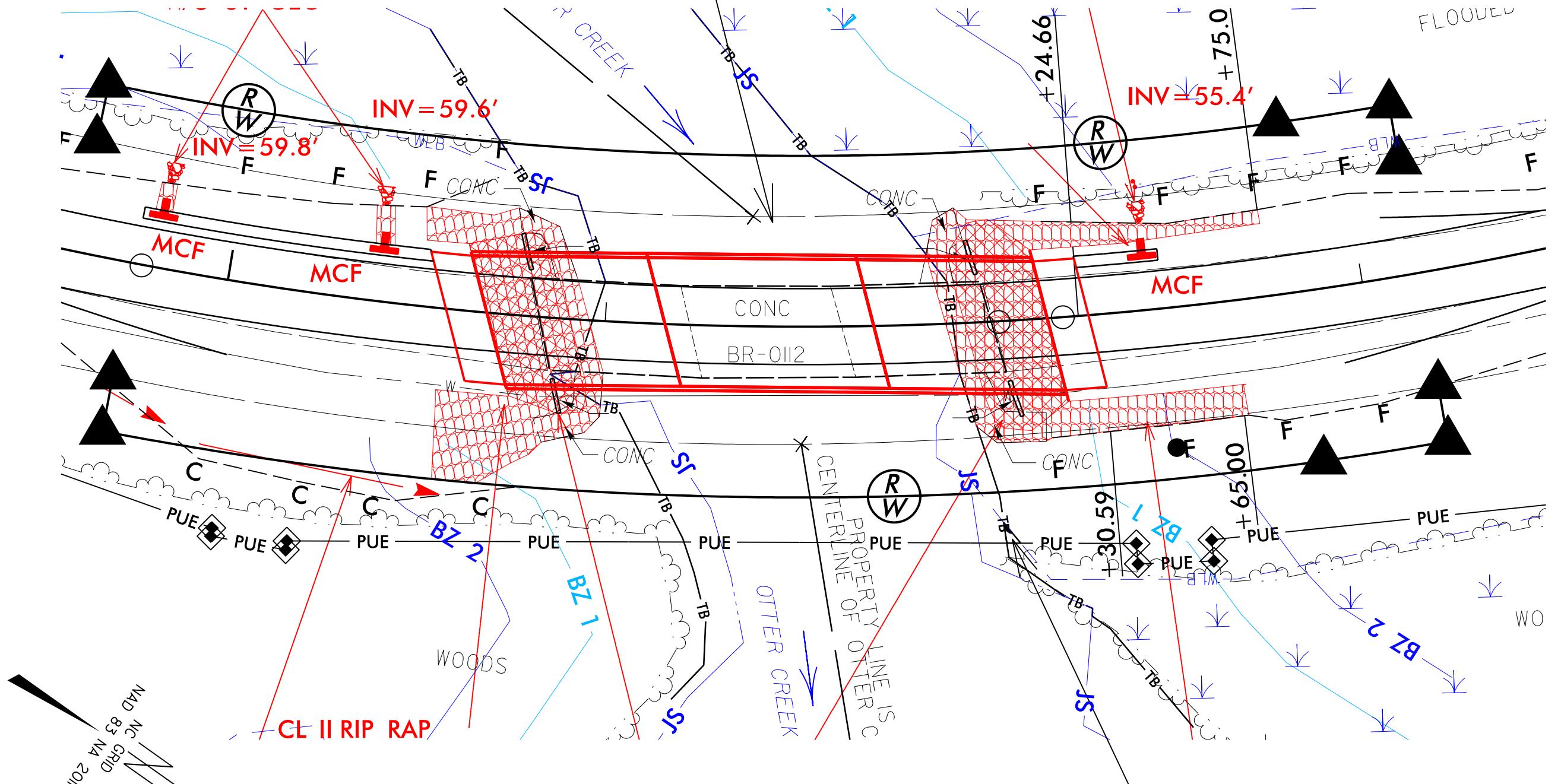
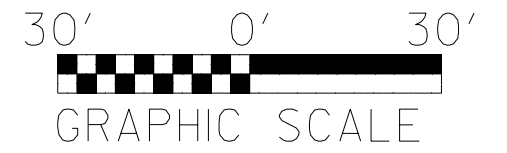
 SIGNATURE: P.E.



\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$DDN\$\$\$\$\$
 \$\$\$SERNAME\$\$\$\$\$

PERMIT DRAWING SHEET 2A OF 5

SITE 1



HAND CLEARING IN WETLANDS

HC HC DENOTES HAND CLEARING

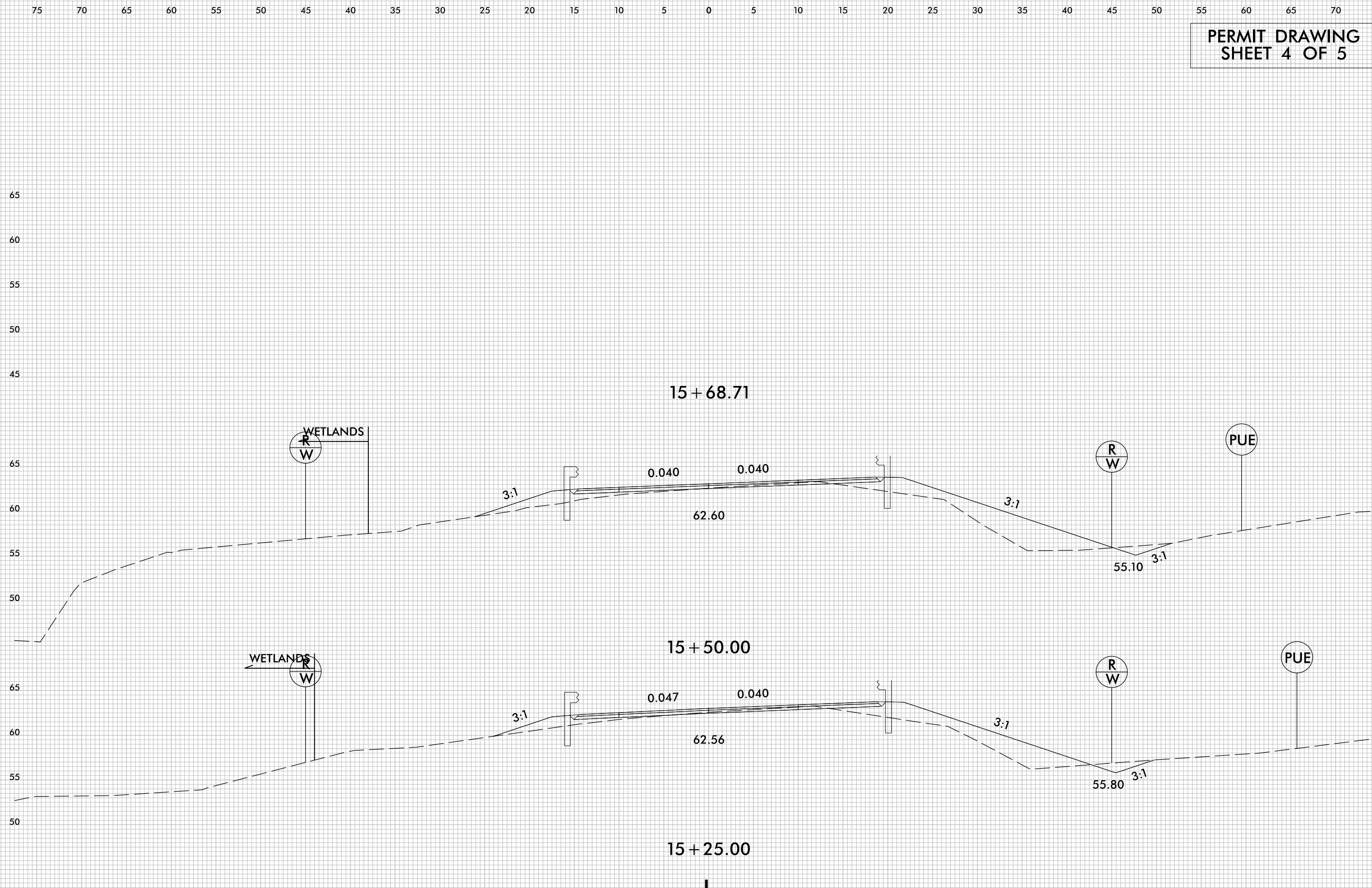
8/23/99



PROJ. REFERENCE NO.
BR-0112

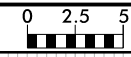
SHEET NO.
X-2

PERMIT DRAWING
SHEET 4 OF 5



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8/23/99

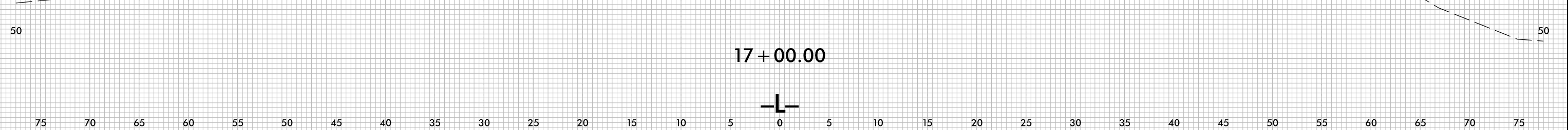
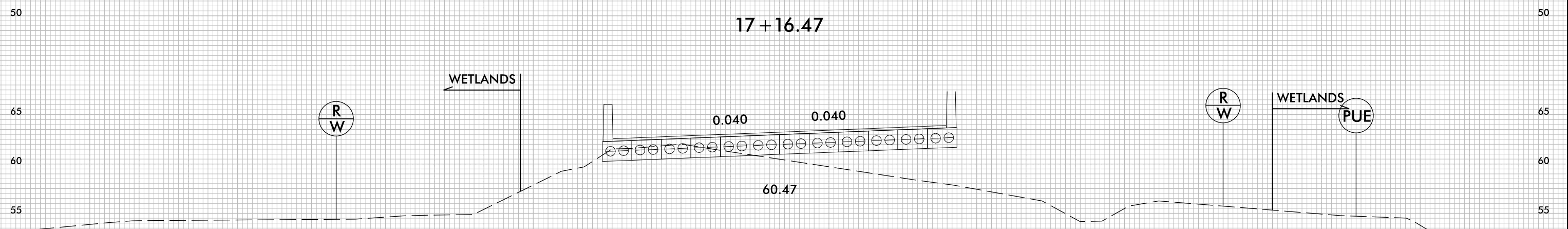
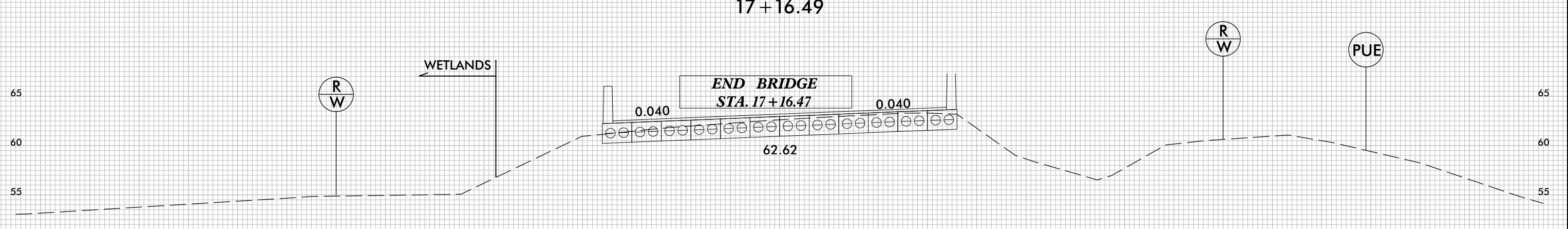
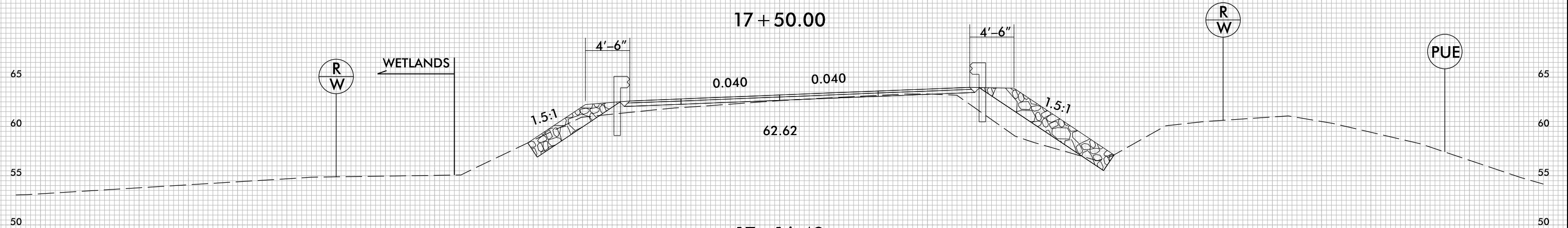


PROJ. REFERENCE NO.
BR-0112

SHEET NO.
X-4

PERMIT DRAWING
SHEET 4A OF 5

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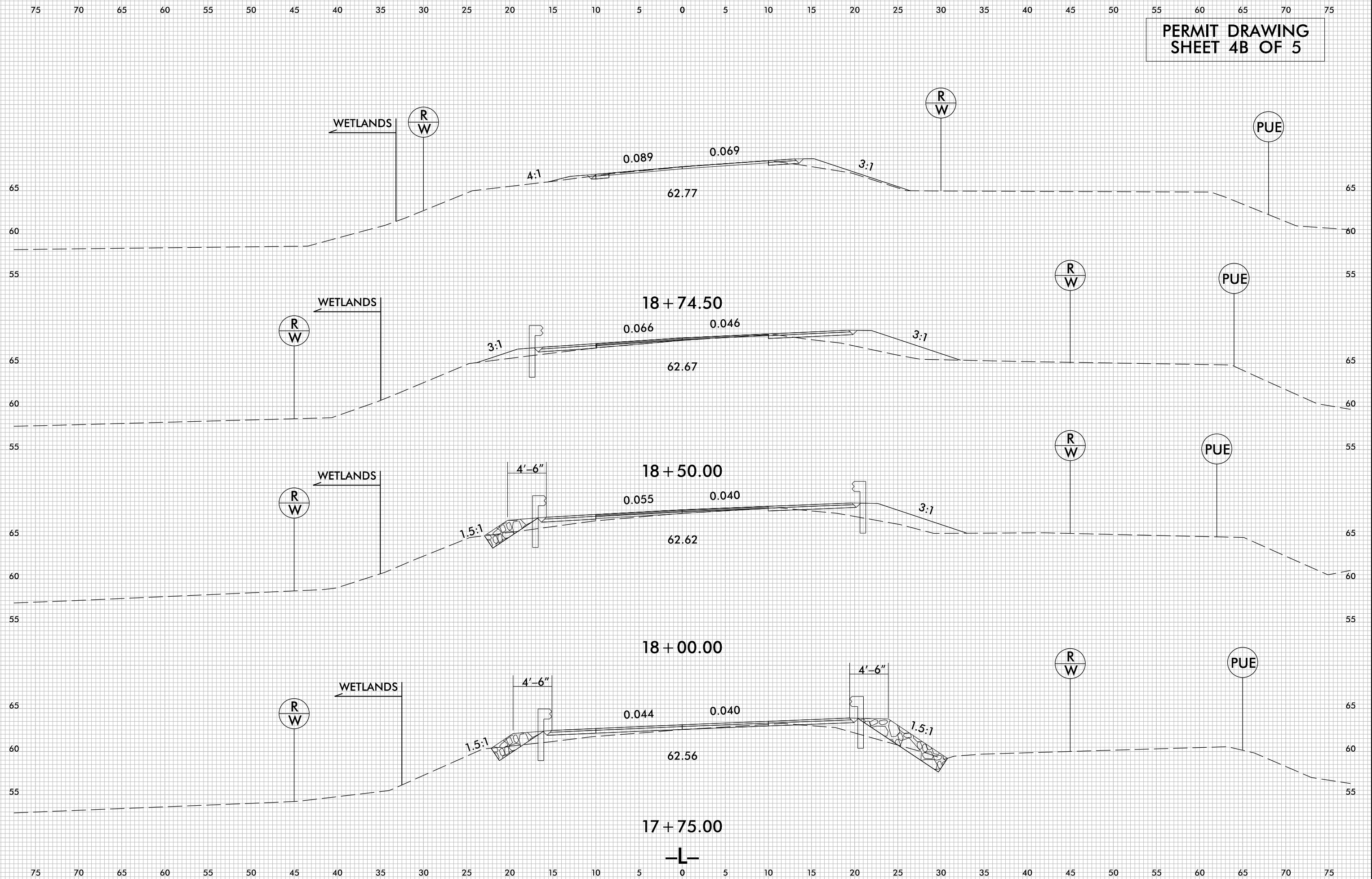


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8/23/99
12/5/2019
C:\Users\jgibson\OneDrive\Documents\Drawings\BR-0112_RDY_XPL.dgn
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PERMIT DRAWING
SHEET 4B OF 5



WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 15+70 to 17+15	145' Bridge					< 0.01					
TOTALS*:							< 0.01			0	0	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 12/5/2019
 Edgecombe County
 TIP# BR-0112
 48821.1.1
 SHEET 5 OF 5