



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

March 24, 2020

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

ATTN: Ms. Lori Beckwith, NCDOT Coordinator

Subject: **Request for Revision to Section 404 Nationwide Permit, Section 401 Water Quality Certification** for the Proposed Replacement of Bridge No. 8 on NC 194 over the North Fork New River in Ashe County; TIP BR-0002, Division 11, Debit \$240 from WBS Element 67002.1.1

Reference: Section 404 Permit, (Action ID SAW-2019-02373), issued February 11, 2020
Section 401 Water Quality Certification (NCDWR Project No. 20191658), issued December 19, 2019

Ms. Beckwith:

The NCDOT Geotechnical Unit has performed additional scour calculations that prompted changes to the retaining wall located parallel to Buffalo Creek. This resulted in to changes to the pervious permitted design.

The retaining wall, established to avoid impacts to Buffalo Creek, will shift five additional feet away from the stream.

A new corrugated steel pipe (CSP) that was previously proposed to exit through the wall and discharge into Buffalo Creek, will now be shifted eastward, outside of the wall area. This will allow the pipe to outlet approximately 9 feet further away from Buffalo Creek than the original design.

Impact Changes at Site 2

Permanent impacts to Buffalo Creek reduced by 3 lf (from 18 lf to 15 lf) required for the keyed-in bank stabilization in Buffalo Creek.

Temporary impacts have increased 31 lf (from 11 lf to 42 lf). This is the result of the need to remove the 18" CMP that was going to be replaced and discharged through the wall.

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

Total Project Impacts

This Site 2 revision decreases the total permanent project impact by 3 lf (from 41 lf to 38 lf) and increases the total temporary impacts by 31 lf (from 123 lf to 154 lf (0.07 ac to 0.08 ac)).

Pursuant to the permit issued on February 11, 2020, the 18 lf of impacts at Site 2 were not considered Loss of Waters of the US and did not require mitigation. Since the impact type remains the same, NCDOT proposes no changes to the mitigation requirements for this project.

Please see enclosed copies of the Revised Stormwater Management Plan and Revised Permit Drawings (Sheet 2 of 7, Sheet 3 of 7 and Sheet 7 of 7).

Request to Remove Hellbender Condition in the 401 Permit

Condition Number 3 from the NCDWR Water Quality Certification states:

This project has the potential to impact hellbender salamanders and trout waters. No construction activities shall begin until the NCWRC makes a determination regarding moratoria. Should the NCWRC determine that a moratorium is applicable then the requirements of any moratorium(s) shall be a condition of this 401 Certification. If the NCDOT does not wish to honor the moratorium, then a written modification shall be submitted. [15A NCAC 02H .0506(b)(2) and 15A NCAC 04B.0125

Pursuant to the instructions in the condition, NCDOT requests that this commitment be excluded from the Conditions of the 401 Certification.

Based on longstanding coordination agreements with NCDOT and State and Federal Agencies, NCDOT adheres to moratorium requests for trout and anadromous fish, as well as for federally protected species listed as Threatened or Endangered. In 2019, the US Fish and Wildlife Service determined that the hellbender would not be listed as federally protected for North Carolina.

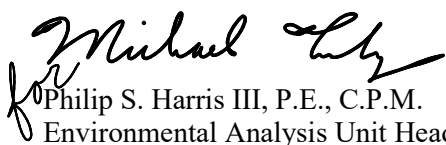
NCDOT will retain the commitment to use Design Standards for Sensitive Waters for this project. These Design Standards will ensure the most stringent of sedimentation and erosion controls and should prevent any sedimentation impact on the hellbender.

Section 404: Application is hereby made for a revision to the USACE 404 Permit as required for the above-described activities.

Section 401: We are hereby requesting a revision to the 401 Water Quality Certification from the N. C. Division of Water Resources for the above-described activities and removal of Condition Number 3.

A copy of this permit revision 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 Jeff Hemphill at (919) 707-6126.

Sincerely,


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

cc:
NCDOT Permit Application Standard Distribution List



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 67002.1.1 TIP No.: BR-0002 County(ies): Ashe Page 1 of 2

General Project Information

WBS Element:	67002.1.1	TIP Number:	BR-0002	Project Type:	bridge replacement	Date:	9/15/2019	
NCDOT Contact:	Michelle Berry, PE		Contractor / Designer:	Michelle Berry, PE (NCDOT)				
Address:	1020 Birch Ridge Dr. Raleigh, NC 27610		Address:	same				
	Phone:	919-707-6719		Phone:	same			
	Email:	mgberry@ncdot.gov		Email:	same			
City/Town:	Warrensville		County(ies):	Ashe				
River Basin(s):	New		CAMA County?	no				
Wetlands within Project Limits?	Yes							

Project Description

Project Length (lin. miles or feet):	0.322 mi.	Surrounding Land Use:	wooded/residential					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	1.6	ac.	1.2	ac.				
Typical Cross Section Description:	The proposed cross-section is 2 lane undivided, 12' wide lanes with 8' shoulder (11' in guardrail locations). The clear roadway width of the proposed bridge is 35'.			The clear roadway width is 23', while the existing bridge is 26'. The typical section is 2 lane undivided with grass shoulders.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	4100	Year:	2040	Existing:	4010	Year:	2020
General Project Narrative: (Description of Minimization of Water Quality Impacts)	Project will replace existing 6 span bridge with a 3 span 63" pre-stressed concrete girder bridge with 4' deep caps with 1.5:1 spill through abutments. The span arrangement will be 1 @ 85', 1 @ 110' and 1 @ 85'. Proposed bents will be located outside of the stream and the existing bents will be removed from the stream. Deck drains will be placed on the bridge where they do not discharge over water. One SR and one driveway will be realigned due to site distances of the proposed bridge. Construction will be staged to maintain traffic on site. Existing drainage patterns will be maintained. 2:1 roadway fill slopes are used to minimize footprint of the overall project. Ditches will be vegetated where possible. Riprap pads are used at pipe outlets to dissipate energy and prevent erosion. A retaining wall was included to prevent significant impacts to Buffalo Creek (10-2-20) which is a NCDWQ Trout Stream.							

Waterbody Information

Surface Water Body (1):	North Fork New River		NCDWR Stream Index No.:	10-2-(12)b			
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C				
	Supplemental Classification:		(ORW)				
Other Stream Classification:	None						
Impairments:							
Aquatic T&E Species?	No	Comments:					
NRTR Stream ID:				Buffer Rules in Effect:	N/A		
Project Includes Bridge Spanning Water Body?	yes	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A		
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
(If yes, provide justification in the General Project Narrative)							



North Carolina Department of Transportation
 Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
 FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 67002.1.1 **TIP No.:** BR-0002 **County(ies):** Ashe **Page** 2 **of** 2

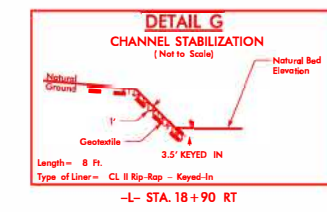
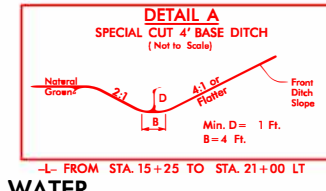
Additional Waterbody Information

Surface Water Body (2):	Buffalo Creek		NCDWR Stream Index No.:	10-2-20	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		Trout Waters (Tr)		(HQW)
Other Stream Classification:	None				
Impairments:					
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	Buffalo Creek			Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	
		(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)	
Deck Drains Discharge Over Water Body?	No				
	(If yes, provide justification in the General Project Narrative)				
Surface Water Body (3):	UT to Buffalo Creek		NCDWR Stream Index No.:	10-2-20	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		Trout Waters (Tr)		(HQW)
Other Stream Classification:	None				
Impairments:	turbidity				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	SA, SB, SC			Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	
		(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)	
Deck Drains Discharge Over Water Body?	No				
	(If yes, provide justification in the General Project Narrative)				
Surface Water Body (4):	UT/ North Fork New River		NCDWR Stream Index No.:	10-2-(12)b	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		(ORW)		
Other Stream Classification:	None				
Impairments:					
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	SD			Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	
		(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)	
Deck Drains Discharge Over Water Body?	N/A				
	(If yes, provide justification in the General Project Narrative)				

PROJECT REFERENCE NO.	SHEET NO.
BR-0002	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 2 OF 7

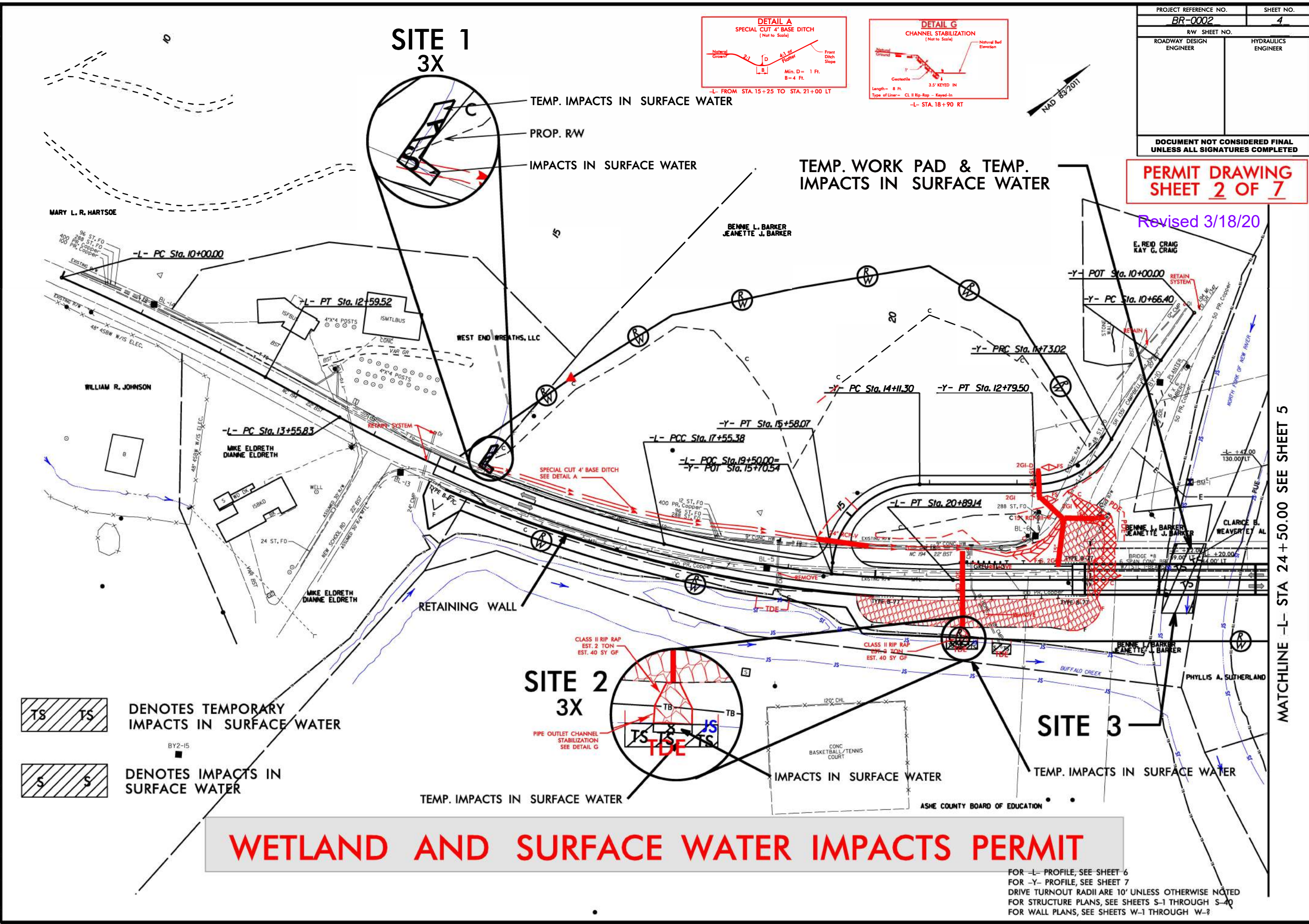
Revised 3/18/20



SITE 1
3X

TEMP. IMPACTS IN SURFACE WATER
PROP. RW
IMPACTS IN SURFACE WATER

TEMP. WORK PAD & TEMP.
IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES IMPACTS IN SURFACE WATER

SITE 2
3X

PIPE OUTLET CHANNEL STABILIZATION
SEE DETAIL G

SITE 3

WETLAND AND SURFACE WATER IMPACTS PERMIT

FOR -L- PROFILE, SEE SHEET 6
FOR -Y- PROFILE, SEE SHEET 7
DRIVE TURNOUT RADII ARE 10' UNLESS OTHERWISE NOTED
FOR STRUCTURE PLANS, SEE SHEETS S-1 THROUGH S-4
FOR WALL PLANS, SEE SHEETS W-1 THROUGH W-2

REVISIONS

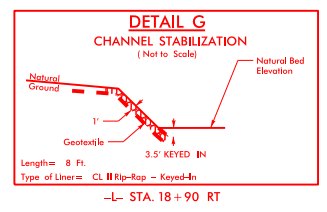
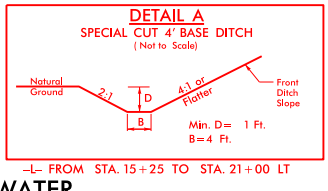
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MATCHLINE -L- STA 24+50.00 SEE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
BR-0002	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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PERMIT DRAWING
SHEET 3 OF 7

Revised 3/18/20



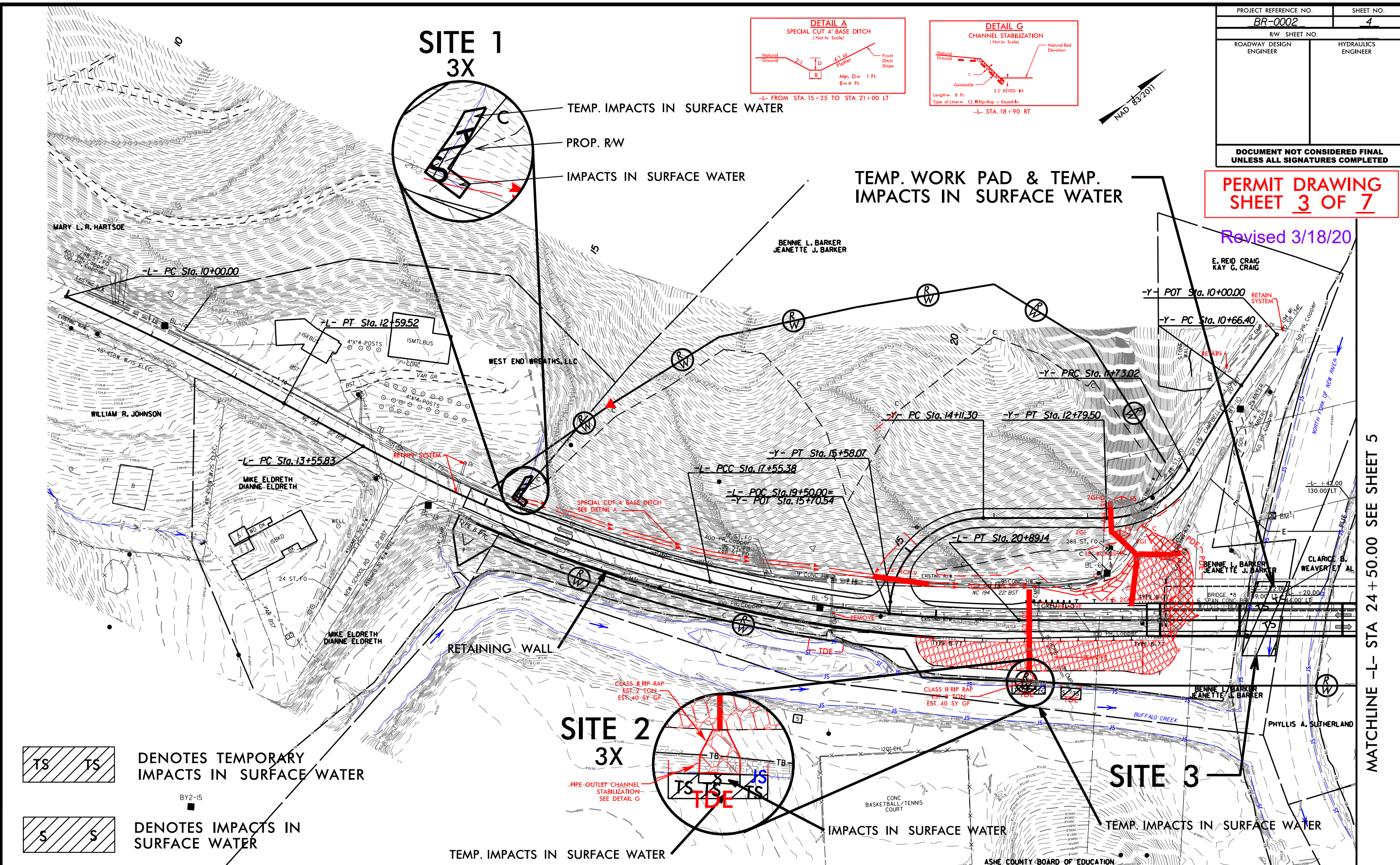
SITE 1
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TEMP. IMPACTS IN SURFACE WATER

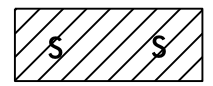
PROP. RW

IMPACTS IN SURFACE WATER

TEMP. WORK PAD & TEMP.
IMPACTS IN SURFACE WATER



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



DENOTES IMPACTS IN
SURFACE WATER

SITE 2
3X

IMPACTS IN SURFACE WATER

TEMP. IMPACTS IN SURFACE WATER

SITE 3

TEMP. IMPACTS IN SURFACE WATER

WETLAND AND SURFACE WATER IMPACTS PERMIT

FOR -L- PROFILE, SEE SHEET 6
FOR -Y- PROFILE, SEE SHEET 7
DRIVE TURNOUT RADII ARE 10' UNLESS OTHERWISE NOTED
FOR STRUCTURE PLANS, SEE SHEETS S-1 THROUGH S-4
FOR WALL PLANS, SEE SHEETS W-1 THROUGH W-2

REVISIONS

3/18/2020
mgberry
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MATCHLINE -L- STA 24+50.00 SEE SHEET 5

WETLAND PERMIT IMPACT 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+24 LT to -L- 15+41 LT	Ditch Change						< 0.01	< 0.01	22	16	
2	-L- 20+82 RT to -L- 21+55 RT	Stream Protection/ Removal of Existing						< 0.01	0.01	15	42	
3	-L- 23+26 to -L- 23+79	Temp Work Pad/Causeway							0.07		81	
4	-L- 30+58 LT to -L- 30+76 LT	Replace pipe, add headwall						< 0.01	< 0.01	1	15	
TOTALS*:								< 0.01	0.08	38	154	0

*Rounded totals are sum of actual impacts

NOTES:
Temporary Causeway should not block more than 50% of stream at any time.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
03/18/2020
Ashe County
BR-0002
67002.1.1

SHEET 7 OF 7

Revised 2013 10 24

Revised 3/18/20