

Project Submittal Interim Form



Updated September 4, 2020

*Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.*

Project Type: *

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

Pre-Filing Meeting Date Request was submitted on:

4/29/2022

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

- ☒ Yes
- ☐ No

Project Contact Information

Name:

Deanna Riffey

Who is submitting the information?

Email Address: *

driffey@ncdot.gov

Project Information

Existing ID #: *

20221000

20170001 (no dashes)

Existing Version: *

1

1

Project Name: *

Replacement of Bridge #29 on US 64 Alternate over the Tar River

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-5670

WBS#:

45625.3.1

(Applies to DOT projects only)

County (ies) *

Nash

Please upload all files that need to be submitted.

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

B-5670 Wetland_Stream_Impact_Permits.pdf 5.82MB

[Only pdf or kmz files are accepted.](#)

Describe the attachments or add comments:

The USACE pointed out that revisions were needed to allow drainage from the JS channel adjacent to the road to flow into the Tar River. The attached revised permit drawings reflect that change.

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

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, the project proponent, hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I agree that submission of this online form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the online form.



Signature: *

A rectangular box containing a handwritten signature in black ink that reads "Mack C. Riverbark, III".

Submittal Date:

8/12/2022

[Is filled in automatically once submitted.](#)

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS					
(Version 3.00; Released August 2021)							
WBS Element: 45625.1.1		TIP/Proj No: B-5670		County(ies): Nash		Page 1 of 4	
General Project Information							
WBS Element:	45625.1.1		TIP Number:	B-5670		Project Type:	Bridge Replacement
NCDOT Contact:	Kristy Alford		Contractor / Designer:		Leah Young, PE		
	Address:	1000 Birch Ridge Dr Raleigh, NC 27610			Address:	4505 Falls of Neuse Road Suite 400 Raleigh, NC 27609	
	Phone:	(919) 707-6488			Phone:	(919) 783-9214	
	Email:	kalford@ncdot.gov			Email:	Leah.Young@kci.com	
City/Town:	None		County(ies):	Nash			
River Basin(s):	Tar-Pamlico		CAMA County?	No			
Wetlands within Project Limits?	No						
Project Description							
Project Length (lin. miles or feet):	0.22		Surrounding Land Use:	Woods/rural residential			
	Proposed Project		Existing Site				
Project Built-Up Area (ac.)	1.0 ac.		0.8 ac.				
Typical Cross Section Description:	12' TRAVEL LANES WITH 6' PAVED SHOULDER AT BRIDGE; 39.25' OUT TO OUT			APPROXIMATE 12' TRAVEL LANES WITH 2' PAVED SHOULDER			
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	3200	Year:	2040	Existing:	2591	Year:
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>This project will replace Nash County Bridge #0029 and its approaches. The proposed replacement is 325' long with a clear roadway width of 36'. This structure provides 2-12' travel lanes with a 6' paved shoulder. The proposed bridge will have 1.5:1 sloping riprap abutments and 4' caps at the end bents. Placement and construction of the proposed bridge, end bents, caps, and associated roadway fill will not result in any permanent jurisdictional stream or similar environmental impacts, although there will be 0.21 ac and 104 LF of temporary stream impact for temporary causeway construction. There will be no permanent channel changes due to the bent removal and causeway construction. There will be 0.03 ac and 62 LF of permanent stream impacts due to bank stabilization. There are no wetlands present within the proposed limits of construction.</p> <p>The temporary causeway shall be constructed by others. Allowable stream impacts shown in the plans assume a temporary rock causeway using 2:1 side slopes to achieve an elevation of 145.0' for the line-back side of the bridge (labeled as phase I) and an elevation of 145.0' for the line-ahead side of the bridge (labeled as phase II). This results a 30 LF workpad to facilitate existing bridge removal and proposed bridge installation. Phase I allows for removal of existing bents #1, 2, 3, & 4 and the installation of proposed bents #1 & 2. Phase II allows for the removal of existing bents #5, 6, 7, & 8 and the installation of proposed bents #3, 4, & 5. No more than 50% of the main channel flow area may be blocked during any phase.</p> <p>There are 30' and 50' buffer zones present outside the existing stream. There are no wetland impacts within buffer zones. There is a proposed ditch within buffer zone 1 due to existing erosion and instability. Sheet flow was not feasible at this location. The proposed ditch stabilizes the flow area and does not change existing flow patterns. Please refer to the "Swales" tab for more information.</p> <p>STORMWATER CONTROLS: The proposed bridge does not require deck drains. The runoff from the bridge discharges through pipe/inlet systems on the eastern quadrant of the bridge outside of the jurisdictional stream at non-erosive velocities. In all bridge quadrants, roadway runoff is treated via vegetated roadway shoulders and existing/proposed vegetated/riprap swales prior to entering the stream. Dissipator pads were used outside buffer zones when possible to promote sheet flow to buffer zones.</p>						



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 45625.1.1		TIP/Proj No.: B-5670		County(ies): Nash		Page 2 of 4	
General Project Information							
Waterbody Information							
Surface Water Body (1):		Tar River		NCDWR Stream Index No.:		28-(24.7)b	
NCDWR Surface Water Classification for Water Body		Primary Classification:		Water Supply V (WS-V)			
		Supplemental Classification:		(NSW)			
Other Stream Classification:		None					
Impairments:		None					
Aquatic T&E Species?		No		Comments:			
NRTR Stream ID:		N/A		Buffer Rules in Effect:		Tar-Pamlico	
Project Includes Bridge Spanning Water Body?		Yes		Deck Drains Discharge Over Buffer?		No	
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)		(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)							
Waterbody Information							
Surface Water Body (2):				NCDWR Stream Index No.:			
NCDWR Surface Water Classification for Water Body		Primary Classification:					
		Supplemental Classification:					
Other Stream Classification:							
Impairments:							
Aquatic T&E Species?				Comments:			
NRTR Stream ID:				Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?			
Deck Drains Discharge Over Water Body?				(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)							
Waterbody Information							
Surface Water Body (3):				NCDWR Stream Index No.:			
NCDWR Surface Water Classification for Water Body		Primary Classification:					
		Supplemental Classification:					
Other Stream Classification:							
Impairments:							
Aquatic T&E Species?				Comments:			
NRTR Stream ID:				Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?			
Deck Drains Discharge Over Water Body?				(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)							



**Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS**

Page 3 of 4

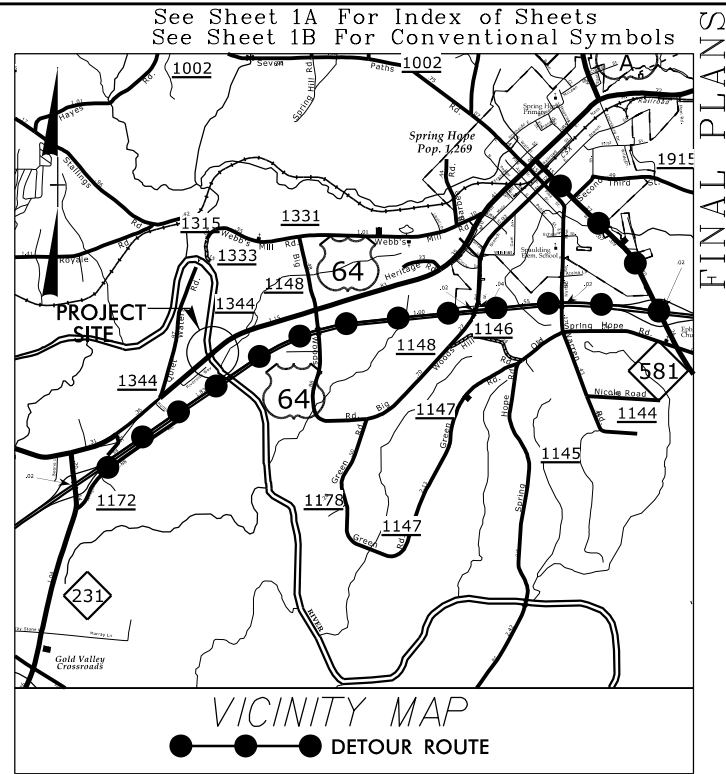
Swale

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Additional Comments

Submitted 8/12/2022

CONTRACT: 204478 TIP PROJECT: 5670



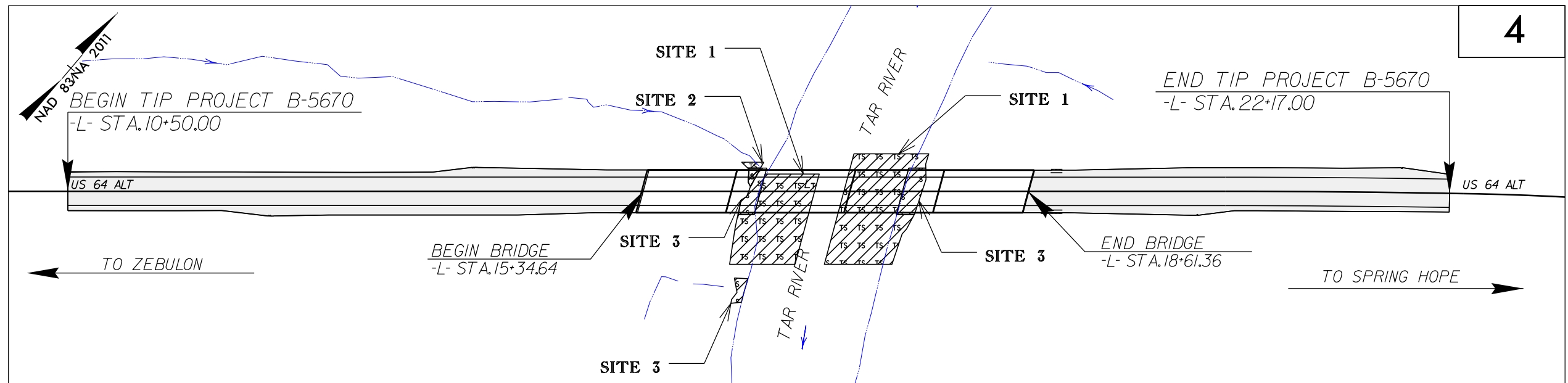
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NASH COUNTY

LOCATION: REPLACE BRIDGE NO. 29 OVER
TAR RIVER ON US 64 ALT

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

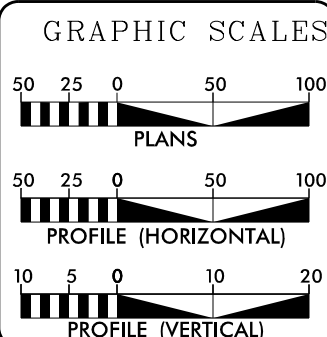
WETLAND AND STREAM
IMPACTS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5670	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
45625.1.1		P.E.	
45625.2.1		ROW/UTIL	
45625.3.1		CONSTR.	



A DESIGN EXCEPTION WILL BE REQUIRED FOR MAXIMUM GRADE.

INCOMPLETE PLANS
DO NOT USE FOR ROW ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

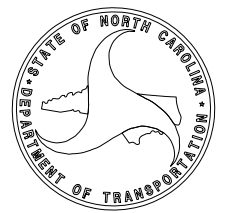


DESIGN DATA	
ADT 2022 =	2652
ADT 2042 =	3261
K =	8 %
D =	55 %
T =	6 % *
V =	60 MPH
* TTST =	2% DUAL = 4%
MAJOR COLLECTOR	
REGIONAL TIER	

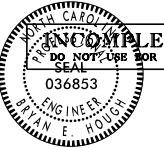
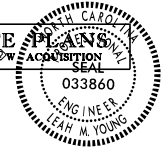

PROJECT LENGTH	
LENGTH OF ROADWAY TIP PROJECT B-5670	= .159 MILES
LENGTH OF STRUCTURE TIP PROJECT B-5670	= .062 MILES
TOTAL LENGTH OF TIP PROJECT B-5670	= .221 MILES

Prepared in the Office of: Plans Prepared For:	
KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 Fax (919) 783-9266	DIVISION OF HIGHWAYS 1000 Birch Ridge Dr. Raleigh, NC, 27610
2018 STANDARD SPECIFICATIONS	DEWAYNE L. SYKES, P.E. PROJECT ENGINEER
RIGHT OF WAY DATE: DEC. 21, 2021	BRYAN E. HOUGH, P.E. PROJECT DESIGN ENGINEER
LETTING DATE: NOV. 15, 2022	
NCDOT CONTACT:	KRISTY ALFORD, P.E. STRUCTURES MANAGEMENT UNIT

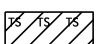
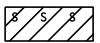
HYDRAULICS ENGINEER	
SIGNATURE:	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE:	P.E.



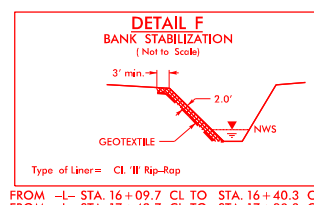
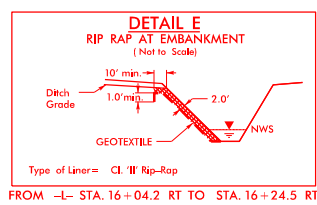
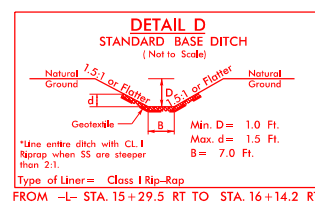
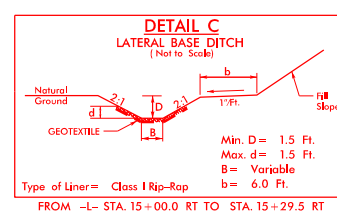
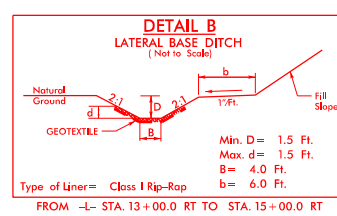
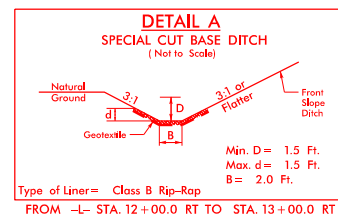
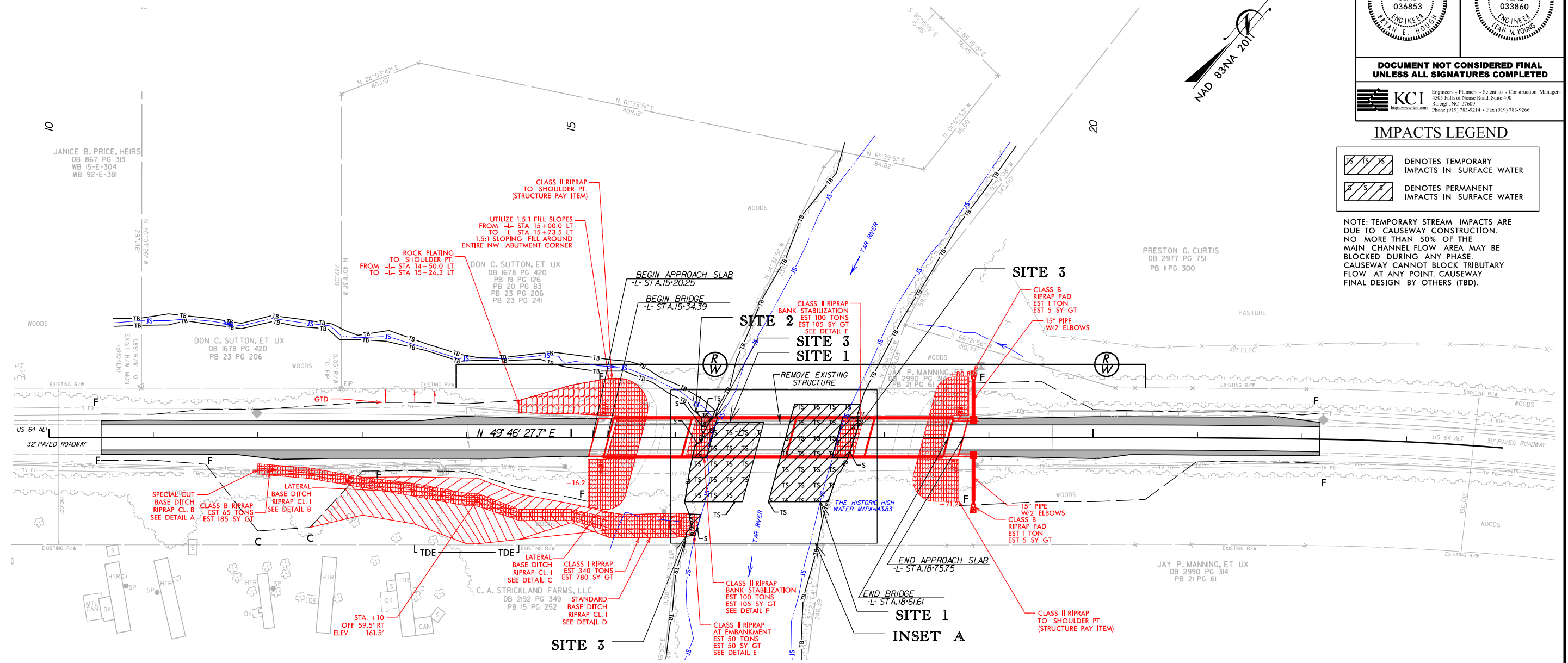
PERMIT DRAWING
SHEET 2 OF 6

PROJECT REFERENCE NO. B-5670		SHEET NO. PRM-2	
RW SHEET NO. 4		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 KCI Engineers • Planners • Scientists • Construction Managers 4305 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266			

IMPACTS LEGEND

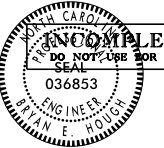
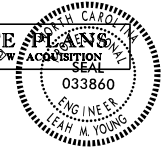

	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES PERMANENT IMPACTS IN SURFACE WATER

NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY CANNOT BLOCK TRIBUTARY FLOW AT ANY POINT. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).





FOR -L- PROFILE SEE SHEET 5
FOR STRUCTURE PLANS SEE SHEETS S-1 THRU S-7

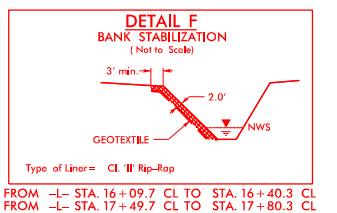
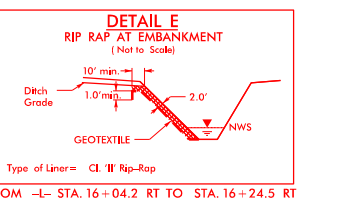
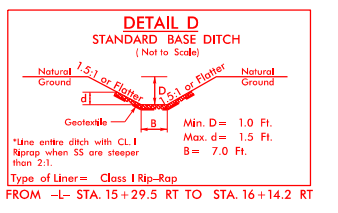
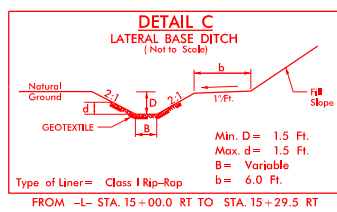
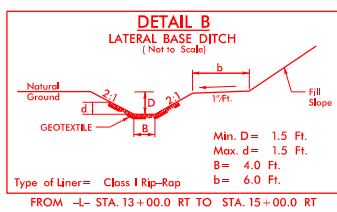
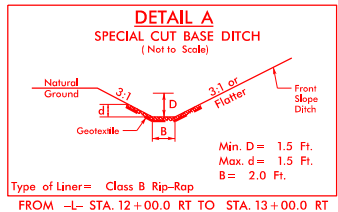
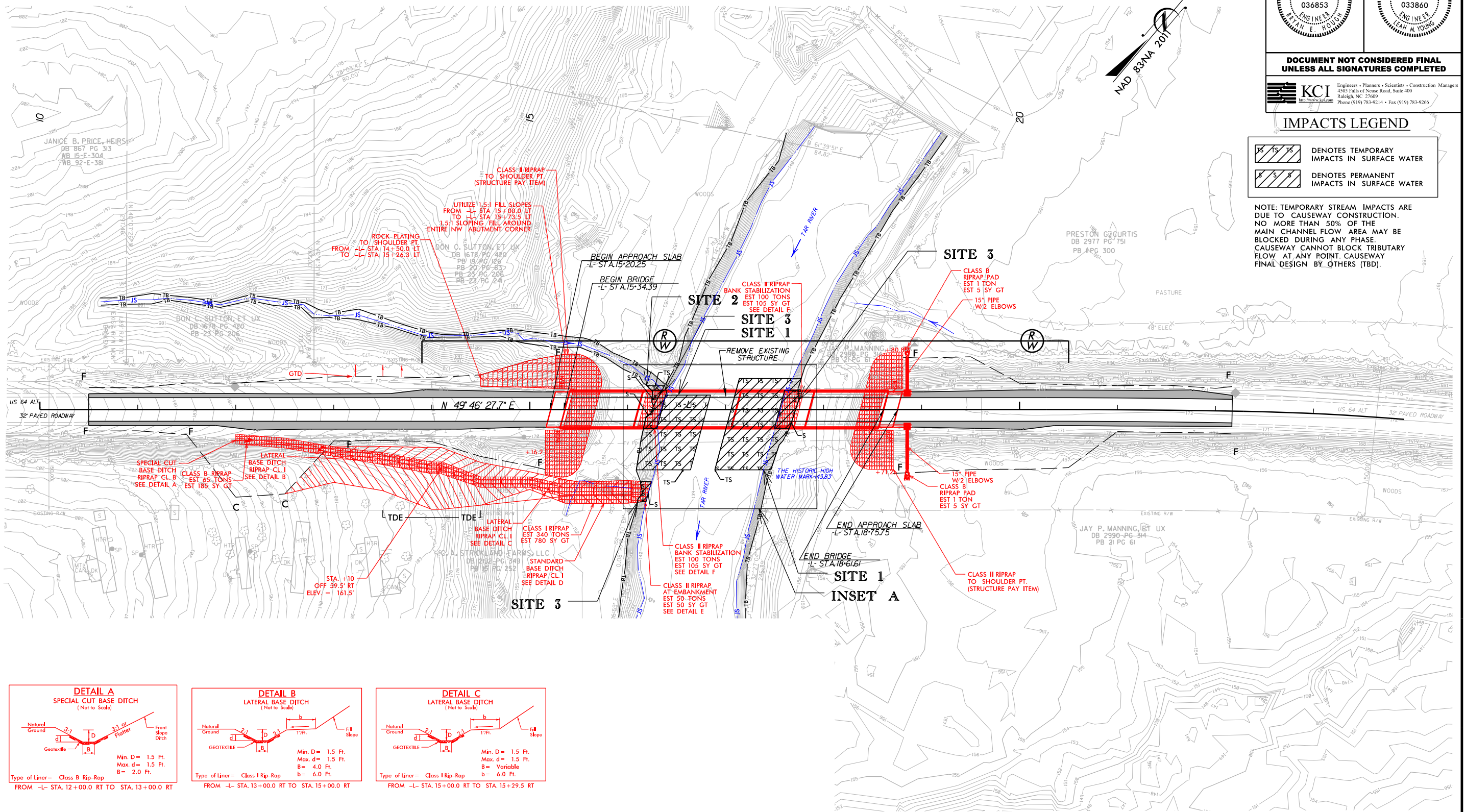
PERMIT DRAWING
SHEET 3 OF 6

PROJECT REFERENCE NO. B-5670		SHEET NO. PRM-3	
RW SHEET NO. 4		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 KCI Engineers • Planners • Scientists • Construction Managers 4305 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266			

IMPACTS LEGEND

-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES PERMANENT IMPACTS IN SURFACE WATER

NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE CAUSEWAY CANNOT BLOCK TRIBUTARY FLOW AT ANY POINT CAUSEWAY FINAL DESIGN BY OTHERS (TBD).

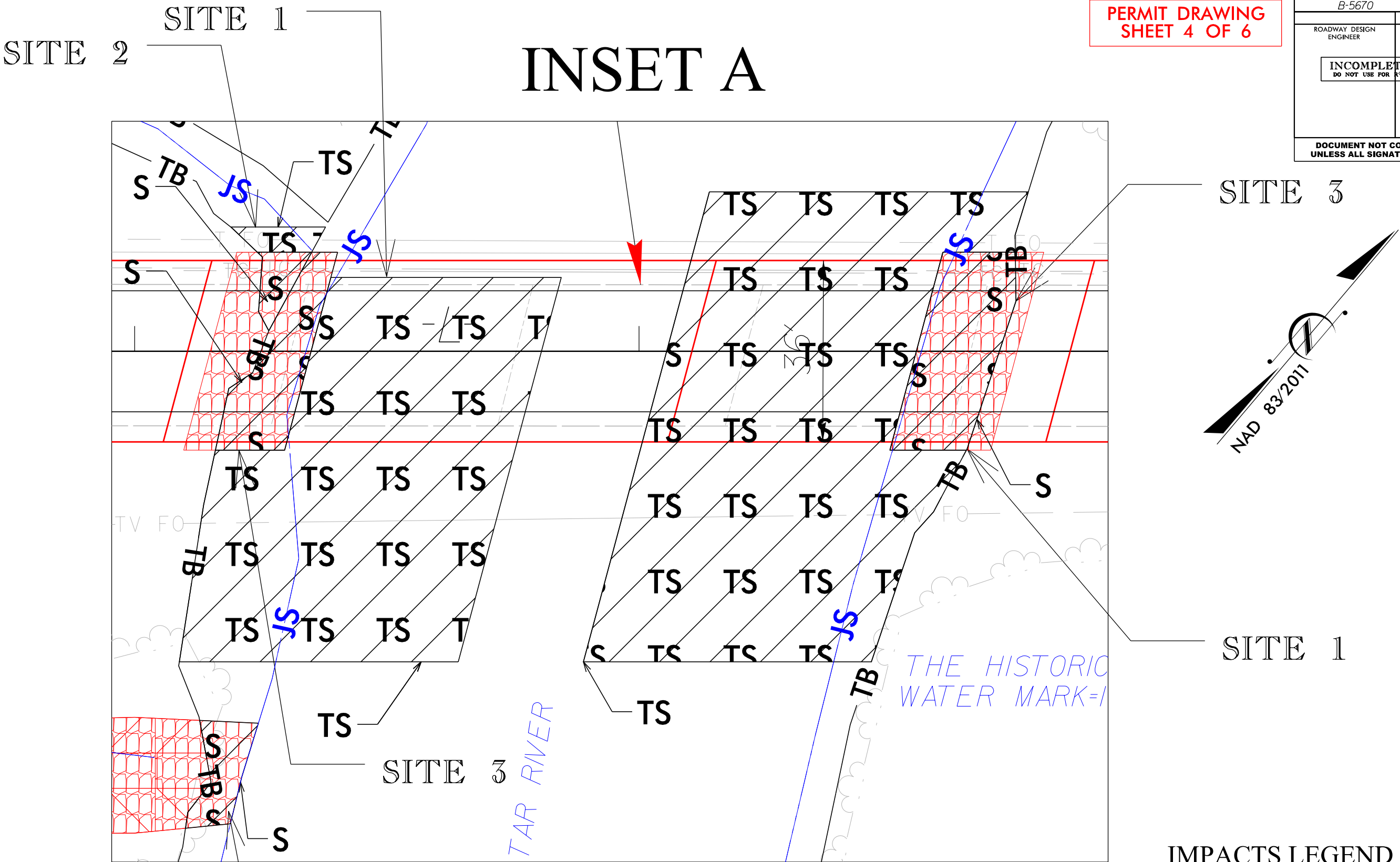


FOR -L- PROFILE SEE SHEET 5
FOR STRUCTURE PLANS SEE SHEETS S-1 THRU S-7

8/17/99
8/11/2022
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Morikawa

PERMIT DRAWING
SHEET 4 OF 6

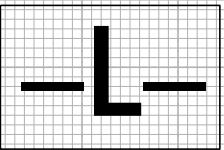
PROJECT REFERENCE NO. B-5670	SHEET NO. PRM-4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR ROW ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY CANNOT BLOCK TRIBUTARY FLOW AT ANY POINT. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).

	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES PERMANENT IMPACTS IN SURFACE WATER

5/14/99
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Mark Keelmer

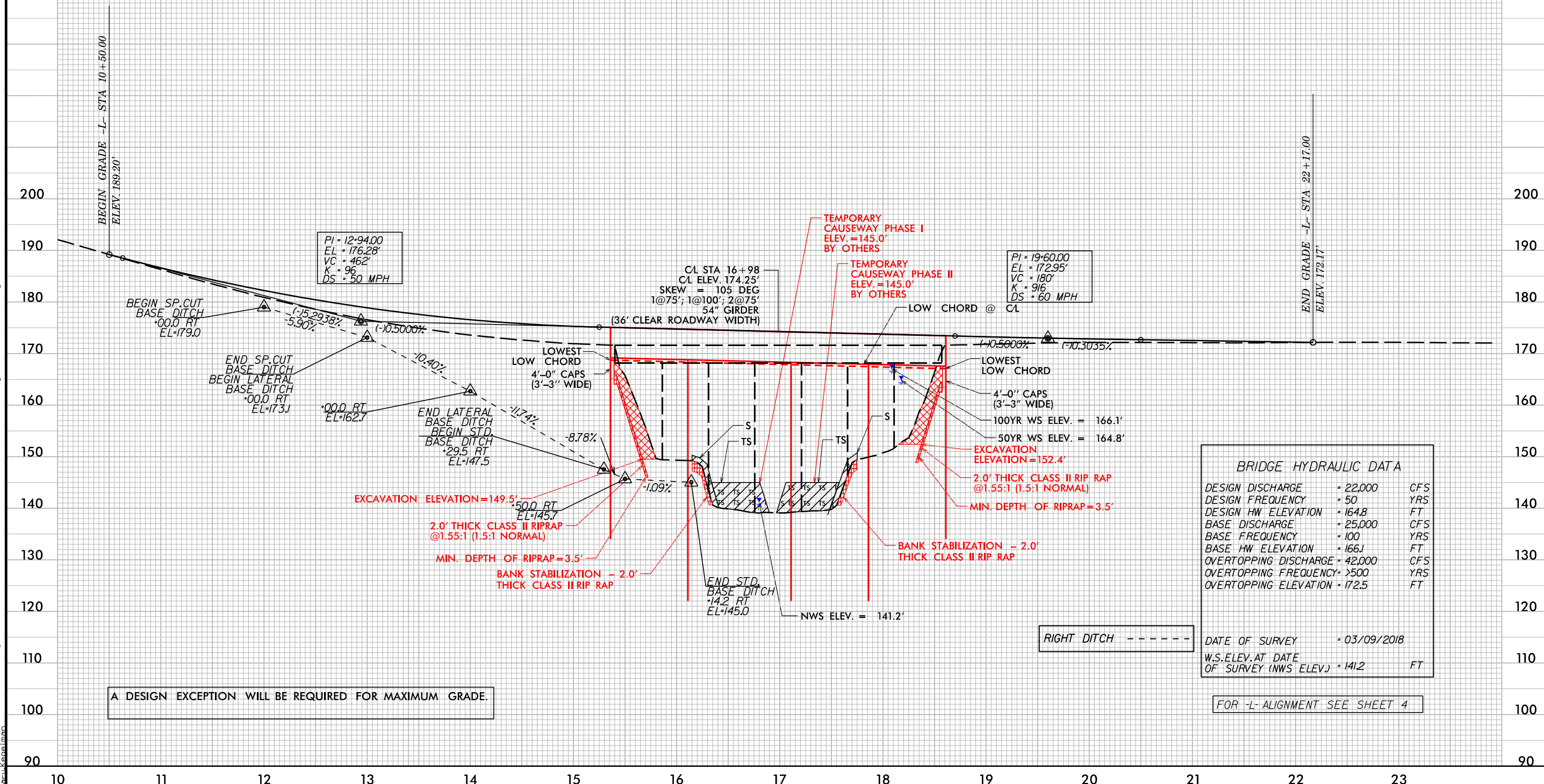


PERMIT DRAWING
SHEET 5 OF 6

PROJECT REFERENCE NO. B-5670		SHEET NO. PRM-5	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NOTE: NO MORE THAN 50% OF THE
MAIN CHANNEL FLOW AREA MAY BE
BLOCKED DURING ANY PHASE.
CAUSEWAY CANNOT BLOCK TRIBUTARY
FLOW AT ANY POINT. CAUSEWAY
FINAL DESIGN BY OTHERS (TBD).

TBM #2 - RR SPIKE IN BASE OF 30" PINE
-L- STA. 18 + 92.75, 68.36' LT
EL = 158.60'



A DESIGN EXCEPTION WILL BE REQUIRED FOR MAXIMUM GRADE.

BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 22,000	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 164.8	FT
BASE DISCHARGE	= 25,000	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 166.1	FT
OVERTOPPING DISCHARGE	= 42,000	CFS
OVERTOPPING FREQUENCY	= >500	YRS
OVERTOPPING ELEVATION	= 172.5	FT
DATE OF SURVEY	= 03/09/2018	
W.S.ELEV. AT DATE OF SURVEY (NWS ELEV.)	= 141.2	FT

FOR -L- ALIGNMENT SEE SHEET 4

WETLAND PERMIT IMPACT SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 16+09 TO 17+75	TEMPORARY CAUSEWAY CONSTRUCTION							0.21		97	
2	-L- 15+96 LT TO 16+38 LT	TEMPORARY CAUSEWAY CONSTRUCTION							< 0.01		7	
3	-L- 16+16 TO 17+75 & -L- 16+10 RT TO- 16+23 RT	BANK STABILIZATION						0.03		62		
TOTALS*:								0.03	0.21	62	104	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
August 2022
Nash
B-5670
45625.1.1
SHEET 6 OF 6