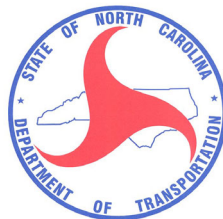


ANNUAL REPORT FOR 2021



**Br. 57 over Quioccosin Swamp Temporary Impact Site
Bertie County
TIP No. B-4916
COE Action ID: SAW-2019-00217
DWR Project #: 20190104**

3



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North Carolina Department of Transportation
August 2021

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APPENDICES

Appendix A – Site Photos and Site Maps

SUMMARY

The Quioccosin Swamp Temporary Impact Site is located in Bertie County. This is an annual report for temporary impacts associated with TIP No. B-4916 bridge replacement of Bridge No. 57 over Quioccosin Swamp on US 13. The temporary impact site was planted in March 2021.

The temporary impacts encompass approximately 0.31 acres for roadway/bridge and 0.28 acres of hand clearing in wetlands for the utility temporary impacts. The area that was impacted is being monitored for two years to ensure that it re-attains wetland jurisdictional status.

After the first year of monitoring, the Quioccosin Swamp Temporary Impact Site shows by visual observation that the temporarily impacted areas are re-attaining jurisdictional wetland status. The planted tree seedlings were surviving at the time of monitoring.

NCDOT proposes to continue monitoring at the Quioccosin Swamp Temporary Impact Sites in 2022.

1.0 INTRODUCTION

1.1 Project Description

The Quioccosin Swamp Temporary Impact Site is located in Bertie County at Bridge No. 57 over Quioccosin Swamp on US 13 (Figure 1). The temporary impacts encompass approximately 0.31 acres for roadway/bridge and 0.28 acres of hand clearing in wetlands for the utility temporary impacts. The area that was impacted is being monitored for two years to ensure that it re-attains jurisdictional wetland status.

1.2 Purpose

In order for a temporary impact site to be considered successful, a site must meet the success criteria. This report details the monitoring in 2021 at the Quioccosin Swamp Temporary Impact Site.

1.3 Project History

December 2020	Project Acceptance Date
March 2021	Wetland Reforestation Completed
June 2021	Vegetation Monitoring (Year 1)

1.4 Debit Ledger

The restoration of the Quioccosin Swamp temporary impact site was used entirely to compensate for temporary impacts on the B-4916 project. There were no wetland mitigation credits generated from the restoration of the temporary impacted area.

2.0 VEGETATION: QUIOCCOSIN SWAMP TEMPORARY IMPACT SITE (YEAR 1 MONITORING)

2.1 Success Criteria

ACOE permit:

Special conditions:

- A. All temporary fill will be removed at the completion of the project and wetlands will be restored to pre-project elevations.

NCDWR permit:

18. The post-construction removal of any temporary fill and bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species including woody species.

19. Due to the possibility that compaction and/or other site alterations might prevent the temporary wetland impact area from re-attaining jurisdictional wetland status; the permittee shall provide an update on the wetland areas that were temporarily impacted for the detour bridge at Sites 1 and 2. This update shall be conducted two growing seasons after completion of the work and shall consist of photographs and a brief report on the progress of the areas in re-attaining wetland jurisdictional status. Upon submission of this update to the NCDWR, the permittee shall schedule an agency field meeting with NCDWR to determine if the wetland areas temporarily impacted by this project have re-attained jurisdictional wetland status. If the wetland areas temporarily impacted by this project have not re-attained jurisdictional wetland status, the NCDWR shall determine if compensatory wetland mitigation is required.

2.2 Description of Species

The following wetland species were planted in the temporary impact area:

Betula nigra, River Birch

Taxodium distichum, Baldcypress

Quercus nigra, Water Oak

2.3 Results of Vegetation Monitoring

The impacted area where the temporary impacts occurred is re-attaining jurisdictional wetland status and the hardwood trees are surviving. Other species noted within the temporary impacted area included smartweed, *Juncus* sp., fennel, lizard tail, pennywort, sweetgum, *Scirpus* sp., black willow, cattail, red maple, pokeberry, woolgrass, buttonbush, green ash, overcup oak, and various grasses. The overhead powerline has been relocated back to its original location.

2.4 Conclusions

There were approximately 0.31 acre of temporary fill and 0.28 acre of hand clearing in wetlands at Quioccosin Swamp. There were no plots established on the site. By visual observation, the Quioccosin Swamp Temporary Impact Site shows that the impacted areas are re-attaining jurisdictional wetland status and the planted species are surviving.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue monitoring at the Quioccosin Swamp Temporary Impact Site in 2022



Figure 1. Vicinity Map

APPENDIX A

SITE PHOTOS & SITE MAP

Quioccosin Swamp Temporary Impact Site



PP#1



PP#2



PP#3



PP#4



PP#5



PP#6

June 2021

Quioccosin Swamp Temporary Impact Site



PP#7



PP#8

June 2021

Revised 3/5/2019

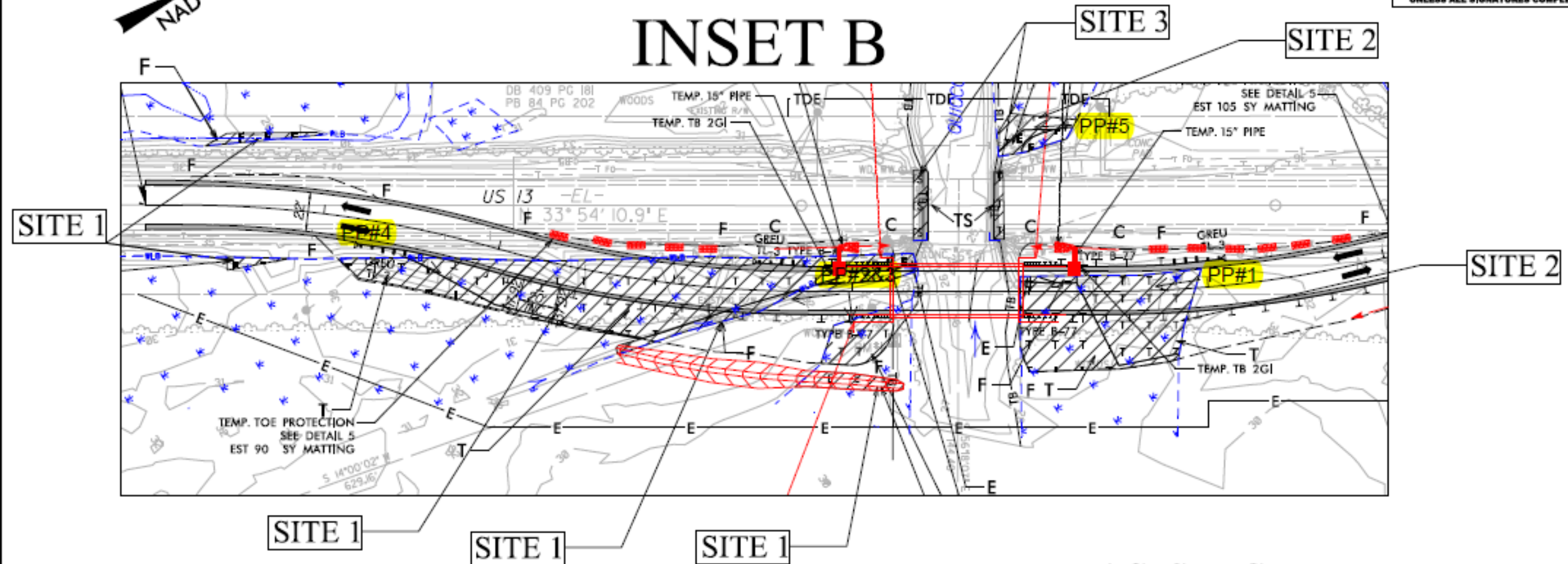
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C:\Users\jgibson\OneDrive\Documents\Projects\2019\20190319_45_85_10-4118_Hwy_45_Box_V\EMTS_Environment\3184118_1.mxd

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PERMIT DRAWING
SHEET 7 OF 24

PROJECT REFERENCE NO. B-496	SHEET NO. PRM-7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/F ACCURACY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

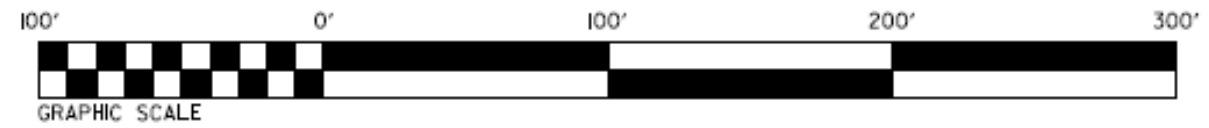
INSET B



IMPACTS LEGEND

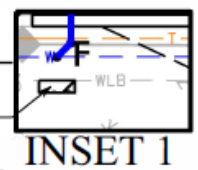
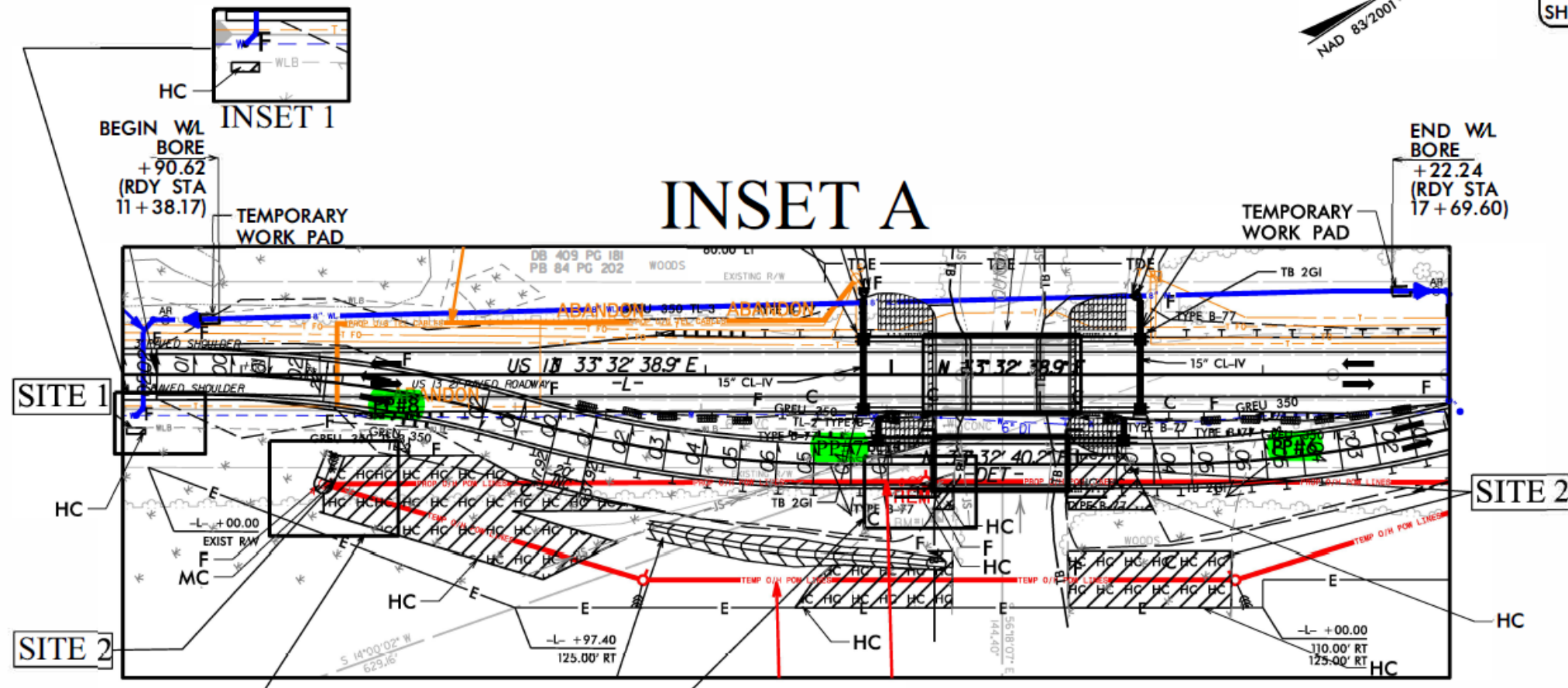
	DENOTES TEMPORARY FILL IN WETLAND		DENOTES EXCAVATION IN WETLAND
	DENOTES FILL IN WETLAND		DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER		

PP: approximate locations of photo points

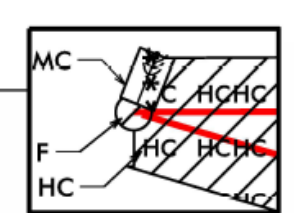


UTILITIES BY OTHERS

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET IS DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



INSET 1



INSET 2-A

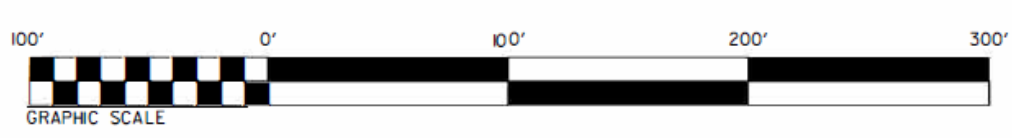


INSET 2-B

IMPACTS LEGEND

	DENOTES FILL IN WETLAND		DENOTES MECHANIZED CLEARING
	DENOTES HAND CLEARING		

PP: approximate locations of photo points



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