

ANNUAL REPORT FOR 2021



Collie Swamp Mitigation Site
Martin County
TIP #: B-5503
COE Action ID: SAW-2018-01371
NCDWR Project #: 20180865



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September 2021

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SUMMARY

The Collie Swamp Mitigation Site is located on NC 125 (Prison Camp Road, SR 1142) in Martin County. The site was planted in December 2020 (Sites 2 and 4) and May 2021 (new area near Site 3 and Sites 2 and 4 supplemental planting). This site was designed as mitigation for wetland impacts associated with TIP No. B-5503 Bridge No. 53 over the Collie Swamp on NC 125.

NCDOT will perform on-site mitigation with the restoration of 0.46 acres of wetland restoration. The restoration was completed via the removal of the old approach fill and roadway associated with the Bridge No. 53 replacement and the NC 125 re-alignment to match the adjacent wetland elevation. The wetland restoration was seeded with a wetland seed mix and planted with the appropriate wetland tree species. NCDOT is required to monitor the site for a minimum of three years or until the site is deemed successful.

After the first year of monitoring by visual observation, the Collie Swamp Mitigation Site shows that the planted species are surviving, and the restoration area is re-attaining jurisdictional wetland status.

NCDOT proposes to continue vegetation monitoring at the Collie Swamp Mitigation Site in 2022.

1.0 INTRODUCTION

1.1 Project Description

The Collie Swamp Mitigation Site is located at Bridge No. 53 over the Collie Swamp on NC 125 (Prison Camp Road, SR 1142. See Figure 1). The site consists of approximately 0.46 acres of wetland restoration for wetland impacts associated with TIP No. B-5503.

1.2 Purpose

In order for a mitigation site to be considered successful, the site must meet vegetation success criteria. This report details the vegetation monitoring in 2021 at the Collie Swamp Mitigation Site.

1.3 Project History

December 2020	Wetland Reforestation (Sites 2 and 4)
May 2021	Wetland Reforestation (Site 3 and Sites 2 & 4 Supp.)
August 2021	Vegetation Monitoring (Year 1)

1.4 Debit Ledger

The entire Collie Swamp Mitigation Site was used for the B-5503 project to compensate for unavoidable wetland impacts.

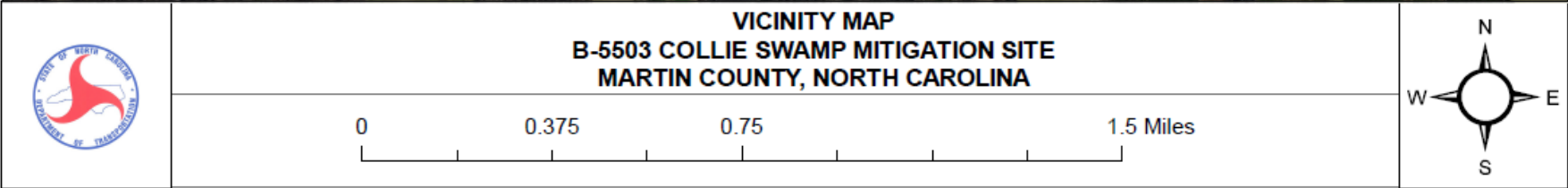
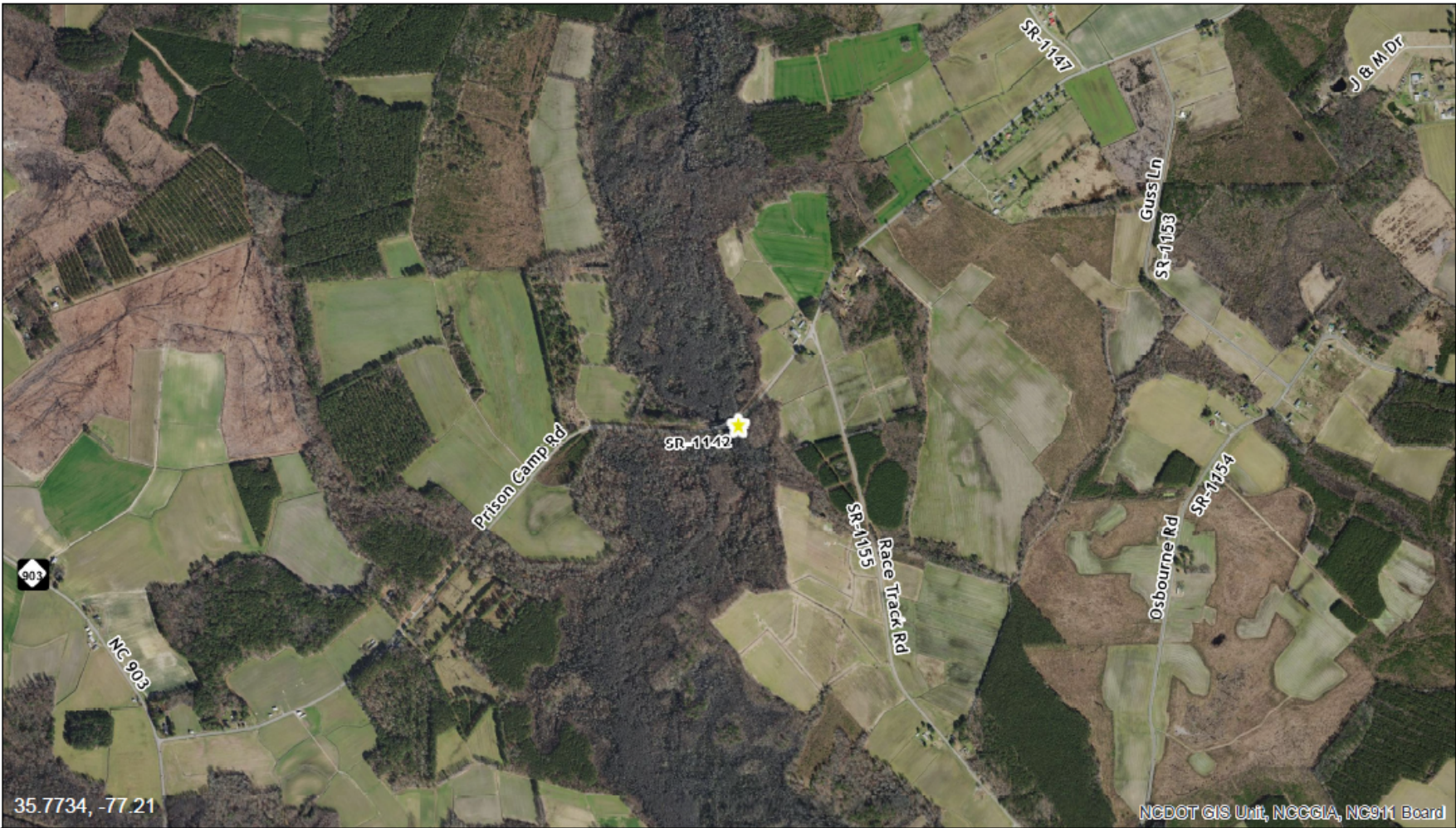


Figure 1. Vicinity Map

2.0 VEGETATION: COLLIE SWAMP MITIGATION SITE (YEAR 1 MONITORING)

2.1 Success Criteria

USACE Permit states:

Monitoring of the restored 0.46-acre area indicating the successful re-establishment of hydrophytic vegetation, hydrology, and hydric soils shall be provided to the USACE every year for 3 years post installation.

2.2 Description of Species

The following wetland species were planted in the Wetland Restoration Area:

Taxodium distichum, Baldcypress

Liriodendron tulipifera, Tulip Poplar

Betula nigra, River Birch

Platanus occidentalis, Sycamore

Fraxinus pennsylvanica, Green Ash

2.3 Results of Vegetation Monitoring

The restoration area is re-attaining jurisdictional wetland status and the planted species are surviving. Planted species noted surviving included Sycamore, Green Ash, River Birch, and Baldcypress. Other species noted within the planted area included red maple, sweetgum, cattail, soft rush, woolgrass, black willow, smartweed, *Scirpus* sp., baccharis, and various grasses. Pockets of standing water were noted throughout the site.

2.4 Conclusions

By visual observation, the Collie Swamp Mitigation Site shows that the planted species are surviving and the restoration area is re-attaining jurisdictional wetland status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue vegetation monitoring at the Collie Swamp Mitigation Site in 2022.

APPENDIX A

SITE PHOTOS & SITE MAPS

Collie Swamp Mitigation Site



Photo 1



Photo 2



Photo 3



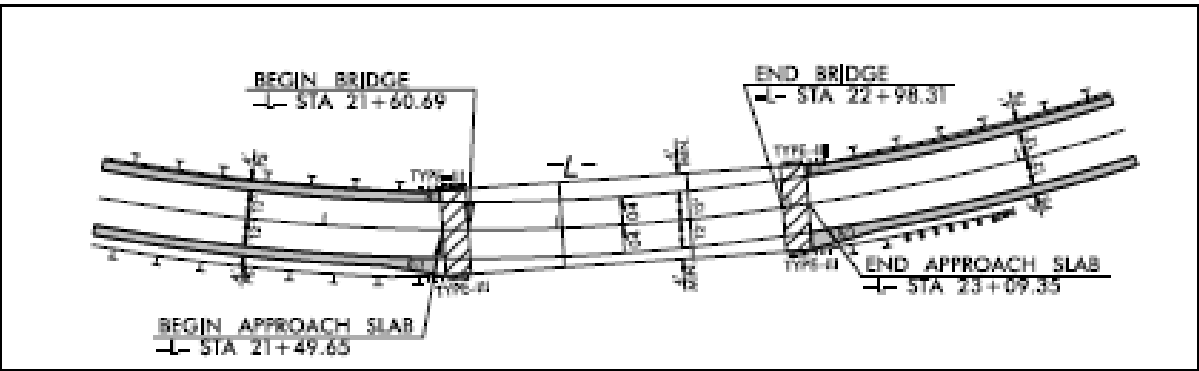
Photo 4



Photo 5
August 2021



Photo 6



Revised 12/30/2019



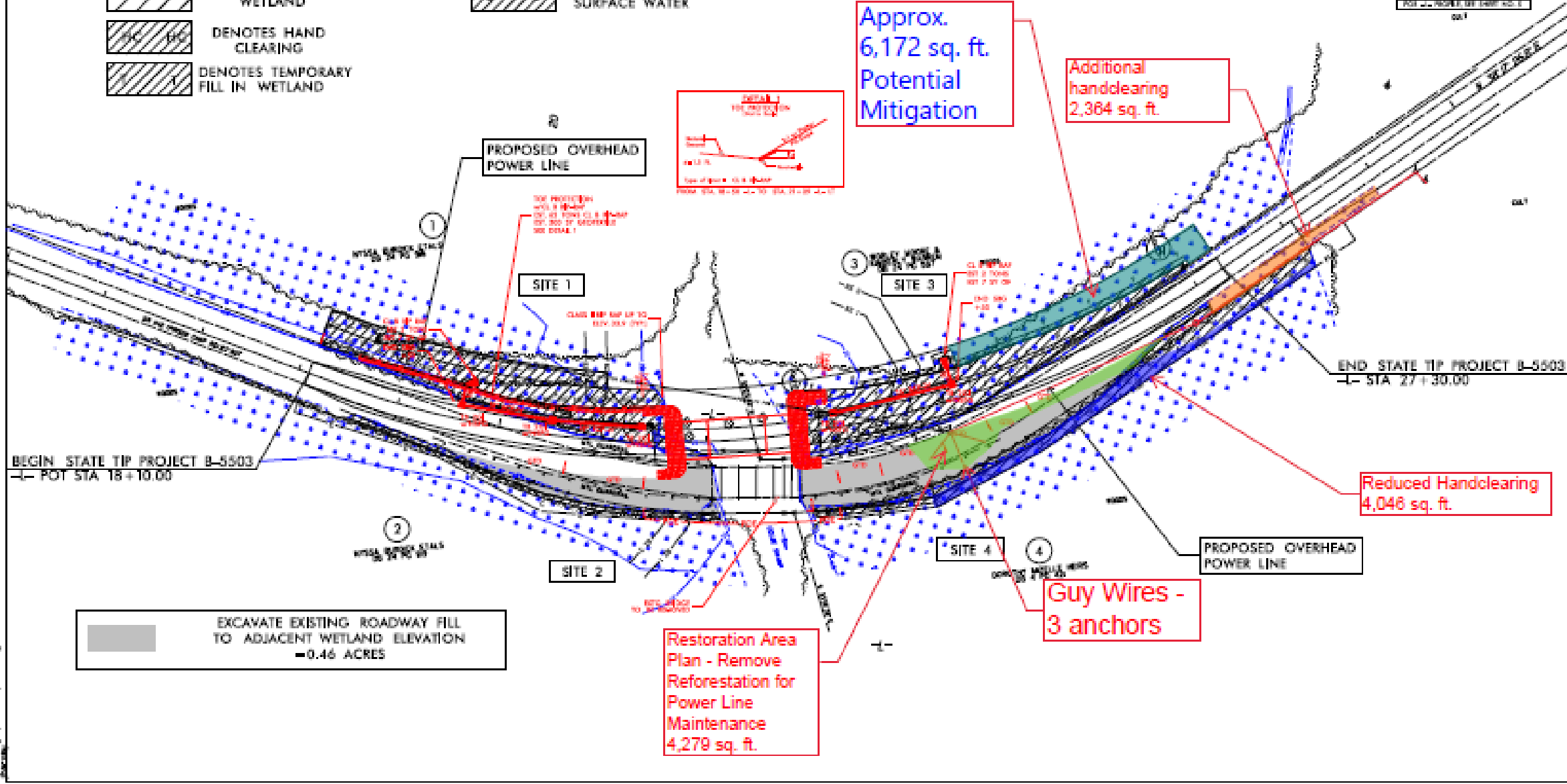
PROJECT REFERENCE NO. B-5503	SHEET NO. 4
APP. SHEET NO.	PROJECT NO.
ROADWAY DESIGN DATE	PROJECT NO. DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES TEMPORARY FILL IN WETLAND

- DENOTES IMPACTS IN SURFACE WATER



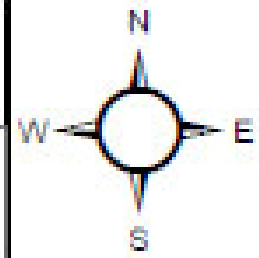
Site Map: Permit Drawing



NO361A, M3911 Board



SITE MAP
B-5503 COLLIE SWAMP MITIGATION SITE
MARTIN COUNTY, NORTH CAROLINA



Site Map: Photo Point Locations