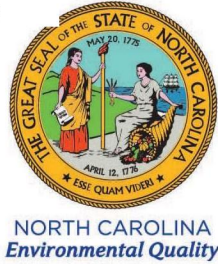


ROY COOPER
Governor
MARY PENNY KELLEY
Secretary
RICHARD E. ROGERS, JR.
Director



December 2, 2024

DWR # 20241176
Chatham County

NCDOT Division 8
Attn: Mr. Art King
121 DOT Drive
Carthage, NC 28327
Delivered via email to: acking@ncdot.gov

Subject: APPROVAL of JORDAN LAKE RIPARIAN BUFFER IMPACTS WITH ADDITIONAL CONDITIONS
NCDOT Chatham Park Way South (R-5963A) on New Location from US 15/501, NC 87 to US 64 Business and Chatham Parkway, Town of Pittsboro.

Dear Mr. King:

You have our approval for the impacts listed below for the purpose described in your application received by the Division of Water Resources (Division) September 6, 2024. These impacts are covered by the Jordan Lake Riparian Buffer Rules and the conditions listed below. Please note that you should get any other federal, state or local permits before proceeding with your project, including those required by (but not limited to) Clean Water Act Section 404 and/or 401 Authorizations, Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

The following impacts are hereby approved, provided that all of the Conditions listed below and all of the conditions of the Jordan Lake Riparian Buffer Rules are met. No other impacts are approved, including incidental impacts. [15A NCAC 02B .0267(11)].

Jordan Lake Water Supply Watershed Riparian Buffer Impacts

Site	Zone 1 Impact (sq ft)	Zone 1 Impact Mitigable (sq ft)		Zone 2 Impact (sq ft)	Zone 2 Impact Mitigable (sq ft)
1- Roadway Fill- Parallel- Stream SQ		336			3,285
2-Bridge –1 @ 88’ I-Beam- Stream SY- Allowable	12,400			7,993	
3- Bridge- Dual 120’ Girder Bridge- Allowable	11,941			9,362	
4- Roadway Fill- Parallel- Stream SDDDD		450			2,751
Totals	24,341	786		17,355	6,036

* n/a = Total for Site is less than 1/3 acre and 300 linear feet of impact, no mitigation required
Total Buffer Impact for Project: 48,518 square feet.
Total Buffer Mitigation Required: 11,412 square feet.



This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Authorization Certificate. If you change your project, you must notify the Division and you may be required to submit a new application package. If the property is sold, the new owner must be given a copy of this Authorization Certificate and is responsible for complying with all conditions. [15A NCAC 02B .0267(11)]

If you are unable to comply with any of the conditions below, you must notify the Raleigh Regional Office within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

The permittee shall report to the Raleigh Regional Office any noncompliance with the conditions of this Authorization Certificate and/or any violation of state regulated riparian buffer rules [15A NCAC 02B .0267]. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the applicant became aware of the circumstances.

Additional Conditions:

1. Mitigation for NCDOT Chatham Park Way South (R-5963A) for must be provided for the proposed impacts as specified in the tables below. The Division has received an acceptance letter from the NC Division of Mitigation Services (DMS) to meet this mitigation requirement. Until the DMS receives and clears your payment, and proof of payment has been provided to this Office, no impacts specified in this Authorization Certificate shall occur. For accounting purposes, this Authorization Certificate authorizes payment to the DMS to meet the following compensatory mitigation requirement:

	Compensatory Mitigation Required	River & Sub-basin Number
Buffers	11,412 square feet	Cape Fear (03030002)

Citation: 15A NCAC 02H .0506(c)

2. NCDOT shall submit final construction plans for the Chatham Park Way South (R-5963A) portion of this project for review and approval by DWR. The final design of Chatham Park Way shall follow the NCDOT Post-Construction Stormwater Plan and Stormwater Best Management Practices Toolbox and that all stormwater measures shall be properly inspected and maintained in accordance with NCDOT’s National Pollutant Discharge Elimination System (NPDES) stormwater permit NCS000250.

Citation: 15A NCAC 02H .0502 (a) and 15A NCAC 02H .0506 (b)(1)

3. NCDOT shall schedule and conduct a pre-construction meeting with the construction contractors, NCDOT staff, and Division staff to review the conditions and requirements of the respective certifications and permits for clarity and understanding before any impacts authorized in this Certification occur.

Citation: 15A NCAC 02H .0507 (c) and 15A NCAC 02H .0502 (e) and 15A NCAC 02H .0506 (b)(3)

This approval and its conditions are final and binding unless contested. [G.S. 143-215.5]

This Authorization Certificate can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) **within sixty (60) calendar days**. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <http://www.ncoah.com/> or by calling the OAH Clerk's Office at (919) 431-3000.

One (1) copy of the Petition must also be served to the North Carolina Department of Environmental Quality:

William F. Lane, General Counsel
Department of Environmental Quality
1601 Mail Service Center
Raleigh, NC 27699-1601

This Authorization Certificate neither grants nor affirms any property right, license, or privilege in any lands or waters, or any right of use in any waters. This Authorization Certificate does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person, nor does it create any prescriptive right or any right of priority regarding any usage of water. This Authorization Certificate shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this Authorization Certificate to possess any prescriptive or other right of priority with respect to any other consumptive user.

This Authorization shall expire when the corresponding 401 Water Quality Certification Approval DWR# 20241176 expires.

This letter completes the Division's review under the Jordan Lake Riparian Buffer Rules as described in 15A NCAC 02B.0267. Please contact Ryan Conchilla at 919-707-9111 or ryan.conchilla@deq.nc.gov if you have any questions or concerns.

Sincerely,

Signed by:

04351F033762414...
Richard E. Rogers, Director
Division of Water Resources

cc: Wille Sullivan, Kimley-Horn (via email)
Stephen Brumagin, USACE Charlotte Regulatory Field Office (via email)
Beth Harmon, Division of Mitigation Services (via email)
DWR 401 & Buffer Permitting Branch Electronic file

DIVISION DESIGN RALEIGH LET (DDRL)

RIGHT OF WAY FIELD CERTIFICATION

TIP No.

WBS Element:

County:

Description:

R-5963A

48599.2.3

Chatham

Chatham Parkway

- In connection with the above-referenced project, I certify that there were:
- 1)

No persons displaced for this project or that all individuals and families have been relocated to DSS housing, Comparable replacement housing has been made available to relocates in accordance with applicable Federal and State laws and regulations.
- 2)

The steps relative to relocation advisory assistance and payments as required by current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program have been taken, as required.
- 3)

Any necessary utility easements have been acquired for utility relocations
- 4)

Any land needed by NCDOT from any active or non-active Railroad Company has been acquired in accordance with all state and federal laws.

I further certify that one of the following has application:

- _____

1.

All necessary right of way has been acquired or the State has legal right of physical possession of that right of way,

or
- X**_____

2.

The acquisition or right of occupancy and use of a few remaining parcels is not complete, but all occupants of the residences on such parcels have had replacement housing made available to them in accordance with 49 CFR 24.204. I assure that, if the physical construction of the project proceeds, displaced persons who have not yet moved from the right of way will be protected against unnecessary inconvenience and disproportionate injury or any action coercive in nature. I believe that it will be in the best public interest to proceed with this project. The following information is provided regarding excepted parcels and will be provided in the contract documents. These parcels will require delays of entry noted as follows:

TIP/PARCEL	PROPERTY OWNER	REASON FOR DELAY REQUEST	RELO (Y/N)	DELAY OF ENTRY UNTIL
R-5963A / 001	CPF, LLC	Appraisal in review	N	August 31 2025
R-5963A / 003Z	CP South, LLC	Apprisal in review	N	August 31 2025
R-5963A / 005Z	CP South, LLC	Appraisal in review	N	August 31 2025
R-5963A / 015	Bertha Foy Mann, Et Al	Coordinating to meet with property owner	N	August 31 2025

This certification assures compliance with all applicable Federal and State laws, rules and policies.

Date: 2/19/25

BRIAN ROGERS
AREA NEGOTIATOR



~~DIVISION RIGHT OF WAY AGENT~~

Date: 02/20/2025

BRAD BASS

DocuSigned by:

85046838904011
MANAGER, RIGHT OF WAY UNIT

ACCOUNTS RECEIVABLE AGREEMENTS

REMITTANCE GUIDANCE



Initial
: I acknowledge that upon execution of this Agreement, we must submit a down payment, if required.

I also acknowledge that we may pre-pay any portion of the estimated cost noted in this Agreement, prior to final billing by the Department.

Please refer to your Agreement's PAYMENT TERMS to correctly remit any payment due to the Department.

<u>PAYMENT TERMS:</u>	<u>PAYMENT TIMING:</u>
PAYMENT UPON AGREEMENT EXECUTION	Please submit the amount of agreed upon payment via one of the below methods, <u>once you have received notice of execution of the Agreement.</u>
PAYMENT PRIOR TO LETTING (OR START OF PHASE)	You will be notified by the Project Manager when payment will be due. Please remit payment within 60 days of notification.
PAYMENT UPON BILLING	The Department will bill at the completion of the Project (or when defined in the Agreement). All payments are due within 60 days of invoicing.

NOTE: You may pre-pay any portion of an estimated cost, prior to Departmental Billing. The Department will adjust final billing to account for any pre-payments made.

LATE PAYMENTS AND INTEREST RATES:

For payments not received within 60 days, the Department must charge a statutory interest rate of prime plus one percent (1%) on all Utility Relocation Agreements. For any other Receivable Agreement, the Department may charge a late fee and/or interest.

PAYMENT METHODS

1. **SEND PAYMENT BY CHECK** OR

MAIL TO:

NCDOT – Accounts Receivable
1514 Mail Service Center
Raleigh, NC 27699-1514

INCLUDE:

- Agreement ID (10000xxxxx)
- WBS Element

2. **SEND PAYMENT VIA ACH (Automated Clearinghouse)**

Initiate ACH through your bank* and send an e-mail to:

- ✓ Shamorah Fountain - sfountain1@ncdot.gov
- ✓ Kay Lee - klee@ncdot.gov

INCLUDE:

- Agreement ID# (10000xxxxx)
- WBS Element
- Amount of Payment

**If you need NCDOT's Account information, contact Tammy Court at tcourt@ncdot.gov*

Failure to follow the above steps and remit payment per the terms in the Agreement may result in delays to project delivery. Please contact your Division Project Manager for questions regarding payment terms.

**ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
CONSTRUCTION
1000023574**

AGREEMENT OVERVIEW

NORTH CAROLINA
CHATHAM COUNTY

DATE: 2/5/2025

PARTIES TO THE AGREEMENT:

PROJECT NUMBERS:

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION

TIP #: R-5963A

WBS ELEMENTS: CON 48599.3.2

AND

CHATHAM PARK INVESTORS LLC

The purpose of this Agreement is to identify the participation in project costs, project delivery and/or maintenance, by the other party to this Agreement, as further defined in this Agreement.

SCOPE OF TIP PROJECT (“Project”): This Project consists of constructing a new roadway location for Chatham Parkway from US 15/501 south of Pittsboro to US 64 Business.

ADDITIONAL WORK: At the request of Chatham Park Investors LLC, traffic signals will be upgraded from metal strain poles to mast arms with signals; three (3) planned retaining walls will include decorative façades; decorative concrete on three (3) bridges; and dry PVC conduits for future underground power and street lighting will be included.

ESTIMATED COST OF THE ADDITIONAL WORK: \$732,260

COSTS TO OTHER PARTY: \$732,260

PAYMENT TERMS: Chatham Park Investors LLC will submit payment upon execution of agreement.

MAINTENANCE: Both the Department and Chatham Park Investors LLC

EFFECTIVE DATES OF AGREEMENT:

START: Upon Full Execution of this Agreement

END: When work is complete and all terms are met.

This Agreement is made and entered into on the last date executed below, by and between the North Carolina Department of Transportation, an agency of the State of North Carolina, hereinafter referred to as the **Department** and Chatham Park Investors LLC, hereinafter referred to as the **Developer**; and collectively referred to as the **Parties**.

**ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
CONSTRUCTION
1000023574**

The **Parties** to this Agreement, listed above, intend that this Agreement, together with all attachments, schedules, exhibits, and other documents that are incorporated into this Agreement by reference, represents the entire understanding between the **Parties** with respect to its subject matter and supersedes any previous communication or agreements that may exist.

I. WHEREAS STATEMENTS

WHEREAS, this Agreement is made under the authority granted to the **Department** by the North Carolina General Assembly under General Statutes of North Carolina (NCGS), particularly Chapter 136-66.1 and 136-66.3; and,

WHEREAS, the **Department** and the **Developer** have agreed that the limits of the **Parties** imposed by applicable law as of the date of entering this Agreement are to be used in determining the duties, responsibilities, rights, and legal obligations of the **Parties** hereto for the purposes of, and to the extent consistent with the terms and conditions set forth in, this Agreement; and,

WHEREAS, the **Developer** has requested that the **Department** perform all phases of said work or provide services; and,

WHEREAS, the **Parties** hereto wish to enter into an agreement for scoped work to be performed or provided by the **Department** (including reviews, goods, or services) with reimbursement for the costs thereof by the **Developer** as hereinafter set out.

NOW, THEREFORE, this Agreement states the promises and undertakings of each party as herein provided, and the **Parties** do hereby covenant and agree, each with the other, as follows:

II. RESPONSIBILITIES

A. DEPARTMENT

The **Department** shall be responsible for all phases of project delivery to include planning, design, right of way acquisition, utility relocation, construction and maintenance as shown in the **PROJECT DELIVERY** Provision.

B. DEVELOPER

The **Developer** shall be responsible for maintenance as shown in the **PROJECT DELIVERY** Provision and payment as shown in the **COSTS AND FUNDING** Provision.

III. PROJECT DELIVERY REQUIREMENTS

A. PLANNING, DESIGN, AND CONSTRUCTION

- i. The **Department** will be responsible for preparing the environmental and/or planning document and obtaining any environmental permits.
- ii. The **Department** will be responsible for preparing the project plans and specifications and letting the Project to construction.

- iii. The **Department** shall construct the Project in accordance with the plans and specifications for the Project. The **Department** shall administer the construction contract for said Project. All work shall be done in accordance with Departmental standards, specifications, policies, and procedures.

B. RIGHT OF WAY ACQUISITION

The **Department** will be responsible for acquiring any needed right of way required for the Project in accordance with the policies and procedures set forth in the North Carolina Right of Way Manual.

C. MUNICIPAL UTILITY RELOCATIONS

Responsibilities

It is understood that there are no municipally-owned water and sewer lines to be adjusted or relocated at this time. If during the project it becomes necessary to adjust or relocate municipally-owned water and/or sewer lines, a separate Utility Agreement will be prepared at the appropriate time.

D. MAINTENANCE

Upon completion of the Project:

- i. Should a mast arm need to be replaced, the **Department** will attempt to acquire a similar colored metal pole with mast arms to replace it. The **Developer** will be responsible for the cost difference between galvanized pole with strain wires and colored metal pole with mast arms. If colored metal pole with mast arms is not readily available, **Department** will use galvanized pole/pedestal with strain wires for the replacement as restoring the operation of the signal is priority. Should the **Developer** desire to replace a galvanized pole/pedestal with strain wires, they shall be responsible for material and installation costs.
- ii. The **Department** shall be responsible for all traffic operating controls and devices which shall be established, enforced, and installed and maintained in accordance with the North Carolina General Statutes, the latest edition of the Manual on Uniform Traffic Control Devices for Streets and Highways, the latest edition of the "Policy on Street and Driveway Access to North Carolina Highway," and department criteria.
- iii. The roadway improvements that are within state-owned right of way shall be considered a part of the State Highway System and shall be owned and maintained by the **Department**. The **Department** will also maintain all retaining walls.

IV. COSTS AND FUNDING

A. ADDITIONAL WORK

At the request of the **Developer** and in accordance with the **Department's** Pedestrian Policy Guidelines or the Complete Streets Guidelines, the **Department** shall include provisions in its construction contract for the construction of pedestrian facilities and/or other additional work as indicated in the Table below. Said work shall be performed in accordance with the **Department's** policies, procedures, standards, and specifications, and the provisions of this Agreement.

Description	Cost to Developer
Upgrade signal from metal strain poles to mast arms with color (2)	\$ 150,000
Retaining Wall #1	\$ 37,500
Retaining Wall #2	\$ 37,500
Retaining Wall #3	\$ 30,500
Bridge Upgrades – Decorative Concrete	\$ 300,000
2", 4", & 6" Dry PVC Conduits (Underground Power & Streetlights)	\$ 176,760
Total Estimated Cost to Developer	\$ 732,260

The estimated Developer's share of the additional work is \$732,260. The **Parties** understand that this is an estimated cost and subject to change.

B. PROJECT COSTS

The **Developer** has agreed to participate in the Project costs as follows:

- i. The estimated cost of the additional work is \$732,260. The **Developer** shall participate in 100% of actual costs. The **Department** will participate in 0% of actual costs.
- ii. The **Department** may consult with the **Developer** on changes to cost estimates prior to construction, or changes to costs during construction. Consultation between the **Department** and the **Developer** is offered as a courtesy to apprise the **Developer** of potential cost increases and to allow appropriate budgeting. Failure of the **Department** to notify the **Developer** of cost increases does not affect the payment terms of the agreement.

C. PAYMENT BY THE DEVELOPER

- i. Based on the estimated cost of \$732,260 the **Developer** shall submit payment for \$732,260 to the **Department's** Fiscal Section upon full execution of this Agreement in accordance with the attached "Remittance Guidance".

- ii. Upon completion of the Project, if actual costs exceed the amount of the down payment, the **Developer** shall reimburse the **Department** any underpayment within sixty (60) days of invoicing by the **Department**. The **Department** will charge a late payment penalty and interest on any unpaid balance due in accordance with G. S. 147-86.23. If the actual cost of the work is less than \$732,260, the **Department** will reimburse the **Developer** any overpayment.

V. STANDARD PROVISIONS

A. AGREEMENT MODIFICATIONS

Any modification to scope, funding, responsibilities, or time frame will be agreed upon by all **Parties** by means of a written Supplemental Agreement.

B. ASSIGNMENT OF RESPONSIBILITIES

The **Department** must approve any assignment or transfer of the responsibilities of the **Developer** set forth in this Agreement to other parties or entities.

C. AGREEMENT FOR IDENTIFIED PARTIES ONLY

This Agreement is solely for the benefit of the identified **Parties** to the Agreement and is not intended to give any rights, claims, or benefits to third parties or to the public at large.

D. OTHER AGREEMENTS

The **Developer** is solely responsible for all agreements, contracts, and work orders entered into or issued by the **Developer** to meet the terms of this Agreement. The **Department** is not responsible for any expenses or obligations incurred by the **Developer** for the terms of this Agreement except those specifically eligible for the funds and obligations as approved by the **Department** under the terms of this Agreement.

E. TITLE VI

The other party to this Agreement shall comply with Title VI of the Civil Rights Act of 1964 (Title 49 CFR, Subtitle A, Part 21) and related nondiscrimination authorities. Title VI and related authorities prohibit discrimination on the basis of race, color, national origin, disability, gender, and age in all programs or activities of any recipient of Federal assistance.

F. FACSIMILE

A copy or facsimile copy of the signature of any party shall be deemed an original with each fully executed copy of the Agreement as binding as an original, and the **Parties** agree that this Agreement can be executed in counterparts, as duplicate originals, with facsimile signatures sufficient to evidence an agreement to be bound by the terms of the Agreement.

G. AUTHORIZATION TO EXECUTE

The **Parties** hereby acknowledge that the individual executing this Agreement has read this Agreement, conferred with legal counsel, fully understands its contents, and is authorized to execute this Agreement and to bind the respective **Parties** to the terms contained herein.

H. DEBARMENT POLICY

It is the policy of the **Department** not to enter into any agreement with parties that have been debarred by any government agency (Federal or State). By execution of this agreement, the **Developer** certifies that neither it nor its agents or contractors are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal or State Agency or Department and that it will not enter into agreements with any entity that is debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction.

I. INDEMNIFICATION

To the extent authorized by state and federal claims statutes, the **Developer** shall be responsible for its actions under the terms of this agreement and save harmless the FHWA (if applicable), the **Department**, and the State of North Carolina, their respective officers, directors, principals, employees, agents, successors, and assigns from and against any and all claim for payment, damages and/or liabilities of any nature, asserted against the **Department** in connection with the **Developer's** negligence and/or responsibilities under the terms of this Agreement. The **Department** shall not be liable and shall be held harmless from any and all third-party claims that might arise on account of the **Developer's** negligence and/or responsibilities under the terms of this agreement.

J. AVAILABILITY OF FUNDS

All terms and conditions of this Agreement are dependent upon, and, subject to the allocation of funds for the purpose set forth in the Agreement and the Agreement shall automatically terminate if funds cease to be available.

K. DOCUSIGN

The **Department** and **Developer** acknowledge and agree that the electronic signature application DocuSign may be used, at the sole election of the **Department** or the **Developer**, to execute this Agreement. By selecting "I Agree", "I Accept", or other similar item, button, or icon via use of a keypad, mouse, or other device, as part of the DocuSign application, the **Department** and **Developer** consent to be legally bound by the terms and conditions of Agreement and that such act constitutes **Department's** signature as if actually signed by the **Department** in writing or the **Developer's** signature as if actually signed by the **Developer** in writing. The **Department** and **Developer** also agree that no certification authority or other third-party verification is necessary to validate its electronic signature and that the lack of such certification or third-party verification will not in any way affect the enforceability of its electronic signature. The **Department** and **Developer** acknowledge and agree that delivery of a copy of this Agreement or any other document contemplated hereby through the DocuSign application, will have the same effect as physical delivery of the paper document bearing an original written signature.

L. GIFT BAN

By Executive Order 24, issued by Governor Perdue, and NCGS 133-32, it is unlawful for any vendor or contractor (i.e. architect, bidder, contractor, construction manager, design professional, engineer, landlord, offeror, seller, subcontractor, supplier, or vendor), to make gifts or to give favors to any State employee of the Governor's Cabinet Agencies (i.e. Administration, Adult Corrections, Commerce, Environmental Quality, Health and Human Services, Information Technology, Military and Veterans Affairs, Natural and Cultural Resources, Public Safety, Revenue, Transportation, and the Office of the Governor).

**ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
CONSTRUCTION
1000023574**

SIGNATURE PAGE

IN WITNESS WHEREOF, this Agreement has been executed the day and year heretofore set out, on the part of the **Department** and the **Developer** by authority duly given.

(DOCUSIGN ONLY)

Signed by:
Authorized Signer: Tim Smith
28D2CF075C10423...
Print Name: Tim Smith
Title: vice president
Date Signed: 02/05/2025

If applicable, this Agreement has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act:

CHATHAM PARK INVESTORS LLC

FED TAX ID NO: 20-1961090

REMITTANCE ADDRESS:

105 Weston Estates Way

Cary, NC 27513

DocuSigned by:
Finance Officer: Glenn Russell
322ED6B3455849A...
Print Name: Glenn Russell
Date Signed: 02/05/2025

DEPARTMENT OF TRANSPORTATION

DocuSigned by:
BY: Lamar Sylvester
EF11EAF2524D443...
TITLE: Chief Engineer
DATE: 02/10/2025

APPROVED BY BOARD OF TRANSPORTATION ITEM O: 2/6/2025 (DATE)

Initial
RS

SIGNATURE PAGE

IN WITNESS WHEREOF, this Agreement has been executed the day and year heretofore set out, on the part of the **Department** and the **Developer** by authority duly given.

(INK SIGNATURES ONLY)

ATTEST: _____ Authorized Signer: _____

BY: _____ Print Name: _____

TITLE: _____ Title: _____

Date Signed: _____

If applicable, this Agreement has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act:

CHATHAM PARK INVESTORS LLC

FED TAX ID NO: _____ Finance Officer: _____

REMITTANCE ADDRESS: _____ Print Name: _____

_____ Date Signed: _____

DEPARTMENT OF TRANSPORTATION (DocuSign)

BY: _____

TITLE: _____

DATE: _____

APPROVED BY BOARD OF TRANSPORTATION ITEM O: _____ (DATE)

ACCOUNTS RECEIVABLE AGREEMENTS

REMITTANCE GUIDANCE



Initial

[Signature]

I acknowledge that upon execution of this Agreement, we must submit a down payment, if required.

I also acknowledge that we may pre-pay any portion of the estimated cost noted in this Agreement, prior to final billing by the Department.

Please refer to your Agreement's PAYMENT TERMS to correctly remit any payment due to the Department.

<u>PAYMENT TERMS:</u>	<u>PAYMENT TIMING:</u>
PAYMENT UPON AGREEMENT EXECUTION	Please submit the amount of agreed upon payment via one of the below methods, <u>once you have received notice of execution of the Agreement.</u>
PAYMENT PRIOR TO LETTING (OR START OF PHASE)	You will be notified by the Project Manager when payment will be due. Please remit payment within 60 days of notification.
PAYMENT UPON BILLING	The Department will bill at the completion of the Project (or when defined in the Agreement). All payments are due within 60 days of invoicing.

NOTE: You may pre-pay any portion of an estimated cost, prior to Departmental Billing. The Department will adjust final billing to account for any pre-payments made.

LATE PAYMENTS AND INTEREST RATES:

For payments not received within 60 days, the Department must charge a statutory interest rate of prime plus one percent (1%) on all Utility Relocation Agreements. For any other Receivable Agreement, the Department may charge a late fee and/or interest.

PAYMENT METHODS

1. **SEND PAYMENT BY CHECK** OR

MAIL TO:

NCDOT – Accounts Receivable
1514 Mail Service Center
Raleigh, NC 27699-1514

INCLUDE:

- Agreement ID (10000xxxxx)
- WBS Element

2. **SEND PAYMENT VIA ACH** (Automated Clearinghouse)

Initiate ACH through your bank* and send an e-mail to:

- ✓ Shamorah Fountain - sfountain1@ncdot.gov
- ✓ Kay Lee - klee@ncdot.gov

INCLUDE:

- Agreement ID# (10000xxxxx)
- WBS Element
- Amount of Payment

**If you need NCDOT's Account information, contact Tammy Court at tcourt@ncdot.gov*

Failure to follow the above steps and remit payment per the terms in the Agreement may result in delays to project delivery. Please contact your Division Project Manager for questions regarding payment terms.

ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
PRE-ENGINEERING AND CONSTRUCTION
1000023775
1000024306

AGREEMENT OVERVIEW

NORTH CAROLINA
CHATHAM COUNTY

DATE: 2/5/2025

PARTIES TO THE AGREEMENT:

PROJECT NUMBERS:

NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION

TIP #: R-5963A

AND

WBS ELEMENTS: PE 48599.1.2
CON 48599.3.2

CHATHAM PARK INVESTORS LLC

The purpose of this Agreement is to identify the participation in project costs, project delivery and/or maintenance, by the other party to this Agreement, as further defined in this Agreement.

SCOPE OF TIP PROJECT (“Project”): This Project consists of constructing a new roadway location for Chatham Parkway from US 15/501 south of Pittsboro to US 64 Business.

ADDITIONAL WORK: At the request of Chatham Park Investors LLC, the Department will include utility design and construction of a 12" waterline and appurtenances, and a 24" sanitary sewer casing.

ESTIMATED COST OF THE ADDITIONAL WORK: \$ 1,621,026.56

ESTIMATED COST TO OTHER PARTY (PE): \$ 40,026.56

ESTIMATED COSTS TO OTHER PARTY (CON): \$ 1,581,000.00

DEPARTMENT’S FUNDING: \$0

PAYMENT TERMS: Chatham Park Investors LLC will submit payment upon execution of agreement.

MAINTENANCE: Chatham Park Investors LLC

EFFECTIVE DATES OF AGREEMENT:

START: Upon Full Execution of this Agreement

END: When work is complete and all terms are met.

This Agreement is made and entered into on the last date executed below, by and between the North Carolina Department of Transportation, an agency of the State of North Carolina, hereinafter referred to as the **Department** and the Chatham Park Investors LLC, hereinafter referred to as the **Developer**; and collectively referred to as the **Parties**.

ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
PRE-ENGINEERING AND CONSTRUCTION
1000023775
1000024306

The **Parties** to this Agreement, listed above, intend that this Agreement, together with all attachments, schedules, exhibits, and other documents that are incorporated into this Agreement by reference, represents the entire understanding between the **Parties** with respect to its subject matter and supersedes any previous communication or agreements that may exist.

I. WHEREAS STATEMENTS

WHEREAS, this Agreement is made under the authority granted to the **Department** by the North Carolina General Assembly under General Statutes of North Carolina (NCGS), particularly Chapter 136-66.1 and 136-66.3; and,

WHEREAS, the **Department** and the **Developer** have agreed that the limits of the **Parties** imposed by applicable law as of the date of entering this Agreement are to be used in determining the duties, responsibilities, rights, and legal obligations of the **Parties** hereto for the purposes of, and to the extent consistent with the terms and conditions set forth in, this Agreement; and,

WHEREAS, the **Developer** has requested that the **Department** perform all phases of said work or provide services; and,

WHEREAS, the **Parties** hereto wish to enter into an agreement for scoped work to be performed or provided by the **Department** (including reviews, goods, or services) with reimbursement for the costs thereof by the **Developer** as hereinafter set out.

NOW, THEREFORE, this Agreement states the promises and undertakings of each party as herein provided, and the **Parties** do hereby covenant and agree, each with the other, as follows:

II. RESPONSIBILITIES

A. DEPARTMENT

The **Department** shall be responsible for all phases of project delivery to include planning, design, right of way acquisition, utility relocation, and construction as shown in the **PROJECT DELIVERY** Provision.

B. DEVELOPER

The **Developer** shall be responsible for maintenance as shown in the **PROJECT DELIVERY** Provision and payment as shown in the **COSTS AND FUNDING** Provision.

III. PROJECT DELIVERY REQUIREMENTS

A. PRELIMINARY ENGINEERING

The **Department** will prepare plans for the additional work requested by the **Developer**. The **Department** will be responsible for entering into any contracts or agreements with professional engineering firms (PEFs) to perform said planning and design. All work shall be performed in accordance with the **Department's** policies, procedures, standards, and specifications, and the provisions of this Agreement.

A. PLANNING, DESIGN, AND CONSTRUCTION

- i. The **Department** will be responsible for preparing the environmental and/or planning document and obtaining any environmental permits.
- ii. The **Department** will be responsible for preparing the project plans and specifications and letting the Project to construction.
- iii. The **Department** shall construct the Project in accordance with the plans and specifications for the Project. The **Department** shall administer the construction contract for said Project. All work shall be done in accordance with Departmental standards, specifications, policies, and procedures.

B. RIGHT OF WAY ACQUISITION

The **Department** will be responsible for acquiring any needed right of way required for the Project in accordance with the policies and procedures set forth in the North Carolina Right of Way Manual.

C. MUNICIPAL UTILITY RELOCATIONS

Responsibilities

It is understood that there are no municipally-owned water and sewer lines to be adjusted or relocated at this time. If during the project it becomes necessary to adjust or relocate municipally-owned water and/or sewer lines, a separate Utility Agreement will be prepared at the appropriate time.

D. MAINTENANCE

Upon completion of the Project:

- i. The **Developer** shall be responsible for entering into an agreement to transfer the maintenance of the waterline, appurtenances, and sanitary sewer casing to the applicable municipal authority, utility company, or other appropriate person or entity.
- ii. The **Department** shall be responsible for all traffic operating controls and devices which shall be established, enforced, and installed and maintained in accordance with the North Carolina General Statutes, the latest edition of the Manual on Uniform Traffic Control Devices for Streets and Highways, the latest edition of the "Policy on Street and Driveway Access to North Carolina Highway," and department criteria.
- iii. The roadway improvements that are within state-owned right of way shall be considered a part of the State Highway System and shall be owned and maintained by the **Department**.

IV. COSTS AND FUNDING

A. ADDITIONAL WORK

At the request of the **Developer** and in accordance with the **Department's** Pedestrian Policy Guidelines or the Complete Streets Guidelines, the **Department** shall include provisions in its construction contract for the construction of pedestrian facilities and/or other additional work as indicated in the Table below. Said work shall be performed in accordance with the **Department's** policies, procedures, standards, and specifications, and the provisions of this Agreement.

Description	Cost to Developer
Design of 12" Waterline & Appurtenances and 24" Sanitary Sewer Casing	\$ 40,026.56
Construction of 12" Waterline and Appurtenances	\$ 1,500,000.00
Construction of 24" Sanitary Sewer Casing	\$ 81,000
Total Estimated Cost to Developer	\$ 1,621,026.56

The estimated Municipal share of the additional work is \$1,621,026.56. The **Parties** understand that this is an estimated cost and subject to change.

B. PROJECT COSTS

The **Developer** has agreed to participate in the Project costs as follows:

- i. The estimated cost of the additional work is \$1,621,026.56. The **Developer** shall participate in 100% of actual costs. The **Department** will participate in 0% of actual costs.
- ii. The **Department** may consult with the **Developer** on changes to cost estimates prior to construction, or changes to costs during construction. Consultation between the **Department** and the **Developer** is offered as a courtesy to apprise the **Developer** of potential cost increases and to allow appropriate budgeting. Failure of the **Department** to notify the **Developer** of cost increases does not affect the payment terms of the agreement.

C. PAYMENT BY THE DEVELOPER

- i. Based on the estimated cost of \$1,621,026.56 the **Developer** shall submit payment for \$1,621,026.56 to the **Department's** Fiscal Section upon full execution of this Agreement in accordance with the attached "Remittance Guidance".
- ii. Upon completion of the Project, if actual costs exceed the amount of the down payment, the **Developer** shall reimburse the **Department** any underpayment within sixty (60) days of invoicing by the **Department**. The **Department** will charge a late payment penalty and

interest on any unpaid balance due in accordance with G. S. 147-86.23. If the actual cost of the work is less than \$1,621,026.56, the **Department** will reimburse the **Developer** any overpayment.

V. STANDARD PROVISIONS

A. AGREEMENT MODIFICATIONS

Any modification to scope, funding, responsibilities, or time frame will be agreed upon by all **Parties** by means of a written Supplemental Agreement.

B. ASSIGNMENT OF RESPONSIBILITIES

The **Department** must approve any assignment or transfer of the responsibilities of the **Developer** set forth in this Agreement to other parties or entities; provided, however, such approval from **Department** shall in no event be unreasonably withheld, conditioned, or delayed. Notwithstanding anything in this Agreement to the contrary, (i) **Developer** shall have the right to (without any requirement for consent or approval from **Department**) assign **Developer's** maintenance responsibilities and obligations under this Agreement to the applicable municipal authority, utility company, or other appropriate person/entity (e.g. property owner association), and (ii) following the date of any such assignment, **Developer** shall be released from, and have no liability with respect to, the maintenance responsibilities/obligations so assigned.

C. AGREEMENT FOR IDENTIFIED PARTIES ONLY

This Agreement is solely for the benefit of the identified **Parties** to the Agreement and is not intended to give any rights, claims, or benefits to third parties or to the public at large.

D. OTHER AGREEMENTS

The **Developer** is solely responsible for all agreements, contracts, and work orders entered into or issued by the **Developer** to meet the terms of this Agreement. The **Department** is not responsible for any expenses or obligations incurred by the **Developer** for the terms of this Agreement except those specifically eligible for the funds and obligations as approved by the **Department** under the terms of this Agreement.

E. TITLE VI

The other party to this Agreement shall comply with Title VI of the Civil Rights Act of 1964 (Title 49 CFR, Subtitle A, Part 21) and related nondiscrimination authorities. Title VI and related authorities prohibit discrimination on the basis of race, color, national origin, disability, gender, and age in all programs or activities of any recipient of Federal assistance.

F. FACSIMILE

A copy or facsimile copy of the signature of any party shall be deemed an original with each fully executed copy of the Agreement as binding as an original, and the **Parties** agree that this Agreement can be executed in counterparts, as duplicate originals, with facsimile signatures sufficient to evidence an agreement to be bound by the terms of the Agreement.

G. AUTHORIZATION TO EXECUTE

The **Parties** hereby acknowledge that the individual executing this Agreement has read this Agreement, conferred with legal counsel, fully understands its contents, and is authorized to execute this Agreement and to bind the respective **Parties** to the terms contained herein.

H. DEBARMENT POLICY

It is the policy of the **Department** not to enter into any agreement with parties that have been debarred by any government agency (Federal or State). By execution of this agreement, the **Developer** certifies that neither it nor its agents or contractors are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal or State Agency or Department and that it will not enter into agreements with any entity that is debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction.

I. INDEMNIFICATION

To the extent authorized by state and federal claims statutes, the **Developer** shall be responsible for its actions under the terms of this agreement and save harmless the FHWA (if applicable), the **Department**, and the State of North Carolina, their respective officers, directors, principals, employees, agents, successors, and assigns from and against any and all claim for payment, damages and/or liabilities of any nature, asserted against the **Department** in connection with the **Developer's** negligence and/or responsibilities under the terms of this Agreement. The **Department** shall not be liable and shall be held harmless from any and all third-party claims that might arise on account of the **Developer's** negligence and/or responsibilities under the terms of this agreement.

J. AVAILABILITY OF FUNDS

All terms and conditions of this Agreement are dependent upon, and, subject to the allocation of funds for the purpose set forth in the Agreement and the Agreement shall automatically terminate if funds cease to be available.

K. DOCUSIGN

The **Department** and **Developer** acknowledge and agree that the electronic signature application DocuSign may be used, at the sole election of the **Department** or the **Developer**,

ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
PRE-ENGINEERING AND CONSTRUCTION
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to execute this Agreement. By selecting "I Agree", "I Accept", or other similar item, button, or icon via use of a keypad, mouse, or other device, as part of the DocuSign application, the **Department** and **Developer** consent to be legally bound by the terms and conditions of Agreement and that such act constitutes **Department's** signature as if actually signed by the **Department** in writing or the **Developer's** signature as if actually signed by the **Developer** in writing. The **Department** and **Developer** also agree that no certification authority or other third-party verification is necessary to validate its electronic signature and that the lack of such certification or third-party verification will not in any way affect the enforceability of its electronic signature. The **Department** and **Developer** acknowledge and agree that delivery of a copy of this Agreement or any other document contemplated hereby through the DocuSign application, will have the same effect as physical delivery of the paper document bearing an original written signature.

L. GIFT BAN

By Executive Order 24, issued by Governor Perdue, and NCGS 133-32, it is unlawful for any vendor or contractor (i.e. architect, bidder, contractor, construction manager, design professional, engineer, landlord, offeror, seller, subcontractor, supplier, or vendor), to make gifts or to give favors to any State employee of the Governor's Cabinet Agencies (i.e. Administration, Adult Corrections, Commerce, Environmental Quality, Health and Human Services, Information Technology, Military and Veterans Affairs, Natural and Cultural Resources, Public Safety, Revenue, Transportation, and the Office of the Governor).

VI. SPECIAL PROVISIONS

A. DEVELOPER TERMINATION RIGHT

Notwithstanding anything the contrary contained in this Agreement, (i) the parties hereto agree and acknowledge that it is **Developer's** intent to, on or before the date that the **Department** awards contract(s) for the construction of the Additional Work contemplated herein (the "Award Date"), assign and/or transfer **Developer's** maintenance responsibilities hereunder to the applicable person or entity in accordance with Section III.D.i. or V.B. above (the "Developer Assignment"), (ii) in the event the Developer Assignment has not occurred on or before the Award Date, **Developer** shall have the right to, upon written notice delivered to the **Department** at any time prior to the Award Date, terminate this Agreement, and (iii) in the event of such termination effectuated by **Developer**, this Agreement and the rights and obligations of the parties hereunder shall terminate, except that **Department** shall be obligated to promptly reimburse **Developer** for all sums received by **Department** from **Developer** hereunder that have not, as of such termination date, already been expended by **Department** in connection with the Additional Work contemplated herein.

**ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
PRE-ENGINEERING AND CONSTRUCTION
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SIGNATURE PAGE

IN WITNESS WHEREOF, this Agreement has been executed the day and year heretofore set out, on the part of the **Department** and the **Developer** by authority duly given.

(DOCUSIGN ONLY)

Signed by:
Authorized Signer: Tim Smith
28D2CF075C10423...
Print Name: Tim Smith
Title: vice president
Date Signed: 02/05/2025

If applicable, this Agreement has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act:

CHATHAM PARK INVESTORS LLC

FED TAX ID NO: 20-1961090

REMITTANCE ADDRESS:

105 Weston Estates Way

Cary NC 27513

DocuSigned by:
Finance Officer: Glenn Russell
322ED6B3455849A...
Print Name: Glenn Russell
Date Signed: 02/05/2025

DEPARTMENT OF TRANSPORTATION

DocuSigned by:
BY: Lamar Sylvester
EF11EAF2524D443...
TITLE: Chief Engineer
DATE: 02/10/2025

Initial
LS

APPROVED BY BOARD OF TRANSPORTATION ITEM O: 2/6/2025 (DATE)

ACCOUNTS RECEIVABLE
TIP AGREEMENT – ADDITIONAL WORK
PRE-ENGINEERING AND CONSTRUCTION
1000023775
1000024306

SIGNATURE PAGE

IN WITNESS WHEREOF, this Agreement has been executed the day and year heretofore set out, on the part of the **Department** and the **Developer** by authority duly given.

(INK SIGNATURES ONLY)

ATTEST: _____ Authorized Signer: _____

BY: _____ Print Name: _____

TITLE: _____ Title: _____

Date Signed: _____

If applicable, this Agreement has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act:

CHATHAM PARK INVESTORS LLC

FED TAX ID NO: _____ Finance Officer: _____

REMITTANCE ADDRESS: _____ Print Name: _____

_____ Date Signed: _____

DEPARTMENT OF TRANSPORTATION (DocuSign)

BY: _____

TITLE: _____

DATE: _____

APPROVED BY BOARD OF TRANSPORTATION ITEM O: _____ (DATE)



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

Josh Stein
Governor

J.R. "Joey" Hopkins
Secretary

MEMO TO: Jeffrey A. Stroder, PE

FROM: Shihai Zhang, PE

SUBJECT: Final Pavement Design
R-5963A, 48599.1.1
Chatham Parkway From US-15/501 South of Pittsboro to US-64 Bus.
Chatham County, Division 8

DocuSigned by:
Shihai Zhang
245D67F41811435...

DATE: February 11, 2025

The pavement designs for the above project are as follows:

Line	Surface	Intermed.	Base	ABC	Stab.
L (Chatham Parkway)	3.0" S9.5C	4.0" I19.0C	3.0" B25.0C	-	Yes
RBT	3.0" S9.5C	4.0" I19.0C	3.0" B25.0C	-	Yes
Y1 (US-15/501)	3.0" S9.5C	4.0" I19.0C	4.0" B25.0C	-	No
Y7 (SR-1012) Moncure Pittsboro Rd.	3.0" S9.5C	4.0" I19.0C	4.0" B25.0C	-	No
Y14 (US-64 BUS)	3.0" S9.5C	4.0" I19.0C	4.0" B25.0C	-	No
Y16 (SR-1943) Hanks Chapel Rd.	3.0" S9.5C	4.0" I19.0C	4.0" B25.0C	-	No

For Y1, mill the existing pavement to remain in place 2.5" and replace with 2.5" I19.0C, and then overlay with 3.0" S9.5C.

For Y7, Y14, and Y16, overlay the existing pavement to remain in place with 1.5" S9.5C. 1.5" Milling may be performed in areas where the grade must be maintained.

Shoulder drains are not required for this project.

For RBT: 12" Jointed Concrete Truck Apron
w/ welded wire mesh (4x4 W5.5 x W5.5 or 6x6 W8.5 x W8.5 or heavier)
3.0" B25.0C
Subgrade Stabilization
15' radial joint spacing

See Recommendations for Pavement and Subgrade - REV dated January 30, 2025 for additional recommendations, quantities and details. Note, the stabilization listed in the table above references chemical stabilization or Aggregate Subgrade Type I, depending on the station range.

This project will be signed and sealed by Andrew D. Wargo, Ph.D. PE.

If any additional information is needed, please contact Andrew D. Wargo, Ph.D. PE, Pavement Design/Analysis Engineer at 919-329-4017, or Shihai Zhang, PE, State Pavement Design Engineer at 919-329-4018.

SZ/adw

cc: Ms. Leigh M. Wing, PE
Mr. Reuben Blakley, PE
Ms. Tatia L. White, PE, PLS, CPM
Mr. Troy B. Brooks, PE

Dr. Joseph E. Hummer, PE
Mr. Matt Alexander, PE

Mailing Address: NC DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS UNIT 1563 MAIL SERVICE CENTER RALEIGH, NC 27699-1563	Telephone: (919) 329-4000 Fax: (919) 733-8742 Customer Service: 1-877-368-4968 Website: www.ncdot.gov	Location: 1801 BLUE RIDGE ROAD RALEIGH, NC 27607
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North Carolina Department of Transportation
Preliminary Estimate

TIP No. **R-5963A Chatham Park Investors Betterments**
Route Chatham Park Way
From US 501 South of Pittsboro to US 64 Business
Typical Section 2-Lane Divided Shoulder and 4-Lane Divided C&G

Final

County: **CHATHAM**

CONSTR. COST
\$0

Prepared By: Kimley-Horn	Date: 2/17/2025
Requested By: Division 8	Date: 2/11/2025
Priced By: Curtis Tillman, PE	Date:

Line Item	Item No.	Sec No.	Description	Quantity	Unit	Price	Amount
			SIGNALS				
	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION WITH COUNTDOWN)	3.2	EA		\$ -
	7060000000-E	1705	SIGNAL CABLE	1,385	LF		\$ -
	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	4.4	EA		\$ -
	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	0.8	EA		\$ -
	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	0.4	EA		\$ -
	7288000000-E	1715	PAVED TRENCHING (2 conduits, 2 inch)	59	LF		\$ -
	7300000000-E	1715	UNPAVED TRENCHING (2 conduits, 2 inch)	198	LF		\$ -
	7301000000-E	1715	DIRECTIONAL DRILL (2 conduits, 2 inch)	185	LF		\$ -
	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	3.0	EA		\$ -
	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	1.6	EA		\$ -
	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	562	LF		\$ -
	7456000000-E	1726	LEAD-IN CABLE (14-2)	1,474	LF		\$ -
	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	1.6	EA		\$ -
	7613000000-N	SP	SOIL TEST	1.6	EA		\$ -
	7614100000-E	SP	DRILLED PIER FOUNDATION*	8.8	CY		\$ -
	7631000000-N	SP	MAST ARM WITH METAL POLE DESIGN	1.6	EA		\$ -
	7636000000-N	1745	SIGN FOR SIGNALS	4.2	EA		\$ -
	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	2.2	EA		\$ -
	7684000000-N	1750	SIGNAL CABINET FOUNDATION	0.4	EA		\$ -
	7696000000-N	1751	CONTROLLER WITH CABINET (TYPE *****2070LX, BASE MOUNTED)	0.4	EA		\$ -
	7744000000-N	1751	DETECTOR CARD (TYPE 170)	4.2	EA		\$ -
	7901000000-N	1753	CABINET BASE EXTENDER	0.4	EA		\$ -
	7980000000-N	SP	POWDER COAT FOR SINGLE MAST ARM WITH METAL POLE	1.6	EA		\$ -
	7980000000-N	SP	POWDER COAT FOR PEDESTAL	2.4	EA		\$ -
			UTILITY CONSTRUCTION				
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1,053.00	TON		\$ -
	0321000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	216.00	SY		\$ -
	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	83.00	TON		\$ -
	5326200000-E	1510	12" WATER LINE	9,421	LF		\$ -
	5326600000-E	1510	16" WATER LINE	588	LF		\$ -
	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	11,900.00	LB		\$ -
	5540000000-E	1515	6" VALVE	14	EA		\$ -
	5558000000-E	1515	12" VALVE	12.00	EA		\$ -
	5589200000-E	1515	2" AIR RELEASE VALVE	3.00	EA		\$ -
	5666000000-N	1515	FIRE HYDRANT	15.00	EA		\$ -
	5673000000-E	1515	FIRE HYDRANT LEG	231.00	LF		\$ -
	5835900000-E	1540	20" ENCASEMENT PIPE	1,280.00	LF		\$ -
	5836200000-E	1540	30" ENCASEMENT PIPE	165	LF		\$ -
	5872500000-E	1550	BORE AND JACK OF 20"	108.00	LF		\$ -
	5872600000-E	1550	DIRECTIONAL DRILLING OF 16"	588	LF		\$ -
	5888000000-E	1520	GENERIC UTILITY ITEM - 2" PVC CASING	1,744	LF		\$ -
	5888000000-E	1520	GENERIC UTILITY ITEM - 4" PVC CASING	6,193	LF		\$ -
	5888000000-E	1520	GENERIC UTILITY ITEM - 6" PVC CASING	3,744	LF		\$ -
			RETAINING WALL #1				
	8847000000-E	SP	FORM LINER ARCHITECTURAL FINISH	1,720	SF		\$ -
			RETAINING WALL #2				
	8847000000-E	SP	FORM LINER ARCHITECTURAL FINISH	1,720	SF		\$ -
			RETAINING WALL #3				
	8847000000-E	SP	FORM LINER ARCHITECTURAL FINISH	2,935	SF		\$ -

Lgth 3.2

Contract Cost
E. & C. 16%
Construction Cost

North Carolina Department of Transportation
Preliminary Estimate

TIP No. **R-5963A Tri-River Betterments**
Route Chatham Park Way
From US 501 South of Pittsboro to US 64 Business
Typical Section 2-Lane Divided Shoulder and 4-Lane Divided C&G

Final

County: **CHATHAM**

CONSTR. COST
\$0

Prepared By: Kimley-Horn
Requested By: Division 8
Priced By: Curtis Tillman, PE

Date 2/17/2025
Date 2/11/2025
Date

Line Item	Item No.	Sec No.	Description	Quantity	Unit	Price	Amount
			<u>UTILITY CONSTRUCTION</u>				
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	31.25	TON		\$ -
	0321000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	6.25	SY		\$ -
	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	20.75	TON		\$ -
	5325600000-E	1510	6" WATER LINE	8	LF		\$ -
	5325800000-E	1510	8" WATER LINE	100	LF		\$ -
	5326200000-E	1510	12" WATER LINE	22.75	LF		\$ -
	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	725	LB		\$ -
	5540000000-E	1515	6" VALVE	0.25	EA		\$ -
	5558000000-E	1515	12" VALVE	0.25	EA		\$ -
	5571600000-E	1515	6" TAPPING SLEEVE & VALVE	0.25	EA		\$ -
	5589200000-E	1515	2" AIR RELEASE VALVE	0.25	EA		\$ -
	5648000000-N	1515	RELOCATE WATER METER	0.25	EA		\$ -
	5666000000-N	1515	FIRE HYDRANT	0.25	EA		\$ -
	5673000000-E	1515	FIRE HYDRANT LEG	1.5	LF		\$ -
	5686500000-E	1515	WATER SERVICE LINE	23	LF		\$ -
	5709000000-E	1520	3" FORCE MAIN SEWER	147.5	LF		\$ -
	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	200	LB		\$ -
	5798000000-E	1530	ABANDON 3" UTILITY PIPE	153.25	LF		\$ -
	5801000000-E	1530	ABANDON 8" UTILITY PIPE	62	LF		\$ -
	5804000000-E	1530	ABANDON 12" UTILITY PIPE	29.5	LF		\$ -
	5835000000-E	1540	48" ENCASEMENT PIPE	133	LF		\$ -
	5835600000-E	1540	12" ENCASEMENT PIPE	31.75	LF		\$ -
	5835700000-E	1540	16" ENCASEMENT PIPE	26.25	LF		\$ -

Lgth 3.2

Contract Cost
E. & C. 16%
Construction Cost

North Carolina Department of Transportation
Preliminary Estimate

TIP No. **R-5963A**
Route Chatham Park Way
From US 501 South of Pittsboro to US 64 Business
Typical Section 2-Lane Divided Shoulder and 4-Lane Divided C&G

Final

County: **CHATHAM**

CONSTR. COST
\$0

Prepared By: Kimley-Horn
Requested By: Division 8
Priced By: Curtis Tillman, PE

Date 2/17/2025
Date 2/11/2025
Date

Line Item	Item No.	Sec No.	Description	Quantity	Unit	Price	Amount
	0000100000-N	800	MOBILIZATION	1	LS		\$ -
	0000400000-N	801	CONSTRUCTION SURVEYING	1	LS		\$ -
	0001000000-E	200	CLEARING AND GRUBBING (47 ACRES)	1	LS		\$ -
	0015000000-N	205	SEALING ABANDONED WELLS	2	EA		\$ -
	0022000000-E	225	UNCLASSIFIED EXCAVATION	457,000	CY		\$ -
	0036000000-E	225	UNDERCUT EXCAVATION	12,375	CY		\$ -
	0050000000-E	200	SUPPLEMENTAL CLEARING AND GRUBBING	3	ACR		\$ -
	0127000000-N	235	EMBANKMENT SETTLEMENT GAUGES	5	EA		\$ -
	0134000000-E	240	DRAINAGE DITCH EXCAVATION	1,530	CY		\$ -
	0141000000-E	240	BERM DITCH CONSTRUCTION	2,700	LF		\$ -
	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	350	SY		\$ -
	0192000000-N	260	PROOF ROLLING	30	HR		\$ -
	0194000000-E	265	SELECT GRANULAR MATERIAL - CLASS III	2,000	CY		\$ -
	0195000000-E	265	SELECT GRANULAR MATERIAL	6,275	CY		\$ -
	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION - ROADWAY	7,425	SY		\$ -
	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION - EC	4,600	SY		\$ -
	0222000000-E	SP	GEOTEXTILE FOR ROCK EMBANKMENTS	3,180	SY		\$ -
	0314000000-E	SP	SELECT MATERIAL, CLASS VII FOR ROCK EMBANKMENTS	16,640	TON		\$ -
	0314000000-E	SP	SELECT MATERIAL, CLASS VI FOR ROCK EMBANKMENTS	1,730	TON		\$ -
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES - RDWY	2,800	TON		\$ -
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES - UTIL	100	TON		\$ -
	0321000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE - RDWY	8,700	SY		\$ -
	0321000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE - UTIL	20	SY		\$ -
	0335200000-E	305	15" DRAINAGE PIPE	116	LF		\$ -
	0335300000-E	305	18" DRAINAGE PIPE	104	LF		\$ -
	0335400000-E	305	24" DRAINAGE PIPE	112	LF		\$ -
	0335500000-E	305	30" DRAINAGE PIPE	48	LF		\$ -
	0335850000-E	305	15" DRAINAGE PIPE ELBOWS	6	EA		\$ -
	0335850000-E	305	18" DRAINAGE PIPE ELBOWS	4	EA		\$ -
	0335850000-E	305	24" DRAINAGE PIPE ELBOWS	4	EA		\$ -
	0335850000-E	305	30" DRAINAGE PIPE ELBOWS	2	EA		\$ -
	0343000000-E	310	15" SIDE DRAIN PIPE	140	LF		\$ -
	0448000000-E	310	48" RC PIPE CULVERT, CLASS IV	428	LF		\$ -
	0448200000-E	310	15" RC PIPE CULVERT, CLASS IV	8,184	LF		\$ -
	0448300000-E	310	18" RC PIPE CULVERT, CLASS IV	11,372	LF		\$ -
	0448400000-E	310	24" RC PIPE CULVERT, CLASS IV	3,744	LF		\$ -
	0448500000-E	310	30" RC PIPE CULVERT, CLASS IV	1,436	LF		\$ -
	0448600000-E	310	36" RC PIPE CULVERT, CLASS IV	264	LF		\$ -
	0449000000-E	310	42" RC PIPE CULVERT, CLASS V	112	LF		\$ -
	0995000000-E	340	PIPE REMOVAL	565	LF		\$ -
	1011000000-N	500	FINE GRADING (174,000 SY)	1	LS		\$ -
	1044000000-E	501	LIME TREATED SOIL (SLURRY METHOD)	56,500	SY		\$ -
	1066000000-E	501	LIME FOR LIME TREATED SOIL	700	TON		\$ -
	1077000000-E	SP	#57 STONE	1,730	TON		\$ -
	1099500000-E	505	SHALLOW UNDERCUT	1,500	CY		\$ -
	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	7,810	TON		\$ -
	1110000000-E	510	STABILIZER AGGREGATE	500	TON		\$ -
	1112000000-E	505	GEOTEXTILE FOR SUBGRADE STABILIZATION	15,130	SY		\$ -

North Carolina Department of Transportation
Preliminary Estimate

	1121000000-E	520	AGGREGATE BASE COURSE	13,600	TON		\$	-
	1176000000-E	542	SOIL CEMENT BASE	56,500	SY		\$	-
	1187000000-E	542	PORTLAND CEMENT FOR SOIL CEMENT BASE	1,600	TON		\$	-
	1220000000-E	545	INCIDENTAL STONE BASE	100	TON		\$	-
	1275000000-E	600	PRIME COAT	56	GAL		\$	-
	1297000000-E	607	MILLING ASPHALT PAVEMENT, 1.5" DEPTH	1,150	SY		\$	-
	1297000000-E	607	MILLING ASPHALT PAVEMENT, 2.5" DEPTH	6,150	SY		\$	-
	1330000000-E	607	INCIDENTAL MILLING	950	SY		\$	-
	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	22,000	TON		\$	-
	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	27,000	TON		\$	-
	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	20	TON		\$	-
	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	24,000	TON		\$	-
	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	3,705	TON		\$	-
	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	130	TON		\$	-
	1891000000-E	SP	GENERIC PAVING ITEM - 12" JOINTED CONCRETE TRUCK APRON	270	SY		\$	-
	2000000000-N	806	RIGHT-OF-WAY MARKERS	4	EA		\$	-
	2020000000-N	806	CONTROL-OF-ACCESS MARKERS	199	EA		\$	-
	2022000000-E	815	SUBDRAIN EXCAVATION	4,170	CY		\$	-
	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	12,400	SY		\$	-
	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	2,090	CY		\$	-
	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	12,400	LF		\$	-
	2070000000-E	815	SUBDRAIN PIPE OUTLET	25	EA		\$	-
	2077000000-E	815	6" OUTLET PIPE	150	LF		\$	-
	2099000000-E	816	SHOULDER DRAIN	320	LF		\$	-
	2110000000-E	816	4" SHOULDER DRAIN PIPE	300	LF		\$	-
	2121000000-E	816	4" OUTLET PIPE FOR SHOULDER DRAINS	80	LF		\$	-
	2132000000-N	816	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	4	EA		\$	-
	2143000000-E	818	BLOTTING SAND	20	TON		\$	-
	2209000000-E	838	ENDWALLS	22.5	CY		\$	-
	2253000000-E	840	PIPE COLLARS	0.6	CY		\$	-
	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	275	EA		\$	-
	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	157	LF		\$	-
	2364000000-N	840	FRAME WITH TWO GRATES, STD. 840.16	4	EA		\$	-
	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	76	EA		\$	-
	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	1	EA		\$	-
	2374000000-N	840	FRAME WITH GRATE & HOOD, STD. 840.03, TYPE E	15	EA		\$	-
	2374000000-N	840	FRAME WITH GRATE & HOOD, STD. 840.03, TYPE F	91	EA		\$	-
	2374000000-N	840	FRAME WITH GRATE & HOOD, STD. 840.03, TYPE G	53	EA		\$	-
	2396000000-N	840	FRAME WITH COVER, STD. 840.54	5	EA		\$	-
	2407000000-N	840	STEEL FRAME WITH TWO GRATES, STD 840.37	26	EA		\$	-
	2440000000-N	852	CONCRETE TRANSITIONAL SECTION FOR CATCH BASIN	59	EA		\$	-
	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	25	EA		\$	-
	2535000000-E	846	9" X 18" CONCRETE CURB	270	LF		\$	-
	2542000000-E	846	1'-6" CONCRETE CURB AND GUTTER	25,600	LF		\$	-
	2549000000-E	846	2'-6" CONCRETE CURB AND GUTTER	17,800	LF		\$	-
	2577000000-E	846	CONCRETE EXPRESSWAY GUTTER	340	LF		\$	-
	2605000000-N	848	CONCRETE CURB RAMP	120	EA		\$	-
	2612000000-E	848	6" CONCRETE DRIVEWAYS	370	SY		\$	-
	2619000000-E	850	4" CONCRETE PAVED DITCH	40	SY		\$	-
	2655000000-E	852	5" MONOLITHIC ISLANDS (KEYED-IN)	3,460	SY		\$	-
	3030000000-E	862	STEEL BEAM GUARDRAIL	2,125	LF		\$	-
	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10	EA		\$	-
	3210000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	7	EA		\$	-
	3287000000-N	862	GUARDRAIL END UNITS, TYPE TL-3	11	EA		\$	-
	3317000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE B-77	12	EA		\$	-
	3575000000-E	SP	GENERIC FENCING ITEM - PEDESTRIAN SAFETY RAIL	1,010	LF		\$	-

North Carolina Department of Transportation
Preliminary Estimate

	3628000000-E	876	RIP RAP, CLASS I	520	TON		\$ -
	3642000000-E	876	RIP RAP, CLASS A	2,380	TON		\$ -
	3649000000-E	876	RIP RAP, CLASS B	4,440	TON		\$ -
	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	7,200	SY		\$ -
	4025000000-E	901	CONTRACTOR FURNISHED, TYPE 'A' SIGN	2,970	SF		\$ -
	4025000000-E	901	CONTRACTOR FURNISHED, TYPE 'B' SIGN	165	SF		\$ -
	4025000000-E	901	CONTRACTOR FURNISHED, TYPE 'D' SIGN	203	SF		\$ -
	4025000000-E	901	CONTRACTOR FURNISHED, TYPE 'E' SIGN	985	SF		\$ -
	4025000000-E	901	CONTRACTOR FURNISHED, TYPE 'F' SIGN	1,114	SF		\$ -
	4048000000-E	902	REINFORCED CONCRETE SIGN FOUNDATIONS	9	CY		\$ -
	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	8,593	LB		\$ -
	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	4,915	LF		\$ -
	4096000000-N	904	SIGN ERECTION, TYPE D	13	EA		\$ -
	4102000000-N	904	SIGN ERECTION, TYPE E	125	EA		\$ -
	4108000000-N	904	SIGN ERECTION, TYPE F	63	EA		\$ -
	4110000000-N	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	20	EA		\$ -
	4110000000-N	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	6	EA		\$ -
	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE F (GROUND MOUNTED)	33	EA		\$ -
	4152000000-N	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	6	EA		\$ -
	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	24	EA		\$ -
	4236000000-N	907	DISPOSAL OF SIGN, A or B (GROUND MOUNTED)	12	EA		\$ -
	4238000000-N	907	DISPOSAL OF SIGN, D, E OR F	33	EA		\$ -
	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	144	SF		\$ -
	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	768	SF		\$ -
	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	368	SF		\$ -
	4430000000-N	1130	DRUMS	93	EA		\$ -
	4435000000-E	1135	CONES	339	EA		\$ -
	4445000000-E	1145	BARRICADES (TYPE III)	72	LF		\$ -
	4455000000-E	1150	FLAGGER	80	DAY		\$ -
	4516000000-N	1180	SKINNY DRUMS	131	EA		\$ -
	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	51,500	LF		\$ -
	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	8,200	LF		\$ -
	4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	560	LF		\$ -
	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	144	EA		\$ -
	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	89,000	LF		\$ -
	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	2,500	LF		\$ -
	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	430	LF		\$ -
	4845000000-E	1205	PAINT PAVEMENT MARKING SYMBOLS	40	EA		\$ -
	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (4", 30 MILS)	810	LF		\$ -
	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM - YIELD LINE THERMOPLASTIC PAVEMENT MARKING, 24", 90 MILS	70	LF		\$ -
	4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM - POLYCARBONATE H-SHAPED MARKERS	650	EA		\$ -
	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	5	EA		\$ -
	6000000000-E	1605	TEMPORARY SILT FENCE	50,480	LF		\$ -
	6006000000-E	1610	EROSION CONTROL STONE, CLASS A	2,590	TON		\$ -
	6009000000-E	1610	EROSION CONTROL STONE, CLASS B	7,780	TON		\$ -
	6012000000-E	1610	SEDIMENT CONTROL STONE	6,325	TON		\$ -
	6015000000-E	1615	TEMPORARY MULCHING	57	ACR		\$ -
	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	2,400	LB		\$ -
	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	12.0	TON		\$ -
	6024000000-E	1622	TEMPORARY SLOPE DRAINS	2,835	LF		\$ -
	6029000000-E	SP	SAFETY FENCE	2,720	LF		\$ -
	6030000000-E	1630	SILT EXCAVATION	18,190	CY		\$ -
	6036000000-E	1631	MATting FOR EROSION CONTROL	111,150	SY		\$ -
	6037000000-E	1629	COIR FIBER MAT	9,715	SY		\$ -
	6042000000-E	1632	1/4" HARDWARE CLOTH	12,300	LF		\$ -

North Carolina Department of Transportation
Preliminary Estimate

	6043000000-E	1644	LOW PERMEABILITY GEOTEXTILE	4,600	SY		\$	-
	6071002000-E	1642	FLOCCULANT	3,585	LB		\$	-
	6071012000-E	1642	COIR FIBER WATTLE	6,570	LF		\$	-
	6071014000-E	1642	COIR FIBER WATTLE BARRIER	930	LF		\$	-
	6071030000-E	1640	COIR FIBER BAFFLE	11,310	LF		\$	-
	6084000000-E	1660	SEEDING AND MULCHING	48	ACR		\$	-
	6087000000-E	1660	MOWING	48	ACR		\$	-
	6090000000-E	1661	SEED FOR REPAIR SEEDING	600	LB		\$	-
	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	2.25	TON		\$	-
	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	1,150	LB		\$	-
	6108000000-E	1665	FERTILIZER TOPDRESSING	34.25	TON		\$	-
	6114500000-N	1667	SPECIALIZED HAND MOWING	10	MHR		\$	-
	6117000000-N	1675	RESPONSE FOR EROSION CONTROL	125	EA		\$	-
	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2	EA		\$	-
	6123000000-E	1670	REFORESTATION	0.1	ACR		\$	-
	6132000000-E	SP	GENERIC EROSION CONTROL ITEM - PREFABRICATED CONCRETE WASH	12	EA		\$	-
	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION WITH COUNTDOWN)	12.8	EA		\$	-
	7060000000-E	1705	SIGNAL CABLE	5,540	LF		\$	-
	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	17.6	EA		\$	-
	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	3.2	EA		\$	-
	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	1.6	EA		\$	-
	7288000000-E	1715	PAVED TRENCHING (2 conduits, 2 inch)	236	LF		\$	-
	7300000000-E	1715	UNPAVED TRENCHING (2 conduits, 2 inch)	792	LF		\$	-
	7301000000-E	1715	DIRECTIONAL DRILL (2 conduits, 2 inch)	740	LF		\$	-
	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	12.0	EA		\$	-
	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	6.4	EA		\$	-
	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	2,248	LF		\$	-
	7456100000-E	1726	LEAD-IN CABLE (14-2)	5,896	LF		\$	-
	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	6.4	EA		\$	-
	7613000000-N	SP	SOIL TEST	6.4	EA		\$	-
	7614100000-E	SP	DRILLED PIER FOUNDATION*	35.2	CY		\$	-
	7631000000-N	SP	MAST ARM WITH METAL POLE DESIGN	6.4	EA		\$	-
	7636000000-N	1745	SIGN FOR SIGNALS	16.8	EA		\$	-
	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	8.8	EA		\$	-
	7684000000-N	1750	SIGNAL CABINET FOUNDATION	1.6	EA		\$	-
	7696000000-N	1751	CONTROLLER WITH CABINET (TYPE *****2070LX, BASE MOUNTED)	1.6	EA		\$	-
	7744000000-N	1751	DETECTOR CARD (TYPE 170)	16.8	EA		\$	-
	7901000000-N	1753	CABINET BASE EXTENDER	1.6	EA		\$	-
	7980000000-N	SP	POWDER COAT FOR SINGLE MAST ARM WITH METAL POLE	6.4	EA		\$	-
	7980000000-N	SP	POWDER COAT FOR PEDESTAL	9.6	EA		\$	-
			<u>BRIDGE 180540 @ -L- STA. 76+49.00</u>					
	8096000000-E	450	PILE EXCAVATION IN SOIL	258	LF		\$	-
	8097000000-E	450	PILE EXCAVATION NOT IN SOIL	128	LF		\$	-
	8105540000-E	411	3'-6" DIA DRILLED PIERS IN SOIL	26	LF		\$	-
	8105640000-E	411	3'-6" DIA DRILLED PIERS NOT IN SOIL	141	LF		\$	-
	8111400000-E	411	PERMANENT STEEL CASING FOR 3'-6" DIA DRILLED PIER	34	LF		\$	-
	8115000000-N	411	CSL TESTING	2	EA		\$	-
	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	9,616	SF		\$	-
	8161000000-E	420	GROOVING BRIDGE FLOORS	9,819	SF		\$	-
	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	163	CY		\$	-
	8210000000-N	422	BRIDGE APPROACH SLABS, STATION 76+49.00 -L-	1	LS		\$	-
	8217000000-E	425	REINFORCING STEEL (BRIDGE)	32,183	LB		\$	-
	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	4,895	LB		\$	-
	8262000000-E	430	45" PRESTRESSED CONCRETE GIRDERS	1,111	LF		\$	-
	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES	26	EA		\$	-
	8384000000-E	450	HP 14 X 73 STEEL PILES	520	LF		\$	-
	8391000000-N	450	STEEL PILE POINTS	26	EA		\$	-
	8394000000-N	450	DYNAMIC PILE TESTING	1	EA		\$	-
	8475000000-E	460	TWO BAR METAL RAIL	265	LF		\$	-

North Carolina Department of Transportation
Preliminary Estimate

	8503000000-E	460	CONCRETE BARRIER RAIL	280	LF		\$	-
	8517000000-E	460	1'-2" X 2'-6" CONCRETE PARAPET	280	LF		\$	-
	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	580	TON		\$	-
	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	645	SY		\$	-
	8657000000-N	430	ELASTOMERIC BEARINGS	1	LS		\$	-
			BRIDGE 180541 @ -L- STA. 135+00.00 (LEFT)					
	8096000000-E	450	PILE EXCAVATION IN SOIL	34	LF		\$	-
	8097000000-E	450	PILE EXCAVATION NOT IN SOIL	19	LF		\$	-
	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	5,434	SF		\$	-
	8161000000-E	420	GROOVING BRIDGE FLOORS	5,538	SF		\$	-
	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	81	CY		\$	-
	8210000000-N	422	BRIDGE APPROACH SLABS, STATION 135+00.00 -L-	1	LS		\$	-
	8217000000-E	425	REINFORCING STEEL (BRIDGE)	11,228	LB		\$	-
	8278000000-E	430	FIB 54" PRESTRESSED CONCRETE GIRDERS	590	LF		\$	-
	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES	22	EA		\$	-
	8384000000-E	450	HP 14 X 73 STEEL PILES	445	LF		\$	-
	8391000000-N	450	STEEL PILE POINTS	22	EA		\$	-
	8475000000-E	460	TWO BAR METAL RAIL	112	LF		\$	-
	8503000000-E	460	CONCRETE BARRIER RAIL	239	LF		\$	-
	8517000000-E	460	1'-2" X 2'-6" CONCRETE PARAPET	120	LF		\$	-
	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	360	TON		\$	-
	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	401	SY		\$	-
	8657000000-N	430	ELASTOMERIC BEARINGS	1	LS		\$	-
			BRIDGE 180542 @ -L- STA. 135+00.00 (RIGHT)					
	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	5,434	SF		\$	-
	8161000000-E	420	GROOVING BRIDGE FLOORS	5,538	SF		\$	-
	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	82	CY		\$	-
	8210000000-N	422	BRIDGE APPROACH SLABS, STATION 135+00.00 -L-	1	LS		\$	-
	8217000000-E	425	REINFORCING STEEL (BRIDGE)	11,534	LB		\$	-
	8278000000-E	430	FIB 54" PRESTRESSED CONCRETE GIRDERS	590	LF		\$	-
	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES	22	EA		\$	-
	8384000000-E	450	HP 14 X 73 STEEL PILES	420	LF		\$	-
	8391000000-N	450	STEEL PILE POINTS	22	EA		\$	-
	8475000000-E	460	TWO BAR METAL RAIL	112	LF		\$	-
	8503000000-E	460	CONCRETE BARRIER RAIL	239	LF		\$	-
	8517000000-E	460	1'-2" X 2'-6" CONCRETE PARAPET	120	LF		\$	-
	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	300	TON		\$	-
	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	334	SY		\$	-
	8657000000-N	430	ELASTOMERIC BEARINGS	1	LS		\$	-
			RETAINING WALL #1					
	8802010000-E	SP	SOIL NAIL RETAINING WALLS	1,720	SF		\$	-
	8802015100-N	SP	SOIL NAIL VERIFICATION TESTS	2	EA		\$	-
	8802015110-N	SP	SOIL NAIL PROOF TESTS	4	EA		\$	-
			RETAINING WALL #2					
	8802010000-E	SP	SOIL NAIL RETAINING WALLS	1,720	SF		\$	-
	8802015100-N	SP	SOIL NAIL VERIFICATION TESTS	2	EA		\$	-
	8802015110-N	SP	SOIL NAIL PROOF TESTS	4	EA		\$	-
			RETAINING WALL #3					
	8847000000-E	SP	GENERIC RETAINING WALL ITEM - NON-STANDARD CIP GRAVITY RETAINING WALL	2,935	SF		\$	-
			UTILITY CONSTRUCTION					
	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	62.25	TON		\$	-
	5325600000-E	1510	6" WATER LINE	24	LF		\$	-
	5325800000-E	1510	8" WATER LINE	300	LF		\$	-
	5326200000-E	1510	12" WATER LINE	68.25	LF		\$	-

North Carolina Department of Transportation
Preliminary Estimate

	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	2,175	LB		\$	-
	5540000000-E	1515	6" VALVE	0.75	EA		\$	-
	5558000000-E	1515	12" VALVE	0.75	EA		\$	-
	5571600000-E	1515	6" TAPPING SLEEVE & VALVE	0.75	EA		\$	-
	5589200000-E	1515	2" AIR RELEASE VALVE	0.75	EA		\$	-
	5648000000-N	1515	RELOCATE WATER METER	0.75	EA		\$	-
	5666000000-N	1515	FIRE HYDRANT	0.75	EA		\$	-
	5673000000-E	1515	FIRE HYDRANT LEG	4.5	LF		\$	-
	5686500000-E	1515	WATER SERVICE LINE	69	LF		\$	-
	5709000000-E	1520	3" FORCE MAIN SEWER	442.5	LF		\$	-
	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	600	LB		\$	-
	5798000000-E	1530	ABANDON 3" UTILITY PIPE	459.75	LF		\$	-
	5801000000-E	1530	ABANDON 8" UTILITY PIPE	186	LF		\$	-
	5804000000-E	1530	ABANDON 12" UTILITY PIPE	88.5	LF		\$	-
	5835600000-E	1540	12" ENCASEMENT PIPE	95.25	LF		\$	-
	5835700000-E	1540	16" ENCASEMENT PIPE	78.75	LF		\$	-

Lgth3.2

Contract Cost
E. & C. 16%
Construction Cost

EARTHWORK BALANCE SHEET

Volumes in Cubic Yards

PROJECT: R-5963A

COUNTY : CHATHAM

DATE

3/19/2025

SHEET 1 OF 1 SHEETS

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT EXCAV.	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMBANK. 20%	BORROW	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
L	10+19.74	43+50.	155,547	2,394	1,075	44,471	108,682	13,822	2,394	10,830	15,389	0	95,687	45,546	141,233
L	43+50.	75+78.	76,369	21	775	15,454	60,894	49,288	21	49,262	59,135	0	1,780	16,229	18,009
L	77+20.	78+91.82	0	0	0	0	0	4,141	0	4,141	4,969	4,969	0	0	0
L	80+41.91	111+00.	127,624	1,701	1,225	559	125,364	24,901	1,701	22,775	29,031	0	98,034	1,784	99,818
L	111+00.	134+04.29	41,928	0	2,150	1,916	40,012	39,637	0	39,637	47,564	7,552	0	4,066	4,066
L	135+25.71	165+00.	51,958	295	0	0	51,663	62,721	295	62,352	75,118	23,160	0	0	0
L	165+00.	177+15.3	1,215	0	0	0	1,215	19,329	0	19,329	23,195	21,980	0	0	0
L	177+86.8	179+25.	133	0	0	0	133	14	0	14	17	0	116	0	116
				0	0	0	0		0	0	0	0	0	0	0
Y1	12+39.	29+63.	2,799	0	0	0	2,799	955	0	955	1,146	0	1,653	0	1,653
				0	0	0	0		0	0	0	0	0	0	0
Y7	13+25.	15+71.69	280	0	0	0	280	247	0	247	296	16	0	0	0
Y7	17+21.76	20+30.	520	0	0	0	520	84	0	84	101	0	419	0	419
				0	0	0	0		0	0	0	0	0	0	0
Y10	9+83.81	11+61.	102	0	0	0	102	5,524	0	5,524	6,629	6,527	0	0	0
Y10	12+39.	14+17.58	10,802	0	0	0	10,802	0	0	0	0	0	10,802	0	10,802
				0	0	0	0		0	0	0	0	0	0	0
Y14	11+48.	31+05.	1,561	0	0	0	1,561	2,383	0	2,383	2,860	1,299	0	0	0
				0	0	0	0		0	0	0	0	0	0	0
Y16	10+00.	13+21.	34	0	225	0	34	223	0	223	268	234	0	225	225
				0	0	0	0		0	0	0	0	0	0	0
RBT	10+00.	13+45.57	2,365	0	825	0	2,365	667	0	667	800	0	1,565	825	2,390
PROJECT SUBTOTAL			473,237	4,411	6,275	62,400	406,426	223,936	4,411	218,422	266,518	65,737	210,056	68,675	278,731
LOSS DUE TO CLEARING & GRUBBING			-17,000				-17,000	0				0	-17,000	0	-17,000
ADDITIONAL UNDERCUT TO BE FILLED WITH BORROW					4,100			4,100	0	4,100	4,920	4,920		4,100	4,100
EARTH WASTE TO REPLACE BORROW												-70,657	-70,657	0	-70,657
PROJECT TOTALS			456,237	4,411	10,375	62,400	389,426	228,036	4,411	222,522	271,438	0	122,399	72,775	195,174
ADDITIONAL UNDERCUT TO BE FILLED WITH SELECT GRANULAR MATERIAL - CLASS III					2,000									2,000	2,000
GRAND TOTALS			456,237		12,375							0	122,399	74,775	197,174
SAY			457,000									0			
ESTIMATED SELECT GRANULAR MATERIAL - CLASS III			8,275	CY											
ESTIMATED DRAINAGE DITCH EXCAVATION (DDE)			1,530	CY											
ESTIMATED SHOULDER BORROW			4,900	CY											
ESTIMATED SHALLOW UNDERCUT			1,500	CY											
ESTIMATED CLASS IV SUBGRADE STABILIZATION			7,810	TON											
NOTE: A QUANTITY OF 52,400 CY OF UNCLASSIFIED EXCAVATION - ACCEPTABLE BUT NOT TO BE USED IN THE TOP 3' OF EMBANKMENT OR BACKFILL HAS BEEN MEASURED FROM THE CROSS-SECTIONS															
2,190 CY FROM -L- STA 12+25 TO 12+75 (LT & RT)															
150 CY FROM -L- STA 23+75 TO 26+25 (LT & RT)															
5,310 CY FROM -L- STA 71+75 TO 74+75 (LT & RT)															
36,840 CY FROM -L- STA 82+25 TO 89+25 (LT & RT)															
580 CY FROM -L- STA 103+25 TO 105+25 (LT & RT)															
2,820 CY FROM -L- STA 116+75 TO 119+75 (LT & RT)															
2,570 CY FROM -L- STA 152+75 TO 154+25 (LT & RT)															
1,940 CY FROM -RBT- STA 10+50 TO 12+10 (LT & RT)															



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION



JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

March 7, 2025

MEMORANDUM TO: Reuben Blakley, PE
Division Engineer

ATTENTION: Jeffrey Stroder, PE
Division Project Engineer

FROM:  DS
Matthew J. Alexander, PE
State Geotechnical Engineer  DC6858AD2A2C474...

STATE PROJECT: 48599.1.1 (R-5963A)
COUNTY: CHATHAM
DESCRIPTION: Chatham Park Way from US 15-501 to US 64 Business

SUBJECT: Geotechnical Report – Design and Construction
Recommendations ADDENDUM

The Geotechnical Engineering Unit makes the following recommendation addendum.

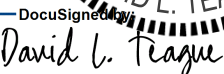
I. Borrow Specifications

A. Rock Swell Factor


Recommend a rock swell factor of 25% for calculation of earthwork quantities.

Respectfully Submitted,



 03/07/2025
David L. Teague, PE
Project Geotechnical Engineer



 03/07/2025
Christina Bruinsma, PG
Project Geological Engineer

Document Not Considered Final Unless All Signatures Are Completed

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING UNIT
1589 MAIL SERVICE CENTER
RALEIGH, NC 27699-1589

Telephone: (919) 707-6850
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1020 BIRCH RIDGE DRIVE
RALEIGH, NC 27610



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING UNIT

Summary of Quantities

WBS Number: 48599.1.1

County: CHATHAM

Project Engineer: DAVID TEAGUE, PE

TIP Number: R-5963A

Field Office / PEF: GEU CONTRACTS

Project Geologist: CHRISTINA BRUINSMA, LG

Description: CHATHAM PARK WAY FROM US 15-501 TO US 64 BUSINESS

Pay Item No.	Pay Item/ Quantity Adjustment	Spec Book Section No. or Special Provision (SP) Reference	Report Section	Alignment	Begin Station	End Station	Quantity	Units / %
These Items Only Impact Earthwork Totals								
N/A	Rock Swell Factor	235 - Embankments	I. A	N/A	N/A	N/A	25	%

CALCULATION OF QUANTITIES

PROJECT TIP NUMBER: R-5963A
CONSTRUCTION WBS NUMBER: 48599.3.2
COUNTY: CHATHAM
FEDERAL AID NUMBER: N/A

TOTAL LENGTH [USE EXACT THREE (3) FIGURES BEYOND DECIMAL]

STA.	<u> 9+91.310 </u>	TO STA.	<u> 177+51.050 </u>	=	<u> 16759.740 </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.

TOTAL LENGTH * = 16,759.740 **LIN. FT. / 5,280 =** 3.174 **MILES**

STRUCTURE LENGTHS

STA.	<u> 75+78.000 </u>	TO STA.	<u> 77+20.000 </u>	=	<u> 142.000 </u>	LIN. FT.
STA.	<u> 134+00.100 </u>	TO STA.	<u> 135+21.520 </u>	=	<u> 121.420 </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.
STA.	<u> </u>	TO STA.	<u> </u>	=	<u> </u>	LIN. FT.

LENGTH OF STRUCTURES * = 263.420 **LIN. FT. / 5,280 =** 0.050 **MILES**

ROADWAY LENGTH (LESS STRUCTURES) = 3.124 **MILES**

NOTE: USED **LANE FOR LENGTH**

*** LENGTH SHOWN TO THREE (3) DECIMAL PLACES USING NORMAL ROUNDING.**

Computed by: <u> Tyler Spring </u> (Please Print Name)	Checked by: <u> Vance Blanton </u> (Please Print Name)
---	---

TOTAL: 1 LS

TOTAL: 1 LS

PROJECT NO.: R-5930A
 COMPUTED BY: TGS
 CHECKED BY:

3/4/2025

SHEET 1 OF 1

EARTHWORK

Shoulder Material

Alignment	Station	Station	Area (sf)	Volume (CY)
L	10+50.00	11+00.00	5.49	10.17
L	11+00.00	13+50.00	6.31	58.43
L	13+50.00	20+00.00	7.36	177.19
L	20+00.00	42+00.00	6.36	518.22
L	42+00.00	44+50.00	2.93	27.13
L	44+50.00	49+50.00	6.36	117.78
L	49+50.00	53+00.00	5.16	66.89
L	53+00.00	54+00.00	6.36	23.56
L	54+00.00	57+00.00	2.93	32.56
L	57+00.00	61+50.00	6.36	106.00
L	61+50.00	64+50.00	2.93	32.56
L	64+50.00	72+50.00	6.36	188.44
L	72+50.00	75+78.00	7.35	89.29
L	77+20.00	78+91.82	7.35	46.77
L	80+41.91	114+00.00	6.36	791.02
L	114+00.00	116+50.00	7.36	68.15
L	116+50.00	119+50.00	4.06	45.11
L	119+50.00	126+00.00	5.16	124.22
L	126+00.00	134+04.29	7.35	218.95
L	135+25.71	148+50.00	7.35	360.50
L	148+50.00	151+50.00	5.16	57.33
L	151+50.00	177+00.00	7.35	694.17
Y1	12+39.00	20+00.00	6.99	197.01
Y1	20+00.00	21+50.00	5.10	28.33
Y1	21+50.00	30+00.00	6.99	220.06
Y7	13+50.00	14+50.00	4.99	18.48
Y7	14+50.00	15+00.00	4.62	8.56
Y7	15+00.00	15+71.69	3.30	8.76
Y7	17+21.26	18+50.00	3.30	15.73
Y7	18+50.00	20+30.00	4.99	33.27
Y10	10+20.00	11+50.00	3.35	16.13
Y10	12+50.00	13+90.00	3.35	17.37
Y14	11+50.00	15+75.00	6.71	105.62
Y14	15+75.00	19+50.00	5.86	81.39
Y14	19+50.00	21+00.00	4.20	23.33
Y14	22+50.00	25+50.00	4.20	46.67
Y14	25+50.00	26+50.00	5.86	21.70
Y14	26+50.00	31+00.00	6.71	111.83
Y16	10+50.00	11+50.00	2.34	8.67
Y16	11+50.00	13+21.00	4.79	30.34
RBT	10+00.00	10+40.00	5.15	7.63
RBT	10+40.00	11+60.00	2.59	11.51
RBT	11+60.00	12+00.00	5.15	7.63
RBT	12+00.00	13+40.00	2.59	13.43
			TOTAL	4887.9
			SAY	4,900

R-5963A ROCK EXCAVATION AVERAGE END AREAS

[illegible][illegible][illegible]

[illegible]

SEALING ABANDONED WELLS

GEOTECH REPORT DATED 11/25/24 RECOMMENDED

2 EACH

SAY 2 EA

UNDERCUT

GEOTECHNICAL ENGINEERING REPORT DATED 11/25/24 RECOMMENDED

850 CY UNDERCUT FOR EMBANKMENT STABILITY

4100 CY GRADE POINT UNDERCUT

5425 UNDERCUT FOR SUBGRADE STABILITY

2000 CY CONTINGENCY

TOTAL 12,375 CY

PROJECT NO.:
COMPUTED BY:
CHECKED BY:

R-5963A
TGS 2/12/2025

SHEET OF
SECTION: 200 OR 226

SUPPLEMENTARY CLEARING AND GRUBBING

CLEARING AND GRUBBING		SUPPLEMENTARY CLEARING AND GRUBBING	
0 THRU 10 ACRES	=	1 ACRES	
11 THRU 25 ACRES	=	2 ACRES	
26 THRU 50 ACRES	=	3 ACRES	
51 THRU 80 ACRES	=	4 ACRES	
80 ACRES OR MORE	=	5 ACRES	
ACRES SUPPLEMENTARY CLEARING AND GRUBBING			<u>3 ACRES</u>

EMBANKMENT SETTLEMENT GAUGES

GEOTECH REPORT DATED 11/25/24 RECOMMENDED

5 EACH

SAY 5 EA

(FILL IN THE BLANK FOR 'ASPHALT' OR 'CONCRETE' PAVEMENT)

[illegible]

SECTION: 260

***SEE DESIGN MANUAL, PART I, 11-1A**

SELECT GRANULAR MATERIAL

GEOTECHNICAL ENGINEERING REPORT DATED 11/25/24

RECOMMENDED 850 CY TO BACKFILL UNDERCUT FOR EMBANKMENT STABILITY

AND 5425 CY TO BACKFILL UNDERCUT FOR SUBGRADE STABILITY

TOTAL SELECT GRANULAR MATERIAL = 850 CY + 5425 CY = 6275 CY

SAY 6275 CY

SELECT GRANULAR MATERIAL, CLASS III

GEOTECHNICAL ENGINEERING REPORT DATED 11/25/24

RECOMMENDED 2000 CY AS A CONTINGENCY ITEM

SAY 2000 CY

GEOTEXTILE FOR SOIL STABILIZATION

GEOTECHNICAL ENGINEERING REPORT DATED 11/25/24 RECOMMENDED 7425 SY

SAY 7425 SY FOR ROADWAY

4600 SY FROM EROSION CONTROL

SAY 4600 SY

GEOTEXTILE FOR ROCK EMBANKMENTS

GEOTECH REPORT DATED 11/25/24 RECOMMENDED

3180 SY FOR ROCK EMBANKMENTS

SAY 3180 SY

SHEET OF

TYPE I BRIDGE APPROACH FILL

1 LS AT -L- STA. 135+00.00 (RIGHT) (PER GEOTECH FOUNDATION RECS DATED 1/13/25)

CHECKED BY:

ROCK EMBANKMENTS

GEOTECH REPORT DATED 11/25/24 RECOMMENDED

16,640 TON SELECT MATERIAL, CLASS VII FOR ROCK EMBANKMENTS

2,380 TON RIP RAP CLASS A (SEE RIP RAP QUANTITY SHEET)

2,380 TON RIP RAP CLASS B (SEE RIP RAP QUANTITY SHEET)

1,730 TON SELECT MATERIAL, CLASS VI FOR ROCK EMBANKMENTS

3,180 SY GEOTEXTILE FOR EMBANKMENTS

(SEE GEOTEXTILE FOR ROCK EMBANKMENTS QUANTITY SHEET)

PROJECT NO. :
COMPUTED BY:
CHECKED BY:

R-5963A
TGS 2/26/2025

SHEET OF
SECTION: 300

FOUNDATION CONDITIONING MATERIAL MINOR STRUCTURES

$$\begin{array}{rclclcl} \underline{26076} & \text{LIN. FT} & \times & 0.106 & = & \underline{2764.06} \text{ TONS} \\ & & & & \text{SAY} & \underline{2800} \text{ TONS} \\ & & & \text{FOR UTILITIES:} & & 93.75 \text{ TONS} \\ & & & \text{SAY} & & \underline{100} \text{ TONS} \end{array}$$

FOUNDATION CONDITIONING GEOTEXTILE

$$\begin{array}{rclclcl} \underline{26076} & \text{LIN. FT} & \times & 6 \text{ FT} / 18 & = & \underline{8692.00} \text{ SY} \\ & & & & \text{SAY} & \underline{8700} \text{ SY} \\ & & & \text{FOR UTILITIES:} & & 18.75 \text{ TONS} \\ & & & \text{SAY} & & \underline{20} \text{ TONS} \end{array}$$

SHEET OF
SECTION: 500

FINE GRADING

NOTE: THE WIDTH IS MEASURED FROM EOP TO EOP

[illegible]

SHEET OF
SECTION: 501

SUBGRADE STABILIZATION AREA

[illegible]

LIME TREATED SOIL (SLURRY METHOD)

GEOTECH REPORT DATED 11/11/24 RECOMMENDED

HALF OF THE SUBGRADE ON -L- BE TREATED WITH LIME

TOTAL SUBGRADE STABILIZATION AREA = 113,000 SY

1/2 SUBGRADE STABILIZATION AREA = 56,500 SY

SAY 56,500 SY LIME TREATED SOIL (SLURRY METHOD)

LIME TONS = 56,500 SY x 24 LBS/SY x 1 TON / 2000 LBS = 678 TONS

SAY 700 TONS LIME FOR LIME TREATED SOIL

SHALLOW UNDERCUT

GEOTECH REPORT DATED 11/25/24 RECOMMENDED

750 CY SHALLOW UNDERCUT AS A CONTINGENCY

PAVEMENT AND SUBGRADE REPORT DATED 11/11/24 RECOMMENDED

750 CY SHALLOW UNDERCUT AS A CONTINGENCY

$750\text{ CY} + 750\text{ CY} = 1500\text{ CY}$

SAY 1500 CY

CLASS IV SUBGRADE STABILIZATION

GEOTECH REPORT DATED 11/25/24 RECOMMENDED

1500 TON CLASS IV SUBGRADE STABILIZATION AS A CONTINGENCY

PAVEMENT AND SUBGRADE REPORT DATED 11/11/24 RECOMMENDED

6310 TON CLASS IV SUBGRADE STABILIZATION

1500 TON + 6310 TON =

SAY 7,810 TON

GEOTEXTILE FOR SUBGRADE STABILIZATION

RECOMMENDATIONS FOR PAVEMENT AND SUBGRADE REPORT DATED 11/11/24

RECOMMENDED 12,880 SY

GEOTECHNICAL ROADWAY RECOMMENDATION REPORT DATED 11/25/24

RECOMMENDED 2,250 SY

12,880 SY + 2,250 SY = 15,130

SAY 15,130 SY

STABILZER AGGREGATE

STRUCTURES GEOTECH REPORT DATED 11/11/24 RECOMMENDED

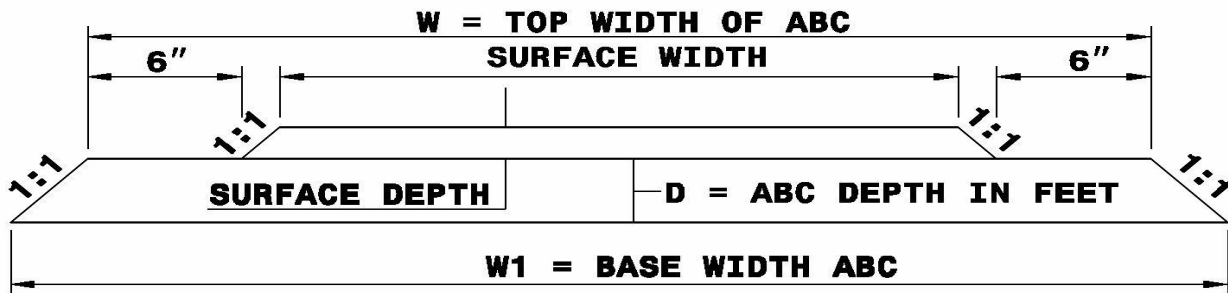
500 TON

SAY 500 TON

PROJECT NO.:
COMPUTED BY:
CHECKED BY:

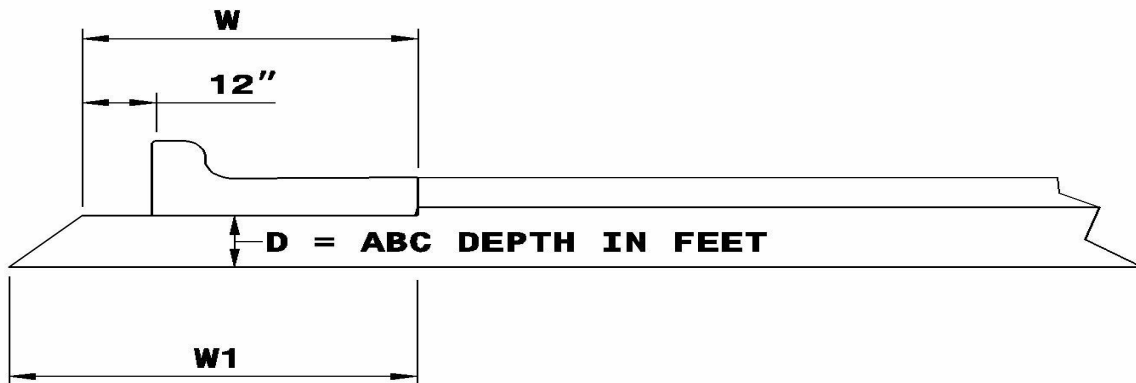
SHEET OF
SECTION: 520

AGGREGATE BASE COURSE



CALCULATE ABC:

$$\text{ABC} = \frac{\text{LENGTH} \times ((W+W1)/2) \times 1.5(D) \times 2700\# / \text{YD}^3}{27 \text{ FT}^3 / \text{YD}^3 \times 2000\# / \text{TON}} = \underline{\hspace{2cm}} \text{ TONS}$$



CALCULATE ABC:

$$\text{ABC} = \frac{\text{LENGTH} \times ((W+W1))/2 \times 1.5(D) \times 2700\# / \text{YD}^3}{27 \text{ FT}^3 / \text{YD}^3 \times 2000\# / \text{TON}} = \underline{\hspace{2cm}} \text{ TONS}$$

NOTE: WHEN ALL CALCULATIONS ARE COMPLETE AND TOTALED SEE THE ROADWAY DESIGN MANUAL, PART I, 11-B".

2/17/2025

SHEET OF

SECTION: 520

AGGREGATE BASE COURSE

[illegible]

SOIL CEMENT BASE

GEOTECH REPORT DATED 11/11/24 RECOMMENDED

HALF OF THE SUBGRADE ON -L- BE TREATED WITH CEMENT

TOTAL SUBGRADE STABILIZATION AREA = 113,000 SY

1/2 SUBGRADE STABILIZATION AREA = 56,500 SY

SAY 56,500 SY SOIL CEMENT BASE

PORTLAND CEMENT TONS = 56,500 SY x 56 LBS/SY x 1 TON / 2000 LBS = 1582 TONS

SAY 1600 TONS PORTLAND CEMENT FOR CEMENT BASE

CHECKED BY:

TGS

12/30/2024

SHEET OF

SECTION: 545

INCIDENTAL STONE BASE

[illegible]

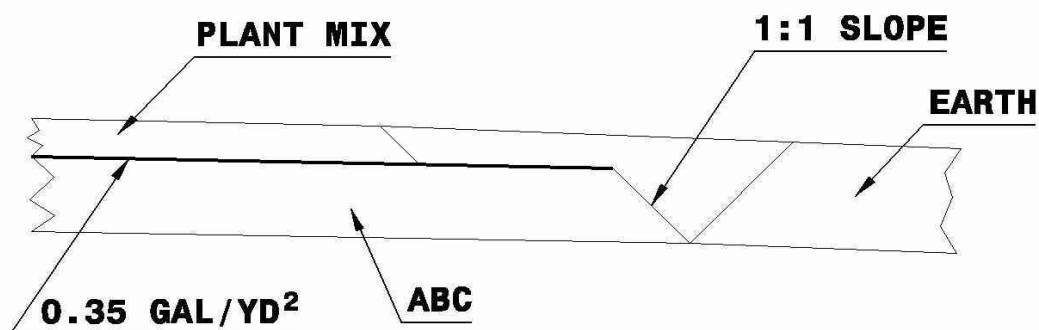
PROJECT NO.:
COMPUTED BY:
CHECKED BY:

R-5963A
TGS

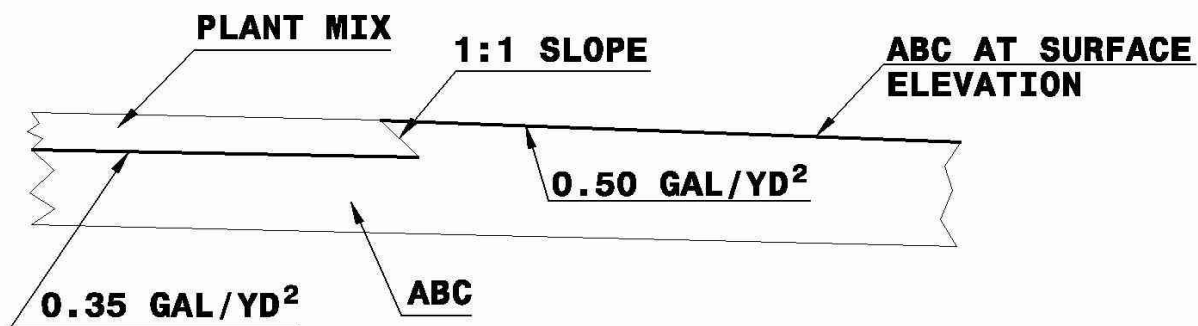
SHEET OF
SECTION: 600

PRIME COAT

SOIL TYPE BASE COURSE		YD ²	X	0.30		GAL
ABC	<u>160</u>	YD ²	X	0.35	<u>56</u>	GAL
ABC AT SURFACE		YD ²	X	0.50		GAL



ALTERNATE 1



ALTERNATE 2

**METHODS SHOWING PLACEMENT
OF PRIME COAT OVER ABC**

SECTION: 607

SECTION: 607

SECTION: 607

[illegible]

[illegible]

calc: TGS 2/13/25
checked:

[illegible][illegible]

** Asphalt Buildup shapes taken from cross sections in microstation

calc: TGS 2/13/25
checked:

-Y14-

Engineer's Engineer's Design / Engineer's TIN		
-Y14- Surface Course	Wedging	
	SF	CY
11+48	0.00	
12+00	2.53	2.4
12+50	5.41	7.4
13+00	5.67	10.3
13+50	7.87	12.5
14+00	5.89	12.7
14+50	6.99	11.9
15+00	6.37	12.4
15+50	6.47	11.9
15+75	6.85	6.2
16+00	6.85	6.3
16+50	6.80	12.6
17+00	6.81	12.6
17+26	7.32	6.8
17+50	7.41	6.5
18+00	7.83	14.1
18+50	8.24	14.9
19+00	8.69	15.7
19+35	9.17	11.6
19+50	9.07	5.1
20+00	9.60	17.3
20+50	11.22	19.3
20+60	11.21	4.2
20+90	11.69	12.7
21+00	11.85	4.4
21+50	8.46	18.8
22+00	9.36	16.5
22+50	8.52	16.6
22+80	8.99	9.7
23+00	8.24	6.4
23+16	8.24	4.9
23+50	7.97	10.2
23+83	7.88	9.7
24+00	7.77	4.9
24+50	7.13	13.8
24+92	7.11	11.1
25+00	7.75	2.2
25+50	6.88	13.5
26+00	6.86	12.7
26+27	6.88	6.9
26+50	6.84	5.8
26+90	6.14	9.6
27+00	5.73	2.2
27+50	6.41	11.2
27+76	6.36	6.1
28+00	6.54	5.7
28+50	6.49	12.1
28+90	5.71	9.0
29+00	5.66	2.1
29+50	8.14	12.8
30+00	7.29	14.3

Engineer's Engineer's Design / Engineer's TIN		
-Y14- Interm. Course	Wedging	
	SF	CY
11+48	0.00	
12+00	0.00	0.0
12+50	0.28	0.3
13+00	2.48	2.6
13+50	3.90	5.9
14+00	4.60	7.9
14+50	5.18	9.1
15+00	5.24	9.6
15+50	3.77	8.3
15+75	3.29	3.3
16+00	3.42	3.1
16+50	3.83	6.7
17+00	0.23	3.8
17+26	1.68	0.9
17+50	3.73	2.4
18+00	7.97	10.8
18+50	10.98	17.5
19+00	11.58	20.9
19+35	12.23	15.4
19+50	12.10	6.8
20+00	12.80	23.1
20+50	11.79	22.8
20+60	9.20	3.9
20+90	5.23	8.0
21+00	4.88	1.9
21+50	3.24	7.5
22+00	2.94	5.7
22+50	3.07	5.6
22+80	3.06	3.4
23+00	2.91	2.2
23+16	2.99	1.7
23+50	2.65	3.6
23+83	1.70	2.7
24+00	1.07	0.9
24+50	1.29	2.2
24+92	5.38	5.2
25+00	7.50	1.9
25+50	7.45	13.8
26+00	5.48	12.0
26+27	4.39	4.9
26+50	3.08	3.2
26+90	1.88	3.7
27+00	1.98	0.7
27+50	3.54	5.1
27+76	3.63	3.5
28+00	4.04	3.4
28+50	4.52	7.9
28+90	3.92	6.3
29+00	3.74	1.4
29+50	3.87	7.0
30+00	3.54	6.9

30+50	6.11	12.4
30+60	3.88	1.9
31+05	0.00	3.2
Sub Total		518.1
Total Tons =	1044.58	TON
Say =	1045.00	TON

30+50	1.71	4.9
30+60	0.13	0.3
31+05	0.00	0.1
Sub Total		322.5
Total Tons =	661.79	TON
Say =	662.00	TON

calc: TGS 2/13/25
checked:

[illegible]

Engineer's		
Engineer's Design / Engineer's TIN		
	Wedging	
-Y7- Interm. Course	SF	CY
12+49	4.77	
13+00	0.63	5.1
13+21	0.00	0.2
		0.0
		0.0
		0.0
		0.0
		0.0
		0.0
		0.0
		0.0
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		0.0
		0.0
		0.0
		0.0
		0.0
		0.0
		0.0
		0.0
	Sub Total	5.3
Total Tons =	10.97	TON
Say =	11.00	TON

PROJECT NO.:
COMPUTED BY:
CHECKED BY:

R-5963A
AMM
TGS
2/13/2025

SHEET OF
SECTION: 620

ASPHALT BINDER FOR PLANT MIX

GRADE PG 64-22

SA-1		TONS	X	0.068	=		TONS
S4.75A		TONS	X	0.070	=		TONS
S9.5B		TONS	X	0.065	=		TONS
S9.5C	24,000	TONS	X	0.059	=	1,416.00	TONS
I19.0C	27,000	TONS	X	0.048	=	1,296.00	TONS
B25.0C	22,000	TONS	X	0.045	=	990.00	TONS
PADC, TYPE P-57		TONS	X	0.030	=		TONS
PADC, TYPE P-78M		TONS	X	0.030	=		TONS
PATCHING EXISTING PAVEMENT		TONS	X	0.048	=		TONS

SUBTOTAL TONS ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22			=	<u>3,702.00</u>	TONS
---	--	--	---	-----------------	------

TOTAL TONS ASPHALT BINDER FOR PLANT MIX			=	<u>3,702.00</u>	TONS
			SAY	<u>3,705</u>	TONS

THIS SHEET IS SHOWING RATES FROM THE 2025 QMS ASPHALT MANUAL

LINE	STATION	PIPE SIZE (IN)	LENGTH	AREA FROM CADD OR WIDTH	SQUARE FEET
Y1	23+09	30	32	9.08	291
Y1	29+51	18	32	7.83	251
Y7	15+65	24	26	8.50	221
Y7	16+04	15	25	7.58	190
Y7	17+39	18	25	7.83	196
Y14	19+62	18	37	7.83	290
Y14	22+45	18	39	7.83	306
				TOTAL IN FT ²	1,743
				SAY	1,750
TOTAL TONAGE					
BASE	=(A X D X 114 LBS/SY/IN)/(9 SF X 2000 LBS/TON)	121.92			
BINDER	= TONS ASPHALT X 0.045	5.49	TOTAL	127.40	
			SAY	130.00	TONS

[illegible]

Control-of-Access Markers

TOTAL (EA): 199

SAY 199 Each

Right-of-Way Markers

TOTAL (EA): 4

SAY 4 Each

PROJECT NO.: R-5963ASHEET OF
SECTION: 815**SUBSURFACE DRAINS**

SUBDRAIN EXCAVATION (USE 6' DEPTH FOR PROOF ROLLING AND 4' DEPTH ELSEWHERE) 4170.0 YD³

GEOTEXTILE FOR SUBSURFACE DRAINS 12400 YD²

SUBDRAIN COARSE AGGREGATE (USE 3' DEPTH) 2090.0 YD³

6" PERFORATED SUBDRAIN PIPE 12400 LIN. FT.

6" OUTLET PIPE (6 LINEAR FT. PER PIPE OUTLET) 150 LIN. FT.

SUBDRAIN PIPE OUTLET (USE 1 PER 500' OF PIPE) 25 EACH

EXCAVATION 12400 LIN. FT. x 6 DEPTH x 0.056 = 4166.4 YD³

AGGREGATE 12400 LIN. FT. x 3' DEPTH x 0.056 = 2083.2 YD³

NOTE: USE 6" SUBDRAIN PIPE UNLESS ANOTHER SIZE IS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL UNIT.

Calculated by : TGS 2/17/25

Checked by :

[illegible]

BLOTTING SAND

GEOTECHNICAL ENGINEERING REPORT DATED 11/11/24 RECOMMENDED

20 TON AS A CONTINGENCY ITEM

SAY 20 TON

SHEET OF
SECT. 846

[illegible]

[illegible]

SHEET OF
SECT. 846

[illegible]

SHEET OF
SECT. 846

[illegible]

SECTION: 848

6" CONCRETE DRIVEWAY

LINE	STATION	LOCATION	SQUARE FT	SQUARE YARDS
Y14	19+40	RT	495	55.00
Y14	20+60	RT	529	58.78
Y14	22+80	RT	474	52.67
Y14	23+15	RT	445	49.44
Y14	23+50	LT	485	53.89
Y14	24+90	LT	372	41.33
Y14	26+25	LT	529	58.78
			TOTAL	369.8888889
			SAY	370

[illegible]

[illegible]

[illegible]

Summary

Line Item	Des	Sec No.	Description	Quantity	Unit
4025000000-E		901	CONTRACTOR FURNISHED, TYPE A SIGN	2,970	SF
4025000000-E		901	CONTRACTOR FURNISHED, TYPE B SIGN	165	SF
4025000000-E		901	CONTRACTOR FURNISHED, TYPE D SIGN	203	SF
4025000000-E		901	CONTRACTOR FURNISHED, TYPE E SIGN	985	SF
4025000000-E		901	CONTRACTOR FURNISHED, TYPE F SIGN	1,114	SF
4048000000-E		902	REINFORCED CONCRETE SIGN FOUNDATIONS	9	CY
4060000000-E		903	SUPPORTS, BREAKAWAY STEEL BEAM	8,593	LB
		-	TYPE D U-CHANNEL POSTS	518	LF
		-	TYPE E U-CHANNEL POSTS	2,721	LF
		-	TYPE F U-CHANNEL POSTS	1,676	LF
4072000000-E		903	SUPPORTS, 3-LB STEEL U-CHANNEL	4,915	LF
4096000000-N		904	SIGN ERECTION, TYPE D	13	EA
4102000000-N		904	SIGN ERECTION, TYPE E	125	EA
4108000000-N		904	SIGN ERECTION, TYPE F	63	EA
4110000000-N		904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	20	EA
4110000000-N		904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	6	EA
411610000-N		904	SIGN ERECTION, RELOCATE TYPE F (GROUND MOUNTED)	33	EA
4152000000-N		907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	6	EA
4155000000-N		907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	24	EA
4236000000-N		907	DISPOSAL OF SIGN, A or B (GROUND MOUNTED)	12	EA
4238000000-N		907	DISPOSAL OF SIGN, D, E OR F	33	EA

North Carolina Department of Transportation
Preliminary Estimate

TIP No. R-5963A
Location

Final

County: Chatham

Prepared By: Adam Miller

	4400000000-E	1110	Work Zone Signs (Stationary)	144	SF		\$ -
	4405000000-E	1110	Work Zone Signs (Portable)	768	SF		\$ -
	4410000000-E	1110	Work Zone Signs (Barricade Mounted)	368	SF		\$ -
	4430000000-E	1130	Drums	93	EA		\$ -
	4435000000-E	1135	Cones	339	EA		\$ -
	4445000000-E	1145	Barricades (Type III)	72	LF		\$ -
	4455000000-E	1150	Flagger	0	DAY		\$ -
	4510000000-N	1190	Law Enforcement	0	HR		\$ -
	4516000000-N	1180	Skinny Drums	131	EA		\$ -
	4650000000-N	1251	Temporary Raised Pavement Markers	71	EA		\$ -
	4810000000-E	1205	Paint Pavement Marking Lines (4")	88250	LF		\$ -
	4820000000-E	1205	Paint Pavement Marking Lines (8")	2500	LF		\$ -
	4835000000-E	1205	Paint Pavement Marking Lines (24")	450	LF		\$ -
	4845000000-E	1205	Paint Pavement Marking Symbol	50	LF		\$ -

Total: \$ -

2024 English Standards & Quantity Estimates

CONTRACT # 48599.1.1

TIP # R-5963A

PRIMARY ROUTE? NO

COUNTY Chatham

LETTING 5/20/2025

DIV. 8

MANAGEMENT UNIT DDRL

MILEAGE 3.173 miles

Name: David Hursey, PE

Date: 02/13/25

Project Engineer: Vance Blanton, PE

STANDARDS NEEDED:

1605.01 (TSF)

1606.01 (SSCF)

1607.01 (GCE)

1622.01 (TSDN)

1630.05 (T.DIV)

1631.01 (MATT)

1632.02 (RIST-B)

1632.03 (RIST-C)

1633.01 (SC-A)

1633.02 (SC-B)

1635.02 (PIST-B)

1640.01 (BAFFLE)

DETAILS NEEDED:

Concrete Washout Structure

SUMMARY SHEETS NEEDED:

-Matting Summary Sheet

-Stabilization Guidelines

REFORESTATION SHEETS:

OF YEARS FOR PROJECT CONSTRUCTION

2.5 YRS

MAINTENANCE FACTOR

2.25

CONSTRUCTION ENTRANCES

OF ENTRANCES: 8

FILTRATION GEOTEXTILE REQUIRED 600 SY

CLASS A STONE REQUIRED 200 TONS

SPECIAL STILLING BASINS

NO. OF DRILLED PIERS 0

OF SPECIAL STILLING BASINS 0 EA

FILTRATION GEOTEXTILE REQUIRED 0 SY

SEDIMENT CONTROL STONE 0 TON

OF SILT CHECKS TYPE A with MATTING & FLOCCULANT

186

MATTING FOR EROSION CONTROL REQUIRED 930 SY

FLOCCULANT REQUIRED 1256 LB

OF WATTLES WITHOUT FLOCCULANT

0

OF COIR FIBER WATTLES WITHOUT FLOCCULANT

154

OF TEMPORARY STREAM CROSSINGS

FILTRATION GEOTEXTILE REQUIRED 0 SY

TEMPORARY PIPE FOR STREAM CROSSING 0 LF

SEDIMENT CONTROL STONE 0 TON

EROSION CONTROL STONE, CLASS B 0 TON

OF CSX RAILROAD BRIDGE CROSSINGS

0

TEMPORARY SILT FENCE REQUIRED 0 LF

FILTRATION GEOTEXTILE REQUIRED 0 SY

ADDITIONAL PROJECT INFORMATION

RIPARIAN BUFFERS (50 FT.) ON PROJECT YES

HIGH QUALITY WATER (HQW) ON PROJECT NO

DESIGN STANDARDS IN SENSITIVE WATERSHEDS (DSSW) NO

303(d) STREAM FOR CONSTRUCTION-RELATED TURBIDITY NO

BORROW EXCAVATION QUANTITY 0 CY

CRIMPING SP NEEDED ON PROJECT: YES

CCPCUA PERMIT AND SP REQUIRED : NO

PROJECT IN FALLS LAKE WATERSHED NO

PROJECT IN JORDAN LAKE WATERSHED YES

EARTHEN DAM WITH SKIMMER USED NO

AESTHETIC LITTER PICKUP REQUESTED NO

COIR FIBER WATTLE SILT FENCE BREAK USED NO

SPECIAL PROVISIONS NEEDED:

1. SEEDMIX TYPE: East

18. TEMP. DIVERSION

3. NUTRIENT MANAGEMENT TRAINING (add above Temp. Seeding)

20. SAFETY FENCE

4. NATIVE SEEDING & MULCHING (add above Temp. Seeding): West

39. CONC. WASHOUT STR.

5. CRIMPING (add above Temp. Seeding)

13. ESA

15. MINIMIZE

16. MATERIALS MANAGEMENT

17. WASTE/BORROW

Project Quantities

ITEM NUMBER	SECTION	TRNS-PORT ITEM DESCRIPTION	QUANTITY	UNIT
0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	4600	SY
1077000000-E	1005	#57 STONE	0	TON
3628000000-E	876	RIP RAP, CLASS I	0	TON
3635000000-E	876	RIP RAP, CLASS II	0	TON
3642000000-E	876	RIP RAP, CLASS A	0	TON
3649000000-E	876	RIP RAP, CLASS B	0	TON
3651000000-E	SP	BOULDERS	0	TON
3656000000-E	876	GEOTEXTILE FOR DRAINAGE	1350	SY
6000000000-E	1605	TEMPORARY SILT FENCE	50480	LF
6006000000-E	1610	EROSION CONTROL STONE, CLASS A	2590	TON
6009000000-E	1610	EROSION CONTROL STONE, CLASS B	7780	TON
6012000000-E	1610	SEDIMENT CONTROL STONE	6325	TON
6015000000-E	1615	TEMPORARY MULCHING	57.00	ACR
6018000000-E	1620	SEED FOR TEMPORARY SEEDING	2400.00	LB
6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	12.00	TON
6024000000-E	1622	TEMPORARY SLOPE DRAINS	2835	LF
6029000000-E	SP	SAFETY FENCE	2720	LF
6030000000-E	1630	SILT EXCAVATION	18190	CY
6036000000-E	1631	MATTING FOR EROSION CONTROL	67700	SY+DITCH
6037000000-E	1629	COIR FIBER MAT	43450	SY
6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT - (TYPE 1)	0	SY
6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT - (TYPE 2)	0	SY
6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT - (TYPE 3)	0	SY
6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT - (TYPE 4)	0	SY
6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT - (TYPE 5)	0	SY
6042000000-E	1632	1/4" HARDWARE CLOTH	12300	LF
6043000000-E	1644	LOW PERMEABILITY GEOTEXTILE	4600	SY
6045000000-E	SP	*** TEMPORARY PIPE - (15")	0	LF
6045000000-E	SP	*** TEMPORARY PIPE - (18")	0	LF
6045000000-E	SP	*** TEMPORARY PIPE - (24")	0	LF
6045000000-E	SP	*** TEMPORARY PIPE - (36")	0	LF
6046000000-E	1636	TEMPORARY PIPE FOR STREAM CROSSING	0	LF
6048000000-E	SP	FLOATING TURBIDITY CURTAIN	0	SY
6069000000-E	1638	STILLING BASINS	0	CY
6070000000-N	1639	SPECIAL STILLING BASINS	0	EA
6071010000-E	1642	WATTLE	0	LF
6071012000-E	1642	COIR FIBER WATTLE	6570	LF
6071013000-E	1642	WATTLE BARRIER	0	LF
6071014000-E	1642	COIR FIBER WATTLE BARRIER	930	LF
6071002000-E	1642	FLOCCULANT	3585	LB
6071030000-E	1640	COIR FIBER BAFFLE	11310	LF
6071050000-E	1644	*** SKIMMER - (1-1/2")	0	EA
6071050000-E	1644	*** SKIMMER - (2")	0	EA
6071050000-E	1644	*** SKIMMER - (2-1/2")	0	EA
6071050000-E	1644	*** SKIMMER - (3")	0	EA
6071050000-E	1644	*** SKIMMER - (4")	0	EA
6071050000-E	1644	*** SKIMMER - (5")	0	EA
6082000000-E	1657	COMPOST BLANKET	0	ACR
6084000000-E	1660	SEEDING AND MULCHING	48.00	ACR
6087000000-E	1660	MOWING	48.00	ACR
6090000000-E	1661	SEED FOR REPAIR SEEDING	600.00	LB
6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	2.25	TON
6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	1150.00	LB
6105000000-E	1663	WATER	0.0	M/G
6108000000-E	1665	FERTILIZER TOPDRESSING	34.25	TON
6111000000-E	SP	IMPERVIOUS DIKE	0	LF
6114500000-N	1667	SPECIALIZED HAND MOWING	10	MHR
6117000000-N	1675	RESPONSE FOR EROSION CONTROL	125	EA
6118000000-N	SP	ROOTWADS	0	EA
6120000000-E	SP	CULVERT DIVERSION CHANNEL	0	CY
6123000000-E	1670	REFORESTATION	0.00	ACR
6126000000-E	SP	STREAMBANK REFORESTATION	0.00	ACR
6129000000-E	SP	WETLAND REFORESTATION	0	ACR
6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2	EA
6114800000-N	SP	MANUAL LITTER REMOVAL	0	MHR
6114900000-E	SP	LITTER DISPOSAL	0	TON
6115000000-E	SP	MECHANICAL LITTER REMOVAL	0	SMI
6132000000-E	SP	GENERIC EROSION CONTROL ITEM - FABRIC INSERT INLET PROTECTION - (TYPE 1)	0	EA
6132000000-E	SP	GENERIC EROSION CONTROL ITEM - FABRIC INSERT INLET PROTECTION - (TYPE 2)	0	EA
6125000000-E	SP	GENERIC EROSION CONTROL ITEM - FABRIC INSERT INLET PROTECTION CLEANOUT	0	EA
6135000000-E	SP	GENERIC EROSION CONTROL ITEM - DISKING	0	ACR
6135000000-E	SP	GENERIC EROSION CONTROL ITEM - RIPPING	0	ACR
6135000000-E	SP	GENERIC EROSION CONTROL ITEM - WETLAND GRASS PLANTING	0	ACR
6132000000-E	SP	GENERIC EROSION CONTROL ITEM - PREFABRICATED CONCRETE WASHOUT	12	EA

ITS and Signals Unit Engineer's Estimate

ITEM NUMBER	SECTION	UNITS	DESCRIPTION	08-0525	08-U0524	TOTAL	Unit Cost	TOTAL COST
7048500000-E	1705	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION WITH COUNTDOWN)	8	8	16	\$1,500.00	\$24,000.00
7060000000-E	1705	LF	SIGNAL CABLE	3570	3355	6925	\$4.00	\$27,700.00
7120000000-E	1705	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	14	8	22	\$1,200.00	\$26,400.00
7132000000-E	1705	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)		4	4	\$1,400.00	\$5,600.00
7144000000-E	1705	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)		2	2	\$1,700.00	\$3,400.00
7288000000-E	1715	LF	PAVED TRENCHING (2 conduits, 2 inch)	230	65	295	\$18.00	\$5,310.00
7300000000-E	1715	LF	UNPAVED TRENCHING (2 conduits, 2 inch)	690	300	990	\$18.00	\$17,820.00
7301000000-E	1715	LF	DIRECTIONAL DRILL (2 conduits, 2 inch)	350	575	925	\$36.00	\$33,300.00
7324000000-N	1716	EA	JUNCTION BOX (STANDARD SIZE)	6	9	15	\$700.00	\$10,500.00
7348000000-N	1716	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	4	4	8	\$1,100.00	\$8,800.00
7444000000-E	1725	LF	INDUCTIVE LOOP SAWCUT	1500	1310	2810	\$12.00	\$33,720.00
7456000000-E	1726	LF	LEAD-IN CABLE (14-2)	4360	3010	7370	\$3.00	\$22,110.00
7588000000-N	SP	EA	METAL POLE WITH SINGLE MAST ARM	4	4	8	\$22,000.00	\$176,000.00
7613000000-N	SP	EA	SOIL TEST	4	4	8	\$1,900.00	\$15,200.00
7614100000-E	SP	CY	DRILLED PIER FOUNDATION*	22	22	44	\$2,000.00	\$88,000.00
7631000000-N	SP	EA	MAST ARM WITH METAL POLE DESIGN	4	4	8	\$1,000.00	\$8,000.00
7636000000-N	1745	EA	SIGN FOR SIGNALS	11	10	21	\$500.00	\$10,500.00
7642200000-N	1743	EA	TYPE II PEDESTAL WITH FOUNDATION	6	5	11	\$3,800.00	\$41,800.00
7684000000-N	1750	EA	SIGNAL CABINET FOUNDATION	1	1	2	\$3,000.00	\$6,000.00
7744000000-N	1751	EA	DETECTOR CARD (TYPE 170)	12	9	21	\$300.00	\$6,300.00
7696000000-N	1751	EA	CONTROLLER WITH CABINET (TYPE *****2070LX, BASE MOUNTED)	1	1	2	\$28,000.00	\$56,000.00
7901000000-N	1753	EA	CABINET BASE EXTENDER	1	1	2	\$800.00	\$1,600.00
7980000000-N	SP	EA	POWDER COAT FOR SINGLE MAST ARM WITH METAL POLE	4	4	8	\$2,600.00	\$20,800.00
7980000000-N	SP	EA	POWDER COAT FOR PEDESTAL	6	6	12	\$500.00	\$6,000.00
								\$654,860.00

The engineer's opinion of possible construction cost shown above is representative of costs we have recently seen on similar projects in North Carolina and may not represent actual bid or construction fees. Please note that we cannot control contractors' construction means and/or methods, and thus cannot accurately predict specific costs. If a more exact construction estimate is needed, please allow us to engage the services of a professional construction estimator.



Project: East Rocky River Road - Hawk Estimate
Prepared for: Town of Davidson
By: Kimley-Horn and Associates, Inc.
Date: 1/25/2022

Opinion of Probable Construction Cost

Line Item Number	Sec. No	Units	Description	Quantity	Unit Price	Item Cost
1	1705	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION WITH COUNTDOWN)	2	\$ 850.00	\$ 1,700.00
2	1705	LF	SIGNAL CABLE	300	\$ 4.00	\$ 1,200.00
3	1705	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	4	\$ 1,150.00	\$ 4,600.00
4	1715	LF	UNPAVED TRENCHING (2 conduits, 2 inch)	50	\$ 18.00	\$ 900.00
5	1715	LF	DIRECTIONAL DRILL (2 conduits, 2 inch)	50	\$ 28.00	\$ 1,400.00
6	1716	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	1	\$ 550.00	\$ 550.00
7	1726	LF	LEAD-IN CABLE (14-2)	100	\$ 3.00	\$ 300.00
8	SP	EA	NEW ELECTRICAL SERVICE	1	\$ 1,450.00	\$ 1,450.00
9	SP	EA	METAL POLE WITH SINGLE MAST ARM	1	\$ 17,000.00	\$ 17,000.00
10	SP	EA	SOIL TEST	1	\$ 1,500.00	\$ 1,500.00
12	SP	CY	DRILLED PIER FOUNDATION*	5.5	\$ 1,300.00	\$ 7,150.00
13	SP	EA	MAST ARM WITH METAL POLE DESIGN	1	\$ 1,000.00	\$ 1,000.00
14	1743	EA	TYPE II PEDESTAL WITH FOUNDATION	2	\$ 2,250.00	\$ 4,500.00
15	1750	EA	SIGNAL CABINET FOUNDATION	1	\$ 2,400.00	\$ 2,400.00
16	1751	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)	1	\$ 20,000.00	\$ 20,000.00
17	1751	EA	DETECTOR CARD (TYPE 2070L)	2	\$ 150.00	\$ 300.00
18	1753	EA	CABINET BASE EXTENDER	1	\$ 625.00	\$ 625.00
19	SP	EA	Mobilization	1	\$ 15,000.00	\$ 15,000.00

TOTAL: \$ 81,575.00

RIP RAP, CLASS A

Line	Station	Side	Description	TONS
L	89+44 TO 91+68		ROCK EMBANKMENT	2160
L	90+95 TO 92+10		ROCK EMBANKMENT	220
Total				2380

PROJECT NO.: R-5963A&B
 COMPUTED BY: AMM
 CHECKED BY: KLF

876

RIP RAP, CLASS B

Line	Station	Side	Description	TONS
-Y1-	21+00	RT		25
-L-	15+35	RT		3
-L-	18+25	RT		55
-L-	38+85	RT		3
-L-	50+50	LT		40
-L-	51+00	LT		75
-L-	51+50	RT		25
-L-	52+70	RT		75
-L-	55+00	RT		135
-L-	62+50	RT		110
-L-	64+75	RT		55
-L-	66+60	RT		185
-L-	67+90	LT		35
-L-	68+90	RT		25
-L-	71+90	RT		15
-L-	75+35	LT		16
-L-	77+65	LT		25
-L-	91+50	RT		3
-L-	104+20	LT		2
-L-	112+00	LT		5
-L-	119+75	LT		55
-L-	125+67	RT		90
-L-	127+43	RT		130
-L-	130+00	RT		180
-L-	132+75	LT		3
-L-	134+15	LT		15
-L-	145+15	RT		15
-L-	147+75	RT		85
-L-	149+20	LT		5
-L-	149+20	RT		38
-L-	162+50	RT		180
-L-	167+20	LT		50
-L-	168+50	RT		140
-L-	171+25	RT		20
-L-	89+44 TO 91+68		ROCK EMBANKMENT	2160
-L-	90+95 TO 92+10		ROCK EMBANKMENT	220
-Y14-	12+60	RT		3
-Y14-	18+00	RT		135
-Y14-	26+85	LT		2
Total				4438

RIP RAP, CLASS I

Total		514
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PROJECT NO.: R-5963A&B
 COMPUTED BY: AMM
 CHECKED BY: KLF

876

GEOTEXTILE FOR DRAINAGE

Line	Station	Side	Description	SY
-Y1-	21+00	RT		50
-L-	15+45	RT		10
-L-	18+25	RT		140
-L-	25+80	RT		435
-L-	38+85	RT		10
-L-	50+50	LT		110
-L-	51+00	RT		30
-L-	51+00	LT		110
-L-	51+50	RT		55
-L-	52+10	LT		40
-L-	52+70	RT		150
-L-	55+00	RT		300
-L-	62+50	RT		310
-L-	64+75	RT		150
-L-	66+60	RT		525
-L-	67+90	LT		75
-L-	68+90	RT		50
-L-	71+95	RT		35
-L-	75+35	LT		30
-L-	77+65	LT		45
-L-	91+50	RT		10
-L-	97+10	RT		130
-L-	98+05	RT		100
-L-	145+15	RT		30
Total (This Sheet)				2930

PROJECT NO.: R-5963A&B
 COMPUTED BY: AMM
 CHECKED BY: KLF

876

GEOTEXTILE FOR DRAINAGE

Line	Station	Side	Description	SY
-L-	104+20	LT		7
-L-	112+00	LT		14
-L-	119+75	LT		115
-L-	125+67	RT		230
-L-	127+44	RT		335
-L-	130+00	RT		400
-L-	132+75	LT		10
-L-	133+35	RT		75
-L-	134+15	LT		30
-L-	135+50	RT		85
-L-	143+55	LT		50
-L-	147+75	RT		180
-L-	149+20	LT		14
-L-	149+20	RT		80
-L-	162+50	RT		400
-L-	164+65	LT		30
-L-	167+20	LT		80
-L-	167+70	LT		62
-L-	168+50	RT		310
-L-	171+25	RT		45
-Y14-	12+60	RT		10
-Y14-	18+00	RT		295
-Y14-	26+85	LT		7
EROSION CONTROL				1350
Total (This Sheet)				4214
Total (All Sheets)				7144
SAY				7,200

Line	Station	Side	Description	CY
-L-	15+35	RT		10
-L-	25+55	RT		275
-L-	38+85	RT		25
-L-	72+00	RT		20
-L-	91+45	RT		70
-L-	144+50	RT		35
-L-	148+50	RT		25
-L-	150+00	RT		160
-L-	132+50	LT		65
-L-	167+25	LT		335
-L-	149+20	RT		65
-L-	51+00	LT		125
-L-	130+00	RT		195
-L-	97+50	RT		75
-L-	173+90	LT		15
-L-	135+25	RT		30
	Total			1525
	SAY			1,530

[illegible]

[illegible]

Estimates Summary for TIP Project # R-5963A

NCPProject #:
FA-Project#:
WBS Number
County:
Description:

Date of Estimate: 2/5/2025
Prepared By: R Garrett

THERMOPLASTIC (4", 90 MILS)		
T10	(4") YELLOW EDGELINE	1945 LF
T10	(4") YELLOW EDGELINE	5440 LF
T10	(4") YELLOW EDGELINE	445 LF
T10	(4") YELLOW EDGELINE	520 LF
T13	(4") YELLOW DOUBLE CENTER	3998 LF
T13	(4") YELLOW DOUBLE CENTER	1234 LF
T13	(4") YELLOW DOUBLE CENTER	5146 LF
T1	(4") WHITE EDGELINE	15716 LF
T1	(4") WHITE EDGELINE	3302 LF
T1	(4") WHITE EDGELINE	657 LF
T1	(4") WHITE EDGELINE	3109 LF
T1	(4") WHITE EDGELINE	150 LF
T2	WHITE SOLID LANE LINE	565 LF
T2	WHITE SOLID LANE LINE	494 LF
T2	WHITE SOLID LANE LINE	3726 LF
T2	WHITE SOLID LANE LINE	501 LF
T3	(4") 10 FT. WHITE SKIP	2377 LF
T3	(4") 10 FT. WHITE SKIP	62 LF
T4	(4") 3 FT. - 9 FT./SP WHITE MINISKIP	29 LF
T4	(4") 3 FT. - 9 FT./SP WHITE MINISKIP	134 LF
T4	(4") 3 FT. - 9 FT./SP WHITE MINISKIP	207 LF
T4	(4") 3 FT. - 9 FT./SP WHITE MINISKIP	1454 LF
T5	(4") 2 FT. - 6 FT./SP WHITE MINISKIP	103 LF
T5	(4") 2 FT. - 6 FT./SP WHITE MINISKIP	13 LF

Estimates Summary for TIP Project # R-5963A

NCPProject #:
FA-Project#:
WBS Number
County:
Description:

Date of Estimate: 2/5/2025
Prepared By: R Garrett

		TOTAL (4", 90 MILS) 51327 LF
THERMOPLASTIC (8", 90 MILS)		
T40	(8") WHITE GORELINE	115 LF
T40	(8") WHITE GORELINE	3863 LF
T40	(8") WHITE GORELINE	1170 LF
T41	(8") WHITE DIAGONAL	699 LF
T41	(8") WHITE DIAGONAL	240 LF
T41	(8") WHITE DIAGONAL	9 LF
T42	(8") YELLOW DIAGONAL	387 LF
T42	(8") YELLOW DIAGONAL	114 LF
T42	(8") YELLOW DIAGONAL	48 LF
T45	(8") 3 FT. - 3 FT./SP WHITE MINISKIP (8", 90 Mil)	41 LF
T45	(8") 3 FT. - 3 FT./SP WHITE MINISKIP (8", 90 Mil)	41 LF
T46	(8") WHITE CROSSWALK LINE	366 LF
T46	(8") WHITE CROSSWALK LINE	695 LF
T46	(8") WHITE CROSSWALK LINE	380 LF
		TOTAL (8", 90 MILS) 8168 LF

Estimates Summary for TIP Project # R-5963A

NCPProject #:
FA-Project#:
WBS Number
County:
Description:

Date of Estimate: 2/5/2025
Prepared By: R Garrett

THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)		
T118	FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW	2 EA
T118	FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW	2 EA
T70	LEFT TURN ARROW	6 EA
T70	LEFT TURN ARROW	2 EA
T70	LEFT TURN ARROW	3 EA
T70	LEFT TURN ARROW	46 EA
T71	RIGHT TURN ARROW	18 EA
T71	RIGHT TURN ARROW	3 EA
T71	RIGHT TURN ARROW	5 EA
T72	STRAIGHT ARROW	4 EA
T72	STRAIGHT ARROW	2 EA
T72	STRAIGHT ARROW	22 EA
T72	STRAIGHT ARROW	4 EA
T73	COMBO STRAIGHT/LEFT	2 EA
T74	COMBO.STRAIGHT/RIGHT	2 EA
T74	COMBO.STRAIGHT/RIGHT	19 EA
T74	COMBO.STRAIGHT/RIGHT	2 EA
TOTAL PAVEMENT MARKING SYMBOLS (90 MILS)		144 EA
POLYUREA (4") (30MIL)		
W10	(4") YELLOW EDGELINE	720 LF
W3	(4") 10 FT. WHITE SKIP	85 LF
TOTAL (4") (30MIL)		805 LF

Estimates Summary for TIP Project # R-5963A

NCPProject #:
FA-Project#:
WBS Number
County:
Description:

Date of Estimate: 2/5/2025
Prepared By: R Garrett

THERMOPLASTIC GENERIC PAVEMENT MARKING ITEM (1205)		
T61	WHITE STOPBAR (24", 90 MIL)	77 LF
T61	WHITE STOPBAR (24", 90 MIL)	191 LF
T61	WHITE STOPBAR (24", 90 MIL)	234 LF
T62	WHITE CROSSWALK LINE (24", 90 MIL)	56 LF
TOTAL GENERIC PAVEMENT MARKING ITEM (1205)		558 LF

PERMANENT RAISED PAVEMENT MARKERS		
MB - CRYSTAL & RED , (@ 20 FT spacing)	25	EA
MB - CRYSTAL & RED , (@ 20 FT spacing)	346	EA
MB - CRYSTAL & RED , (@ 80 FT spacing)	132	EA
MA - YELLOW & YELLOW , (@ 40 FT spacing)	46	EA
MA - YELLOW & YELLOW , (@ 40 FT spacing)	15	EA
MB - CRYSTAL & RED , (@ 20 FT spacing)	87	EA
TOTAL PERMANENT RAISED PAVEMENT MARKERS		651 EA

4 PERMANENT RAISED PAVEMENT MARKERS (ON BRIDGE DECK) - SAY 5 EA
647 POLYCARBONATE H-SHAPED PAVEMENT MARKERS - SAY 650

YIELD LINE THERMOPLASTIC PAVEMENT MARKING, 24", 90 MILS - 70 LF

R-5963A Erosion Control Quantity Estimate

2024 Standards and 2025 updates

CONTRACT ITEM NUMBER	LINE ITEM	Total Quantity	Unit	
0196000000-E	GEOTEXTILE FOR SOIL STABILIZATION	4600.00	SY	
3656000000-E	GEOTEXTILE FOR DRAINAGE	2970.00	SY	
6000000000-E	TEMPORARY SILT FENCE	50650.00	LF	
6006000000-E	EROSION CONTROL STONE, CLASS A	2725.00	TON	
6009000000-E	EROSION CONTROL STONE, CLASS B	7900.00	TON	Rounded down a little to even bid amount.
6012000000-E	SEDIMENT CONTROL STONE	6965.00	TON	
6015000000-E	TEMPORARY MULCHING	57.00	ACR	
6018000000-E	SEED FOR TEMPORARY SEEDING	2500.00	LB	
6021000000-E	FERTILIZER FOR TEMPORARY SEEDING	13.00	TON	
6024000000-E	TEMPORARY SLOPE DRAINS	3300.00	LF	Rounded down a little to even bid amount.
6029000000-E	SAFETY FENCE	2720.00	LF	
6030000000-E	SILT EXCAVATION	38800.00	CY	Rounded up a little to even bid amount.
6036000000-E	MATTING FOR EROSION CONTROL:	115000.00	SY	Matches SAY value on plan sheet EC-3B.
6037000000-E	COIR FIBER MAT	10100.00	SY	Rounded up a little to even bid amount.
6042000000-E	1/4" HARDWARE CLOTH	12400.00	LF	Rounded up a little to even bid amount.
6043000000-E	LOW PERMEABILITY GEOTEXTILE	5200.00	SY	
6045000000-E	*** TEMPORARY PIPE - (15")	170.00	LF	
6045000000-E	*** TEMPORARY PIPE - (24")	430.00	LF	
6070000000-N	SPECIAL STILLING BASINS	16.00	EA	
6071012000-E	COIR FIBER WATTLE	6570.00	LF	
6071014000-E	COIR FIBER WATTLE BARRIER	930.00	LF	
6071002000-E	FLOCCULANT	3585.00	LB	
6071030000-E	COIR FIBER BAFFLE	11310.00	LF	
6071050000-E	*** SKIMMER - (1-1/2")	16.00	EA	
6071050000-E	*** SKIMMER - (2")	11.00	EA	
6071050000-E	*** SKIMMER - (2-1/2")	1.00	EA	
6084000000-E	SEEDING AND MULCHING	51.00	ACR	
6087000000-E	MOWING	48.00	ACR	
6090000000-E	SEED FOR REPAIR SEEDING	600.00	LB	
6093000000-E	FERTILIZER FOR REPAIR SEEDING	2.25	TON	
6096000000-E	SEED FOR SUPPLEMENTAL SEEDING	1150.00	LB	
6108000000-E	FERTILIZER TOPDRESSING	34.25	TON	
6111000000-E	IMPERVIOUS DIKE	60.00	LF	
6114500000-N	SPECIALIZED HAND MOWING	10.00	MHR	
6117000000-N	RESPONSE FOR EROSION CONTROL	125.00	EA	
6123000000-E	REFORESTATION	0.50	ACR	Reduced to buffer area outside of bridge footprint.
6117500000-N	CONCRETE WASHOUT STRUCTURE	2.00	EA	
6132000000-N	GENERIC EROSION CONTROL ITEM - PREFABRICATED CONCRETE WASHOUT	12.00	EA	

RAILROAD CERTIFICATION

TIP / ID NUMBER	R-5963A	WBS ELEMENT	48599.1.2
COUNTY	Chatham	FEDERAL AID PROJECT NUMBER	N/A

In connection with the above referenced project, I certify that all necessary and applicable railroad work complies with Federal and State laws and regulations. I further certify that one of the following has application:

_____ 1. Railroad work is complete,

_____ 2. That all necessary arrangements have been made for applicable railroad work to be undertaken and completed as required for proper coordination with the physical construction schedule to the extent deemed necessary. There will be appropriate notification in the contract documents identifying the railroad work that is to be undertaken concurrently with project construction,

Or

_____ X 3. No railroad conflicts.

This certification assures compliance with all applicable Federal and State laws, rules, and policies.

DATE: 1/29/2025

APPROVED Jeffrey Stroder

Signed by:

Jeffrey Stroder

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Division 8 Project Engineer

UTILITY CERTIFICATION

I. D. No. **R-5963A** W.B.S. Element: **48599.2.4** County: **Chatham** F. A. Project No. **N/A**

In connection with the above referenced project, I certify that all necessary utility work applicable is in accordance with Federal and State laws and regulations. I further certify that one of the following has application:

_____ 1. Completed,

 X 2. That all necessary arrangements have been made for it to be undertaken and completed as required for proper coordination with the physical construction schedule and, to the extent deemed necessary. There will be appropriate notification in the contract documents identifying the utility work that is to be undertaken concurrently with the project construction,

Or

_____ 3. No utility conflicts.

This certification assures compliance with all applicable Federal and State laws, rules and policies.

DATE: 2/10/25

APPROVED _____

DocuSigned by:

Michael Ricketts

3B420DAD60B44EB...

Division Utility Engineer