

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5655	1	5

CONTENTS

LINE	STATION	PLAN	PROFILE
-L-	10+25 TO 21+40	4	5

**ROADWAY
SUBSURFACE INVESTIGATION**

COUNTY EDGEcombe
PROJECT DESCRIPTION REPLACE BRIDGE NO. 11
OVER TOWN CREEK ON NC 11/NC 122

INVENTORY

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1919 TOT-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

NOTES:

1. THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
2. BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

A. N. KINTNER

J. DEAN

D. G. PINTER

INVESTIGATED BY J. L. LOVE

DRAWN BY A. N. KINTNER

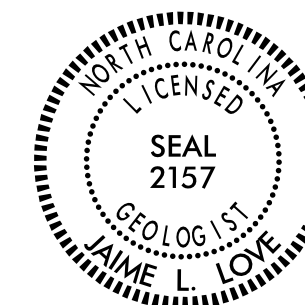
CHECKED BY N. T. ROBERSON

SUBMITTED BY N. T. ROBERSON

DATE JUNE 2019

REFERENCE: B-5655

PROJECT: 45610



DocuSigned by:

Jaime L. Love

7/24/2019

B93571039882485

SIGNATURE

DATE

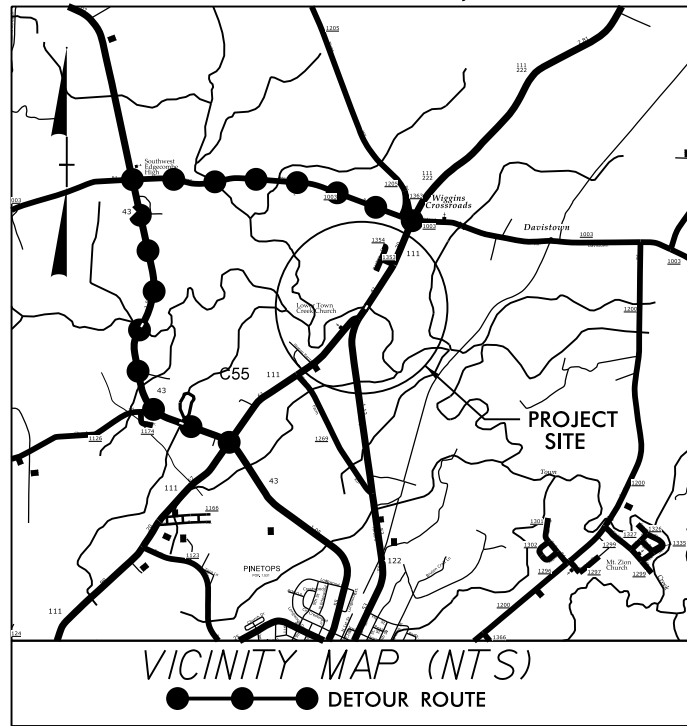
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, TERMS AND DEFINITIONS, SOIL LEGEND AND AASHTO CLASSIFICATION, COMPRESSION, PERCENTAGE OF MATERIAL, GROUND WATER, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, COLOR, EQUIPMENT USED ON SUBJECT PROJECT, FRACTURE SPACING, BEDDING, INDURATION.

09/08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



25% PRELIMINARY PLANS

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

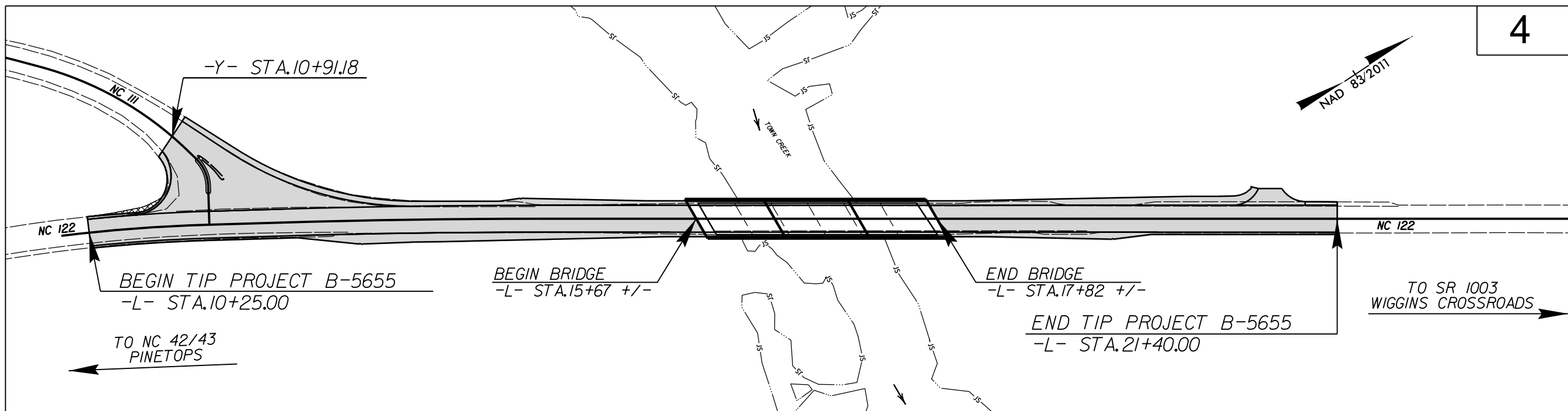
EDGECOMBE COUNTY

**LOCATION: REPLACE BRIDGE NO. 11 OVER
TOWN CREEK ON NC 111/ NC 122**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5655	3	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45610.1.1		P.E.	

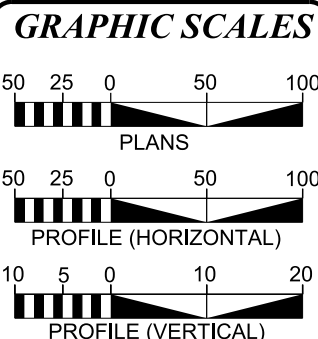
TIP PROJECT: B-5655



THIS PROJECT IS NOT WITHIN MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD _.

INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION
	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2020 =	5075
ADT 2040 =	6900
K =	10 %
D =	55 %
T =	4 %
V =	60 MPH
* TTST =	2% DUAL 2%
FUNC CLASS =	MAJOR COLLECTOR
REGIONAL TIER	

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-5655	= .170 MILES
LENGTH OF STRUCTURE TIP PROJECT B-5655	= .041 MILES
TOTAL LENGTH OF TIP PROJECT B-5655	= .211 MILES

Prepared in the Office of:
KCI Associates of N.C., P.A.
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214
Fax (919) 783-9266

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 28, 2019

LETTING DATE:
MAY 19, 2020

NCDOT CONTACT:

Plans Prepared For:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr.
Raleigh NC, 27610

DEWAYNE L. SYKES, P.E.
PROJECT ENGINEER

BRYAN E. HOUGH, P.E.
PROJECT DESIGN ENGINEER

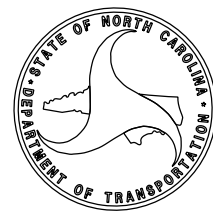
DAVID STUTTS, P.E.
STRUCTURES MANAGEMENT UNIT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



12-JUN-2019 15:19 S:\FRO\Releigh\Investigation\TIP\B5655_GEO_RDWY\CADD_GEO\TECH\PlanProj\B-5655_GEO_Rdy_tsh.dgn \$\$\$USERNAME\$\$\$



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

June 10, 2019

STATE PROJECT: 45610.1.1 (B-5655)
 FEDERAL PROJECT:
 COUNTY: EDGECOMBE
 DESCRIPTION: Replace Bridge No. 11 over Town Creek on NC 111/NC 122
 SUBJECT: Geotechnical Report – Inventory

The Geotechnical Engineering Unit has completed a subsurface investigation for this roadway project and presents the following inventory.

Project Description

This project consists of widening of existing NC 111/NC 122 (-L-) and NC 111 (-Y-). The types of work include grading, drainage, paving, and structure. The structure inventory will be completed at a later date.

A geotechnical investigation was conducted during May of 2019. Five hand auger borings were performed by the Geotechnical Engineering Unit. Representative soil samples were collected for visual classification in the field.

The following alignment, totaling 0.17 miles, was investigated. Subsurface plans and a profile of this alignment are included in this report.

<u>Line</u>	<u>Stations</u>
-L-	10+25 to 21+40

Physiography and Geology

The project is located 2.4 miles north of the town of Pinetops and within the Coastal Plain Province. Soils consist of sands originating from Coastal Plain. The terrain is relatively flat. The widening project mostly consists of woods and grassy areas.

Soils Properties

Soils encountered during this investigation are roadway embankment, Undivided Coastal Plain, and alluvial.

Roadway Embankment soils are present throughout the project. These soils primarily consist of tan-brown, moist, very loose to loose, silty sand (A-2-4).

Alluvial soils are anticipated to be found in Town Creek and the immediate surrounding areas. These soils consist of brown-tan, moist to saturated, very loose to loose, silty sand (A-2-4).

Undivided Coastal Plain soils were encountered throughout the project. These soils are characterized by tan, brown, and orange, moist to saturated, very loose to loose, silty sand (A-2-4).

Groundwater

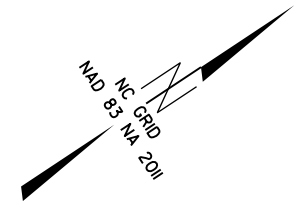
Groundwater measurements were taken in May of 2019 during average rainfall conditions. Groundwater is anticipated to be similar in elevation to Town Creek.

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

Telephone: 919-707-6850
Fax: 919-250-4237
Customer Service: 1-877-368-4968

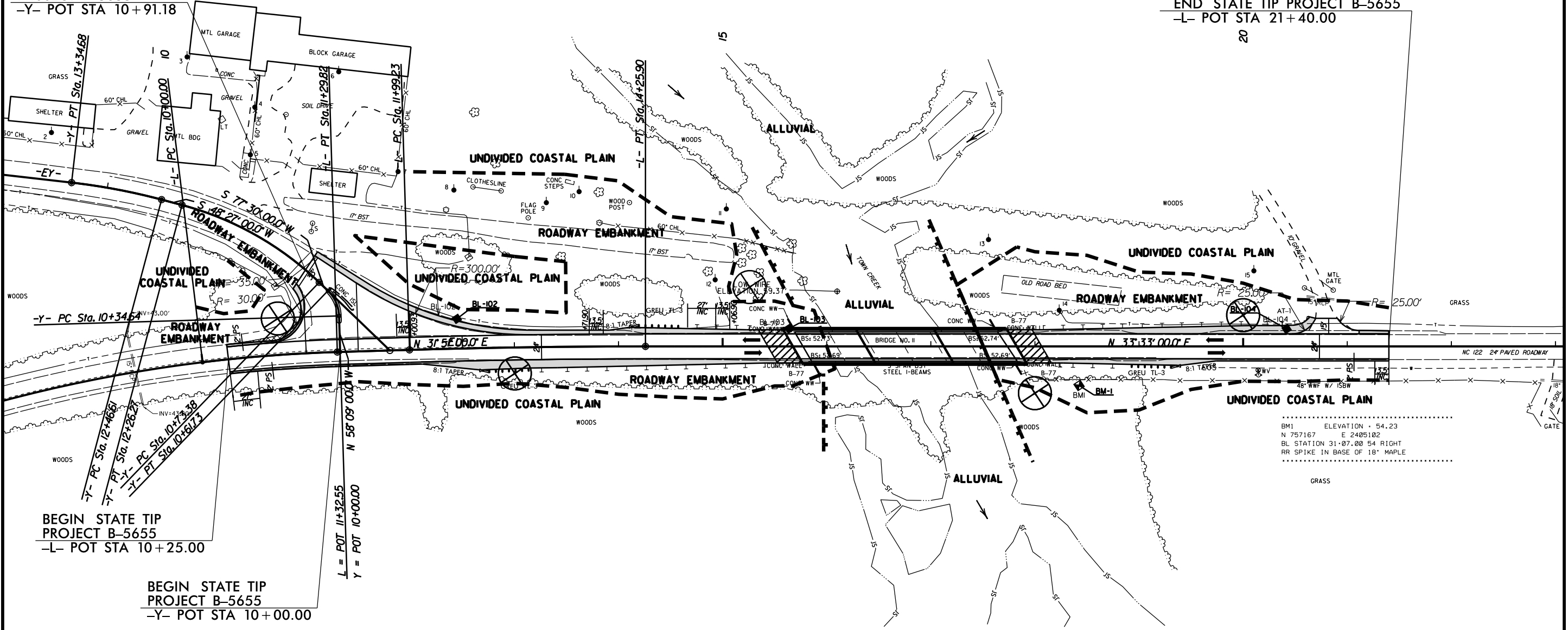
Website: www.ncdot.gov

Location:
 CENTURY CENTER COMPLEX
 ENTRANCE B-2
 1020 BIRCH RIDGE DRIVE
 RALEIGH NC



BEGIN STATE TIP
PROJECT B-5655
-Y- POT STA 10+91.18

END STATE TIP PROJECT B-5655
-L- POT STA 21+40.00
20



BEGIN STATE TIP
PROJECT B-5655
-L- POT STA 10+25.00

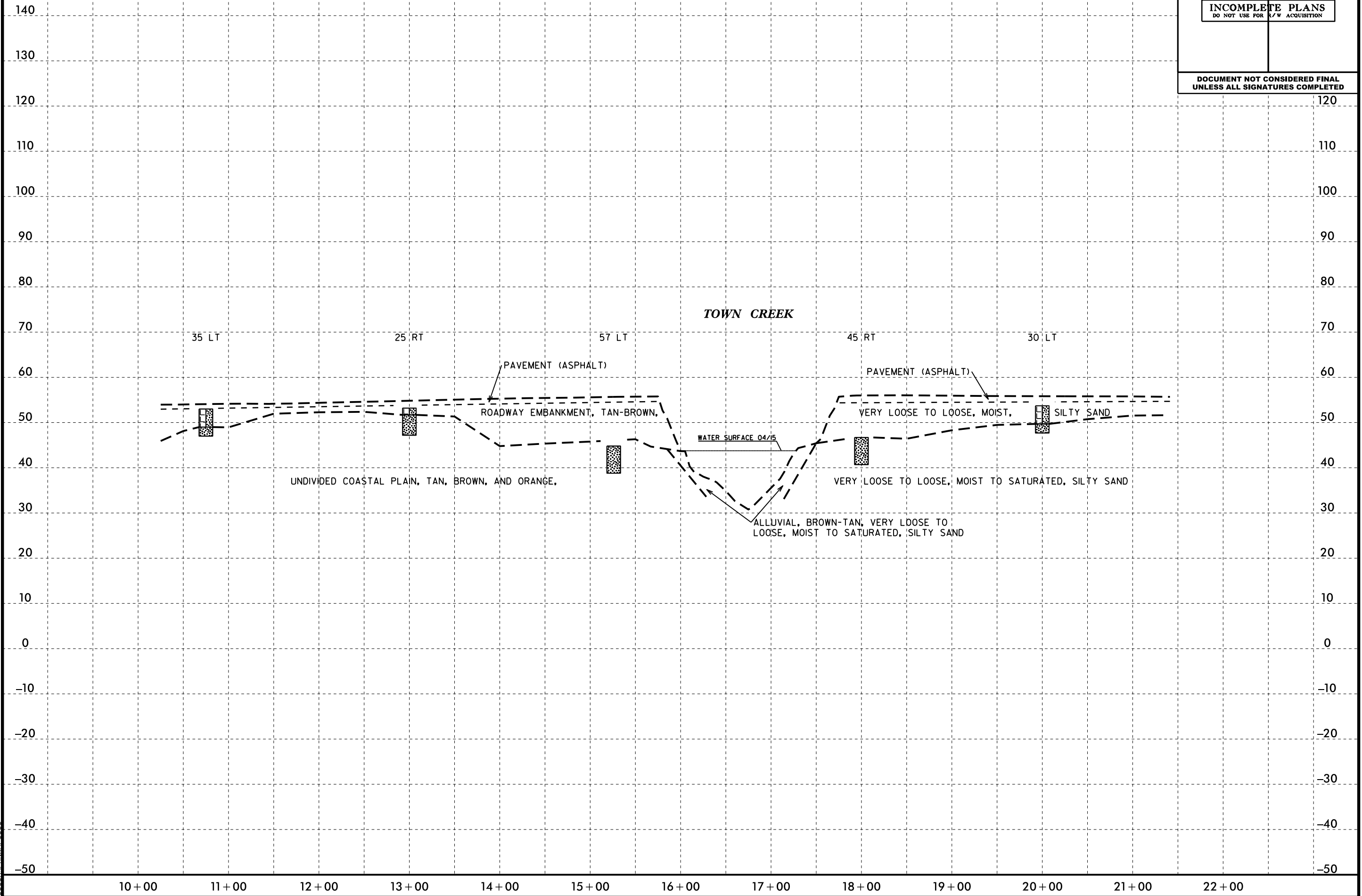
BEGIN STATE TIP
PROJECT B-5655
-Y- POT STA 10+00.00

.....
BM1 ELEVATION = 54.23
N 757167 E 2405102
BL STATION 31+07.00 54 RIGHT
RR SPIKE IN BASE OF 18' MAPLE
.....
GRASS

5/14/99

PROJECT REFERENCE NO. B-5655	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-



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\$\$\$\$SYSTRAN\$\$\$