

REFERENCE: U-6187

PROJECT: 48647

SEE SHEET 3 FOR PLAN SHEET LAYOUT  
AT TIME OF INVESTIGATION

CONTENTS

| LINE  | STATION       | PLAN    |
|-------|---------------|---------|
| -L-   | 10+30 - 72+81 | 4-8     |
| -Y1-  | 10+31 - 35+40 | 5,9,10  |
| -Y2-  | 27+98 - 63+90 | 8,11,12 |
| -Y3-  | 10+00 - 11+26 | 9       |
| -Y4-  | 10+00 - 22+49 | 4,5     |
| -LPB- | 10+00 - 22+69 | 8       |
| -RPB- | 10+00 - 31+48 | 8       |
| -RPC- | 10+00 - 25+89 | 8       |
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APPENDIX A

| TITLE             | SHEETS |
|-------------------|--------|
| BORING LOGS       | 13-70  |
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| DCP DATA SHEETS   | 73-80  |

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

ROADWAY  
SUBSURFACE INVESTIGATION

COUNTY DAVIE  
PROJECT DESCRIPTION REALIGNMENT AND  
EXTENSION OF SR 1630 (BALTIMORE ROAD)  
ON NEW LOCATION FROM SOUTH OF US 158  
TO A NEW INTERCHANGE AT I-40

INVENTORY

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------|-----------------------------|-----------|--------------|
| N.C.  | U-6187                      | 1         |              |

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 (919) 707-6850. 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 PERFORM INDEPENDENT SUBSURFACE INVESTIGATIONS AND MAKE INTERPRETATIONS AS NECESSARY TO CONFIRM CONDITIONS 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:
- 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.
  - 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

Q. HILL

CG2 EXPLORATION

J. CRENSHAW

J. ROSE

R. MAFFIA

M. HABERMANN

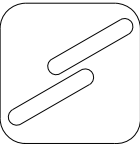
INVESTIGATED BY J. CRENSHAW

DRAWN BY Q. HILL

CHECKED BY J. CRENSHAW

SUBMITTED BY SCHNABEL ENG.

DATE JULY 2024



Schnabel  
ENGINEERING



Signed by:

*Jared K. Crenshaw*

F325B40D4C25483...

SIGNATURE

08/01/2024

DATE

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

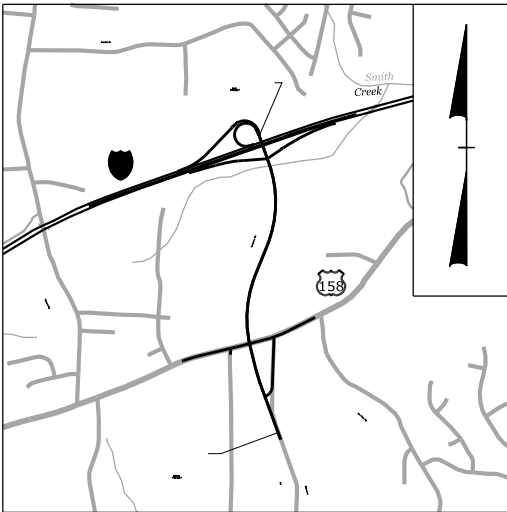


09/08/25

TIP PROJECT: U-6187

CONTRACT: TBD

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



VICINITY MAP (NTS)

DESIGN RECOMMENDATION PLANS

(PLANS DEVELOPED USING  
OPENROADS DESIGNER)

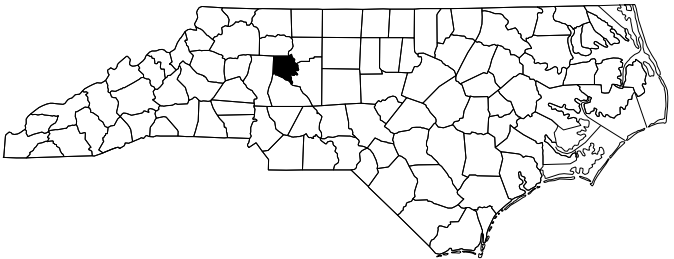
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

DAVIE COUNTY

LOCATION: *REALIGNMENT AND EXTENSION OF SR 1630  
(BALTIMORE ROAD) FROM SOUTH OF US 158  
TO A NEW INTERCHANGE AT I-40*

TYPE OF WORK: *GRADING, PAVING, DRAINAGE, AND STRUCTURES*

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | U-6187                      | 3           |              |
| STATE PROJ. NO. | F. A. PROJ. NO.             | DESCRIPTION |              |
| 48647.1.1       |                             | PE          |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |



BEGIN TIP PROJECT U-6187  
-L- STA. 10+30.00

END TIP PROJECT U-6187  
-L- STA. 72+80.54

END PROP. BRIDGE  
-L- STA. 72+09 ±

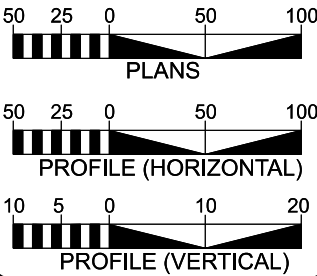
PROPOSED BRIDGE

END CONSTRUCTION  
-Y2- STA. 54+04.08 LT

THIS PROJECT IS NOT WITHIN A MUNICIPAL BOUNDARY.  
THIS IS A CONTROL OF ACCESS PROJECT WITH ACCESS TO I-40 BEING LIMITED TO INTERCHANGES.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

DENOTES PROPOSED TRAFFIC SIGNAL

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 8,100  
ADT 2045 = 21,200  
K = 10 %  
D = 55 %  
T = 8 % \*  
V = 60 MPH  
\* TTST = 6% DUAL 2%  
FUNC CLASS =  
MAJOR COLLECTOR  
STATE WIDE TIER

PROJECT LENGTH

PROJECT LENGTHS FOR TIP PROJECT U-6187:  
LENGTH ROADWAY TIP PROJECT U-6187 = 1.139 MILES  
LENGTH STRUCTURES TIP PROJECT U-6187 = 0.045 MILES  
TOTAL LENGTH TIP PROJECT U-6187 = 1.184 MILES

NCDOT Contact: RYAN C. NEWCOMB, PE  
Prepared in the Office of:



2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
JUNE 30, 2024

JONATHAN P. SOIKA, P.E.  
PROJECT ENGINEER

LETTING DATE:  
JUNE 17, 2025

JERRY B. JAVELLANA, P.E.  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_  
ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_  
P.E.



July 31, 2024

STATE PROJECT: 48647.1.1

TIP NUMBER: U-6187

COUNTY: DAVIE

DESCRIPTION: Realignment and Extension of SR 1630 (Baltimore Road) on New Location from South of US 158 to a New Interchange at I-40

SUBJECT: Geotechnical Roadway Inventory Report

Project Description

The project consists of constructing a 1.139-mile roadway on new location and adjoining existing state highways, a 2-span bridge over I-40, and 1 culvert, in the city of Advance, North Carolina. The new interchange will provide direct access to I-40 from the communities of Bixby, Redland and the surrounding rural area. The direct access to I-40 will support economic development and address traffic congestion at existing intersections. We also investigated a proposed culvert extension at approximately -Y2- STA. 30+25. It is our understanding that the design team no longer intends to extend this culvert. The provided plans showed anticipated cut excavations as deep as 30± feet and proposed embankment construction with fill heights up to 55± feet. Boring logs associated with this culvert extension are included in this report.

The field investigation was conducted in November 2023 through February of 2024 using both rubber-tire and track-mounted CME 550X drill rigs, with automatic hammers, a truck mounted Mobile B-29, with automatic hammer, and hand tools. Standard Penetration Tests (SPT) were performed at selected locations. Borings were advanced with hollow stem auger equipment and hand tools along the project corridor. Cone Penetration Tests (CPT) and Dilatometer (DMT) tests were completed near the proposed shoulder points of a culvert approximately 30-feet left and 40-feet right of -L- STA. 66+25 as well as at -L- STA. 69+74, near End Bent 1 of the proposed bridge over I-40. Hand augers were performed at locations the drill rig could not access or where concentrated underground utilities warranted, Dynamic Cone Penetration Tests (DCP) were conducted at all hand auger locations. Representative soil samples were collected and forwarded to an approved testing facility for soil quality analysis, moisture content, California Bearing Ratio, specific gravity, organic content, and AASHTO classification.

The Following Alignments were Investigated

| Line  | Station |    |        | Length (ft)              |
|-------|---------|----|--------|--------------------------|
| -L-   | 10+30   | to | 72+81  | 6,251                    |
| -Y1-  | 10+31   | to | 35+40  | 2,509                    |
| -Y2-  | 27+98   | to | 63+90  | 3,592                    |
| -Y3-  | 10+00   | to | 11+26  | 126                      |
| -Y4-  | 10+00   | to | 22+49  | 1,249                    |
| -LPB- | 10+00   | to | 22+69  | 1,269                    |
| -RPB- | 10+00   | to | 31+48  | 2,148                    |
| -RPC- | 10+00   | to | 25+89  | 1,589                    |
| -RPD- | 10+00   | to | 25+32  | 1,532                    |
|       |         |    | Total= | 20,265 feet (~3.8 miles) |

Physiography and Geology

Based on a review of the Geologic map of North Carolina (1985) and the Geologic map of the Charlotte 1 degree x 2 degrees quadrangle, North Carolina and South Carolina (1988), the project is located in the Piedmont Physiographic Province. Soils in the area generally consist of residual sands, silts, and clays. Weathered rock and Late Proterozoic crystalline rock of the Metamorphic Mafic Complex (mm) primarily consisted of meta-gabbro underlie. Topography along the project corridor is gently rolling, traversing through a heavily wooded area to the north of US 158 until reaching an open pasture south of I-40. Natural ground surface elevations range from 757.3± feet above sea level in the vicinity of Smith Creek along the -L- alignment to 884.1± feet above sea level at the start of the -Y1- alignment.

Soil Properties

Soil and rock encountered along the project corridor are divided into five categories based on origin: roadway embankment soils, alluvial soils, residual soils, weathered rock, and crystalline rock.

Roadway embankment soils consisting of very loose SAND and GRAVEL (A-1-b), medium stiff silty SAND (A-2-4), medium stiff, clayey SILT (A-5), and medium stiff sandy CLAY, silty CLAY, and sandy and silty CLAY (A-6, A-7-5, A-7-6) were encountered along the -L-, -Y1-, and -Y2- alignments. Soils varied in thickness from less than one foot to 10 feet. Soils moistures were typically moist. Soil quality (classification) testing performed on two samples from this stratum indicate liquid limits of 42 and 59, and plasticity indices (PI) of 13 and 30. Moisture content values were reported as 21% and 32%.

Alluvial soils consisting of stiff sandy CLAY and CLAY (A-6, A-7-6), and sandy SILT (A-4) were encountered along the -L- alignment near Smith Creek. Thickness varied from less than one foot to 6.5 feet thick. Soils moistures were typically moist to wet. Soil quality (classification) testing performed on 2 samples from this stratum indicate liquid limits of 38 and 45, and plasticity indices (PI) of 14 and 17. Moisture content values were reported as 53% and 59%. Organic contents of two samples were reported at 5% and 10.2%.

Residual soils consisting of very loose to very dense SAND, silty SAND and clayey SAND (A-3, A-2-4, A-2-6), medium stiff to hard, SILT, sandy SILT and clayey SILT (A-4, A-5), and very soft to hard, CLAY, sandy CLAY, silty CLAY, and sandy and silty CLAY (A-6, A-7, A-7-5, A-7-6) were encountered throughout the project corridor. Soils varied in thickness from less than one foot to a maximum of 69.1 feet. Soil moistures were typically dry to wet. Soil quality (classification) testing performed on samples from this stratum indicate liquid limits of 31 to 87, and plasticity indices (PI) of 3 to 47. Moisture content values ranged from 9.0% to 70.0%.

Weathered rock consisting of gray, white, black, brown, tan, and pink meta-gabbro was encountered interlaid and underlying residual soils at several locations along the project corridor. Weathered rock elevations in these borings varied from 719.5± feet above sea level to 818.9± feet above sea level. Auger and split spoon refusal were noted beneath some of these layers on crystalline rock (meta-gabbro).

Crystalline rock consisting of black, white, gray, and tan meta-gabbro was encountered underlying residual soils and weathered rock at several locations along the corridor. Top of rock elevations in these borings varied from 686.5± feet above sea level to 738.2± feet above sea level. No rock core samples were collected as part of this investigation.



Groundwater

Borings were left open for a minimum of 24 hours to equilibrate with the surrounding conditions, when conditions permitted. All measured groundwater levels were at least 6 feet below proposed pavement grades in the preliminary roadway plans. Groundwater data was collected in November and December of 2023. Groundwater elevations generally varied with topography and ranged from 764± to 813± feet above sea level.

Areas of Special Geotechnical Interest

A. Highly plastic soils were encountered in the following sections.

| Alignment | Begin Station | End Station |
|-----------|---------------|-------------|
| -L-       | 30+75         | 33+75       |
| -L-       | 37+75         | 50+75       |
| -Y1-      | 10+31         | 15+25       |
| -Y1-      | 16+25         | 23+25       |
| -Y2-      | 19+93         | 25+25       |
| -Y2-      | 45+25         | 50+75       |
| -Y2-      | 61+75         | 62+25       |
| -RPB-     | 13+75         | 18+75       |
| -RPD-     | 10+00         | 17+75       |

B. Alluvial Soils were encountered in the following sections.

| Alignment | Begin Station | End Station |
|-----------|---------------|-------------|
| -L-       | 65+75         | 67+25       |

Alluvial soils should also be expected within the vicinity of creeks and streams in the following areas.

| Alignment | Begin Station | End Station |
|-----------|---------------|-------------|
| -Y2-      | 28+75         | 32+25       |
| -Y2-      | 50+25         | 52+75       |
| -Y4-      | 12+25         | 13+75       |
| -RPD-     | 20+25         | 22+25       |

These areas may require culvert structures under embankment fills, which were not identified in the preliminary roadway plans.

C. Fill soils were encountered in the following sections.

| Alignment | Begin Station | End Station |
|-----------|---------------|-------------|
| -Y1-      | 16+25         | 16+75       |
| -Y1-      | 28+25         | 32+75       |
| -Y2-      | 34+75         | 60+25       |

D. Groundwater wells are shown on the preliminary plans in the following locations.

| Alignment | Station | Offset  |
|-----------|---------|---------|
| -Y1-      | 27+90   | 100' LT |
| -Y4-      | 16+00   | 37' LT  |

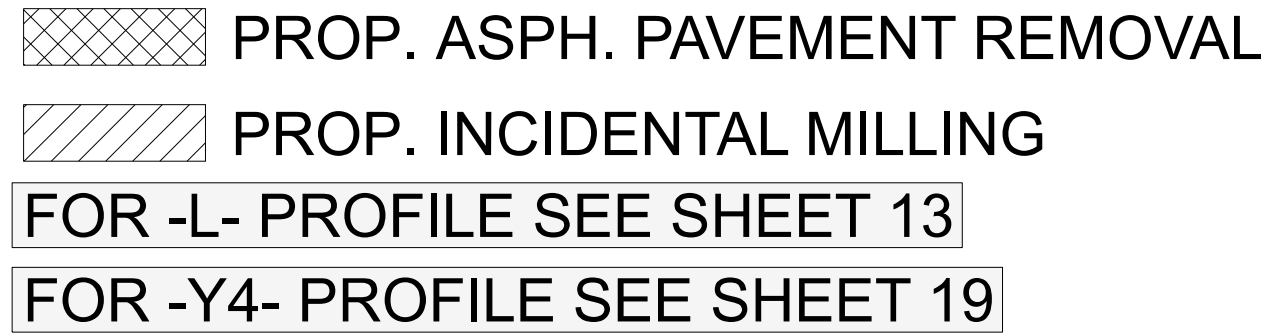
E. No rock outcrops were observed within the project limits.



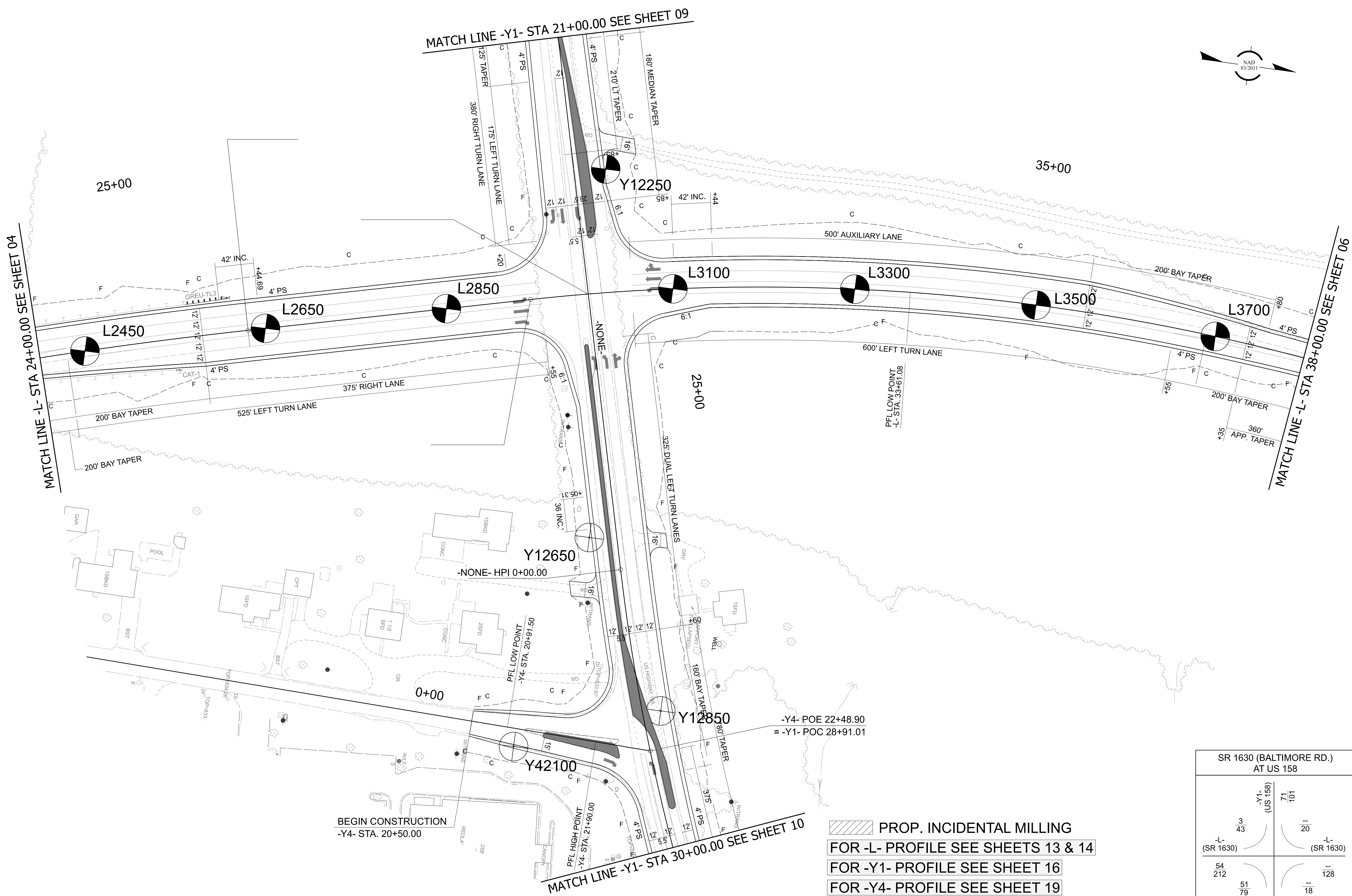
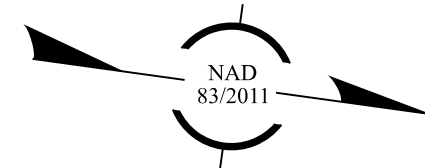
Jared K. Crenshaw, PG  
Senior Geologist



Jason A. Holland, PG  
Project Geologist







PROPOSED TRAFFIC SIGNAL

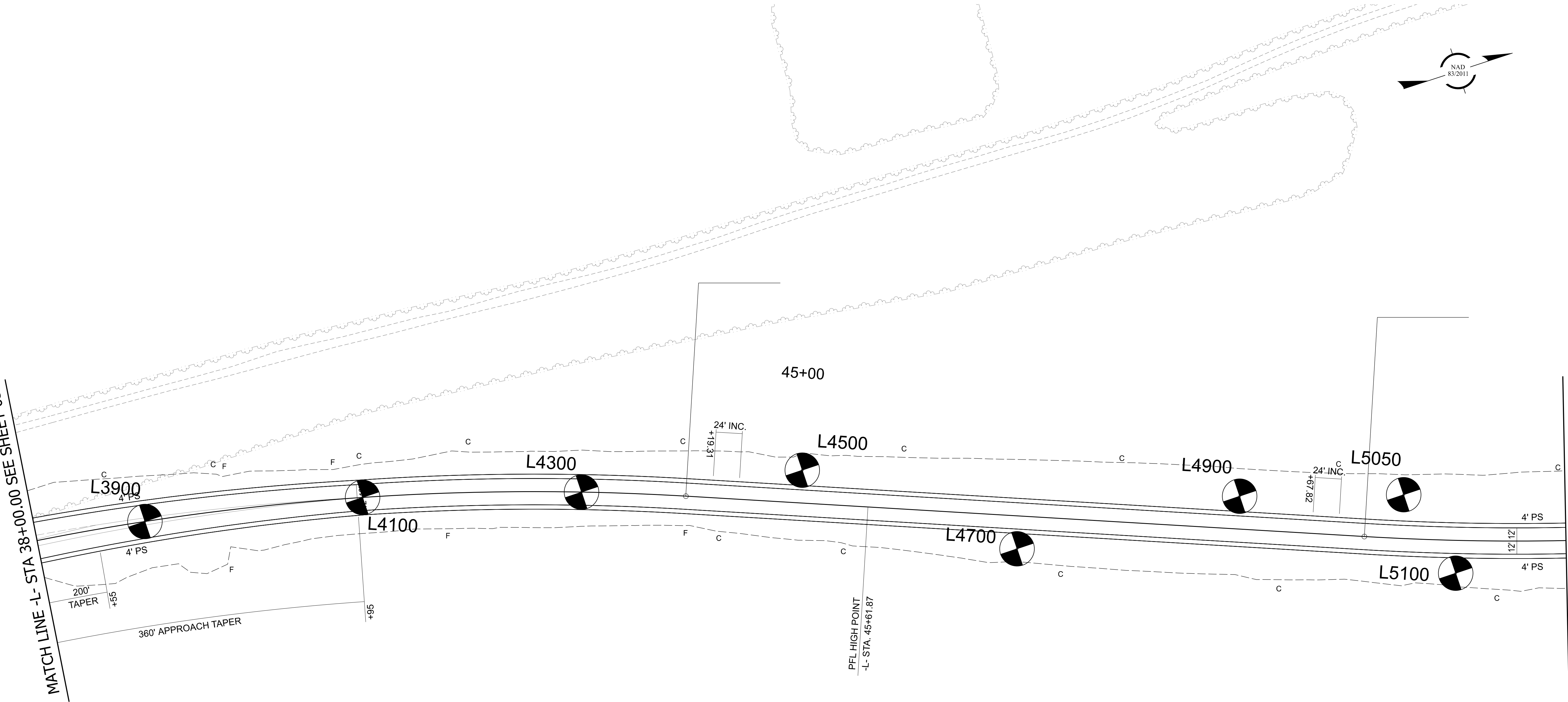
PROP. INCIDENTAL MILLING  
FOR -L- PROFILE SEE SHEETS 13 & 14  
FOR -Y1- PROFILE SEE SHEET 16  
FOR -Y4- PROFILE SEE SHEET 19

| SR 1630 (BALTIMORE RD.)<br>AT US 158 |           |                 |            |
|--------------------------------------|-----------|-----------------|------------|
| -L-<br>(SR 1630)                     | 3<br>43   | Y1-<br>(US 158) | 71<br>101  |
|                                      |           |                 |            |
| -L-<br>(SR 1630)                     | 54<br>212 | 51<br>79        | 128<br>18  |
|                                      |           |                 |            |
| 2019<br>2045                         | ADT       | Y1-<br>(US 158) | 119<br>135 |



MATCH LINE -L- STA 38+00.00 SEE SHEET 05

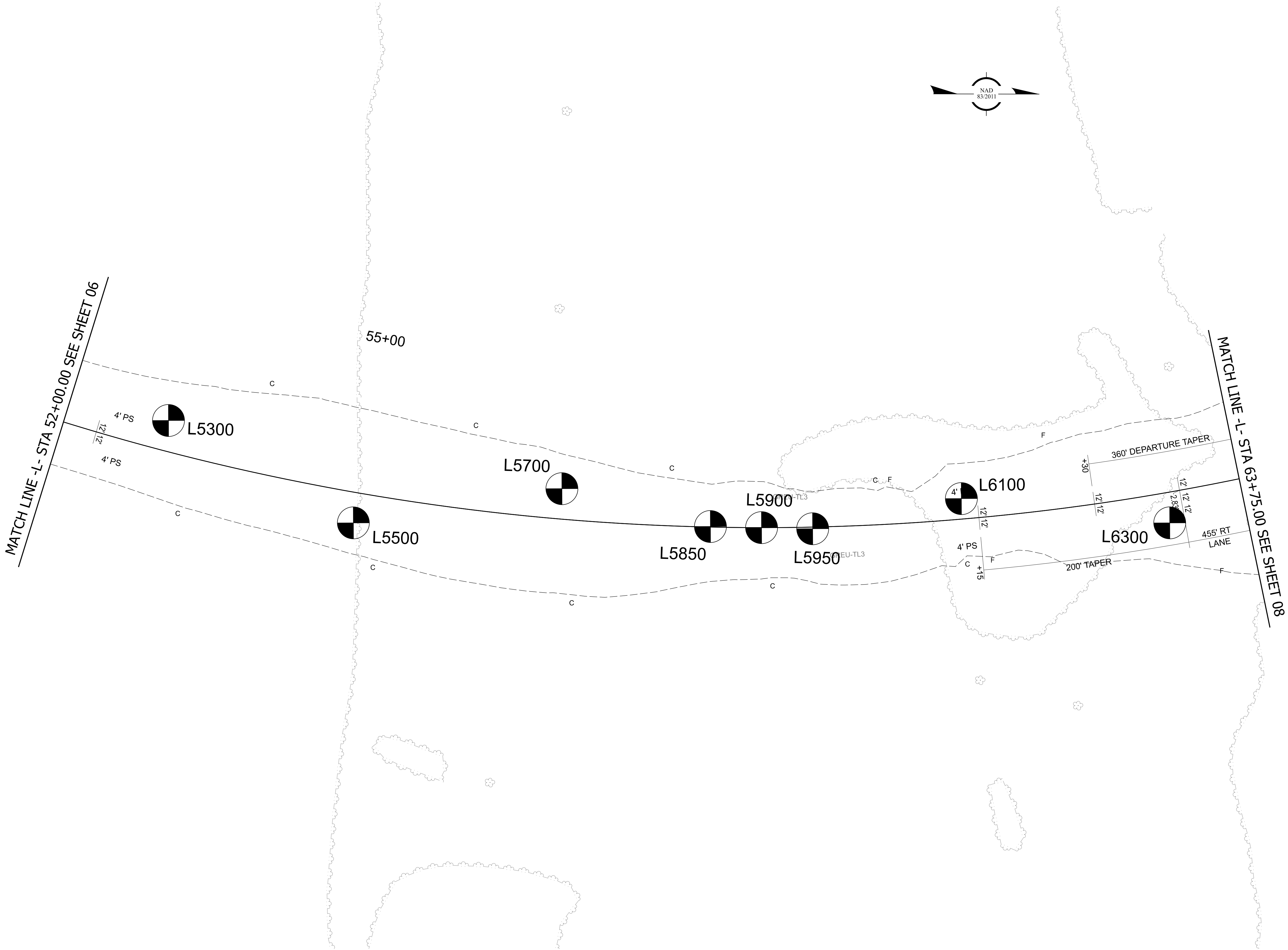
MATCH LINE -L- STA 52+00.00 SEE SHEET 07



FOR -L- PROFILE SEE SHEET 14

|                                                                                                                        |    |
|------------------------------------------------------------------------------------------------------------------------|----|
| U-6187                                                                                                                 |    |
| 2RD1                                                                                                                   | 06 |
| NORTH CAROLINA<br>DEPARTMENT OF TRANSPORTATION<br>DAVIE COUNTY                                                         |    |
|                                                                                                                        |    |
| ROADWAY DESIGN UNIT<br>ROADWAY DESIGN<br>ENGINEER                                                                      |    |
| HYDRAULICS<br>ENGINEER                                                                                                 |    |
| PREPARED BY<br>                                                                                                        |    |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED<br>INCOMPLETE PLANS<br>DO NOT USE FOR R/W ACQUISITION |    |





U-6187

2R0107

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIE COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN  
ENGINEER

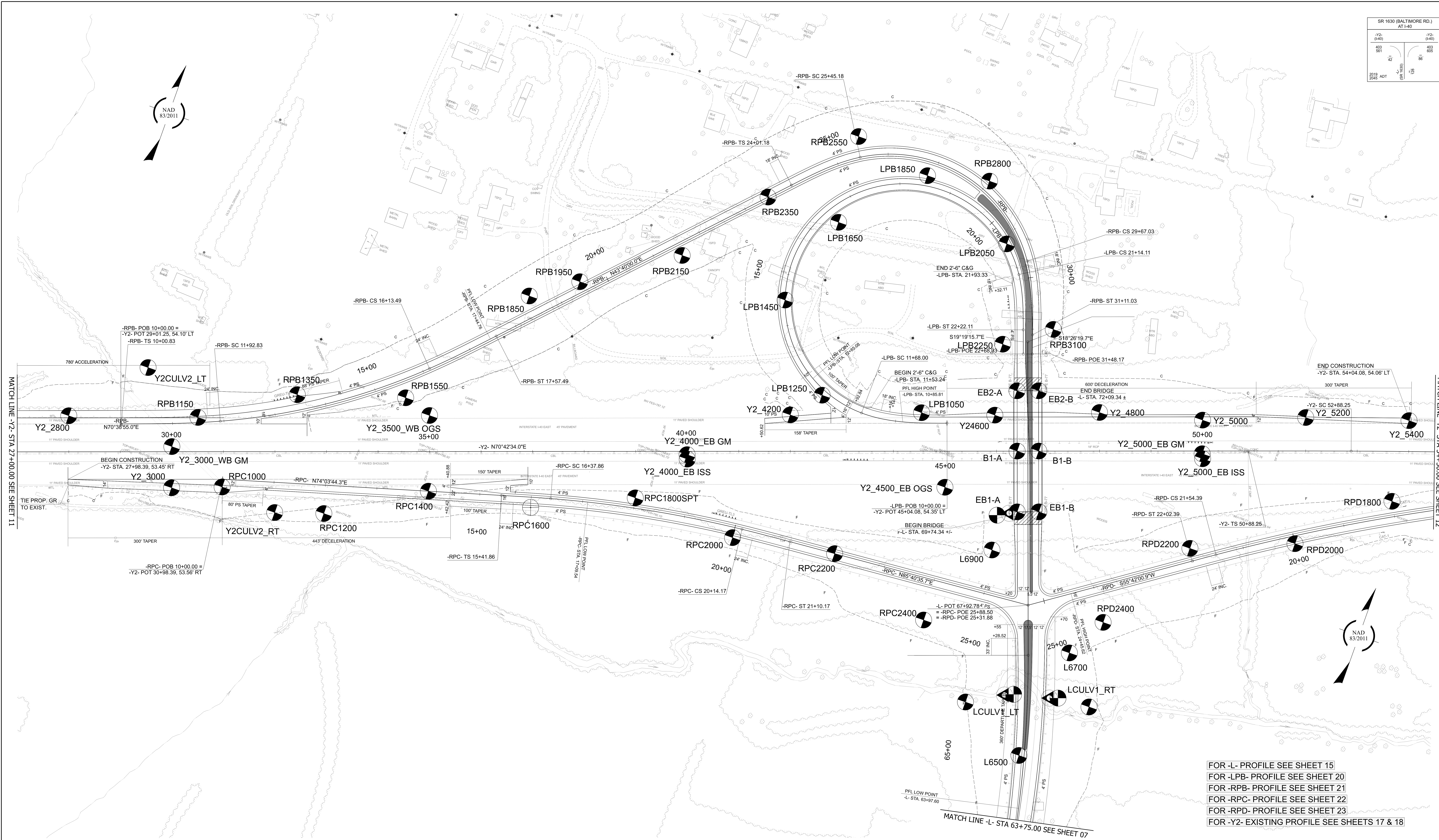
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ENGINEER

PREPARED BY

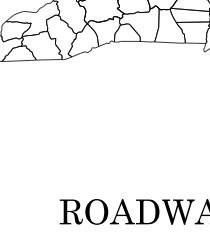
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

INCOMPLETE PLANS  
DO NOT USE FOR BIDDING



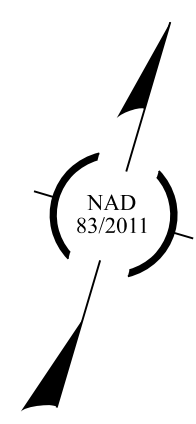


FOR -L- PROFILE SEE SHEET 15  
FOR -LPB- PROFILE SEE SHEET 20  
FOR -RPB- PROFILE SEE SHEET 21  
FOR -RPC- PROFILE SEE SHEET 22  
FOR -RPD- PROFILE SEE SHEET 23  
FOR -Y2- EXISTING PROFILE SEE SHEETS 17 & 18

|                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| <p>NORTH CAROLINA<br/>DEPARTMENT OF TRANSPORTATION<br/>DAVIE COUNTY</p>  <p>ROADWAY DESIGN UNIT</p> <p><b>ROADWAY DESIGN<br/>ENGINEER</b></p> |
| <p><b>HYDRAULICS<br/>ENGINEER</b></p>                                                                                                                                                                                            |
| <p><b>PREPARED BY</b></p> <div style="border: 1px solid black; height: 150px; width: 100%; margin-top: 10px;"></div>                                                                                                             |
| <p><b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b></p> <p><b>INCOMPLETE PLANS</b><br/>DO NOT USE FOR R/W ACQUISITION</p>                                                                                |



5/26/20



U-6187

2R0109

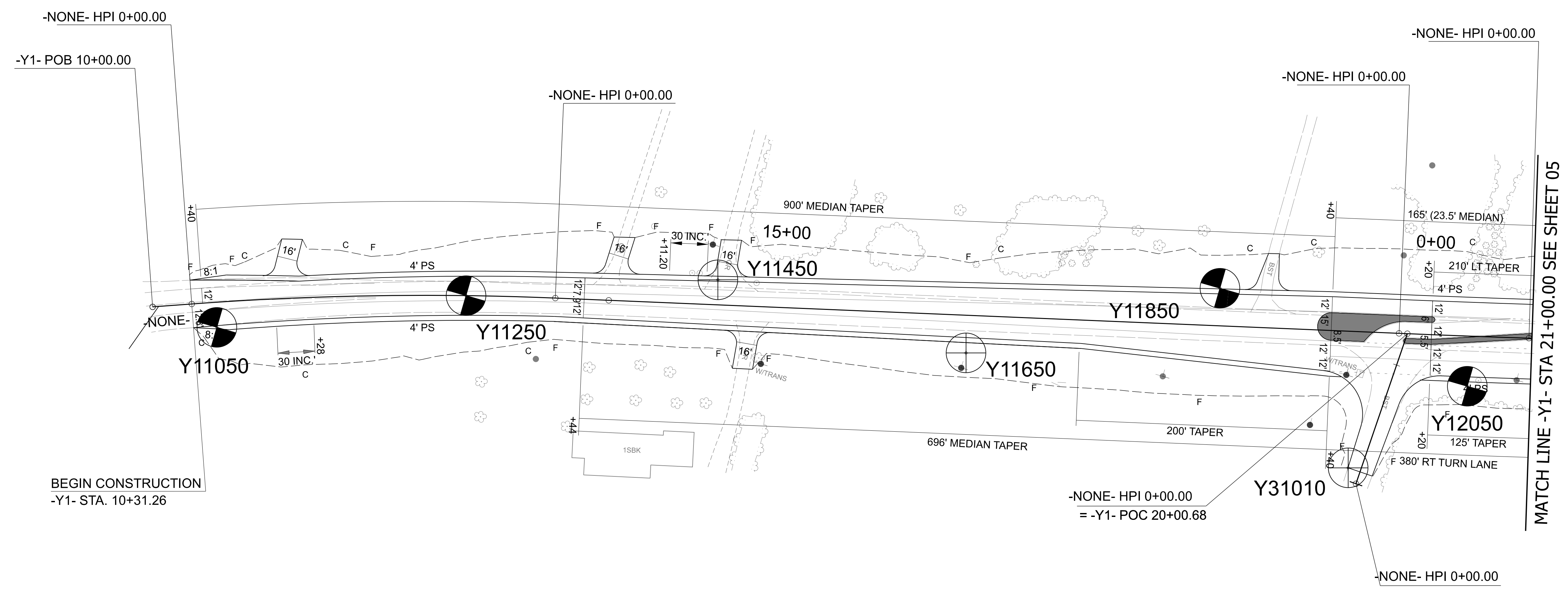
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIE COUNTY

ROADWAY DESIGN UNIT  
ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

PREPARED BY

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DO NOT USE FOR RFP ACQUISITION

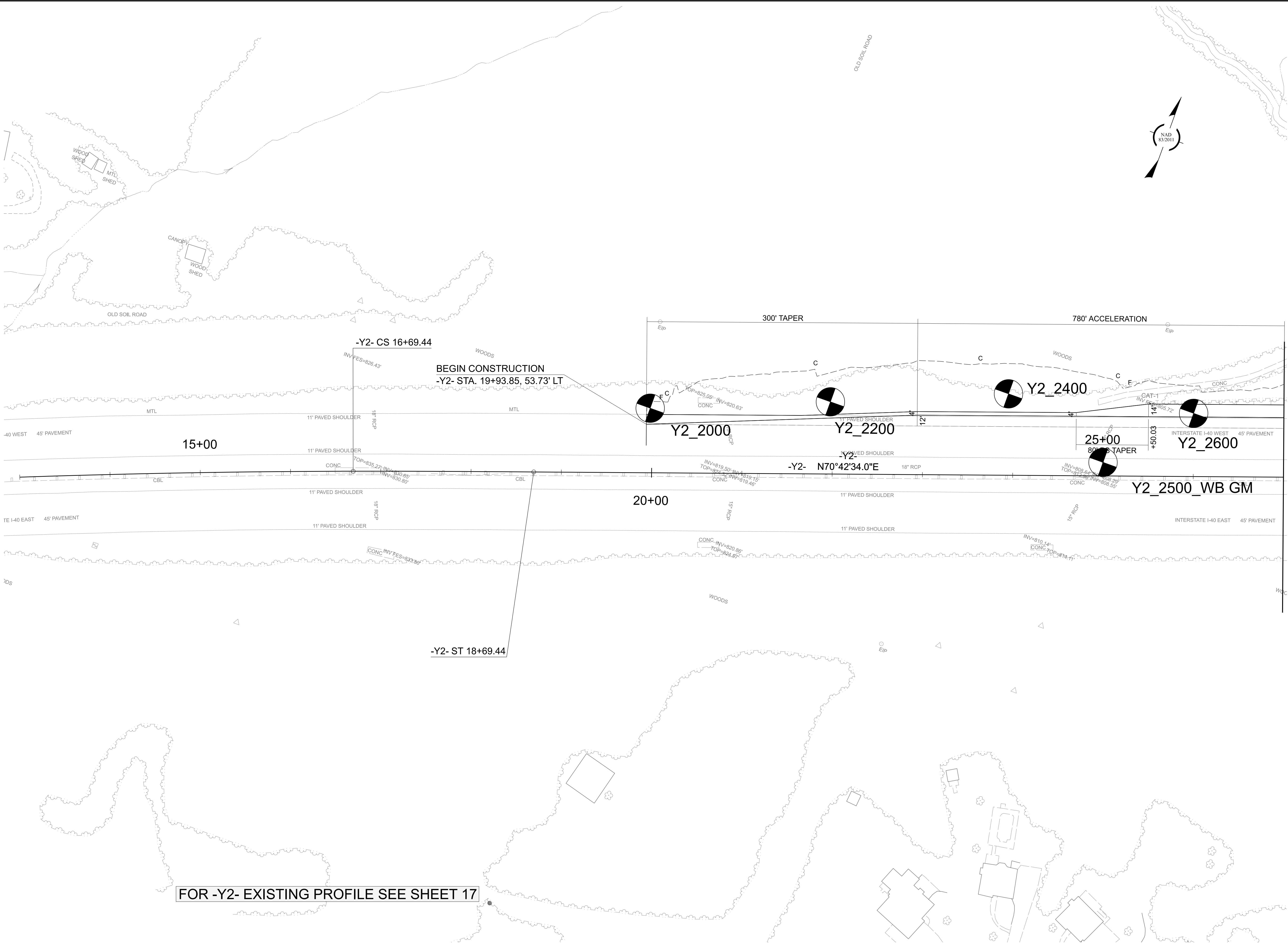


PROP. INCIDENTAL MILLING  
FOR -Y1- PROFILE SEE SHEET 16









FOR -Y2- EXISTING PROFILE SEE SHEET 17

MATCH LINE -Y2- STA 27+00.00 SEE SHEET 08

U-6187

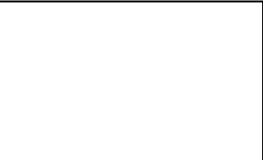
2R01II

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIE COUNTY



ROADWAY DESIGN UNIT  
ROADWAY DESIGN  
ENGINEER

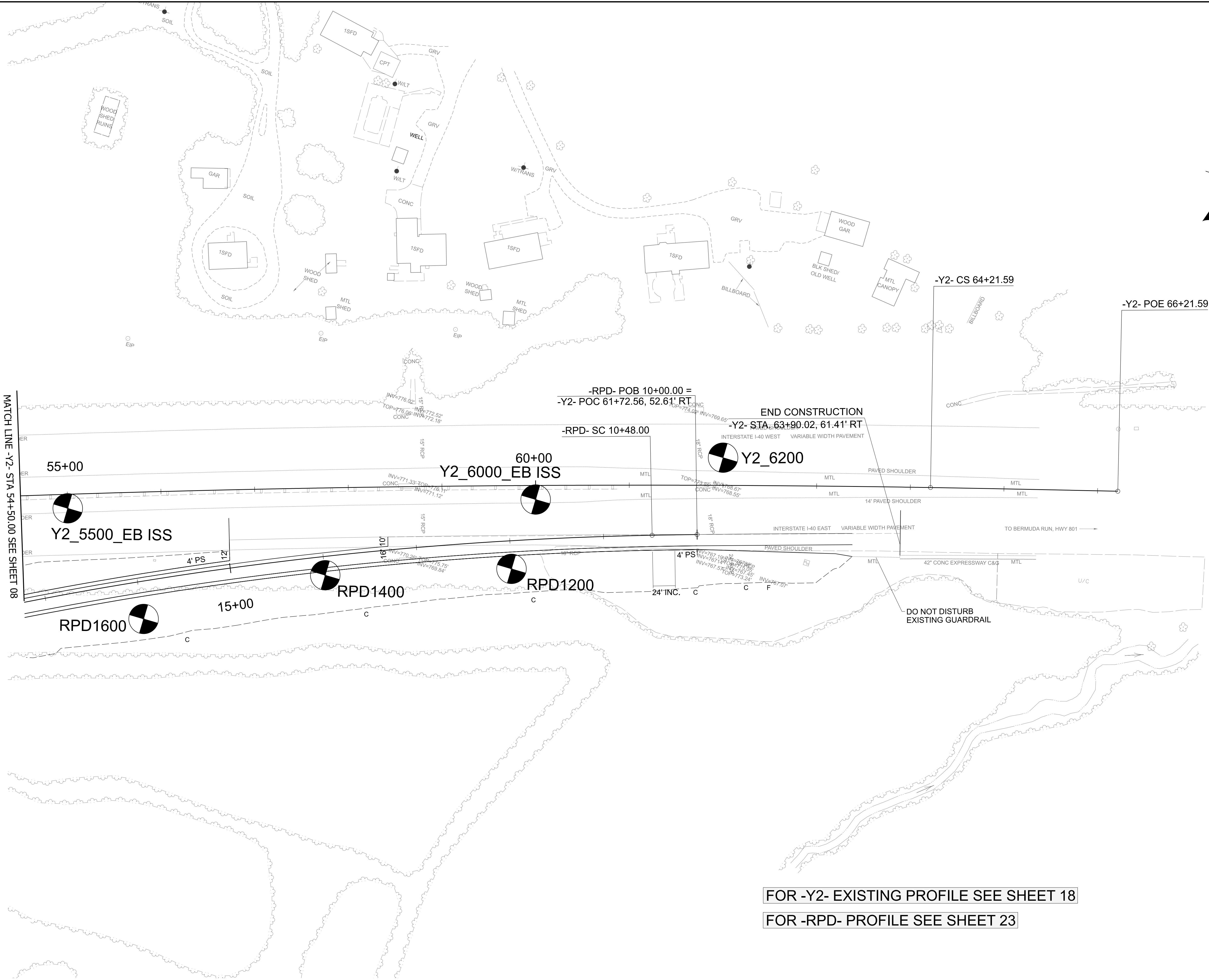
HYDRAULICS  
ENGINEER

PREPARED BY  


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



5/26/20



U-6187

2R0112

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DAVIE COUNTY

ROADWAY DESIGN UNIT  
ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

PREPARED BY

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

FOR -Y2- EXISTING PROFILE SEE SHEET 18  
FOR -RPD- PROFILE SEE SHEET 23

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                 |            |                    |                     |       |                         |                     |    |                   |                         |                                                   |     |       |                                                                                                                                            |     |
|---------------------------------------------------------------------------------------------|-----------------|------------|--------------------|---------------------|-------|-------------------------|---------------------|----|-------------------|-------------------------|---------------------------------------------------|-----|-------|--------------------------------------------------------------------------------------------------------------------------------------------|-----|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187         |                     |       | COUNTY DAVIE            |                     |    | GEOLOGIST Q. Hill |                         |                                                   |     |       |                                                                                                                                            |     |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                    |                     |       |                         |                     |    |                   |                         | GROUND WTR (ft)<br><br>HR. Dry<br><br>24 HR. FIAD |     |       |                                                                                                                                            |     |
| BORING NO. L1400                                                                            |                 |            | STATION 14+00      |                     |       | OFFSET 32 ft RT         |                     |    | ALIGNMENT -L-     |                         |                                                   |     |       |                                                                                                                                            |     |
| COLLAR ELEV. 844.0 ft                                                                       |                 |            | TOTAL DEPTH 4.4 ft |                     |       | NORTHING 817,234        |                     |    | EASTING 1,567,863 |                         |                                                   |     |       |                                                                                                                                            |     |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                 |            |                    |                     |       | DRILL METHOD Hand Auger |                     |    |                   | HAMMER TYPE N/A         |                                                   |     |       |                                                                                                                                            |     |
| DRILLER Q. Hill                                                                             |                 |            |                    | START DATE 01/04/24 |       |                         | COMP. DATE 01/04/24 |    |                   | SURFACE WATER DEPTH N/A |                                                   |     |       |                                                                                                                                            |     |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT         |                     |       | BLOWS PER FOOT          |                     |    |                   |                         | SAMP. NO.                                         | MOI | LOG   | SOIL AND ROCK DESCRIPTION                                                                                                                  |     |
|                                                                                             |                 |            | 0.5ft              | 0.5ft               | 0.5ft | 0                       | 25                  | 50 | 75                | 100                     |                                                   |     |       |                                                                                                                                            |     |
| 845                                                                                         |                 |            |                    |                     |       |                         |                     |    |                   |                         |                                                   |     |       |                                                                                                                                            |     |
| 840                                                                                         |                 |            |                    |                     |       |                         |                     |    |                   |                         | M                                                 |     | 844.0 | GROUND SURFACE                                                                                                                             | 0.0 |
|                                                                                             |                 |            |                    |                     |       |                         |                     |    |                   |                         | M                                                 |     | 841.8 | RESIDUAL<br>Medium stiff, brown and red, silty CLAY (A-6), low to medium plasticity                                                        | 2.2 |
|                                                                                             |                 |            |                    |                     |       |                         |                     |    |                   |                         |                                                   |     | 839.8 | Medium stiff, brown and tan, clayey SILT (A-5), with little sand                                                                           | 4.2 |
|                                                                                             |                 |            |                    |                     |       |                         |                     |    |                   |                         |                                                   |     | 839.6 | Medium stiff, brown and orange, silty CLAY (A-6), with trace rock fragments.<br>Boring Terminated at Elevation 839.6 ft in CLAY (RESIDUAL) | 4.4 |
|                                                                                             |                 |            |                    |                     |       |                         |                     |    |                   |                         |                                                   |     |       | Kessler DCP Test performed to estimate soil strength. Hand auger refusal at 4.4 feet.                                                      |     |

GEOTECHNICAL BORING REPORT  
BORE LOG

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| WBS 48647.1.1                                                                               |                 |                     |            | TIP U-6187              |       | COUNTY DAVIE            |    | GEOLOGIST Q. Hill |           |     |       |                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |                     |            |                         |       |                         |    | GROUND WTR (ft)   |           |     |       |                           |
| BORING NO. L1600-A                                                                          |                 | STATION 16+00       |            | OFFSET 12 ft RT         |       | ALIGNMENT -L-           |    | 0 HR. Dry         |           |     |       |                           |
| COLLAR ELEV. 843.3 ft                                                                       |                 | TOTAL DEPTH 3.5 ft  |            | NORTHING 817,415        |       | EASTING 1,567,776       |    | 24 HR. FIAD       |           |     |       |                           |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                 |                     |            | DRILL METHOD Hand Auger |       | HAMMER TYPE N/A         |    |                   |           |     |       |                           |
| DRILLER Q. Hill                                                                             |                 | START DATE 01/04/24 |            | COMP. DATE 01/04/24     |       | SURFACE WATER DEPTH N/A |    |                   |           |     |       |                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT |                         |       | BLOWS PER FOOT          |    |                   | SAMP. NO. | MOI | L O G | SOIL AND ROCK DESCRIPTION |
|                                                                                             |                 |                     | 0.5ft      | 0.5ft                   | 0.5ft | 0                       | 25 | 50                | 75        | 100 |       |                           |
| 845                                                                                         |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| 840                                                                                         |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| 843.3 GROUND SURFACE 0.0                                                                    |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| ROADWAY EMBANKMENT                                                                          |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| 840.9 Medium stiff, orange and brown, clayey SILT 2.4                                       |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| 839.8 (A-5), with some rock fragments, micaceous 3.5                                        |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| RESIDUAL                                                                                    |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| Medium stiff, brown and orange, sandy SILT (A-4), with trace rock fragments and clay lenses |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| Boring Terminated at Elevation 839.8 ft in SILT (RESIDUAL)                                  |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| Kessler DCP Test performed to estimate soil strength. Hand auger refusal at 3.5 feet.       |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |

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|-----------------------------------------------------------------------------------------------------------------|-----------------|---------------------|------------|-------------------------|-------|-------------------------|----|-------------------|-----------|-----|-------|---------------------------|
| WBS 48647.1.1                                                                                                   |                 |                     |            | TIP U-6187              |       | COUNTY DAVIE            |    | GEOLOGIST Q. Hill |           |     |       |                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40                     |                 |                     |            |                         |       |                         |    | GROUND WTR (ft)   |           |     |       |                           |
| BORING NO. L1600-B                                                                                              |                 | STATION 16+00       |            | OFFSET 60 ft LT         |       | ALIGNMENT -L-           |    | 0 HR. Dry         |           |     |       |                           |
| COLLAR ELEV. 839.0 ft                                                                                           |                 | TOTAL DEPTH 2.4 ft  |            | NORTHING 817,416        |       | EASTING 1,567,749       |    | 24 HR. FIAD       |           |     |       |                           |
| DRILL RIG/HAMMER EFF./DATE N/A                                                                                  |                 |                     |            | DRILL METHOD Hand Auger |       | HAMMER TYPE N/A         |    |                   |           |     |       |                           |
| DRILLER Q. Hill                                                                                                 |                 | START DATE 01/04/24 |            | COMP. DATE 01/04/24     |       | SURFACE WATER DEPTH N/A |    |                   |           |     |       |                           |
| ELEV (ft)                                                                                                       | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT |                         |       | BLOWS PER FOOT          |    |                   | SAMP. NO. | MOI | L O G | SOIL AND ROCK DESCRIPTION |
|                                                                                                                 |                 |                     | 0.5ft      | 0.5ft                   | 0.5ft | 0                       | 25 | 50                | 75        | 100 |       |                           |
| 840                                                                                                             |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| 839.0 GROUND SURFACE 0.0                                                                                        |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| ROADWAY EMBANKMENT                                                                                              |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| 836.6 Medium dense, brown and orange, sandy SILT (A-4), with trace rock fragments, low to medium plasticity 2.4 |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| Boring Terminated at Elevation 836.6 ft in SILT (ROADWAY EMBANKMENT)                                            |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |
| Kessler DCP Test performed to estimate soil strength; Hand auger refusal at 2.4 feet.                           |                 |                     |            |                         |       |                         |    |                   |           |     |       |                           |



GEOTECHNICAL BORING REPORT  
BORE LOG

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| WBS 48647.1.1                                                                               |                 |            |                     | TIP U-6187 |       | COUNTY DAVIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Hill       |                       |                 |           |     |     |                           |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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      |
| BORING NO. L1800                                                                            |                 |            | STATION 18+00       |            |       | OFFSET CL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| COLLAR ELEV. 833.2 ft                                                                       |                 |            | TOTAL DEPTH 14.8 ft |            |       | NORTHING 817,598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | EASTING 1,567,696       |                       | 24 HR.          | Dry       |     |     |                           |            |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |            |       | DRILL METHOD H.S. Augers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/14/23 |            |       | COMP. DATE 11/15/23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |            |       | BLOWS PER FOOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION |            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft      | 0.5ft | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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(ft)                | DEPTH (ft) |
| 835                                                                                         |                 |            |                     |            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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      |
| 830                                                                                         | 833.2           | 0.0        | 5                   | 8          | 8     | 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|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       |            |     |                                                                                     |                                                                                                                          |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|------------|-------|--------------------------|----|-------------------|-------------------------|-----------------------|------------|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            |                     | TIP U-6187 |       | COUNTY DAVIE             |    | GEOLOGIST Q. Hill |                         |                       |            |     |                                                                                     |                                                                                                                          |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |            |       |                          |    |                   |                         | GROUND WTR (ft)       |            |     |                                                                                     |                                                                                                                          |
| BORING NO. L2050                                                                            |                 |            | STATION 20+50       |            |       | OFFSET CL                |    |                   | ALIGNMENT -L-           |                       | 0 HR. 31.7 |     |                                                                                     |                                                                                                                          |
| COLLAR ELEV. 818.5 ft                                                                       |                 |            | TOTAL DEPTH 35.0 ft |            |       | NORTHING 817,833         |    |                   | EASTING 1,567,610       |                       | 24 HR. 5.5 |     |                                                                                     |                                                                                                                          |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |            |       | DRILL METHOD H.S. Augers |    |                   |                         | HAMMER TYPE Automatic |            |     |                                                                                     |                                                                                                                          |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/14/23 |            |       | COMP. DATE 11/15/23      |    |                   | SURFACE WATER DEPTH N/A |                       |            |     |                                                                                     |                                                                                                                          |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |            |       | BLOWS PER FOOT           |    |                   |                         |                       | SAMP. NO.  | MOI | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                                                |
|                                                                                             |                 |            | 0.5ft               | 0.5ft      | 0.5ft | 0                        | 25 | 50                | 75                      | 100                   |            |     |                                                                                     |                                                                                                                          |
| 820                                                                                         |                 |            |                     |            |       |                          |    |                   |                         |                       |            |     |                                                                                     |                                                                                                                          |
|                                                                                             | 818.5           | 0.0        | 3                   | 5          | 5     |                          |    |                   |                         |                       |            |     |                                                                                     | 818.5 GROUND SURFACE 0.0                                                                                                 |
| 815                                                                                         | 815.0           | 3.5        | 3                   | 3          | 4     |                          |    |                   |                         |                       |            | M   |  | RESIDUAL<br>Brown, silty and sandy CLAY (A-6), medium plasticity<br><br>Shelby tube taken from 4.0 - 6.0 ft. Not sampled |
|                                                                                             | 812.0           | 6.5        | 2                   | 2          | 4     |                          |    |                   |                         |                       |            |     |                                                                                     |                                                                                                                          |
| 810                                                                                         | 810.0           | 8.5        | 6                   | 10         | 15    |                          |    |                   |                         |                       |            | W   |                                                                                     |                                                                                                                          |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       |            | W   |                                                                                     | Brown and tan, clayey SILT (A-5 (0)) 8.5                                                                                 |
| 805                                                                                         | 805.0           | 13.5       | 13                  | 16         | 18    |                          |    |                   |                         |                       |            |     |                                                                                     |                                                                                                                          |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       | SS-25      | 40% |                                                                                     | 801.5                                                                                                                    |
| 800                                                                                         | 800.0           | 18.5       | 10                  | 13         | 15    |                          |    |                   |                         |                       |            |     |                                                                                     | Gray, tan, and brown, silty SAND (A-2-4), with trace rock fragments and clayey lenses                                    |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       |            | W   |                                                                                     |                                                                                                                          |
| 795                                                                                         | 795.0           | 23.5       | 13                  | 14         | 20    |                          |    |                   |                         |                       |            |     |                                                                                     |                                                                                                                          |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       |            | W   |                                                                                     |                                                                                                                          |
| 790                                                                                         | 790.0           | 28.5       | 7                   | 10         | 13    |                          |    |                   |                         |                       |            |     |                                                                                     |                                                                                                                          |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       |            | W   |                                                                                     |                                                                                                                          |
| 785                                                                                         | 785.0           | 33.5       | 17                  | 25         | 47    |                          |    |                   |                         |                       |            |     |                                                                                     |                                                                                                                          |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       |            | W   |                                                                                     | 783.5                                                                                                                    |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                       |            |     |                                                                                     | Boring Terminated at Elevation 783.5 ft in SAND (RESIDUAL) 35.0                                                          |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                          |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|------------|------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |            |                                                                                          |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |            |                                                                                          |
| BORING NO. L2450                                                                            |                 |            | STATION 24+50       |       |       | OFFSET CL                |    |    | ALIGNMENT -L-           |     |           | 0 HR. Dry  |                                                                                          |
| COLLAR ELEV. 827.0 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 818,213         |    |    | EASTING 1,567,486       |     |           | 24 HR. Dry |                                                                                          |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |            |                                                                                          |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/14/23 |       |       | COMP. DATE 11/15/23      |    |    | SURFACE WATER DEPTH N/A |     |           |            |                                                                                          |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | LOG        | SOIL AND ROCK DESCRIPTION                                                                |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |            |                                                                                          |
| 830                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                          |
|                                                                                             | 827.0           | 0.0        |                     |       |       |                          |    |    |                         |     |           |            | 827.0 GROUND SURFACE 0.0                                                                 |
| 825                                                                                         |                 |            | 5                   | 9     | 8     |                          |    |    |                         |     |           |            | <b>RESIDUAL</b><br>Brown and orange, silty CLAY (A-6), saprolitic, with manganese oxides |
|                                                                                             | 823.5           | 3.5        | 8                   | 8     | 7     |                          |    |    |                         |     |           |            |                                                                                          |
|                                                                                             | 820.5           | 6.5        | 4                   | 9     | 12    |                          |    |    |                         |     |           |            |                                                                                          |
| 820                                                                                         |                 |            | 7                   | 6     | 7     |                          |    |    |                         |     |           |            |                                                                                          |
|                                                                                             | 818.5           | 8.5        |                     |       |       |                          |    |    |                         |     |           |            |                                                                                          |
| 815                                                                                         |                 |            | 8                   | 10    | 10    |                          |    |    |                         |     |           |            | 821.0 Gray and brown, clayey SILT (A-5), micaceous, with manganese oxides 6.0            |
|                                                                                             | 813.5           | 13.5       |                     |       |       |                          |    |    |                         |     |           |            |                                                                                          |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            | 812.0 Boring Terminated at Elevation 812.0 ft in SILT (RESIDUAL) 15.0                    |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |            |     |                                                                           |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------------|------------|-----|---------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |            |     |                                                                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |            |     |                                                                           |
| BORING NO. L2850                                                                            |                 |            | STATION 28+50       |       |       | OFFSET CL                |    |    | ALIGNMENT -L-           |     |                 | 0 HR. Dry  |     |                                                                           |
| COLLAR ELEV. 843.7 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 818,601         |    |    | EASTING 1,567,388       |     |                 | 24 HR. Dry |     |                                                                           |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |            |     |                                                                           |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/14/23 |       |       | COMP. DATE 11/15/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |            |     |                                                                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI        | LOG | SOIL AND ROCK DESCRIPTION                                                 |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |            |     |                                                                           |
| 845                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |            |     |                                                                           |
|                                                                                             | 843.7           | 0.0        |                     |       |       |                          |    |    |                         |     |                 |            |     | 843.7 GROUND SURFACE 0.0                                                  |
|                                                                                             |                 |            | 4                   | 7     | 6     |                          |    |    |                         |     |                 |            |     |                                                                           |
| 840                                                                                         | 840.2           | 3.5        |                     |       |       |                          |    |    |                         |     | SS-1            | 18%        |     | Orange and white, sandy SILT (A-4 (3)), medium plastic 3.5                |
|                                                                                             |                 |            | 5                   | 6     | 6     |                          |    |    |                         |     |                 | M          |     | Orange and white, clayey SILT (A-5), medium to high plasticity            |
|                                                                                             | 837.2           | 6.5        |                     |       |       |                          |    |    |                         |     |                 |            |     |                                                                           |
|                                                                                             |                 |            | 4                   | 3     | 4     |                          |    |    |                         |     |                 | M          |     |                                                                           |
| 835                                                                                         | 835.2           | 8.5        |                     |       |       |                          |    |    |                         |     |                 |            |     | 835.2 8.5                                                                 |
|                                                                                             |                 |            | 3                   | 2     | 2     |                          |    |    |                         |     |                 | M          |     | Tan, orange, and white, sandy SILT (A-4), saprolitic, highly plastic 10.0 |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |            |     | Boring Terminated at Elevation 833.7 ft in SILT (RESIDUAL)                |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

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|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------------|------------|-----|------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |            |     |                                                                        |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |            |     |                                                                        |
| BORING NO. L3300                                                                            |                 |            | STATION 33+00       |       |       | OFFSET CL                |    |    | ALIGNMENT -L-           |     |                 | 0 HR. Dry  |     |                                                                        |
| COLLAR ELEV. 846.1 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 819,043         |    |    | EASTING 1,567,308       |     |                 | 24 HR. Dry |     |                                                                        |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |            |     |                                                                        |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/14/23 |       |       | COMP. DATE 11/15/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |            |     |                                                                        |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI        | LOG | SOIL AND ROCK DESCRIPTION                                              |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |            |     |                                                                        |
| 850                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |            |     |                                                                        |
| 845                                                                                         | 846.1           | 0.0        | 5                   | 7     | 7     |                          |    |    |                         |     |                 |            |     | 846.1 GROUND SURFACE 0.0                                               |
| 840                                                                                         | 842.6           | 3.5        | 6                   | 7     | 9     |                          |    |    |                         |     |                 |            |     | RESIDUAL<br>Orange, silty CLAY (A-7-5 (52)), medium to high plasticity |
|                                                                                             | 839.6           | 6.5        | 5                   | 4     | 7     |                          |    |    |                         |     |                 |            |     |                                                                        |
|                                                                                             | 837.6           | 8.5        | 3                   | 4     | 8     |                          |    |    |                         |     |                 |            |     |                                                                        |
| 835                                                                                         | 832.6           | 13.5       | 1                   | 3     | 5     |                          |    |    |                         |     |                 |            |     | 834.1 12.0                                                             |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |            |     | 831.1 15.0                                                             |
| Boring Terminated at Elevation 831.1 ft in SILT (RESIDUAL)                                  |                 |            |                     |       |       |                          |    |    |                         |     |                 |            |     |                                                                        |



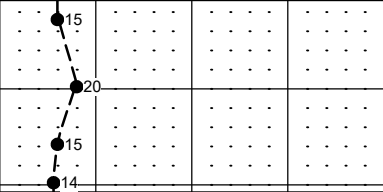
NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                       |               |            |                     |       |                |    |                     |                          |     |              |                         |                       |                           |                 |            |  |
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| WBS 48647.1.1                                                                               |                       |               |            |                     |       | TIP U-6187     |    |                     | COUNTRY DAVIE            |     |              | GEOLOGIST Q. Hill       |                       |                           |                 |            |  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |            |                     |       |                |    |                     |                          |     |              |                         |                       |                           | GROUND WTR (ft) |            |  |
| BORING NO. L3700                                                                            |                       |               |            | STATION 37+00       |       |                |    | OFFSET CL           |                          |     |              | ALIGNMENT -L-           |                       |                           |                 | 0 HR. Dry  |  |
| COLLAR ELEV. 848.9 ft                                                                       |                       |               |            | TOTAL DEPTH 15.0 ft |       |                |    | NORTHING 819,443    |                          |     |              | EASTING 1,567,308       |                       |                           |                 | 24 HR. Dry |  |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                       |               |            |                     |       |                |    |                     | DRILL METHOD H.S. Augers |     |              |                         | HAMMER TYPE Automatic |                           |                 |            |  |
| DRILLER J. Kiker                                                                            |                       |               |            | START DATE 11/14/23 |       |                |    | COMP. DATE 11/15/23 |                          |     |              | SURFACE WATER DEPTH N/A |                       |                           |                 |            |  |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT |                     |       | BLOWS PER FOOT |    |                     |                          |     | SAMP.<br>NO. | /<br>MOI                | L<br>O<br>G           | SOIL AND ROCK DESCRIPTION |                 |            |  |
|                                                                                             |                       |               | 0.5ft      | 0.5ft               | 0.5ft | 0              | 25 | 50                  | 75                       | 100 |              |                         |                       |                           |                 |            |  |
| 850                                                                                         |                       |               |            |                     |       |                |    |                     |                          |     |              |                         |                       |                           |                 |            |  |
|                                                                                             | 848.9                 | 0.0           |            | 3                   | 8     | 10             |    |                     |                          |     |              | SS-57                   | 19%                   |                           |                 |            |  |
| 845                                                                                         | 845.4                 | 3.5           |            | 10                  | 7     | 7              |    |                     |                          |     |              |                         | M                     |                           |                 |            |  |
|                                                                                             | 842.4                 | 6.5           |            | 8                   | 13    | 13             |    |                     |                          |     |              |                         | M                     |                           |                 |            |  |
| 840                                                                                         | 840.4                 | 8.5           |            | 5                   | 9     | 13             |    |                     |                          |     |              |                         | M                     |                           |                 |            |  |
|                                                                                             |                       |               |            |                     |       |                |    |                     |                          |     |              |                         |                       |                           |                 |            |  |
| 835                                                                                         | 835.4                 | 13.5          |            | 4                   | 2     | 6              |    |                     |                          |     |              |                         | M                     |                           |                 |            |  |
|                                                                                             |                       |               |            |                     |       |                |    |                     |                          |     |              |                         |                       |                           |                 |            |  |

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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                       |                                            |     |                                                                                     |                                                                           |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                       |                                            |     |                                                                                     |                                                                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |                       | GROUND WTR (ft)<br>0 HR. Dry<br>24 HR. Dry |     |                                                                                     |                                                                           |
| BORING NO. L4100                                                                            |                 |            | STATION 41+00       |       |       | OFFSET CL                |    |    | ALIGNMENT -L-           |                       |                                            |     |                                                                                     |                                                                           |
| COLLAR ELEV. 849.8 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 819,837         |    |    | EASTING 1,567,376       |                       |                                            |     |                                                                                     |                                                                           |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    |                         | HAMMER TYPE Automatic |                                            |     |                                                                                     |                                                                           |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/14/23 |       |       | COMP. DATE 11/15/23      |    |    | SURFACE WATER DEPTH N/A |                       |                                            |     |                                                                                     |                                                                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                       | SAMP. NO.                                  | MOI | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                 |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100                   |                                            |     |                                                                                     |                                                                           |
| 850                                                                                         | 849.8           | 0.0        | 5                   | 8     | 10    |                          |    |    |                         |                       |                                            |     |                                                                                     | 849.8 GROUND SURFACE 0.0                                                  |
| 845                                                                                         | 846.3           | 3.5        | 6                   | 6     | 10    |                          |    |    |                         |                       |                                            | M   |  | RESIDUAL<br>Orange and brown, silty CLAY (A-6), medium to high plasticity |
|                                                                                             | 843.3           | 6.5        | 3                   | 4     | 5     |                          |    |    |                         |                       |                                            | M   |                                                                                     | 843.8 6.0                                                                 |
| 840                                                                                         | 841.3           | 8.5        | 3                   | 3     | 5     |                          |    |    |                         |                       |                                            | M   |                                                                                     | Orange and tan, SILT (A-5), micaceous, low to medium plasticity           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                       |                                            | M   |                                                                                     | 839.8 10.0                                                                |
| Boring Terminated at Elevation 839.8 ft in SILT (RESIDUAL)                                  |                 |            |                     |       |       |                          |    |    |                         |                       |                                            |     |                                                                                     |                                                                           |

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |                     |       |       |                                                                                   |    |    |                         |     |           |            |                                                                                     |                                                                        |            |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|-----------------------------------------------------------------------------------|----|----|-------------------------|-----|-----------|------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE                                                                      |    |    | GEOLOGIST Q. Hill       |     |           |            |                                                                                     |                                                                        |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                                                                                   |    |    | GROUND WTR (ft)         |     |           |            |                                                                                     |                                                                        |            |
| BORING NO. L4300                                                                            |                 |            | STATION 43+00       |       |       | OFFSET CL                                                                         |    |    | ALIGNMENT -L-           |     |           | 0 HR. Dry  |                                                                                     |                                                                        |            |
| COLLAR ELEV. 854.6 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 820,028                                                                  |    |    | EASTING 1,567,435       |     |           | 24 HR. Dry |                                                                                     |                                                                        |            |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers                                                          |    |    | HAMMER TYPE Automatic   |     |           |            |                                                                                     |                                                                        |            |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/15/23 |       |       | COMP. DATE 11/16/23                                                               |    |    | SURFACE WATER DEPTH N/A |     |           |            |                                                                                     |                                                                        |            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT                                                                    |    |    |                         |     | SAMP. NO. | LOG        | SOIL AND ROCK DESCRIPTION                                                           |                                                                        |            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                                                                                 | 25 | 50 | 75                      | 100 |           |            |                                                                                     | ELEV. (ft)                                                             | DEPTH (ft) |
| 855                                                                                         | 854.6           | 0.0        |                     |       |       |                                                                                   |    |    |                         |     |           |            |                                                                                     | 854.6                                                                  | 0.0        |
| 850                                                                                         | 851.1           | 3.5        | 7                   | 9     | 6     |  |    |    |                         |     |           | M          |  | RESIDUAL<br>Orange, silty CLAY (A-7-6 (25)), medium to high plasticity |            |
|                                                                                             | 850             | 851.1      | 3.5                 | 7     | 8     |                                                                                   |    |    |                         |     | 12        | SS-71      |                                                                                     |                                                                        |            |
| 845                                                                                         | 848.1           | 6.5        |                     |       |       |                                                                                   |    |    |                         |     |           | M          |  | 848.1                                                                  | 6.5        |
|                                                                                             | 846.1           | 8.5        | 5                   | 5     | 10    |                                                                                   |    |    |                         |     |           | M          |                                                                                     | 844.6                                                                  | 10.0       |
|                                                                                             |                 |            | 4                   | 7     | 7     |                                                                                   |    |    |                         |     |           |            |                                                                                     | Boring Terminated at Elevation 844.6 ft in SILT (RESIDUAL)             |            |

|                                                                                             |                 |                     |            |                          |       |                         |    |                   |    |           |     |                                                                                     |                                                            |
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| WBS 48647.1.1                                                                               |                 |                     |            | TIP U-6187               |       | COUNTY DAVIE            |    | GEOLOGIST Q. Hill |    |           |     |                                                                                     |                                                            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |                     |            |                          |       |                         |    | GROUND WTR (ft)   |    |           |     |                                                                                     |                                                            |
| BORING NO. L4500                                                                            |                 | STATION 45+00       |            | OFFSET 30 ft LT          |       | ALIGNMENT -L-           |    | 0 HR. Dry         |    |           |     |                                                                                     |                                                            |
| COLLAR ELEV. 859.5 ft                                                                       |                 | TOTAL DEPTH 15.0 ft |            | NORTHING 820,225         |       | EASTING 1,567,480       |    | 24 HR. Dry        |    |           |     |                                                                                     |                                                            |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |                     |            | DRILL METHOD H.S. Augers |       | HAMMER TYPE Automatic   |    |                   |    |           |     |                                                                                     |                                                            |
| DRILLER J. Kiker                                                                            |                 | START DATE 11/15/23 |            | COMP. DATE 11/16/23      |       | SURFACE WATER DEPTH N/A |    |                   |    |           |     |                                                                                     |                                                            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT |                          |       | BLOWS PER FOOT          |    |                   |    | SAMP. NO. | LOG | SOIL AND ROCK DESCRIPTION                                                           |                                                            |
|                                                                                             |                 |                     | 0.5ft      | 0.5ft                    | 0.5ft | 0                       | 25 | 50                | 75 | 100       | MOI |                                                                                     | LOG                                                        |
| 860                                                                                         | 859.5           | 0.0                 | 5          | 7                        | 10    |                         |    |                   |    |           |     |                                                                                     | 859.5 GROUND SURFACE 0.0                                   |
| 855                                                                                         | 856.0           | 3.5                 | 7          | 8                        | 14    |                         |    |                   |    |           | M   |  | 856.5 3.0                                                  |
|                                                                                             | 853.0           | 6.5                 | 4          | 4                        | 6     |                         |    |                   |    |           | M   |  | Orange, silty CLAY (A-6), medium to high plasticity        |
| 850                                                                                         | 851.0           | 8.5                 | 5          | 4                        | 6     |                         |    |                   |    |           | M   |  | 847.5 12.0                                                 |
|                                                                                             | 846.0           | 13.5                | 2          | 4                        | 4     |                         |    |                   |    |           | M   |  | 844.5 15.0                                                 |
| 845                                                                                         |                 |                     |            |                          |       |                         |    |                   |    |           |     |                                                                                     | Boring Terminated at Elevation 844.5 ft in SILT (RESIDUAL) |

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|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----------------|------------|-----|-----|--------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                 |            |     |     |                                                              |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         | GROUND WTR (ft) |            |     |     |                                                              |
| BORING NO. L4900                                                                            |                 |            | STATION 49+00       |       |       | OFFSET 30 ft LT          |    |    | ALIGNMENT -L-           |                 | 0 HR. Dry  |     |     |                                                              |
| COLLAR ELEV. 861.7 ft                                                                       |                 |            | TOTAL DEPTH 20.0 ft |       |       | NORTHING 820,596         |    |    | EASTING 1,567,630       |                 | 24 HR. Dry |     |     |                                                              |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                 |            |     |     |                                                              |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/15/23 |       |       | COMP. DATE 11/16/23      |    |    | SURFACE WATER DEPTH N/A |                 |            |     |     |                                                              |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                 | SAMP. NO.  | MOI | LOG | SOIL AND ROCK DESCRIPTION                                    |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100             |            |     |     |                                                              |
| 865                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
| 860                                                                                         | 861.7           | 0.0        | 4                   | 5     | 9     |                          |    |    |                         |                 |            |     |     | 861.7 GROUND SURFACE 0.0                                     |
|                                                                                             | 858.2           | 3.5        | 8                   | 8     | 13    |                          |    |    |                         |                 |            |     |     | RESIDUAL<br>Orange, silty CLAY (A-7-5 (29)), high plasticity |
| 855                                                                                         | 855.2           | 6.5        | 8                   | 10    | 8     |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             | 853.2           | 8.5        | 5                   | 5     | 3     |                          |    |    |                         |                 |            |     |     | M                                                            |
| 850                                                                                         | 848.2           | 13.5       | 6                   | 5     | 6     |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             | 843.2           | 18.5       | 5                   | 4     | 9     |                          |    |    |                         |                 |            |     |     | M                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |     |                                                              |
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NCDOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |                                                                                      |                           |  |           |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----------------|------------|-----|--------------------------------------------------------------------------------------|---------------------------|--|-----------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                 |            |     |                                                                                      |                           |  |           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         | GROUND WTR (ft) |            |     |                                                                                      |                           |  |           |
| BORING NO. L5100                                                                            |                 |            | STATION 51+00       |       |       | OFFSET 30 ft RT          |    |    | ALIGNMENT -L-           |                 | 0 HR. Dry  |     |                                                                                      |                           |  |           |
| COLLAR ELEV. 852.0 ft                                                                       |                 |            | TOTAL DEPTH 25.0 ft |       |       | NORTHING 820,761         |    |    | EASTING 1,567,759       |                 | 24 HR. Dry |     |                                                                                      |                           |  |           |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                 |            |     |                                                                                      |                           |  |           |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/15/23 |       |       | COMP. DATE 11/16/23      |    |    | SURFACE WATER DEPTH N/A |                 |            |     |                                                                                      |                           |  |           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                 | SAMP. NO.  | MOI | LOG                                                                                  | SOIL AND ROCK DESCRIPTION |  |           |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100             |            |     |                                                                                      |                           |  |           |
| 855                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |                                                                                      |                           |  |           |
|                                                                                             | 852.0           | 0.0        |                     |       |       |                          |    |    |                         |                 |            |     |                                                                                      | 852.0 GROUND SURFACE 0.0  |  |           |
| 850                                                                                         |                 |            | 5                   | 8     | 10    |                          |    |    |                         |                 |            |     |  |                           |  | 849.0 3.0 |
|                                                                                             | 848.5           | 3.5        |                     |       |       |                          |    |    |                         |                 |            | M   |                                                                                      |                           |  |           |
|                                                                                             |                 |            | 11                  | 10    | 13    |                          |    |    |                         |                 |            | M   |                                                                                      |                           |  |           |
| 845                                                                                         |                 |            | 6                   | 8     | 9     |                          |    |    |                         |                 |            | M   |                                                                                      |                           |  |           |
|                                                                                             | 843.5           | 8.5        | 4                   | 6     | 6     |                          |    |    |                         |                 | SS-100     | 30% |                                                                                      |                           |  |           |
| 840                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |                                                                                      |                           |  |           |
|                                                                                             | 838.5           | 13.5       | 4                   | 2     | 4     |                          |    |    |                         |                 |            | M   |                                                                                      |                           |  |           |
| 835                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |                                                                                      |                           |  |           |
|                                                                                             | 833.5           | 18.5       | 7                   | 11    | 10    |                          |    |    |                         |                 |            | M   |                                                                                      |                           |  |           |
| 830                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |                                                                                      |                           |  |           |
|                                                                                             | 828.5           | 23.5       | 7                   | 9     | 14    |                          |    |    |                         |                 |            | M   |                                                                                      | 827.0 25.0                |  |           |
| Boring Terminated at Elevation 827.0 ft in SILT (RESIDUAL)                                  |                 |            |                     |       |       |                          |    |    |                         |                 |            |     |                                                                                      |                           |  |           |

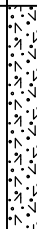


NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT GDT 5/3/24

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|                                                                                             |                 |            |                     |       |       |                                     |    |    |                         |     |                 |             |                                   |                                                                                                          |            |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|-------------------------------------|----|----|-------------------------|-----|-----------------|-------------|-----------------------------------|----------------------------------------------------------------------------------------------------------|------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE                        |    |    | GEOLOGIST Q. Hill       |     |                 |             |                                   |                                                                                                          |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                                     |    |    |                         |     | GROUND WTR (ft) |             |                                   |                                                                                                          |            |
| BORING NO. L5700                                                                            |                 |            | STATION 57+00       |       |       | OFFSET 30 ft LT                     |    |    | ALIGNMENT -L-           |     |                 | 0 HR. Dry   |                                   |                                                                                                          |            |
| COLLAR ELEV. 838.0 ft                                                                       |                 |            | TOTAL DEPTH 30.0 ft |       |       | NORTHING 821,358                    |    |    | EASTING 1,567,831       |     |                 | 24 HR. FIAD |                                   |                                                                                                          |            |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers            |    |    | HAMMER TYPE Automatic   |     |                 |             |                                   |                                                                                                          |            |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/15/23 |       |       | COMP. DATE 11/15/23                 |    |    | SURFACE WATER DEPTH N/A |     |                 |             |                                   |                                                                                                          |            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT                      |    |    |                         |     | SAMP. NO.       | MOI         | LOG                               | SOIL AND ROCK DESCRIPTION                                                                                |            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                                   | 25 | 50 | 75                      | 100 |                 |             |                                   | ELEV. (ft)                                                                                               | DEPTH (ft) |
| 840                                                                                         |                 |            |                     |       |       |                                     |    |    |                         |     |                 |             |                                   |                                                                                                          |            |
| 835                                                                                         | 838.0           | 0.0        | 4                   | 6     | 7     | <div><div></div><div>13</div></div> |    |    |                         |     |                 | M           | <div><div></div><div></div></div> | 838.0                                                                                                    | 0.0        |
|                                                                                             | 834.5           | 3.5        | 6                   | 8     | 9     | <div><div></div><div>17</div></div> |    |    |                         |     |                 | M           |                                   | <b>RESIDUAL</b><br>Orange, silty CLAY (A-6), micaceous, with manganese oxides, medium to high plasticity |            |
| 830                                                                                         | 831.5           | 6.5        | 4                   | 5     | 7     | <div><div></div><div>12</div></div> |    |    |                         |     |                 | M           | <div><div></div><div></div></div> | 829.5                                                                                                    | 8.5        |
|                                                                                             | 829.5           | 8.5        | 5                   | 10    | 10    | <div><div></div><div>20</div></div> |    |    |                         |     |                 | M           |                                   |                                                                                                          |            |
| 825                                                                                         | 824.5           | 13.5       | 20                  | 17    | 18    | <div><div></div><div>35</div></div> |    |    |                         |     |                 | M           | <div><div></div><div></div></div> |                                                                                                          |            |
|                                                                                             | 819.5           | 18.5       | 10                  | 7     | 8     | <div><div></div><div>15</div></div> |    |    |                         |     | SS-125          | 29%         |                                   |                                                                                                          |            |
| 815                                                                                         | 814.5           | 23.5       | 3                   | 8     | 8     | <div><div></div><div>16</div></div> |    |    |                         |     |                 | M           | <div><div></div><div></div></div> |                                                                                                          |            |
| 810                                                                                         | 809.5           | 28.5       | 3                   | 5     | 4     | <div><div></div><div>9</div></div>  |    |    |                         |     |                 | M           |                                   | 808.0                                                                                                    | 30.0       |
| Boring Terminated at Elevation 808.0 ft in SILT (RESIDUAL)                                  |                 |            |                     |       |       |                                     |    |    |                         |     |                 |             |                                   |                                                                                                          |            |

|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |             |     |                                                                                     |                                                                                                   |
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| WBS 48647.1.1                                                                               |                 |            |                     | TIP U-6187 |       | COUNTY DAVIE             |    | GEOLOGIST Q. Hill |                         |                 |             |     |                                                                                     |                                                                                                   |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |            |       |                          |    |                   |                         | GROUND WTR (ft) |             |     |                                                                                     |                                                                                                   |
| BORING NO. L5850                                                                            |                 |            | STATION 58+50       |            |       | OFFSET CL                |    |                   | ALIGNMENT -L-           |                 | 0 HR. Dry   |     |                                                                                     |                                                                                                   |
| COLLAR ELEV. 821.6 ft                                                                       |                 |            | TOTAL DEPTH 25.0 ft |            |       | NORTHING 821,504         |    |                   | EASTING 1,567,869       |                 | 24 HR. FIAD |     |                                                                                     |                                                                                                   |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |            |       | DRILL METHOD H.S. Augers |    |                   | HAMMER TYPE Automatic   |                 |             |     |                                                                                     |                                                                                                   |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/17/23 |            |       | COMP. DATE 11/17/23      |    |                   | SURFACE WATER DEPTH N/A |                 |             |     |                                                                                     |                                                                                                   |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |            |       | BLOWS PER FOOT           |    |                   |                         |                 | SAMP. NO.   | MOI | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                         |
|                                                                                             |                 |            | 0.5ft               | 0.5ft      | 0.5ft | 0                        | 25 | 50                | 75                      | 100             |             |     |                                                                                     |                                                                                                   |
| 825                                                                                         |                 |            |                     |            |       |                          |    |                   |                         |                 |             |     |                                                                                     |                                                                                                   |
|                                                                                             | 821.6           | 0.0        | 3                   | 2          | 2     |                          |    |                   |                         |                 |             |     |                                                                                     | 821.6 GROUND SURFACE 0.0                                                                          |
| 820                                                                                         | 818.1           | 3.5        | 2                   | 2          | 2     |                          |    |                   |                         |                 |             | M   |  | RESIDUAL<br>Orange, clayey SILT (A-5), micaceous, with manganese oxides, low to medium plasticity |
|                                                                                             | 815.1           | 6.5        | 2                   | 2          | 5     |                          |    |                   |                         |                 |             | M   |                                                                                     |                                                                                                   |
| 815                                                                                         | 813.1           | 8.5        | 2                   | 2          | 5     |                          |    |                   |                         |                 |             | M   |                                                                                     |                                                                                                   |
|                                                                                             | 808.1           | 13.5       | 3                   | 3          | 8     |                          |    |                   |                         |                 |             | M   |                                                                                     |                                                                                                   |
| 810                                                                                         | 803.1           | 18.5       | 2                   | 2          | 4     |                          |    |                   |                         |                 | SS-197      | M   |                                                                                     | 809.6 White, gray, and orange, SILT (A-4 (0)), low to medium plasticity, saprolitic 12.0          |
| 805                                                                                         | 803.1           | 18.5       | 2                   | 2          | 4     |                          |    |                   |                         |                 |             | M   |                                                                                     |                                                                                                   |
| 800                                                                                         | 798.1           | 23.5       | 2                   | 3          | 5     |                          |    |                   |                         |                 |             | M   |                                                                                     | 796.6 Boring Terminated at Elevation 796.6 ft in SILT (RESIDUAL) 25.0                             |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |             |     |                                                                                     |                                                                                                   |

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| WBS 48647.1.1                                                                               |                       |               | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |              |             |     |                           |                                                                                            |      |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |              |             |     |                           |                                                                                            |      |
| BORING NO. L5900                                                                            |                       |               | STATION 59+00       |       |       | OFFSET CL                |    |    | ALIGNMENT -L-           |     |              | 0 HR. Dry   |     |                           |                                                                                            |      |
| COLLAR ELEV. 818.5 ft                                                                       |                       |               | TOTAL DEPTH 15.0 ft |       |       | NORTHING 821,555         |    |    | EASTING 1,567,870       |     |              | 24 HR. FIAD |     |                           |                                                                                            |      |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                       |               |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |              |             |     |                           |                                                                                            |      |
| DRILLER J. Kiker                                                                            |                       |               | START DATE 11/15/23 |       |       | COMP. DATE 11/15/23      |    |    | SURFACE WATER DEPTH N/A |     |              |             |     |                           |                                                                                            |      |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP.<br>NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION | DEPTH (ft)                                                                                 |      |
|                                                                                             |                       |               | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |              |             |     |                           |                                                                                            |      |
| 820                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
| 815                                                                                         | 818.5                 | 0.0           |                     |       |       |                          |    |    |                         |     |              |             |     | 818.5                     | GROUND SURFACE                                                                             | 0.0  |
|                                                                                             | 815.0                 | 3.5           | 2                   | 2     | 1     |                          |    |    |                         |     |              | M           |     | 815.0                     | RESIDUAL<br>Orange and brown, silty CLAY (A-6),<br>contains root fragments, low plasticity | 3.5  |
| 810                                                                                         | 812.0                 | 6.5           | WOH                 | 1     | 1     |                          |    |    |                         |     |              | M           |     |                           | Orange, silty CLAY (A-7-5 (8)), with<br>manganese oxides, medium to high plasticity        |      |
|                                                                                             | 810.0                 | 8.5           | 1                   | 2     | 3     |                          |    |    |                         |     | SS-130       | 40%         |     |                           |                                                                                            |      |
| 805                                                                                         |                       |               | 1                   | 3     | 4     |                          |    |    |                         |     |              | M           |     |                           |                                                                                            |      |
|                                                                                             | 805.0                 | 13.5          |                     |       |       |                          |    |    |                         |     |              | M           |     | 803.5                     | Boring Terminated at Elevation 803.5 ft in<br>CLAY (RESIDUAL)                              | 15.0 |
|                                                                                             |                       |               | 1                   | 1     | 1     |                          |    |    |                         |     |              | M           |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                           |                                                                                            |      |

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|---------------------------------------------------------------------------------------------|-----------------------|---------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|--------------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                       |               | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |              |             |     |                                                                                                                               |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |              |             |     |                                                                                                                               |
| BORING NO. L5950                                                                            |                       |               | STATION 59+50       |       |       | OFFSET CL                |    |    | ALIGNMENT -L-           |     |              | 0 HR. Dry   |     |                                                                                                                               |
| COLLAR ELEV. 815.7 ft                                                                       |                       |               | TOTAL DEPTH 25.0 ft |       |       | NORTHING 821,604         |    |    | EASTING 1,567,870       |     |              | 24 HR. FIAD |     |                                                                                                                               |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                       |               |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |              |             |     |                                                                                                                               |
| DRILLER J. Kiker                                                                            |                       |               | START DATE 11/17/23 |       |       | COMP. DATE 11/17/23      |    |    | SURFACE WATER DEPTH N/A |     |              |             |     |                                                                                                                               |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP.<br>NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                                                     |
|                                                                                             |                       |               | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |              |             |     |                                                                                                                               |
| 820                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
| 815                                                                                         | 815.7                 | 0.0           |                     |       |       |                          |    |    |                         |     |              |             |     | 815.7 GROUND SURFACE 0.0                                                                                                      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     | RESIDUAL<br>Brown and orange, silty CLAY (A-6), medium<br>to high plasticity                                                  |
|                                                                                             | 812.2                 | 3.5           | 2                   | 5     | 5     |                          |    |    |                         |     |              | M           |     |                                                                                                                               |
| 810                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     |              | M           |     |                                                                                                                               |
|                                                                                             | 812.2                 | 3.5           | 3                   | 4     | 5     |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             | 809.2                 | 6.5           |                     |       |       |                          |    |    |                         |     |              | M           |     | 809.7 Orange, SILT (A-5 (4)), micaceous, low to<br>medium plasticity 6.0                                                      |
|                                                                                             | 807.2                 | 8.5           | 2                   | 2     | 6     |                          |    |    |                         |     |              |             |     |                                                                                                                               |
| 805                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     | SS-203       | 26%         |     |                                                                                                                               |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             | 802.2                 | 13.5          | 3                   | 3     | 3     |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
| 800                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     |              | M           |     |                                                                                                                               |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             | 797.2                 | 18.5          | 1                   | 2     | 3     |                          |    |    |                         |     |              |             |     | 798.7 White, black, and orange, sandy SILT (A-4<br>(1)), with manganese oxides, micaceous,<br>saprolitic, low plasticity 17.0 |
| 795                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     | SS-205       | 57%         |     |                                                                                                                               |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             | 792.2                 | 23.5          | 5                   | 2     | 5     |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             |                       |               | 2                   | 2     | 3     |                          |    |    |                         |     |              | W           |     | 790.7 Boring Terminated at Elevation 790.7 ft in<br>SILT (RESIDUAL) 25.0                                                      |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |
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|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                               |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT.GDT 5/3/24

|                                                                                             |                 |                     |                     |                  |       |                          |    |    |                         |                                              |           |     |     |                           |                |                                                                                                |
|---------------------------------------------------------------------------------------------|-----------------|---------------------|---------------------|------------------|-------|--------------------------|----|----|-------------------------|----------------------------------------------|-----------|-----|-----|---------------------------|----------------|------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |                     | TIP U-6187          |                  |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                                              |           |     |     |                           |                |                                                                                                |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |                     |                     |                  |       |                          |    |    |                         | GROUND WTR (ft)<br>0 HR. 27.0<br>24 HR. FIAD |           |     |     |                           |                |                                                                                                |
| BORING NO. L6300                                                                            |                 | STATION 63+00       |                     | OFFSET 30 ft RT  |       | ALIGNMENT -L-            |    |    |                         |                                              |           |     |     |                           |                |                                                                                                |
| COLLAR ELEV. 789.6 ft                                                                       |                 | TOTAL DEPTH 30.0 ft |                     | NORTHING 821,958 |       | EASTING 1,567,867        |    |    |                         |                                              |           |     |     |                           |                |                                                                                                |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |                     |                     |                  |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                                              |           |     |     |                           |                |                                                                                                |
| DRILLER J. Kiker                                                                            |                 |                     | START DATE 11/16/23 |                  |       | COMP. DATE 11/16/23      |    |    | SURFACE WATER DEPTH N/A |                                              |           |     |     |                           |                |                                                                                                |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT          |                  |       | BLOWS PER FOOT           |    |    |                         |                                              | SAMP. NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION |                |                                                                                                |
|                                                                                             |                 |                     | 0.5ft               | 0.5ft            | 0.5ft | 0                        | 25 | 50 | 75                      | 100                                          |           |     |     |                           |                |                                                                                                |
| 790                                                                                         |                 |                     |                     |                  |       |                          |    |    |                         |                                              |           |     |     |                           |                |                                                                                                |
|                                                                                             | 789.6           | 0.0                 | 5                   | 6                | 6     |                          |    |    |                         |                                              | SS-145    | 24% |     | 789.6                     | GROUND SURFACE | 0.0                                                                                            |
| 785                                                                                         | 786.1           | 3.5                 | 4                   | 7                | 10    |                          |    |    |                         |                                              |           | M   |     |                           |                |                                                                                                |
|                                                                                             | 783.1           | 6.5                 | 3                   | 5                | 6     |                          |    |    |                         |                                              |           | M   |     |                           | 783.1          | White and orange, sandy SILT (A-4) with some clay and rock fragments, low to medium plasticity |
| 780                                                                                         | 781.1           | 8.5                 | 3                   | 3                | 5     |                          |    |    |                         |                                              |           | M   |     |                           |                |                                                                                                |
|                                                                                             | 776.1           | 13.5                | 1                   | 1                | 3     |                          |    |    |                         |                                              | SS-149    | 40% |     |                           | 777.6          | Tan, white, and orange, silty and sandy CLAY (A-7-5 (22)), low to medium plasticity            |
| 775                                                                                         | 771.1           | 18.5                | 4                   | 1                | 2     |                          |    |    |                         |                                              |           | M   |     |                           |                |                                                                                                |
|                                                                                             | 766.1           | 23.5                | 2                   | 9                | 11    |                          |    |    |                         |                                              | SS-151    | 37% |     |                           | 767.6          | White and tan, sandy SILT (A-4 (0))                                                            |
| 765                                                                                         | 761.1           | 28.5                | 4                   | 4                | 6     |                          |    |    |                         |                                              |           | M   |     |                           |                |                                                                                                |
| 760                                                                                         |                 |                     |                     |                  |       |                          |    |    |                         |                                              |           |     |     |                           | 759.6          | Boring Terminated at Elevation 759.6 ft in SILT (RESIDUAL)                                     |
|                                                                                             |                 |                     |                     |                  |       |                          |    |    |                         |                                              |           |     |     |                           |                |                                                                                                |
|                                                                                             |                 |                     |                     |                  |       |                          |    |    |                         |                                              |           |     |     |                           |                |                                                                                                |
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|                                                                                             |                 |                     |                     |                  |       |                          |    |    |                         |                                              |           |     |     |                           |                |                                                                                                |
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NCDOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT GDT 5/3/24

|                                                                                             |                 |            |                     |        |       |                          |    |    |                         |     |           |             |     |                                                                                                                             |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|--------|-------|--------------------------|----|----|-------------------------|-----|-----------|-------------|-----|-----------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |        |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |             |     |                                                                                                                             |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |        |       |                          |    |    | GROUND WTR (ft)         |     |           |             |     |                                                                                                                             |
| BORING NO. L6700                                                                            |                 |            | STATION 67+00       |        |       | OFFSET 80 ft RT          |    |    | ALIGNMENT -L-           |     |           | 0 HR. 12.6  |     |                                                                                                                             |
| COLLAR ELEV. 768.4 ft                                                                       |                 |            | TOTAL DEPTH 54.2 ft |        |       | NORTHING 822,366         |    |    | EASTING 1,567,813       |     |           | 24 HR. FIAD |     |                                                                                                                             |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |        |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |             |     |                                                                                                                             |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/17/23 |        |       | COMP. DATE 11/20/23      |    |    | SURFACE WATER DEPTH N/A |     |           |             |     |                                                                                                                             |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |        |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                                                   |
|                                                                                             |                 |            | 0.5ft               | 0.5ft  | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |             |     |                                                                                                                             |
| 770                                                                                         |                 |            |                     |        |       |                          |    |    |                         |     |           |             |     |                                                                                                                             |
|                                                                                             | 768.4           | 0.0        | 4                   | 5      | 5     |                          |    |    |                         |     |           |             |     | 768.4 GROUND SURFACE 0.0                                                                                                    |
| 765                                                                                         | 764.9           | 3.5        | 1                   | 1      | 2     |                          |    |    |                         |     | SS-207    | M           |     | 765.4 Brown, sandy SILT (A-4), with little organic matter 3.0                                                               |
|                                                                                             | 761.9           | 6.5        | WOH                 | WOH    | 1     |                          |    |    |                         |     | SS-208    | 56%         |     | RESIDUAL                                                                                                                    |
| 760                                                                                         | 759.9           | 8.5        | 1                   | 1      | 1     |                          |    |    |                         |     |           | W           |     | 760.4 Orange, clayey SILT (A-5 (9)), micaceous, low to medium plasticity 8.0                                                |
|                                                                                             |                 |            |                     |        |       |                          |    |    |                         |     |           | W           |     | Shelby tube taken from 5.0 - 7.0 ft in an offset hole. Not sampled                                                          |
|                                                                                             |                 |            |                     |        |       |                          |    |    |                         |     |           |             |     | Gray, orange, and white, silty SAND (A-2-4), saprolitic                                                                     |
| 755                                                                                         | 754.9           | 13.5       | WOH                 | 23     | 21    |                          |    |    |                         |     | SS-211    | 55%         |     |                                                                                                                             |
| 750                                                                                         | 749.9           | 18.5       | 2                   | 3      | 6     |                          |    |    |                         |     |           | W           |     |                                                                                                                             |
| 745                                                                                         | 744.9           | 23.5       | 4                   | 6      | 7     |                          |    |    |                         |     |           | W           |     |                                                                                                                             |
| 740                                                                                         | 739.9           | 28.5       | 7                   | 10     | 13    |                          |    |    |                         |     |           | W           |     |                                                                                                                             |
| 735                                                                                         | 734.9           | 33.5       | 33                  | 67/0.1 |       |                          |    |    |                         |     |           | W           |     | 734.4 WEATHERED ROCK 34.0                                                                                                   |
|                                                                                             |                 |            |                     |        |       |                          |    |    |                         |     |           |             |     | 731.4 White and gray, META-GABBRO 37.0                                                                                      |
| 730                                                                                         | 729.9           | 38.5       | 8                   | 10     | 25    |                          |    |    |                         |     |           | W           |     | RESIDUAL                                                                                                                    |
|                                                                                             |                 |            |                     |        |       |                          |    |    |                         |     |           |             |     | White, orange, and brown, sandy SILT (A-5), micaceous, low to medium plasticity                                             |
| 725                                                                                         | 724.9           | 43.5       | 22                  | 21     | 19    |                          |    |    |                         |     |           | W           |     | 726.4 Black, tan, and gray, silty SAND (A-2-4), 42.0                                                                        |
| 720                                                                                         | 719.9           | 48.5       | 11                  | 10     | 15    |                          |    |    |                         |     |           | W           |     |                                                                                                                             |
| 715                                                                                         | 714.2           | 54.2       | 60/0.0              |        |       |                          |    |    |                         |     |           | W           |     | 714.2 Boring Terminated with Standard Penetration Test Refusal at Elevation 714.2 ft on CRYSTALLINE ROCK (META-GABBRO) 54.2 |

NCDOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT GDT 5/3/24

|                                                            |                 |            |                     |        |       |                          |    |    |                         |     |           |             |     |                           |                                                                                                                                |
|------------------------------------------------------------|-----------------|------------|---------------------|--------|-------|--------------------------|----|----|-------------------------|-----|-----------|-------------|-----|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                              |                 |            | TIP U-6187          |        |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |             |     |                           |                                                                                                                                |
| SITE DESCRIPTION Bridge on -L- (Baltimore Road) over I-40  |                 |            |                     |        |       |                          |    |    | GROUND WTR (ft)         |     |           |             |     |                           |                                                                                                                                |
| BORING NO. EB1-A                                           |                 |            | STATION 69+74       |        |       | OFFSET 21 ft LT          |    |    | ALIGNMENT -L-           |     |           | 0 HR. 20.8  |     |                           |                                                                                                                                |
| COLLAR ELEV. 783.2 ft                                      |                 |            | TOTAL DEPTH 71.3 ft |        |       | NORTHING 822,591         |    |    | EASTING 1,567,627       |     |           | 24 HR. 18.9 |     |                           |                                                                                                                                |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022 |                 |            |                     |        |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |             |     |                           |                                                                                                                                |
| DRILLER D. Demby                                           |                 |            | START DATE 12/05/23 |        |       | COMP. DATE 12/06/23      |    |    | SURFACE WATER DEPTH N/A |     |           |             |     |                           |                                                                                                                                |
| ELEV (ft)                                                  | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |        |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                                                |
|                                                            |                 |            | 0.5ft               | 0.5ft  | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |             |     |                           |                                                                                                                                |
| 785                                                        |                 |            |                     |        |       |                          |    |    |                         |     |           |             |     |                           |                                                                                                                                |
|                                                            | 783.2           | 0.0        | 3                   | 7      | 12    |                          |    |    |                         |     |           |             |     | 783.2                     | GROUND SURFACE 0.0                                                                                                             |
| 780                                                        | 779.0           | 4.2        | 5                   | 8      | 7     |                          |    |    |                         |     |           | M           |     |                           | RESIDUAL<br>Orange, tan, and brown, clayey SILT (A-4), micaceous, medium to high plasticity                                    |
|                                                            | 776.2           | 7.0        | 3                   | 3      | 5     |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
| 775                                                        | 773.5           | 9.7        | 3                   | 3      | 3     |                          |    |    |                         |     |           | M           |     |                           | 774.2 Orange and black, SILT (A-5), with manganese oxides, micaceous, medium plasticity 9.0                                    |
|                                                            | 768.3           | 14.9       | 2                   | 2      | 3     |                          |    |    |                         |     |           | M           |     |                           | 770.2 Tan, orange, and black, clayey SILT (A-4), with manganese oxides, micaceous, low to medium plasticity 13.0               |
| 765                                                        | 763.3           | 19.9       | 2                   | 3      | 3     |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
| 760                                                        | 758.3           | 24.9       | 3                   | 2      | 5     |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
|                                                            | 753.4           | 29.8       | 5                   | 17     | 34    |                          |    |    |                         |     |           | M           |     |                           | 755.2 White and gray, silty SAND (A-2-4), with quartz fragments, micaceous 28.0                                                |
| 750                                                        | 748.6           | 34.6       | 18                  | 36     | 64    |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
|                                                            | 743.6           | 39.6       | 40                  | 60/0.4 |       |                          |    |    |                         |     |           | M           |     |                           | 747.6 WEATHERED ROCK 35.6<br>White, pink, and tan, META-GABBRO                                                                 |
| 740                                                        | 738.6           | 44.6       | WOH                 | WOH    | 1     |                          |    |    |                         |     |           | M           |     |                           | 740.2 RESIDUAL 43.0<br>Gray, brown, pink, orange, and black, sandy SILT (A-4), micaceous, saprolitic, low to medium plasticity |
|                                                            | 733.3           | 49.9       | 4                   | 7      | 11    |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
| 730                                                        | 728.4           | 54.8       | 8                   | 9      | 13    |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
|                                                            | 723.4           | 59.8       | 10                  | 17     | 23    |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
| 720                                                        | 718.4           | 64.8       | 12                  | 23     | 46    |                          |    |    |                         |     |           | M           |     |                           |                                                                                                                                |
|                                                            | 713.4           | 69.8       | 9                   | 16     | 28    |                          |    |    |                         |     |           | M           |     |                           | 711.9 Boring Terminated at Elevation 711.9 ft in SILT (RESIDUAL) 71.3                                                          |



GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                            |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
|------------------------------------------------------------|-----------------|---------------------|---------------------|--------------------------|---------------------|-------------------|-------------------------|-----------------|------|-----|-----------|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
| WBS 48647.1.1                                              |                 |                     | TIP U-6187          |                          | COUNTY DAVIE        |                   | GEOLOGIST Q. Hill       |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
| SITE DESCRIPTION Bridge on -L- (Baltimore Road) over I-40  |                 |                     |                     |                          |                     |                   |                         | GROUND WTR (ft) |      |     |           |     |     |                                                                                                                                                                     |            |  |
| BORING NO. EB1-B                                           |                 | STATION 69+74       |                     | OFFSET 21 ft RT          |                     | ALIGNMENT -L-     |                         | 0 HR.           | 20.0 |     |           |     |     |                                                                                                                                                                     |            |  |
| COLLAR ELEV. 784.0 ft                                      |                 | TOTAL DEPTH 69.6 ft |                     | NORTHING 822,605         |                     | EASTING 1,567,667 |                         | 24 HR.          | 19.1 |     |           |     |     |                                                                                                                                                                     |            |  |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022 |                 |                     |                     | DRILL METHOD H.S. Augers |                     |                   | HAMMER TYPE Automatic   |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
| DRILLER D. Demby                                           |                 |                     | START DATE 12/06/23 |                          | COMP. DATE 12/08/23 |                   | SURFACE WATER DEPTH N/A |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
| ELEV (ft)                                                  | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT          |                          |                     | BLOWS PER FOOT    |                         |                 |      |     | SAMP. NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                                           |            |  |
|                                                            |                 |                     | 0.5ft               | 0.5ft                    | 0.5ft               | 0                 | 25                      | 50              | 75   | 100 |           |     |     | ELEV. (ft)                                                                                                                                                          | DEPTH (ft) |  |
| 785                                                        |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
|                                                            | 784.0           | 0.0                 |                     |                          |                     |                   |                         |                 |      |     |           |     |     | 784.0                                                                                                                                                               | 0.0        |  |
|                                                            |                 |                     | 5                   | 5                        | 7                   |                   |                         |                 |      |     |           | M   |     | RESIDUAL<br>Orange, brown, and tan, sandy and silty CLAY (A-6), medium to highly plastic                                                                            |            |  |
| 780                                                        | 779.9           | 4.1                 |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            | 778.0           | 6.0                 | 5                   | 8                        | 13                  |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 9                   | 12                       | 10                  |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
| 775                                                        | 774.8           | 9.2                 |                     |                          |                     |                   |                         |                 |      |     |           |     |     | 775.0                                                                                                                                                               | 9.0        |  |
|                                                            |                 |                     | 5                   | 6                        | 7                   |                   |                         |                 |      |     |           | M   |     | Orange, tan, brown, and black, clayey SILT (A-4), with manganese oxides, micaceous, medium to low plasticity                                                        |            |  |
| 770                                                        | 769.5           | 14.5                |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 2                   | 2                        | 3                   |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
| 765                                                        | 764.1           | 19.9                |                     |                          |                     |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 2                   | 2                        | 3                   |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
| 760                                                        | 759.1           | 24.9                |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 2                   | 3                        | 3                   |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
| 755                                                        |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           |     |     | 756.0                                                                                                                                                               | 28.0       |  |
|                                                            | 754.1           | 29.9                | WOH                 | 2                        | 4                   |                   |                         |                 |      |     |           | M   |     | Orange, tan, and black, SILT (A-5), micaceous, low to medium plasticity                                                                                             |            |  |
|                                                            |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
| 750                                                        | 749.5           | 34.5                |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 3                   | 6                        | 5                   |                   |                         |                 |      |     |           |     |     | 751.0                                                                                                                                                               | 33.0       |  |
|                                                            | 744.3           | 39.7                |                     |                          |                     |                   |                         |                 |      |     |           | M   |     | Orange, white, black, and tan, sandy CLAY (A-6), micaceous, saprolitic, low to medium plasticity                                                                    |            |  |
| 745                                                        |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 3                   | 3                        | 7                   |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
| 740                                                        | 739.5           | 44.5                |                     |                          |                     |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 4                   | 4                        | 6                   |                   |                         |                 |      |     |           | M   |     | Black, tan, and orange, silty SAND (A-2-4), saprolitic                                                                                                              |            |  |
| 735                                                        | 734.5           | 49.5                |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 7                   | 13                       | 15                  |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
| 730                                                        | 729.5           | 54.5                |                     |                          |                     |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 13                  | 24                       | 26                  |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
| 725                                                        |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            | 724.5           | 59.5                |                     |                          |                     |                   |                         |                 |      |     |           | M   |     |                                                                                                                                                                     |            |  |
|                                                            |                 |                     | 23                  | 13                       | 38                  |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
| 720                                                        |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
|                                                            | 719.5           | 64.5                | 100/0.4             |                          |                     |                   |                         |                 |      |     |           |     |     | 719.5                                                                                                                                                               | 64.5       |  |
|                                                            |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           |     |     |                                                                                                                                                                     |            |  |
| 715                                                        | 714.5           | 69.5                |                     |                          |                     |                   |                         |                 |      |     |           |     |     | 714.5                                                                                                                                                               | 69.5       |  |
|                                                            |                 |                     | 60/0.1              |                          |                     |                   |                         |                 |      |     |           |     |     | 714.4                                                                                                                                                               | 69.6       |  |
|                                                            |                 |                     |                     |                          |                     |                   |                         |                 |      |     |           |     |     | CRYSTALLINE ROCK<br>White and gray, META-GABBRO<br>Boring Terminated with Standard Penetration Test Refusal at Elevation 714.4 ft in CRYSTALLINE ROCK (META-GABBRO) |            |  |

|                                                            |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|------------------------------------------------------------|-----------------|------------|---------------------|--------|-------|--------------------------|----|----|-------------------------|---------|-----------------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                              |                 |            | TIP U-6187          |        |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |         |                 |             |     |                                                                                                                            |
| SITE DESCRIPTION Bridge on -L- (Baltimore Road) over I-40  |                 |            |                     |        |       |                          |    |    |                         |         | GROUND WTR (ft) |             |     |                                                                                                                            |
| BORING NO. B1-A                                            |                 |            | STATION 70+92       |        |       | OFFSET 21 ft LT          |    |    | ALIGNMENT -L-           |         |                 | 0 HR. 14.8  |     |                                                                                                                            |
| COLLAR ELEV. 783.2 ft                                      |                 |            | TOTAL DEPTH 64.5 ft |        |       | NORTHING 822,702         |    |    | EASTING 1,567,588       |         |                 | 24 HR. FIAD |     |                                                                                                                            |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022 |                 |            |                     |        |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |         |                 |             |     |                                                                                                                            |
| DRILLER D. Demby                                           |                 |            | START DATE 12/14/23 |        |       | COMP. DATE 12/14/23      |    |    | SURFACE WATER DEPTH N/A |         |                 |             |     |                                                                                                                            |
| ELEV (ft)                                                  | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |        |       | BLOWS PER FOOT           |    |    |                         |         | SAMP. NO.       | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                                                  |
|                                                            |                 |            | 0.5ft               | 0.5ft  | 0.5ft | 0                        | 25 | 50 | 75                      | 100     |                 |             |     |                                                                                                                            |
| 785                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
| 780                                                        | 783.2           | 0.0        | 4                   | 4      | 5     | 9                        |    |    |                         |         |                 | M           |     | 783.2 GROUND SURFACE 0.0                                                                                                   |
|                                                            | 779.7           | 3.5        | 2                   | 3      | 3     | 6                        |    |    |                         |         |                 | M           |     | RESIDUAL<br>Orange, clayey SILT (A-5), with trace rock fragments and manganese oxides, micaceous, low to medium plasticity |
|                                                            | 776.3           | 6.9        | 2                   | 2      | 3     | 5                        |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 775                                                        | 774.1           | 9.1        | 2                   | 3      | 4     | 7                        |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 770                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 768.7           | 14.5       | 2                   | 1      | 2     | 3                        |    |    |                         |         |                 |             |     |                                                                                                                            |
| 765                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 763.5           | 19.7       | 2                   | 2      | 3     | 5                        |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 760                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 758.7           | 24.5       | 2                   | 2      | 2     | 4                        |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 755                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 753.8           | 29.4       | 2                   | 3      | 4     | 7                        |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 750                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 748.9           | 34.3       | 2                   | 2      | 4     | 6                        |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 745                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 744.2           | 39.0       | 3                   | 2      | 5     | 7                        |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 740                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 739.2           | 44.0       | 4                   | 8      | 14    | 22                       |    |    |                         |         |                 | M           |     | 741.2 Black, white, and tan, sandy SILT (A-4), micaceous, saprolitic, low to medium plasticity 42.0                        |
| 735                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 734.2           | 49.0       | 16                  | 13     | 17    | 30                       |    |    |                         |         |                 | M           |     |                                                                                                                            |
| 730                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 729.2           | 54.0       | 42                  | 58/0.4 |       |                          |    |    |                         | 100/0.9 |                 |             |     | 731.2 WEATHERED ROCK 52.0<br>Gray and brown, META-GABBRO                                                                   |
| 725                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 724.2           | 59.0       | 47                  | 53/0.1 |       |                          |    |    |                         | 100/0.6 |                 |             |     |                                                                                                                            |
| 720                                                        |                 |            |                     |        |       |                          |    |    |                         |         |                 |             |     |                                                                                                                            |
|                                                            | 719.2           | 64.0       | 100/0.5             |        |       |                          |    |    |                         | 100/0.5 |                 |             |     | 718.7 Boring Terminated at Elevation 718.7 ft in WEATHERED ROCK (META-GABBRO) 64.5                                         |

NCDOT BORE DOUBLE U6187\_BORINGS.GPJ NC DOT.GDT 5/3/24

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------------|-------------|-----|---------------------------|------------|
| WBS 48647.1.1                                              |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |             |     |                           |            |
| SITE DESCRIPTION Bridge on -L- (Baltimore Road) over I-40  |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |             |     |                           |            |
| BORING NO. B1-B                                            |                 |            | STATION 70+92       |       |       | OFFSET 21 ft RT          |    |    | ALIGNMENT -L-           |     |                 | 0 HR. 19.0  |     |                           |            |
| COLLAR ELEV. 783.2 ft                                      |                 |            | TOTAL DEPTH 62.9 ft |       |       | NORTHING 822,716         |    |    | EASTING 1,567,628       |     |                 | 24 HR. FIAD |     |                           |            |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022 |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |             |     |                           |            |
| DRILLER D. Demby                                           |                 |            | START DATE 12/14/23 |       |       | COMP. DATE 12/15/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |             |     |                           |            |
| ELEV (ft)                                                  | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI         | LOG | SOIL AND ROCK DESCRIPTION |            |
|                                                            |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |             |     | ELEV. (ft)                | DEPTH (ft) |
| 785                                                        |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            | 783.2           | 0.0        | 3                   | 2     | 3     | 5                        |    |    |                         |     |                 |             |     | 783.2                     | 0.0        |
| 780                                                        | 779.9           | 3.3        | 3                   | 4     | 4     | 8                        |    |    |                         |     |                 |             | M   | 780.2                     | 3.0        |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             | M   |                           |            |
| 775                                                        | 776.2           | 7.0        | 2                   | 2     | 3     | 5                        |    |    |                         |     |                 |             | M   | 776.2                     | 7.0        |
|                                                            | 774.2           | 9.0        | 2                   | 2     | 3     | 5                        |    |    |                         |     |                 |             | M   |                           |            |
| 770                                                        |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 765                                                        | 764.3           | 18.9       | 2                   | 2     | 2     | 4                        |    |    |                         |     |                 |             |     | 766.2                     | 17.0       |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 760                                                        | 759.1           | 24.1       | 2                   | 2     | 3     | 5                        |    |    |                         |     |                 |             |     | 763.5                     | 19.7       |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             | M   |                           |            |
| 755                                                        | 753.9           | 29.3       | 2                   | 3     | 5     | 8                        |    |    |                         |     |                 |             | M   |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 750                                                        | 749.2           | 34.0       | 3                   | 3     | 5     | 8                        |    |    |                         |     |                 |             | M   | 751.2                     | 32.0       |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 745                                                        | 743.8           | 39.4       | 3                   | 6     | 7     | 13                       |    |    |                         |     |                 |             | M   |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 740                                                        | 739.2           | 44.0       | 3                   | 7     | 10    | 17                       |    |    |                         |     |                 |             | M   |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 735                                                        | 734.1           | 49.1       | 9                   | 16    | 26    | 42                       |    |    |                         |     |                 |             | M   | 736.2                     | 47.0       |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 730                                                        | 729.1           | 54.1       | 5                   | 21    | 36    | 57                       |    |    |                         |     |                 |             | M   |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
| 725                                                        | 725.1           | 58.1       | 100/0.2             |       |       |                          |    |    |                         |     |                 |             |     | 727.2                     | 56.0       |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            | 720.3           | 62.9       | 60/0.0              |       |       |                          |    |    |                         |     |                 |             |     | 720.3                     | 62.9       |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |
|                                                            |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                           |            |

|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|------------------------------------------------------------|-----------------|------------|---------------------|-------|--------------|--------------------------|-------------------|----|-------------------------|-----------------------|-------------|-----|-----|---------------------------|--------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                              |                 |            | TIP U-6187          |       | COUNTY DAVIE |                          | GEOLOGIST Q. Hill |    |                         |                       |             |     |     |                           |                                                                                                              |
| SITE DESCRIPTION Bridge on -L- (Baltimore Road) over I-40  |                 |            |                     |       |              |                          |                   |    |                         | GROUND WTR (ft)       |             |     |     |                           |                                                                                                              |
| BORING NO. EB2-A                                           |                 |            | STATION 72+09       |       |              | OFFSET 21 ft LT          |                   |    | ALIGNMENT -L-           |                       | 0 HR. 40.4  |     |     |                           |                                                                                                              |
| COLLAR ELEV. 806.3 ft                                      |                 |            | TOTAL DEPTH 69.6 ft |       |              | NORTHING 822,813         |                   |    | EASTING 1,567,549       |                       | 24 HR. 31.0 |     |     |                           |                                                                                                              |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022 |                 |            |                     |       |              | DRILL METHOD H.S. Augers |                   |    |                         | HAMMER TYPE Automatic |             |     |     |                           |                                                                                                              |
| DRILLER D. Demby                                           |                 |            | START DATE 12/07/23 |       |              | COMP. DATE 12/11/23      |                   |    | SURFACE WATER DEPTH N/A |                       |             |     |     |                           |                                                                                                              |
| ELEV (ft)                                                  | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |              | BLOWS PER FOOT           |                   |    |                         |                       | SAMP. NO.   | MOI | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                              |
|                                                            |                 |            | 0.5ft               | 0.5ft | 0.5ft        | 0                        | 25                | 50 | 75                      | 100                   |             |     |     |                           |                                                                                                              |
| 810                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 806.3           | 0.0        | 3                   | 4     | 5            | 9                        |                   |    |                         |                       |             |     |     |                           | 806.3 GROUND SURFACE 0.0                                                                                     |
| 805                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 802.7           | 3.6        | 4                   | 7     | 7            | 14                       |                   |    |                         |                       |             |     |     |                           | 804.3 RESIDUAL Orange and brown, silty CLAY (A-6), medium to high plasticity                                 |
|                                                            | 800.3           | 6.0        | 4                   | 5     | 6            | 11                       |                   |    |                         |                       |             |     |     |                           | Orange, SILT (A-4), medium plasticity                                                                        |
| 800                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 797.2           | 9.1        | 2                   | 3     | 3            | 6                        |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 795                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 792.4           | 13.9       | 16                  | 15    | 16           | 31                       |                   |    |                         |                       |             |     |     |                           | 794.3 White, SAND (A-2-4), with some quartz fragments 12.0                                                   |
| 790                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 787.2           | 19.1       | 8                   | 7     | 5            | 12                       |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 785                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 781.5           | 24.8       | 2                   | 2     | 3            | 5                        |                   |    |                         |                       |             |     |     |                           | 783.3 Orange and black, SILT (A-5 (1)), with little clay and manganese oxides, low to medium plasticity 23.0 |
| 780                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 776.4           | 29.9       | 2                   | 2     | 3            | 5                        |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 775                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 771.9           | 34.4       | 2                   | 2     | 4            | 6                        |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 770                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 766.6           | 39.7       | 2                   | 4     | 6            | 10                       |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 765                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 761.7           | 44.6       | 3                   | 3     | 7            | 10                       |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 760                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 756.8           | 49.5       | 4                   | 6     | 8            | 14                       |                   |    |                         |                       |             |     |     |                           | 758.3 Black, tan, and orange, silty SAND (A-2-4), micaceous 48.0                                             |
| 755                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 751.8           | 54.5       | 4                   | 7     | 8            | 15                       |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 750                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 747.0           | 59.3       | 7                   | 10    | 16           | 26                       |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 745                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 742.0           | 64.3       | 10                  | 10    | 14           | 24                       |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
| 740                                                        |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            | 737.2           | 69.1       |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           | 737.2 69.1                                                                                                   |
|                                                            | 736.7           | 69.6       | 60/0.1              |       |              |                          |                   |    |                         |                       |             |     |     |                           | 736.7 69.6                                                                                                   |
|                                                            |                 |            | 60/0.0              |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |
|                                                            |                 |            |                     |       |              |                          |                   |    |                         |                       |             |     |     |                           |                                                                                                              |

NCDOT BORE DOUBLE U6187\_BORINGS.GPJ NC DOT.GDT 5/3/24

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|------------------------------------------------------------|-----------------|---------------------|---------------------|------------|--------------------------|---------------------|----|-----------------------|-------------------------|-----------------|-----------|-----|-----|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                              |                 |                     |                     | TIP U-6187 |                          | COUNTY DAVIE        |    | GEOLOGIST Q. Hill     |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| SITE DESCRIPTION Bridge on -L- (Baltimore Road) over I-40  |                 |                     |                     |            |                          |                     |    |                       |                         | GROUND WTR (ft) |           |     |     |                           |                                                                                                                                                                     |
| BORING NO. EB2-B                                           |                 | STATION 72+09       |                     |            | OFFSET 21 ft RT          |                     |    | ALIGNMENT -L-         |                         | 0 HR.           | 31.5      |     |     |                           |                                                                                                                                                                     |
| COLLAR ELEV. 806.7 ft                                      |                 | TOTAL DEPTH 68.6 ft |                     |            | NORTHING 822,827         |                     |    | EASTING 1,567,589     |                         | 24 HR.          | 30.0      |     |     |                           |                                                                                                                                                                     |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022 |                 |                     |                     |            | DRILL METHOD H.S. Augers |                     |    | HAMMER TYPE Automatic |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| DRILLER D. Demby                                           |                 |                     | START DATE 12/07/23 |            |                          | COMP. DATE 12/07/23 |    |                       | SURFACE WATER DEPTH N/A |                 |           |     |     |                           |                                                                                                                                                                     |
| ELEV (ft)                                                  | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT          |            |                          | BLOWS PER FOOT      |    |                       |                         |                 | SAMP. NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                                                                                     |
|                                                            |                 |                     | 0.5ft               | 0.5ft      | 0.5ft                    | 0                   | 25 | 50                    | 75                      | 100             |           |     |     | ELEV. (ft)                | DEPTH (ft)                                                                                                                                                          |
| 810                                                        |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            | 806.7           | 0.0                 | 3                   | 4          | 8                        | 12                  |    |                       |                         |                 |           |     |     | 806.7                     | GROUND SURFACE 0.0                                                                                                                                                  |
| 805                                                        | 803.6           | 3.1                 | 4                   | 6          | 7                        | 13                  |    |                       |                         |                 |           |     |     | 803.7                     | RESIDUAL<br>Orange and brown, sandy CLAY (A-6), medium plasticity 3.0                                                                                               |
|                                                            | 800.7           | 6.0                 | 3                   | 3          | 4                        | 7                   |    |                       |                         |                 |           |     |     |                           | Orange, SILT (A-5), with mangense oxides, micaceous, medium to high plasticity                                                                                      |
| 800                                                        | 798.2           | 8.5                 | 4                   | 4          | 5                        | 9                   |    |                       |                         |                 |           |     |     | 798.2                     | 8.5                                                                                                                                                                 |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           | Orange, brown, and black, sandy SILT (A-4), with some rock fragments, micas, and manganese oxides, low to medium plasticity                                         |
| 795                                                        | 793.2           | 13.5                | 4                   | 4          | 4                        | 8                   |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| 790                                                        | 788.3           | 18.4                | 3                   | 3          | 4                        | 7                   |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| 785                                                        | 783.3           | 23.4                | 2                   | 3          | 4                        | 7                   |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| 780                                                        | 777.9           | 28.8                | 2                   | 5          | 6                        | 11                  |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| 775                                                        | 773.1           | 33.6                | 3                   | 3          | 7                        | 10                  |    |                       |                         |                 |           |     |     | 774.7                     | 32.0                                                                                                                                                                |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           | Orange, brown, and black, sandy SILT (A-5), micaceous, low to medium plasticity                                                                                     |
| 770                                                        | 768.1           | 38.6                | 3                   | 4          | 7                        | 11                  |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| 765                                                        | 763.1           | 43.6                | 3                   | 5          | 7                        | 12                  |    |                       |                         |                 |           |     |     | 764.7                     | 42.0                                                                                                                                                                |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           | Tan, brown, and black, sandy SILT (A-4), micaceous, low to medium plasticity                                                                                        |
| 760                                                        | 758.2           | 48.5                | 4                   | 10         | 9                        | 19                  |    |                       |                         |                 |           |     |     | 759.7                     | 47.0                                                                                                                                                                |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           | Black, tan, white, and gray, silty SAND (A-2-4), with trace rock fragments, micaceous                                                                               |
| 755                                                        | 753.0           | 53.7                | 8                   | 18         | 27                       | 45                  |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| 750                                                        | 748.1           | 58.6                | 11                  | 18         | 37                       | 55                  |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           |                                                                                                                                                                     |
| 745                                                        | 743.3           | 63.4                | 100/0.5             |            |                          |                     |    |                       |                         |                 |           |     |     | 745.7                     | 61.0                                                                                                                                                                |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           | WEATHERED ROCK<br>Gray and black, META-GABBRO                                                                                                                       |
| 740                                                        | 738.2           | 68.5                | 60/0.1              |            |                          |                     |    |                       |                         |                 |           |     |     | 738.2                     | 68.5                                                                                                                                                                |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     | 738.1                     | 68.6                                                                                                                                                                |
|                                                            |                 |                     |                     |            |                          |                     |    |                       |                         |                 |           |     |     |                           | CRYSTALLINE ROCK<br>Gray and black, META-GABBRO<br>Boring Terminated with Standard Penetration Test Refusal at Elevation 738.1 ft on CRYSTALLINE ROCK (META-GABBRO) |

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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----------------|-------------|-----|----------------|---------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                 |             |     |                |                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         | GROUND WTR (ft) |             |     |                |                           |
| BORING NO. LCULV1_LT                                                                        |                 |            | STATION 66+00       |       |       | OFFSET 120 ft LT         |    |    | ALIGNMENT -L-           |                 | 0 HR. 4.5   |     |                |                           |
| COLLAR ELEV. 761.4 ft                                                                       |                 |            | TOTAL DEPTH 40.0 ft |       |       | NORTHING 822,209         |    |    | EASTING 1,567,654       |                 | 24 HR. FIAD |     |                |                           |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                 |             |     |                |                           |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/16/23 |       |       | COMP. DATE 11/16/23      |    |    | SURFACE WATER DEPTH N/A |                 |             |     |                |                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                 | SAMP. NO.   | MOI | LOG            | SOIL AND ROCK DESCRIPTION |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100             |             |     |                |                           |
| 765                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
| 760                                                                                         | 761.4           | 0.0        | 4                   | 2     | 3     | 5                        |    |    |                         |                 | SS-165      | 59% | GROUND SURFACE | 0.0                       |
| 755                                                                                         | 757.9           | 3.5        | 1                   | 0     | 1     | 1                        |    |    |                         |                 |             |     |                |                           |
|                                                                                             | 754.9           | 6.5        | WOH                 | 1     | 3     | 4                        |    |    |                         |                 | SS-167      | 49% | RESIDUAL       | 3.5                       |
| 750                                                                                         | 752.9           | 8.5        | 1                   | 0     | 2     | 2                        |    |    |                         |                 |             | W   |                |                           |
|                                                                                             | 747.9           | 13.5       | 1                   | 2     | 3     | 5                        |    |    |                         |                 |             | W   |                |                           |
| 745                                                                                         | 742.9           | 18.5       | 2                   | 3     | 5     | 3                        |    |    |                         |                 |             | W   |                |                           |
| 740                                                                                         | 737.9           | 23.5       | 1                   | 1     | 5     | 6                        |    |    |                         |                 |             | W   |                |                           |
| 735                                                                                         | 732.9           | 28.5       | WOH                 | 2     | 5     | 7                        |    |    |                         |                 | SS-172      | 41% |                |                           |
| 730                                                                                         | 727.9           | 33.5       | WOH                 | 3     | 5     | 8                        |    |    |                         |                 |             | W   |                |                           |
| 725                                                                                         | 722.9           | 38.5       | WOH                 | 2     | 6     | 8                        |    |    |                         |                 |             | W   |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |                |                           |
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NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

[illegible]

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT.GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                              |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|-------------|-----|------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST J. Crenshaw   |     |           |             |     |                                                                              |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |             |     |                                                                              |
| BORING NO. LPB1450                                                                          |                 |            | STATION 14+50       |       |       | OFFSET CL                |    |    | ALIGNMENT -LPB-         |     |           | 0 HR. 31.7  |     |                                                                              |
| COLLAR ELEV. 809.6 ft                                                                       |                 |            | TOTAL DEPTH 35.0 ft |       |       | NORTHING 822,831         |    |    | EASTING 1,567,066       |     |           | 24 HR. FIAD |     |                                                                              |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |             |     |                                                                              |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/08/23 |       |       | COMP. DATE 12/08/23      |    |    | SURFACE WATER DEPTH N/A |     |           |             |     |                                                                              |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                    |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |             |     |                                                                              |
| 810                                                                                         | 809.6           | 0.0        | 4                   | 4     | 5     |                          |    |    |                         |     |           |             |     | GROUND SURFACE 0.0                                                           |
| 805                                                                                         | 806.1           | 3.5        | 4                   | 4     | 7     |                          |    |    |                         |     |           | M           |     | RESIDUAL<br>Orange, sandy SILT (A-4), micaceous                              |
|                                                                                             | 803.6           | 6.0        | 2                   | 4     | 5     |                          |    |    |                         |     |           | M           |     | Orange, white, and black, SILT (A-5),<br>micaceous, low to medium plasticity |
| 800                                                                                         | 801.1           | 8.5        | 2                   | 4     | 4     |                          |    |    |                         |     |           | M           |     |                                                                              |
|                                                                                             | 796.1           | 13.5       | 3                   | 3     | 5     |                          |    |    |                         |     |           | M           |     |                                                                              |
| 795                                                                                         | 791.1           | 18.5       | 2                   | 2     | 3     |                          |    |    |                         |     |           | M           |     |                                                                              |
| 785                                                                                         | 786.1           | 23.5       | 3                   | 3     | 4     |                          |    |    |                         |     |           | W           |     |                                                                              |
|                                                                                             | 781.1           | 28.5       | 1                   | 1     | 3     |                          |    |    |                         |     |           | W           |     |                                                                              |
| 780                                                                                         | 776.1           | 33.5       | 2                   | 4     | 6     |                          |    |    |                         |     |           | W           |     |                                                                              |
| 775                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     | Boring Terminated at Elevation 774.6 ft in<br>SILT (RESIDUAL)                |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     |                                                                                                                                     |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                 |             |     |     |                                                                                                                                     |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         | GROUND WTR (ft) |             |     |     |                                                                                                                                     |
| BORING NO. LPB1850                                                                          |                 |            | STATION 18+50       |       |       | OFFSET 20 ft LT          |    |    | ALIGNMENT -LPB-         |                 | 0 HR. Dry   |     |     |                                                                                                                                     |
| COLLAR ELEV. 826.8 ft                                                                       |                 |            | TOTAL DEPTH 40.0 ft |       |       | NORTHING 823,150         |    |    | EASTING 1,567,248       |                 | 24 HR. FIAD |     |     |                                                                                                                                     |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                 |             |     |     |                                                                                                                                     |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/11/23 |       |       | COMP. DATE 12/11/23      |    |    | SURFACE WATER DEPTH N/A |                 |             |     |     |                                                                                                                                     |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                 | SAMP. NO.   | MOI | LOG | SOIL AND ROCK DESCRIPTION                                                                                                           |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100             |             |     |     |                                                                                                                                     |
| 830                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     |                                                                                                                                     |
| 825                                                                                         | 826.8           | 0.0        | 4                   | 4     | 7     |                          |    |    |                         |                 |             |     |     | 826.8 GROUND SURFACE 0.0                                                                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     | 826.0 10 inches of Topsoil 0.8                                                                                                      |
| 820                                                                                         | 823.3           | 3.5        | 3                   | 6     | 8     |                          |    |    |                         |                 |             |     |     | RESIDUAL                                                                                                                            |
|                                                                                             | 820.8           | 6.0        | 3                   | 4     | 6     |                          |    |    |                         |                 |             |     |     | Orange and brown, CLAY (A-7), with little sand, medium to high plasticity                                                           |
| 815                                                                                         | 818.3           | 8.5        | 3                   | 4     | 4     |                          |    |    |                         |                 |             |     |     | 820.8 Orange, white, black, and brown, sandy SILT (A-5), micaceous, low to medium plasticity 6.0                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     |                                                                                                                                     |
| 810                                                                                         | 813.3           | 13.5       | 6                   | 7     | 6     |                          |    |    |                         |                 |             |     |     | 810.8 Orange, black, red, and white, SILT (A-4), with trace sand, micaceous, saprolitic, low to medium plasticity 17.0              |
|                                                                                             | 808.3           | 18.5       | 3                   | 4     | 6     |                          |    |    |                         |                 |             |     |     |                                                                                                                                     |
| 805                                                                                         | 803.3           | 23.5       | 3                   | 3     | 5     |                          |    |    |                         |                 |             |     |     | 799.8 Brown and orange, clayey SILT (A-5), micaceous, low to medium plasticity, saprolitic 27.0                                     |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     | 797.3 Orange, red, tan, and black, and white, sandy SILT (A-4), with trace rock fragments, micaceous, low to medium plasticity 29.5 |
| 795                                                                                         | 798.3           | 28.5       | 6                   | 6     | 9     |                          |    |    |                         |                 |             |     |     |                                                                                                                                     |
|                                                                                             | 793.3           | 33.5       | 3                   | 3     | 4     |                          |    |    |                         |                 |             |     |     |                                                                                                                                     |
| 790                                                                                         | 788.3           | 38.5       | 6                   | 5     | 9     |                          |    |    |                         |                 |             |     |     | 786.8 Boring Terminated at Elevation 786.8 ft in SILT (RESIDUAL) 40.0                                                               |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     |                                                                                                                                     |



GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |           |     |             |                                                                                          |            |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |           |     |             |                                                                                          |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |           |     |             |                                                                                          |            |
| BORING NO. LPB2050                                                                          |                 |            | STATION 20+50       |       |       | OFFSET CL                |    |    | ALIGNMENT -LPB-         |           |     | 0 HR. Dry   |                                                                                          |            |
| COLLAR ELEV. 819.6 ft                                                                       |                 |            | TOTAL DEPTH 30.0 ft |       |       | NORTHING 823,076         |    |    | EASTING 1,567,436       |           |     | 24 HR. FIAD |                                                                                          |            |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |           |     |             |                                                                                          |            |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/12/23 |       |       | COMP. DATE 12/12/23      |    |    | SURFACE WATER DEPTH N/A |           |     |             |                                                                                          |            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         | SAMP. NO. | MOI | LOG         | SOIL AND ROCK DESCRIPTION                                                                |            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100       |     |             | ELEV. (ft)                                                                               | DEPTH (ft) |
| 820                                                                                         |                 |            |                     |       |       |                          |    |    |                         |           |     |             |                                                                                          |            |
|                                                                                             | 819.6           | 0.0        | 9                   | 10    | 10    |                          |    |    |                         |           |     | 819.6       | 0.0                                                                                      |            |
|                                                                                             | 816.1           | 3.5        | 4                   | 6     | 10    |                          |    |    |                         |           | M   |             | RESIDUAL<br>Orange and brown, CLAY (A-7), medium to high plasticity                      |            |
| 815                                                                                         | 813.6           | 6.0        | 3                   | 5     | 7     |                          |    |    |                         |           | M   |             |                                                                                          |            |
|                                                                                             | 811.1           | 8.5        | 3                   | 4     | 6     |                          |    |    |                         |           | M   |             | 813.6 --- 6.0<br>Orange, black, and red, SILT (A-5), micaceous, low to medium plasticity |            |
| 810                                                                                         | 806.1           | 13.5       | 2                   | 3     | 3     |                          |    |    |                         |           | M   |             |                                                                                          |            |
| 805                                                                                         | 801.1           | 18.5       | 3                   | 4     | 4     |                          |    |    |                         |           | M   |             |                                                                                          |            |
|                                                                                             | 796.1           | 23.5       | 3                   | 3     | 5     |                          |    |    |                         |           | M   |             |                                                                                          |            |
| 795                                                                                         | 791.1           | 28.5       | 3                   | 5     | 4     |                          |    |    |                         |           | M   |             |                                                                                          |            |
| 790                                                                                         |                 |            |                     |       |       |                          |    |    |                         |           | M   |             | 789.6                                                                                    | 30.0       |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |           |     |             | Boring Terminated at Elevation 789.6 ft in SILT (RESIDUAL)                               |            |

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |     |                                                                            |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST J. Crenshaw   |     |           |            |     |                                                                            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |            |     |                                                                            |
| BORING NO. LPB2250                                                                          |                 |            | STATION 22+50       |       |       | OFFSET 40 ft RT          |    |    | ALIGNMENT -LPB-         |     |           | 0 HR. Dry  |     |                                                                            |
| COLLAR ELEV. 810.7 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 822,889         |    |    | EASTING 1,567,493       |     |           | 24 HR. Dry |     |                                                                            |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |            |     |                                                                            |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/08/23 |       |       | COMP. DATE 12/11/23      |    |    | SURFACE WATER DEPTH N/A |     |           |            |     |                                                                            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI        | LOG | SOIL AND ROCK DESCRIPTION                                                  |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |            |     |                                                                            |
| 815                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |     |                                                                            |
| 810                                                                                         | 810.7           | 0.0        |                     |       |       |                          |    |    |                         |     |           |            |     | 810.7 GROUND SURFACE 0.0                                                   |
| 805                                                                                         | 807.2           | 3.5        | 3                   | 4     | 6     |                          |    |    |                         |     | M         |            |     | RESIDUAL                                                                   |
|                                                                                             | 804.7           | 6.0        | 4                   | 5     | 7     |                          |    |    |                         |     | M         |            |     | Orange, clayey SILT (A-5), medium plasticity                               |
| 800                                                                                         | 802.2           | 8.5        | 6                   | 8     | 13    |                          |    |    |                         |     | M         |            |     | Orange and white, silty SAND (A-2-4), with trace rock fragments, micaceous |
|                                                                                             | 797.2           | 13.5       | 4                   | 6     | 5     |                          |    |    |                         |     | M         |            |     |                                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     | M         |            |     | 798.7 Orange, sandy SILT (A-4), micaceous, low plasticity 12.0             |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     | M         |            |     | 795.7 Boring Terminated at Elevation 795.7 ft in SILT (RESIDUAL) 15.0      |



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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                     |                                                                                                       |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |            |                                                                                     |                                                                                                       |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |            |                                                                                     |                                                                                                       |
| BORING NO. RPB1350                                                                          |                 |            | STATION 13+50       |       |       | OFFSET 30 ft LT          |    |    | ALIGNMENT -RPB-         |     |           | 0 HR. Dry  |                                                                                     |                                                                                                       |
| COLLAR ELEV. 791.0 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,345         |    |    | EASTING 1,566,233       |     |           | 24 HR. Dry |                                                                                     |                                                                                                       |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |            |                                                                                     |                                                                                                       |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/07/23 |       |       | COMP. DATE 12/11/23      |    |    | SURFACE WATER DEPTH N/A |     |           |            |                                                                                     |                                                                                                       |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI        | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                             |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |            |                                                                                     |                                                                                                       |
| 795                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                     |                                                                                                       |
| 790                                                                                         | 791.0           | 0.0        | 2                   | 4     | 6     |                          |    |    |                         |     | SS-360    | 40%        |  | 791.0 GROUND SURFACE 0.0                                                                              |
| 785                                                                                         | 787.5           | 3.5        | 7                   | 26    | 47    |                          |    |    |                         |     |           | M          |  | RESIDUAL<br>Orange and brown, silty CLAY (A-7-6 (11)), contains root fragments, medium plasticity 3.5 |
|                                                                                             | 785.0           | 6.0        | 13                  | 28    | 41    |                          |    |    |                         |     |           | M          |  | Orange and brown, sandy SILT (A-4), with little clay, medium plasticity 6.0                           |
|                                                                                             | 782.5           | 8.5        | 12                  | 21    | 28    |                          |    |    |                         |     |           | M          |  | Black, white, and orange, silty SAND (A-2-4), with trace to some rock fragments 10.0                  |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                     | Boring Terminated at Elevation 781.0 ft in SAND (RESIDUAL)                                            |

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                       |               |                     |                     |       |                          |                     |                   |                   |                         |              |                 |                                                                                     |                                                                                |                                                                                       |     |
|---------------------------------------------------------------------------------------------|-----------------------|---------------|---------------------|---------------------|-------|--------------------------|---------------------|-------------------|-------------------|-------------------------|--------------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| WBS 48647.1.1                                                                               |                       |               |                     | TIP U-6187          |       | COUNTY DAVIE             |                     | GEOLOGIST Q. Hill |                   |                         |              |                 |                                                                                     |                                                                                |                                                                                       |     |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |                     |                     |       |                          |                     |                   |                   |                         |              | GROUND WTR (ft) |                                                                                     |                                                                                |                                                                                       |     |
| BORING NO. RPB1550                                                                          |                       |               | STATION 15+50       |                     |       | OFFSET 35 ft RT          |                     |                   | ALIGNMENT -RPB-   |                         |              | 0 HR.           | 15.5                                                                                |                                                                                |                                                                                       |     |
| COLLAR ELEV. 791.8 ft                                                                       |                       |               | TOTAL DEPTH 20.0 ft |                     |       | NORTHING 822,409         |                     |                   | EASTING 1,566,434 |                         |              | 24 HR.          | 14.0                                                                                |                                                                                |                                                                                       |     |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                       |               |                     |                     |       | DRILL METHOD H.S. Augers |                     |                   |                   | HAMMER TYPE Automatic   |              |                 |                                                                                     |                                                                                |                                                                                       |     |
| DRILLER D. Demby                                                                            |                       |               |                     | START DATE 12/07/23 |       |                          | COMP. DATE 12/11/22 |                   |                   | SURFACE WATER DEPTH N/A |              |                 |                                                                                     |                                                                                |                                                                                       |     |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT          |                     |       | BLOWS PER FOOT           |                     |                   |                   |                         | SAMP.<br>NO. | MOI             | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                      |                                                                                       |     |
|                                                                                             |                       |               | 0.5ft               | 0.5ft               | 0.5ft | 0                        | 25                  | 50                | 75                | 100                     |              |                 |                                                                                     | ELEV. (ft)                                                                     | DEPTH (ft)                                                                            |     |
| 795                                                                                         |                       |               |                     |                     |       |                          |                     |                   |                   |                         |              |                 |                                                                                     |                                                                                |                                                                                       |     |
| 790                                                                                         | 791.8                 | 0.0           |                     |                     |       |                          |                     |                   |                   |                         |              |                 |                                                                                     | 791.8 GROUND SURFACE 0.0                                                       |                                                                                       |     |
|                                                                                             |                       |               | 4                   | 5                   | 7     |                          |                     |                   |                   |                         |              | M               |  | RESIDUAL<br>Orange and brown, silty CLAY (A-6), medium plasticity              |                                                                                       |     |
|                                                                                             | 788.3                 | 3.5           | 5                   | 4                   | 6     |                          |                     |                   |                   |                         |              | M               |                                                                                     | 788.3                                                                          | Orange, SILT (A-4), low to medium plasticity                                          | 3.5 |
| 785                                                                                         | 785.8                 | 6.0           | 2                   | 3                   | 4     |                          |                     |                   |                   |                         |              | M               |                                                                                     | 785.8                                                                          | Orange, black, and white, silty and sandy CLAY (A-7-5 (19)), low to medium plasticity | 6.0 |
|                                                                                             |                       |               | 6                   | 8                   | 4     |                          |                     |                   |                   |                         |              | M               |                                                                                     |                                                                                |                                                                                       |     |
| 780                                                                                         | 783.3                 | 8.5           |                     |                     |       |                          |                     |                   |                   |                         |              |                 |                                                                                     |                                                                                |                                                                                       |     |
|                                                                                             |                       |               | 2                   | 1                   | 2     |                          |                     |                   |                   |                         | SS-358       | 62%             |                                                                                     |                                                                                |                                                                                       |     |
| 775                                                                                         | 778.3                 | 13.5          |                     |                     |       |                          |                     |                   |                   |                         |              |                 |                                                                                     | 774.8                                                                          |                                                                                       |     |
|                                                                                             |                       |               |                     |                     |       |                          |                     |                   |                   |                         |              |                 |                                                                                     | Orange and black, sandy SILT (A-4), with little clay, low to medium plasticity |                                                                                       |     |
|                                                                                             | 773.3                 | 18.5          | 6                   | 7                   | 9     |                          |                     |                   |                   |                         |              | W               |                                                                                     | 771.8                                                                          | Boring Terminated at Elevation 771.8 ft in SILT (RESIDUAL)                            |     |
|                                                                                             |                       |               |                     |                     |       |                          |                     |                   |                   |                         |              |                 |                                                                                     |                                                                                |                                                                                       |     |

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                  |                                                                                          |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------------|-------------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST J. Crenshaw   |     |                 |             |                                                  |                                                                                          |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |             |                                                  |                                                                                          |
| BORING NO. RPB1850                                                                          |                 |            | STATION 18+50       |       |       | OFFSET 40 ft LT          |    |    | ALIGNMENT -RPB-         |     |                 | 0 HR. 25.0  |                                                  |                                                                                          |
| COLLAR ELEV. 808.1 ft                                                                       |                 |            | TOTAL DEPTH 30.0 ft |       |       | NORTHING 822,675         |    |    | EASTING 1,566,595       |     |                 | 24 HR. FIAD |                                                  |                                                                                          |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |             |                                                  |                                                                                          |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/08/23 |       |       | COMP. DATE 12/08/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |             |                                                  |                                                                                          |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI         | LOG                                              | SOIL AND ROCK DESCRIPTION                                                                |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |             |                                                  |                                                                                          |
| 810                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                  |                                                                                          |
| 805                                                                                         | 808.1           | 0.0        | 2                   | 4     | 6     |                          |    |    |                         |     |                 |             |                                                  | 808.1 GROUND SURFACE 0.0                                                                 |
|                                                                                             | 804.6           | 3.5        | 5                   | 10    | 12    |                          |    |    |                         |     | M               |             | Red and brown, clayey SILT (A-5), with some sand |                                                                                          |
| 800                                                                                         | 802.1           | 6.0        | 4                   | 5     | 8     |                          |    |    |                         |     | M               |             | 802.1 6.0                                        | Red and brown, SILT (A-4), with trace sand and clay and manganese oxides, low plasticity |
|                                                                                             | 799.6           | 8.5        | 3                   | 5     | 7     |                          |    |    |                         |     | M               |             |                                                  |                                                                                          |
| 795                                                                                         | 794.6           | 13.5       | 6                   | 7     | 6     |                          |    |    |                         |     | M               |             |                                                  |                                                                                          |
|                                                                                             | 789.6           | 18.5       | 2                   | 4     | 4     |                          |    |    |                         |     | M               |             | 791.1 17.0                                       | Red and brown, clayey SILT (A-5), with trace rock fragments, micaceous                   |
| 785                                                                                         | 784.6           | 23.5       | 3                   | 2     | 3     |                          |    |    |                         |     |                 |             | 786.1 22.0                                       | Orange, brown, and black, sandy SILT (A-4), with manganese oxides, micaceous             |
| 780                                                                                         | 779.6           | 28.5       | 2                   | 4     | 7     |                          |    |    |                         |     |                 |             |                                                  |                                                                                          |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     | W               |             | 778.1 30.0                                       | Boring Terminated at Elevation 778.1 ft in SILT (RESIDUAL)                               |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

[illegible]

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |                 |                                                                                      |                                                                                    |            |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|-----------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |                 |                                                                                      |                                                                                    |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     |           | GROUND WTR (ft) |                                                                                      |                                                                                    |            |
| BORING NO. RPB2350                                                                          |                 |            | STATION 23+50       |       |       | OFFSET CL                |    |    | ALIGNMENT -RPB-         |     |           | 0 HR.           | 25.0                                                                                 |                                                                                    |            |
| COLLAR ELEV. 813.2 ft                                                                       |                 |            | TOTAL DEPTH 30.0 ft |       |       | NORTHING 823,009         |    |    | EASTING 1,566,969       |     |           | 24 HR.          | FIAD                                                                                 |                                                                                    |            |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |                 |                                                                                      |                                                                                    |            |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/11/23 |       |       | COMP. DATE 12/11/23      |    |    | SURFACE WATER DEPTH N/A |     |           |                 |                                                                                      |                                                                                    |            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI             | LOG                                                                                  | SOIL AND ROCK DESCRIPTION                                                          |            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |                 |                                                                                      | ELEV. (ft)                                                                         | DEPTH (ft) |
| 815                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |                 |                                                                                      |                                                                                    |            |
| 810                                                                                         | 813.2           | 0.0        | 2                   | 5     | 5     |                          |    |    |                         |     |           |                 |                                                                                      | 813.2                                                                              | 0.0        |
|                                                                                             | 809.7           | 3.5        | 3                   | 6     | 7     |                          |    |    |                         |     |           | M               |   | GROUND SURFACE                                                                     |            |
| 805                                                                                         | 807.2           | 6.0        | 4                   | 5     | 7     |                          |    |    |                         |     |           | M               |   | RESIDUAL<br>Orange and brown, silty CLAY (A-6), with some roots, medium plasticity | 3.5        |
|                                                                                             | 804.7           | 8.5        | 3                   | 5     | 7     |                          |    |    |                         |     |           | M               |   | Orange, SILT (A-4), with little clay, micaceous, low to medium plasticity          |            |
| 800                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           | M               |   |                                                                                    |            |
|                                                                                             | 799.7           | 13.5       | 2                   | 3     | 4     |                          |    |    |                         |     |           | M               |   | 801.2                                                                              | 12.0       |
| 795                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           | M               |   |                                                                                    |            |
|                                                                                             | 794.7           | 18.5       | 4                   | 3     | 3     |                          |    |    |                         |     |           | M               |   | 796.2                                                                              | 17.0       |
| 790                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |                 |   |                                                                                    |            |
|                                                                                             | 789.7           | 23.5       | 4                   | 5     | 10    |                          |    |    |                         |     |           |                 |   | 789.4                                                                              | 23.8       |
| 785                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |                 |   |                                                                                    |            |
|                                                                                             | 784.7           | 28.5       | 4                   | 5     | 6     |                          |    |    |                         |     |           | M               |  | 783.2                                                                              | 30.0       |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |                 |                                                                                      | Boring Terminated at Elevation 783.2 ft in SAND (RESIDUAL)                         |            |

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         | GROUND WTR (ft) |           |             |                                                                                      |                                                                                                                                                                                                           |
| BORING NO. RPB2550                                                                          |                 |            | STATION 25+50       |       |       | OFFSET 40 ft LT          |    |    | ALIGNMENT -RPB-         |                 |           | 0 HR. Dry   |                                                                                      |                                                                                                                                                                                                           |
| COLLAR ELEV. 822.5 ft                                                                       |                 |            | TOTAL DEPTH 35.0 ft |       |       | NORTHING 823,178         |    |    | EASTING 1,567,096       |                 |           | 24 HR. FIAD |                                                                                      |                                                                                                                                                                                                           |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/11/23 |       |       | COMP. DATE 12/11/23      |    |    | SURFACE WATER DEPTH N/A |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                 | SAMP. NO. | MOI         | LOG                                                                                  | SOIL AND ROCK DESCRIPTION                                                                                                                                                                                 |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100             |           |             |                                                                                      |                                                                                                                                                                                                           |
| 825                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
|                                                                                             | 822.5           | 0.0        | 2                   | 2     | 2     |                          |    |    |                         |                 |           |             |                                                                                      | 822.5 GROUND SURFACE 0.0                                                                                                                                                                                  |
| 820                                                                                         | 819.0           | 3.5        | 2                   | 3     | 6     |                          |    |    |                         |                 |           | M           |   | RESIDUAL<br>Brown, orange, and black, silty CLAY (A-6), with little sand, low to medium plasticity                                                                                                        |
|                                                                                             | 816.5           | 6.0        | 3                   | 3     | 4     |                          |    |    |                         |                 |           | M           |                                                                                      |                                                                                                                                                                                                           |
| 815                                                                                         | 814.0           | 8.5        | 3                   | 4     | 4     |                          |    |    |                         |                 |           | M           |                                                                                      |                                                                                                                                                                                                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
| 810                                                                                         | 809.0           | 13.5       | 5                   | 5     | 6     |                          |    |    |                         |                 |           | M           |   | White, silty SAND (A-2-4), with trace quartz rock fragments<br>Bulk Sample from 10 - 20 ft<br>Orange, red, white, tan, and black, clayey SILT (A-4), with trace sand, micaceous, low to medium plasticity |
| 805                                                                                         | 804.0           | 18.5       | 4                   | 2     | 3     |                          |    |    |                         |                 |           | M           |                                                                                      |                                                                                                                                                                                                           |
| 800                                                                                         | 799.0           | 23.5       | 3                   | 3     | 5     |                          |    |    |                         |                 |           | M           |                                                                                      |                                                                                                                                                                                                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
| 795                                                                                         | 794.0           | 28.5       | 2                   | 3     | 3     |                          |    |    |                         |                 |           | M           |  |                                                                                                                                                                                                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
| 790                                                                                         | 789.0           | 33.5       | 3                   | 4     | 6     |                          |    |    |                         |                 |           | M           |                                                                                      |                                                                                                                                                                                                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      |                                                                                                                                                                                                           |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      | 790.5 32.0                                                                                                                                                                                                |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      | 787.5 35.0                                                                                                                                                                                                |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      | Orange, tan, white, and pink, CLAY (A-6), saprolitic, low to medium plasticity                                                                                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |           |             |                                                                                      | Boring Terminated at Elevation 787.5 ft in CLAY (RESIDUAL)                                                                                                                                                |

NCDOT BORE DOUBLE U6187\_BORINGS.GPJ NC\_DOT.GDT 5/3/24

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |                     |                     |                  |                          |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
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| WBS 48647.1.1                                                                               |                 |                     |                     | TIP U-6187       |                          | COUNTY DAVIE      |                         | GEOLOGIST Q. Hill     |    |                 |     |     |                           |                                                                                   |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |                     |                     |                  |                          |                   |                         |                       |    | GROUND WTR (ft) |     |     |                           |                                                                                   |
| BORING NO. RPB2800                                                                          |                 | STATION 28+00       |                     | OFFSET 20 ft LT  |                          | ALIGNMENT -RPB-   |                         | 0 HR. Dry             |    |                 |     |     |                           |                                                                                   |
| COLLAR ELEV. 825.5 ft                                                                       |                 | TOTAL DEPTH 40.0 ft |                     | NORTHING 823,180 |                          | EASTING 1,567,365 |                         | 24 HR. FIAD           |    |                 |     |     |                           |                                                                                   |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |                     |                     |                  | DRILL METHOD H.S. Augers |                   |                         | HAMMER TYPE Automatic |    |                 |     |     |                           |                                                                                   |
| DRILLER D. Demby                                                                            |                 |                     | START DATE 12/12/23 |                  | COMP. DATE 12/12/23      |                   | SURFACE WATER DEPTH N/A |                       |    |                 |     |     |                           |                                                                                   |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft)          | BLOW COUNT          |                  |                          | BLOWS PER FOOT    |                         |                       |    | SAMP. NO.       | MOI | LOG | SOIL AND ROCK DESCRIPTION |                                                                                   |
|                                                                                             |                 |                     | 0.5ft               | 0.5ft            | 0.5ft                    | 0                 | 25                      | 50                    | 75 | 100             |     |     | ELEV. (ft)                | DEPTH (ft)                                                                        |
| 830                                                                                         |                 |                     |                     |                  |                          |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
| 825                                                                                         | 825.5           | 0.0                 |                     |                  |                          |                   |                         |                       |    |                 |     |     | 825.5                     | GROUND SURFACE 0.0                                                                |
| 820                                                                                         | 822.0           | 3.5                 | 4                   | 5                | 6                        |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
|                                                                                             | 819.5           | 6.0                 | 4                   | 9                | 12                       |                   |                         |                       |    |                 |     |     | 822.0                     | RESIDUAL<br>Orange and brown, clayey SILT (A-4),<br>medium to high plasticity 3.5 |
| 815                                                                                         | 817.0           | 8.5                 | 4                   | 5                | 7                        |                   |                         |                       |    |                 |     |     | 819.5                     | Orange, silty CLAY (A-6), medium to high<br>plasticity 6.0                        |
|                                                                                             | 812.0           | 13.5                | 3                   | 4                | 4                        |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
| 810                                                                                         | 807.0           | 18.5                | 2                   | 4                | 4                        |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
|                                                                                             | 802.0           | 23.5                | 3                   | 3                | 5                        |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
| 805                                                                                         | 797.0           | 28.5                | 3                   | 3                | 4                        |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
|                                                                                             | 792.0           | 33.5                | 1                   | 2                | 3                        |                   |                         |                       |    |                 |     |     |                           |                                                                                   |
| 790                                                                                         | 787.0           | 38.5                | 2                   | 3                | 5                        |                   |                         |                       |    |                 |     |     | 788.5                     | Brown, black, and orange, SILT (A-5),<br>micaceous, low to medium plasticity 37.0 |
|                                                                                             |                 |                     |                     |                  |                          |                   |                         |                       |    |                 |     |     | 785.5                     | Boring Terminated at Elevation 785.5 ft in<br>SILT (RESIDUAL) 40.0                |

|                                                                                             |                       |               |                     |            |       |                          |    |                       |                         |                 |              |     |                                                                                     |                                                                                                                        |
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| WBS 48647.1.1                                                                               |                       |               |                     | TIP U-6187 |       | COUNTY DAVIE             |    | GEOLOGIST J. Crenshaw |                         |                 |              |     |                                                                                     |                                                                                                                        |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |                     |            |       |                          |    |                       |                         | GROUND WTR (ft) |              |     |                                                                                     |                                                                                                                        |
| BORING NO. RPB3100                                                                          |                       |               | STATION 31+00       |            |       | OFFSET 40 ft LT          |    |                       | ALIGNMENT -RPB-         |                 | 0 HR. Dry    |     |                                                                                     |                                                                                                                        |
| COLLAR ELEV. 811.2 ft                                                                       |                       |               | TOTAL DEPTH 20.0 ft |            |       | NORTHING 822,949         |    |                       | EASTING 1,567,576       |                 | 24 HR. FIAD  |     |                                                                                     |                                                                                                                        |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                       |               |                     |            |       | DRILL METHOD H.S. Augers |    |                       | HAMMER TYPE Automatic   |                 |              |     |                                                                                     |                                                                                                                        |
| DRILLER D. Demby                                                                            |                       |               | START DATE 12/08/23 |            |       | COMP. DATE 12/08/23      |    |                       | SURFACE WATER DEPTH N/A |                 |              |     |                                                                                     |                                                                                                                        |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT          |            |       | BLOWS PER FOOT           |    |                       |                         |                 | SAMP.<br>NO. | MOI | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                                              |
|                                                                                             |                       |               | 0.5ft               | 0.5ft      | 0.5ft | 0                        | 25 | 50                    | 75                      | 100             |              |     |                                                                                     |                                                                                                                        |
| 815                                                                                         |                       |               |                     |            |       |                          |    |                       |                         |                 |              |     |                                                                                     |                                                                                                                        |
|                                                                                             | 811.2                 | 0.0           |                     |            |       |                          |    |                       |                         |                 |              |     |                                                                                     | 811.2 GROUND SURFACE 0.0                                                                                               |
| 810                                                                                         |                       |               |                     |            |       |                          |    |                       |                         |                 |              |     |                                                                                     |                                                                                                                        |
|                                                                                             | 807.7                 | 3.5           | 3                   | 7          | 8     |                          |    |                       |                         |                 |              | M   |  | 807.7 <b>RESIDUAL</b><br>Red and brown, CLAY (A-6), with<br>manganese oxides and root fragments, low<br>plasticity 3.5 |
|                                                                                             | 805.2                 | 6.0           | 5                   | 5          | 6     |                          |    |                       |                         |                 |              | M   |  | 805.2 Red, brown, and orange, SILT (A-5),<br>micaceous 3.5                                                             |
| 805                                                                                         |                       |               | 2                   | 3          | 5     |                          |    |                       |                         |                 |              | M   |  | 803.2 Red, white, and orange, silty SAND (A-2-4),<br>micaceous 8.0                                                     |
|                                                                                             | 802.7                 | 8.5           | 3                   | 3          | 3     |                          |    |                       |                         |                 |              | M   |  | 799.2 Orange, SILT (A-5), with manganese oxides,<br>micaceous, low plasticity 12.0                                     |
| 800                                                                                         |                       |               |                     |            |       |                          |    |                       |                         |                 |              |     |                                                                                     |                                                                                                                        |
|                                                                                             | 797.7                 | 13.5          | 2                   | 4          | 4     |                          |    |                       |                         |                 |              | M   |  | 791.2 Boring Terminated at Elevation 791.2 ft in<br>SILT (RESIDUAL) 20.0                                               |
| 795                                                                                         |                       |               |                     |            |       |                          |    |                       |                         |                 |              |     |                                                                                     |                                                                                                                        |
|                                                                                             | 792.7                 | 18.5          | 2                   | 3          | 4     |                          |    |                       |                         |                 |              | M   |  |                                                                                                                        |
|                                                                                             |                       |               |                     |            |       |                          |    |                       |                         |                 |              |     |                                                                                     |                                                                                                                        |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

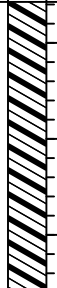
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |        |     |                                                                                    |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------------|--------|-----|------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |        |     |                                                                                    |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |        |     |                                                                                    |
| BORING NO. RPC1200                                                                          |                 |            | STATION 12+00       |       |       | OFFSET 55 ft RT          |    |    | ALIGNMENT -RPC-         |     |                 | 0 HR.  | 2.5 |                                                                                    |
| COLLAR ELEV. 775.0 ft                                                                       |                 |            | TOTAL DEPTH 20.0 ft |       |       | NORTHING 822,144         |    |    | EASTING 1,566,358       |     |                 | 24 HR. | 2.5 |                                                                                    |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |        |     |                                                                                    |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/05/23 |       |       | COMP. DATE 12/06/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |        |     |                                                                                    |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI    | LOG | SOIL AND ROCK DESCRIPTION                                                          |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |        |     |                                                                                    |
| 780                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |        |     |                                                                                    |
| 775                                                                                         | 775.0           | 0.0        |                     |       |       |                          |    |    |                         |     |                 |        |     | 775.0 GROUND SURFACE 0.0                                                           |
| 770                                                                                         | 771.5           | 3.5        | 2                   | 5     | 5     |                          |    |    |                         |     |                 |        |     | RESIDUAL<br>Brown and gray, sandy SILT (A-4), low to medium plasticity             |
|                                                                                             | 769.0           | 6.0        | 2                   | 2     | 1     |                          |    |    |                         |     |                 |        |     |                                                                                    |
| 765                                                                                         | 766.5           | 8.5        | 3                   | 3     | 5     |                          |    |    |                         |     |                 |        |     | 769.0 Brown, orange, tan, and black, silty SAND (A-2-4) 6.0                        |
|                                                                                             | 761.5           | 13.5       | 4                   | 2     | 4     |                          |    |    |                         |     |                 |        |     | 763.0 Orange and brown, sandy SILT (A-4), micaceous, low to medium plasticity 12.0 |
| 760                                                                                         | 756.5           | 18.5       | 2                   | 2     | 4     |                          |    |    |                         |     |                 |        |     | 755.0 Boring Terminated at Elevation 755.0 ft in SILT (RESIDUAL) 20.0              |
|                                                                                             |                 |            | 2                   | 3     | 5     |                          |    |    |                         |     |                 |        |     |                                                                                    |



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BORE LOG

|                                                                                             |                       |               |            |                     |       |                |    |                          |    |     |              |                         |                                                                                     |                                                                                                                                     |            |            |  |
|---------------------------------------------------------------------------------------------|-----------------------|---------------|------------|---------------------|-------|----------------|----|--------------------------|----|-----|--------------|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--|
| WBS 48647.1.1                                                                               |                       |               |            | TIP U-6187          |       |                |    | COUNTY DAVIE             |    |     |              | GEOLOGIST Q. Hill       |                                                                                     |                                                                                                                                     |            |            |  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |            |                     |       |                |    |                          |    |     |              | GROUND WTR (ft)         |                                                                                     |                                                                                                                                     |            |            |  |
| BORING NO. RPC1800                                                                          |                       |               |            | STATION 18+00       |       |                |    | OFFSET 30 ft LT          |    |     |              | ALIGNMENT -RPC-         |                                                                                     |                                                                                                                                     |            | 0 HR. Dry  |  |
| COLLAR ELEV. 787.1 ft                                                                       |                       |               |            | TOTAL DEPTH 15.0 ft |       |                |    | NORTHING 822,372         |    |     |              | EASTING 1,566,918       |                                                                                     |                                                                                                                                     |            | 24 HR. Dry |  |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                       |               |            |                     |       |                |    | DRILL METHOD H.S. Augers |    |     |              | HAMMER TYPE Automatic   |                                                                                     |                                                                                                                                     |            |            |  |
| DRILLER D. Demby                                                                            |                       |               |            | START DATE 12/04/23 |       |                |    | COMP. DATE 12/06/23      |    |     |              | SURFACE WATER DEPTH N/A |                                                                                     |                                                                                                                                     |            |            |  |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT |                     |       | BLOWS PER FOOT |    |                          |    |     | SAMP.<br>NO. | MOI                     | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                                                           |            |            |  |
|                                                                                             |                       |               | 0.5ft      | 0.5ft               | 0.5ft | 0              | 25 | 50                       | 75 | 100 |              |                         |                                                                                     | ELEV. (ft)                                                                                                                          | DEPTH (ft) |            |  |
| 790                                                                                         |                       |               |            |                     |       |                |    |                          |    |     |              |                         |                                                                                     |                                                                                                                                     |            |            |  |
| 785                                                                                         | 787.1                 | 0.0           |            |                     |       |                |    |                          |    |     |              |                         |                                                                                     | 787.1 GROUND SURFACE 0.0                                                                                                            |            |            |  |
|                                                                                             | 783.6                 | 3.5           | 2          | 3                   | 5     |                |    |                          |    |     |              | M                       |  | <b>RESIDUAL</b><br>Orange, red, brown, and tan, silty CLAY (A-6), with little sand and root fragments, micaceous, medium plasticity |            |            |  |
|                                                                                             | 781.1                 | 6.0           | 5          | 4                   | 5     |                |    |                          |    |     |              | M                       |                                                                                     |                                                                                                                                     |            |            |  |
| 780                                                                                         | 781.1                 | 6.0           | 3          | 2                   | 2     |                |    |                          |    |     |              | M                       |                                                                                     |                                                                                                                                     |            |            |  |
| 775                                                                                         | 778.6                 | 8.5           | 2          | 3                   | 4     |                |    |                          |    |     |              | M                       |                                                                                     |                                                                                                                                     |            |            |  |
|                                                                                             | 773.6                 | 13.5          | 1          | 1                   | 2     |                |    |                          |    |     |              | M                       |                                                                                     |                                                                                                                                     |            |            |  |
|                                                                                             |                       |               |            |                     |       |                |    |                          |    |     |              |                         |                                                                                     | 772.1 Boring Terminated at Elevation 772.1 ft in CLAY (RESIDUAL) 15.0                                                               |            |            |  |

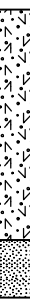
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                            |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|------------|--------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |            |                                                                                            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |            |                                                                                            |
| BORING NO. RPC2000                                                                          |                 |            | STATION 20+00       |       |       | OFFSET 20 ft RT          |    |    | ALIGNMENT -RPC-         |     |           | 0 HR. Dry  |                                                                                            |
| COLLAR ELEV. 787.3 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 822,362         |    |    | EASTING 1,567,122       |     |           | 24 HR. Dry |                                                                                            |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |            |                                                                                            |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/05/23 |       |       | COMP. DATE 12/06/23      |    |    | SURFACE WATER DEPTH N/A |     |           |            |                                                                                            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | LOG        | SOIL AND ROCK DESCRIPTION                                                                  |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |            |                                                                                            |
| 790                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                            |
| 785                                                                                         | 787.3           | 0.0        | 4                   | 7     | 12    |                          |    |    |                         |     |           |            | 787.3 GROUND SURFACE 0.0                                                                   |
|                                                                                             | 783.8           | 3.5        | 6                   | 12    | 16    |                          |    |    |                         |     | M         |            | RESIDUAL<br>Orange and brown, silty CLAY (A-6), with some roots, medium to high plasticity |
| 780                                                                                         | 781.3           | 6.0        | 6                   | 9     | 11    |                          |    |    |                         |     | M         |            |                                                                                            |
|                                                                                             | 778.8           | 8.5        | 7                   | 9     | 12    |                          |    |    |                         |     | M         |            |                                                                                            |
| 775                                                                                         | 773.8           | 13.5       | 3                   | 3     | 3     |                          |    |    |                         |     | M         |            |                                                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            | 775.3 Orange and tan, clayey SILT (A-5), micaceous, medium plasticity 12.0                 |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            | 772.3 Boring Terminated at Elevation 772.3 ft in SILT (RESIDUAL) 15.0                      |



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GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                   |                         |                 |     |                                                                                     |                                                                                                                   |            |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|---------------------|-------|--------------------------|---------------------|-------------------|-------------------|-------------------------|-----------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------|
| WBS 48647.1.1                                                                               |                 |            |                     | TIP U-6187          |       | COUNTY DAVIE             |                     | GEOLOGIST Q. Hill |                   |                         |                 |     |                                                                                     |                                                                                                                   |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |                     |       |                          |                     |                   |                   |                         | GROUND WTR (ft) |     |                                                                                     |                                                                                                                   |            |
| BORING NO. RPD1200                                                                          |                 |            | STATION 12+00       |                     |       | OFFSET 30 ft LT          |                     |                   | ALIGNMENT -RPD-   |                         | 0 HR.           | Dry |                                                                                     |                                                                                                                   |            |
| COLLAR ELEV. 776.7 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |                     |       | NORTHING 823,042         |                     |                   | EASTING 1,568,878 |                         | 24 HR.          | Dry |                                                                                     |                                                                                                                   |            |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |                     |       | DRILL METHOD H.S. Augers |                     |                   |                   | HAMMER TYPE Automatic   |                 |     |                                                                                     |                                                                                                                   |            |
| DRILLER D. Demby                                                                            |                 |            |                     | START DATE 12/05/23 |       |                          | COMP. DATE 12/06/23 |                   |                   | SURFACE WATER DEPTH N/A |                 |     |                                                                                     |                                                                                                                   |            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |                     |       | BLOWS PER FOOT           |                     |                   |                   |                         | SAMP. NO.       | MOI | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                                         |            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft               | 0.5ft | 0                        | 25                  | 50                | 75                | 100                     |                 |     |                                                                                     | ELEV. (ft)                                                                                                        | DEPTH (ft) |
| 780                                                                                         |                 |            |                     |                     |       |                          |                     |                   |                   |                         |                 |     |                                                                                     |                                                                                                                   |            |
|                                                                                             | 776.7           | 0.0        | 4                   | 5                   | 8     |                          |                     |                   |                   |                         |                 |     |                                                                                     | 776.7                                                                                                             | 0.0        |
| 775                                                                                         |                 |            |                     |                     |       |                          |                     |                   |                   |                         |                 |     |                                                                                     |                                                                                                                   |            |
|                                                                                             | 773.2           | 3.5        | 2                   | 3                   | 4     |                          |                     |                   |                   |                         |                 | M   |  | RESIDUAL<br>Orange, tan, and black, clayey SILT (A-5), with manganese oxides, micaceous, low to medium plasticity |            |
|                                                                                             | 770.7           | 6.0        | 3                   | 3                   | 4     |                          |                     |                   |                   |                         |                 | M   |                                                                                     |                                                                                                                   |            |
| 770                                                                                         |                 |            |                     |                     |       |                          |                     |                   |                   |                         |                 | M   |                                                                                     |                                                                                                                   |            |
|                                                                                             | 768.2           | 8.5        | 2                   | 2                   | 7     |                          |                     |                   |                   |                         |                 | M   |                                                                                     |                                                                                                                   |            |
|                                                                                             | 763.2           | 13.5       | 2                   | 3                   | 4     |                          |                     |                   |                   |                         |                 | M   |                                                                                     | 764.7                                                                                                             | 12.0       |
| 765                                                                                         |                 |            |                     |                     |       |                          |                     |                   |                   |                         |                 |     |                                                                                     | 761.7                                                                                                             | 15.0       |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                   |                         |                 |     |                                                                                     | Boring Terminated at Elevation 761.7 ft in SILT (RESIDUAL)                                                        |            |

|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
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| WBS 48647.1.1                                                                               |                 |            |                     | TIP U-6187          |       | COUNTY DAVIE             |                     | GEOLOGIST Q. Hill |                       |                         |            |     |     |                                                                                                      |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |                     |       |                          |                     |                   |                       | GROUND WTR (ft)         |            |     |     |                                                                                                      |
| BORING NO. RPD1400                                                                          |                 |            | STATION 14+00       |                     |       | OFFSET 20 ft LT          |                     |                   | ALIGNMENT -RPD-       |                         | 0 HR. Dry  |     |     |                                                                                                      |
| COLLAR ELEV. 780.7 ft                                                                       |                 |            | TOTAL DEPTH 20.0 ft |                     |       | NORTHING 822,979         |                     |                   | EASTING 1,568,689     |                         | 24 HR. Dry |     |     |                                                                                                      |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |                     |       | DRILL METHOD H.S. Augers |                     |                   | HAMMER TYPE Automatic |                         |            |     |     |                                                                                                      |
| DRILLER D. Demby                                                                            |                 |            |                     | START DATE 12/05/23 |       |                          | COMP. DATE 12/06/23 |                   |                       | SURFACE WATER DEPTH N/A |            |     |     |                                                                                                      |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |                     |       | BLOWS PER FOOT           |                     |                   |                       |                         | SAMP. NO.  | MOI | LOG | SOIL AND ROCK DESCRIPTION                                                                            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft               | 0.5ft | 0                        | 25                  | 50                | 75                    | 100                     |            |     |     |                                                                                                      |
| 785                                                                                         |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
| 780                                                                                         | 780.7           | 0.0        |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             | 777.2           | 3.5        | 4                   | 6                   | 9     | 15                       |                     |                   |                       |                         |            | M   |     | 780.7 GROUND SURFACE 0.0                                                                             |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             | 774.7           | 6.0        | 5                   | 6                   | 9     | 15                       |                     |                   |                       |                         |            | M   |     | 777.2 RESIDUAL Orange and brown, silty CLAY (A-6), contains root fragments, medium plasticity 3.5    |
| 775                                                                                         |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             | 772.2           | 8.5        | 3                   | 4                   | 4     | 8                        |                     |                   |                       |                         |            | M   |     | 774.7 Orange, clayey SILT (A-4), micaceous, medium plasticity 6.0                                    |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             | 770.0           |            |                     |                     |       | 6                        |                     |                   |                       |                         |            | M   |     | 772.2 Orange, tan, and black, clayey SILT (A-5), with manganese oxides, micaceous, medium plasticity |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             | 767.2           | 13.5       | 3                   | 2                   | 4     | 5                        |                     |                   |                       |                         |            | M   |     | 770.0                                                                                                |
| 765                                                                                         |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             | 762.2           | 18.5       | 2                   | 2                   | 3     | 4                        |                     |                   |                       |                         |            | M   |     | 767.2 Tan, orange, and black, sandy SILT (A-4), with manganese oxides, low to medium plasticity 17.0 |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
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|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
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|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
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|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
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|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
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|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
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|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |
|                                                                                             |                 |            |                     |                     |       |                          |                     |                   |                       |                         |            |     |     |                                                                                                      |

NCDOT BORE DOUBLE U6187\_BORINGS.GPJ NC\_DOT.GDT 5/3/24

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|------------|-------|--------------------------|----|-------------------|-------------------------|-----------------|------------|-----|-----|---------------------------|--------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            |                     | TIP U-6187 |       | COUNTY DAVIE             |    | GEOLOGIST Q. Hill |                         |                 |            |     |     |                           |                                                                                |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |            |       |                          |    |                   |                         | GROUND WTR (ft) |            |     |     |                           |                                                                                |
| BORING NO. RPD1600                                                                          |                 |            | STATION 16+00       |            |       | OFFSET 40 ft LT          |    |                   | ALIGNMENT -RPD-         |                 | 0 HR. Dry  |     |     |                           |                                                                                |
| COLLAR ELEV. 785.5 ft                                                                       |                 |            | TOTAL DEPTH 20.0 ft |            |       | NORTHING 822,879         |    |                   | EASTING 1,568,516       |                 | 24 HR. Dry |     |     |                           |                                                                                |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |            |       | DRILL METHOD H.S. Augers |    |                   | HAMMER TYPE Automatic   |                 |            |     |     |                           |                                                                                |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/05/23 |            |       | COMP. DATE 12/06/23      |    |                   | SURFACE WATER DEPTH N/A |                 |            |     |     |                           |                                                                                |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |            |       | BLOWS PER FOOT           |    |                   |                         |                 | SAMP. NO.  | MOI | LOG | SOIL AND ROCK DESCRIPTION |                                                                                |
|                                                                                             |                 |            | 0.5ft               | 0.5ft      | 0.5ft | 0                        | 25 | 50                | 75                      | 100             |            |     |     | ELEV. (ft)                | DEPTH (ft)                                                                     |
| 790                                                                                         |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
| 785                                                                                         | 785.5           | 0.0        |                     |            |       |                          |    |                   |                         |                 |            |     |     | 785.5                     | GROUND SURFACE 0.0                                                             |
| 780                                                                                         | 782.0           | 3.5        | 4                   | 4          | 5     |                          |    |                   |                         |                 |            |     |     |                           | RESIDUAL<br>Orange and brown, silty CLAY (A-6), medium to high plasticity      |
|                                                                                             | 779.5           | 6.0        | 6                   | 8          | 13    |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
| 775                                                                                         | 777.0           | 8.5        | 5                   | 7          | 8     |                          |    |                   |                         |                 |            |     |     | 777.0                     | 8.5                                                                            |
|                                                                                             | 772.0           | 13.5       | 4                   | 3          | 5     |                          |    |                   |                         |                 |            |     |     |                           | Orange, SILT (A-5), with manganese oxides, micaceous, low to medium plasticity |
| 770                                                                                         | 767.0           | 18.5       | 2                   | 3          | 3     |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |
|                                                                                             |                 |            |                     |            |       |                          |    |                   |                         |                 |            |     |     |                           |                                                                                |

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                     |                                                                                            |      |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |            |                                                                                     |                                                                                            |      |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |            |                                                                                     |                                                                                            |      |
| BORING NO. RPD1800                                                                          |                 |            | STATION 18+00       |       |       | OFFSET 30 ft RT          |    |    | ALIGNMENT -RPD-         |     |           | 0 HR. Dry  |                                                                                     |                                                                                            |      |
| COLLAR ELEV. 779.1 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 822,850         |    |    | EASTING 1,568,307       |     |           | 24 HR. Dry |                                                                                     |                                                                                            |      |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |            |                                                                                     |                                                                                            |      |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/05/23 |       |       | COMP. DATE 12/06/23      |    |    | SURFACE WATER DEPTH N/A |     |           |            |                                                                                     |                                                                                            |      |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI        | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                  |      |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |            |                                                                                     |                                                                                            |      |
| 780                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                     |                                                                                            |      |
| 775                                                                                         | 779.1           | 0.0        | 4                   | 5     | 9     |                          |    |    |                         |     |           |            |                                                                                     | 779.1 GROUND SURFACE 0.0                                                                   |      |
|                                                                                             | 775.6           | 3.5        | 5                   | 9     | 10    |                          |    |    |                         |     |           | M          |  | RESIDUAL<br>Orange and brown, silty CLAY (A-6), medium plasticity                          | 3.5  |
| 770                                                                                         | 773.1           | 6.0        | 3                   | 5     | 5     |                          |    |    |                         |     |           | M          |  | Orange, tan, and black, clayey SILT (A-4), with manganese oxides, low to medium plasticity |      |
|                                                                                             | 770.6           | 8.5        | 3                   | 4     | 4     |                          |    |    |                         |     |           | M          |                                                                                     |                                                                                            |      |
| 765                                                                                         | 765.6           | 13.5       | 1                   | 2     | 2     |                          |    |    |                         |     |           | M          |                                                                                     | 764.1 Boring Terminated at Elevation 764.1 ft in SILT (RESIDUAL)                           | 15.0 |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                     |                                                                                            |      |

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|---------------------------------------------------------------------------------------------|-----------------|------------|------------|---------------------|-------|----------------|----|--------------------------|----|-----|-----------|-------------------------|-----|---------------------------|------------|-------------|--|
| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       |                |    | COUNTY DAVIE             |    |     |           | GEOLOGIST Q. Hill       |     |                           |            |             |  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                |    |                          |    |     |           | GROUND WTR (ft)         |     |                           |            |             |  |
| BORING NO. RPD2000                                                                          |                 |            |            | STATION 20+00       |       |                |    | OFFSET 15 ft LT          |    |     |           | ALIGNMENT -RPD-         |     |                           |            | 0 HR. 13.7  |  |
| COLLAR ELEV. 770.5 ft                                                                       |                 |            |            | TOTAL DEPTH 43.6 ft |       |                |    | NORTHING 822,711         |    |     |           | EASTING 1,568,156       |     |                           |            | 24 HR. FIAD |  |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |            |                     |       |                |    | DRILL METHOD H.S. Augers |    |     |           | HAMMER TYPE Automatic   |     |                           |            |             |  |
| DRILLER D. Demby                                                                            |                 |            |            | START DATE 12/04/23 |       |                |    | COMP. DATE 12/04/23      |    |     |           | SURFACE WATER DEPTH N/A |     |                           |            |             |  |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT |    |                          |    |     | SAMP. NO. | MOI                     | LOG | SOIL AND ROCK DESCRIPTION |            |             |  |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0              | 25 | 50                       | 75 | 100 |           |                         |     | ELEV. (ft)                | DEPTH (ft) |             |  |
| 775                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 770                                                                                         | 770.5           | 0.0        |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 765                                                                                         | 767.0           | 3.5        | 3          | 6                   | 7     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             | 764.5           | 6.0        | 5          | 6                   | 9     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 760                                                                                         | 762.0           | 8.5        | 2          | 1                   | 3     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             | 757.0           | 13.5       | WOH        | 1                   | 2     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 755                                                                                         | 752.0           | 18.5       | 2          | 1                   | 4     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 750                                                                                         | 747.0           | 23.5       | 2          | 4                   | 5     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 745                                                                                         | 742.0           | 28.5       | 3          | 6                   | 8     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             | 737.0           | 33.5       | 5          | 7                   | 9     |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 735                                                                                         | 732.0           | 38.5       | 6          | 11                  | 14    |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             | 727.0           | 43.5       | 14         | 28                  | 45    |                |    |                          |    |     |           |                         |     |                           |            |             |  |
| 730                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                           |            |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    | </  |           |                         |     |                           |            |             |  |

|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|---------------------------------------------------------------------------------------------|-----------------|------------|------------|---------------------|-------|----------------|----|--------------------------|----|-----|-----------|-------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------|--|-------------|--|
| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       |                |    | COUNTY DAVIE             |    |     |           | GEOLOGIST Q. Hill       |     |                                                                                                                             |  |             |  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                |    |                          |    |     |           | GROUND WTR (ft)         |     |                                                                                                                             |  |             |  |
| BORING NO. RPD2200                                                                          |                 |            |            | STATION 22+00       |       |                |    | OFFSET 25 ft RT          |    |     |           | ALIGNMENT -RPD-         |     |                                                                                                                             |  | 0 HR. Dry   |  |
| COLLAR ELEV. 769.7 ft                                                                       |                 |            |            | TOTAL DEPTH 48.6 ft |       |                |    | NORTHING 822,635         |    |     |           | EASTING 1,567,967       |     |                                                                                                                             |  | 24 HR. FIAD |  |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |            |                     |       |                |    | DRILL METHOD H.S. Augers |    |     |           | HAMMER TYPE Automatic   |     |                                                                                                                             |  |             |  |
| DRILLER D. Demby                                                                            |                 |            |            | START DATE 12/04/23 |       |                |    | COMP. DATE 12/04/23      |    |     |           | SURFACE WATER DEPTH N/A |     |                                                                                                                             |  |             |  |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT |    |                          |    |     | SAMP. NO. | MOI                     | LOG | SOIL AND ROCK DESCRIPTION                                                                                                   |  |             |  |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0              | 25 | 50                       | 75 | 100 |           |                         |     |                                                                                                                             |  |             |  |
| 770                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             | 769.7           | 0.0        | 2          | 2                   | 5     |                |    |                          |    |     |           |                         |     | 769.7 GROUND SURFACE 0.0                                                                                                    |  |             |  |
| 765                                                                                         | 766.2           | 3.5        | 2          | 2                   | 3     |                |    |                          |    |     |           |                         |     | <b>RESIDUAL</b><br>Brown and orange, silty CLAY (A-7), contains wood fragments, micaceous, medium to high plasticity        |  |             |  |
|                                                                                             | 763.7           | 6.0        | WOH        | WOH                 | WOH   |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             | 761.2           | 8.5        | WOH        | 1                   | 2     |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
| 760                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | 761.7 Orange, brown, and white, sandy and clayey SILT (A-4), low to medium plasticity 8.0                                   |  |             |  |
| 755                                                                                         | 756.2           | 13.5       | WOH        | 3                   | 3     |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             | 751.2           | 18.5       | 4          | 5                   | 7     |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             | 746.2           | 23.5       | 11         | 12                  | 11    |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
| 745                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | 747.7 Gray and tan, silty SAND (A-2-4) 22.0                                                                                 |  |             |  |
| 740                                                                                         | 741.2           | 28.5       | 6          | 17                  | 23    |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             | 736.2           | 33.5       | 32         | 68/0.4              |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             | 730.8           | 38.9       | 100/0.3    |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
| 735                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | 742.7 Black and white, clayey SAND (A-2-6), with trace silt, saprolitic 27.0                                                |  |             |  |
| 730                                                                                         | 726.2           | 43.5       | 60/0.1     |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             | 721.2           | 48.5       | 60/0.1     |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
| 725                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | 735.7 WEATHERED ROCK 34.0                                                                                                   |  |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | Black and white, META-GABBRO                                                                                                |  |             |  |
| 720                                                                                         |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     |                                                                                                                             |  |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | 726.2 CRYSTALLINE ROCK 43.5                                                                                                 |  |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | Black and white, META-GABBRO                                                                                                |  |             |  |
|                                                                                             |                 |            |            |                     |       |                |    |                          |    |     |           |                         |     | 721.1 Boring Terminated with Standard Penetration Test Refusal at Elevation 721.1 ft in CRYSTALLINE ROCK (META-GABBRO) 48.6 |  |             |  |

NCDOT BORE DOUBLE U6187\_BORINGS.GPJ NC\_DOT.GDT 5/3/24

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                 |
|---------------------------------------------------------------------------------------------|-----------------------|---------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|--------------|-------------|-----|-----------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                       |               | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |              |             |     |                                                                                                                 |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |              |             |     |                                                                                                                 |
| BORING NO. Y11050                                                                           |                       |               | STATION 10+50       |       |       | OFFSET 20 ft RT          |    |    | ALIGNMENT -Y1-          |     |              | 0 HR. Dry   |     |                                                                                                                 |
| COLLAR ELEV. 883.0 ft                                                                       |                       |               | TOTAL DEPTH 15.0 ft |       |       | NORTHING 818,402         |    |    | EASTING 1,566,067       |     |              | 24 HR. FIAD |     |                                                                                                                 |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                       |               |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |              |             |     |                                                                                                                 |
| DRILLER M. Brewer                                                                           |                       |               | START DATE 12/01/23 |       |       | COMP. DATE 12/01/23      |    |    | SURFACE WATER DEPTH N/A |     |              |             |     |                                                                                                                 |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP.<br>NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                                       |
|                                                                                             |                       |               | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |              |             |     |                                                                                                                 |
| 885                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                 |
| 880                                                                                         | 881.5                 | 1.5           | 5                   | 3     | 4     |                          |    |    |                         |     |              |             |     | 883.0 GROUND SURFACE 0.0                                                                                        |
|                                                                                             | 879.5                 | 3.5           | 3                   | 5     | 5     |                          |    |    |                         |     |              |             |     | 881.8 ROADWAY EMBANKMENT PAVEMENT 1.3                                                                           |
| 875                                                                                         | 877.0                 | 6.0           | 1                   | 2     | 2     |                          |    |    |                         |     |              |             |     | RESIDUAL<br>Orange, tan, and brown, sandy SILT (A-4),<br>with trace manganese oxides, low to high<br>plasticity |
|                                                                                             | 874.5                 | 8.5           | 2                   | 4     | 4     |                          |    |    |                         |     |              |             |     |                                                                                                                 |
| 870                                                                                         |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     |                                                                                                                 |
|                                                                                             | 869.5                 | 13.5          | 4                   | 10    | 10    |                          |    |    |                         |     |              |             |     | 871.0 12.0<br>Orange, silty SAND (A-2-4), with some rock<br>fragments                                           |
|                                                                                             |                       |               |                     |       |       |                          |    |    |                         |     |              |             |     | 868.0 15.0<br>Boring Terminated at Elevation 868.0 ft in<br>SAND (RESIDUAL)                                     |

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                         |    |    |                         |     |           |                                                                                     |                                                                                                                        |                           |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|-------------------------|----|----|-------------------------|-----|-----------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE            |    |    | GEOLOGIST Q. Hill       |     |           |                                                                                     |                                                                                                                        |                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                         |    |    | GROUND WTR (ft)         |     |           |                                                                                     |                                                                                                                        |                           |
| BORING NO. Y11450                                                                           |                 |            | STATION 14+50       |       |       | OFFSET 20 ft LT         |    |    | ALIGNMENT -Y1-          |     |           | 0 HR. Dry                                                                           |                                                                                                                        |                           |
| COLLAR ELEV. 869.5 ft                                                                       |                 |            | TOTAL DEPTH 6.0 ft  |       |       | NORTHING 818,549        |    |    | EASTING 1,566,440       |     |           | 24 HR. FIAD                                                                         |                                                                                                                        |                           |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                 |            |                     |       |       | DRILL METHOD Hand Auger |    |    | HAMMER TYPE N/A         |     |           |                                                                                     |                                                                                                                        |                           |
| DRILLER Q. Hill                                                                             |                 |            | START DATE 02/01/24 |       |       | COMP. DATE 02/01/24     |    |    | SURFACE WATER DEPTH N/A |     |           |                                                                                     |                                                                                                                        |                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT          |    |    |                         |     | SAMP. NO. | MOI                                                                                 | LOG                                                                                                                    | SOIL AND ROCK DESCRIPTION |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                       | 25 | 50 | 75                      | 100 |           |                                                                                     |                                                                                                                        |                           |
| 870                                                                                         |                 |            |                     |       |       |                         |    |    |                         |     |           |                                                                                     |                                                                                                                        | 869.5 GROUND SURFACE 0.0  |
| 865                                                                                         |                 |            |                     |       |       | . . . . .               |    |    |                         |     | M         |  | RESIDUAL                                                                                                               |                           |
|                                                                                             |                 |            |                     |       |       | . . . . .               |    |    |                         |     |           |                                                                                     | Medium stiff, red and brown, silty CLAY (A-7-5) with trace to little sand and rock fragments, low to medium plasticity |                           |
|                                                                                             |                 |            |                     |       |       | . . . . .               |    |    |                         |     |           |                                                                                     |                                                                                                                        |                           |
|                                                                                             |                 |            |                     |       |       |                         |    |    |                         |     |           |                                                                                     |                                                                                                                        | 863.5 6.0                 |
|                                                                                             |                 |            |                     |       |       |                         |    |    |                         |     |           |                                                                                     | Boring Terminated at Elevation 863.5 ft in CLAY (RESIDUAL)                                                             |                           |
|                                                                                             |                 |            |                     |       |       |                         |    |    |                         |     |           |                                                                                     | Kessler DCP Test performed to estimate soil strength                                                                   |                           |



GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       |                                                                                                   |
|---------------------------------------------------------------------------------------------|-----------------|------------|------------|---------------------|-------|-------------------------|----|-------------------------|----|-------------|-----|-------|---------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       | COUNTY DAVIE            |    | GEOLOGIST Q. Hill       |    |             |     |       |                                                                                                   |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                         |    | GROUND WTR (ft)         |    |             |     |       |                                                                                                   |
| BORING NO. Y11650                                                                           |                 |            |            | STATION 16+50       |       | OFFSET 30 ft RT         |    | ALIGNMENT -Y1-          |    | 0 HR. Dry   |     |       |                                                                                                   |
| COLLAR ELEV. 861.9 ft                                                                       |                 |            |            | TOTAL DEPTH 6.0 ft  |       | NORTHING 818,548        |    | EASTING 1,566,646       |    | 24 HR. FIAD |     |       |                                                                                                   |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                 |            |            |                     |       | DRILL METHOD Hand Auger |    | HAMMER TYPE N/A         |    |             |     |       |                                                                                                   |
| DRILLER Q. Hill                                                                             |                 |            |            | START DATE 01/04/24 |       | COMP. DATE 01/04/24     |    | SURFACE WATER DEPTH N/A |    |             |     |       |                                                                                                   |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT          |    |                         |    | SAMP. NO.   | MOI | L O G | SOIL AND ROCK DESCRIPTION                                                                         |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0                       | 25 | 50                      | 75 | 100         |     |       |                                                                                                   |
| 865                                                                                         |                 |            |            |                     |       |                         |    |                         |    |             |     |       |                                                                                                   |
| 860                                                                                         |                 |            |            |                     |       |                         |    |                         |    |             | M   |       | 861.9 GROUND SURFACE 0.0                                                                          |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | ROADWAY EMBANKMENT<br>Medium stiff, red and brown, silty CLAY (A-7-6), with trace sand and gravel |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | 855.9 Boring Terminated at Elevation 855.9 ft in CLAY (ROADWAY EMBANKMENT) 6.0                    |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | Kessler DCP Test performed to estimate soil strength                                              |

|                                                                                             |                 |            |            |                     |       |                          |    |                         |    |             |     |       |                                                                                                             |
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| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       | COUNTY DAVIE             |    | GEOLOGIST Q. Hill       |    |             |     |       |                                                                                                             |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                          |    | GROUND WTR (ft)         |    |             |     |       |                                                                                                             |
| BORING NO. Y11850                                                                           |                 |            |            | STATION 18+50       |       | OFFSET 30 ft LT          |    | ALIGNMENT -Y1-          |    | 0 HR. Dry   |     |       |                                                                                                             |
| COLLAR ELEV. 860.9 ft                                                                       |                 |            |            | TOTAL DEPTH 15.0 ft |       | NORTHING 818,654         |    | EASTING 1,566,826       |    | 24 HR. FIAD |     |       |                                                                                                             |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |            |                     |       | DRILL METHOD H.S. Augers |    | HAMMER TYPE Automatic   |    |             |     |       |                                                                                                             |
| DRILLER D. Demby                                                                            |                 |            |            | START DATE 12/13/23 |       | COMP. DATE 12/13/23      |    | SURFACE WATER DEPTH N/A |    |             |     |       |                                                                                                             |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT           |    |                         |    | SAMP. NO.   | MOI | L O G | SOIL AND ROCK DESCRIPTION                                                                                   |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0                        | 25 | 50                      | 75 | 100         |     |       |                                                                                                             |
| 865                                                                                         |                 |            |            |                     |       |                          |    |                         |    |             |     |       |                                                                                                             |
| 860                                                                                         | 860.9           | 0.0        |            |                     |       |                          |    |                         |    |             |     |       | 860.9 GROUND SURFACE 0.0                                                                                    |
|                                                                                             |                 |            | 4          | 4                   | 6     |                          |    |                         |    |             | M   |       | RESIDUAL<br>Orange, brown, and black, clayey SILT (A-5), contains root fragments, medium to high plasticity |
|                                                                                             | 857.4           | 3.5        |            |                     |       |                          |    |                         |    |             | M   |       |                                                                                                             |
|                                                                                             | 854.9           | 6.0        | 3          | 6                   | 10    |                          |    |                         |    |             | M   |       |                                                                                                             |
|                                                                                             | 854.9           | 6.0        | 3          | 4                   | 6     |                          |    |                         |    |             | M   |       |                                                                                                             |
|                                                                                             | 852.4           | 8.5        | 3          | 6                   | 8     |                          |    |                         |    |             | M   |       |                                                                                                             |
| 850                                                                                         |                 |            |            |                     |       |                          |    |                         |    |             |     |       |                                                                                                             |
|                                                                                             | 847.4           | 13.5       | 9          | 13                  | 11    |                          |    |                         |    |             | M   |       | 848.9 Orange and brown, silty SAND (A-2-4), with trace rock fragments 12.0                                  |
|                                                                                             |                 |            |            |                     |       |                          |    |                         |    |             |     |       | 845.9 Boring Terminated at Elevation 845.9 ft in SAND (RESIDUAL) 15.0                                       |

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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                                            |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |            |                                                                                                            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |            |                                                                                                            |
| BORING NO. Y12250                                                                           |                 |            | STATION 22+50       |       |       | OFFSET 55 ft LT          |    |    | ALIGNMENT -Y1-          |     |           | 0 HR. Dry  |                                                                                                            |
| COLLAR ELEV. 851.8 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 818,755         |    |    | EASTING 1,567,213       |     |           | 24 HR. Dry |                                                                                                            |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |            |                                                                                                            |
| DRILLER J. Kiker                                                                            |                 |            | START DATE 11/15/23 |       |       | COMP. DATE 11/16/23      |    |    | SURFACE WATER DEPTH N/A |     |           |            |                                                                                                            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | LOG        | SOIL AND ROCK DESCRIPTION                                                                                  |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |            |                                                                                                            |
| 855                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                                            |
|                                                                                             | 851.8           | 0.0        |                     |       |       |                          |    |    |                         |     |           |            | 851.8 GROUND SURFACE 0.0                                                                                   |
| 850                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                                            |
|                                                                                             | 848.3           | 3.5        | 4                   | 8     | 9     |                          |    |    |                         |     |           |            | 848.3 BROWN, sandy SILT (A-4), contains root fragments 3.5                                                 |
|                                                                                             | 845.3           | 6.5        | 11                  | 8     | 9     |                          |    |    |                         |     |           |            | 845.3 ORANGE, silty CLAY (A-7-6), highly plastic 6.0                                                       |
| 845                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                                            |
|                                                                                             | 843.3           | 8.5        | 7                   | 9     | 9     |                          |    |    |                         |     |           |            | 843.3 ORANGE and black, sandy SILT (A-4), with trace rock fragments and little clay, medium plasticity 6.0 |
|                                                                                             |                 |            | 4                   | 6     | 10    |                          |    |    |                         |     |           |            |                                                                                                            |
| 840                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |            |                                                                                                            |
|                                                                                             | 838.3           | 13.5       | 5                   | 6     | 9     |                          |    |    |                         |     |           |            | 838.3 ORANGE, silty SAND (A-2-4), with some rock fragments 12.0                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |            | 836.8 Boring Terminated at Elevation 836.8 ft in SAND (RESIDUAL) 15.0                                      |



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|                                                                                             |                       |               |                     |       |       |                         |    |    |                         |              |     |             |                                                                                                                                                  |
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| WBS 48647.1.1                                                                               |                       |               | TIP U-6187          |       |       | COUNTY DAVIE            |    |    | GEOLOGIST Q. Hill       |              |     |             |                                                                                                                                                  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |                     |       |       |                         |    |    | GROUND WTR (ft)         |              |     |             |                                                                                                                                                  |
| BORING NO. Y12850                                                                           |                       |               | STATION 28+50       |       |       | OFFSET 20 ft LT         |    |    | ALIGNMENT -Y1-          |              |     | 0 HR. Dry   |                                                                                                                                                  |
| COLLAR ELEV. 831.2 ft                                                                       |                       |               | TOTAL DEPTH 6.0 ft  |       |       | NORTHING 818,893        |    |    | EASTING 1,567,795       |              |     | 24 HR. FIAD |                                                                                                                                                  |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                       |               |                     |       |       | DRILL METHOD Hand Auger |    |    | HAMMER TYPE N/A         |              |     |             |                                                                                                                                                  |
| DRILLER Q. Hill                                                                             |                       |               | START DATE 01/04/24 |       |       | COMP. DATE 01/04/24     |    |    | SURFACE WATER DEPTH N/A |              |     |             |                                                                                                                                                  |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT          |       |       | BLOWS PER FOOT          |    |    |                         | SAMP.<br>NO. | MOI | L<br>O<br>G | SOIL AND ROCK DESCRIPTION                                                                                                                        |
|                                                                                             |                       |               | 0.5ft               | 0.5ft | 0.5ft | 0                       | 25 | 50 | 75                      | 100          |     |             |                                                                                                                                                  |
| 835                                                                                         |                       |               |                     |       |       |                         |    |    |                         |              |     |             |                                                                                                                                                  |
| 830                                                                                         |                       |               |                     |       |       |                         |    |    |                         |              |     |             |                                                                                                                                                  |
|                                                                                             |                       |               |                     |       |       |                         |    |    |                         |              | M   |             | 831.2 GROUND SURFACE 0.0                                                                                                                         |
|                                                                                             |                       |               |                     |       |       |                         |    |    |                         |              |     |             | ROADWAY EMBANKMENT<br>Medium stiff, orange and brown, silty CLAY<br>(A-7-6), with little sand and gravel                                         |
|                                                                                             |                       |               |                     |       |       |                         |    |    |                         |              |     |             | 825.2 Boring Terminated at Elevation 825.2 ft in<br>CLAY (ROADWAY EMBANKMENT)<br><br>Kessler DCP Test performed to estimate soil<br>strength 6.0 |

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       |                                                                                                                                         |
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| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       | COUNTY DAVIE            |    | GEOLOGIST Q. Hill       |    |             |     |       |                                                                                                                                         |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                         |    | GROUND WTR (ft)         |    |             |     |       |                                                                                                                                         |
| BORING NO. Y13050                                                                           |                 |            |            | STATION 30+50       |       | OFFSET 30 ft RT         |    | ALIGNMENT -Y1-          |    | 0 HR. Dry   |     |       |                                                                                                                                         |
| COLLAR ELEV. 832.3 ft                                                                       |                 |            |            | TOTAL DEPTH 6.0 ft  |       | NORTHING 818,917        |    | EASTING 1,568,000       |    | 24 HR. FIAD |     |       |                                                                                                                                         |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                 |            |            |                     |       | DRILL METHOD Hand Auger |    | HAMMER TYPE N/A         |    |             |     |       |                                                                                                                                         |
| DRILLER J. Crenshaw                                                                         |                 |            |            | START DATE 12/20/23 |       | COMP. DATE 12/20/23     |    | SURFACE WATER DEPTH N/A |    |             |     |       |                                                                                                                                         |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT          |    |                         |    | SAMP. NO.   | MOI | L O G | SOIL AND ROCK DESCRIPTION                                                                                                               |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0                       | 25 | 50                      | 75 | 100         |     |       |                                                                                                                                         |
| 835                                                                                         |                 |            |            |                     |       |                         |    |                         |    |             |     |       |                                                                                                                                         |
| 830                                                                                         |                 |            |            |                     |       |                         |    |                         |    |             | M   |       | 832.3 GROUND SURFACE 0.0                                                                                                                |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | RESIDUAL<br>Medium stiff, brown and red, silty CLAY (A-7-6), contains root fragments and trace rock fragments, low to medium plasticity |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | 826.3 6.0                                                                                                                               |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | Boring Terminated at Elevation 826.3 ft in CLAY (RESIDUAL)                                                                              |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | Kessler DCP Test performed to estimate soil strength                                                                                    |

|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       |                                                                                                                            |
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| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       | COUNTY DAVIE            |    | GEOLOGIST Q. Hill       |    |             |     |       |                                                                                                                            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                         |    | GROUND WTR (ft)         |    |             |     |       |                                                                                                                            |
| BORING NO. Y13250                                                                           |                 |            |            | STATION 32+50       |       | OFFSET 35 ft LT         |    | ALIGNMENT -Y1-          |    | 0 HR. Dry   |     |       |                                                                                                                            |
| COLLAR ELEV. 827.9 ft                                                                       |                 |            |            | TOTAL DEPTH 6.0 ft  |       | NORTHING 819,062        |    | EASTING 1,568,153       |    | 24 HR. FIAD |     |       |                                                                                                                            |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                 |            |            |                     |       | DRILL METHOD Hand Auger |    | HAMMER TYPE N/A         |    |             |     |       |                                                                                                                            |
| DRILLER J. Crenshaw                                                                         |                 |            |            | START DATE 12/20/23 |       | COMP. DATE 12/20/23     |    | SURFACE WATER DEPTH N/A |    |             |     |       |                                                                                                                            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT          |    |                         |    | SAMP. NO.   | MOI | L O G | SOIL AND ROCK DESCRIPTION                                                                                                  |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0                       | 25 | 50                      | 75 | 100         |     |       |                                                                                                                            |
| 830                                                                                         |                 |            |            |                     |       |                         |    |                         |    |             |     |       |                                                                                                                            |
| 825                                                                                         |                 |            |            |                     |       |                         |    |                         |    |             | M   |       | 827.9 GROUND SURFACE 0.0                                                                                                   |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | ROADWAY EMBANKMENT<br>Medium stiff, orange and brown, sandy CLAY (A-6), with some silt and trace gravel, medium plasticity |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | 821.9 6.0                                                                                                                  |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | Boring Terminated at Elevation 821.9 ft in CLAY (ROADWAY EMBANKMENT)                                                       |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |    |             |     |       | Kessler DCP Test performed to estimate soil strength                                                                       |

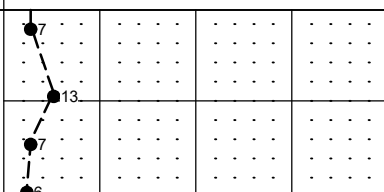
NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

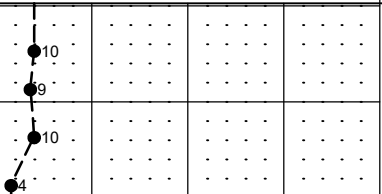
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |             |     |                                                                                                    |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |             |     |                                                                                                    |
| BORING NO. Y22000                                                                           |                 |            | STATION 20+00       |       |       | OFFSET 75 ft LT          |    |    | ALIGNMENT -Y2-          |     |           | 0 HR. Dry   |     |                                                                                                    |
| COLLAR ELEV. 824.6 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 821,901         |    |    | EASTING 1,565,071       |     |           | 24 HR. FIAD |     |                                                                                                    |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |             |     |                                                                                                    |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/30/23 |       |       | COMP. DATE 11/30/23      |    |    | SURFACE WATER DEPTH N/A |     |           |             |     |                                                                                                    |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                          |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |             |     |                                                                                                    |
| 825                                                                                         | 824.6           | 0.0        | 5                   | 7     | 3     |                          |    |    |                         |     |           |             |     | 824.6 GROUND SURFACE 0.0                                                                           |
|                                                                                             | 824.0           |            |                     |       |       |                          |    |    |                         |     |           | M           |     | 824.0 7 inches of Topsoil 0.6                                                                      |
| 820                                                                                         | 821.1           | 3.5        | 3                   | 4     | 4     |                          |    |    |                         |     |           | M           |     | 821.1 Orange, silty CLAY (A-6), with some rock fragments, medium plasticity 3.5                    |
|                                                                                             | 818.6           | 6.0        | 2                   | 2     | 3     |                          |    |    |                         |     |           | M           |     |                                                                                                    |
|                                                                                             | 816.1           | 8.5        | 1                   | 1     | 2     |                          |    |    |                         |     |           | M           |     | Orange and brown, clayey SILT (A-4), with trace sand, micaceous, low to medium plasticity          |
| 815                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           | M           |     |                                                                                                    |
|                                                                                             | 811.1           | 13.5       | WOH                 | 1     | 1     |                          |    |    |                         |     |           | M           |     | 812.6 Orange, silty CLAY (A-6), with trace sand, contains manganese oxides, medium plasticity 12.0 |
| 810                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           | M           |     | 809.6 Boring Terminated at Elevation 809.6 ft in CLAY (RESIDUAL) 15.0                              |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                    |
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NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                                                      |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------------|-------------|-----|------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |             |     |                                                                                                      |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |             |     |                                                                                                      |
| BORING NO. Y22400                                                                           |                 |            | STATION 24+00       |       |       | OFFSET 90 ft LT          |    |    | ALIGNMENT -Y2-          |     |                 | 0 HR. Dry   |     |                                                                                                      |
| COLLAR ELEV. 811.6 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 822,047         |    |    | EASTING 1,565,444       |     |                 | 24 HR. FIAD |     |                                                                                                      |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |             |     |                                                                                                      |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/30/23 |       |       | COMP. DATE 11/30/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |             |     |                                                                                                      |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |             |     |                                                                                                      |
| 815                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                                                      |
| 810                                                                                         | 811.6           | 0.0        | 5                   | 5     | 7     |                          |    |    |                         |     |                 |             |     | 811.6 GROUND SURFACE 0.0                                                                             |
|                                                                                             | 810.8           |            |                     |       |       |                          |    |    |                         |     | M               |             |     | 810.8 TOPSOIL 0.8                                                                                    |
|                                                                                             | 808.1           | 3.5        | 9                   | 9     | 13    |                          |    |    |                         |     | M               |             |     | 808.1 RESIDUAL 3.5                                                                                   |
| 805                                                                                         | 805.6           | 6.0        | 9                   | 11    | 14    |                          |    |    |                         |     | M               |             |     | Brown, silty SAND (A-2-4)                                                                            |
|                                                                                             | 803.1           | 8.5        | 10                  | 12    | 27    |                          |    |    |                         |     | M               |             |     | Orange and brown sandy SILT and SILT (A-4), trace to little rock fragments, low to medium plasticity |
| 800                                                                                         | 798.1           | 13.5       | 8                   | 13    | 12    |                          |    |    |                         |     | M               |             |     | 796.6 Boring Terminated at Elevation 796.6 ft in SILT (RESIDUAL) 15.0                                |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                                                      |
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GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |            |                     |       |                                                                                   |    |                         |                       |                 |      |                                                                                     |                                                     |            |
|---------------------------------------------------------------------------------------------|-----------------|------------|------------|---------------------|-------|-----------------------------------------------------------------------------------|----|-------------------------|-----------------------|-----------------|------|-------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       | COUNTY DAVIE                                                                      |    | GEOLOGIST Q. Hill       |                       |                 |      |                                                                                     |                                                     |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                                                                                   |    |                         |                       | GROUND WTR (ft) |      |                                                                                     |                                                     |            |
| BORING NO. Y22500_WB_IGM                                                                    |                 |            |            | STATION 25+00       |       | OFFSET 15 ft LT                                                                   |    | ALIGNMENT -Y2-          |                       | 0 HR.           | Dry  |                                                                                     |                                                     |            |
| COLLAR ELEV. 814.7 ft                                                                       |                 |            |            | TOTAL DEPTH 10.0 ft |       | NORTHING 822,009                                                                  |    | EASTING 1,565,563       |                       | 24 HR.          | FIAD |                                                                                     |                                                     |            |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |            |                     |       | DRILL METHOD H.S. Augers                                                          |    |                         | HAMMER TYPE Automatic |                 |      |                                                                                     |                                                     |            |
| DRILLER M. Brewer                                                                           |                 |            |            | START DATE 11/28/23 |       | COMP. DATE 11/28/23                                                               |    | SURFACE WATER DEPTH N/A |                       |                 |      |                                                                                     |                                                     |            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT                                                                    |    |                         |                       | SAMP. NO.       | LOG  | SOIL AND ROCK DESCRIPTION                                                           |                                                     |            |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0                                                                                 | 25 | 50                      | 75                    | 100             |      |                                                                                     | ELEV. (ft)                                          | DEPTH (ft) |
| 815                                                                                         |                 |            |            |                     |       |                                                                                   |    |                         |                       |                 |      |                                                                                     | 814.7                                               | 0.0        |
| 810                                                                                         | 814.7           | 0.0        | 2          | 3                   | 4     |  |    |                         |                       |                 | M    |  | RESIDUAL<br>Brown and orange, SILT (A-4), micaceous |            |
|                                                                                             | 811.2           | 3.5        | 5          | 6                   | 7     |                                                                                   |    |                         |                       | M               |      |                                                                                     |                                                     |            |
| 805                                                                                         | 808.7           | 6.0        | 2          | 3                   | 4     |                                                                                   |    |                         |                       |                 | M    |  | 808.7                                               | 6.0        |
|                                                                                             | 806.2           | 8.5        | 2          | 2                   | 4     |                                                                                   |    |                         |                       |                 | M    |                                                                                     | 804.7                                               | 10.0       |
| Boring Terminated at Elevation 804.7 ft in SILT (RESIDUAL)                                  |                 |            |            |                     |       |                                                                                   |    |                         |                       |                 |      |                                                                                     |                                                     |            |
| Boring offset 14' FY                                                                        |                 |            |            |                     |       |                                                                                   |    |                         |                       |                 |      |                                                                                     |                                                     |            |

|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|-------------------------------------------------------------------------------------|----|-------------------------|-----|-----------|-------------|---------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |                                                                                     |    | GEOLOGIST Q. Hill       |     |           |             |                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |                                                                                     |    | GROUND WTR (ft)         |     |           |             |                           |
| BORING NO. Y22600                                                                           |                 |            | STATION 26+00       |       |       | OFFSET 70 ft LT          |                                                                                     |    | ALIGNMENT -Y2-          |     |           | 0 HR. Dry   |                           |
| COLLAR ELEV. 810.1 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,094         |                                                                                     |    | EASTING 1,565,639       |     |           | 24 HR. FIAD |                           |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |                                                                                     |    | HAMMER TYPE Automatic   |     |           |             |                           |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/30/23 |       |       | COMP. DATE 11/30/23      |                                                                                     |    | SURFACE WATER DEPTH N/A |     |           |             |                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |                                                                                     |    |                         |     | SAMP. NO. | LOG         | SOIL AND ROCK DESCRIPTION |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25                                                                                  | 50 | 75                      | 100 |           |             |                           |
| 815                                                                                         |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
| 810                                                                                         |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
| 805                                                                                         | 808.6           | 1.5        |                     | 5     | 4     | 6                        |  |    |                         |     |           |             |                           |
|                                                                                             | 806.6           | 3.5        |                     | 3     | 4     | 5                        |                                                                                     |    |                         |     | M         |             |                           |
|                                                                                             | 804.1           | 6.0        |                     | 2     | 5     | 5                        |                                                                                     |    |                         |     | M         |             |                           |
|                                                                                             | 801.6           | 8.5        |                     | 1     | 2     | 2                        |                                                                                     |    |                         |     | M         |             |                           |
|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
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|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
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|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
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|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
|                                                                                             |                 |            |                     |       |       |                          |                                                                                     |    |                         |     |           |             |                           |
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NCDOT BORE DOUBLE U6187\_BORINGS.GPJ NC\_DOT.GDT 5/3/24

NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

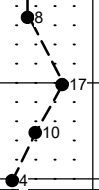
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |             |     |                                                                  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |             |     |                                                                  |
| BORING NO. Y23000_WB GM                                                                     |                 |            | STATION 30+00       |       |       | OFFSET 10 ft LT          |    |    | ALIGNMENT -Y2-          |     |                 | 0 HR. Dry   |     |                                                                  |
| COLLAR ELEV. 801.4 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,170         |    |    | EASTING 1,566,037       |     |                 | 24 HR. FIAD |     |                                                                  |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |             |     |                                                                  |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/28/23 |       |       | COMP. DATE 11/28/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |             |     |                                                                  |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                        |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |             |     |                                                                  |
| 805                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                  |
|                                                                                             | 801.4           | 0.0        |                     |       |       |                          |    |    |                         |     |                 |             |     | 801.4 GROUND SURFACE 0.0                                         |
| 800                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     | RESIDUAL<br>Brown and orange, silty CLAY (A-7-5 (15)), micaceous |
|                                                                                             | 797.9           | 3.5        |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                  |
|                                                                                             | 795.4           | 6.0        |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                  |
| 795                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                  |
|                                                                                             | 792.9           | 8.5        |                     |       |       |                          |    |    |                         |     |                 |             |     | 791.4 10.0                                                       |
| Boring Terminated at Elevation 791.4 ft in CLAY (RESIDUAL)<br><br>Boring offset 13.5' FY    |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                  |



NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                                                     |                                                                                                            |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |             |                                                                                     |                                                                                                            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |             |                                                                                     |                                                                                                            |
| BORING NO. Y23500_WB OGS                                                                    |                 |            | STATION 35+00       |       |       | OFFSET 71 ft LT          |    |    | ALIGNMENT -Y2-          |     |                 | 0 HR. Dry   |                                                                                     |                                                                                                            |
| COLLAR ELEV. 801.4 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,392         |    |    | EASTING 1,566,489       |     |                 | 24 HR. FIAD |                                                                                     |                                                                                                            |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |             |                                                                                     |                                                                                                            |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/27/23 |       |       | COMP. DATE 11/27/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |             |                                                                                     |                                                                                                            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI         | LOG                                                                                 | SOIL AND ROCK DESCRIPTION                                                                                  |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |             |                                                                                     |                                                                                                            |
| 805                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                                                     |                                                                                                            |
|                                                                                             | 801.4           | 0.0        |                     |       |       |                          |    |    |                         |     |                 |             |                                                                                     | 801.4 GROUND SURFACE 0.0                                                                                   |
| 800                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                                                     |                                                                                                            |
|                                                                                             | 797.9           | 3.5        | 4                   | 11    | 9     |                          |    |    |                         |     | S-01            | M           |  | ROADWAY EMBANKMENT<br>Brown and orange, sandy CLAY (A-7-5 (4)), medium plasticity                          |
|                                                                                             | 797.9           | 3.5        | 3                   | 5     | 7     |                          |    |    |                         |     |                 | M           |                                                                                     |                                                                                                            |
| 795                                                                                         | 795.4           | 6.0        | 5                   | 6     | 7     |                          |    |    |                         |     |                 | M           |                                                                                     |                                                                                                            |
|                                                                                             | 792.9           | 8.5        | 3                   | 7     | 9     |                          |    |    |                         |     |                 | M           |                                                                                     |                                                                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                                                     | 791.4 Brown, orange, and red, silty SAND (A-2-4), with clay lenses, trace gravel, and manganese oxides 5.5 |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                                                     | 791.4 Boring Terminated at Elevation 791.4 ft in SAND (ROADWAY EMBANKMENT) 10.0                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |                                                                                     | Boring offset 12.0' FW                                                                                     |

GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |                     |       |       |                                                                                   |    |    |                         |     |                 |             |                                                                                     |                                                            |                |                                                                                                               |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE                                                                      |    |    | GEOLOGIST Q. Hill       |     |                 |             |                                                                                     |                                                            |                |                                                                                                               |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                                                                                   |    |    |                         |     | GROUND WTR (ft) |             |                                                                                     |                                                            |                |                                                                                                               |
| BORING NO. Y24000_EB GM                                                                     |                 |            | STATION 40+00       |       |       | OFFSET 7 ft RT                                                                    |    |    | ALIGNMENT -Y2-          |     |                 | 0 HR. Dry   |                                                                                     |                                                            |                |                                                                                                               |
| COLLAR ELEV. 794.4 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,485                                                                  |    |    | EASTING 1,566,986       |     |                 | 24 HR. FIAD |                                                                                     |                                                            |                |                                                                                                               |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers                                                          |    |    | HAMMER TYPE Automatic   |     |                 |             |                                                                                     |                                                            |                |                                                                                                               |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/29/23 |       |       | COMP. DATE 11/29/23                                                               |    |    | SURFACE WATER DEPTH N/A |     |                 |             |                                                                                     |                                                            |                |                                                                                                               |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT                                                                    |    |    |                         |     | SAMP. NO.       | MOI         | L O G                                                                               | SOIL AND ROCK DESCRIPTION                                  |                |                                                                                                               |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                                                                                 | 25 | 50 | 75                      | 100 |                 |             |                                                                                     | ELEV. (ft)                                                 | DEPTH (ft)     |                                                                                                               |
| 795                                                                                         |                 |            |                     |       |       |                                                                                   |    |    |                         |     |                 |             |                                                                                     |                                                            |                |                                                                                                               |
|                                                                                             | 794.4           | 0.0        | 2                   | 3     | 5     |  |    |    |                         |     |                 | M           |  | 794.4                                                      | GROUND SURFACE | 0.0                                                                                                           |
| 790                                                                                         | 790.9           | 3.5        | 5                   | 7     | 10    |                                                                                   |    |    |                         |     |                 | SS-1015     |                                                                                     | 26%                                                        |                | RESIDUAL<br>Orange and brown, silty CLAY (A-7-5 (25)),<br>with trace rock fragments, low to medium plasticity |
|                                                                                             | 788.4           | 6.0        | 3                   | 4     | 6     |                                                                                   |    |    |                         |     |                 | M           |                                                                                     |                                                            | 786.4          | 8.0                                                                                                           |
| 785                                                                                         | 785.9           | 8.5        | 1                   | 2     | 2     |                                                                                   |    |    |                         |     |                 | M           |                                                                                     |                                                            | 784.4          | 10.0                                                                                                          |
|                                                                                             |                 |            |                     |       |       |                                                                                   |    |    |                         |     |                 |             |                                                                                     | Orange, SILT (A-5), micaceous, low to medium plasticity    |                |                                                                                                               |
|                                                                                             |                 |            |                     |       |       |                                                                                   |    |    |                         |     |                 |             |                                                                                     | Boring Terminated at Elevation 784.4 ft in SILT (RESIDUAL) |                |                                                                                                               |
|                                                                                             |                 |            |                     |       |       |                                                                                   |    |    |                         |     |                 |             |                                                                                     | Boring offset 13.0' FY                                     |                |                                                                                                               |

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |       |                                                                                                      |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----------------|-------------|-----|-------|------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                 |             |     |       |                                                                                                      |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         | GROUND WTR (ft) |             |     |       |                                                                                                      |
| BORING NO. Y24000_EB ISS                                                                    |                 |            | STATION 40+00       |       |       | OFFSET 15 ft RT          |    |    | ALIGNMENT -Y2-          |                 | 0 HR. Dry   |     |       |                                                                                                      |
| COLLAR ELEV. 791.5 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,477         |    |    | EASTING 1,566,989       |                 | 24 HR. FIAD |     |       |                                                                                                      |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                 |             |     |       |                                                                                                      |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/15/23 |       |       | COMP. DATE 12/15/23      |    |    | SURFACE WATER DEPTH N/A |                 |             |     |       |                                                                                                      |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                 | SAMP. NO.   | MOI | L O G | SOIL AND ROCK DESCRIPTION                                                                            |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100             |             |     |       |                                                                                                      |
| 795                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |       |                                                                                                      |
| 790                                                                                         | 790.1           | 1.4        |                     |       |       |                          |    |    |                         |                 |             |     |       | 791.5 GROUND SURFACE 0.0                                                                             |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |       | 790.3 ROADWAY EMBANKMENT 1.3                                                                         |
|                                                                                             | 788.0           | 3.5        | 9                   | 7     | 6     |                          |    |    |                         |                 | SS-523      | 16% |       | 790.1 PAVEMENT 1.4                                                                                   |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |       | AGGREGATE BASE COURSE                                                                                |
| 785                                                                                         | 785.5           | 6.0        | 6                   | 6     | 6     |                          |    |    |                         |                 |             | M   |       | 785.5 RESIDUAL 6.0                                                                                   |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             | M   |       | Red and brown, silty CLAY (A-7-6 (16)), micaceous, medium plasticity                                 |
|                                                                                             | 783.0           | 8.5        | 4                   | 5     | 6     |                          |    |    |                         |                 |             | M   |       | 785.5 Orange, red, and brown, clayey SILT (A-5), with manganese oxides, low to medium plasticity 6.0 |
|                                                                                             |                 |            | 3                   | 3     | 4     |                          |    |    |                         |                 |             | M   |       | 781.5 Boring Terminated at Elevation 781.5 ft in SILT (RESIDUAL) 10.0                                |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |       | Boring offset 6.5' FY                                                                                |



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|                                                                                             |                 |            |                     |       |       |                                     |                                   |                                   |                                   |                                   |                 |             |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
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| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE                        |                                   |                                   | GEOLOGIST Q. Hill                 |                                   |                 |             |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                                     |                                   |                                   |                                   |                                   | GROUND WTR (ft) |             |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| BORING NO. Y24500_EB OGS                                                                    |                 |            | STATION 45+00       |       |       | OFFSET 70 ft RT                     |                                   |                                   | ALIGNMENT -Y2-                    |                                   |                 | 0 HR. Dry   |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| COLLAR ELEV. 787.4 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,590                    |                                   |                                   | EASTING 1,567,479                 |                                   |                 | 24 HR. FIAD |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers            |                                   |                                   | HAMMER TYPE Automatic             |                                   |                 |             |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/28/23 |       |       | COMP. DATE 11/29/23                 |                                   |                                   | SURFACE WATER DEPTH N/A           |                                   |                 |             |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT                      |                                   |                                   |                                   |                                   | SAMP. NO.       | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                                   | 25                                | 50                                | 75                                | 100                               |                 |             |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 790                                                                                         |                 |            |                     |       |       |                                     |                                   |                                   |                                   |                                   |                 |             |     | <div><div></div><div>787.4</div><div>GROUND SURFACE</div><div>0.0</div></div> <div><div></div><div>787.4</div><div>ROADWAY EMBANKMENT</div><div>Orange, sandy and silty CLAY (A-7-6 (20), A-7-6 (4)), micaceous, low to high plasticity</div></div> <div><div></div><div>777.4</div><div>Boring Terminated at Elevation 777.4 ft in CLAY (ROADWAY EMBANKMENT)</div><div>Boring offset 14.0' FW</div></div> |
|                                                                                             | 787.4           | 0.0        | 10                  | 2     | 2     | <div><div></div><div>4</div></div>  | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> | SS-1010         | 32%         |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 785                                                                                         | 783.9           | 3.5        | 5                   | 5     | 6     | <div><div></div><div>11</div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> | SS-1011         | 21%         |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 780                                                                                         | 781.4           | 6.0        | 3                   | 3     | 5     | <div><div></div><div>8</div></div>  | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> |                 | M           |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                             | 778.9           | 8.5        | 1                   | 2     | 2     | <div><div></div><div>4</div></div>  | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> | <div><div></div><div></div></div> |                 | M           |     |                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                             |                 |            |                     |       |       |                                     |                                   |                                   |                                   |                                   |                 |             |     |                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                                                                        |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |             |     |                                                                                                                                                        |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |             |     |                                                                                                                                                        |
| BORING NO. Y24800                                                                           |                 |            | STATION 48+00       |       |       | OFFSET 75 ft LT          |    |    | ALIGNMENT -Y2-          |     |           | 0 HR. 20.0  |     |                                                                                                                                                        |
| COLLAR ELEV. 773.7 ft                                                                       |                 |            | TOTAL DEPTH 25.0 ft |       |       | NORTHING 822,826         |    |    | EASTING 1,567,714       |     |           | 24 HR. FIAD |     |                                                                                                                                                        |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |             |     |                                                                                                                                                        |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/29/23 |       |       | COMP. DATE 11/29/23      |    |    | SURFACE WATER DEPTH N/A |     |           |             |     |                                                                                                                                                        |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                              |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |             |     |                                                                                                                                                        |
| 775                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                                                                        |
|                                                                                             | 773.7           | 0.0        | 5                   | 5     | 3     | 8                        |    |    |                         |     |           | M           |     | 773.7 GROUND SURFACE 0.0<br>773.0 8 inches of Topsoil 0.7                                                                                              |
| 770                                                                                         | 770.2           | 3.5        | 2                   | 2     | 3     | 5                        |    |    |                         |     |           | M           |     | RESIDUAL<br>Orange, white, and tan, sandy and clayey SILT (A-4), contains manganese oxides, micaceous, low to medium plasticity                        |
|                                                                                             | 767.7           | 6.0        | 1                   | 1     | 1     | 2                        |    |    |                         |     |           | M           |     |                                                                                                                                                        |
| 765                                                                                         | 765.2           | 8.5        | 1                   | 1     | 1     | 2                        |    |    |                         |     |           | M           |     |                                                                                                                                                        |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                                                                        |
| 760                                                                                         | 760.2           | 13.5       | 1                   | 1     | 2     | 3                        |    |    |                         |     |           | M           |     |                                                                                                                                                        |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                                                                        |
| 755                                                                                         | 755.2           | 18.5       | 2                   | 2     | 4     | 6                        |    |    |                         |     |           |             |     |                                                                                                                                                        |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                                                                                                        |
| 750                                                                                         | 750.2           | 23.5       | 3                   | 3     | 8     | 11                       |    |    |                         |     |           | W           |     | 751.7 22.0<br>Orange and tan silty SAND (A-2-4), contains manganese oxides<br>748.7 25.0<br>Boring Terminated at Elevation 748.7 ft in SAND (RESIDUAL) |

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|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|-------------|-------|--------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |             |       |                                                                                                  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |             |       |                                                                                                  |
| BORING NO. Y25000_EB ISS                                                                    |                 |            | STATION 50+00       |       |       | OFFSET 35 ft RT          |    |    | ALIGNMENT -Y2-          |     |           | 0 HR. Dry   |       |                                                                                                  |
| COLLAR ELEV. 784.5 ft                                                                       |                 |            | TOTAL DEPTH 10.0 ft |       |       | NORTHING 822,807         |    |    | EASTING 1,567,933       |     |           | 24 HR. FIAD |       |                                                                                                  |
| DRILL RIG/HAMMER EFF./DATE CG24116 CME 550X 74% 04/11/2022                                  |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |             |       |                                                                                                  |
| DRILLER D. Demby                                                                            |                 |            | START DATE 12/15/23 |       |       | COMP. DATE 12/15/23      |    |    | SURFACE WATER DEPTH N/A |     |           |             |       |                                                                                                  |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI         | L O G | SOIL AND ROCK DESCRIPTION                                                                        |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |             |       |                                                                                                  |
| 785                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |             |       |                                                                                                  |
|                                                                                             | 782.5           | 2.0        | 4                   | 5     | 7     |                          |    |    |                         |     |           |             |       | 784.5 GROUND SURFACE 0.0                                                                         |
|                                                                                             | 781.0           | 3.5        | 4                   | 4     | 5     |                          |    |    |                         |     |           |             |       | 783.0 ROADWAY EMBANKMENT 1.5                                                                     |
| 780                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |             |       | 782.5 PAVEMENT 2.0                                                                               |
|                                                                                             | 778.5           | 6.0        | 3                   | 6     | 8     |                          |    |    |                         |     |           |             |       | AGGREGATE BASE COURSE                                                                            |
|                                                                                             | 776.0           | 8.5        | 3                   | 5     | 7     |                          |    |    |                         |     |           |             |       | RESIDUAL                                                                                         |
| 775                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |             |       | Orange and brown, silty CLAY (A-7-5 (13)), with trace sand, micaceous, medium to high plasticity |
| Boring Terminated at Elevation 774.5 ft in CLAY (RESIDUAL)                                  |                 |            |                     |       |       |                          |    |    |                         |     |           |             |       |                                                                                                  |
| Boring offset 6.5' FY                                                                       |                 |            |                     |       |       |                          |    |    |                         |     |           |             |       |                                                                                                  |

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|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----------------|-------------|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |                 |             |     |     |                                                                                                                                                                  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         | GROUND WTR (ft) |             |     |     |                                                                                                                                                                  |
| BORING NO. Y25200                                                                           |                 |            | STATION 52+00       |       |       | OFFSET 65 ft LT          |    |    | ALIGNMENT -Y2-          |                 | 0 HR. 17.5  |     |     |                                                                                                                                                                  |
| COLLAR ELEV. 777.0 ft                                                                       |                 |            | TOTAL DEPTH 20.0 ft |       |       | NORTHING 822,949         |    |    | EASTING 1,568,095       |                 | 24 HR. FIAD |     |     |                                                                                                                                                                  |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |                 |             |     |     |                                                                                                                                                                  |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/29/23 |       |       | COMP. DATE 11/29/23      |    |    | SURFACE WATER DEPTH N/A |                 |             |     |     |                                                                                                                                                                  |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |                 | SAMP. NO.   | MOI | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                                        |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100             |             |     |     |                                                                                                                                                                  |
| 780                                                                                         |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     |                                                                                                                                                                  |
| 775                                                                                         | 777.0           | 0.0        | 4                   | 6     | 3     | 9                        |    |    |                         |                 |             | M   |     | 777.0 GROUND SURFACE 0.0<br>776.1 TOPSOIL 0.9                                                                                                                    |
|                                                                                             | 773.5           | 3.5        | 2                   | 2     | 5     | 7                        |    |    |                         |                 |             | M   |     | RESIDUAL<br>Brown and orange, sandy SILT (A-4), micaceous, low to medium plasticity<br>Orange and brown, CLAY and silty CLAY (A-7), micaceous, medium plasticity |
| 770                                                                                         | 771.0           | 6.0        | 4                   | 5     | 5     | 10                       |    |    |                         |                 |             | M   |     |                                                                                                                                                                  |
|                                                                                             | 768.5           | 8.5        | 1                   | 1     | 3     | 4                        |    |    |                         |                 |             | M   |     |                                                                                                                                                                  |
| 765                                                                                         | 763.5           | 13.5       | WOH                 | WOH   | 2     | 2                        |    |    |                         |                 |             | M   |     | 763.0 14.0<br>Gray and orange, sandy CLAY (A-6), low to medium plasticity                                                                                        |
| 760                                                                                         | 758.5           | 18.5       | 1                   | 1     | 1     | 2                        |    |    |                         |                 |             | W   |     | 757.0 20.0<br>Boring Terminated at Elevation 757.0 ft in CLAY (RESIDUAL)                                                                                         |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |                 |             |     |     |                                                                                                                                                                  |

NCDOT BORE DOUBLE U6187 BORINGS.GPJ NC DOT GDT 5/3/24

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NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                                                                              |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------------|-------------|-----|------------------------------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |                 |             |     |                                                                                                                              |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    |                         |     | GROUND WTR (ft) |             |     |                                                                                                                              |
| BORING NO. Y26200                                                                           |                 |            | STATION 62+00       |       |       | OFFSET 30 ft RT          |    |    | ALIGNMENT -Y2-          |     |                 | 0 HR. Dry   |     |                                                                                                                              |
| COLLAR ELEV. 770.5 ft                                                                       |                 |            | TOTAL DEPTH 15.0 ft |       |       | NORTHING 823,135         |    |    | EASTING 1,569,086       |     |                 | 24 HR. FIAD |     |                                                                                                                              |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |                 |             |     |                                                                                                                              |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/29/23 |       |       | COMP. DATE 11/29/23      |    |    | SURFACE WATER DEPTH N/A |     |                 |             |     |                                                                                                                              |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO.       | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                                                                    |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |                 |             |     |                                                                                                                              |
| 775                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     |                                                                                                                              |
| 770                                                                                         | 770.5           | 0.0        |                     |       |       |                          |    |    |                         |     |                 |             |     | 770.5 GROUND SURFACE 0.0                                                                                                     |
| 765                                                                                         | 767.0           | 3.5        | 8                   | 2     | 3     | 5                        | .  | .  | .                       | .   | .               | .           | .   | 767.5 ROADWAY EMBANKMENT 3.0                                                                                                 |
|                                                                                             | 764.5           | 6.0        | 3                   | 4     | 4     | 8                        | .  | .  | .                       | .   | .               | .           | .   | 767.5 Brown, silty SAND (A-2-4), with trace gravel                                                                           |
|                                                                                             | 762.0           | 8.5        | 3                   | 3     | 3     | 6                        | .  | .  | .                       | .   | .               | .           | .   | 767.5 RESIDUAL 3.0                                                                                                           |
| 760                                                                                         | 762.0           | 8.5        | 1                   | 1     | 3     | 4                        | .  | .  | .                       | .   | .               | .           | .   | 764.5 Orange SILT (A-4), contains manganese oxides, low to medium plasticity 6.0                                             |
|                                                                                             | 757.0           | 13.5       | 2                   | 5     | 13    | 18                       | .  | .  | .                       | .   | .               | .           | .   | 764.5 Orange, clayey SILT (A-5), micaceous, medium plasticity 6.0                                                            |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     | 762.0 Orange and black, sandy SILT and clayey SILT (A-4), contains manganese oxides, micaceous, low to medium plasticity 8.5 |
|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |                 |             |     | 755.5 Boring Terminated at Elevation 755.5 ft in SILT (RESIDUAL) 15.0                                                        |





GEOTECHNICAL BORING REPORT  
BORE LOG

|                                                                                             |                 |            |            |                     |       |                         |    |                         |                 |             |     |       |                           |                                                                                                           |
|---------------------------------------------------------------------------------------------|-----------------|------------|------------|---------------------|-------|-------------------------|----|-------------------------|-----------------|-------------|-----|-------|---------------------------|-----------------------------------------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       | COUNTY DAVIE            |    | GEOLOGIST Q. Hill       |                 |             |     |       |                           |                                                                                                           |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                         |    | GROUND WTR (ft)         |                 |             |     |       |                           |                                                                                                           |
| BORING NO. Y31010                                                                           |                 |            |            | STATION 10+10       |       | OFFSET 10 ft LT         |    | ALIGNMENT -Y3-          |                 | 0 HR. Dry   |     |       |                           |                                                                                                           |
| COLLAR ELEV. 854.3 ft                                                                       |                 |            |            | TOTAL DEPTH 6.0 ft  |       | NORTHING 818,544        |    | EASTING 1,566,964       |                 | 24 HR. FIAD |     |       |                           |                                                                                                           |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                 |            |            |                     |       | DRILL METHOD Hand Auger |    |                         | HAMMER TYPE N/A |             |     |       |                           |                                                                                                           |
| DRILLER J. Crenshaw                                                                         |                 |            |            | START DATE 12/20/23 |       | COMP. DATE 12/20/23     |    | SURFACE WATER DEPTH N/A |                 |             |     |       |                           |                                                                                                           |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT          |    |                         |                 | SAMP. NO.   | MOI | L O G | SOIL AND ROCK DESCRIPTION |                                                                                                           |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0                       | 25 | 50                      | 75              | 100         |     |       |                           |                                                                                                           |
| 855                                                                                         |                 |            |            |                     |       |                         |    |                         |                 |             |     |       |                           |                                                                                                           |
| 850                                                                                         |                 |            |            |                     |       |                         |    |                         |                 |             | M   |       |                           | 854.3 GROUND SURFACE 0.0                                                                                  |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |                 |             |     |       |                           | RESIDUAL                                                                                                  |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |                 |             |     |       |                           | Medium stiff, orange and brown, CLAY (A-7), with trace sand and root fragments, medium to high plasticity |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |                 |             | M   |       |                           | 850.3 4.0                                                                                                 |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |                 |             |     |       |                           | 848.3 Medium stiff, orange and brown, clayey SILT (A-5), medium plasticity 6.0                            |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |                 |             |     |       |                           | Boring Terminated at Elevation 848.3 ft in SILT (RESIDUAL)                                                |
|                                                                                             |                 |            |            |                     |       |                         |    |                         |                 |             |     |       |                           | Kessler DCP Test performed to estimate soil strength                                                      |

NCDOT BORE DOUBLE U6187\_BORINGS.GPJ NC\_DOT.GDT 5/3/24

|                                                                                             |                 |            |            |                     |       |                          |    |                         |                       |             |       |       |                           |                                                                                                      |
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| WBS 48647.1.1                                                                               |                 |            |            | TIP U-6187          |       | COUNTY DAVIE             |    | GEOLOGIST Q. Hill       |                       |             |       |       |                           |                                                                                                      |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |            |                     |       |                          |    | GROUND WTR (ft)         |                       |             |       |       |                           |                                                                                                      |
| BORING NO. Y41150                                                                           |                 |            |            | STATION 11+50       |       | OFFSET 20 ft LT          |    | ALIGNMENT -Y4-          |                       | 0 HR. Dry   |       |       |                           |                                                                                                      |
| COLLAR ELEV. 825.3 ft                                                                       |                 |            |            | TOTAL DEPTH 20.0 ft |       | NORTHING 817,806         |    | EASTING 1,567,755       |                       | 24 HR. 15.9 |       |       |                           |                                                                                                      |
| DRILL RIG/HAMMER EFF./DATE CG23639 CME 550X 90% 03/15/2023                                  |                 |            |            |                     |       | DRILL METHOD H.S. Augers |    |                         | HAMMER TYPE Automatic |             |       |       |                           |                                                                                                      |
| DRILLER J. Kiker                                                                            |                 |            |            | START DATE 11/14/23 |       | COMP. DATE 11/15/23      |    | SURFACE WATER DEPTH N/A |                       |             |       |       |                           |                                                                                                      |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT |                     |       | BLOWS PER FOOT           |    |                         |                       | SAMP. NO.   | MOI   | L O G | SOIL AND ROCK DESCRIPTION |                                                                                                      |
|                                                                                             |                 |            | 0.5ft      | 0.5ft               | 0.5ft | 0                        | 25 | 50                      | 75                    | 100         |       |       |                           |                                                                                                      |
| 830                                                                                         |                 |            |            |                     |       |                          |    |                         |                       |             |       |       |                           |                                                                                                      |
| 825                                                                                         | 825.3           | 0.0        | 5          | 9                   | 7     |                          |    |                         |                       |             | SS-30 | 22%   |                           | 825.3 GROUND SURFACE 0.0                                                                             |
|                                                                                             | 821.8           | 3.5        | 10         | 22                  | 23    |                          |    |                         |                       |             |       |       |                           | RESIDUAL                                                                                             |
| 820                                                                                         | 818.8           | 6.5        | 4          | 8                   | 14    |                          |    |                         |                       |             |       |       |                           | Orange, silty CLAY (A-7-6 (19)), with little sand and rock fragments                                 |
|                                                                                             | 816.8           | 8.5        | 9          | 11                  | 15    |                          |    |                         |                       |             |       |       |                           | 819.3 6.0                                                                                            |
| 815                                                                                         |                 |            |            |                     |       |                          |    |                         |                       |             |       |       |                           | Orange and tan, sandy SILT (A-4), with trace rock fragments, micaceous                               |
|                                                                                             | 811.8           | 13.5       | 4          | 11                  | 20    |                          |    |                         |                       |             |       |       |                           | 813.3 12.0                                                                                           |
| 810                                                                                         |                 |            |            |                     |       |                          |    |                         |                       |             |       |       |                           | Gray, brown, black, and tan, silty SAND (A-2-4), with some clay and little rock fragments, micaceous |
|                                                                                             | 806.8           | 18.5       | 23         | 34                  | 12    |                          |    |                         |                       |             |       |       |                           | 805.3 20.0                                                                                           |
|                                                                                             |                 |            |            |                     |       |                          |    |                         |                       |             | Sat.  |       |                           | Boring Terminated at Elevation 805.3 ft in SAND (RESIDUAL)                                           |



NC DOT BORE DOUBLE U6187 BORINGS.GPJ NC\_DOT\_GDT 5/3/24

|                                                                                             |                       |               |            |                    |       |                     |    |                  |    |                         |              |                   |                                                                                     |                           |                                                                                                                                                                                                                                                     |             |  |
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| WBS 48647.1.1                                                                               |                       |               |            |                    |       | TIP U-6187          |    |                  |    | COUNTY DAVIE            |              |                   |                                                                                     | GEOLOGIST Q. Hill         |                                                                                                                                                                                                                                                     |             |  |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |            |                    |       |                     |    |                  |    |                         |              |                   |                                                                                     | GROUND WTR (ft)           |                                                                                                                                                                                                                                                     |             |  |
| BORING NO. Y41520                                                                           |                       |               |            | STATION 15+20      |       |                     |    | OFFSET 15 ft LT  |    |                         |              | ALIGNMENT -Y4-    |                                                                                     |                           |                                                                                                                                                                                                                                                     | 0 HR. Dry   |  |
| COLLAR ELEV. 826.3 ft                                                                       |                       |               |            | TOTAL DEPTH 6.0 ft |       |                     |    | NORTHING 818,159 |    |                         |              | EASTING 1,567,800 |                                                                                     |                           |                                                                                                                                                                                                                                                     | 24 HR. FIAD |  |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                       |               |            |                    |       |                     |    |                  |    | DRILL METHOD Hand Auger |              |                   |                                                                                     | HAMMER TYPE N/A           |                                                                                                                                                                                                                                                     |             |  |
| DRILLER Q. Hill                                                                             |                       |               |            |                    |       | START DATE 01/04/24 |    |                  |    | COMP. DATE 01/04/24     |              |                   |                                                                                     | SURFACE WATER DEPTH N/A   |                                                                                                                                                                                                                                                     |             |  |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT |                    |       | BLOWS PER FOOT      |    |                  |    |                         | SAMP.<br>NO. | MOI               | LOG                                                                                 | SOIL AND ROCK DESCRIPTION |                                                                                                                                                                                                                                                     |             |  |
|                                                                                             |                       |               | 0.5ft      | 0.5ft              | 0.5ft | 0                   | 25 | 50               | 75 | 100                     |              |                   |                                                                                     |                           |                                                                                                                                                                                                                                                     |             |  |
| 830                                                                                         |                       |               |            |                    |       |                     |    |                  |    |                         |              |                   |                                                                                     |                           |                                                                                                                                                                                                                                                     |             |  |
|                                                                                             |                       |               |            |                    |       |                     |    |                  |    |                         |              |                   |                                                                                     |                           |                                                                                                                                                                                                                                                     |             |  |
| 825                                                                                         |                       |               |            |                    |       |                     |    |                  |    |                         |              | M                 |  | 826.3                     | GROUND SURFACE 0.0                                                                                                                                                                                                                                  |             |  |
|                                                                                             |                       |               |            |                    |       |                     |    |                  |    |                         |              |                   |  | 823.1                     | ROADWAY EMBANKMENT<br>Medium stiff, brown and orange, silty CLAY (A-7-6), with roots and trace rock fragments, micaceous, moist 3.2                                                                                                                 |             |  |
|                                                                                             |                       |               |            |                    |       |                     |    |                  |    |                         |              | M                 |  | 820.3                     | RESIDUAL<br>Medium stiff, brown, red, and orange, silty CLAY (A-7-6), with trace rock fragments, micaceous, moist 6.0<br><br>Boring Terminated at Elevation 820.3 ft in CLAY (RESIDUAL)<br><br>Kessler DCP Test performed to estimate soil strength |             |  |

GEOTECHNICAL BORING REPORT  
BORE LOG

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| WBS 48647.1.1                                                                               |                       |               |                     |       | TIP U-6187 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Hill       |                 |              |                               |             |                           |            |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                       |               |                     |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |    |                         | GROUND WTR (ft) |              |                               |             |                           |            |
| BORING NO. Y42100                                                                           |                       |               | STATION 21+00       |       |            | OFFSET 25 ft RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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Dry                     |             |                           |            |
| COLLAR ELEV. 827.7 ft                                                                       |                       |               | TOTAL DEPTH 8.5 ft  |       |            | NORTHING 818,737                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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FIAD                   |             |                           |            |
| DRILL RIG/HAMMER EFF./DATE N/A                                                              |                       |               |                     |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| DRILLER J. Crenshaw                                                                         |                       |               | START DATE 12/20/23 |       |            | COMP. DATE 12/20/23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |    | SURFACE WATER DEPTH N/A |                 |              |                               |             |                           |            |
| ELEV<br>(ft)                                                                                | DRIVE<br>ELEV<br>(ft) | DEPTH<br>(ft) | BLOW COUNT          |       |            | BLOWS PER FOOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|                                                                                             |                       |               | 0.5ft               | 0.5ft | 0.5ft      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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(ft)                | DEPTH (ft) |
| 830                                                                                         |                       |               |                     |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 825                                                                                         |                       |               |                     |       |            | 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|                                                                                             |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                          |
|---------------------------------------------------------------------------------------------|-----------------|------------|---------------------|-------|-------|--------------------------|----|----|-------------------------|-----|-----------|-------------|-----|--------------------------------------------------------------------------|
| WBS 48647.1.1                                                                               |                 |            | TIP U-6187          |       |       | COUNTY DAVIE             |    |    | GEOLOGIST Q. Hill       |     |           |             |     |                                                                          |
| SITE DESCRIPTION 2- Lane Extension of SR 1630 (Baltimore Road) From South of US 158 to I-40 |                 |            |                     |       |       |                          |    |    | GROUND WTR (ft)         |     |           |             |     |                                                                          |
| BORING NO. Y42600                                                                           |                 |            | STATION 46+00       |       |       | OFFSET 70 ft LT          |    |    | ALIGNMENT -Y4-          |     |           | 0 HR. 21.5  |     |                                                                          |
| COLLAR ELEV. 786.6 ft                                                                       |                 |            | TOTAL DEPTH 25.0 ft |       |       | NORTHING 822,755         |    |    | EASTING 1,567,527       |     |           | 24 HR. FIAD |     |                                                                          |
| DRILL RIG/HAMMER EFF./DATE CG29022 Mobile B-29 86% 04/11/2022                               |                 |            |                     |       |       | DRILL METHOD H.S. Augers |    |    | HAMMER TYPE Automatic   |     |           |             |     |                                                                          |
| DRILLER M. Brewer                                                                           |                 |            | START DATE 11/29/23 |       |       | COMP. DATE 11/30/23      |    |    | SURFACE WATER DEPTH N/A |     |           |             |     |                                                                          |
| ELEV (ft)                                                                                   | DRIVE ELEV (ft) | DEPTH (ft) | BLOW COUNT          |       |       | BLOWS PER FOOT           |    |    |                         |     | SAMP. NO. | MOI         | LOG | SOIL AND ROCK DESCRIPTION                                                |
|                                                                                             |                 |            | 0.5ft               | 0.5ft | 0.5ft | 0                        | 25 | 50 | 75                      | 100 |           |             |     |                                                                          |
| 790                                                                                         |                 |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                          |
| 785                                                                                         | 786.6           | 0.0        | 3                   | 8     | 5     |                          |    |    |                         |     |           |             |     | 786.6 GROUND SURFACE 0.0                                                 |
| 780                                                                                         | 783.1           | 3.5        | 1                   | 2     | 2     |                          |    |    |                         |     | S-09      | M           |     | 785.7 10" TOPSOIL 0.9                                                    |
|                                                                                             | 780.6           | 6.0        | 1                   | 1     | 2     |                          |    |    |                         |     |           | M           |     | RESIDUAL<br>Orange, brown, white, and tan, silty SAND (A-2-4), micaceous |
|                                                                                             | 778.1           | 8.5        | 1                   | 1     | 2     |                          |    |    |                         |     |           | M           |     |                                                                          |
| 775                                                                                         | 773.1           | 13.5       | 3                   | 2     | 3     |                          |    |    |                         |     |           | M           |     |                                                                          |
|                                                                                             | 770             |            |                     |       |       |                          |    |    |                         |     |           |             |     |                                                                          |
| 765                                                                                         | 768.1           | 18.5       | WOH                 | 1     | 2     |                          |    |    |                         |     |           | M           |     | 769.6 Orange, SILT (A-4), micaceous, low to medium plasticity 17.0       |
|                                                                                             | 763.1           | 23.5       | WOH                 | 1     | 2     |                          |    |    |                         |     |           | M           |     | 761.6 Boring Terminated at Elevation 761.6 ft in SILT (RESIDUAL) 25.0    |

LABORATORY TESTING RESULTS

- L -

| SOIL TEST RESULTS |         |         |                |               |      |      |             |        |       |        |                    |    |     |            |           |
|-------------------|---------|---------|----------------|---------------|------|------|-------------|--------|-------|--------|--------------------|----|-----|------------|-----------|
| SAMPLE NO.        | OFFSET  | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT |        |       |        | % PASSING (SIEVES) |    |     | % MOISTURE | % ORGANIC |
|                   |         |         |                |               |      |      | C.SAND      | F.SAND | SILT  | CLAY   | 10                 | 40 | 200 |            |           |
| SS- 37            | 0' CL   | 18+00   | 3. 7- 5. 2     | A- 7- 5( 13)  | 54   | 20   | 15. 5       | 23. 3  | 18. 9 | 42. 3  | 99. 5              | 92 | 66  | 13         | -         |
| SS- 25            | 0' CL   | 20+50   | 13. 5- 15      | A- 5( 0)      | 43   | 4    | 22. 6       | 49     | 16. 6 | 11. 8  | 99. 7              | 91 | 36  | 40         | -         |
| SS- 15            | 0' CL   | 22+50   | 3. 5- 5. 0     | A- 7- 5( 4 1) | 73   | 43   | 5           | 12. 9  | 16. 1 | 65. 9  | 100                | 98 | 85  | 29         | -         |
| SS- 6             | 0' CL   | 26+50   | 3. 4- 4. 9     | A- 7- 5( 23)  | 7 1  | 21   | 4. 4        | 22. 1  | 23. 5 | 50     | 99. 9              | 98 | 78  | 37         | -         |
| SS- 1             | 0' CL   | 28+50   | 0. 0- 1. 5     | A- 4( 3)      | 36   | 10   | 17. 2       | 35. 4  | 25. 1 | 22. 3  | 94. 8              | 84 | 50  | 18         | -         |
| SS- 49            | 0' CL   | 33+00   | 3. 5- 5. 0     | A- 7- 5( 52)  | 87   | 47   | 1. 9        | 9. 5   | 17. 1 | 7 1. 5 | 99. 9              | 99 | 91  | 42         | -         |
| SS- 55            | 0' CL   | 35+00   | 6. 5- 8. 0     | A- 7- 5( 5)   | 50   | 11   | 20. 9       | 32. 5  | 18. 2 | 28. 4  | 100                | 89 | 53  | 35         | -         |
| SS- 57            | 0' CL   | 37+00   | 0. 0- 1. 5     | A- 7- 6( 11)  | 43   | 19   | 12. 5       | 25. 7  | 18. 6 | 43. 2  | 98. 8              | 92 | 65  | 19         | -         |
| SS- 62            | 0' CL   | 39+00   | 0. 0- 1. 5     | A- 7- 6( 18)  | 52   | 23   | 12. 7       | 15. 9  | 19. 7 | 51. 7  | 98. 6              | 92 | 73  | 29         | 8. 6      |
| SS- 7 1           | 0' CL   | 43+00   | 3. 5- 5. 0     | A- 7- 5( 25)  | 66   | 22   | 7           | 10. 5  | 10. 7 | 7 1. 8 | 99. 9              | 96 | 85  | 24         | -         |
| SS- 82            | 30' RT  | 47+00   | 8. 5- 10. 0    | A- 5( 6)      | 50   | 8    | 10. 9       | 37. 3  | 20. 3 | 31. 5  | 100                | 96 | 61  | 22         | -         |
| SS- 86            | 30' LT  | 49+00   | 3. 5- 5. 0     | A- 7- 5( 29)  | 68   | 29   | 4. 9        | 16. 6  | 23. 2 | 55. 3  | 100                | 98 | 83  | 27         | -         |
| SS- 100           | 30' RT  | 51+00   | 8. 5- 10. 0    | A- 5( 2)      | 42   | 6    | 19. 6       | 39. 6  | 22. 1 | 18. 7  | 100                | 90 | 48  | 30         | -         |
| SS- 109           | 30' LT  | 53+00   | 18. 5- 20. 0   | A- 5( 3)      | 51   | 4    | 12. 1       | 42. 4  | 28. 3 | 17. 2  | 100                | 94 | 56  | 24         | -         |
| SS- 112           | 30' RT  | 55+00   | 3. 5- 5. 0     | A- 7- 5( 10)  | 50   | 13   | 13. 4       | 26. 2  | 26. 4 | 34     | 99. 8              | 94 | 67  | 22         | -         |
| SS- 116           | 30' RT  | 55+00   | 18. 5- 20. 0   | A- 4( 0)      | 36   | 3    | 27. 7       | 34. 4  | 27    | 10. 9  | 100                | 83 | 45  | 21         | -         |
| SS- 125           | 30' LT  | 57+00   | 18. 5- 20. 0   | A- 4( 0)      | NP   | NP   | 29. 1       | 39. 6  | 22. 5 | 8. 8   | 98. 1              | 84 | 38  | 29         | -         |
| SS- 197           | 0' CL   | 58+50   | 13. 5- 15. 0   | A- 4( 0)      | 32   | 3    | 46. 5       | 20. 9  | 19    | 13. 6  | 90. 6              | 57 | 34  | -          | -         |
| SS- 130           | 0' CL   | 59+00   | 6. 5- 8. 0     | A- 7- 5( 8)   | 56   | 11   | 6. 4        | 44. 1  | 30. 6 | 19     | 100                | 98 | 60  | 40         | -         |
| SS- 203           | 0' CL   | 59+50   | 8. 5- 10. 0    | A- 5( 4)      | 55   | 9    | 22. 4       | 37. 1  | 24. 2 | 16. 3  | 95. 4              | 82 | 47  | 26         | -         |
| SS- 205           | 0' CL   | 59+50   | 18. 5- 20. 0   | A- 4( 1)      | 38   | 4    | 35. 1       | 20. 3  | 30. 8 | 13. 8  | 95                 | 69 | 48  | 57         | -         |
| SS- 133           | 40' LT  | 61+00   | 0. 0- 1. 5     | A- 7- 5( 14)  | 49   | 19   | 14. 9       | 17. 5  | 23. 5 | 44. 2  | 97. 6              | 88 | 69  | 25         | -         |
| SS- 145           | 30' RT  | 63+00   | 0. 0- 1. 5     | A- 7- 6( 16)  | 53   | 26   | 19. 1       | 18. 1  | 19. 9 | 42. 9  | 90. 3              | 78 | 60  | 24         | -         |
| SS- 149           | 30' RT  | 63+00   | 13. 5- 15. 0   | A- 7- 5( 22)  | 56   | 18   | 2. 3        | 9. 3   | 48. 1 | 40. 3  | 99. 9              | 99 | 91  | 40         | -         |
| SS- 151           | 30' RT  | 63+00   | 23. 5- 25. 0   | A- 4( 0)      | NP   | NP   | 23. 8       | 30. 4  | 31. 5 | 14. 4  | 94. 9              | 80 | 50  | 37         | -         |
| SS- 163           | 10' LT  | 65+00   | 43. 5- 45. 0   | A- 4( 0)      | 31   | 3    | 29. 7       | 38. 6  | 22. 7 | 9. 1   | 99                 | 87 | 39  | 23         | -         |
| SS- 165           | 120' LT | 66+00   | 0. 0- 1. 5     | A- 7- 6( 9)   | 45   | 17   | 18. 1       | 25. 4  | 23. 9 | 32. 6  | 97. 6              | 87 | 59  | 59         | 5         |
| SS- 167           | 120' LT | 66+00   | 6. 5- 8. 0     | A- 5( 0)      | 49   | 4    | 32          | 37. 2  | 21. 8 | 8. 9   | 99. 6              | 82 | 38  | 49         | -         |
| SS- 172           | 120' LT | 66+00   | 28. 5- 30. 0   | A- 5( 2)      | 44   | 9    | 14. 5       | 49. 1  | 23    | 13. 4  | 100                | 98 | 44  | 41         | -         |
| SS- 241           | 120' RT | 66+00   | 0. 0- 1. 5     | A- 6( 6)      | 38   | 14   | 18. 5       | 29. 3  | 21. 8 | 30. 4  | 97. 2              | 87 | 56  | 53         | -         |
| SS- 246           | 120' RT | 66+00   | 18. 5- 20. 0   | A- 4( 0)      | 33   | 5    | 20. 7       | 40. 9  | 29. 4 | 9      | 100                | 92 | 48  | 31         | -         |
| SS- 249           | 120' RT | 66+00   | 33. 5- 33. 9   | A- 2- 4( 0)   | NP   | NP   | 56. 6       | 31. 7  | 9. 4  | 2. 4   | 84. 1              | 56 | 13  | 12         | -         |
| SS- 207           | 80' RT  | 67+00   | 0. 0- 1. 5     | ( )           | NEM  | -    | 25. 9       | 22. 9  | 24. 1 | 27. 1  | 86. 3              | 72 | 47  | -          | 10. 2     |
| SS- 208           | 80' RT  | 67+00   | 3. 5- 5. 0     | A- 5( 9)      | 58   | 9    | 4. 9        | 37. 6  | 32. 5 | 25     | 100                | 99 | 67  | 56         | -         |
| SS- 211           | 80' RT  | 67+00   | 13. 5- 15. 0   | A- 2- 4( 0)   | NP   | NP   | 37. 9       | 41. 4  | 12. 4 | 8. 3   | 97. 7              | 79 | 26  | 55         | -         |
| SS- 232           | 70' LT  | 69+00   | 8. 5- 10. 0    | A- 7- 6( 4)   | 49   | 23   | 44          | 18. 6  | 13    | 24. 4  | 84. 2              | 56 | 34  | 22         | -         |
| SS- 394           | 21' LT  | 72+09   | 34. 4- 35. 9   | A- 5( 1)      | 54   | 5    | 16. 2       | 46. 2  | 26. 1 | 11. 5  | 100                | 96 | 46  | 66         | -         |

- L P B -

| SOIL TEST RESULTS |        |         |                |               |      |      |             |        |       |       |                    |    |     |            |           |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|-------|-------|--------------------|----|-----|------------|-----------|
| SAMPLE NO.        | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT |        |       |       | % PASSING (SIEVES) |    |     | % MOISTURE | % ORGANIC |
|                   |        |         |                |               |      |      | C.SAND      | F.SAND | SILT  | CLAY  | 10                 | 40 | 200 |            |           |
| SS- 1067          | 20' RT | 10 +50  | 18. 5- 20. 0   | A- 5( 6)      | 53   | 8    | 12. 8       | 34     | 42. 9 | 10. 3 | 100                | 96 | 61  | 58         | -         |

- R P B -

| SOIL TEST RESULTS |        |         |                |               |      |      |             |        |       |       |                    |    |     |            |           |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|-------|-------|--------------------|----|-----|------------|-----------|
| SAMPLE NO.        | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT |        |       |       | % PASSING (SIEVES) |    |     | % MOISTURE | % ORGANIC |
|                   |        |         |                |               |      |      | C.SAND      | F.SAND | SILT  | CLAY  | 10                 | 40 | 200 |            |           |
| SS- 360           | 30' LT | 13 +50  | 0. 0- 1. 5     | A- 7- 6( 11)  | 47   | 20   | 21. 2       | 21. 7  | 29. 4 | 27. 7 | 89. 5              | 77 | 54  | 40         | -         |
| SS- 358           | 35' RT | 15 +50  | 13. 5- 15. 0   | A- 7- 5( 19)  | 66   | 26   | 15. 1       | 22. 3  | 35. 7 | 26. 8 | 98. 5              | 88 | 66  | 62         | -         |
| SS- 405           | 25' RT | 21 +50  | 8. 5- 10. 0    | A- 7- 5( 21)  | 63   | 16   | 2. 5        | 16. 8  | 43. 5 | 37. 2 | 100                | 99 | 87  | 50         | -         |

- R P D -

| SOIL TEST RESULTS |        |         |                |               |      |      |             |        |       |       |                    |    |     |            |           |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|-------|-------|--------------------|----|-----|------------|-----------|
| SAMPLE NO.        | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT |        |       |       | % PASSING (SIEVES) |    |     | % MOISTURE | % ORGANIC |
|                   |        |         |                |               |      |      | C.SAND      | F.SAND | SILT  | CLAY  | 10                 | 40 | 200 |            |           |
| SS- 265           | 15' LT | 20 +00  | 8. 5- 10. 0    | A- 7- 5( 36)  | 72   | 33   | 2. 8        | 10. 6  | 48. 9 | 37. 8 | 100                | 99 | 89  | 70         | -         |

- Y 1 -

| SOIL TEST RESULTS |        |         |                |               |      |      |             |        |       |       |                    |    |     |            |           |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|-------|-------|--------------------|----|-----|------------|-----------|
| SAMPLE NO.        | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT |        |       |       | % PASSING (SIEVES) |    |     | % MOISTURE | % ORGANIC |
|                   |        |         |                |               |      |      | C.SAND      | F.SAND | SILT  | CLAY  | 10                 | 40 | 200 |            |           |
| SS- 106           | 25' RT | 12 +50  | 3. 5- 5. 0     | A- 7- 5( 35)  | 73   | 35   | 5. 9        | 22. 3  | 12. 6 | 59. 2 | 99. 8              | 97 | 84  | 31         | -         |

- Y 2 -

| SOIL TEST RESULTS |         |         |                |               |      |      |             |        |       |       |                    |    |     |            |           |
|-------------------|---------|---------|----------------|---------------|------|------|-------------|--------|-------|-------|--------------------|----|-----|------------|-----------|
| SAMPLE NO.        | OFFSET  | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT |        |       |       | % PASSING (SIEVES) |    |     | % MOISTURE | % ORGANIC |
|                   |         |         |                |               |      |      | C.SAND      | F.SAND | SILT  | CLAY  | 10                 | 40 | 200 |            |           |
| SS- 480           | 55' RT  | 29 +55  | 6. 0- 7. 5     | A- 4( 0)      | 33   | 3    | 10          | 48     | 27. 9 | 14    | 97                 | 93 | 52  | 42         | -         |
| SS- 9006          | 14' RT  | 30 +00  | 3. 5- 5. 0     | A- 7- 5( 15)  | 50   | 16   | 10. 1       | 15. 5  | 37. 7 | 36. 7 | 99. 4              | 94 | 77  | 33         | -         |
| SS- 487           | 120' RT | 32 +05  | 18. 5- 20. 0   | A- 4( 4)      | 39   | 7    | 16. 7       | 26. 8  | 40. 9 | 15. 6 | 93. 4              | 84 | 59  | 41         | -         |
| SS- 1015          | 13' RT  | 40 +00  | 3. 5- 5. 0     | A- 7- 5( 25)  | 67   | 28   | 12. 7       | 12. 8  | 14. 5 | 59. 9 | 95. 8              | 87 | 74  | 26         | -         |
| SS- 523           | 7' RT   | 40 +00  | 1. 3- 1. 8     | A- 7- 6( 16)  | 52   | 24   | 17. 3       | 19. 1  | 28. 9 | 34. 8 | 93. 8              | 83 | 64  | 16         | -         |
| SS- 1010          | 14' RT  | 45 +00  | 0. 0- 1. 5     | A- 7- 6( 20)  | 59   | 30   | 20. 4       | 15. 4  | 22. 7 | 41. 5 | 89. 9              | 78 | 60  | 32         | -         |
| SS- 1011          | 14' RT  | 45 +00  | 3. 5- 5. 0     | A- 7- 6( 4)   | 42   | 13   | 38. 1       | 17. 7  | 25. 6 | 18. 7 | 86. 8              | 61 | 42  | 21         | -         |
| SS- 519           | 7' RT   | 50 +00  | 2. 0- 3. 5     | A- 7- 5( 13)  | 51   | 18   | 13. 5       | 21. 7  | 32. 3 | 32. 5 | 90. 7              | 83 | 64  | 21         | -         |
| SS- 1022          | 6' RT   | 55 +00  | 1. 5- 3. 0     | A- 7- 5( 25)  | 62   | 22   | 2. 6        | 15. 9  | 41. 5 | 40    | 99. 8              | 99 | 87  | 37         | -         |

- Y 4 -

| SOIL TEST RESULTS |        |         |                |               |      |      |             |        |       |       |                    |    |     |            |           |
|-------------------|--------|---------|----------------|---------------|------|------|-------------|--------|-------|-------|--------------------|----|-----|------------|-----------|
| SAMPLE NO.        | OFFSET | STATION | DEPTH INTERVAL | AASHTO CLASS. | L.L. | P.I. | % BY WEIGHT |        |       |       | % PASSING (SIEVES) |    |     | % MOISTURE | % ORGANIC |
|                   |        |         |                |               |      |      | C.SAND      | F.SAND | SILT  | CLAY  | 10                 | 40 | 200 |            |           |
| SS- 30            | 20' LT | 11 +50  | 0. 0- 1. 5     | A- 7- 6( 19)  | 55   | 31   | 19. 8       | 18. 9  | 37. 9 | 23. 5 | 86. 9              | 76 | 56  | 22         | -         |

# CONE PENETROMETER RESULTS

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|              |                             |
|--------------|-----------------------------|
| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

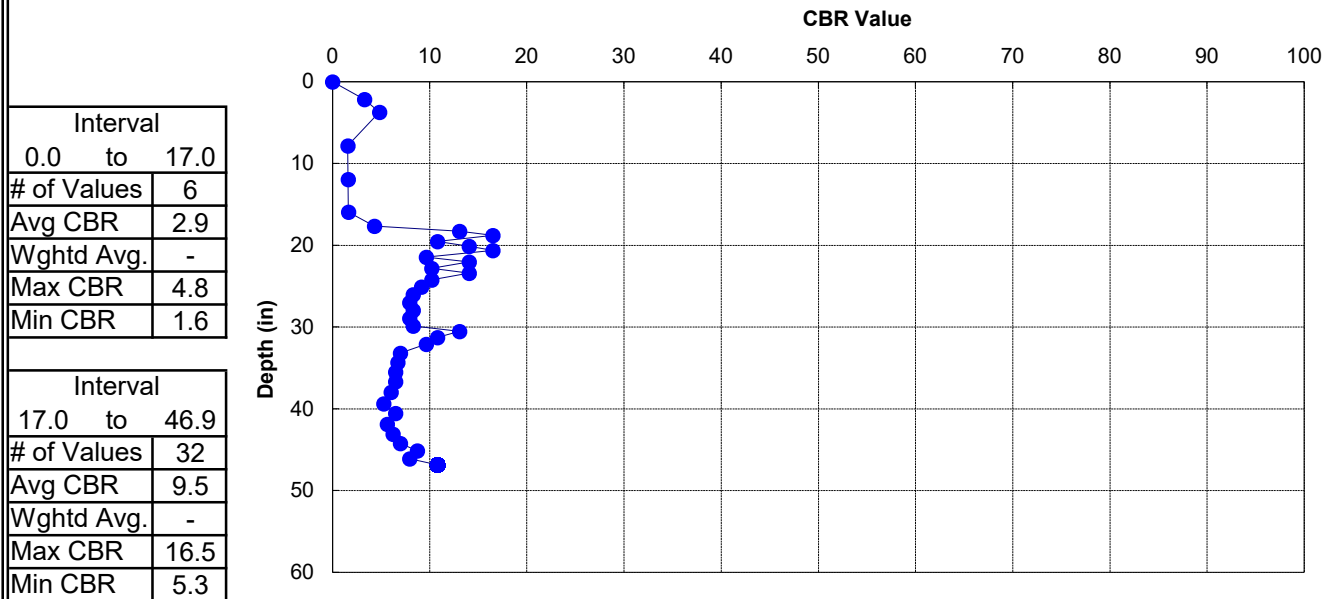
|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
| GEOTECH(S) | J. Rose      |
|            | J. Crenshaw  |
|            | M. Brewer    |

L1250

1

Datum = Exstg Grd Lvl

01/04/2024

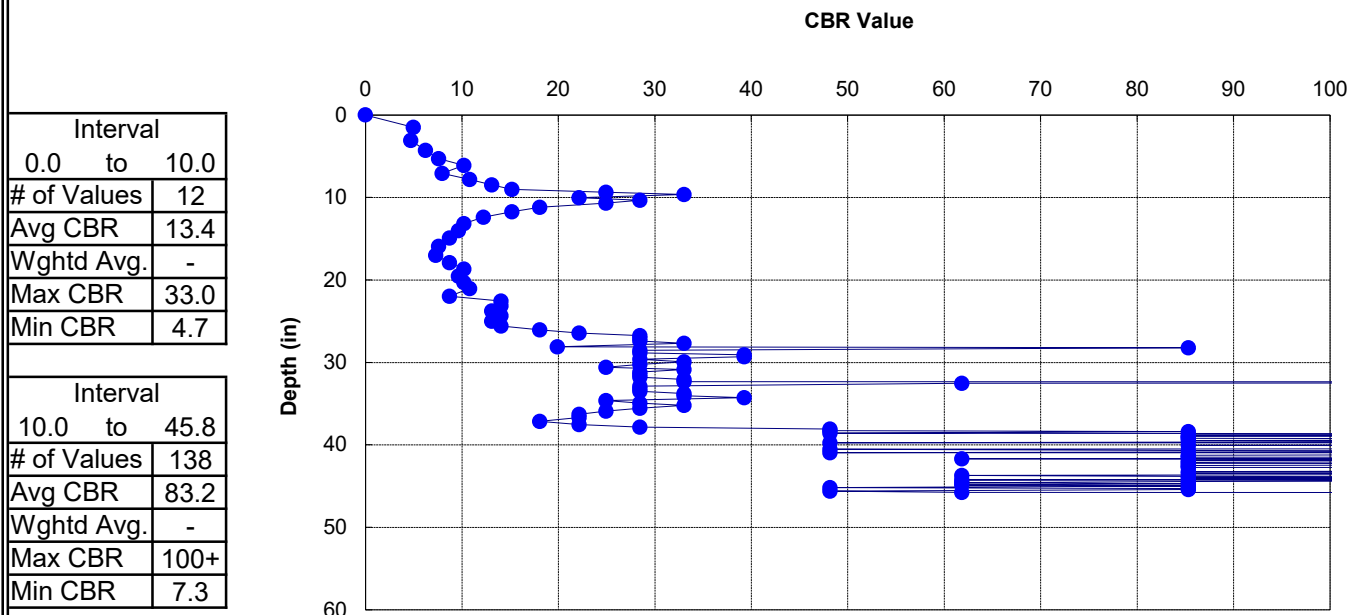


L1400

2

Datum = Exstg Grd Lvl

01/04/2024



# CONE PENETROMETER RESULTS

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|              |                             |
|--------------|-----------------------------|
| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
|            | J. Rose      |
| GEOTECH(S) | J. Crenshaw  |
|            | M. Brewer    |

L1600-A

3

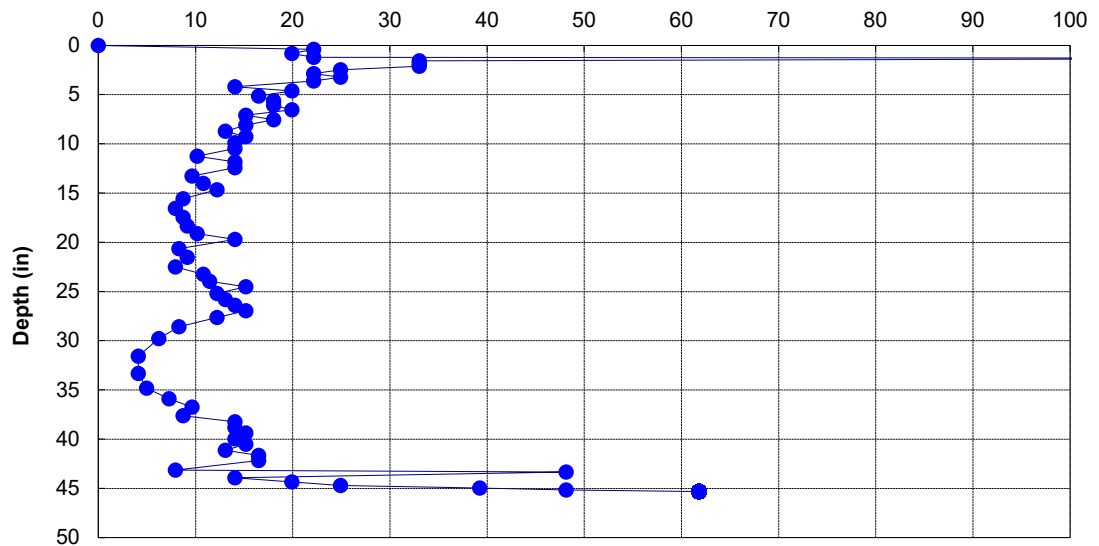
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01/04/2024

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 26.0 |
| # of Values | 45          |
| Avg CBR     | 18.6        |
| Wghtd Avg.  | -           |
| Max CBR     | 100+        |
| Min CBR     | 7.9         |

|             |              |
|-------------|--------------|
| Interval    | 26.0 to 45.3 |
| # of Values | 26           |
| Avg CBR     | 17.8         |
| Wghtd Avg.  | -            |
| Max CBR     | 61.8         |
| Min CBR     | 4.1          |



L1600-B

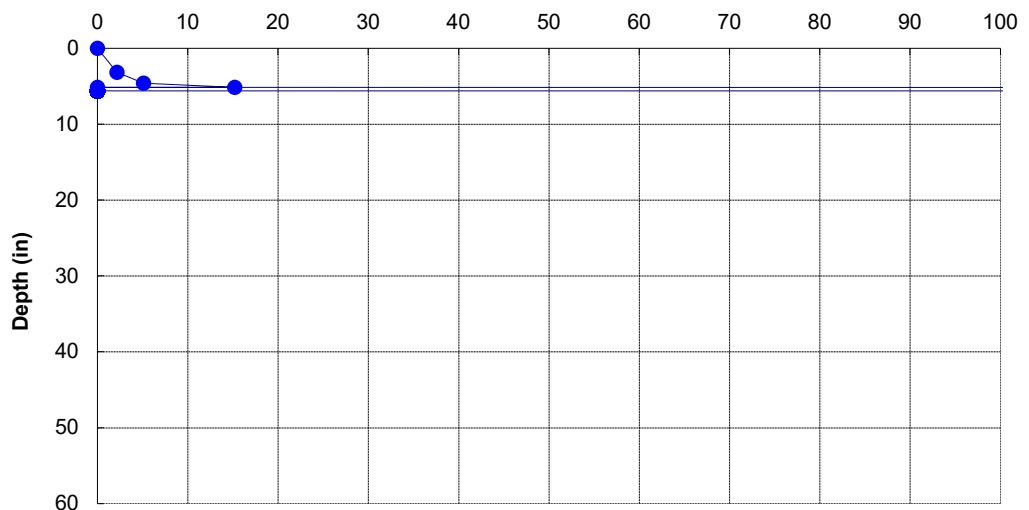
4

Datum = Exstg Grd Lvl

01/04/2024

CBR Value

|             |            |
|-------------|------------|
| Interval    | 0.0 to 5.2 |
| # of Values | 3          |
| Avg CBR     | 7.5        |
| Wghtd Avg   | -          |
| Max CBR     | 15.2       |
| Min CBR     | 2.2        |



# CONE PENETROMETER RESULTS

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| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
|            | J. Rose      |
| GEOTECH(S) | J. Crenshaw  |
|            | M. Brewer    |

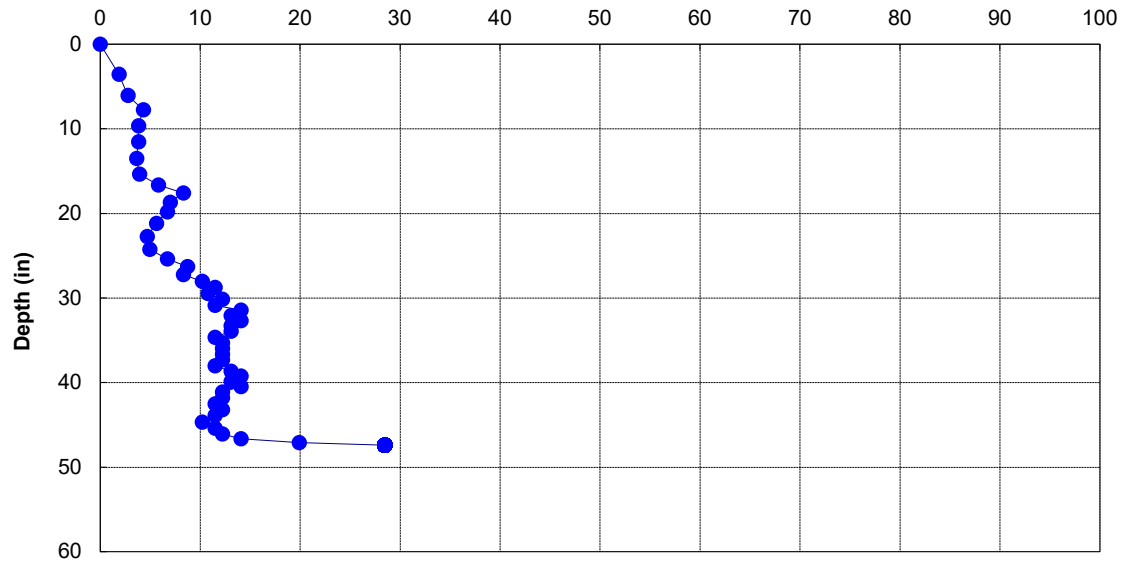
Y11450

5

Datum = Top of subgrade 02/01/2024

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 47.4 |
| # of Values | 48          |
| Avg CBR     | 10.3        |
| Wghtd Avg.  | -           |
| Max CBR     | 28.4        |
| Min CBR     | 1.9         |



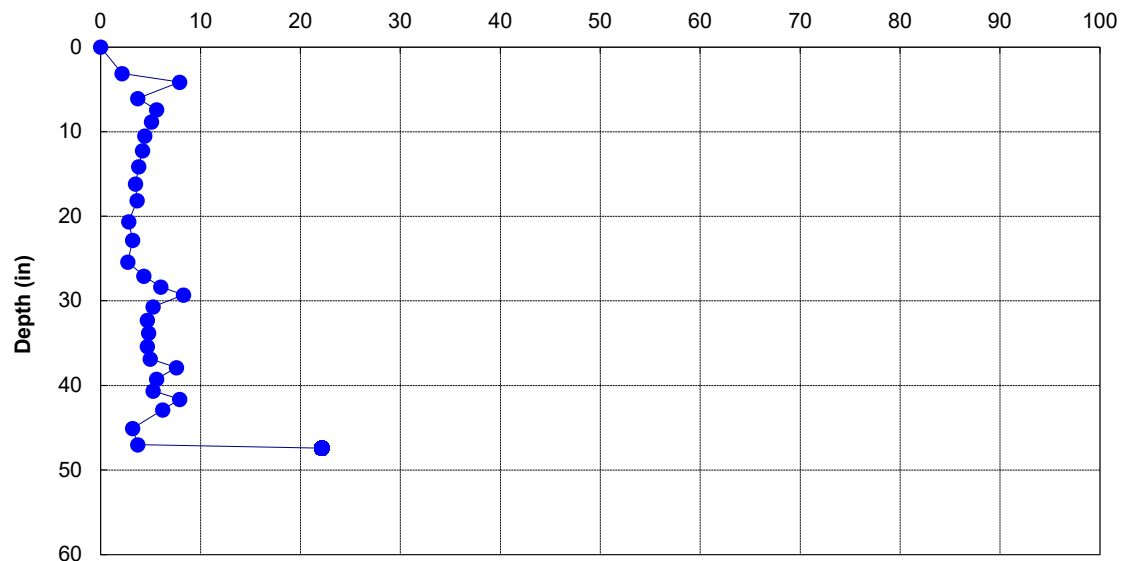
Y11650

6

Datum = Exstg Grd Lvl 01/04/2024

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 47.4 |
| # of Values | 29          |
| Avg CBR     | 5.4         |
| Wghtd Avg.  | -           |
| Max CBR     | 22.2        |
| Min CBR     | 2.2         |



# CONE PENETROMETER RESULTS

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| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
|            | J. Rose      |
| GEOTECH(S) | J. Crenshaw  |
|            | M. Brewer    |

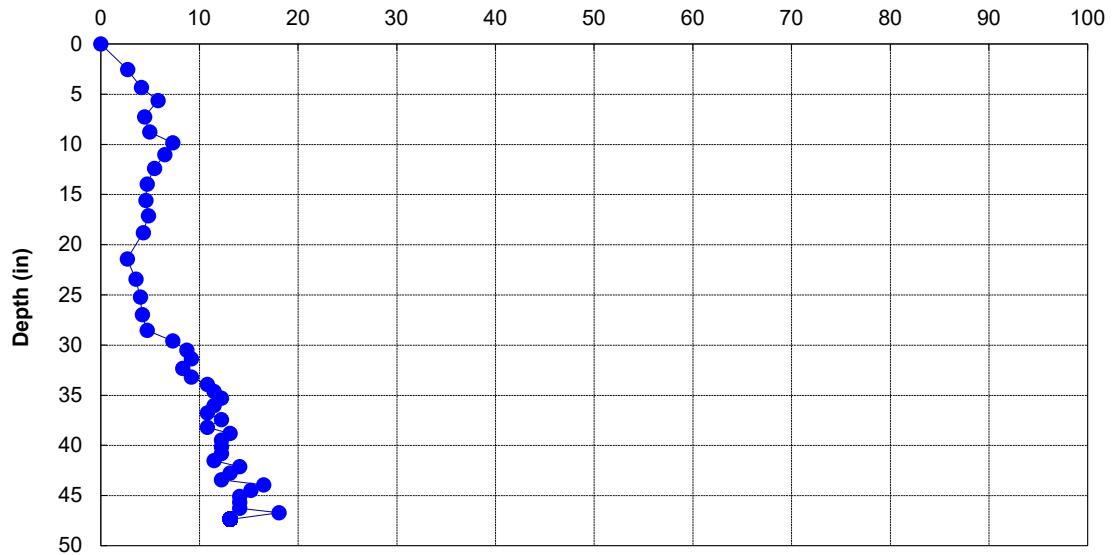
Y12650

7

Datum = Exstg Grd Lvl 01/04/2024

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 47.4 |
| # of Values | 44          |
| Avg CBR     | 9.2         |
| Wghtd Avg.  | -           |
| Max CBR     | 18.1        |
| Min CBR     | 2.7         |



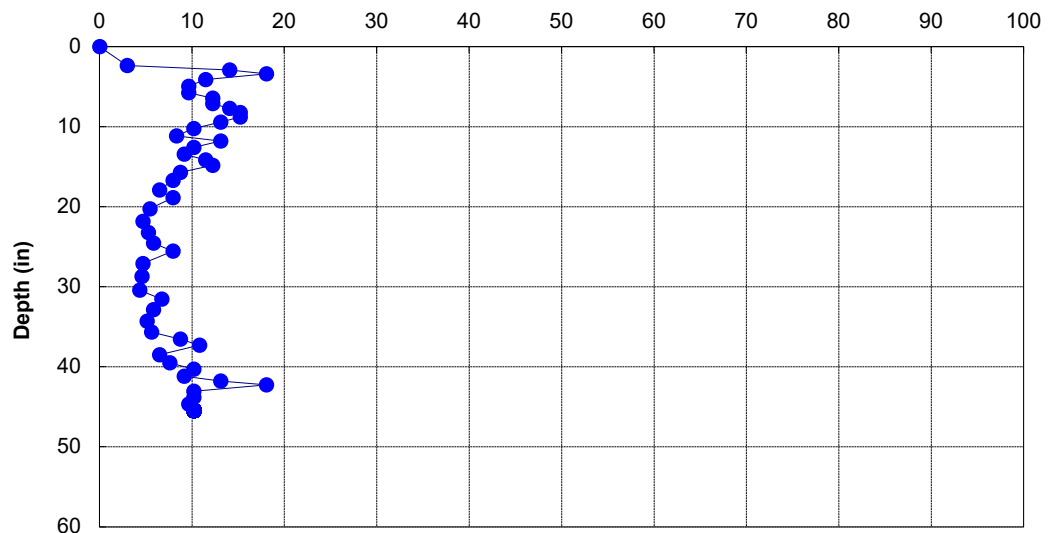
Y12850

8

Datum = Exstg Grd Lvl 01/04/2024

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 45.5 |
| # of Values | 47          |
| Avg CBR     | 9.4         |
| Wghtd Avg.  | -           |
| Max CBR     | 18.1        |
| Min CBR     | 3.0         |





# CONE PENETROMETER RESULTS

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|--------------|-----------------------------|
| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
|            | J. Rose      |
| GEOTECH(S) | J. Crenshaw  |
|            | M. Brewer    |

Y13050

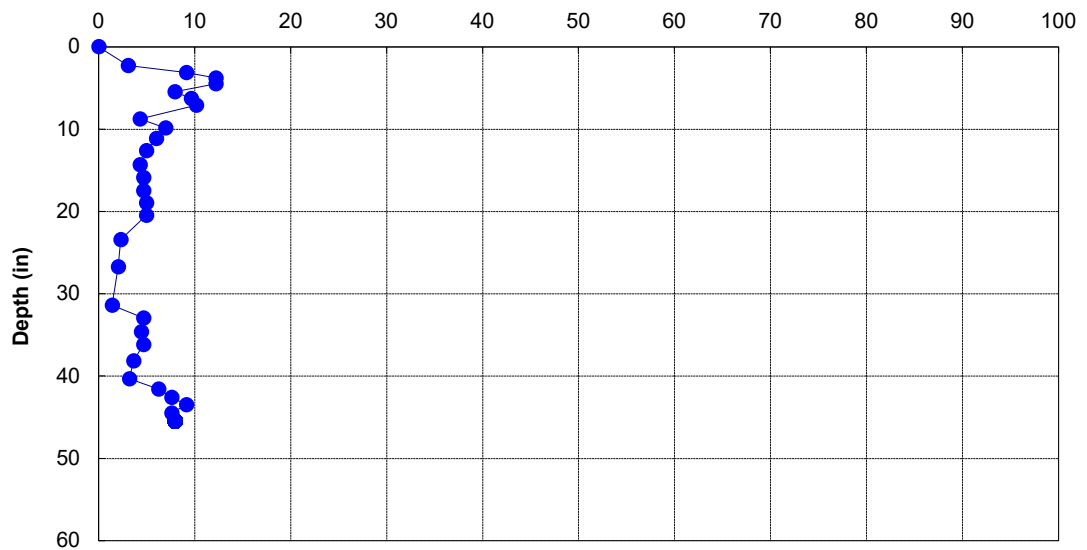
9

Datum = Exstg Grd Lvl

12/20/2023

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 45.5 |
| # of Values | 29          |
| Avg CBR     | 6.0         |
| Wghtd Avg.  | -           |
| Max CBR     | 12.2        |
| Min CBR     | 1.4         |



Y13250

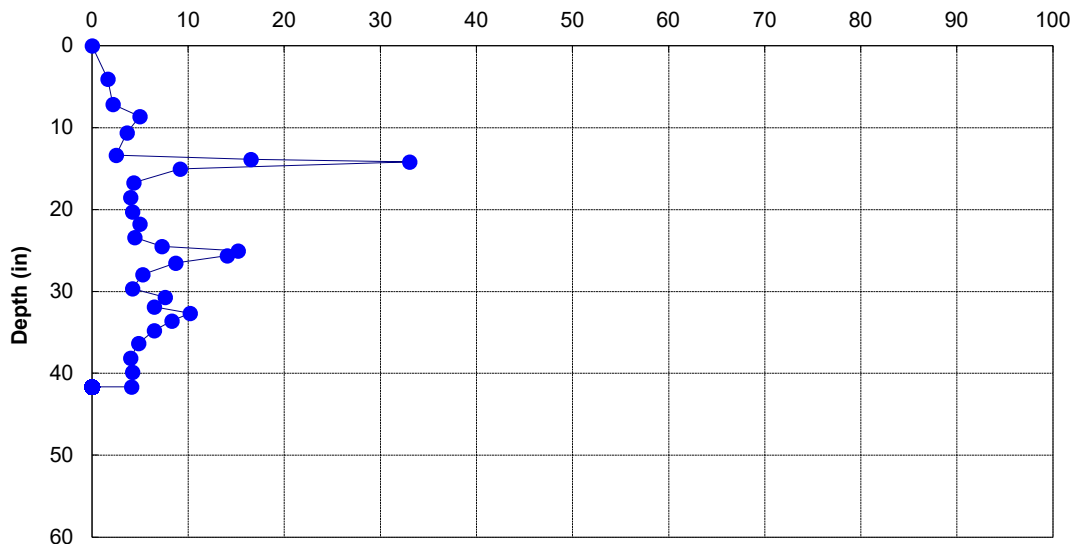
10

Datum = Exstg Grd Lvl

12/20/2023

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 41.7 |
| # of Values | 28          |
| Avg CBR     | 7.4         |
| Wghtd Avg.  | -           |
| Max CBR     | 33.0        |
| Min CBR     | 1.6         |



# CONE PENETROMETER RESULTS

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|              |                             |
|--------------|-----------------------------|
| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
|            | J. Rose      |
| GEOTECH(S) | J. Crenshaw  |
|            | M. Brewer    |

Y13450

11

Datum = Exstg Grd Lvl

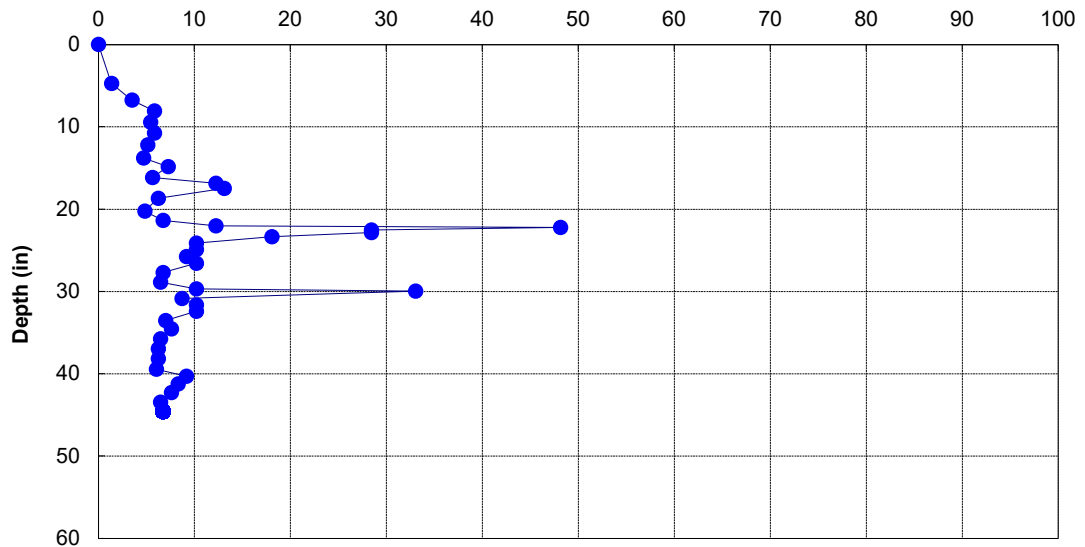
12/20/2023

CBR Value

|             |         |
|-------------|---------|
| Interval    |         |
| 0.0         | to 22.9 |
| # of Values | 19      |
| Avg CBR     | 11.7    |
| Wghtd Avg.  | -       |
| Max CBR     | 48.1    |
| Min CBR     | 1.4     |

|             |         |
|-------------|---------|
| Interval    |         |
| 22.9        | to 44.6 |
| # of Values | 22      |
| Avg CBR     | 9.2     |
| Wghtd Avg.  | -       |
| Max CBR     | 33.0    |
| Min CBR     | 6.0     |



Y31010

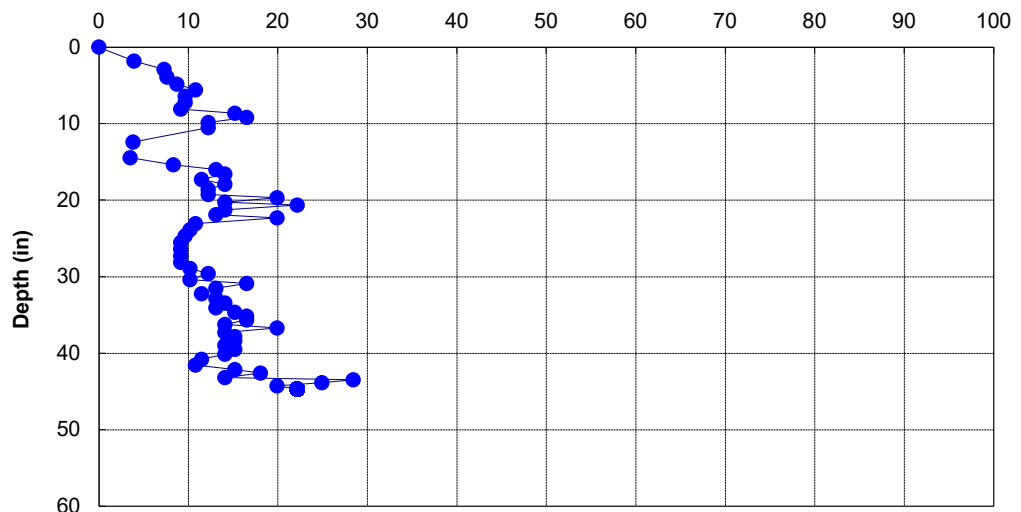
12

Datum = Exstg Grd Lvl

12/20/2023

CBR Value

|             |         |
|-------------|---------|
| Interval    |         |
| 0.0         | to 44.7 |
| # of Values | 63      |
| Avg CBR     | 13.3    |
| Wghtd Avg.  | -       |
| Max CBR     | 28.4    |
| Min CBR     | 3.5     |



# CONE PENETROMETER RESULTS

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|              |                             |
|--------------|-----------------------------|
| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
|            | J. Rose      |
| GEOTECH(S) | J. Crenshaw  |
|            | M. Brewer    |

Y41520

13

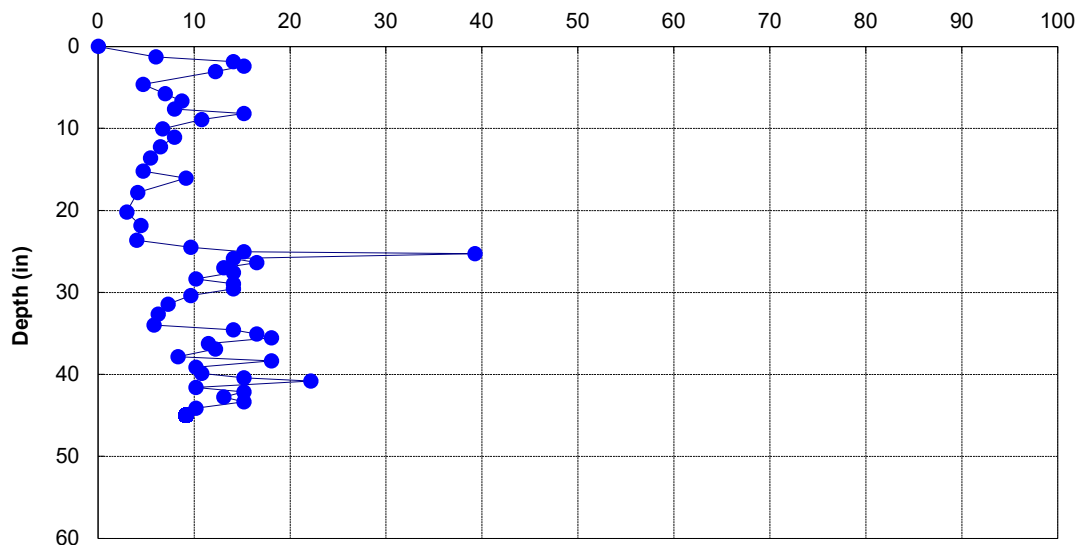
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01/04/2024

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 17.4 |
| # of Values | 17          |
| Avg CBR     | 8.6         |
| Wghtd Avg.  | -           |
| Max CBR     | 15.2        |
| Min CBR     | 4.1         |

|             |              |
|-------------|--------------|
| Interval    | 17.4 to 45.0 |
| # of Values | 34           |
| Avg CBR     | -            |
| Wghtd Avg.  | 2.6          |
| Max CBR     | 39.3         |
| Min CBR     | 3.0          |



Y42100

14

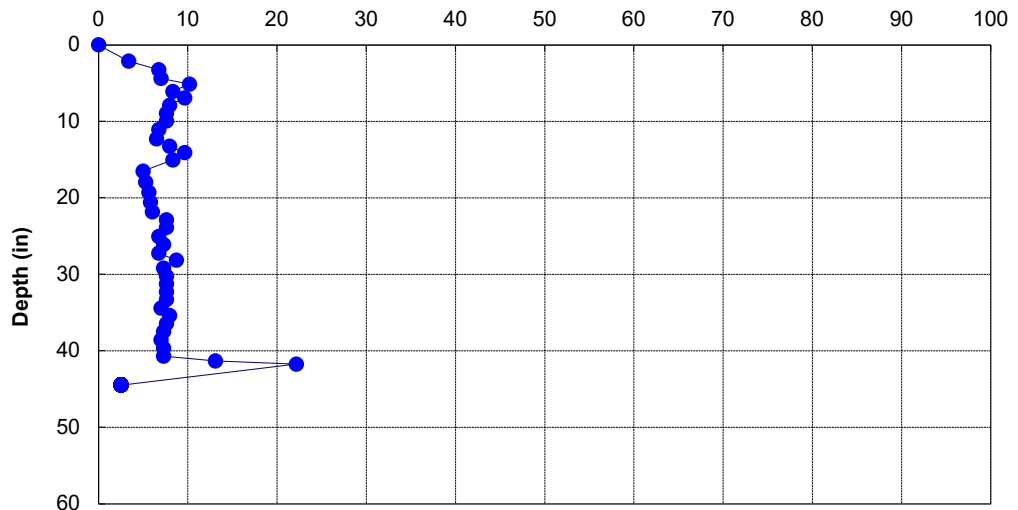
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12/20/2023

CBR Value

|             |             |
|-------------|-------------|
| Interval    | 0.0 to 30.6 |
| # of Values | 28          |
| Avg CBR     | 7.2         |
| Wghtd Avg.  | -           |
| Max CBR     | 10.2        |
| Min CBR     | 3.4         |

|             |              |
|-------------|--------------|
| Interval    | 30.6 to 44.5 |
| # of Values | 12           |
| Avg CBR     | 8.7          |
| Wghtd Avg.  | -            |
| Max CBR     | 22.2         |
| Min CBR     | 2.5          |



CONE PENETROMETER RESULTS

|              |                             |
|--------------|-----------------------------|
| PROJECT NO.  | U-6187                      |
| PROJECT NAME | 2-Lane Extension of SR 1630 |
| ROUTE        | I 40, US 158, and SR 1630   |
| COUNTY       | Davie                       |

|            |              |
|------------|--------------|
| GEOLOGIST  | Quinton Hill |
|            | J. Rose      |
| GEOTECH(S) | J. Crenshaw  |
|            | M. Brewer    |

RPC1600

15

Datum = Exstg Grd Lvl 12/20/2023

CBR Value

|             |         |
|-------------|---------|
| Interval    |         |
| 0.0         | to 45.5 |
| # of Values | 29      |
| Avg CBR     | 6.0     |
| Wghtd Avg.  | -       |
| Max CBR     | 12.2    |
| Min CBR     | 1.4     |

