SOIL SURVEY REPORT
I-575 from Barrett Parkway to Sixes Road
Northwest Corridor Project
GDOT Project No. CSNHS-0008-00(256), PI No. 0008256
Cobb and Cherokee Counties, Georgia

Document No.: ATL-171-3099
Revision: 1
Issue Date: May 16, 2008
Document Status: Issued For Use

Prepared For

GEORGIA TRANSPORTATION PARTNERS
Atlanta, Georgia

Prepared By

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WILLMER ENGINEERING INC. WE

May 16, 2008

VIA FEDERAL EXPRESS

Pete M. McMahon, PE
Georgia Transportation Partners
c/o PBS&J, Inc.
5665 New Northside Drive
Suite 400
Atlanta, Georgia 30328

SUBJECT: **Soil Survey Report**
I-575 from Barrett Parkway to Sixes Road
Northwest Corridor Project
GDOT Project No. CSNHS -0008-00(256), PI No. 0008256
Cobb and Cherokee Counties, Georgia
Willmer Project No. ATL-171-3099

Dear Mr. McMahon:

Willmer Engineering Inc. (Willmer) is pleased to provide the attached Soil Survey report for the proposed widening of I-575 from Barrett Parkway in Cobb County to Sixes Road in Cherokee County, Georgia. This report was prepared by Professional Service Industries, Inc. (PSI) under a Subconsulting Services Agreement with Willmer, dated December 19, 2006, and in general accordance with our contract with Georgia Transportation Partners (GTP), dated May 12, 2007. The report was prepared in general accordance with Georgia Department of Transportation (GDOT) guidance documents on Soil Survey for roadway design. This report was revised to incorporate GTP comments dated January 30, 2008, and GDOT comments dated April 25, 2008.

The attached summary presents the site and subsurface conditions along the project alignment, and geotechnical recommendations related to roadway design and construction.

We appreciate the opportunity to be of service to you on this project and look forward to a continuing relationship. Please contact us if you have any questions concerning this report or require further assistance.

Sincerely,

WILLMER ENGINEERING INC.

Sujit K. Bhowmik, PhD, PE
Principal Geotechnical Consultant

James L. Willmer, PE
Vice President/Principal Consultant

SKB/JLW:kas
I:\Word Processing\Projects\171-GEO\171-3099 Northwest Corridor Project (Bechtel)\Reports\WEI Report Cover for PSI Report Revision 1 - 171-3099 (Soil Survey - Barrett Parkway to Sixes Road).doc

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Attachments: **Soil Survey Report**

Special Provision

Section 205	Roadway Excavation

Figures

Figure 1	Site Location Plan
Figure 2	Boring Location Plan

Appendix I

Berm Detail for Cuts and Fills Over 35 feet
Serrated Slope Detail
Benching Details
Pipe Culvert Material Alternates

Appendix II

Soil Survey Logs and Notes
SPT Boring Logs

Appendix III

810.02 Lab Test Summary
Consolidation Test Data

Revision History:

Revision	Issue Date	Document Status
A	January 23, 2008	Issued for Review
0	February 15, 2008	Issued for Use
1	May 16, 2008	Issued for Use

SOIL SURVEY REPORT

For

PROJECT CSNHS-0008-00(256), Cobb and Cherokee Counties
PI No. 0008256

1. Location / Description

This project involves widening of Interstate I-575 beginning at the intersection of I-575 and Barrett Parkway in Cobb County and extending North to the intersection of I-575 and Sixes Road in Cherokee County, Georgia. The construction work begins at Station 80+00 and extends North to Station 759+00, which covers approximately 10.4 miles in length. The planned improvements involve adding HOV lanes along I-575, widening of 10 bridges and relocation of exit ramps and crossroads. The location of the project is shown in Figure 1.

2. Geology

This project alignment is geologically sited in the Mica Schists, Amphibolites and Biotite Gneiss Formation of the Georgia Piedmont Region.

3. Rock

Rock, noted as auger refusal was encountered at several boring locations. It is estimated that this material will be encountered at the following locations:

Station to Station	Location
471+50± to 477+50±	Left
665+50± to 670+50±	Right
699+50± to 702+00±	Center

In addition to the rock (auger refusal) described above, exposed boulders/rocks were observed on the existing ground surface and/or roadway cut slopes at the following locations:

Station to Station	Location
107+50± to 112+50±	Center
35+50± to 40+00± (Bells Ferry Rd. Ramp P)	Right

The boulders and the upper fractured portion of the rock will likely be removable by heavy equipment and some light blasting. Hard rock below the upper fractured portion will require blasting for removal.

4. Removal

A. Rock:

The rock material excavated from the cut areas should be processed and used in the fill areas in accordance with the standard GDOT specifications.

B. Soils with High In-Place Moisture Content:

In some parts of the project alignment, the soils at/near the proposed grade were found to have in-place moisture contents far above the corresponding optimum moisture contents. This condition has the potential to cause severe pumping problems during subgrade and base construction. After excavation in these areas is complete, we recommend that 24-inches of subgrade soils from beneath the proposed pavement and shoulders be removed, and either dried out and replaced, or replaced with drier soils. The locations where high in-place moisture contents will likely be encountered are:

Station to Station	Location
80+00± to 82+30±	Left
84+40± to 87+50±	Left
87+50± to 92+50±	Right
96+50± to 103+50±	Left, Center and Right
104+50± to 107+50±	Right
110+50± to 119+00±	Left, Center and Right
123+50± to 128+50±	Left, Center and Right
129+50± to 134+50±	Right
133+50± to 136+00±	Center
138+00± to 149+00±	Left, Center and Right
152+50± to 154+50±	Left and Center
161+00± to 169+80±	Left, Center and Right
172+50± to 178+50±	Left, Center and Right
184+50± to 187+50±	Left, Center and Right
198+50± to 208+50±	Right
212+50± to 215+50±	Left, Center and Right
218+00± to 221+50±	Left
234+50± to 241+50±	Center and Right
241+50± to 256+50±	Left, Center and Right
256+50± to 278+50±	Left
271+50± to 277+00±	Center and Right
279+00± to 280+00±	Center and Right
425+00± to 432+50±	Right
428+50± to 433+50±	Left and Center
438+50± to 447+50±	Left, Center and Right
508+50± to 527+50±	Right

(continued next page)

4. Removal
(continue)

Station to Station	Location
518+00± to 527+50±	Left and Center
550+50± to 565+50±	Center
554+50± to 567+00±	Left and Right
12+50± to 17+50± (Barrett Pkwy Ramp B)	Left and Right
31+00± to 35+50± (Barrett Pkwy Ramp D)	Left and Right
10+00± to 15+50± (Chastain Rd Ramp I)	Left and Right
16+00± to 25+00± (Chastain Rd Ramp J)	Left and Right
30+00± to 33+50± (Chastain Rd Ramp K)	Left and Right
36+00± to 40+00± (Bells Ferry Rd Ramp P)	Left and Right
17+00± to 25+00± (Hwy 92 Ramp V)	Left and Right
25+00± to 33+50± (Hwy 92 Ramp W)	Left and Right
31+50± to 40+00± (Towne Lake Pkwy Ramp FF)	Left and Right
40+00± to 47+00± (Big Shanty Rd)	Left and Right

This work should be done under the direction of the Engineer, and may be eliminated if the subgrade soils are dry and stable at the time of construction.

5. Waste

None of the materials found on this project will require wasting. However, high-volume change Class IIIC2 and IIIC3 soils excavated from the following areas should not be placed within three feet of the bottom of the subgrade directly beneath the pavement section:

Station to Station	Location
158+50± to 163+50±	Center
196+50± to 201+50±	Center
206+50± to 211+50±	Center
428+50± to 433+50±	Left, Center and Right
443+50± to 448+50±	Left and Center
451+00± to 458+50±	Left and Right
503+00± to 518+00±	Right
518+00± to 523+00±	Center
523+00± to 537+50±	Left

(continued next page)

5. Waste (continue)

Station to Station	Location
531+50± to 535+50±	Center
547+50± to 553+50±	Left, Center and Right
553+50± to 567+00±	Left and Right
573+50± to 578+50±	Left, Center and Right
603+50± to 608+50±	Center and Right
623+50± to 633+50±	Left, Center and Right
657+50± to 660+50±	Right
669+50± to 674+50±	Left and Right
688+50± to 693+50±	Center
727+50± to 732+50±	Left, Center and Right
17+00± to 25+00± (Hwy 92 Ramp V)	Left and Right
12+00± to 16+50± (Towne Lake Pkwy Ramp DD)	Left and Right
36+00± to 42+00± (Towne Lake Pkwy Ramp EE)	Left and Right
31+50± to 40+00± (Towne Lake Pkwy Ramp FF)	Left and Right

These soils may be used in the bottom of high fill sections, in the shoulders, or in the side slopes as directed by the Engineer. This work shall be done in accordance with Special Provision 205.

6. Subgrade Materials

No additional subgrade materials will be required for this project.

7. Pavement Design

We recommend the use of a minimum of 12 inches of graded aggregate base (GAB) in the pavement section for this project due to heavy traffic volume and subgrade soils with moderate soil support values. However, this depth of base materials may be slightly reduced on side streets with low-volume traffic.

Class IIIC2 and IIIC3 soils, which exhibit high volume change and are considered to have poor load-carrying characteristics, were encountered at the proposed subgrade level at many locations along the project alignment. We recommend that an additional 4 inches of graded aggregate base in the following at-grade and cut areas be set up for use at the direction of the Engineer:

Station to Station	Location
158+50± to 163+50±	Center
196+50± to 201+50±	Center
206+50± to 211+50±	Center
428+50± to 433+50±	Left, Center and Right
443+50± to 448+50±	Left and Center

(continued next page)

7. Pavement Design (continue)

Station to Station	Location
451+00± to 458+50±	Left and Right
503+00± to 518+00±	Right
518+00± to 523+00±	Center
523+00± to 537+50±	Left
531+50± to 535+50±	Center
547+50± to 553+50±	Left, Center and Right
553+50± to 567+00±	Left and Right
573+50± to 578+50±	Left, Center and Right
603+50± to 608+50±	Center and Right
623+50± to 633+50±	Left, Center and Right
657+50± to 660+50±	Right
669+50± to 674+50±	Left and Right
688+50± to 693+50±	Center
727+50± to 732+50±	Left, Center and Right
17+00± to 25+00± (Hwy 92 Ramp V)	Left and Right
12+00± to 16+50± (Towne Lake Pkwy Ramp DD)	Left and Right
36+00± to 42+00± (Towne Lake Pkwy Ramp EE)	Left and Right
31+50± to 40+00± (Towne Lake Pkwy Ramp FF)	Left and Right

In addition, soils with low soil support values (ranging from 1.0 to 1.4) were encountered at several locations. We recommend that an additional 4 inches of graded aggregate base be set up in the following areas at the direction of the engineer:

Station to Station	Location
87+50± to 99+00±	Left, Center and Right
201+50± to 206+50±	Left, Center and Right
221+50± to 225+00±	Left, Center and Right
12+00± to 25+00± (Barrett Pkwy Ramp B)	Left and Right

The additional 4 inches of GAB thickness should be installed by undercutting subgrade soils and replacing with GAB. The Class IIIC2 and IIIC3 soils undercut from these areas should be used as described under "5. Waste".

8. Pavement Design Values

We recommended the following values for use in the pavement design calculations for the entire length of the project:

Soil Support Value (Cobb County)	**= 2.0**
Soil Support Value (Cherokee County)	**= 2.5**
Regional Factor (Cobb County)	**= 1.8**
Regional Factor (Cherokee County)	**= 2.0**
Subgrade Reaction Modulus, k (Cobb County)	**= 110 pci**
Subgrade Reaction Modulus, k (Cherokee County)	**= 130 pci**

Graded aggregate base is the only base material recommended for use on this project.

9. Slopes

A. General Slopes:

Standard Penetration Test (SPT) borings and slope stability analyses were performed in areas with high fill and weak subgrade. Logs of the SPT borings are included in Appendix II. Based on the results of our stability analyses, it is recommended that a maximum slope of 2:1 be used in all areas. However, the fill slope areas noted below should be constructed in 2-stages due to very weak subgrade. The fill slope should be constructed to half of the final height, and after a 60-day waiting period, the fill slope may be constructed to its final height. Slope constructed in accordance with the above recommendation will have a minimum safety factor of 1.3.

Station to Station	Location
537+50± to 549+50±	Right
579+50± to 582+50±	Right

B. Slopes Greater than 35 feet in Height:

Embankment and cut slopes with 2:1 slope angle and greater than 35 feet in height will require construction of a berm in accordance with the attached "Berm Detail" (see Appendix I) at the following locations:

Station to Station	Location
256+50± to 260+50±	Left
616+00± to 619+50±	Left
655+50± to 657+50±	Right
676+50± to 678+50±	Right
680+50± to 681+50±	Right
691+50± to 695+50±	Left
700+50± to 702+50±	Left
35+25± to 40+25± (Bells Ferry Ramp P)	Right
38+75± to 40+25± (Towne Lake Pkwy Ramp FF)	Right

10. Serrated Slopes: Serrated slopes in weathered rock may be required on this project, as directed by the Engineer. If used, serrating should be done in accordance with the "Serrated Slope Detail" presented in Appendix I.

11. Bench Detail Where new fills are to be placed on existing slopes steeper than 3:1, the existing slope should be benched in accordance with the "Benching Detail" presented in Appendix I.

12. Ground Water Groundwater was encountered below grade at some locations of subsurface borings but is not expected to cause problems during construction.

13. Shrinkage We recommend an average shrinkage factor of 20% for use in the earthwork calculations for this project.

14. Rock Swell We recommend the use of an average swell factor of 30% for materials identified as refusal material on the "Soil Survey Logs and Notes" in Appendix II.

15. Culverts We recommend that a 12-inch blanket of Type II Foundation Backfill material be placed under the barrel of all culverts, and 48-inch diameter and larger cross-drains on this project with the exception of the culverts at the following locations where a 24-inch blanket of Type II Foundation Backfill is recommended:

Station	Culvert Size	Type II Foundation Backfill Required
126+00±	10'x9'	24"
128+00±	10'x9'	24"
447+00±	8'x6'	24"
505+00±	8'x10'	24"
542+00± to 544+00±	6'x6'	24"

This recommendation is based on the soft/loose soil and high fill conditions encountered at the culvert locations. Logs of SPT borings performed at several culvert locations are included in Appendix II.

16. Corrosion In selecting culvert material types, reference should be made to the attached (Appendix I) "Pipe Culvert Material Alternates" for materials allowable based on the laboratory corrosion tests.

Corrosion potential tests, consisting of electrical resistivity and pH tests, were performed on soil samples obtained along the length of the project. The laboratory test data and the location of soil samples are shown on the 810.02 Laboratory Test Summary in Appendix III.

17. Waiting Period

We recommend that a waiting period of 60 days be allowed between fill placement and approach pavement construction in the following bridge abutment areas:

A. I-575 Over Barrett Parkway

Station to Station	Location
81+65± to 82+15±	Left and Right
84+25± to 84+75±	Left and Right

B. I-575 Over Noonday Creek (North)

Station to Station	Location
570+40± to 570+90±	Right
572+30± to 572+80±	Left
572+70± to 573+20±	Right
575+00± to 575+50±	Left

C. I-575 Over Towne Lake Parkway

Station to Station	Location
582+00± to 582+50±	Left and Right
584+35± to 584+85±	Left and Right

18. Special Problems

A. Several residences and businesses are located close to the construction limits of the project. Vibrations from construction may be of concern to the property owners. It is recommended that the Engineer contact the Geotechnical Engineering Bureau prior to construction to evaluate the need for crack surveys and vibration monitoring.

B. It is recommended that the bridge approach slabs on this project be constructed in accordance with the notched detail on Georgia Standard 9017-R.

Reported By:

Lauren Hill, E.I.T.

Reviewed By:

Karl E. Suter, P.E.

GEORGIA REGISTERED 5/16/08 No. 19002 PROFESSIONAL ENGINEER KARL E. SUTER

Revised: December 18, 2002

DEPARTMENT OF TRANSPORATION
STATE OF GEORGIA

SPECIAL PROVISION

PROJECT NO. CSNHS-0008-00(256), Cobb and Cherokee Counties
P.I. NO. 0008256

SECTION 205 – ROADWAY EXCAVATION

Add the following to Sub-section 205.3.05.E:

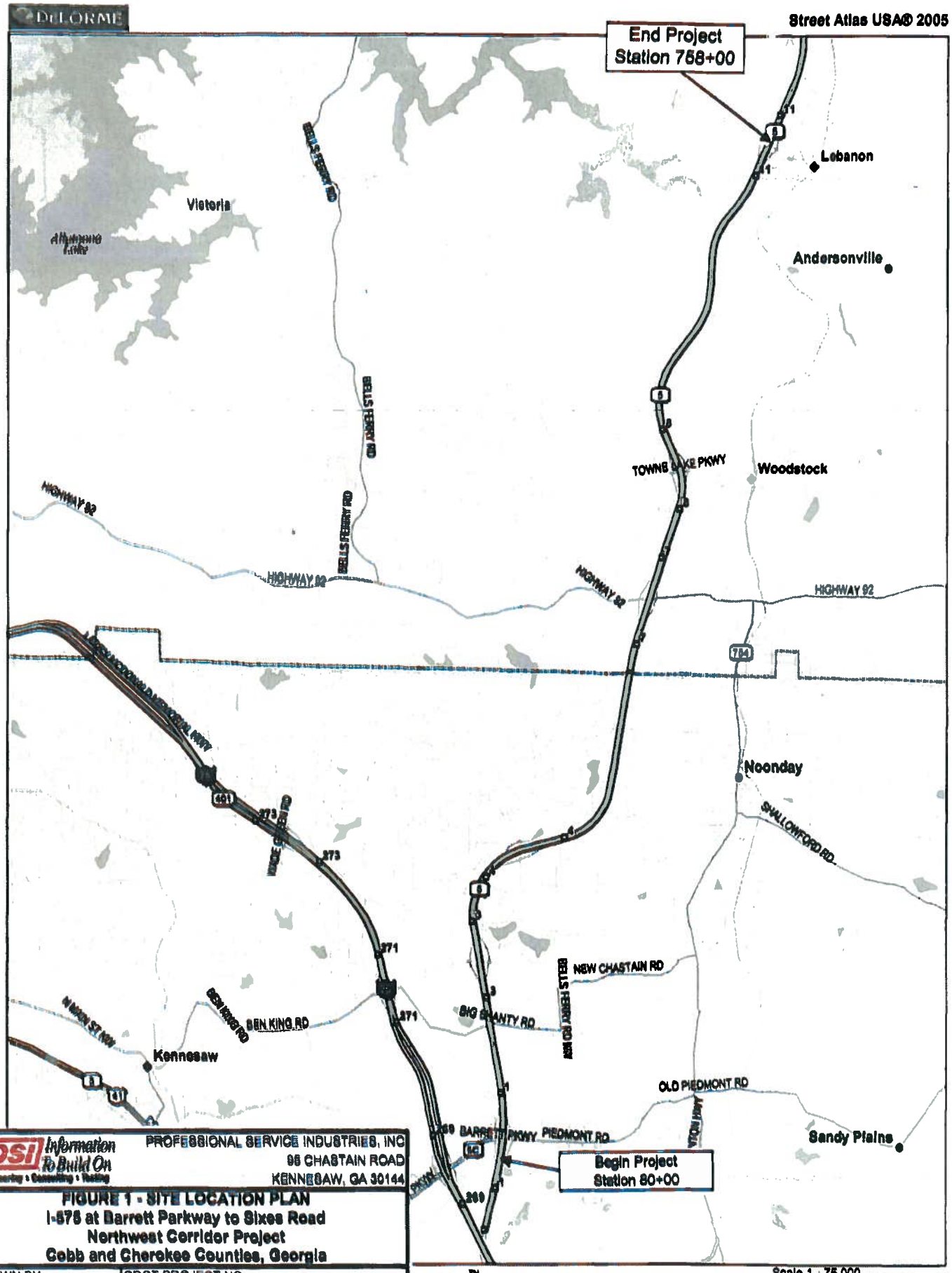
The soils that will be excavated from the following cut sections are primarily Class IIIC soils with poor load carrying characteristics. Do not place these soils within 3 feet (915 mm) of the subgrade directly beneath the pavement in fill sections. These soils may be placed in the bottom of high fill sections, in the shoulders or in the median as directed by the Engineer:

Station to Station	Location
158+50± to 163+50±	Center
196+50± to 201+50±	Center
206+50± to 211+50±	Center
428+50± to 433+50±	Left, Center and Right
443+50± to 448+50±	Left and Center
451+00± to 458+50±	Left and Right
503+00± to 518+00±	Right
518+00± to 523+00±	Center
523+00± to 537+50±	Left
531+50± to 535+50±	Center
547+50± to 553+50±	Left, Center and Right
553+50± to 567+00±	Left and Right
573+50± to 578+50±	Left, Center and Right
603+50± to 608+50±	Center and Right
623+50± to 633+50±	Left, Center and Right
657+50± to 660+50±	Right
669+50± to 674+50±	Left and Right
688+50± to 693+50±	Center
727+50± to 732+50±	Left, Center and Right
17+00± to 25+00± (Hwy 92 Ramp V)	Left and Right
12+00± to 16+50± (Towne Lake Pkwy Ramp DD)	Left and Right
36+00± to 42+00± (Towne Lake Pkwy Ramp EE)	Left and Right
31+50± to 40+00± (Towne Lake Pkwy Ramp FF)	Left and Right

FIGURES

Site Location Plan

Boring Location Plan



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PROFESSIONAL SERVICE INDUSTRIES, INC
95 CHASTAIN ROAD
KENNESAW, GA 30144

FIGURE 1 - SITE LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNH -0008-00(256) PI NO. 0008256
CHECKED BY: K SUTER	DATE: 12/21/2007

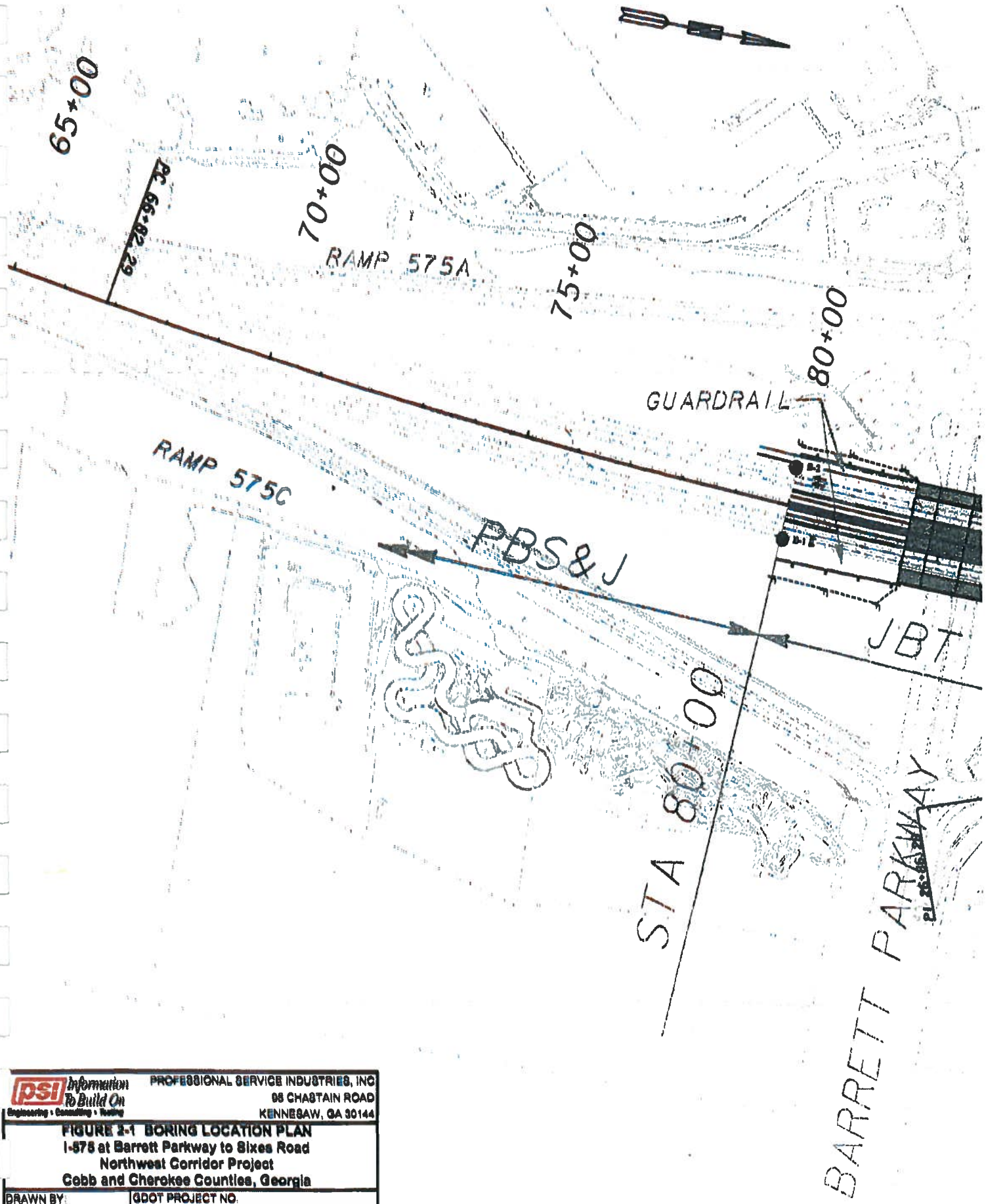

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FIGURE 2-1 BORING LOCATION PLAN **I-575 at Barrett Parkway to Sixes Road** **Northwest Corridor Project** **Cobb and Cherokee Counties, Georgia**	
DRAWN BY: Willie Liew	GDOT PROJECT NO.: CSNHS-0008-00(256) PI NO. 0008256
CHECKED BY: K SUTER	DATE: 12/21/2007

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

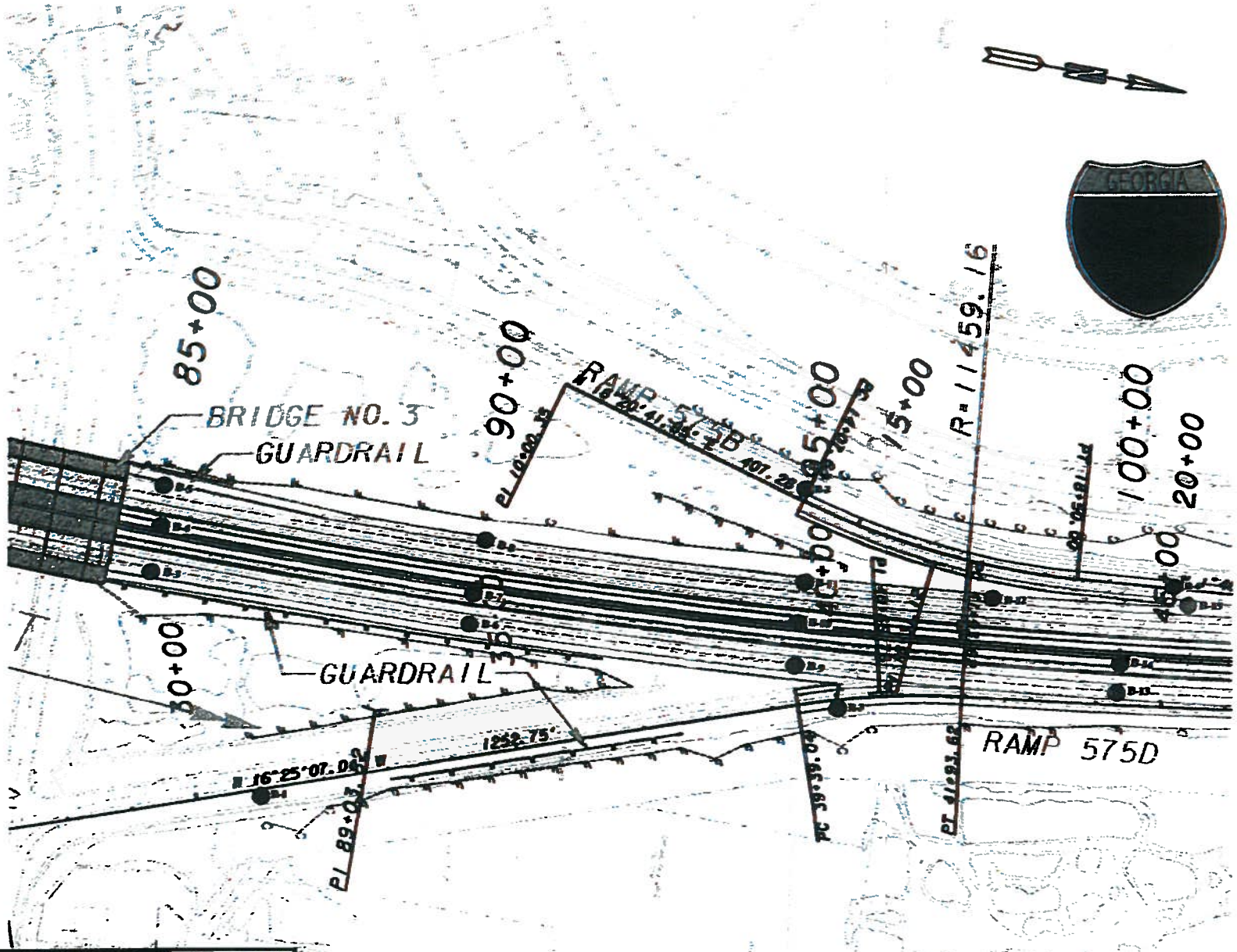

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FIGURE 2-2 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
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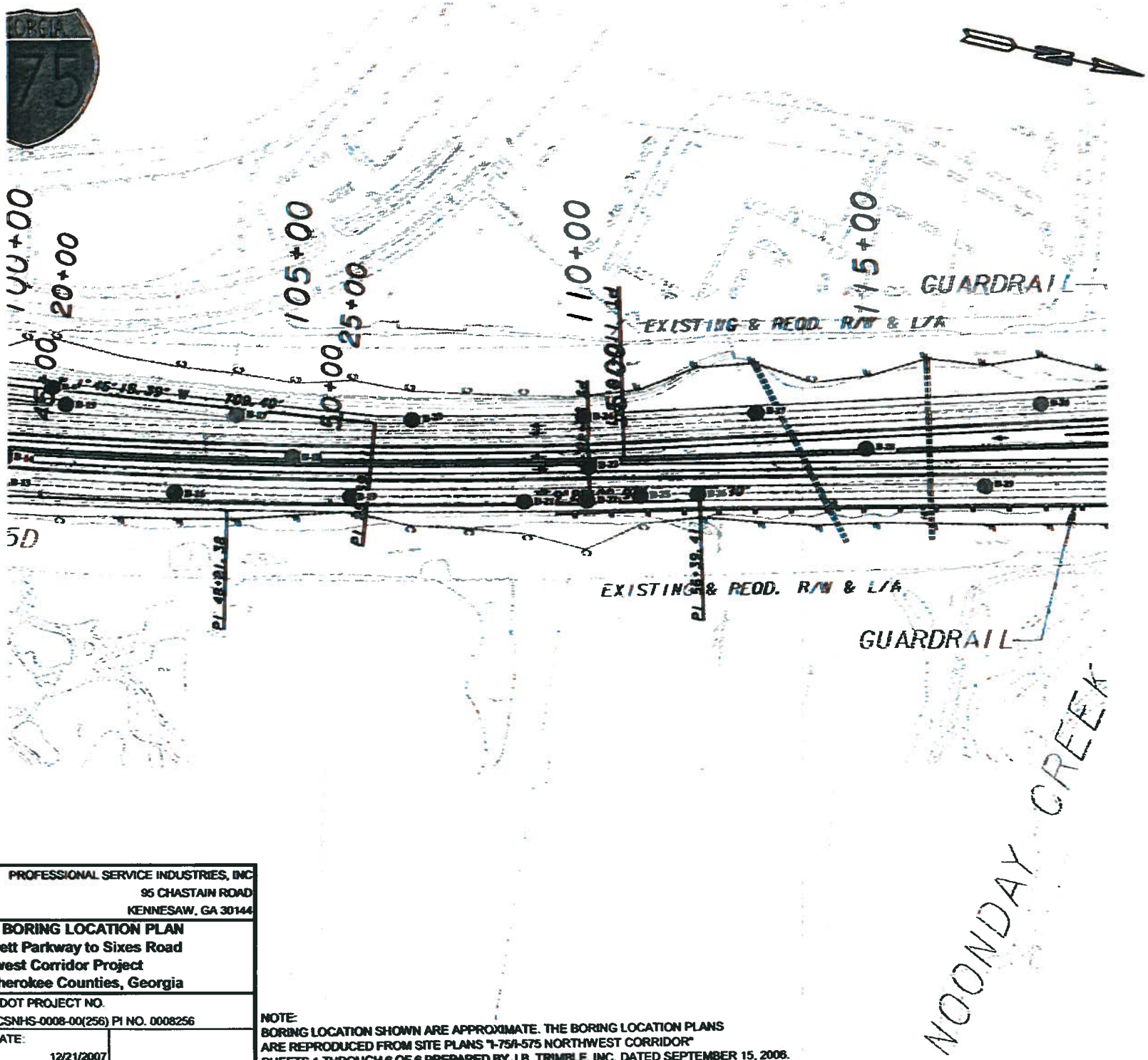

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FIGURE 2-3 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Wilie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
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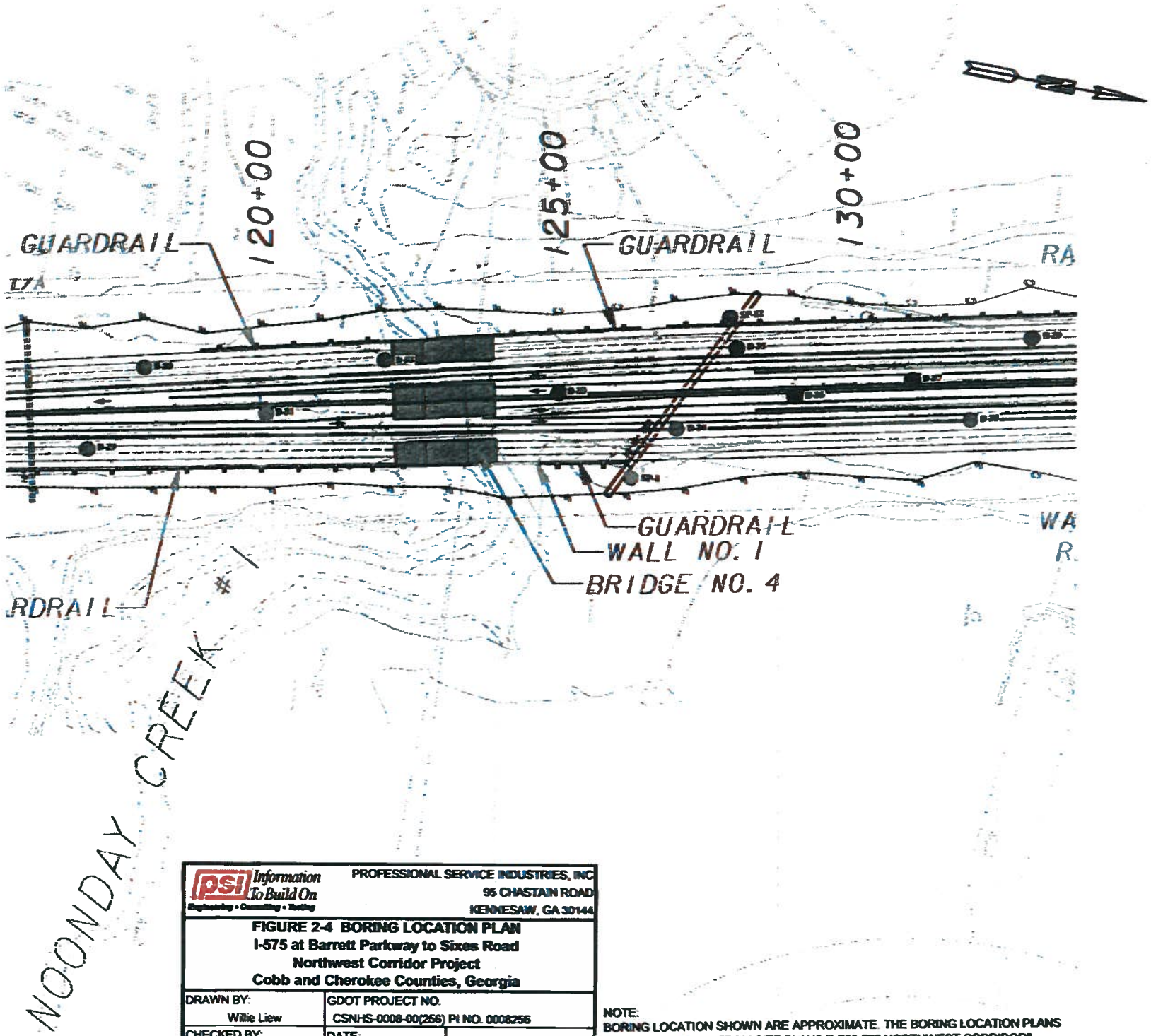

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FIGURE 2-4 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

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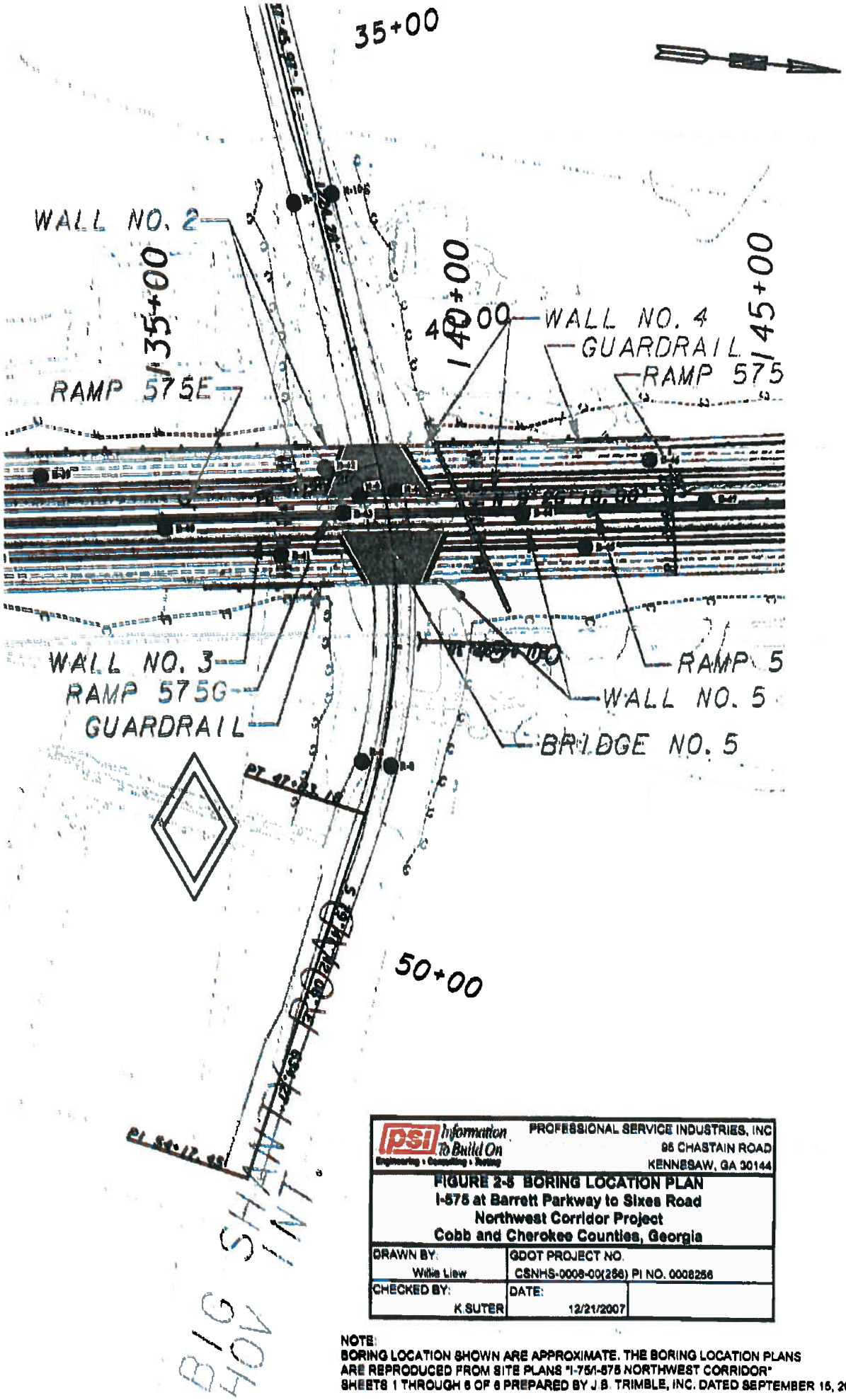

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FIGURE 2-5 BORING LOCATION PLAN **I-575 at Barrett Parkway to Sixes Road** **Northwest Corridor Project** **Cobb and Cherokee Counties, Georgia**	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

NOTE:
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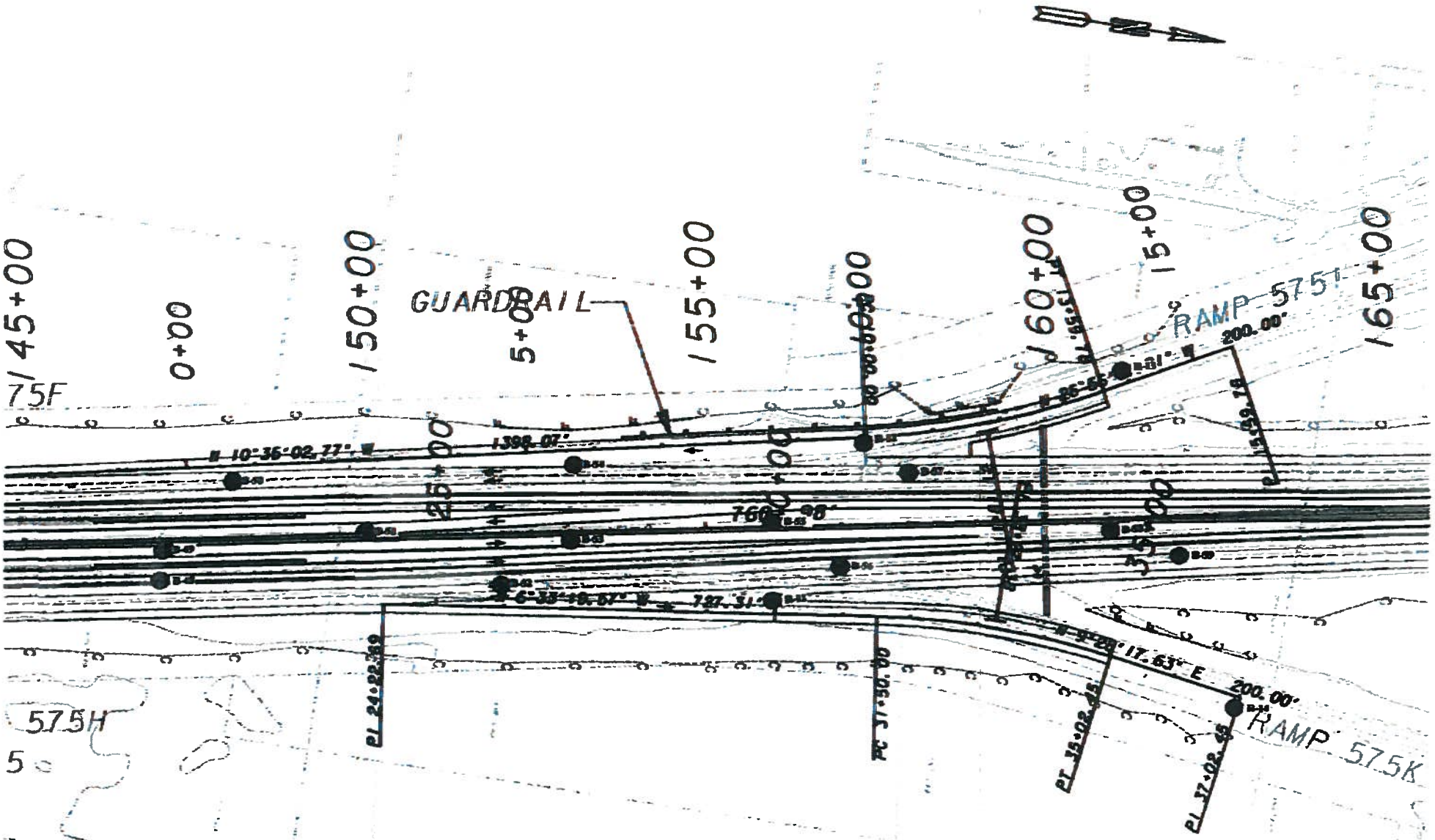

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FIGURE 2-6 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

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CHECKED BY: K.SUTER	DATE. 12/21/2007	

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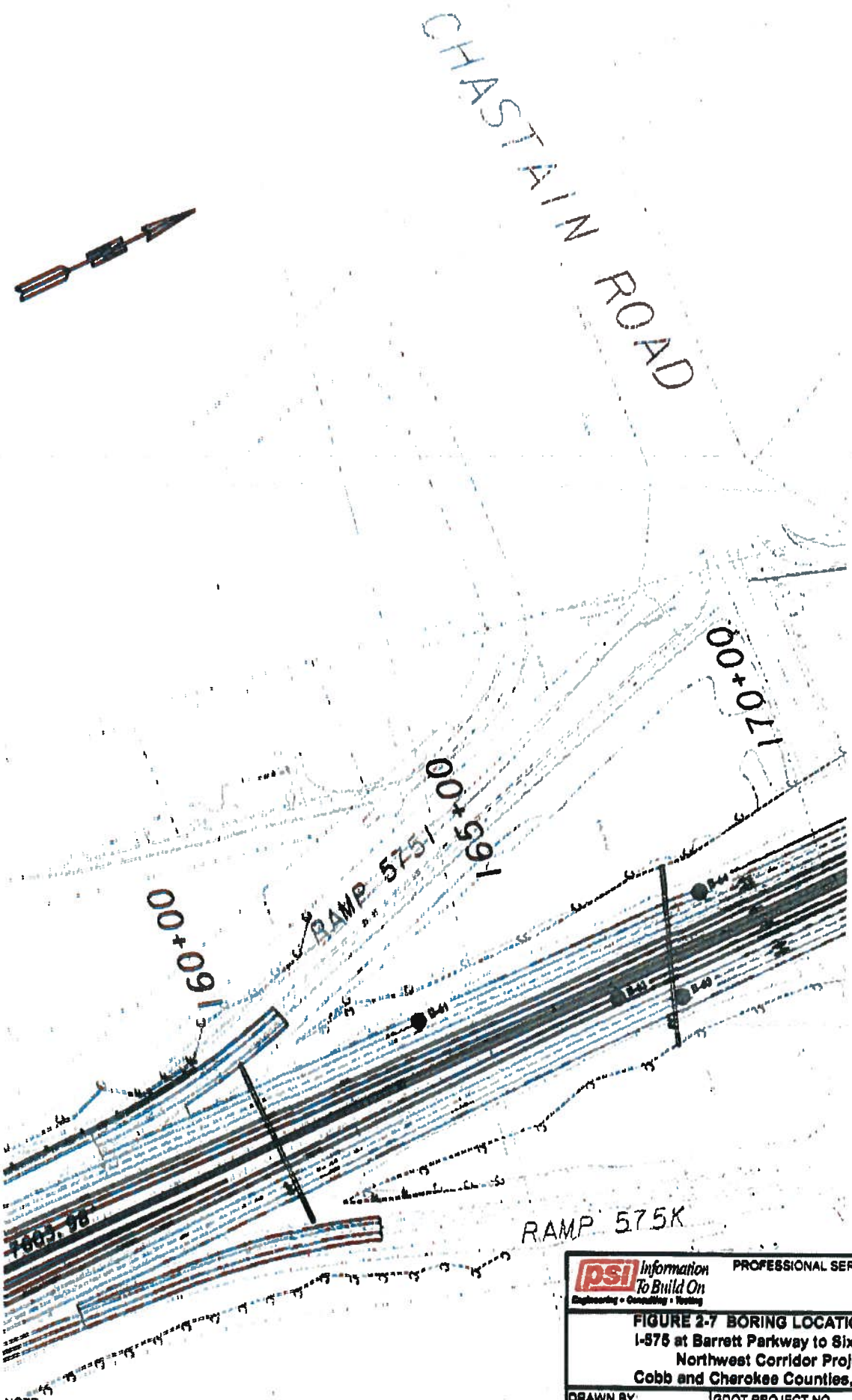

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

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FIGURE 2-7 BORING LOCATION PLAN **I-575 at Barrett Parkway to Sixes Road** **Northwest Corridor Project** **Cobb and Cherokee Counties, Georgia**	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0006256
CHECKED BY: K.SUTER	DATE 12/21/2007

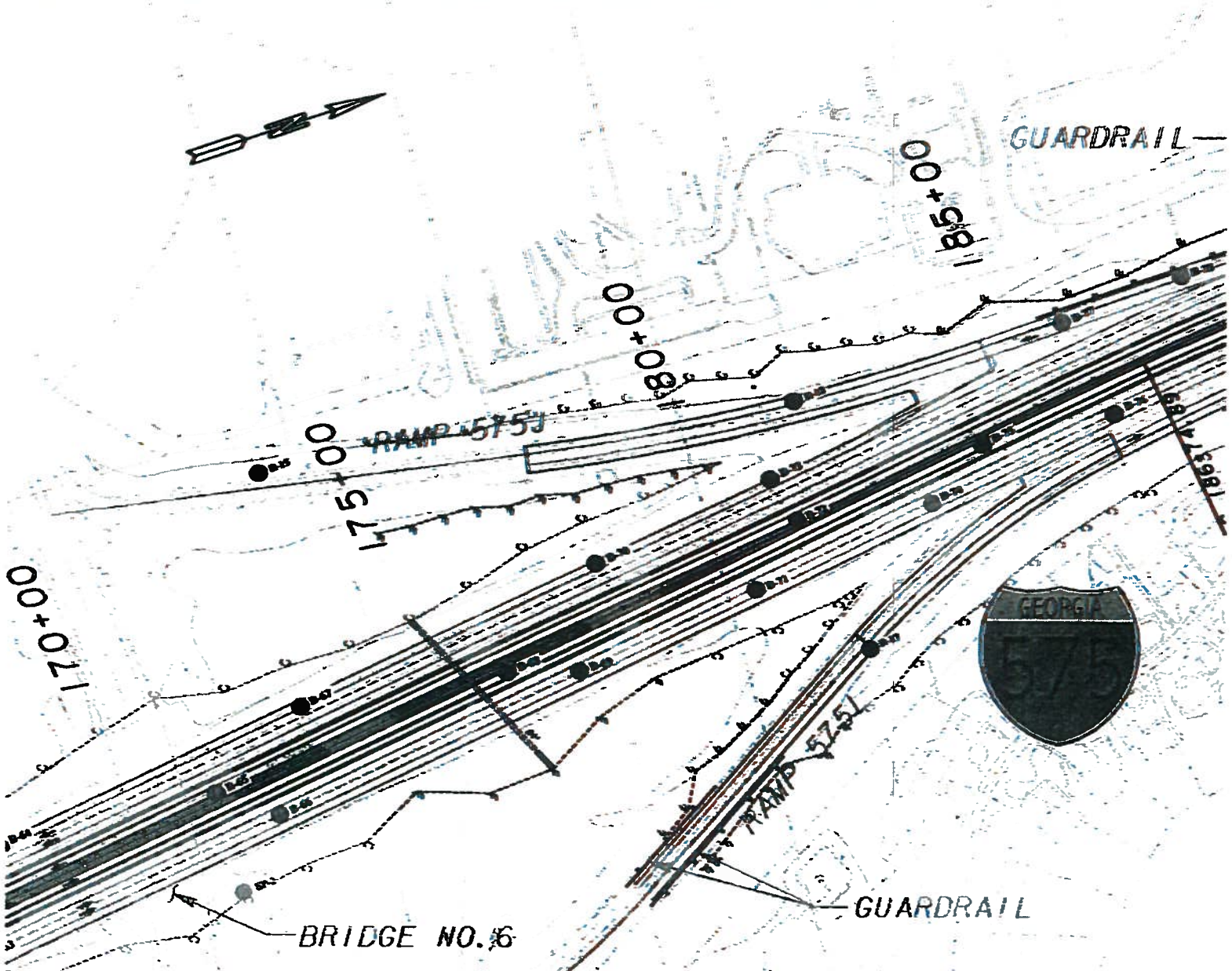

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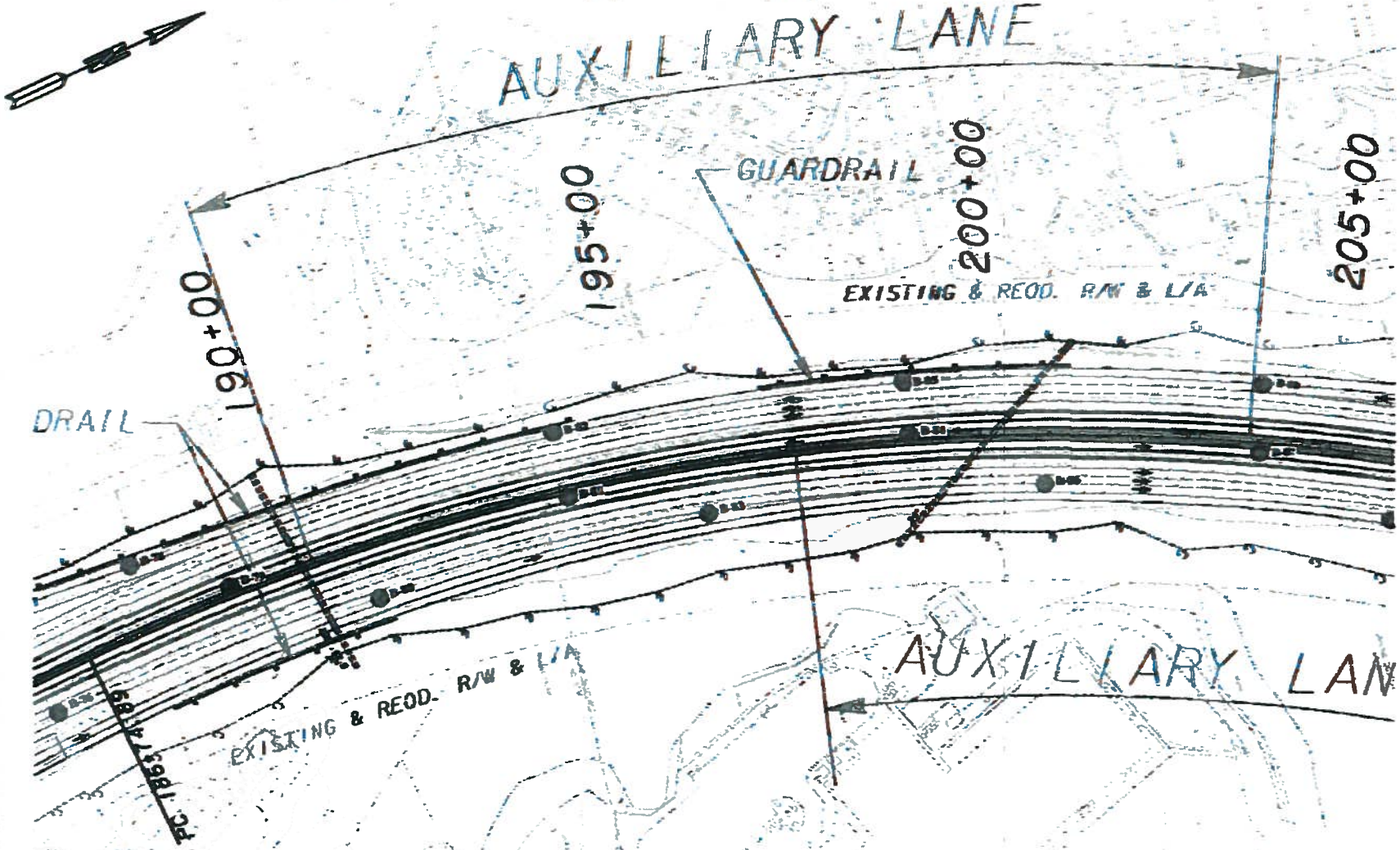
FIGURE 2-8 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144	
FIGURE 2-9 BORING LOCATION PLAN **I-575 at Barrett Parkway to Sixes Road** **Northwest Corridor Project** **Cobb and Cherokee Counties, Georgia**	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

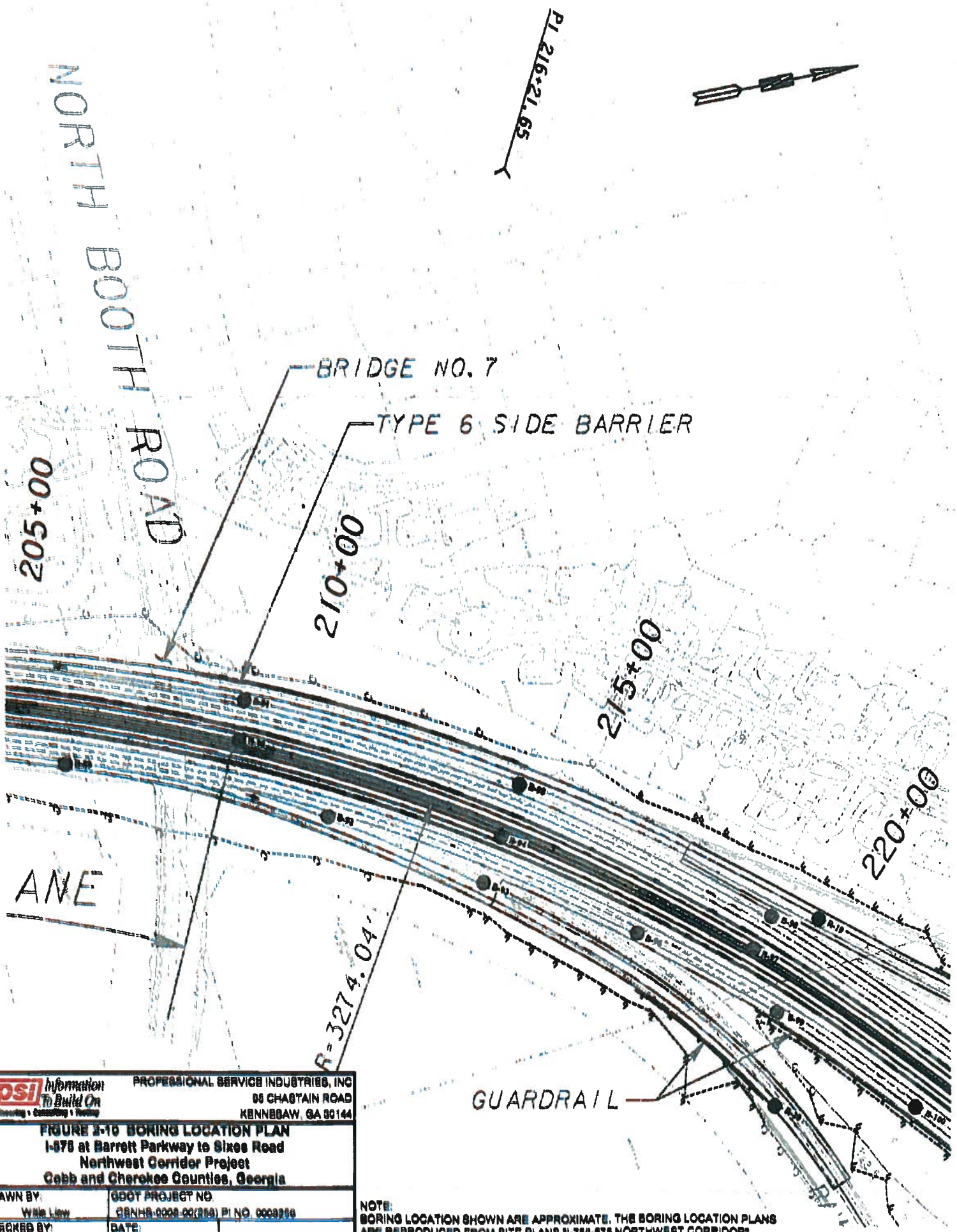


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FIGURE 2-10 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0009-00(258) PI NO. 0009258
CHECKED BY: K SUTER	DATE: 12/21/2007

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

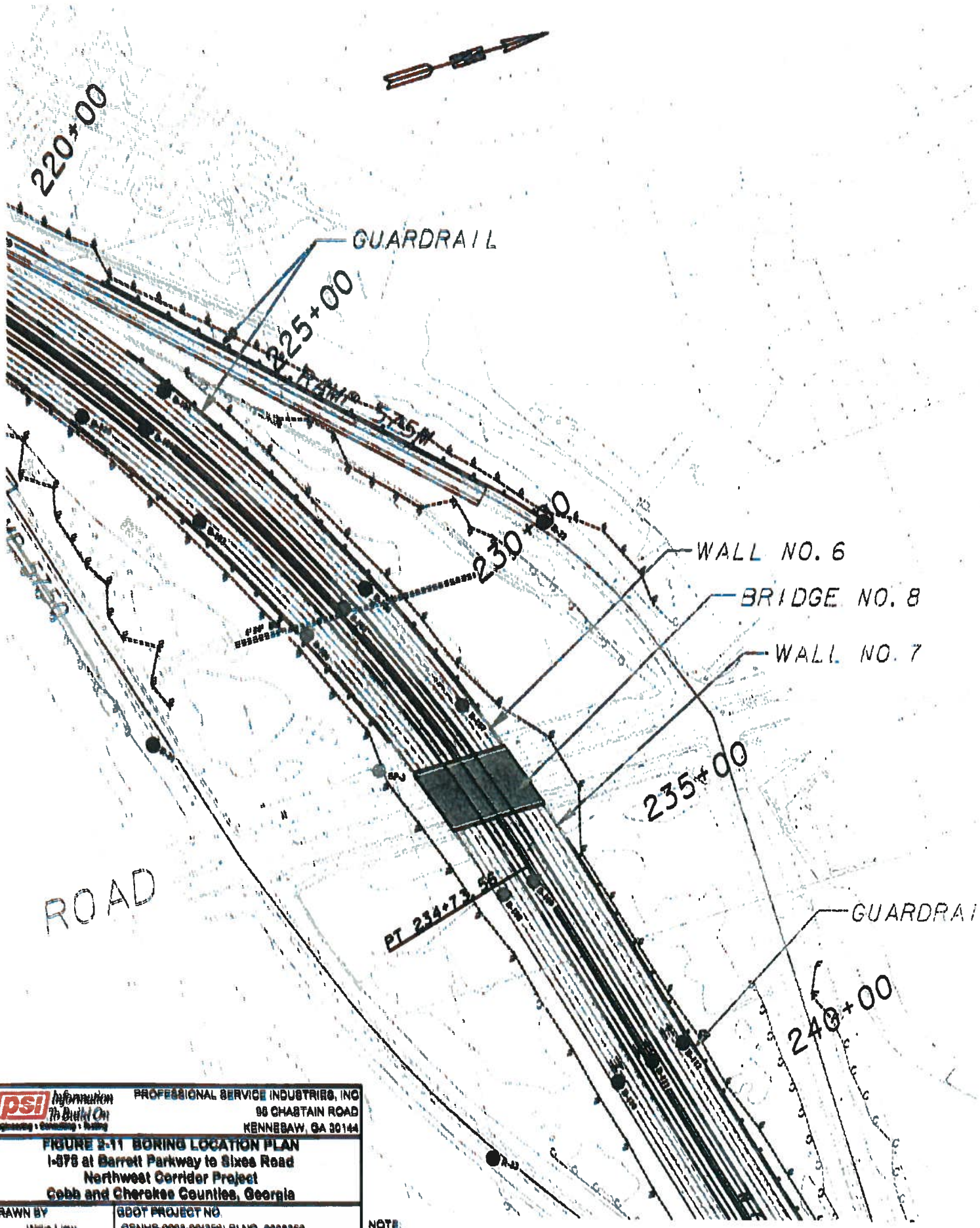

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FIGURE 2-11 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Law	GDOT PROJECT NO: CSNHS-0008-00(258) PI NO. 0008258
CHECKED BY: K.BUTER	DATE: 12/21/2007

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

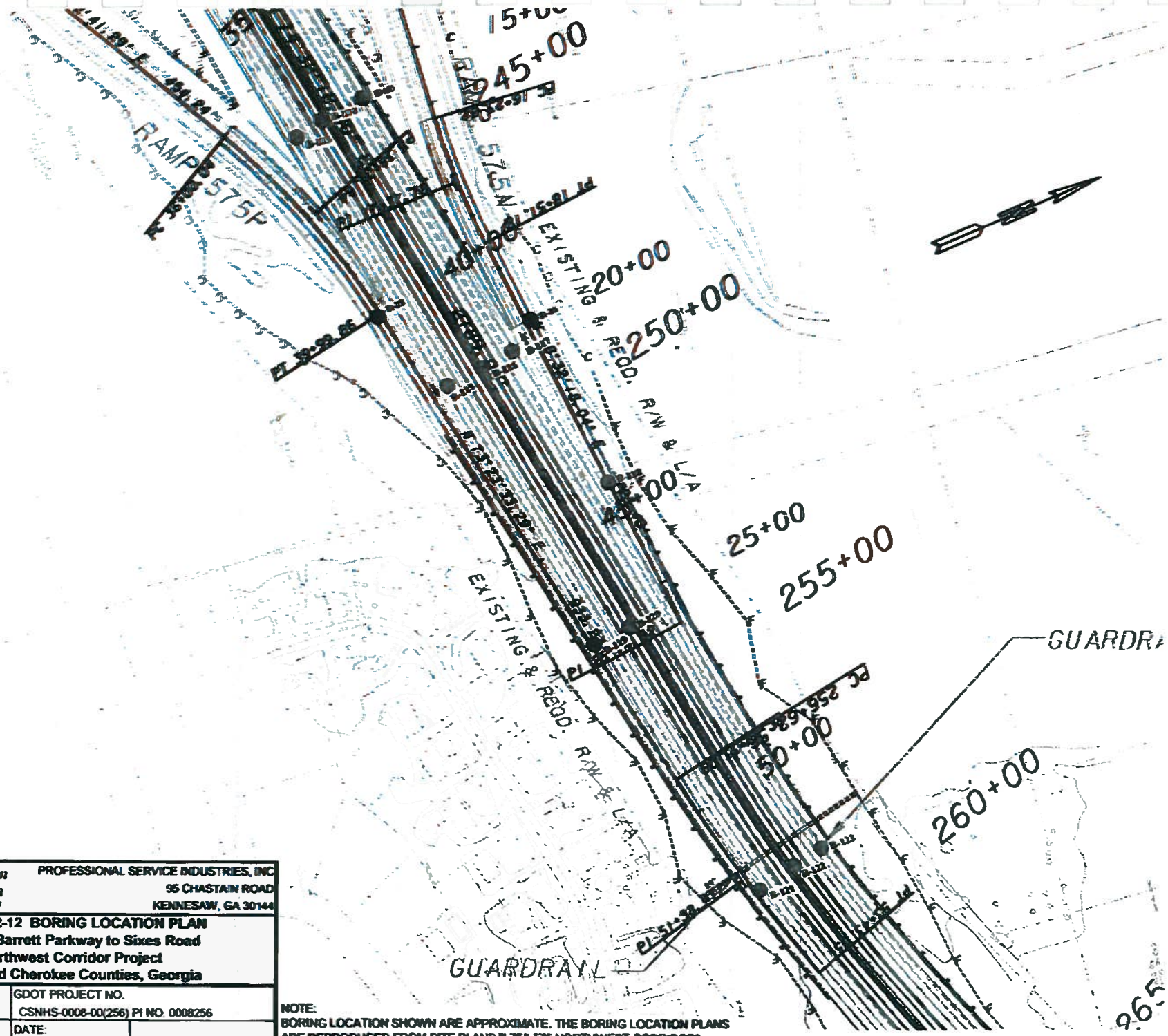

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FIGURE 2-12 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

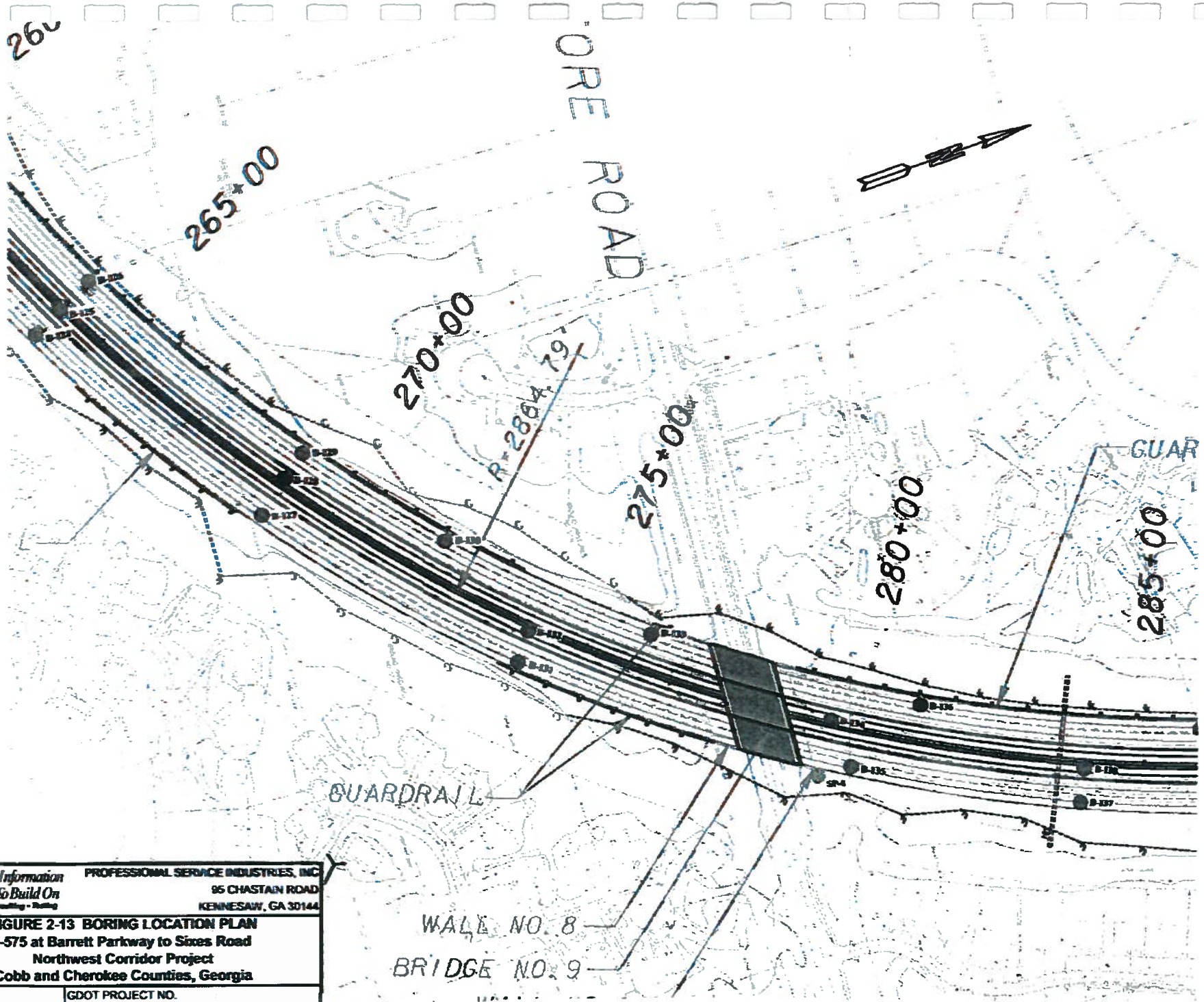

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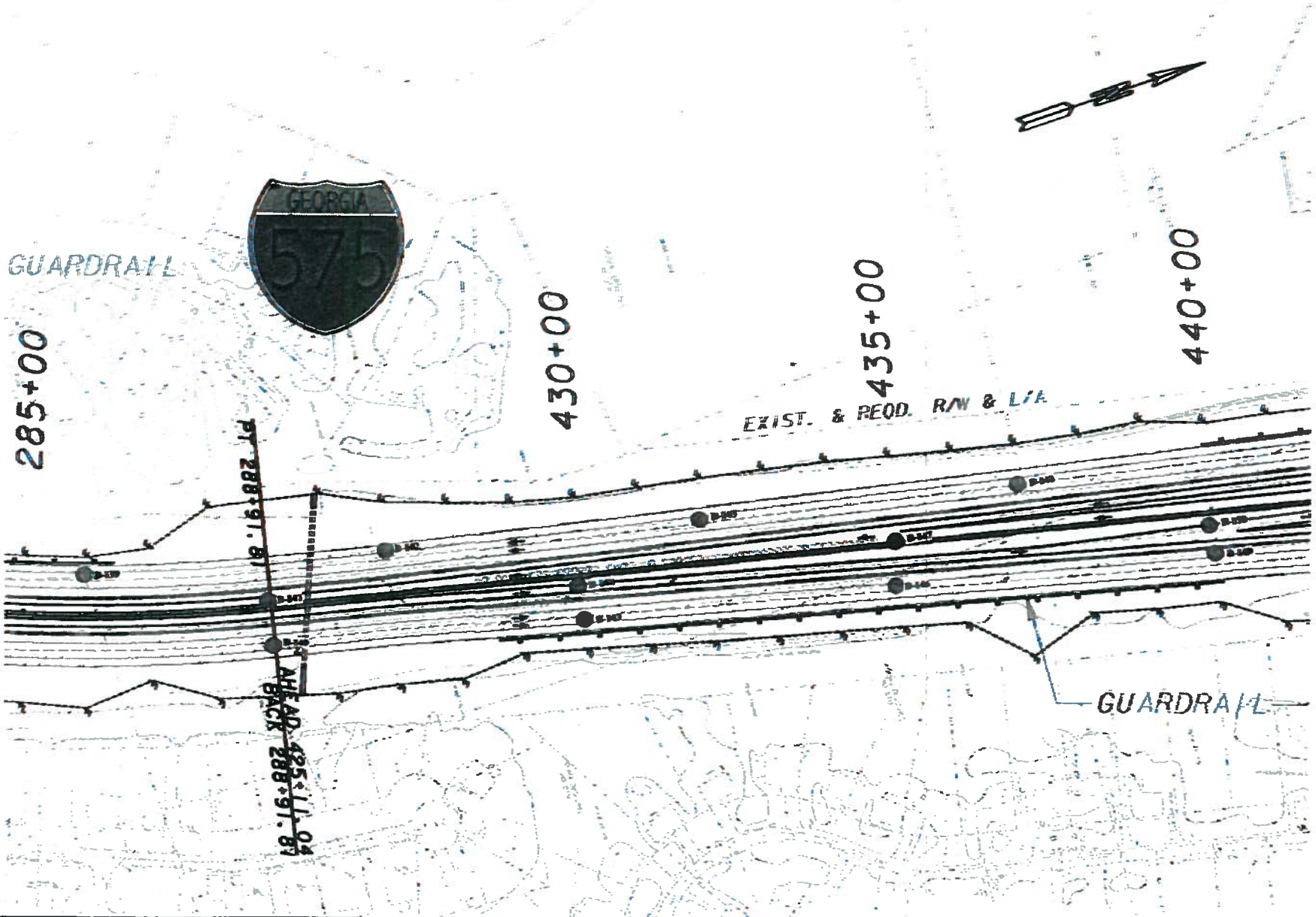
FIGURE 2-13 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



psi Information To Build On — Engineering • Consulting • Testing	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144

FIGURE 2-14 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

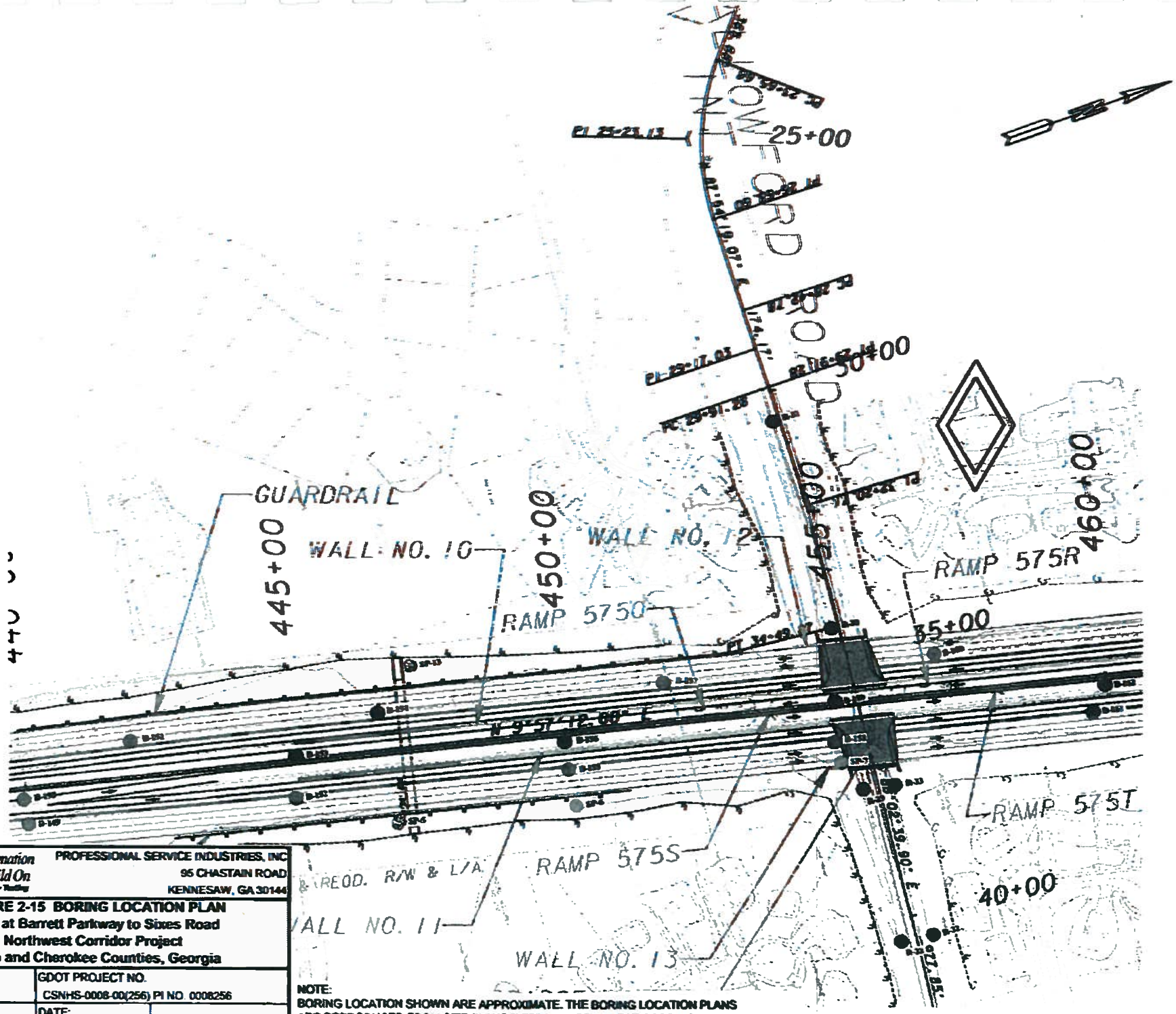


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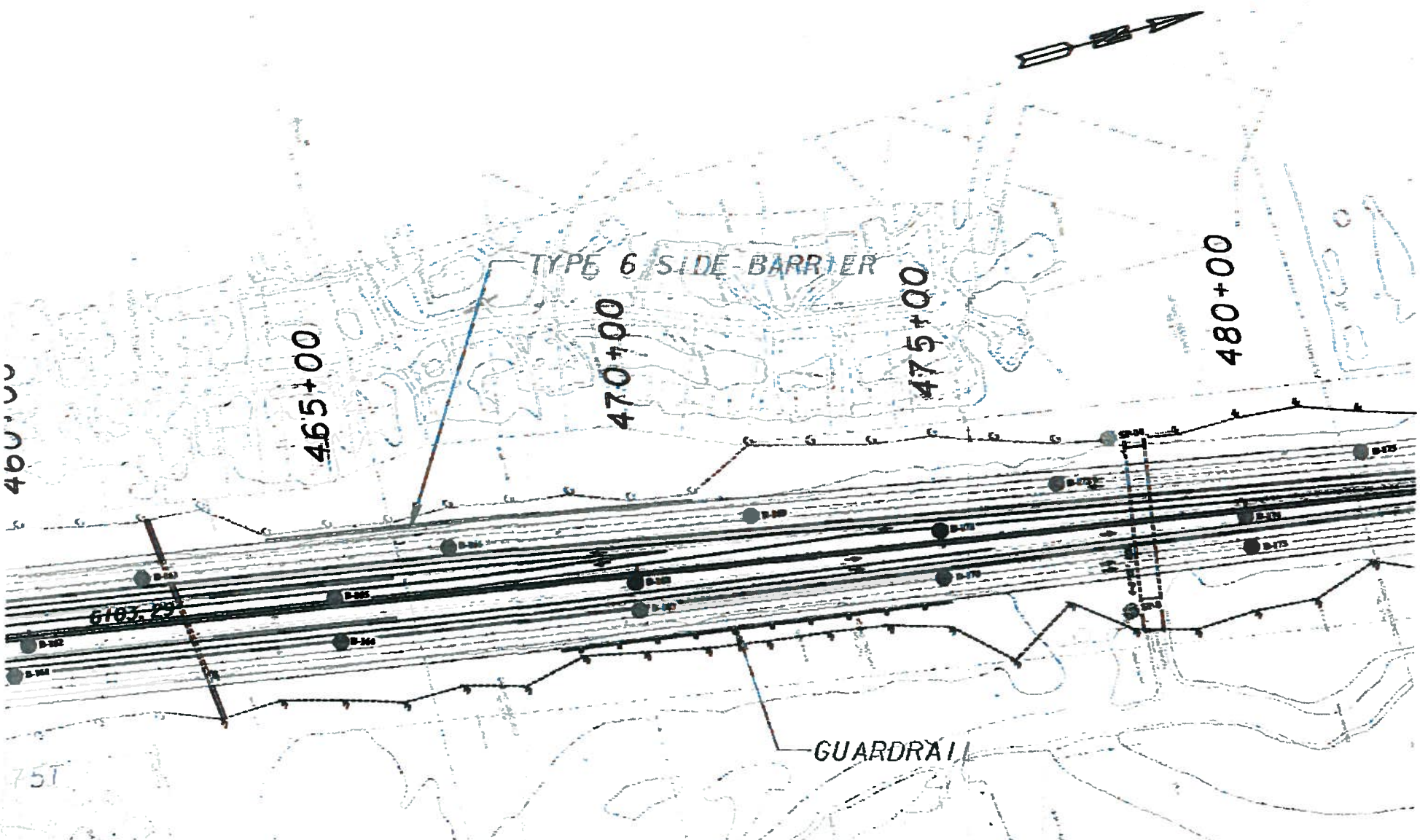
FIGURE 2-15 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



psi Information To Build On	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144

FIGURE 2-16 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2008.

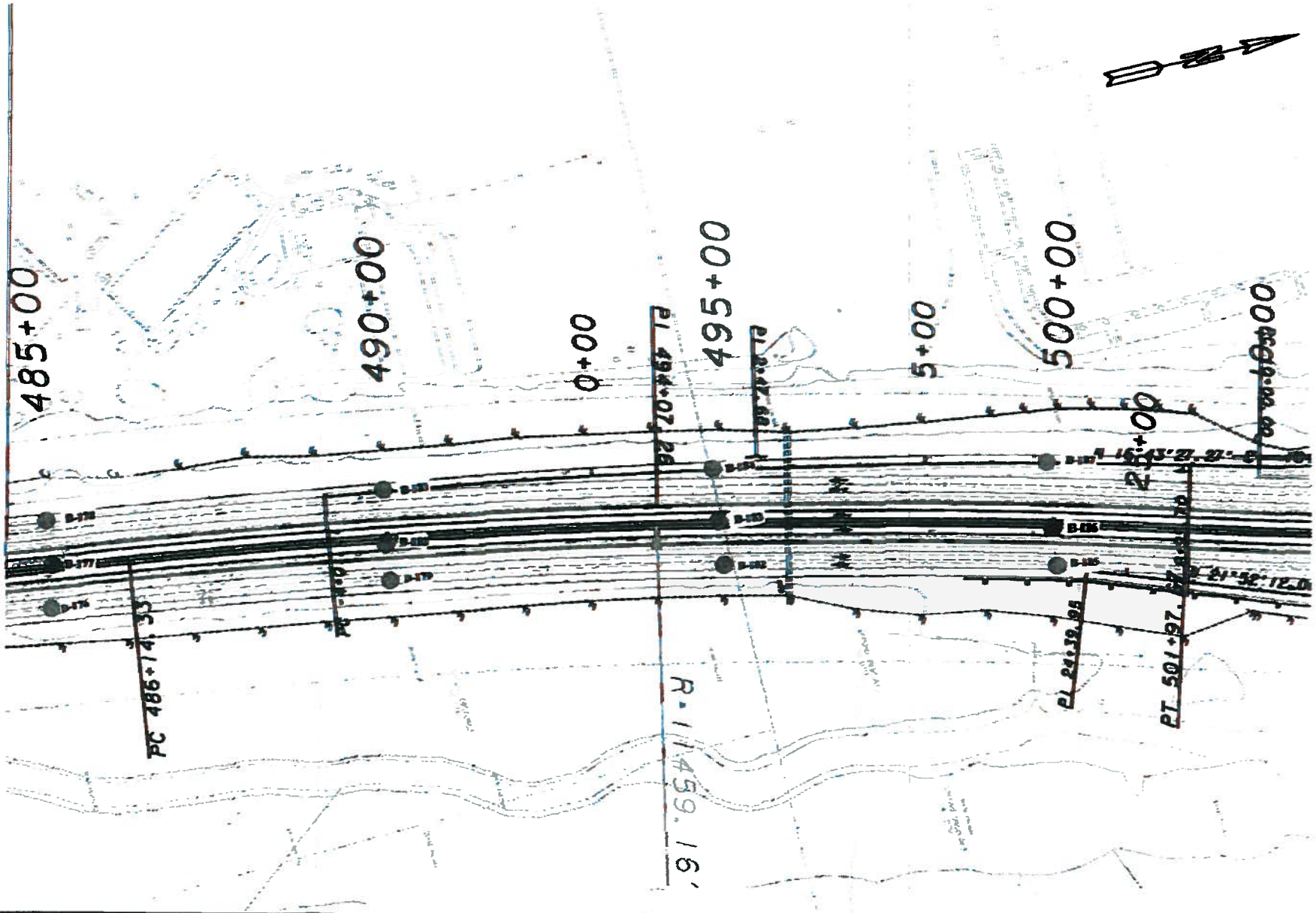


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FIGURE 2-17 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

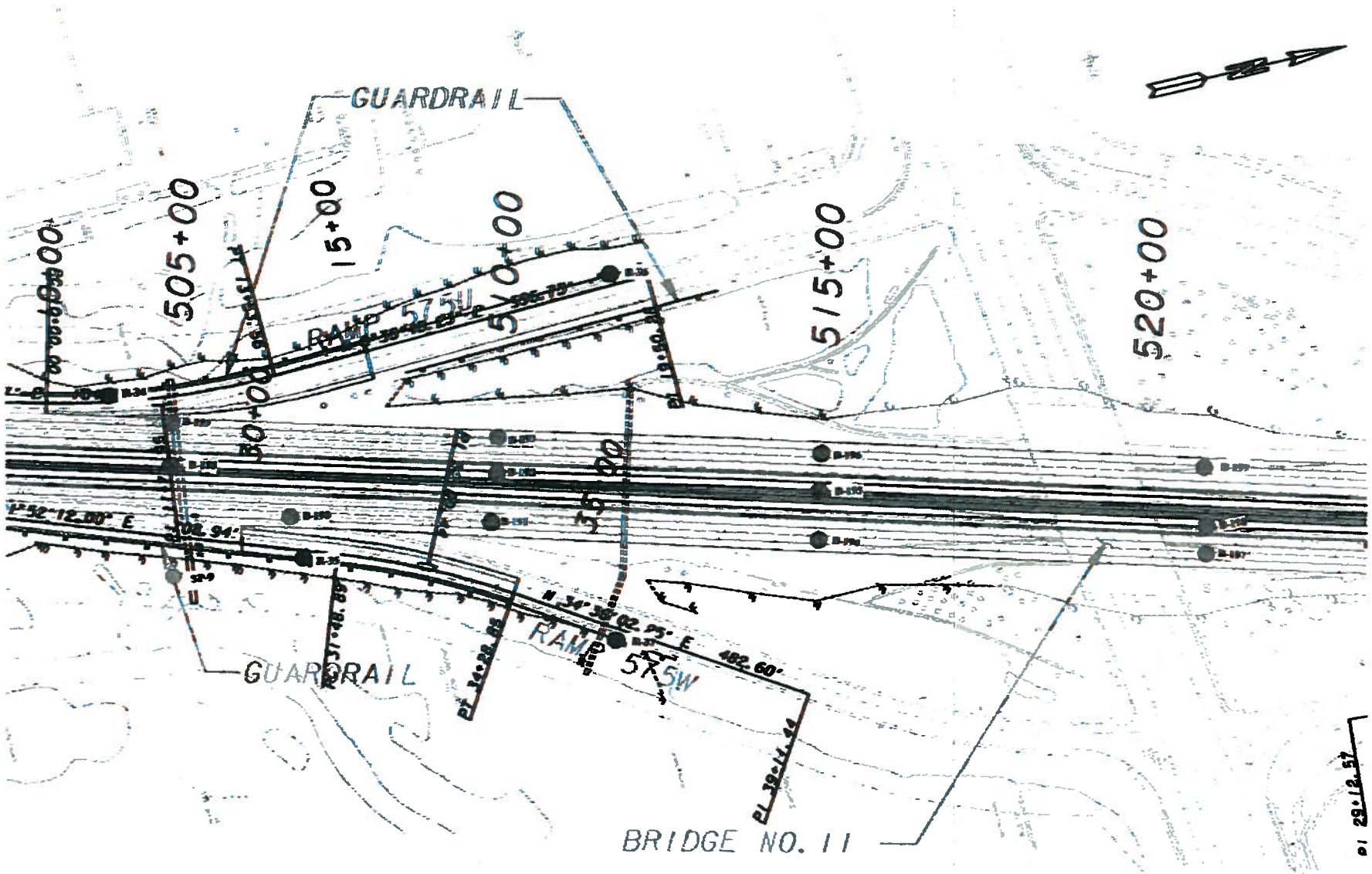

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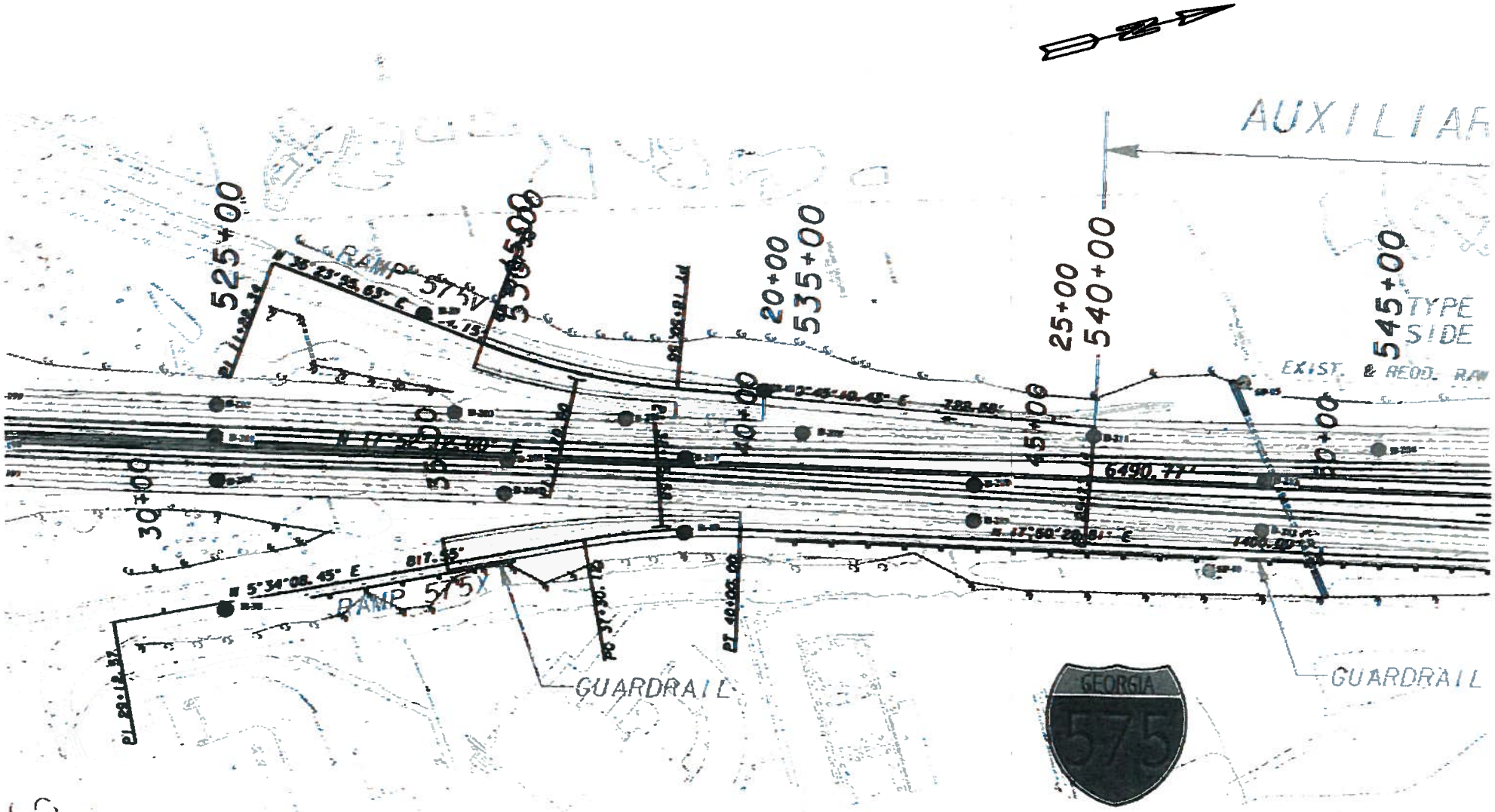
FIGURE 2-18 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

SR 6



SR 92

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

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FIGURE 2-19 BORING LOCATION PLAN I-575 at Barrett Parkway to Sixes Road Northwest Corridor Project Cobb and Cherokee Counties, Georgia	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

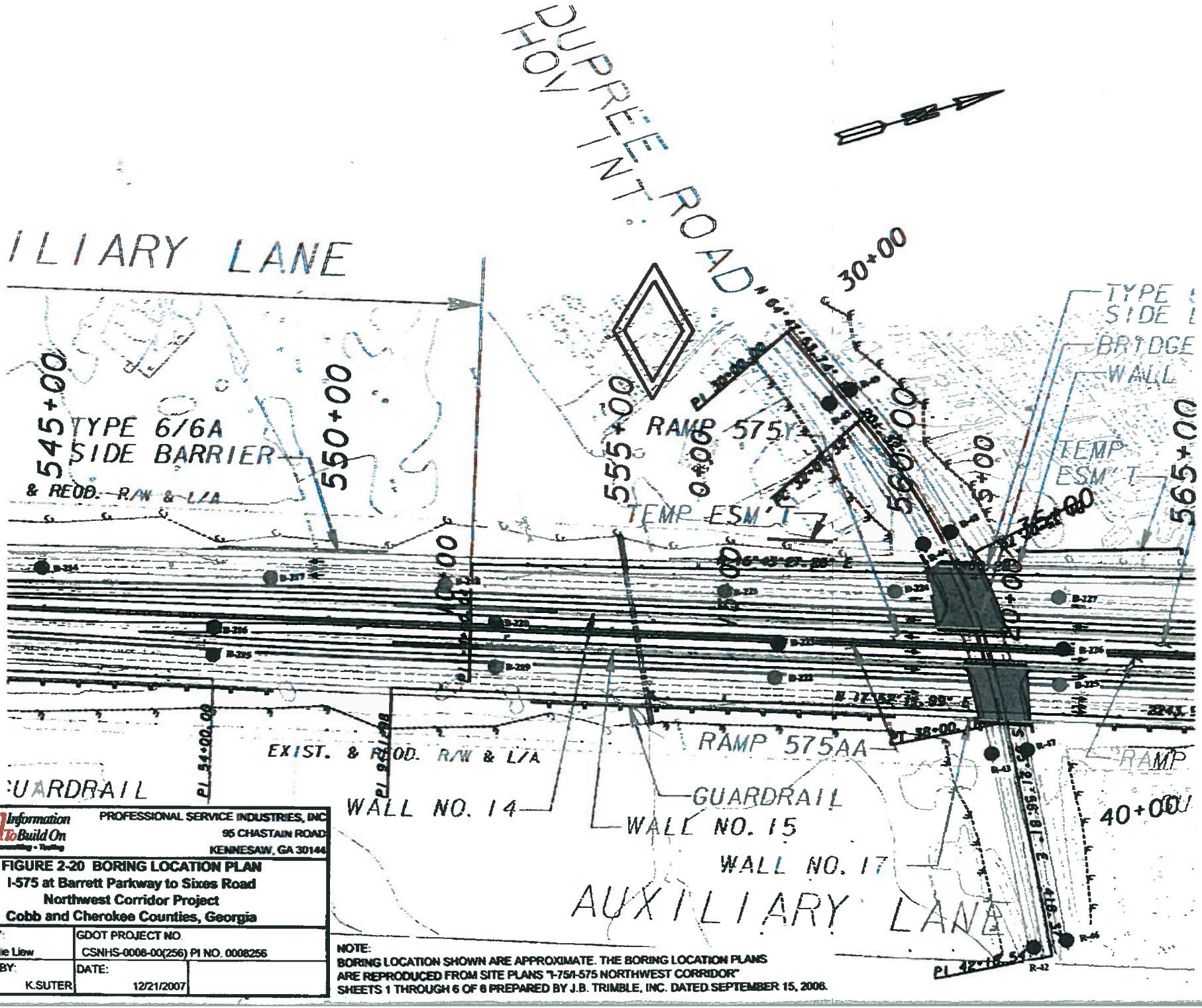

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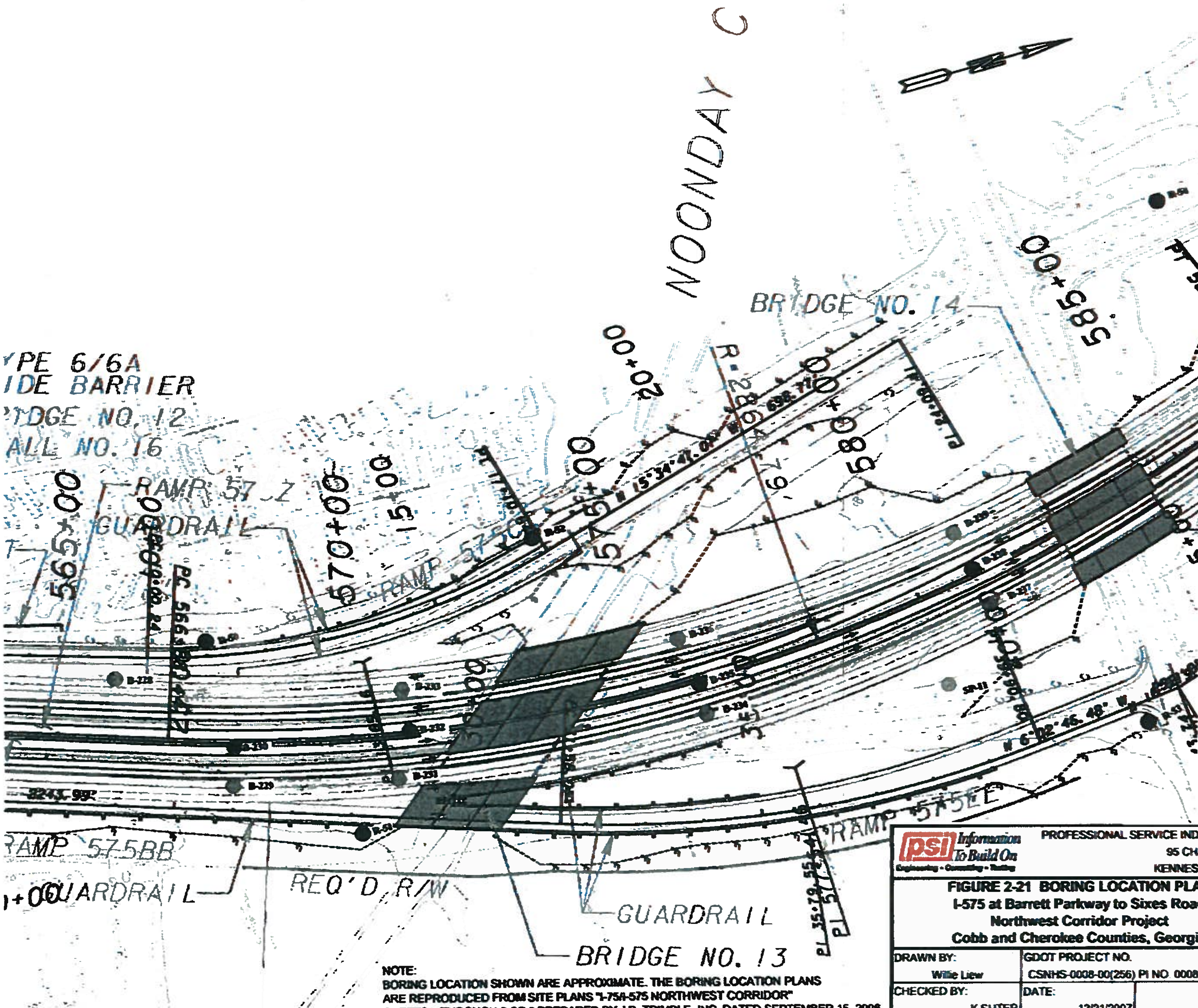
FIGURE 2-20 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 8 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

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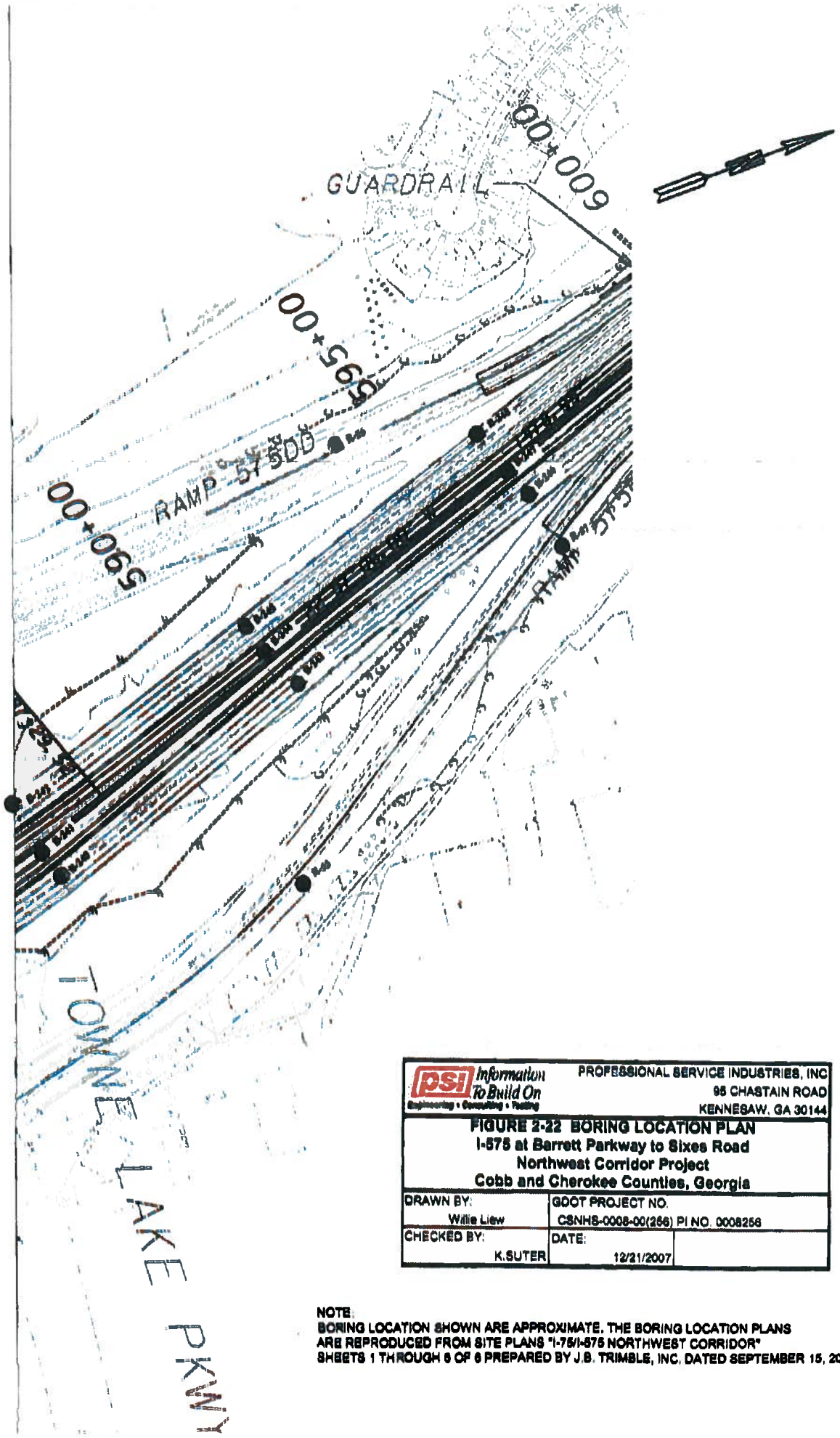
KENNESAW, GA 30144

FIGURE 2-21 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY:	GDOT PROJECT NO.	
Willie Liew	CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY:	DATE:	
K SUTER	12/21/2007	

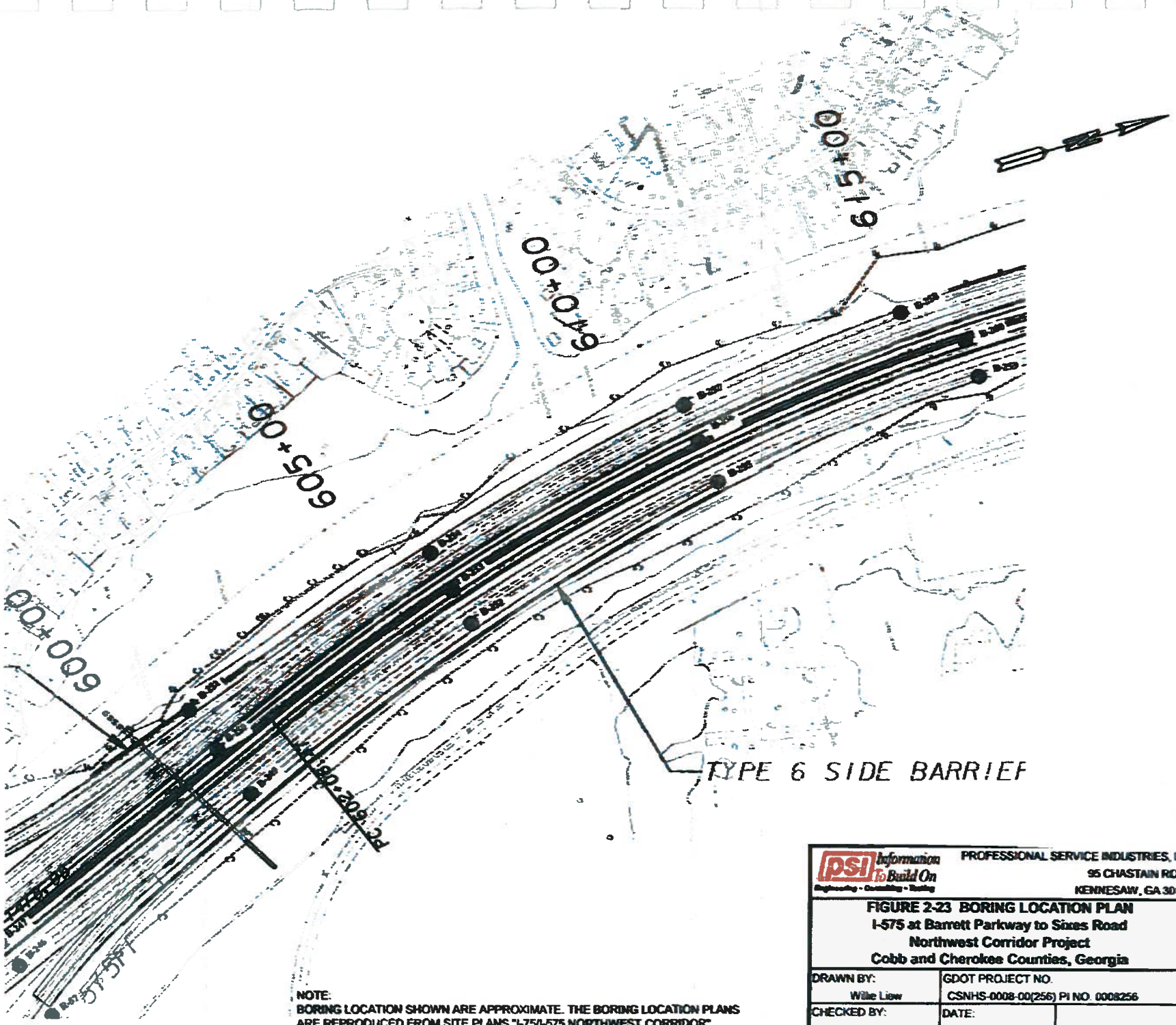


psi Information To Build On — Engineering • Consulting • Testing	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144

FIGURE 2-22 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256)	PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

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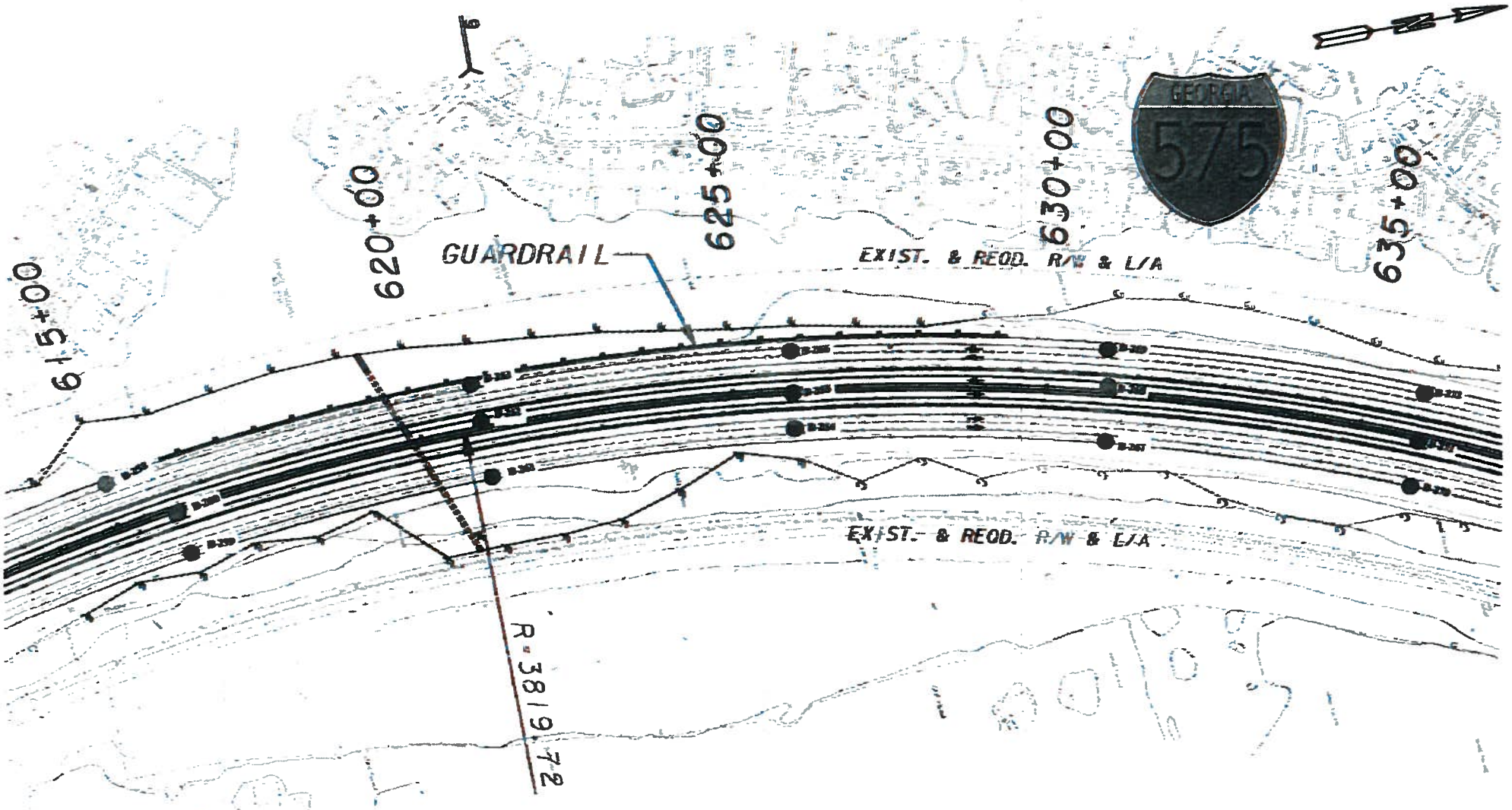
FIGURE 2-23 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K SUTER	DATE: 12/21/2007	

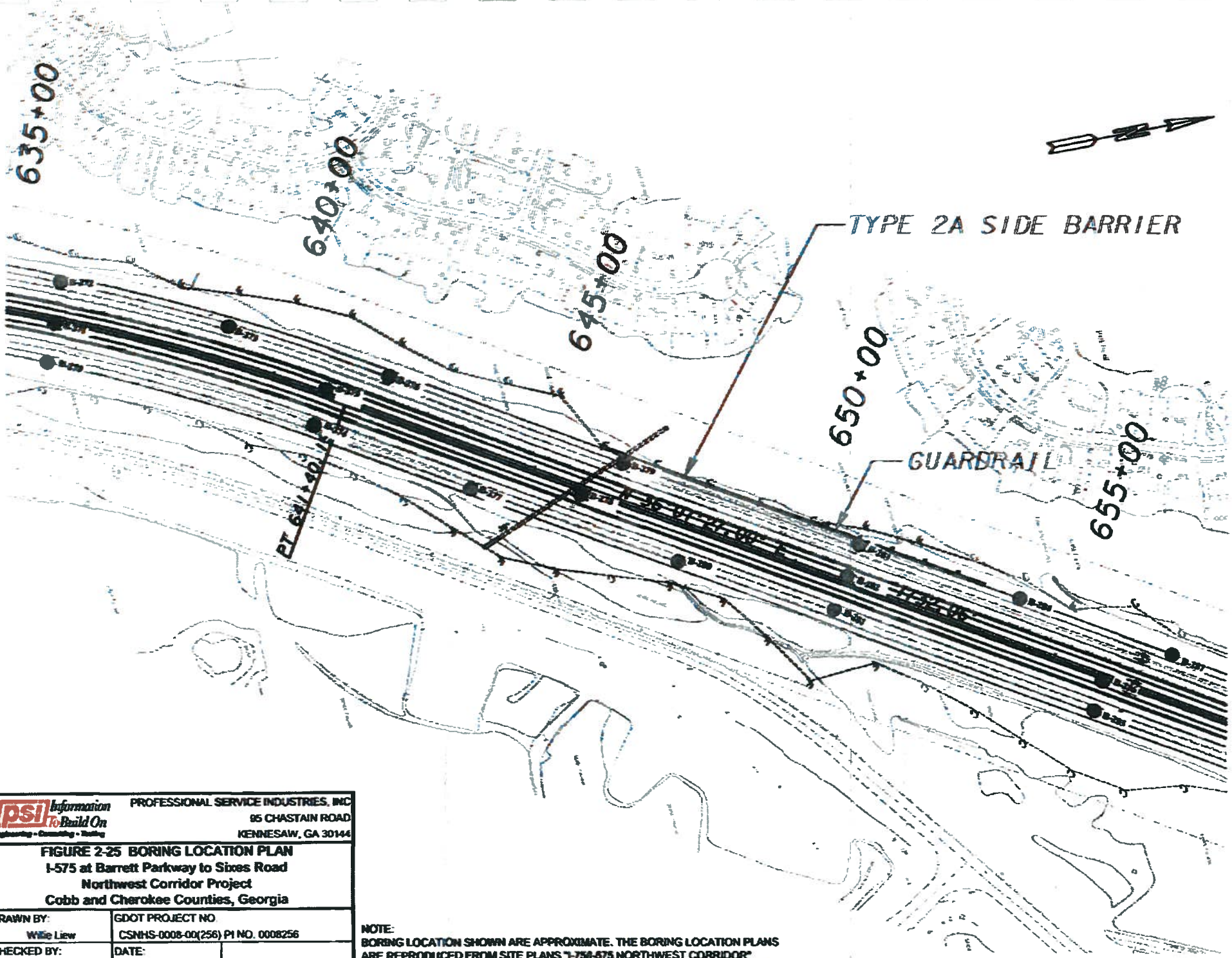


psi Information To Build On Engineering • Consulting • Testing	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144

FIGURE 2-24 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



psi Information To Build On — Engineering • Consulting • Testing	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144

FIGURE 2-25 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC DATED SEPTEMBER 15, 2006.

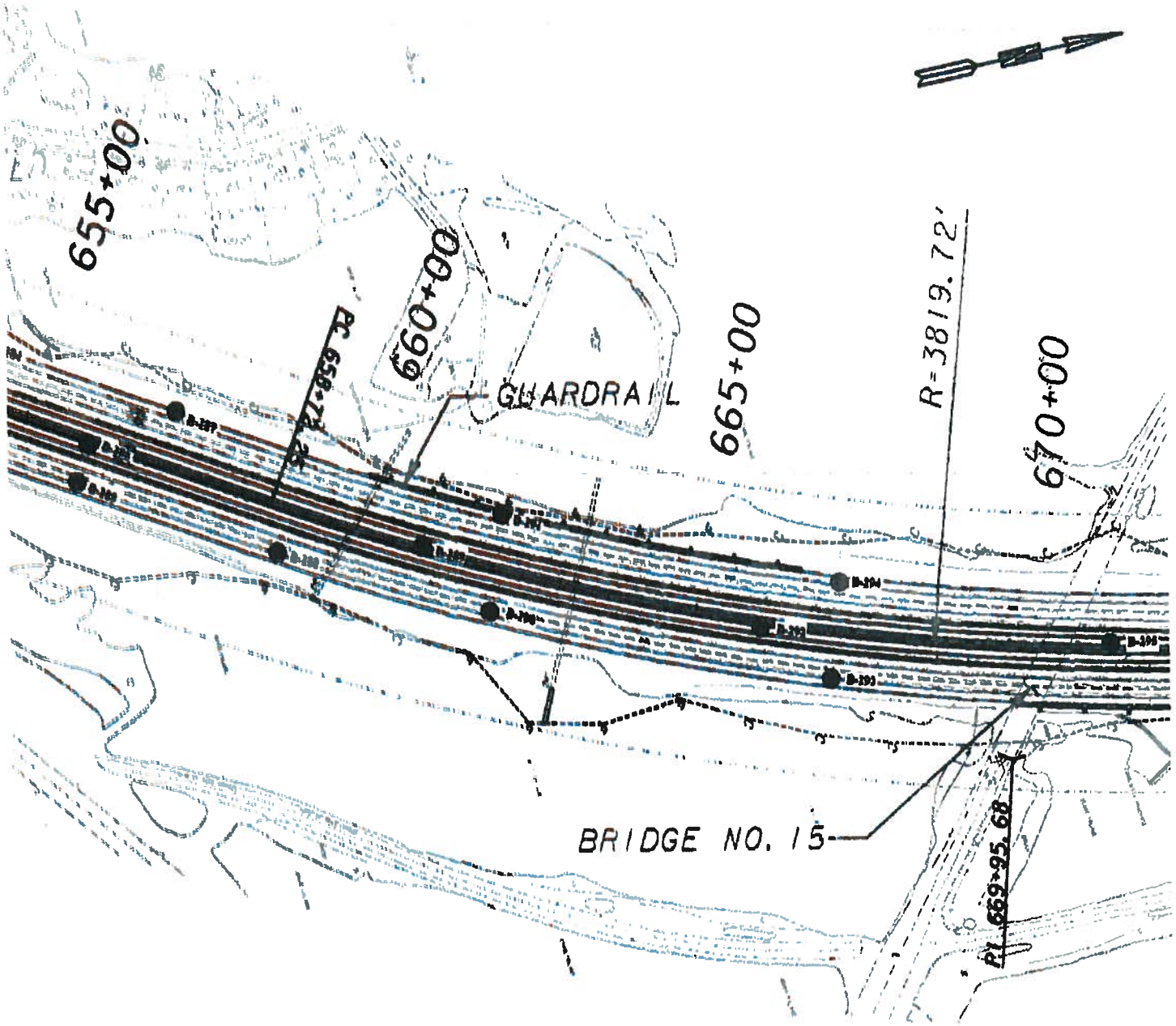


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FIGURE 2-26 BORING LOCATION PLAN **I-575 at Barrett Parkway to Sixes Road** **Northwest Corridor Project** **Cobb and Cherokee Counties, Georgia**	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

E. MILL ROAD
(SIBLE) NEW SOV INT.

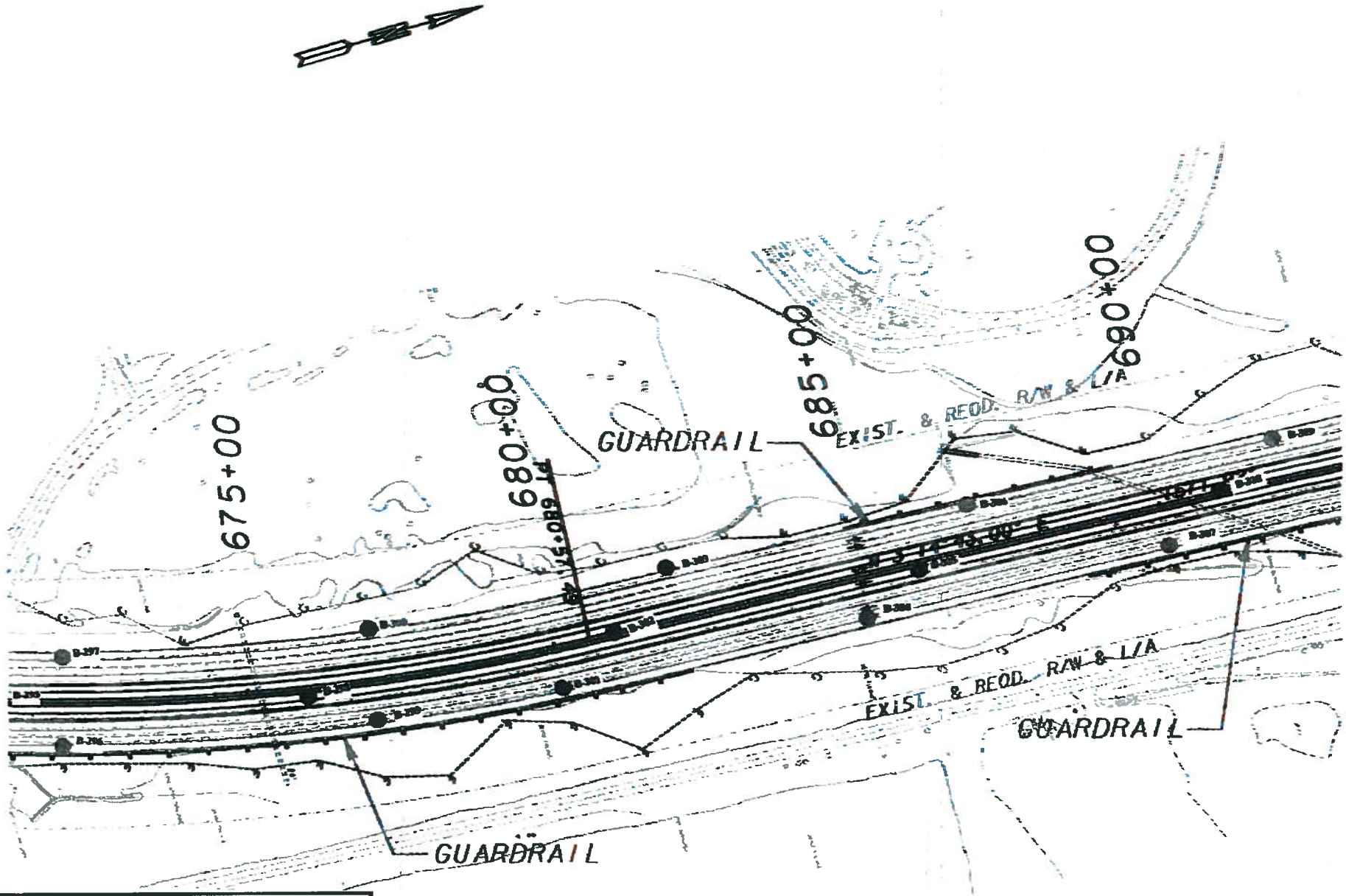

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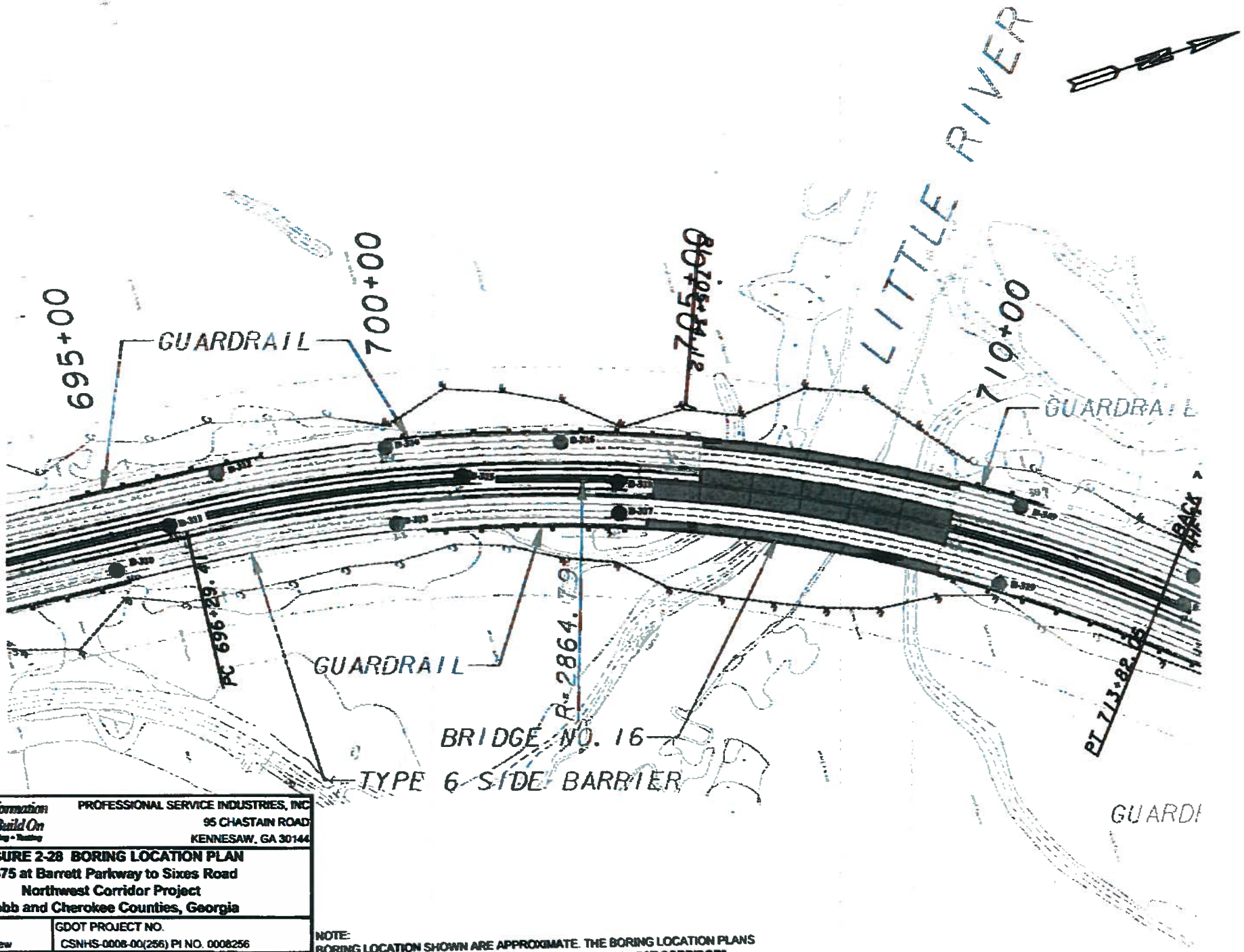
FIGURE 2-27 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



PROFESSIONAL SERVICE INDUSTRIES, INC
95 CHASTAIN ROAD
KENNESAW, GA 30144

FIGURE 2-28 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

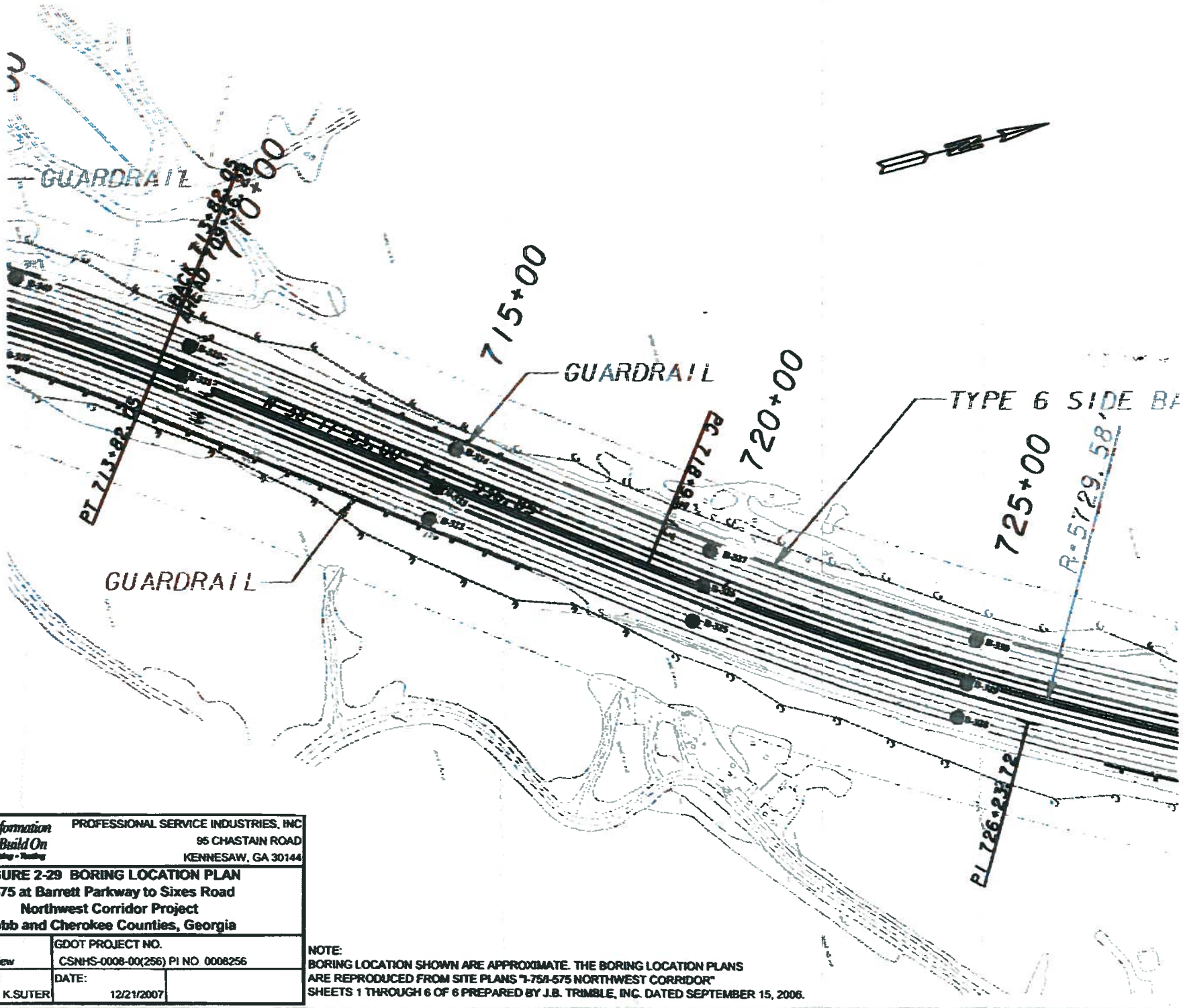


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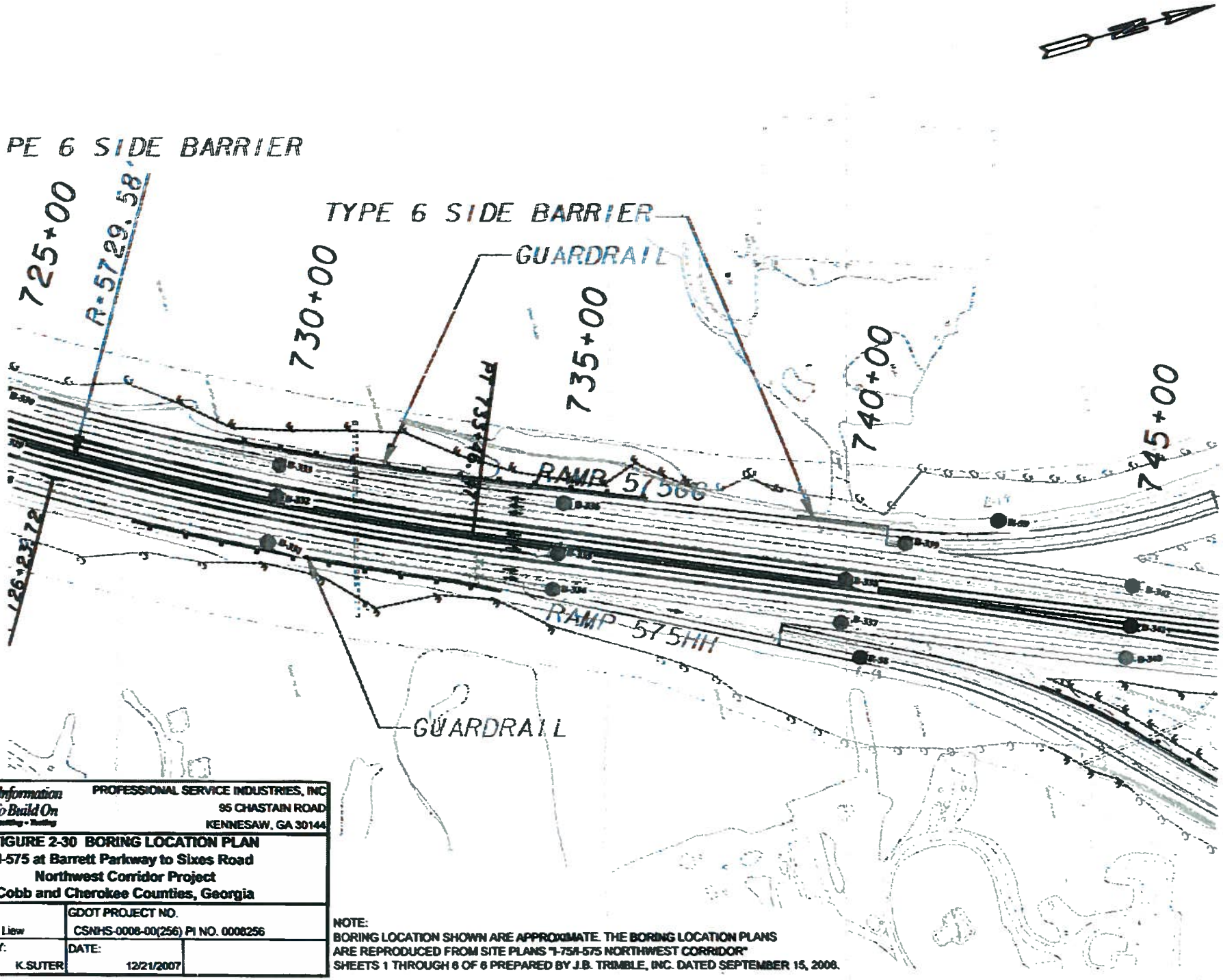
FIGURE 2-29 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

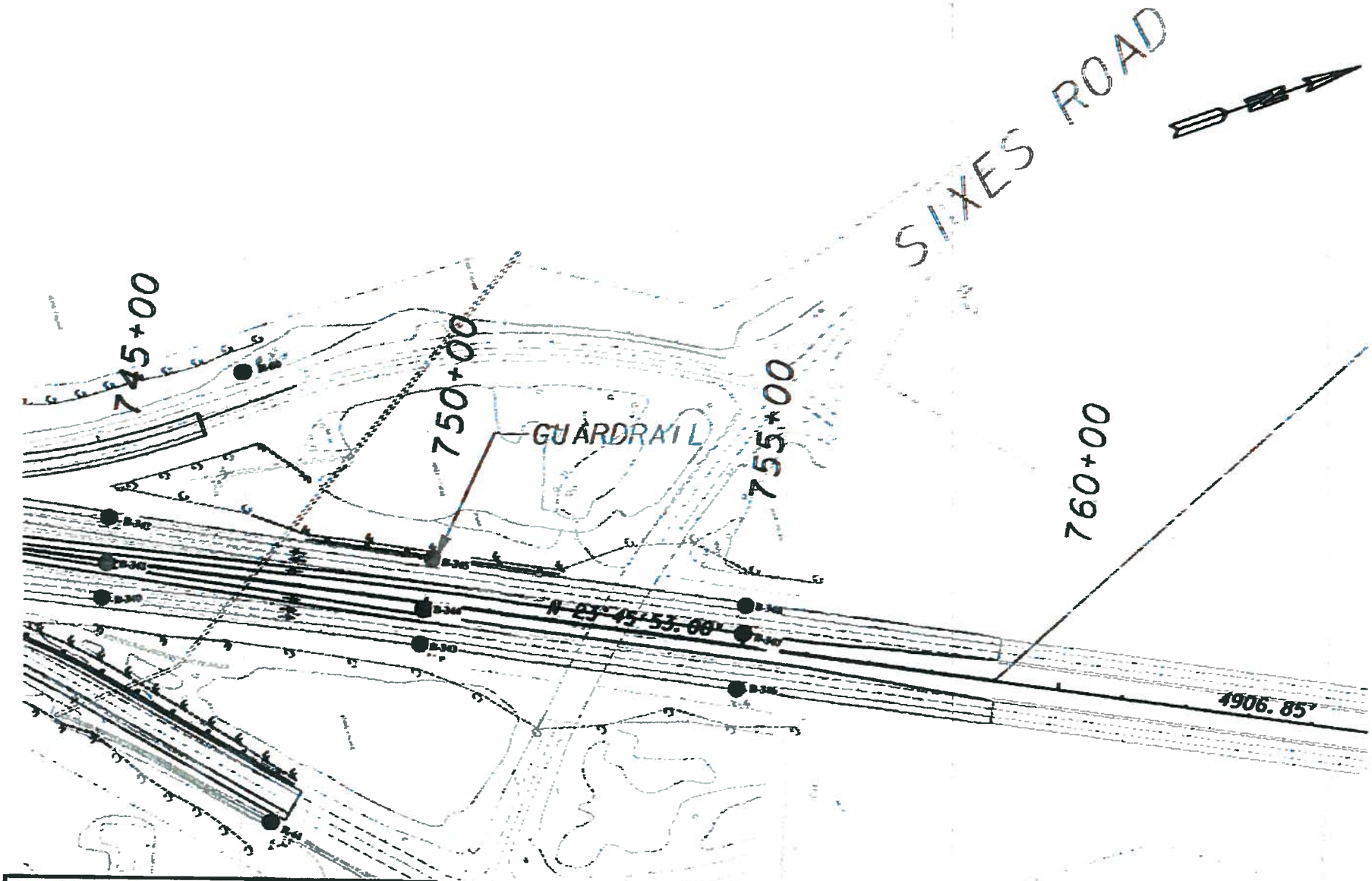


psi Information To Build On Engineering - Consulting - Testing	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144

FIGURE 2-30 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.



PROFESSIONAL SERVICE INDUSTRIES, INC.
95 CHASTAIN ROAD
KENNESAW, GA 30144

FIGURE 2-31 BORING LOCATION PLAN
I-575 at Barrett Parkway to Sixes Road
Northwest Corridor Project
Cobb and Cherokee Counties, Georgia

DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNHS-0008-00(256) PI NO. 0008256	
CHECKED BY: K.SUTER	DATE: 12/21/2007	

NOTE:
BORING LOCATION SHOWN ARE APPROXIMATE. THE BORING LOCATION PLANS ARE REPRODUCED FROM SITE PLANS "I-75/I-575 NORTHWEST CORRIDOR" SHEETS 1 THROUGH 6 OF 6 PREPARED BY J.B. TRIMBLE, INC. DATED SEPTEMBER 15, 2006.

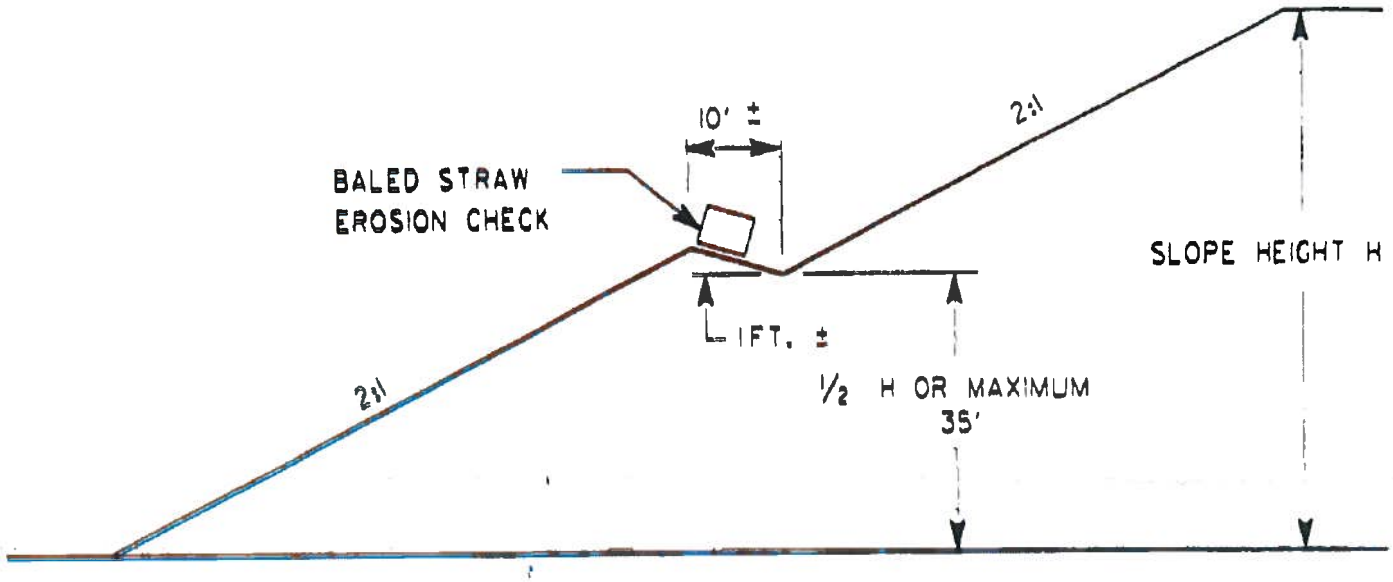
APPENDIX I

Berm Detail for Cuts and Fills Over 35 Feet

Serrated Slope Detail

Benching Details

Pipe Culvert Material Alternates



NOTES:

1. FOR SLOPE HEIGHTS LESS THAN 70 FT. BUT GREATER THAN 35 FT., A BERM SHOULD BE CONSTRUCTED AT APPROX. 1/2 THE SLOPE HEIGHT. FOR SLOPE HEIGHTS GREATER THAN 70 FT., CONSTRUCT A BERM EVERY 35 FT.
2. THE BERM SHOULD BE SLOPED TO DRAIN AND SHOULD BE CONNECTED TO CONCRETE FLUMES TO REMOVE WATER FROM SLOPE.
3. A DRAINAGE DITCH SHOULD BE CONSTRUCTED AT THE TOP OF CUT SLOPES WHERE WATER DRAINS TOWARDS SLOPE.

BERM DETAIL FOR CUTS OR FILLS OVER 35 FEET

NO SCALE

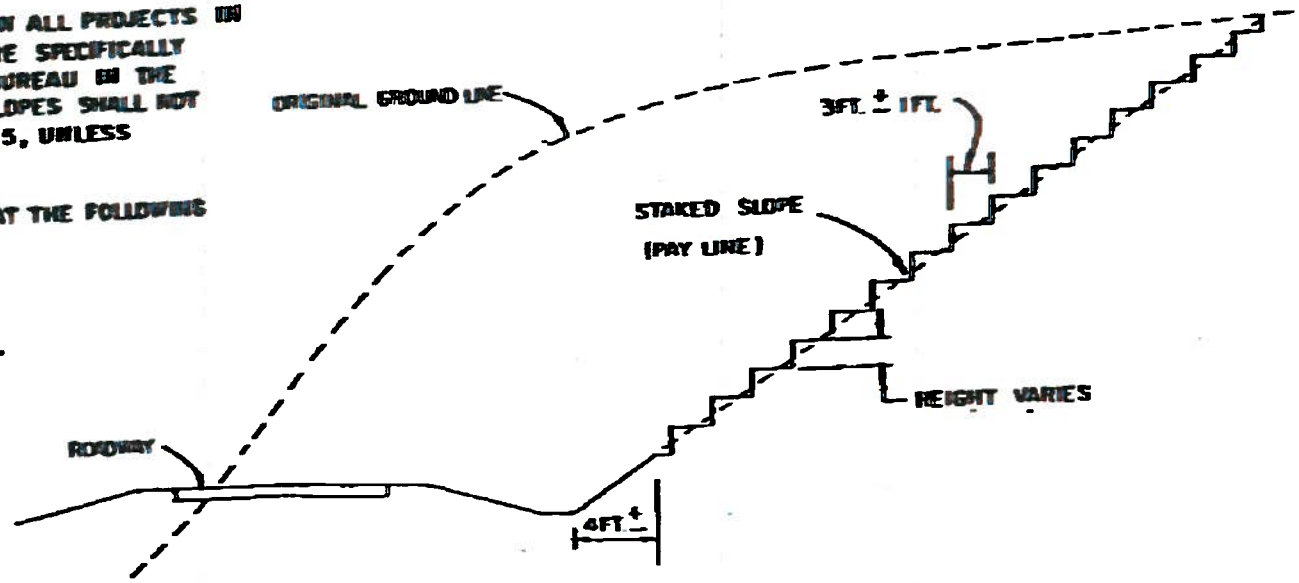
4.5.19

psi Information To Build On — Engineering • Consulting • Testing	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144
DETAIL 1 - BERM DETAIL FOR CUTS OR FILLS OVER 35 FEET I-575 at Barrett Parkway to Sixes Road Northwest Corridor Project Cobb and Cherokee Counties, Georgia	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNH -0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

NOTES:

1. SLOPES STEEPER THAN 3:1 SHALL BE SERRATED. CUT SLOPES IN HARD AND COMPETENT ROCK WILL NOT REQUIRE SERRATING.
2. WIDTH OF STEP SHALL BE 3 FT. ± 1 FT.
3. HEIGHT OF STEP IS A FUNCTION OF WIDTH AND STAKED SLOPE.
4. TREAD OF STEP SHALL BE APPROXIMATELY HORIZONTAL.
5. SERRATED SLOPES SHALL BE USED ON ALL PROJECTS IN DISTRICTS 1,6 AND 7, EXCEPT WHERE SPECIFICALLY EXCEPTED BY THE GEOTECHNICAL BUREAU IN THE SOIL SURVEY REPORT. SERRATED SLOPES SHALL NOT BE USED IN DISTRICTS 2,3,4 AND 5, UNLESS REQUIRED BY THE SOIL SURVEY
6. SERRATED SLOPES WILL BE REQUIRED AT THE FOLLOWING LOCATIONS ON THIS PROJECT:

STATION TO STATION	LOCATION
As directed by the Engineer.	



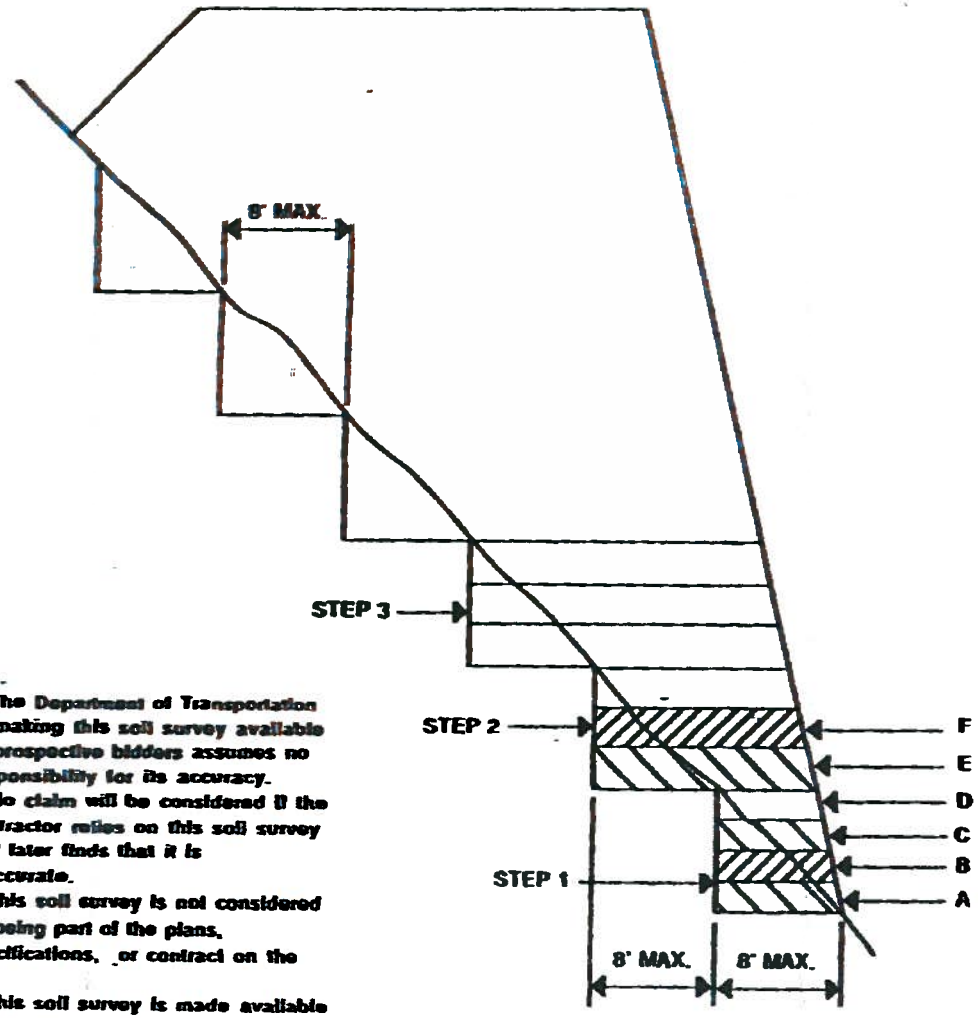
SERRATED SLOPE DETAIL

NO SCALE

psi Information To Build On	PROFESSIONAL SERVICE INDUSTRIES, INC. 95 CHASTAIN ROAD KENNESAW, GA 30144
DETAIL 2 - SERRATED SLOPE DETAIL I-575 at Barrett Parkway to Sixes Road Northwest Corridor Project Cobb and Cherokee Counties, Georgia	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNH -0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

4.5.30

BENCHING DETAIL



NO SCALE

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE.
(SEE DIAGRAM AT LEFT.)

2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8' (ABOUT 3/4 THE WIDTH OF THE USUAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED. BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8' INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4' IF AN 8' HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4' ALLOWING THE HORIZONTAL DISTANCE TO VARY.

3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

The Department of Transportation in making this soil survey available to prospective bidders assumes no responsibility for its accuracy.

No claim will be considered if the contractor relies on this soil survey and later finds that it is inaccurate.

This soil survey is not considered as being part of the plans, specifications, or contract on the job.

This soil survey is made available as provided for in the specifications of the Department.

psi Information To Build On — Engineering • Consulting • Testing	PROFESSIONAL SERVICE INDUSTRIES, INC 95 CHASTAIN ROAD KENNESAW, GA 30144
DETAIL 3 - BENCH DETAIL I-575 at Barrett Parkway to Sixes Road Northwest Corridor Project Cobb and Cherokee Counties, Georgia	
DRAWN BY: Willie Liew	GDOT PROJECT NO. CSNH -0008-00(256) PI NO. 0008256
CHECKED BY: K.SUTER	DATE: 12/21/2007

pH 5.9
Resistance 10012
Project No.: CSNHS-0008-00(256) **County:** Cobb and Cherokee Counties **P.I. No.:** 0008256

Pipe Culvert Material Alternates
For Piedmont/Blue Ridge Region

TYPE OF PIPE INSTALLATION				CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
					ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING			X							
STORM DRAIN	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING			X	X		X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	ADT < 250	X	X		X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	250 < ADT < 1,500	X	X*		X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	1,500 < ADT < 15,000	X					X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	ADT > 15,000	X							
STORM DRAIN	CROSS DRAIN	GRADE > 10%	ADT < 250		X		X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE > 10%	ADT > 250				X		X	X	X
SIDE DRAIN				X	X		X		X	X	X
PERMANENT SLOPE DRAIN					X	X	X		X	X	X
PERFORATED UNDERDRAIN					X	X	X	X	X		X

* This type pipe can be used if the addition of Type "B" Coating (AASHTO M-190, Half Bituminous Coated with Paved Invert) is utilized.

NOTES:

1. Allowable materials are indicated by an "X".
2. Structural requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P, whichever is applicable, and the Standard Specifications.
3. Graded aggregate backfill shall be used in cross drain applications for all plastic pipes (AASHTO M-294, HDPE pipe, AASHTO M-304, PVC pipe, ASTM F-949, PVC pipe)

Rev 09-18-07

APPENDIX II

Soil Survey Logs and Notes

SPT Boring Logs

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-1	80+00	62' RT. C/L	9/27/07	0 to 2"	Topsoil	IIB4	Dry	3	2' right off shoulder in grass. 2' crushed stone at surface.
				2" to 5'	Brown silty clayey SAND (SC-SM)				810.02 sample collected.
									Had to drill a second hole to get enough for sample.
B-2	80+00	72' LT. C/L	9/26/07	0 to 2"	Topsoil	IIB4	Dry	7	2' left off shoulder in grass
				2" to 5'	Reddish brown silty sandy CLAY (CL)				810.02 sample collected.
B-3	85+00	62' RT. C/L	9/27/07	0' to 5'	Brown silty clayey SAND (SC-SM), traces of clay at 5'.	IIB4	Dry	3	2' right of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-1
B-4	85+00	10' LT. C/L	9/10/07	0 to 2"	Topsoil	IIB3	Dry	6	Bridge over Barrett Parkway 50' South, 810.02 sample collected
				2" to 5'	Brown Sandy SILT (ML)				20' N overhead power, possible culvert
B-5	85+00	75' LT. C/L	9/26/07	0' to 5'	Reddish brown silty sandy CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass. Station is right before Barrett Parkway Bridge
					Topsoil not measured at this location				and there are too many utilities at this location. Offset to other side of the
									bridge approximately 250'. Soil similar to boring B-2.
B-6	90+00	58' RT. C/L	9/27/07	0 to 2"	Topsoil	IIIC1	Dry	8	In shoulder, 2' left of right edge, 6" of asphalt, 1.5' of gravel.
				2" to 5'	Brown sandy SILT (ML)				810.02 sample collected.
B-7	90+00	10' RT. C/L	9/10/07	0 to 2"	Topsoil	IIB4	Dry	7	Pavement smooth, 810.02 and moisture samples collected
				2" to 5'	Red sandy SILT (ML)				
B-8	90+00	74' LT. C/L	9/26/07	0 to 2"	Topsoil	IIIC1	Dry	3	2' left off shoulder in grass
				2" to 5'	Reddish brown silty clayey SAND (SC-SM)				810.02 sample collected.
B-9	95+00	60' RT. C/L	9/27/07	0' to 5'	Reddish brown silty clayey SAND (SC-SM)	IIIC1	Dry	3	2' right of shoulder in grass.
					traces of clay at 5'.				Soil similar to boring B-8.
					Topsoil not measured at this location				
B-10	95+00	10' LT. C/L	9/10/07	0' to 5'	Brown Sandy SILT (ML)	IIIC1	Dry	8	810.02 and corrosivity samples collected
					Topsoil not measured at this location				
B-11	95+00	70' LT. C/L	9/26/07	0 to 3"	Topsoil	IIIC1	Dry	3	In shoulder, 2' right of left edge.
				3" to 6'	Red silty clayey SAND (SC-SM)				6" asphalt, 1.5' gravel.
									CBR sample collected.
B-12	98+00	75' LT. C/L	9/26/07	0' to 6'	Red sandy silty CLAY (CL)	IIIC1	Dry	8	2' left off shoulder in grass
					Topsoil not measured at this location				810.02 sample collected.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-13	100+00	57' RT. C/L	9/27/07	0 to 1"	Topsoil	IIB4	Dry	7	1' right of shoulder in grass.
				1" to 7'	Red sandy SILT (ML)				810.02 sample collected.
B-14	100+00	15' RT. C/L	9/10/07	0 to 2"	Topsoil	IIB4	Dry	7	Guardrail to the East
				2" to 5'	Reddish Brown Sandy SILT (ML)				Soil similar to boring B-13
B-15	101+00	82' LT. C/L	9/26/07	0' to 6'	Reddish brown sandy silty CLAY (CL)	IIIC1	Dry	8	2' left off shoulder in grass on Exit 1 off ramp side. Next to 40 MPH sign.
					Topsoil not measured at this location				Soil similar to boring B-12.
B-16	103+00	53' RT. C/L	9/27/07	0' to 6'	Dark brown silty clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' left of right edge.
					Topsoil not measured at this location				8" of asphalt, 1.5' gravel.
									810.02 sample collected.
B-17	104+00	75' LT. C/L	9/26/07	0' to 5'	Gray crushed stone (GP)	IA1	Dry	2	In shoulder, 2' right of left edge.
					Topsoil not measured at this location				6" asphalt.
									810.02 sample collected.
B-18	105+00	10' LT. C/L	9/10/07	0' to 5'	Tan silty clayey SAND (SC-SM)	IIB3	Dry	3	Storm drain in C/L drop box, 810.02 sample collected
					Topsoil not measured at this location				
B-19	106+00	57' RT. C/L	9/27/07	0' to 6'	Reddish brown silty clayey SAND (SC-SM).	IIB4	Dry	3	1' right of shoulder in grass.
					Crushed stone at 6'.				2.5' of gravel.
					Topsoil not measured at this location				Soil similar to boring B-16.
B-20	107+00	74' LT. C/L	9/26/07	0' to 5'	Light brown silty clayey SAND (SC-SM)	IIB3	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-18.
B-21	109+00	64' RT. C/L	9/27/07	0 to 2"	Topsoil	IIB3	Dry	3	1' right of shoulder in grass.
				2" to 7'	Red clayey SAND (SC). Refusal at 6'.				810.02 sample collected.
									Refusal at 6'. Offset 100' north to Station 110+00.
B-22	110+00	64' RT. C/L	9/27/07	0 to 2'	2 ft of crushed stone (GW) then refusal.	IA1	Dry	1	Offset another 100' north to Station 111+00.
					Topsoil not measured at this location				Soil similar to boring B-17.
B-23	110+00	10' RT. C/L	9/10/07	0 to 2"	Topsoil	IIB2	Dry	3	810.02 sample collected, Possible rock outcrop.
				2" to 5'	Brown Silty SAND (SM)				
B-24	110+00	75' LT. C/L	9/26/07	0 to 6"	Topsoil	IIB3	Dry	3	2' left off shoulder in grass
				6" to 6'	Brown clayey SAND (SC)				810.02 sample collected.
B-25	111+00	64' RT. C/L	9/27/07	0' to 5'	Brown sandy SILT (ML)	IIB4	Dry	7	1' right of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-26.
B-26	112+00	56' RT. C/L	9/27/07	0' to 5'	Reddish brown sandy SILT (ML)	IIB4	Dry	7	In shoulder, 2' left of right edge.
					Topsoil not measured at this location				4" asphalt, 1.5' gravel.
									Sample collected for CBR.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-27	113+00	71' LT. C/L	9/26/07	0' to 5'	Red sandy silty CLAY (CL)	IIB4	Dry	7	In shoulder, 2' right of left edge.
					Topsoil not measured at this location				6" of asphalt, 1.5' gravel
									810.02 sample collected.
B-28	115+00	10' LT. C/L	9/10/07	0' to 5'	Red sandy silty CLAY (CL)	IIB4	Dry	7	Soil similar to boring B-27.
					Topsoil not measured at this location				
B-29	117+00	62' RT. C/L	9/27/07	0 to 4"	Topsoil	IIB4	Dry	7	2' right of shoulder in grass.
				4" to 5'	Red sandy silty CLAY (CL)				Sample collected for corrosivity.
									Soil similar to boring B-27.
B-30	118+00	76' LT. C/L	9/26/07	0' to 5'	Red sandy silty CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-27.
B-31	120+00	10' RT. C/L	9/10/07	0 to 2"	Topsoil	IIB3	Dry	3	810.02 sample collected
				2" to 5'	Brown silty clayey SAND (SC-SM)				
B-32	122+00	74' LT. C/L	9/26/07	0 to 4"	Topsoil	IIB3	Dry	3	2' left off shoulder in grass .
				4" to 5'	Brown silty clayey SAND (SC-SM)				Offset 110' south from Station 123+00 due to bridge over creek.
									Soil similar to boring B-31.
B-33	125+00	10' LT. C/L	9/10/07	0' to 5'	Red silty sandy CLAY (CL)	IIB3	Dry	6	Dropbox at 20' North
					Topsoil not measured at this location				Soil similar to boring B-35.
B-34	127+00	57' RT. C/L	9/27/07	0' to 5'	Red silty sandy CLAY (CL)	IIB3	Dry	6	Edge of pavement.
					Topsoil not measured at this location				Soil similar to boring B-35.
B-35	128+00	75' LT. C/L	9/26/07	0' to 5'	Red sandy silty CLAY (CL)	IIB3	Dry	6	In shoulder, 2' right of left edge. Large cracks in asphalt in shoulder.
					Topsoil not measured at this location				6" asphalt, 1.5' gravel
									810.02 sample collected
B-36	129+00	10' RT. C/L	9/10/07	0 to 1"	Topsoil	IIB4	Dry	7	810.02 sample collected
				1" to 8'	Brown Clayey SILT (ML)				
B-37	131+80	10' LT. C/L	9/10/07	0' to 13'	Brown clayey SILT (ML)	IIB4	Dry	7	Offset 20' South from Station 132+00 due to obstruction, Fill
					Topsoil not measured at this location				Soil similar to boring B-36.
B-38	132+00	60' RT. C/L	9/27/07	0 to 1"	Topsoil	IIB3	Dry	6	2' right of shoulder in grass.
				1" to 5'	Reddish orange sandy CLAY (CL)				4" of asphalt, 1.5 ' gravel.
									810.02 sample collected.
B-39	133+00	78' LT. C/L	9/26/07	0 to 2"	Topsoil	IIB4	Dry	7	2' left off shoulder in grass
				2" to 5'	Red sandy CLAY (CL)				810.02 and corrosivity samples collected

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-40	135+00	10' RT. C/L	9/10/07	0' to 25'	Brown Sandy Clayey SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-41	137+00	58' RT. C/L	9/27/07	0' to 5'	Red sandy CLAY (CL)	IIB4	Dry	7	2' right of shoulder in grass. At end of guardrail at mile marker 2.
					Topsoil not measured at this location				Soil similar to boring B-39.
B-42	137+70	77' LT. C/L	9/26/07	0' to 5'	Reddish brown silty sandy CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				Offset 30' south from Station 138+00 due to Big Shanty Rd. bridge
									Soil similar to boring B-39.
B-43	138+00	5' LT. C/L	9/10/07	0' to 25'	Tan sandy clayey SILT (ML)	IIB4	Dry	7	On bridge embankment
					Topsoil not measured at this location				Soil similar to boring B-40.
B-44	141+00	10' RT. C/L	9/10/07	0 to 1"	Topsoil	IIB4	Dry	7	810.02 sample collected
				1" to 22'	Brown Clayey SILT (ML)				
B-45	142+00	60' RT. C/L	9/27/07	0 to 3"	Topsoil	IIB4	Dry	7	2' right of shoulder in grass.
				3" to 5'	Red sandy CLAY (CL)				810.02 sample collected.
B-46	143+00	73' LT. C/L	9/26/07	0 to 3"	Topsoil	IIB4	Dry	7	In shoulder, 2' right of left edge.
				3" to 5'	Red sandy silty CLAY (CL)				4" of asphalt, 1.5 ' of gravel
									810.02 sample collected
B-47	144+00	10' LT. C/L	9/10/07	0' to 15'	Brown Sandy Clayey SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-48	147+00	58' RT. C/L	9/27/07	0' to 5'	Reddish brown sandy CLAY (CL).	IIB4	Dry	7	2' right of shoulder in grass.
					Topsoil not measured at this location				4"of asphalt, 1.5 'gravel
									810.02 sample collected.
B-49	147+00	10' RT. C/L	9/10/07	0' to 8'	Red sandy clayey SILT (ML)	IIB4	Dry	7	Soil similar to boring B-47.
					Topsoil not measured at this location				
B-50	148+00	86' LT. C/L	9/26/07	0' to 5'	Red sandy silty CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-48.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-51	150+00	10' LT. C/L	9/11/07	0 to 1"	Topsoil	IIB4	Dry	7	810.02, CBR and Moisture samples collected
				1" to 7'	Red Sandy SILT (ML)				Drop Box at 10' Southeast of Borehole
B-52	152+00	74' RT. C/L	9/27/07	0' to 5'	Reddish brown sandy SILT (ML)	IIB4	Dry	7	2' right of shoulder in grass.
					2' crushed stone at surface.				2' crushed stone at surface.
					Topsoil not measured at this location				Soil similar to boring B-51.
B-53	153+00	15' RT. C/L	9/11/07	0' to 7'	Brown Clayey SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-54	153+00	96' LT. C/L	9/26/07	0 to 4"	Topsoil	IIB3	Dry	6	2' left off shoulder in grass
				4" to 5'	Brown silty CLAY (CL) with fat CLAY (CH) at 5'				810.02 sample collected
B-55	156+00	10' LT. C/L	9/11/07	0' to 5'	Red Sandy SILT (ML)	IIB4	Dry	7	Soil similar to boring B-56.
					Topsoil not measured at this location				
B-56	157+00	60' RT. C/L	9/27/07	0' to 6'	Red sandy SILT (ML)	IIB4	Dry	7	2' right of shoulder in grass.
					Topsoil not measured at this location				2' crushed stone at surface.
									810.02 sample collected.
B-57	158+00	70' LT. C/L	9/26/07	0' to 5'	Red sandy SILT (ML)	IIB4	Dry	7	In shoulder, 2' right of left edge, in between Chastain Rd on-ramp and I-575
					Topsoil not measured at this location				Corrosivity sample collected
									Soil similar to boring B-56.
B-58	161+00	20' RT. C/L	9/11/07	0 to 2"	Topsoil	IIIC2	Dry	9	810.02 sample collected
				2" to 5'	Red sandy SILT (ML)				
B-59	162+00	55' RT. C/L	9/27/07	0 to 1"	Topsoil	IIB4	Dry	7	2' right of shoulder in grass.
				1" to 5'	Red silty sandy CLAY (CL)				4" of asphalt, 2' gravel.
									810.02 sample collected.
B-61	163+00	78' LT. C/L	9/26/07	0 to 5"	Topsoil	IIIC1	Dry	8	2' left off shoulder in grass.
				5" to 5'	Red sandy silty CLAY (CL)				1' of crushed stone at surface
									810.02 sample collected
B-62	166+00	20' RT. C/L	9/11/07	0' to 5'	Red sandy silty CLAY (CL)	IIIC1	Dry	8	Soil similar to boring B-61.
					Topsoil not measured at this location				
B-63	167+00	60' RT. C/L	9/28/07	0' to 5'	Reddish brown silty sandy CLAY (CL)	IIIC1	Dry	8	2' right of shoulder in grass.
					Topsoil not encountered				2' crushed stone at surface.
									Soil similar to boring B-61.
B-64	168+00	78' LT. C/L	9/26/07	0' to 5'	Dark brown silty sandy CLAY (CL)	IIIC1	Dry	8	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-61.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-65	171+25	10' LT. C/L	9/11/07	0 to 2"	Topsoil	IIB4	Dry	3	Offset 25' North due to possible sewer
				2" to 5'	Brown silty clayey SAND (SC-SM)				810.02 and Corrosivity samples collected, overpass at 30' South
B-66	172+00	60' RT. C/L	9/28/07	0' to 5'	Brown silty clayey SAND (SC-SM)	IIB4	Dry	3	2' right of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-65.
B-67	173+00	74' LT. C/L	9/26/07	0 to 2"	Topsoil	IIB4	Dry	7	In shoulder, 2' right of left edge.
				2" to 5'	Red sandy silty CLAY (CL)				4" of asphalt, 1' of gravel
									810.02 sample collected
B-68	176+00	15' RT. C/L	9/11/07	0' to 5'	Red sandy SILT (ML)	IIB3	Dry	6	Soil similar to boring B-69.
					Topsoil not measured at this location				
B-69	177+00	55' RT. C/L	9/28/07	0' to 5'	Brown sandy SILT (ML)	IIB3	Dry	6	In shoulder, 2' left of right edge.
					Topsoil not measured at this location				810.02 sample collected.
									6" of asphalt, 1' of gravel.
B-70	178+00	76' LT. C/L	9/26/07	0' to 5'	Reddish brown sandy silty CLAY (CL)	IIB3	Dry	6	2' left off shoulder in grass
					Topsoil not measured at this location				CBR sample collected
B-71	180+00	60' RT. C/L	9/28/07	0' to 6'	Light brown sandy CLAY (CL)	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not encountered				2' crushed stone at surface.
B-72	181+00	10' LT. C/L	9/11/07	0 to 1"	Topsoil	IIIC1	Dry	3	810.02 sample collected
				1" to 5'	Brown silty clayey SAND (SC-SM)				
B-73	181+00	79' LT. C/L	9/26/07	0' to 6'	Reddish brown sandy silty CLAY (CL)	IIB3	Dry	6	2' left off shoulder in grass
					Topsoil not measured at this location				2' of crushed stone at surface
									Soil similar to boring B-70.
B-74	183+00	58' RT. C/L	9/28/07	0 to 1"	Topsoil	IIB4	Dry	7	2' right of shoulder in grass.
				1" to 8'	Dark brown silty sandy CLAY (CL)				1' crushed stone at surface.
									Soil similar to boring B-71.
B-75	184+00	15' RT. C/L	9/11/07	0' to 7'	Red silty sandy CLAY (CL)	IIB4	Dry	7	Crack in Northbound Pavement
					Topsoil not measured at this location				Soil similar to boring B-71.
B-76	186+00	58' RT. C/L	9/28/07	0' to 6'	Red silty clayey SAND (SC-SM)	IIB3	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected.
					Fat clay (CH) from 5' to 6'.		Dry	11	6" of asphalt, 1.5' gravel.
					Topsoil not measured at this location				
B-77	186+00	104' LT. C/L	9/26/07	0 to 2"	Topsoil	IIB3	Dry	6	In shoulder, 2' right of left edge.
				2" to 8'	Red sandy silty CLAY (CL)				6" of asphalt, 2' of gravel
									810.02 sample collected

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-78	187+90	95' LT. C/L	9/26/07	0' to 5'	Red sandy SILT (ML)	IIB4	Dry	7	1' left off shoulder in grass, offset 110' south from Station 189+00 due to
					Topsoil not measured at this location				guardrail. 2' of crushed rock at surface.
									Soil similar to boring B-79.
B-79	189+00	10' LT C/L	9/11/07	0 to 2"	Topsoil	IIB4	Dry	7	810.02 sample collected, unknown underground utilities near-by
				2" to 5'	Red Sandy SILT (ML)				
B-80	191+00	76' RT. C/L	9/28/07	0' to 5'	Dark red sandy SILT (ML)	IIB4	Dry	7	2' right of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-79.
B-81	194+00	10' RT. C/L	9/11/07	0' to 5'	Red sandy SILT (ML)	IIB3	Dry	6	Corrosivity sample collected
					Topsoil not measured at this location				Soil similar to boring B-83.
B-82	194+00	87' LT. C/L	9/26/07	0' to 5'	Brown sandy SILT (ML)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-79.
B-83	196+00	72' RT. C/L	9/28/07	0 to 2"	Topsoil	IIB3	Dry	6	2' right off shoulder in grass. 810.02 sample collected.
				2" to 5'	Red sandy SILT (ML)				
B-84	199+00	10' LT. C/L	9/11/07	0 to 2"	Topsoil	IIIC2	Dry	9	810.02 sample collected
				2" to 5'	Brown Sandy SILT (ML)				
B-85	199+00	82' LT. C/L	9/26/07	0 to 6"	Topsoil	IIB4	Dry	3	In shoulder, 2' right of left edge.
				6" to 5'	Brown silty SAND (SM)				6" of asphalt , 1.5 ' of gravel
									810.02 sample collected
B-86	201+00	58' RT. C/L	9/28/07	0' to 5'	Dark brown silty clayey SAND (SC-SM).	IIB4	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected.
					Traces of red clay at 5'.				6 " of asphalt, 1.5' of gravel.
					Topsoil not measured at this location				
B-87	204+00	15' RT. C/L	9/11/07	0' to 5'	Brown silty SAND (SM)	IIIC1	Dry	3	Soil similar to boring B-88.
					Topsoil not measured at this location				
B-88	204+00	84' LT. C/L	9/26/07	0' to 5'	Tan silty SAND (SM)	IIIC1	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				810.02 and CBR samples collected
B-89	206+00	82' RT. C/L	9/28/07	0 to 4"	Topsoil	IIB4	Dry	3	10' right off shoulder in grass behind guardrail. 810.02 and corrosivity samples
				4" to 5'	Silver silty clayey SAND (SC-SM)				collected.
B-90	209+00	10' LT. C/L	9/11/07	0 to 2"	Topsoil	IIIC2	Dry	3	810.02 sample collected, asphalt in median
				2" to 5'	Brown silty clayey SAND (SC-SM) with traces of mica				
B-91	209+00	82' LT. C/L	9/25/07	0 to 1"	Topsoil	IIB4	Dry	3	2' left off shoulder in grass
				1" to 5'	Tan silty SAND (SM) with quartz fragments at 3.5'				810.02 sample collected

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-92	211+00	78' RT. C/L	9/28/07	0' to 5'	Tan silty SAND (SM)	IIB4	Dry	3	In grass, just off right edge of shoulder
					Topsoil not measured at this location				2' of gravel.
									Soil similar to boring B-91.
B-93	214+00	98' RT. C/L	9/28/07	0' to 6'	Red sandy clayey SILT (ML)	IIB4	Dry	7	In shoulder, 2' left of right edge, 810.02 sample collected.
					Topsoil not measured at this location				6" of asphalt, 2.5' of gravel.
B-94	214+00	10' RT. C/L	9/11/07	0' to 5'	Red/Brown sandy clayey SILT (ML)	IIB4	Dry	7	Soil similar to boring B-93.
					Topsoil not measured at this location				
B-95	214+00	88' LT. C/L	9/25/07	0' to 5'	Red sandy clayey SILT (ML)	IIB4	Dry	7	In shoulder, 2' right of left edge.
					Topsoil not measured at this location				6" of asphalt , 1' of gravel
									Soil similar to boring B-93.
B-96	217+00	64' RT. C/L	9/28/07	0 to 1"	Topsoil	IIB4	Dry	3	2' right of shoulder in grass.
				1" to 6'	Brown silty clayey SAND (SC-SM)				Soil similar to boring B-97.
B-97	219+00	10' LT. C/L	9/11/07	0 to 2"	Topsoil	IIB4	Dry	3	810.02 sample collected, drop box at C/L
				2" to 5'	Brown silty clayey SAND (SC-SM)				
B-98	219+00	68' LT. C/L	9/25/07	0 to 2"	Topsoil	IIB4	Dry	7	2' left off shoulder in grass, on Bells Ferry entrance ramp
				2" to 5'	Red Sandy Silty CLAY (CL)				810.02 and corrosivity samples collected
B-99	220+00	64' RT. C/L	9/28/07	0' to 6'	Red sandy SILT (ML)	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not measured at this location				
B-100	223+00	60' RT. C/L	9/28/07	0' to 6'	Reddish brown silty clayey SAND (SC-SM)	IIIC1	Dry	3	In shoulder, 2' left of right edge, CBR sample collected.
					Topsoil not measured at this location				8" of asphalt, 1.5' of gravel.
B-101	224+00	10' RT. C/L	9/11/07	0' to 5'	Red silty clayey SAND (SC-SM)	IIIC1	Dry	3	Soil similar to boring B-100.
					Topsoil not measured at this location				
B-102	224+00	69' LT. C/L	9/25/07	0' to 5'	Reddish Brown silty clayey SAND (SC-SM)	IIIC1	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-100.
B-103	226+00	66' RT. C/L	9/28/07	0 to 2"	Topsoil	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
				2" to 6'	Reddish brown sandy SILT (ML)				
B-104	229+00	66' RT. C/L	9/28/07	0' to 7'	Reddish brown sandy SILT (ML)	IIB4	Dry	7	2' right of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-103.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-105	229+00	10' LT. C/L	9/11/07	0 to 2"	Topsoil	IIIC1	Dry	8	810.02 sample collected
				2" to 5'	Brown Sandy SILT (ML)				
B-106	229+00	63' LT. C/L	9/25/07	0 to 2"	Topsoil	IIB4	Dry	3	In shoulder, 2' right of left edge, 810.02 sample collected
				2" to 5'	Light Brown Silty SAND (SM)				1' of asphalt, 1' of gravel
B-107	231+50	67' LT. C/L	9/25/07	0' to 4'	Gray Silty GRAVEL (GM)		Dry	2	2' left off shoulder in grass
				4' to 5'	Brown Silty SAND (SM)	IIB4	Dry	3	offset 250' South from Station 234+00 due to Bells Ferry Bridge
					Topsoil not measured at this location				Soil similar to boring B-106.
B-108	235+00	62' RT. C/L	9/28/07	0 to 1"	Topsoil	IIB4	Dry	7	Offset 100' North from Sta. 234+00 due to Bells Ferry Rd bridge
				1" to 5'	Orange sandy CLAY (CL)				at Sta. 234+00. In shoulder, 2' left of right edge, 810.02 sample collected.
									6" of asphalt, 1.5' gravel. Maybe fat clay (CH)
B-109	235+00	10' RT. C/L	9/11/07	0' to 5'	Red Sandy CLAY (CL)	IIB4	Dry	7	Offset 100' N due to cross-road
					Topsoil not measured at this location				Soil similar to boring B-108.
B-110	239+00	68' RT. C/L	9/28/07	0' to 5'	Red sandy CLAY (CL)	IIB4	Dry	7	2' right of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-108.
B-111	239+00	10' LT. C/L	9/11/07	0 to 2"	Topsoil	IIB3	Dry	6	810.02 and corrosivity samples collected, drop box at C/L
				2" to 5'	Red Sandy SILT (ML)				
B-112	239+00	66 LT. C/L	9/25/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIIC1	Dry	8	2' left off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				1' crushed stone at surface
B-113	244+00	60' RT. C/L	9/28/07	0 to 1"	Topsoil	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
				1" to 5'	Brown sandy silty CLAY (CL)				
B-60	244+00	63' LT. C/L	9/25/07	0 to 1"	Topsoil	IIB4	Dry	7	In shoulder, 2' right of left edge
				1" to 5'	Red sandy silty CLAY (CL)				4" of asphalt, 1.5' of gravel
					with partially weathered rock at 2'				Soil similar to boring B-113
B-114	244+00	10' RT. C/L	9/11/07	0' to 5'	Red Sandy SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-115	249+00	58' RT. C/L	9/28/07	0' to 5'	Red silty sandy CLAY (CL)	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not measured at this location				Large rock outcrop observed on right side of Bells Ferry Rd. on-ramp
									6" of asphalt, 1' gravel
B-116	249+00	10' LT. C/L	9/11/07	0 to 1"	Topsoil	IIB4	Dry	7	Soil similar to boring B-115.
				1" to 5'	Brown/Red sandy CLAY (CL)				

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-117	249+00	68' LT. C/L	9/25/07	0' to 5'	Brown silty clayey SAND (SC-SM)	IIB3	Dry	3	2' left off shoulder in grass located in front of Exit 4 sign
					Topsoil not measured at this location				810.02 sample collected
B-118	251+75	86' LT. C/L	9/25/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				offset 225' South fom Station 254+00 due to guardrail and ITS cable crossing
									Soil similar to boring B-115.
B-119	254+00	72' RT. C/L	10/1/07	0' to 5'	Red sandy silty CLAY (CL)	IIB4	Dry	7	In shoulder, 2' left of right edge.
					Topsoil not measured at this location				6" of asphalt
									Soil similar to boring B-115.
B-120	254+00	10' RT. C/L	9/11/07	0' to 5'	Red sandy silty CLAY with rock fragments (CL)	IIB4	Dry	7	Soil similar to boring B-115.
					Topsoil not measured at this location				
B-121	259+00	58' RT. C/L	10/1/07	0' to 5'	Red sandy SILT (ML)	IIB3	Dry	6	In shoulder, 2' left of right edge
					Topsoil not measured at this location				8" of asphalt
									Soil similar to boring B-122.
B-122	259+00	10' LT. C/L	9/12/07	0 to 1"	Topsoil	IIB3	Dry	6	810.02 sample collected
				1" to 5'	Red Sandy SILT with rock fragments (ML)				Some weathered rock encountered and broke through
B-123	259+00	62' LT. C/L	9/25/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIB3	Dry	6	2' left off shoulder in grass due to guardrail
					Topsoil not measured at this location				810.02 and CBR samples collected
B-124	264+00	66' RT. C/L	10/1/07	0 to 2"	Topsoil	IIB3	Dry	3	2' right off shoulder in grass. 810.02 sample collected.
				2" to 5'	Brown silty clayey SAND (SC-SM)				
B-125	264+00	10' RT. C/L	9/12/07	0' to 5'	Red silty clayey SAND (SC-SM)	IIB3	Dry	3	CBR sample collected
					Topsoil not measured at this location				Storm water drain 50' away
B-126	264+00	64' LT. C/L	9/25/07	0 to 2"	Topsoil	IIB3	Dry	6	In shoulder, 2' right of left edge.
				2" to 5'	Red Sandy Silty CLAY (CL)				6" of asphalt, 1' of gravel
									Soil similar to boring B-123.
B-127	269+00	68' RT. C/L	10/1/07	0' to 5'	Red sandy SILT (ML)	IIB4	Dry	7	2' right of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-128.
B-128	269+00	15' LT. C/L	9/12/07	0 to 3"	Topsoil	IIB4	Dry	7	810.02 sample collected
				3" to 4'	Red Sandy SILT with rock fragments (ML)				Offset 10' Northbound due to storm water drain at C/L
				4' to 5'	Red Sandy Silty CLAY (CL)				
B-129	269+00	68' LT. C/L	9/25/07	0' to 6'	Dark Red Sandy CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-130.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-130	272+00	67' LT. C/L	9/25/07	0' to 7'	Red Sandy Silty CLAY (CL) with PWR at 4'	IIB4	Dry	7	2' left off shoulder in grass
					Gray Fine SAND (SP) at 7' below grade				810.02 and corrosivity samples collected
					Topsoil not measured at this location				
B-131	274+00	62' RT. C/L	10/1/07	0 to 2"	Topsoil	IIB3	Dry	6	In shoulder, 2' left of right edge, 810.02 and corrosivity samples collected.
				2" to 5'	Red silty CLAY (CL)				6" of asphalt.
B-132	274+00	10' RT. C/L	9/12/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIB4	Dry	7	Soil similar to boring B-130.
					Topsoil not measured at this location				
B-133	276+00	64' LT. C/L	9/25/07	0 to 3"	Topsoil	IIB4	Dry	7	2' left off shoulder in grass, offset 200' South due to bridge at Sta. 278+00
				3" to 7'	Red Sandy Silty CLAY (CL)				Soil similar to boring B-130.
B-134	279+50	10' LT. C/L	9/12/07	0 to 2"	Topsoil	IIB4	Dry	7	offset 50' North due to overpass
				2" to 5'	Red Sandy Silty CLAY (CL)				Soil similar to boring B-130.
B-135	280+00	62' RT. C/L	10/1/07	0' to 5'	Red silty CLAY (CL)	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not measured at this location				
B-136	281+00	69' LT. C/L	9/25/07	0' to 6'	Reddish Brown Sandy Silty CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-137	284+00	62' RT. C/L	10/1/07	0 to 2"	Topsoil	IIB4	Dry	7	2' right of shoulder in grass.
				2" to 5'	Brown sandy SILT (ML)				Soil similar to boring B-138.
B-138	284+00	10' RT. C/L	9/12/07	0' to 5'	Reddish Brown Sandy SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-139	286+00	72' LT. C/L	9/25/07	0 to 1"	Topsoil	IIB4	Dry	7	2' left off shoulder in grass, 810.02 and CBR samples collected
				1" to 5'	Reddish Brown Sandy SILT (ML) with some				
					crushed stones				
B-140	425+11.04	58' RT. C/L	10/1/07	0' to 5'	Brown Silty SAND (SM)	IIB2	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected.
					Topsoil not measured at this location				6" of asphalt
									Station break 200's to 400's at 425+11.07
B-141	425+00	10' LT. C/L	9/12/07	0 to 2"	Topsoil	IIB3	Dry	6	810.02 and corrosivity samples collected
				2" to 5'	Red Silty Clayey SAND (SC-SM)				Weathered rock encountered at 2.5' deep below grade
B-142	427+00	69' LT. C/L	9/25/07	0 to 1"	Topsoil	IIB3	Dry	3	In shoulder, 1' right of left edge, 810.02 sample collected
				1" to 5'	Reddish Brown Silty Clayey SAND (SC-SM)				1' of asphalt, 2' of crushed grey stone
B-143	430+00	62' RT. C/L	10/1/07	0 to 2"	Topsoil	IIIC2	Dry	9	2' right of shoulder in grass.
				2" to 5'	Brown sandy silty CLAY (CL)				Soil similar to boring B-144.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Bolt Type #	Notes
B-144	430+00	10' RT. C/L	9/12/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIIC2	Dry	9	810.02 sample collected
					Topsoil not measured at this location				
B-145	432+00	73' LT. C/L	9/25/07	0' to 5'	Red Sandy silty CLAY (CL)	IIIC2	Dry	9	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-144.
B-146	435+00	62' RT. C/L	10/1/07	0' to 5'	Red sandy SILT (ML)	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not measured at this location				
B-147	435+00	10' LT. C/L	9/12/07	0 to 1"	Topsoil	IIB4	Dry	7	Soil similar to boring B-146.
				1" to 5'	Red Sandy SILT (ML)				
B-148	437+00	75' LT. C/L	9/25/07	0 to 1"	Topsoil	IIB4	Dry	7	2' left of shoulder in grass, 1' crushed stone encountered at surface
				1" to 5'	Red Sandy Clayey SILT (ML)				Soil similar to boring B-150.
B-149	440+00	58' RT. C/L	10/1/07	0 to 1"	Topsoil	IIB3	Dry	3	In shoulder, 2' left of right edge.
				1" to 5'	Red brown silty clayey SAND (SC-SM)				6" of asphalt.
									Soil similar to boring B-151.
B-150	440+00	15' RT. C/L	9/12/07	0' to 5'	Red Sandy Clayey SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				Offset 5' West due to close proximity to the road
B-151	442+00	69' LT. C/L	9/25/07	0' to 5'	Red silty clayey SAND (SC-SM)	IIB3	Dry	3	In shoulder, 2' right of left edge, 810.02 sample collected
					Topsoil not measured at this location				6" of asphalt, 1' of gravel
B-152	445+00	62' RT. C/L	10/1/07	0' to 5'	Red silty clayey SAND (SC-SM)	IIB3	Dry	3	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not measured at this location				
B-153	445+00	10' LT. C/L	9/12/07	0 to 2"	Topsoil	IIIC2	Dry	9	Offset 10' North due to suspicious marking
				2" to 5'	Red sandy silty CLAY (CL)				Soil similar to boring B-154.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-154	446+70	72' LT. C/L	9/25/07	0 to 2"	Topsoil	IIIC2	Dry	9	2' left off shoulder in grass, offset 30' South due to guardrail
				2" to 5'	Red Sandy Silty CLAY (CL)				810.02 sample collected
B-155	450+00	62' RT. C/L	10/1/07	0 to 3"	Topsoil	IIB4	Dry	7	2' right off shoulder in grass.
				3" to 5'	Red sandy SILT (ML)				Soil similar to boring B-156.
B-156	450+00	15' RT. C/L	9/12/07	0' to 5'	Red Sandy SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-157	452+00	73' LT. C/L	9/25/07	0 to 3"	Topsoil	IIC2	Dry	9	2' left off shoulder in grass
				3" to 5'	Red Sandy Silty CLAY (CL)				Soil similar to boring B-154.
B-158	455+00	58' RT. C/L	10/1/07	0' to 5'	Orange sandy SILT (ML)	IIIC3	Dry	10	In shoulder, 2' left of right edge, 810.02 and corrosivity samples collected.
					Topsoil not measured at this location				
B-159	455+00	5' LT. C/L	9/12/07	0 to 2"	Topsoil	IIIC2	Dry	9	Offset 100' South due to existing utilities
				2" to 5'	Red sandy silty CLAY (CL)				Soil similar to boring B-154.
B-160	457+00	74' LT. C/L	9/24/07	0' to 5'	Tan silty SAND (SM)	IIIC2	Dry	3	2' left off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-161	460+00	62' RT. C/L	10/1/07	0' to 3'	Brown sandy SILT (ML) , refusal at 3'.	IIB4	Dry	7	2' right off shoulder in grass. Refusal at 3', concrete. Offset to 459+80.
	459+80	62' RT. C/L	10/1/07	0' to 5'	Brown sandy SILT (ML)		Dry	7	2' right off shoulder in grass.
					Topsoil not encountered				Soil similar to boring B-162.
B-162	460+00	15' RT. C/L	9/12/07	0' to 5'	Gray/Brown sandy SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-163	462+00	74' LT. C/L	9/24/07	N/A	N/A (See Note)	NA	NA	NA	Boring not performed at this location due to inability to locate ITS cable
B-164	465+00	62' RT. C/L	10/1/07	0' to 5'	Red brown tan sandy SILT (ML)	IIB3	Dry	6	2' right off shoulder in grass. 810.02 and CBR samples collected.
					Topsoil not measured at this location				
B-165	465+00	10' LT. C/L	9/12/07	0 to 3"	Topsoil	IIB3	Dry	6	Soil similar to boring B-164.
				3" to 6'	Brown sandy SILT (ML)				

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-166	467+00	74' LT. C/L	9/24/07	0 to 2"	Topsoil	IIB4	Dry	3	2' left off shoulder in grass, 810.02 and corrosivity samples collected
				2" to 5'	Brown/Red Silty SAND (SM)				
B-167	470+00	58' RT. C/L	10/1/07	0 to 1"	Topsoil	IIIC1	Dry	8	In shoulder, 2' left of right edge.
				1" to 5'	Red sandy silty CLAY (CL)				6"of asphalt.
									Soil similar to boring B-168.
B-168	470+00	15' RT. C/L	9/12/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIIC1	Dry	8	810.02 sample collected
					Topsoil not measured at this location				
B-169	472+00	72' LT. C/L	9/24/07	0 to 1"	Topsoil	IIB3	Dry	3	2' left off shoulder in grass
				1" to 5'	Tan/Brown silty clayey SAND (SC-SM)				Soil similar to boring B-170.
B-170	475+00	62' RT. C/L	10/2/07	0' to 5'	Brown clayey silty SAND (SC-SM)	IIB3	Dry	3	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not measured at this location				
B-171	475+00	15' LT. C/L	9/12/07	0 to 2"	Topsoil	IIB3	Dry	3	Offset 15' East due to existing roadway
				2" to 5'	Red silty clayey SAND (SC-SM)				Soil similar to boring B-170.
B-172	477+00	72' LT. C/L	9/24/07	0' to 3'	Gravel (GW), rock at 3'	NA	Dry	1	2' left off shoulder in grass, 810.02 sample collected at Sta. 477+10
					Topsoil not measured at this location				Offset 10' South due to auger refusal
	477+10	72' LT. C/L	9/24/07	0' to 5'	Brown silty SAND (SM)	IA2	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				810.02 sample collected
B-173	480+00	62' RT. C/L	10/2/07	0 to 2"	Topsoil	IIIC1	Dry	8	2' right off shoulder in grass.
				2" to 5'	Brown silty clayey SILT (ML)				Soil similar to boring B-174.
B-174	480+00	15' RT. C/L	9/12/07	0' to 5'	Brown sandy clayey SILT (ML)	IIIC1	Dry	8	810.02 sample collected
					Topsoil not measured at this location				
B-175	482+00	72' LT. C/L	9/24/07	0' to 5'	Reddish Brown clayey SAND (SC)	IIIC1	Dry	3	2' left off shoulder in grass, CBR sample collected
					Topsoil not measured at this location				
B-176	485+00	58' RT. C/L	10/2/07	0' to 5'	Brown silty clayey SAND (SC-SM)	IIB3	Dry	3	In shoulder, 2' left of right edge, 810.02 and CBR samples collected.
					Topsoil not measured at this location				6" of asphalt.
B-177	485+00	5' LT. C/L	9/12/07	0 to 1"	Topsoil	IIB3	Dry	3	Soil similar to boring B-176.
				1" to 5'	Brown silty clayey SAND (SC-SM) with some organics				

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-178	485+00	70' LT. C/L	9/24/07	0 to 3"	Topsoil	IIB4	Dry	7	On edge of pavement, 810.02 sample collected
				3" to 6'	Reddish Brown clayey SILT (ML) with PWR at 5'				
					Auger refusal at 6'				
B-179	490+00	62' RT. C/L	10/2/07	0 to 3"	Topsoil	IIB4	Dry	7	2' right off shoulder in grass.
				3" to 5'	Red brown sandy clayey SILT (ML)				Soil similar to boring B-180.
B-180	490+00	10' RT. C/L	9/12/07	0' to 5'	Red sandy clayey SILT (ML)	IIB4	Dry	7	810.02 and corrosivity samples collected
					Topsoil not measured at this location				
B-181	490+00	74' LT. C/L	9/24/07	0' to 5'	Reddish Brown sandy clayey SILT (ML)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-180.
B-182	495+00	60' RT. C/L	10/2/07	0' to 5'	Red brown clayey sandy SILT (ML)	IIB4	Dry	7	2' right off shoulder in grass. 810.02 sample collected.
					Topsoil not measured at this location				
B-183	495+00	5' LT. C/L	9/12/07	0 to 2"	Topsoil	IIIC1	Dry	8	CBR sample collected
				2" to 5'	Brown Red Sandy Silty CLAY (CL)				
B-184	495+00	82' LT. C/L	9/24/07	0 to 3"	Topsoil	IIIC1	Dry	8	2' left off shoulder in grass
				3" to 5'	Brown sandy silty CLAY (CL)				6" of topsoil
									Soil similar to boring B-183.
B-185	500+00	58' RT. C/L	10/2/07	0 to 2"	Topsoil	IIIC1	Dry	8	In shoulder, 2' left of right edge.
				2" to 5'	Red silty sandy CLAY (CL)				6" of asphalt.
									Soil similar to boring B-183.
B-186	500+00	5' RT. C/L	9/12/07	0 to 3"	Topsoil	IIB4	Dry	7	Adjacent to a existing storm drain
				3" to 5'	Red sandy clayey SILT (ML)				Soil similar to boring B-182.
B-187	500+00	90' LT. C/L	9/24/07	0' to 5'	Reddish Brown silty clayey SAND (SC-SM)	IIB3	Dry	3	On edge of pavement, 810.02 sample collected
					Topsoil not measured at this location				
B-188	505+00	10' LT. C/L	9/12/07	0 to 2"	Topsoil	IIB4	Dry	7	810.02 sample collected
				2" to 5'	Red Sandy Silty CLAY (CL)				
B-189	505+00	62' LT. C/L	9/24/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIB4	Dry	7	On edge of pavement
					Topsoil not measured at this location				Soil similar to boring B-188.
B-190	506+75	62' RT. C/L	10/2/07	0' to 5'	Brown clayey SAND (SC)	IIIC2	Dry	3	2' right off shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-191.
B-191	510+00	58' RT. C/L	10/2/07	0 to 1"	Topsoil	IIIC2	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected.
				1" to 5'	Red brown clayey SAND (SC)				6" of asphalt.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-192	510+00	10' RT. C/L	9/12/07	0' to 5'	Red sandy silty CLAY (CL)	IIB3	Dry	6	Soil similar to boring B-196.
					Topsoil not measured at this location				
B-193	510+00	70' LT. C/L	9/24/07	0' to 5'	Reddish Brown Sandy Silty CLAY (CL)	IIB3	Dry	6	On edge of pavement
					Topsoil not measured at this location				Soil similar to boring B-196.
B-194	515+00	62' RT. C/L	10/2/07	0' to 5'	Brown clayey SAND (SC) with rock fragments	IIIC2	Dry	3	2' right off shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-191.
B-195	515+00	20' LT. C/L	9/12/07	0 to 1"	Topsoil	IA1	Dry	2	Offset 90' South due to water main
				1" to 5'	Gray Crushed Stone (GP)				
B-196	515+00	64' LT. C/L	9/24/07	0 to 1"	Topsoil	IIB3	Dry	6	2' left off edge of shoulder in grass
				1" to 5'	Red Sandy Silty CLAY (CL)				Hit something at 3' deep and moved to edge of pavement,
									810.02 sample collected
B-197	521+00	62' RT. C/L	10/2/07	0 to 1"	Topsoil	IIB4	Dry	7	2' right off shoulder in grass. 810.02 and corrosivity samples collected.
				1" to 5'	Orange sandy CLAY (CL)				Offset to Station 521+00 from Station 520+00 due to concrete.
B-198	521+00	10' RT. C/L	9/13/07	0' to 5'	Red clayey SAND (SC)	IIIC2	Dry	3	810.02 sample collected
					Topsoil not measured at this location				Offset 100' North from Station 520+00 due to SR 92 Overpass
B-199	521+00	72' LT. C/L	9/24/07	0' to 5'	Brown Sandy CLAY (CL)	IIB4	Dry	7	2' left off shoulder in grass
					Topsoil not measured at this location				Offset 100' North due to Sta. 520+00 being under the bridge
									Soil similar to boring B-197.
B-200	525+00	58' RT. C/L	10/2/07	0' to 5'	Orange silty sandy CLAY (CL)	IIB4	Dry	7	In shoulder, 2' left of right edge, 810.02 sample collected.
					Topsoil not measured at this location				6" of asphalt.
B-201	525+00	15' LT. C/L	9/13/07	0 to 2"	Topsoil	IIB4	Dry	7	Soil similar to boring B-200.
				2" to 5'	Red/Brown silty sandy CLAY (CL)				
B-202	525+00	72' LT. C/L	9/24/07	0 to 2"	Topsoil	IIIC2	Dry	9	2' left off shoulder in grass, corrosivity sample collected
				2" to 5'	Red Sandy Silty CLAY (CL)				Soil similar to boring B-203.
B-203	529+00	72' LT. C/L	9/24/07	0 to 2"	Topsoil	IIIC2	Dry	9	2' left off shoulder in grass, 810.02 sample collected
				2" to 6'	Reddish Brown Sandy Silty CLAY (CL)				
B-204	530+00	62' RT. C/L	10/2/07	0 to 1"	Topsoil	IIB4	Dry	7	2' right off shoulder in grass.
				1" to 6'	Red sandy clayey SILT (ML)				Soil similar to boring B-205.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-205	530+00	5' RT. C/L	9/13/07	0' to 6'	Red sandy clayey SILT (ML)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-206	532+00	72' LT. C/L	9/24/07	0' to 6'	Red Sandy Silty CLAY (CL)	IIIC2	Dry	9	2' left off shoulder in grass approximately 100' North of 1st fiber-optic pole
					Topsoil not measured at this location				Soil similar to boring B-207.
B-207	533+00	10' LT. C/L	9/13/07	0 to 1"	Topsoil	IIIC2	Dry	9	810.02 sample collected.
				1" to 6'	Red Sandy Silty CLAY (CL)				
B-208	535+00	64' LT. C/L	9/24/07	0' to 5'	Red Sandy SILT (ML)	IIIC3	Dry	10	2' left off shoulder in grass
					Topsoil not measured at this location				Right side of Exit 7 off ramp approximately 100' North of Exit 7 sign
									810.02 sample collected
B-209	538+00	78' RT. C/L	9/18/07	0' to 5'	Red Sandy Silty CLAY (CL) with rock fragments	IIB4	Dry	7	In shoulder, offset 2' East due to guardrail
					Topsoil not measured at this location				6" of asphalt
									Soil similar to boring B-210.
B-210	538+00	15' RT. C/L	9/13/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-211	540+00	78' LT. C/L	9/24/07	0' to 5'	Reddish Brown Sandy Silty CLAY (CL)	IIB4	Dry	7	5' left off shoulder in grass next to guardrail
					Topsoil not measured at this location				Soil similar to boring B-210.
B-212	543+00	72' RT. C/L	9/18/07	0' to 5'	Red sandy clayey SILT (ML)	IIIC1	Dry	8	2' right off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-213	543+00	10' LT. C/L	9/13/07	0 to 2"	Topsoil	IIIC1	Dry	8	Soil similar to boring B-212.
				2" to 5'	Tan sandy clayey SILT (ML)				
B-214	545+00	72' LT. C/L	9/24/07	0 to 1"	Topsoil	IIB4	Dry	7	2' left off shoulder in grass at the beginning of guardrail
				1" to 5'	Brown Sandy SILT (ML) with organics and rock fragments				810.02 sample collected

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-215	548+00	66' RT. C/L	9/18/07	0 to 1"	Topsoil	IIB4	Dry	7	2' right off shoulder in grass. Soil similar to boring B-214.
				1" to 4'	Brown sandy SILT (ML)				
				4' to 5'	Crushed Asphalt				
B-216	548+00	15' RT. C/L	9/13/07	0' to 5'	Tan Silty Sandy CLAY (CL)	IIB4	Dry	7	810.02 sample collected
					Topsoil not measured at this location				
B-217	549+00	72' LT. C/L	9/24/07	0' to 5'	Brown Sandy SILT (ML)	IIIC2	Dry	9	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-218.
B-218	552+00	72' LT. C/L	9/24/07	0' to 5'	Gray silty clayey SAND (SC-SM) with some organics	IIIC2	Dry	9	2' left off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-219	553+00	66' RT. C/L	9/18/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB2	Dry	3	2' right off shoulder in grass, 810.02 and corrosivity samples collected
					Topsoil not measured at this location				1' of gravel
B-220	553+00	10' LT. C/L	9/13/07	0 to 3"	Topsoil	IIIC2	Dry	9	Soil similar to boring B-223.
				3" to 5'	Tan Silty Sandy CLAY (CL)				
B-221	557+00	82' LT. C/L	9/21/07	0' to 5'	Brown Sandy Silty CLAY (CL)	IIIC3	Dry	10	2' left off shoulder in grass, 810.02 and CBR samples collected
				5' to 10'	Tan Sandy CLAY (CL) with possible alluvium				
					Topsoil not measured at this location				
B-222	558+00	66' RT. C/L	9/18/07	0 to 1"	Topsoil	IIIC2	Dry	9	2' right off shoulder in grass
				1" to 5'	Red Sandy Silty CLAY (CL)				Soil similar to boring B-223.
B-223	558+00	10' RT. C/L	9/13/07	0' to 5'	Tan Silty Sandy CLAY (CL)	IIIC2	Dry	9	810.02 sample collected
					Topsoil not measured at this location				
B-224	560+00	90' LT. C/L	9/21/07	0' to 5'	Reddish Brown Sandy Silty CLAY (CL)	IIIC3	Dry	9	2' left off shoulder in grass.
				5' to 10'	Brown Silty CLAY (CL)		Dry	9	Soil similar to boring B-221.
					Topsoil not measured at this location				
B-225	563+00	62' RT. C/L	9/18/07	0' to 5'	Brown silty clayey SAND (SC-SM)	IIIC3	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected
					Topsoil not measured at this location				6" of asphalt
B-226	563+00	5' LT. C/L	9/13/07	0 to 2"	Topsoil	IIIC3	Dry	10	Corrosivity sample collected
				2" to 5'	Tan/Brown sandy silty CLAY (CL)				Soil similar to boring B-227.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-227	563+00	92' LT. C/L	9/21/07	0' to 5'	Tan Sandy Silty CLAY (CL)	IIIC3	Dry	10	In shoulder, 2' right of left edge, asphalt appears to be relatively new
				5' to 10'	Brown Silty CLAY (CL)		Dry	10	810.02 sample collected
					Topsoil not measured at this location				4" of asphalt, 1' of gravel
B-228	566+00	100' LT. C/L	9/21/07	0 to 1"	Topsoil	IIIC3	Dry	10	2' left off shoulder in grass , right of Townlake Parkway
				1" to 5'	Tan Silty CLAY (CL)				entrance ramp to I-575.
									810.02 sample collected
B-229	568+00	72' RT. C/L	9/18/07	0' to 5'	Brown Sandy SILT (ML)	IIB3	Dry	6	3' right off shoulder in grass
					Topsoil not measured at this location				1' of gravel
									Soil similar to boring B-230.
B-230	568+00	10' RT. C/L	9/13/07	0' to 5'	Brown Sandy SILT (ML)	IIB3	Dry	6	810.02 sample collected
					Topsoil not measured at this location				
B-231	570+70	74' RT. C/L	9/18/07	0' to 5'	Brown sandy clayey SAND (SC-SM)	IIIC1	Dry	8	2' right off shoulder in grass, offset 30' South due to bridge
					Topsoil not measured at this location				810.02 sample collected
B-232	571+00	5' LT. C/L	9/13/07	0' to 5'	Brown silty clayey SAND (SC-SM)	IIIC1	Dry	3	Soil similar to boring B-231.
					Topsoil not measured at this location				
B-233	571+00	78' LT. C/L	9/21/07	0' to 5'	Brown silty clayey SAND (SC-SM)	IIIC1	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-231.
B-234	576+00	62' RT. C/L	9/18/07	0 to 3"	Topsoil	IIIC2	Dry	9	In shoulder, 1' left of right edge
				3" to 5'	Brown Sandy Clayey SILT (ML)				8" of asphalt and 1' of gravel
									Soil similar to boring B-236.
B-235	576+00	10' RT. C/L	9/13/07	0 to 2"	Topsoil	IIIC2	Dry	9	Soil similar to boring B-236.
				2" to 5'	Red Sandy Clayey SILT (ML)				
B-236	576+00	74' LT. C/L	9/21/07	0 to 2"	Topsoil	IIIC2	Dry	9	In shpulder, 2'right of left edge, right before bridge
				2" to 5'	Brown sandy clayey SILT (ML)				810.02 sample collected
									6" of asphalt, 1' of gravel
B-237	581+00	64' RT. C/L	9/18/07	0' to 5'	Brown sandy clayey SILT (ML) with rock fragments	IIB3	Dry	6	In shoulder, 2' left of right edge, offset due to guardrail.
					Topsoil not measured at this location				6" of asphalt and 1' of gravel
									Soil similar to boring B-238.
B-238	581+00	10' LT. C/L	9/13/07	0' to 5'	Red Sandy Clayey SILT (ML)	IIB3	Dry	6	810.02 and corrosivity samples collected
					Topsoil not measured at this location				
B-239	581+00	74' LT. C/L	9/21/07	0' to 5'	Brown Sandy Clayey SILT (ML)	IIB3	Dry	6	2' left off shoulder in grass, just pass Townlake Parkway Overpass
					Topsoil not measured at this location				Soil similar to boring B-238.
B-240	586+00	62' RT. C/L	9/18/07	0 to 2"	Topsoil	IIB3	Dry	3	2' right off edge of shoulder in grass, 810.02 sample collected
				2" to 5'	Tan Silty Clayey SAND (SC-SM)				

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-241	586+00	15' RT. C/L	9/13/07	0 to 4"	Topsoil	IIB3	Dry	3	Soil similar to boring B-240.
				4" to 5'	Tan/Brown Silty Clayey SAND (SC-SM)				
B-242	586+00	74' LT. C/L	9/21/07	0 to 2"	Topsoil	IA2	Dry	3	2' left off shoulder in grass
				2" to 5'	Tan Silty Fine SAND (SM)				Soil similar to boring B-172.
B-243	591+00	62' RT. C/L	9/18/07	0' to 5'	Reddish Brown Sandy Clayey SILT (ML)	IIB4	Dry	7	2' right off edge of shoulder in grass.
					Topsoil not measured at this location				Soil similar to boring B-244.
B-244	591+00	10' LT. C/L	9/13/07	0' to 5'	Red Sandy Clayey SILT (ML)	IIB4	Dry	7	CBR and moisture samples collected
					Topsoil not measured at this location				
B-245	591+00	70' LT. C/L	9/21/07	0' to 5'	Red Sandy Clayey SILT (ML)	IIB4	Dry	7	In shoulder, 2' right of left edge, 810.02 sample collected
					Topsoil not measured at this location				8" of asphalt, 1' of gravel
B-246	596+00	58' RT. C/L	9/18/07	0 to 1"	Topsoil	IIB4	Dry	3	In shoulder, 2' left of right edge, 810.02 and CBR samples collected
				1" to 5'	Brown Silty Clayey SAND (SC-SM)				6" of asphalt and 1' of gravel
B-247	596+00	10' RT. C/L	9/13/07	0 to 5"	Topsoil	IIB4	Dry	3	810.02 sample collected
				5" to 5'	Tan/Brown Silty Clayey SAND (SC-SM)				
B-248	596+00	74' LT. C/L	9/21/07	0 to 1"	Topsoil	IIB4	Dry	3	2' left off shoulder in grass
				1" to 5'	Brown Silty Clayey SAND (SC-SM)				Soil similar to boring B-246.
B-249	601+00	80' RT. C/L	9/18/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB3	Dry	3	2' right off edge of shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-250	601+00	15' LT. C/L	9/13/07	0' to 5'	Red Silty Clayey SAND (SC-SM)	IIB3	Dry	3	Soil similar to boring B-249.
					Topsoil not measured at this location				
B-251	601+00	100' LT. C/L	9/21/07	0' to 6'	Brown Silty Clayey SAND (SC-SM) with rock fragments	IIB3	Dry	3	2' left off shoulder in grass on the right (west) side of Exit 8 exit ramp
					Topsoil not measured at this location				Soil similar to boring B-249

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-252	606+00	66' RT. C/L	9/18/07	0 to 3"	Topsoil	IIIC2	Dry	3	2' right off edge of shoulder in grass, 810.02 sample collected
				3" to 5'	Tan Silty Clayey SAND (SC-SM)				8" topsoil
B-253	606+00	10' RT. C/L	9/13/07	0 to 2"	Topsoil	IIIC2	Dry	3	Soil similar to boring B-252.
				2" to 5'	Tan/Brown Silty Clayey SAND (SC-SM)				
B-254	606+00	70' LT. C/L	9/21/07	0 to 1"	Topsoil	IIB3	Dry	3	In shoulder, 2' right of left edge, 810.02 sample collected
				1" to 5'	Reddish Brown Silty SAND (SM)				9" of asphalt, 1' of gravel
B-255	611+00	70' RT. C/L	9/18/07	0' to 5'	Brown Silty SAND (SM) with mica	IIB3	Dry	3	In shoulder, 2' left of right edge.
					Topsoil not measured at this location				6" asphalt and 1' of gravel
									Soil similar to boring B-256.
B-256	611+00	5' LT. C/L	9/13/07	0' to 5'	Brown Silty SAND (SM) with rock fragments	IIB3	Dry	3	810.02 sample collected
					Topsoil not measured at this location				
B-257	611+00	74' LT. C/L	9/21/07	0' to 5'	Tan Silty SAND (SM)	IIB3	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-256.
B-258	615+00	72' LT. C/L	9/21/07	0 to 1"	Topsoil	IIIC1	Dry	3	2' left off shoulder in grass, offset 100' South due to guardrail
				1" to 5'	Reddish Brown Silty Clayey SAND (SC-SM)				810.02 and corrosivity samples collected
B-259	616+00	74' RT. C/L	9/18/07	0 to 1"	Topsoil	IIIC1	Dry	3	2' right off shoulder in grass, 810.02 and corrosivity samples collected
				1" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-260	616+10	10' RT. C/L	9/13/07	0 to 2"	Topsoil	IIIC1	Dry	3	Offset 10' North due to storm drain
				2" to 5'	Tan/Brown Silty Clayey Sand (SC-SM)				Soil similar to boring B-259.
B-261	621+00	74' RT. C/L	9/18/07	0' to 5'	Light Brown Silty Clayey SAND (SC-SM)	IIIC1	Dry	3	2' right off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-259.
B-262	621+00	10' LT. C/L	9/13/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIIC1	Dry	3	Soil similar to boring B-259.
					Topsoil not measured at this location				
B-263	621+00	70' LT. C/L	9/21/07	0' to 5'	Tan/Brown Silty Clayey SAND (SC-SM)	IIIC1	Dry	3	In shoulder, 2' right of left edge, due to guardrail
					Topsoil not measured at this location				810.02 sample collected
									6" of asphalt, 1' of gravel

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-264	626+00	72' RT. C/L	9/18/07	0 to 2"	Topsoil	IIIC2	Dry	3	In shoulder, 2' left of right edge.
				2" to 5'	Tan Silty SAND (SM)				6" asphalt and 1' of gravel
									Soil similar to boring B-267.
B-265	626+00	5' RT. C/L	9/13/07	0 to 2"	Topsoil	IIB4	Dry	3	810.02 sample collected
				2" to 5'	Red/Brown Silty Clayey SAND (SC-SM)				
B-266	626+00	66' LT. C/L	9/21/07	0 to 4"	Topsoil	IIIC2	Dry	3	In shoulder, 2' right of left edge.
				4" to 5'	Tan/Brown Silty SAND (SM)				5" of asphalt, 8" of gravel
									Soil similar to boring B-267.
B-267	631+00	76' RT. C/L	9/18/07	0' to 5'	Brown Silty SAND (SM)	IIIC2	Dry	3	2' right off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-268	631+00	10' LT. C/L	9/13/07	0' to 5'	Brown Silty SAND (SM)	IIIC2	Dry	3	810.02 and corrosivity samples collected
					Topsoil not measured at this location				
B-269	631+00	70' LT. C/L	9/21/07	0' to 5'	Tan/Brown Silty SAND (SM)	IIIC2	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-268.
B-270	636+00	76' RT. C/L	9/18/07	0 to 1"	Topsoil	IIB4	Dry	3	2' right off shoulder in grass
				1" to 5'	Brown Silty Clayey SAND (SC-SM)				Soil similar to boring B-270.
B-271	636+00	10' RT. C/L	9/13/07	0 to 2"	Topsoil	IIB4	Dry	3	Soil similar to boring B-270.
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-272	636+00	70' LT. C/L	9/20/07	0 to 1"	Topsoil	IIB4	Dry	3	2' left off shoulder in grass, 810.02 sample collected
				1" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-273	639+00	66' LT. C/L	9/20/07	0' to 5'	Tan Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' right of left edge.
					Topsoil not measured at this location				7" of asphalt, 1' of gravel
									Soil similar to boring B-272.
B-274	641+00	70' RT. C/L	9/18/07	0' to 5'	Reddish Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' left of right edge, 6" asphalt and 1' of gravel
					Topsoil not measured at this location				Soil similar to boring B-275.
B-275	641+00	10' LT. C/L	9/13/07	0' to 5'	Brown Silty Clayey SAND (SC-SM) with	IIB4	Dry	3	810.02 sample collected
					some organics at 5'.				
					Topsoil not measured at this location				
B-276	642+00	70' LT. C/L	9/20/07	0' to 6'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-275.
B-277	644+00	70' RT. C/L	9/19/07	0 to 2"	Topsoil	IIIC1	Dry	3	2' right off edge of shoulder in grass, 810.02 sample collected
				2" to 5'	Red Silty Clayey SAND (SC-SM)				

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-278	646+00	10' RT. C/L	9/13/07	0 to 1"	Topsoil	IIIC1	Dry	3	Soil similar to boring B-279.
				1" to 5'	Tan/Brown Silty Clayey SAND (SC-SM)				
B-279	646+50	70' LT. C/L	9/20/07	0 to 2"	Topsoil	IIIC1	Dry	3	2' left off shoulder in grass, offset 50' North due to guardrail
				2" to 5'	Red Silty Clayey SAND (SC-SM)				810.02 sample collected
B-280	648+00	66' RT. C/L	9/19/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIIC1	Dry	3	2' right off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-281.
B-281	651+00	62' RT. C/L	9/19/07	0' to 6'	Tan Silty Clayey SAND (SC-SM)	IIIC1	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected
					Topsoil not measured at this location				6" asphalt, 1' of gravel
B-282	651+00	12' LT. C/L	9/17/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	810.02 sample collected
					Topsoil not measured at this location				
B-283	651+00	72' LT. C/L	9/20/07	0' to 6'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' right of left edge.
					Topsoil not measured at this location				8" of asphalt, 1' of gravel
									Soil similar to boring B-282.
B-284	654+00	82' LT. C/L	9/20/07	0 to 4"	Topsoil	IIB3	Dry	3	2' left off shoulder in grass, 810.02 sample collected
				4" to 6'	Brown Silty Clayey SAND (SC-SM) with rock fragments				
B-285	656+00	66' RT. C/L	9/19/07	0 to 1"	Topsoil	IIB3	Dry	3	2' right off shoulder in grass
				1" to 5'	Light Brown Silty Clayey SAND (SC-SM)				Soil similar to boring B-284.
B-286	656+00	10' RT. C/L	9/17/07	0 to 1"	Topsoil	IIB3	Dry	3	Soil similar to boring B-284.
				1" to 5'	Light Brown Silty Clayey SAND (SC-SM)				
B-287	657+00	82' LT. C/L	9/20/07	0' to 7'	Tan Silty Clayey SAND (SC-SM) with rounded stones	IIB3	Dry	3	2' left off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-284.
B-288	659+00	66' RT. C/L	9/19/07	0' to 7'	Brown Silty Clayey SAND (SC-SM)	IIIC2	Dry	3	2' right off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				1' of gravel at top
B-289	661+00	10' LT. C/L	9/17/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	810.02 sample collected
					Topsoil not measured at this location				
B-290	662+00	62' RT. C/L	9/19/07	0' to 5'	Tan/Brown Silty Clayey SAND (SC-SM)	IIIC1	Dry	3	In shoulder, 2' left of right edge.
					Topsoil not measured at this location				6" of asphalt and 1' of gravel
									Soil similar to boring B-291.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-291	662+00	78' LT. C/L	9/20/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIIC1	Dry	3	In shoulder, 2' right of left edge, 810.02 sample collected
					Topsoil not measured at this location				6" of asphalt, 1' of gravel
B-292	666+00	10' RT. C/L	9/17/07	0 to 1"	Topsoil	IIIC1	Dry	8	CBR sample collected
				1" to 5'	Red Sandy Clayey SILT (ML)				
B-293	667+00	64' RT. C/L	9/19/07	0 to 2"	Topsoil				
	667+00	64' RT. C/L	9/19/07	2" to 3.5'	Tan Silty Clayey Sand (SC-SM)	IIB3	Dry	3	2' into grass, 810.02 sample collected. Auger refusal at 3.5ft
	666+90	64' RT. C/L	9/19/07	0' to 5'	Tan Silty Clayey Sand (SC-SM)		Dry	3	offset 10' South, encountered weathered rock at depth of 5'
	667+10	64' RT. C/L	9/19/07	0' to 5'	Tan Silty Clayey Sand (SC-SM)		Dry	3	Offset 10' North due to encountering rock at Sta. 667+00
B-294	667+00	72' LT. C/L	9/20/07	0 to 3"	Topsoil	IIB3	Dry	3	2' into grass
				3" to 5'	Brown Silty Clayey Sand (SC-SM)				Soil similar to boring B-293
B-295	671+00	10' LT. C/L	9/17/07	0' to 5'	Brown Sandy SILT (ML)	IIIC1	Dry	8	810.02 sample collected
					Topsoil not measured at this location				
B-296	672+00	68' RT. C/L	9/19/07	0' to 5'	Brown Sandy SILT (ML)	IIIC2	Dry	9	5' into grass on right (East) side of guardrail
					Topsoil not measured at this location				810.02 and corrosivity samples collected
B-297	672+00	72' LT. C/L	9/20/07	0' to 5'	Brown Sandy SILT (ML)	IIIC2	Dry	9	2' left off edge of shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-298	675+90	10' RT. C/L	9/17/07	0 to 2"	Topsoil	IIB4	Dry	7	Offset 10' South due to Storm water drain
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				Soil similar to boring B-299.
B-299	677+00	62' RT. C/L	9/19/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected
					Topsoil not measured at this location				
B-300	677+00	80' LT. C/L	9/20/07	0 to 5"	Topsoil	IIB4	Dry	3	In shoulder, 2' right of left edge, corrosivity sample collected
				5" to 5'	Reddish Brown Silty Clayey SAND (SC-SM)				6" of asphalt, 1' of gravel
									Soil similar to boring B-299.
B-301	680+00	60' RT. C/L	9/19/07	0' to 6'	Red Sandy SILT (ML)	IIB3	Dry	6	In shoulder, 2' left of right edge due to guardrail
					Topsoil not measured at this location				8' of asphalt, 1' of gravel
									Soil similar to boring B-301.
B-302	681+00	10' LT. C/L	9/17/07	0' to 5'	Brown Sandy SILT (ML)	IIB3	Dry	6	810.02 sample collected
					Topsoil not measured at this location				
B-303	682+00	82' LT. C/L	9/20/07	0' to 5'	Tan Silty SAND (SM)	IA2	Dry	3	2' left off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				Weathered rock encountered at 5' depth

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-304	685+00	64' RT. C/L	9/19/07	0 to 1"	Topsoil	IIB4	Dry	3	2' right of shoulder in grass, 810.02 sample collected
				1" to 5'	Light Brown Silty Clayey SAND (SC-SM)				
B-305	686+00	10' RT. C/L	9/17/07	0 to 2"	Topsoil	IIB4	Dry	3	Soil similar to boring B-304.
				2" to 5'	Light Brown Silty Clayey SAND (SC-SM) with rock fragments				
B-306	687+00	76' LT. C/L	9/20/07	0 to 4"	Topsoil	IIB4	Dry	3	2' left off shoulder in grass
				4" to 5'	Red Silty Clayey SAND (SC-SM)				Soil similar to boring B-304.
B-307	690+00	64' RT. C/L	9/19/07	0' to 5'	Red Sandy Silty CLAY (CL) with rock fragments	IIB4	Dry	7	2' right off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-309.
B-308	691+00	5' LT. C/L	9/17/07	0' to 5'	Brown Sandy Clayey SILT (ML)	IIIC3	Dry	10	810.02 sample collected
					Topsoil not measured at this location				
B-309	692+00	68' LT. C/L	9/20/07	0' to 5'	Reddish Brown Sandy Silty CLAY (CL)	IIB4	Dry	7	2' left off edge of pavement in shoulder, 810.02 sample collected
					Topsoil not measured at this location				6" of asphalt, 1' of gravel
B-310	695+00	58' RT. C/L	9/19/07	0 to 3"	Topsoil	IIB4	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected
				3" to 5'	Red Silty Clayey SAND (SC-SM)				8" of asphalt, 1' of gravel
B-311	696+00	5' RT. C/L	9/17/07	0 to 2"	Topsoil	IIB4	Dry	3	Soil similar to boring B-310.
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-312	697+00	70' LT. C/L	9/20/07	0 to 4"	Topsoil	IIIC1	Dry	3	2' left off shoulder in grass, 1.5' of gravel at surface
				4" to 7'	Reddish Brown Silty Clayey SAND (SM) with rock fragments				Soil similar to boring B-313.
B-313	700+00	64' RT. C/L	9/19/07	0 to 2"	Topsoil	IIIC1	Dry	3	2' right of shoulder in grass, CBR sample collected
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-314	700+00	68' LT. C/L	9/20/07	0 to 1"	Topsoil	IIIC1	Dry	3	2' left off shoulder in grass, 1' gravel at surface
				1" to 6'	Reddish Brown Silty Clayey SAND (SC-SM)				810.02 sample collected
B-315	700+80	10' LT. C/L	9/17/07	0' to 5'	Brown Sandy SILT (ML) with rock fragments		Dry		Offset 20' South, rock outcrops ended
	701+00	10' LT. C/L	9/17/07	0' to 4'	Partially weathered rock (PWR)		Dry		No sample collected
					Auger refusal at 4'				Offset 10' North due to existing rock
	701+10	10' LT. C/L	9/17/07	0'-3'	Partially weathered rock (PWR)		Dry		No sample collected, offset 20' North due to existing rock
					Auger refusal at 3'				
	701+30	10' LT. C/L	9/17/07	0' to 5'	Brown Silty Clayey SAND (SC-SM) with rock fragments	IIB3	Dry	3	810.02 sample collected
					Topsoil not measured at this location				

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-316	703+00	68' LT. C/L	9/20/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB3	Dry	3	In shoulder, 2' right of left edge.
					Topsoil not measured at this location				6" of asphalt, 1.5' of gravel
									Soil similar to boring B-315.
B-317	704+00	64' RT. C/L	9/19/07	0' to 5'	Red Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' left of right edge due to guardrail and Little River Bridge
					Topsoil not measured at this location				810.02 sample collected
									8" of asphalt, 1' of gravel
B-318	704+00	10' RT. C/L	9/17/07	0 to 2"	Topsoil	IIB3	Dry	3	Next to Little River Bridge
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				Soil similar to boring B-315.
B-349	708+00	70' LT. C/L	9/20/07	0 to 5"	Topsoil	IIB4	Dry	3	2' left off shoulder in grass, 810.02 sample collected, 1' crushed stone
				5" to 5'	Brown Silty Clayey SAND (SC-SM) with PWR at 4.5'				at surface.
									Right before Little River Bridge
B-319	711+00	68' RT. C/L	9/19/07	0 to 2"	Topsoil	IIB4	Dry	3	2' right of shoulder in grass, offset 100' North due to Bridge Over Little River
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				Soil similar to boring B-321.
B-320	710+00	70' LT. C/L	9/20/07	0' to 8'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	1	2' left off shoulder in grass
									Soil similar to boring B-321
B-321	710+00	10' LT. C/L	9/17/07	0 to 3"	Topsoil	IIB4	Dry	3	810.02 sample collected
				3" to 5'	Light Brown Silty Clayey SAND (SC-SM)				
B-322	715+00	72' RT. C/L	9/19/07	0' to 5'	Red Sandy Silty CLAY (CL)	IIIC1	Dry	8	5' right of shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-323	715+00	10' RT. C/L	9/17/07	0' to 5'	Red/Brown Sandy Silty CLAY(CL) and PWR	IIIC1	Dry	8	Soil similar to boring B-322
B-324	715+00	66' LT. C/L	9/20/07	0 to 4"	Topsoil	IIIC1	Dry	8	In shoulder, 2' right of left edge.
				4" to 5'	Red Silty Sandy CLAY (CL)				5" of asphalt, 1' of gravel
									Soil similar to boring B-322.
B-325	720+00	62' RT. C/L	9/19/07	0' to 5'	Reddish Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 3' left of right edge.
					Topsoil not measured at this location				8" of asphalt
									Soil similar to boring B-327.
B-326	720+00	5' LT. C/L	9/17/07	0' to 5'	Reddish Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	Corrosivity sample collected
					Topsoil not measured at this location				Soil similar to boring B-327.
B-327	720+00	70' LT. C/L	9/20/07	0' to 5'	Brown Silty Clayey SAND (SC-SM) with PWR at 5'	IIB4	Dry	7	2' left off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-328	725+00	69' RT. C/L	9/19/07	0 to 1"	Topsoil	IIB3	Dry	6	5' right off shoulder in grass, 810.02 and corrosivity samples collected
				1" to 5'	Brown Sandy Clayey SILT (ML)				
B-329	725+00	10' RT. C/L	9/17/07	0 to 2"	Topsoil	IIB4	Dry	3	810.02 sample collected
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-330	725+00	70' LT. C/L	9/20/07	0 to 2"	Topsoil	IIB4	Dry	3	2' left off shoulder in grass
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				Soil similar to boring B-329.
B-331	730+00	69' RT. C/L	9/19/07	0' to 5'	Brown Silty Clayey SAND (SC-SM) with rock fragments	IIIC2	Dry	3	5' right off shoulder in grass
					Topsoil not measured at this location				Soil similar to boring B-333.
B-332	730+00	10' LT. C/L	9/17/07	0' to 5'	Brown Silty Clayey SAND (SC-SM) with rock fragments	IIIC2	Dry	3	Soil similar to boring B-333.
					Topsoil not measured at this location				
B-333	730+00	66' LT. C/L	9/20/07	0' to 5'	Brown Silty Clayey SAND (SC-SM) with rock fragments	IIIC2	Dry	3	In shoulder, 2' right of left edge due to guardrail, 810.02 sample collected
					Topsoil not measured at this location				6" of asphalt, 1.5' of gravel
B-334	735+00	68' RT. C/L	9/19/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' left of right edge, 810.02 sample collected
					Topsoil not measured at this location				6" of asphalt, 1' of gravel
B-335	735+00	10' RT. C/L	9/17/07	0 to 2"	Topsoil	IIIC1	Dry	3	810.02 sample collected
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-336	735+00	74' LT. C/L	9/20/07	0 to 2"	Topsoil	IIIC1	Dry	3	2' left off shoulder in grass
				2" to 5'	Brown Silty Clayey SAND (SC-SM) with rock fragments				Soil similar to boring B-335.
B-337	740+00	72' RT. C/L	9/19/07	0 to 1"	Topsoil	IIB4	Dry	3	4' right off edge of shoulder in grass
				1" to 5'	Tan Silty Clayey SAND (SC-SM)				Soil similar to boring B-334.
B-338	740+00	10' LT. C/L	9/17/07	0' to 5'	Brown Silty Clayey SAND (SC-SM) with mica and PWR	IIB3	Dry	3	Soil similar to boring B-339.
					Topsoil not measured at this location				
B-339	741+00	84' LT. C/L	9/20/07	0' to 5'	BrownSilty Clayey SAND (SC-SM)	IIB3	Dry	3	In shoulder, 2' right of left edge, offset 100' North due to gas line
					Topsoil not measured at this location				810.02 sample collected

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 Mainline Stations 80+00 to 755+00

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
B-340	745+00	70' RT. C/L	9/19/07	0 to 2"	Topsoil	IIB3	Dry	3	3' right off edge of shoulder in grass
				2" to 5'	Brown Silty Clayey SAND (SC-SM) with PWR at 5'				810.02 sample collected
B-341	745+00	5' RT. C/L	9/17/07	0 to 2"	Topsoil	IIB3	Dry	3	810.02 sample collected
				2" to 5'	Brown Silty Clayey SAND (SC-SM)				
B-342	745+00	70' LT. C/L	9/20/07	0 to 2"	Topsoil	IIB3	Dry	3	2' left off shoulder in grass
				2" to 5'	Brown Silty Clayey SAND (SC-SM) with rock fragments				Soil similar to boring B-340.
B-343	750+00	62' RT. C/L	9/19/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	In shoulder, 2' left of right edge.
					Topsoil not measured at this location				6" of asphalt, 1' of gravel
									Soil similar to boring B-344.
B-344	750+00	15' RT. C/L	9/17/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	810.02 and CBR samples collected
					Topsoil not measured at this location				
B-345	750+00	68' LT. C/L	9/20/07	0' to 5'	Brown Silty Clayey SAND (SC-SM)	IIB4	Dry	3	2' left off shoulder in grass, 810.02 sample collected
					Topsoil not measured at this location				
B-346	755+00	66' RT. C/L	9/19/07	0 to 2"	Topsoil	IIIC1	Dry	3	2' into grass, CBR sample collected
				2" to 5'	Reddish Silty Clayey SAND (SC-SM)				
B-347	755+00	10' LT. C/L	9/17/07	0 to 3"	Topsoil	IIB4	Dry	3	810.02 sample collected
				3" to 5'	Brown Silty SAND (SM)				
B-348	755+00	64' LT. C/L	9/20/07	0 to 4"	Topsoil	IIB4	Dry	3	In shoulder, 2' right of left edge.
				4" to 5'	Brown Silty SAND (SM)				6" of asphalt, 1' of gravel
									Soil similar to boring B-347.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties, Georgia

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 , Ramps & Crossroads

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
R-2	14+50	Ramp B	10/12/07	0' to 1"	Topsoil				SB off ramp to I-575.
		Barret Pkwy		1" to 7'	Brown silty clayey SAND (SC-SM) with rock fragments	IIIC1	Dry	3	In grass, 1' right off edge of shoulder.
									810.02 and corrosivity samples collected.
R-4	20+00	Ramp B	10/12/07	0 to 1"	Topsoil				SB off ramp to I-575.
		Barret Pkwy		1" to 8'	Brown silty clayey SAND (SC-SM) with rock fragments	IIIC1	Dry	3	In grass, 1' right off edge of shoulder.
									810.02 , CBR , moisture and USCS samples collected.
R-1	31+00	Ramp D	10/9/07	0 to 2"	Topsoil				NB on-ramp to I-575.
		Barret Pkwy		2" to 6'	Moist brown silty clayey SAND (SC-SM)	IIB4	Dry	3	In grass, 5' right off edge of shoulder.
									810.02 and corrosivity samples collected.
R-3	40+00	Ramp D	10/9/07	0 to 1"	Topsoil				NB on-ramp to I-575.
		Barret Pkwy		1" to 7'	Tan red moist silty clayey SAND (SC-SM)	IIB3	Dry	3	In grass, 4' right off edge of shoulder.
					Dark brown silty clayey SAND (SC-SM) after 3' depth				810.02 sample collected.
R-12	10+00	Ramp I	10/12/07	0 to 2"	Topsoil				SB on-ramp to I-575.
		Chastain Rd.		2" to 6'	Red sandy clayey SILT (ML), moist	IIB4	Dry	7	In grass, 7' right off edge of shoulder.
									810.02 sample collected.
R-13	14+00	Ramp I	10/12/07	0 to 1"	Topsoil				SB on-ramp to I-575.
		Chastain Rd.		1" to 5'	Red sandy clayey SILT (ML), moist	IIB4	Dry	7	In grass, 1' right off edge of shoulder.
									810.02 and corrosivity samples collected.
R-15	12+00	Ramp J	10/11/07	0 to 2"	Topsoil				SB off-ramp to I-575.
		Chastain Rd.		2" to 5'	Red to dark brown sandy clayey silt (ML)	IIB4	Dry	7	In grass, 4' right off edge of shoulder.
									810.02 sample collected.
R-18	20+00	Ramp J	10/11/07	0 to 3"	Topsoil				SB off-ramp to I-575.
		Chastain Rd.		3" to 6'	Red to dark brown silty clayey SAND (SC-SM)	IIB4	Dry	3	In grass, 3' right off edge of shoulder.
									810.02, CBR, moisture and USCS samples collected.
R-11	30+00	Ramp K	10/9/07	0 to 1"	Topsoil				NB off-ramp to I-575.
		Chastain Rd.		1" to 9'	Tan brown moist sandy clayey silt (ML)	IIB4	Dry	7	In grass, 4' right off edge of shoulder.
				9' to 12'	Brown fat CLAY (CH), wet		Dry	11	810.02 sample collected.
R-14	37+00	Ramp K	10/9/07	0 to 1"	Topsoil				NB off-ramp to I-575.
		Chastain Rd.		1" to 7'	Red brown sandy clayey SILT (ML), moist	IIB4	Dry	7	In grass, 10' right off edge of shoulder.
									810.02, CBR, moisture and USCS samples collected.
R-16	32+00	Ramp L	10/9/07	0 to 3"	Topsoil				NB on-ramp to I-575.
		Chastain Rd.		3" to 2'	Tan red fine sandy SILT (ML)	IIB3	Dry	6	In grass, 4' right off edge of shoulder.
				2' to 5'	Dark brown sandy SILT (ML) with trace of clay, rock fragments		Dry	6	810.02 and corrosivity samples collected.
R-17	40+00	Ramp L	10/9/07	0 to 2"	Topsoil				NB on-ramp to I-575.
		Chastain Rd.		2" to 2'	Sandy gravel (GP)		Dry	2	In grass, 3' right off edge of shoulder.
				2' to 8'	Dark brown moist sandy clay (CL)	IIB4	Dry	7	810.02 sample collected.
R-19	11+00	Ramp M	10/11/07	0 to 1"	Topsoil				SB on-ramp to I-575.
		Bells Ferry Rd.		1" to 5'	Brown moist sandy clayey SILT (ML)	IIB4	Dry	7	In grass, 4' right off edge of shoulder.
									810.02 sample collected.
R-22	22+00	Ramp M	10/11/07	0 to 2"	Topsoil				SB on-ramp to I-575.
		Bells Ferry Rd.		2" to 5'	Dark brown sandy SILT (ML) with rock fragments, moist	IIB4	Dry	7	In grass, 3' right off edge of shoulder next to guardrail.
									810.02 and corrosivity samples collected.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties, Georgia

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 , Ramps & Crossroads

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
R-23	12+00	Ramp N	10/11/07	0 to 1"	Topsoil				SB off-ramp to I-575.
		Bells Ferry Rd.		1" to 5'	Dark brown sandy SILT (ML)	IIB4	Dry	7	In grass, 3' right off edge of shoulder.
				5' to 7'	Dark brown sandy CLAY (CL)		Dry	7	810.02 sample collected.
R-26	20+00	Ramp N	10/11/07	0 to 1"	Topsoil				SB off-ramp to I-575.
		Bells Ferry Rd.		1" to 8'	Brown sandy SILT (ML) with rock fragments	IIB4	Dry	7	In grass, 3' right off edge of shoulder.
									810.02 , CBR , moisture and USCS samples collected.
R-20	30+00	Ramp O	10/10/07	0 to 2"	Topsoil				NB off-ramp to I-575.
		Bells Ferry Rd.		2" to 5'	Dark brown sandy CLAY (CL)	IIB4	Dry	7	In grass, 2' right off edge of shoulder.
									810.02 and corrosivity samples collected.
R-21	37+00	Ramp O	10/10/07	0 to 1"	Topsoil				NB off-ramp to I-575.
		Bells Ferry Rd.		1" to 5'	Dark brown sandy CLAY (CL)	IIB4	Dry	7	In grass, 3' right off edge of shoulder.
									810.02 , CBR , moisture and USCS samples collected.
R-24	32+00	Ramp P	10/10/07	0 to 1"	Topsoil				NB on-ramp to I-575.
		Bells Ferry Rd.		1" to 4'	Dark brown clayey SAND (SC)	IA2	Dry	3	In grass, 3' right off edge of shoulder.
				4' to 6'	Gray fine SAND (SP) with rock fragments. Auger refusal at 6'.		Dry	2	810.02 and corrosivity samples collected.
R-25	40+00	Ramp P	10/10/07	0 to 1"	Topsoil				NB on-ramp to I-575.
		Bells Ferry Rd.		1" to 8'	Brown moist clayey SAND (SC) with rock fragments	IIB3	Dry	3	In grass, 3' right off edge of shoulder. Large rock outcrop 30 ft right (East)
					Auger refusal at 8'.				of auger location. 810.02 sample collected.
R-34	11+00	Ramp U	10/11/07	0 to 4"	Topsoil				SB on-ramp to I-575.
		Hwy . 92		4" to 5'	Brown sandy SILT (ML) with trace of clay , moist	IIB4	Dry	7	In grass, 4' right off edge of shoulder.
									810.02 sample collected.
R-36	19+00	Ramp U	10/11/07	0 to 3"	Topsoil				SB on-ramp to I-575.
		Hwy . 92		3" to 5'	Brown silty clayey SAND (SC-SM)	IIB3	Dry	3	In grass, 4' right off edge of shoulder, next to guardrail.
									810.02 and corrosivity samples collected.
R-39	14+00	Ramp V	10/11/07	0 to 1"	Topsoil				SB off-ramp to I-575.
		Hwy . 92		1" to 12'	Red sandy clayey SILT (ML)	IIB3	Dry	6	In grass, 6' right off edge of shoulder.
									810.02 sample collected.
R-41	20+00	Ramp V	10/11/07	0 to 1"	Topsoil				SB off-ramp to I-575.
		Hwy . 92		1" to 20'	Red brown sandy clayey SILT (ML)	IIIC2	Dry	9	In grass, 3' right off edge of shoulder.
									810.02, CBR, moisture and USCS samples collected.
R-35	31+00	Ramp W	10/10/07	0 to 1"	Topsoil				NB off-ramp to I-575.
		Hwy . 92		1" to 5'	Brown silty clayey SAND (SC-SM) with rock fragments	IIIC1	Dry	3	In grass, 4' right off edge of shoulder.
									810.02 sample collected.
R-37	36+00	Ramp W	10/10/07	0 to 2"	Topsoil				NB off-ramp to I-575.
		Hwy . 92		2" to 5'	Brown silty clayey SAND (SC-SM) with rock fragments	IIB3	Dry	3	In grass, 4' right off edge of shoulder.
									810.02, CBR, moisture and USCS samples collected.
R-38	31+00	Ramp X	10/10/07	0 to 1"	Topsoil				NB on-ramp to I-575.
		Hwy . 92		1" to 10'	Brown sandy SILT (ML), with trace of clay.	IIB3	Dry	6	In dirt area , 4' right off edge of shoulder.
									810.02 and corrosivity samples collected.

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties, Georgia

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 , Ramps & Crossroads

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
R-40	39+00	Ramp X	10/10/07	0 to 1"	Topsoil				NB on-ramp to I-575.
		Hwy . 92		1" to 5'	Brown silty clayey SAND (SC-SM)	IIB3	Dry	3	In grass, 4' right off edge of shoulder.
									810.02 sample collected.
R-50	11+00	Ramp CC	10/11/07	0 to 3"	Topsoil				SB on-ramp to I-575.
		Towne Lake Pkwy		3" to 5'	Brown silty clayey SAND (SC-SM)	IIIC1	Dry	3	In grass, 4' right off edge of shoulder.
									810.02 sample collected.
R-52	17+00	Ramp CC	10/11/07	0 to 1"	Topsoil				SB on-ramp to I-575.
		Towne Lake Pkwy		1" to 6'	Dark brown silty clayey SAND (SC-SM) with rock fragments	IIB4	Dry	3	In grass area, 4' right off edge of shoulder.
									810.02 and corrosivity samples collected.
R-54	13+00	Ramp DD	10/11/07	0 to 3"	Topsoil				SB off-ramp to I-575.
		Towne Lake Pkwy		3" to 8'	Red sandy clayey SILT (ML), moist	IIIC2	Dry	9	In grass area, 4' right off edge of shoulder.
									810.02 sample collected.
R-56	20+00	Ramp DD	10/11/07	0 to 2"	Topsoil				SB off-ramp to I-575.
		Towne Lake Pkwy		2" to 5'	Red brown sandy clayey SILT (ML), moist	IIIC1	Dry	8	In grass, 4' right off edge of shoulder.
									810.02 , CBR , moisture and USCS samples collected.
R-51	30+00	Ramp EE	10/11/07	0 to 1"	Topsoil				NB off-ramp to I-575.
		Towne Lake Pkwy		1" to 5'	Red brown sandy clayey SILT (ML), moist	IIB4	Dry	7	In grass, 3' right off edge of shoulder.
									810.02 sample collected.
R-53	42+00	Ramp EE	10/11/07	0 to 2"	Topsoil				NB off-ramp to I-575.
		Towne Lake Pkwy		2" to 10'	Red to brown sandy clayey SILT (ML) , moist	IIIC2	Dry	9	In grass, 8' right off edge of shoulder.
									810.02 , CBR , moisture and USCS samples collected.
R-55	33+00	Ramp FF	10/10/07	0 to 1"	Topsoil				NB on-ramp to I-575.
		Towne Lake Pkwy		1" to 8'	Brown sandy clayey SILT (ML)	IIIC3	Dry	10	In grass, 3' right off edge of shoulder.
									810.02 and corrosivity samples collected.
R-57	40+00	Ramp FF	10/10/07	0 to 3"	Topsoil				NB on-ramp to I-575.
		Towne Lake Pkwy		3" to 12'	Brown silty clayey SAND (SC-SM)	IIIC3	Dry	3	In grass, 3' right off edge of shoulder.
									810.02 sample collected.
R-59	11+00	Ramp GG	10/10/07	0 to 2"	Topsoil				SB on-ramp to I-575.
		Sixes Rd.		2" to 6'	Brown to gray silty clayey SAND (SC-SM) with rock fragments	IIB4	Dry	3	In grass, 2' right off edge of shoulder.
					Auger refusal at 6'.				810.02 and corrosivity samples collected.
R-60	16+00	Ramp GG	10/10/07	0 to 2"	Topsoil				SB on-ramp to I-575.
		Sixes Rd.		2" to 8'	Dark brown silty clayey SAND (SC-SM) with rock fragments	IIB4	Dry	3	In grass, 2' right off edge of shoulder.
					Auger refusal at 8'.				810.02, CBR, moisture and USCS samples collected.
R-58	30+00	Ramp HH	10/10/07	0 to 2"	Topsoil				NB off-ramp to I-575.
		Sixes Rd.		2" to 5'	Dark brown silty clayey SAND (SC-SM) with rock fragments	IIB3	Dry	3	In grass, 5' right off edge of shoulder.
									810.02 and corrosivity samples collected.
R-61	38+00	Ramp HH	10/10/07	0 to 2"	Topsoil				NB off-ramp to I-575.
		Sixes Rd.		2" to 12'	Dark brown silty clayey SAND (SC-SM) with rock fragments	IIB3	Dry	3	In grass, 5' right off edge of shoulder.
									810.02, CBR, moisture and USCS samples collected.
R-45	31+50	Dupree Rd.	10/16/07	0 to 3"	Topsoil				20' South, West of I-575 overpass
		Crossroad		3" to 5'	Tan silty fine sand (SM)	IIB1	Dry	3	Soil similar to boring R-49

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties, Georgia

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 , Ramps & Crossroads

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
R-49	31+50	Dupree Rd.	10/16/07	0 to 1"	Topsoil				20' North, West of I-575 overpass.
		Crossroad		1" to 5'	Brown tan fine silty SAND (SM) with rock fragments	IIB1	Dry	3	810.02 sample collected.
R-44	34+50	Dupree Rd.	10/16/07	0 to 2"	Topsoil				30' South, West of I-575 overpass
		Crossroad		2" to 5'	Red silty fine SAND (SM)	IIB1	Dry	3	Soil similar to boring R-49
R-48	34+50	Dupree Rd.	10/16/07	0 to 2"	Topsoil				20' North, West of I-575 overpass
		Crossroad		2" to 5'	Dark brown silty SAND with rock fragments (SM)	IIB1	Dry	3	Soil similar to boring R-49
R-43	38+50	Dupree Rd.	10/16/07	0 to 3"	Topsoil				30' South, East of I-575 overpass
		Crossroad		3" to 5'	Brown silty clayey SAND (SC-SM)	IIB3	Dry	3	810.02 and CBR samples collected
R-47	38+50	Dupree Rd.	10/16/07	0 to 1"	Topsoil				30' North, East of I-575 overpass
		Crossroad		1" to 5'	Brown red silty clayey SAND (SC-SM)	IIB3	Dry	3	Soil similar to boring R-43
R-42	42+00	Dupree Rd.	10/16/07	0 to 2"	Topsoil				25' South, East of I-575 overpass
		Crossroad		2" to 5'	Brown red silty clayey SAND (SC-SM)	IIB3	Dry	3	Soil similar to boring R-43
R-46	42+00	Dupree Rd.	10/16/07	0 to 3"	Topsoil				25' North, East of I-575 overpass
		Crossroad		3" to 5'	Brown red silty clayey SAND (SC-SM)	IIB3	Dry	3	Soil similar to boring R-43
R-7	37+50	Big Shanty Rd.	10/12/07	0 to 2"	Topsoil				Offset to 24' South (right) instead of 35' South (right).
		Crossroad		2" to 5'	Red sandy clayey SILT (ML) with rock fragments	IIB3	Dry	6	810.02 sample collected
R-10	37+50	Big Shanty Rd.	10/12/07	0 to 2"	Topsoil				Offset to 19' North (left) instead of 30' North (left).
		Crossroad		2" to 5'	Red sandy clayey SILT (ML) with rock fragments	IIB3	Dry	6	Soil similar to boring R-7
R-6	42+50	Big Shanty Rd.	10/12/07	0 to 4"	Topsoil				Offset to 19' South (right) instead of 30' South (right).
		Crossroad		4" to 4'	Red clayey SAND (SC) with rock fragments	IIB2	Dry	3	810.02 and CBR samples collected
				4' to 5'	Moist gray sandy CLAY (CL)		Dry	7	
R-9	42+50	Big Shanty Rd.	10/12/07	0 to 3"	Topsoil				Offset to 11' North (left) instead of 30' North (left).
		Crossroad		3" to 4'	Red clayey SAND (SC) with rock fragments	IIB2	Dry	3	Soil similar to boring R-6
				4' to 5'					
R-5	47+00	Big Shanty Rd.	10/12/07	0 to 3"	Topsoil				Offset to 24' South (right) instead of 35' South (right).
		Crossroad		3" to 4'	Red clayey SAND (SC) with rock fragments	IIB2	Dry	3	Soil similar to boring R-6
R-8	47+00	Big Shanty Rd.	10/12/07	0 to 2"	Topsoil				Offset to 19' North (left) instead of 30' North (left).
		Crossroad		2" to 5'	Red sandy clayey SILT (ML)	IIB3	Dry	6	Soil similar to boring R-7

Soil Survey Log & Notes

Project Name: Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road
GDOT Project Number: CSNHS-0008-00(256)
P.I. NO: 0008256
Location: Cobb & Cherokee Counties, Georgia

Drill Rig: GeoProbe
Drilling Procedure: Solid Flight Auger
SPT Hammer Type: Not Used
Drill Crew: Willmer Engineering
Borehole Backfill: Auger Cuttings (Soil)

I-575 , Ramps & Crossroads

Boring Number	Station	Location	Date	Depth (ft)	Stratum Description	GDOT Classification	Ground Water Depth	Soil Type #	Notes
R-3	30+50	Shallowford Rd.	10/16/07	0 to 2"	Topsoil				15' South, West of Shallowford Rd bridge over I-575
		Crossroad		2" to 5'	Red fine sandy clayey SILT (ML) with rock fragments	IIB4	Dry	7	Soil similar to boring R-30
R-30	34+50	Shallowford Rd.	10/16/07	0 to 1"	Topsoil				15' South, West of Shallowford Rd bridge over I-575
		Crossroad		1" to 5'	Red fine sandy clayey SILT (ML) with rock fragments	IIB4	Dry	7	810.02 sample collected
R-29	37+50	Shallowford Rd.	10/16/07	0 to 2"	Topsoil				30' South, East of Shallowford Rd bridge over I-575
		Crossroad		2" to 5'	Red sandy clayey SILT (ML)	IIB3	Dry	6	810.02 and CBR samples collected
R-33	37+50	Shallowford Rd.	10/16/07	0 to 2"	Topsoil				25' North, East of Shallowford Rd bridge over I-575
		Crossroad		2" to 5'	Red sandy clayey SILT (ML)	IIB3	Dry	6	Soil similar to boring R-29
R-28	40+50	Shallowford Rd.	10/16/07	0 to 2"	Topsoil				30' South, East of Shallowford Rd bridge over I-575
		Crossroad		2" to 5'	Red sandy clayey SILT (ML) with rock fragments	IIB4	Dry	7	Soil similar to boring R-30
R-32	40+50	Shallowford Rd.	10/16/07	0 to 1"	Topsoil				30' North, East of Shallowford Rd bridge over I-575
		Crossroad		1" to 5'	Red sandy clayey SILT (ML)	IIB4	Dry	7	Soil similar to boring R-29

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-1 (1 of 1)** | Total Depth **21.0'** | Elev: **±** | Location: **Fill/Culvert-NB126+00, 130 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/30/07** | Completed: **10/30/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
		FILL: Medium Dense to Very Loose Brown Moist Silty Fine SAND (SM)	5-5-11	2.5		16
				3.5		
			3-2-2	5.0		4
	6.0			6.0		
		ALLUVIUM: Soft Brown Moist Sandy CLAY (CL)	1-2-2	7.5		4
				8.5		
			woh-1-2	10.0		3
	13.0					
		RESIDUUM: Very Loose Black/White/Tan Wet Clayey SAND (SC)		13.5		
			1-2-2	15.0		4
	18.5			18.5		
		PARTIALLY WEATHERED ROCK: Sampled as Very Dense White/Tan/Black Clayey SAND (SC), with rock fragments	14-50/4	20.0		100
	21.0					

Auger Refusal at 21 feet

Groundwater at Time of Drilling = 8 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

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BORING LOG

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SI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-2** **(1 of 1)** Total Depth **30.0'** Elev: **±** Location: **Cut Area - NB171+00, 140 RT**

Type of Boring: **Hollow Stem Auger** Started: **10/30/07** Completed: **10/30/07** Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) ● PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	FILL: Medium Dense Red Moist Silty SAND (SM), with rock fragments	5-8-10	2.5		18
		FILL: Medium Stiff Red Moist Sandy SILT (ML)	3-3-5	3.5 / 5.0		8
	6.0	FILL: Very Stiff Red Moist Sandy Clayey SILT (ML)	4-6-9	6.0 / 7.5		15
	8.0	FILL: Stiff to Medium Stiff Red/Black Moist Sandy SILT (ML)	3-4-6	8.5 / 10.0		10
			3-3-3	13.5 / 15.0		6
	18.0	RESIDUUM: Medium Stiff Red/Black/Tan Moist Micaceous Sandy SILT (ML)	3-3-4	18.5 / 20.0		7
			3-3-5	23.5 / 25.0		8
	28.0	Very Stiff Red/Black Moist Sandy Clayey SILT (ML), with rock fragments	9-9-8	28.5 / 30.0		17
	30.0	Boring Terminated at 30 feet Groundwater at Time of Drilling = Not Encountered				

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

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BORING LOG

SI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-3** **(1 of 1)** Total Depth **35.0'** Elev: **±** Location: **Fill Area - NB232+00, 100 RT**

Type of Boring: **Hollow Stem Auger** Started: **10/22/07** Completed: **10/22/07** Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	RESIDUUM: Very Stiff Brown/Tan/White Moist Sandy SILT (ML)	10-8-12	2.5		20
		Stiff Brown/White/Black Moist Sandy SILT (ML), with rock fragments	3-4-5	3.5 / 5.0		9
	8.0	Stiff Tan/Red Moist Clayey SILT (ML)	4-4-5	8.5 / 10.0		9
	13.0	Stiff Tan/White/Black Streaks Moist Clayey SILT (ML)	2-4-4	13.5 / 15.0		10
	18.0	Stiff Tan/White/Black Moist Sandy Clayey SILT (ML)	3-5-9	18.5 / 20.0		14
	23.0	Dense Multi-colored Moist Silty SAND (SM)	11-23-20	23.5 / 25.0		43
	28.0	Medium Dense Multi-colored Moist Silty SAND (SM), with rock fragments	8-15-12	28.5 / 30.0		27
	34.0			33.5		
	35.0	PARTIALLY WEATHERED ROCK: Sampled as Very Hard Black/White/Tan Moist Sandy SILT (ML)	5-10-50/3	35.0		100

Boring Terminated at 35 feet

Groundwater at Time of Drilling = Not Encountered

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-4** **(1 of 1)** Total Depth **14.0'** Elev: **±** Location: **Fill Area - NB279+00, 100 RT**

Type of Boring: **Hollow Stem Auger** Started: **10/22/07** Completed: **10/22/07** Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	RESIDUUM: Medium Dense Green/Brown Moist Silty SAND (SM)	10-13-13	2.5		26
		Medium Dense Green/White Moist Silty Fine SAND (SM)	6-10-13	3.5 5.0		23
	6.0	Medium Dense Green/White Moist Fine Silty Clayey SAND (SC-SM)	5-8-15	6.0 7.5		23
	8.0	Medium Dense Green/White Moist Silty Clayey SAND (SC-SM), with rock fragments	4-8-10	8.5 10.0		18
	14.0	Auger Refusal at 14 feet Groundwater at Time of Drilling = Not Encountered				

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-5 (1 of 1)** | Total Depth **23.0'** | Elev: **±** | Location: **Culvert - NB447+00, 130 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/22/07** | Completed: **10/22/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) ● PL %MC ▲ LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	RESIDUUM: Medium Stiff Gray Moist Sandy Plastic CLAY (CH)	3-1-3	2.5	●	4
	6.0	Loose Gray Moist Clayey SAND (SC)	1-1-4	3.5 / 5.0	●	5
	8.0	Medium Dense Tan/Red Moist Fine Medium Silty SAND (SM)	8-14-11	6.0 / 7.5	●	25
	13.0	Medium Dense Brown/Red/Tan Moist Medium Silty SAND (SM), with rock fragments	9-8-12	8.5 / 10.0	●	20
▽	18.0	Loose Red/Tan/White Wet Clayey SAND (SC), with rock fragments	2-3-6	13.5 / 15.0	●	9
	23.0	Medium Dense Red/Gray/Brown Wet Clayey SAND (SC)	10-13-7	18.5 / 20.0	●	20
		Auger Refusal at 23 feet				
		Groundwater at Time of Drilling = 14 feet				

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-6** **(1 of 1)** | Total Depth **35.0'** | Elev: **±** | Location: **Fill Area - NB450+00, 130 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/30/07** | Completed: **10/30/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	FILL: Stiff Red/Black Moist Sandy Clayey SILT (ML)	7-6-6	2.5		12
	6.0	FILL: Stiff Brown/Black Moist Sandy CLAY (CL)	4-4-7	3.5 / 5.0		11
	8.0	FILL: Medium Stiff Tan/Brown/Red Moist Sandy plastic CLAY (CL)	1-3-3	6.0 / 7.5		6
		RESIDUUM: Loose Tan/Red Moist Clayey SAND (SC)	2-2-5	8.5 / 10.0		7
			2-3-4	13.5 / 15.0		7
	18.0	Loose Brown/Tan Wet Clayey Fine SAND (SC)	3-5-5	18.5 / 20.0		10
	23.0	Medium Dense Multi-colored Wet Clayey Fine SAND (SC)	3-7-9	23.5 / 25.0		16
	28.0	Stiff Brown/Gray Moist Micaceous Sandy SILT (ML)	4-6-9	28.5 / 30.0		15
	33.0	Hard Brown Moist Micaceous Sandy SILT (ML), with rock fragments	11-19-25	33.5 / 35.0		44
	35.0	Boring Terminated at 35 feet				

Groundwater at Time of Drilling = 20 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-7 (1 of 1)** | Total Depth **30.0'** | Elev: **±** | Location: **Cut Area - NB456+00, 130 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/24/07** | Completed: **10/24/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.6	Topsoil Thickness = 6 inches		1.0		
		FILL: Stiff Tan/Red Moist Clayey SILT (ML)	3-4-7	2.5		11
	3.0	FILL: Soft Red Moist Plastic Clayey SILT (ML)		3.5		
			woh-1-2	5.0		3
				6.0		
			woh-2-2	7.5		4
	8.0	RESIDUUM: Medium Stiff Tan/Red/Black Moist Clayey SILT (ML)		8.5		
			woh-3-3	10.0		6
	13.0	Medium Stiff Tan/Black Moist Sandy Clayey SILT (ML)		13.5		
			3-3-4	15.0		7
	18.0	Very Stiff to Stiff Dark Brown/Brown Moist Sandy Clayey SILT (ML)		18.5		
			3-4-7	20.0		11
				23.5		
			2-7-9	25.0		16
				28.5		
	30.0		6-5-10	30.0		15

Boring Terminated at 30 feet

Groundwater at Time of Drilling = 23 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-8 (1 of 1)** | Total Depth **16.5'** | Elev: **±** | Location: **Culvert - NB478+00, 150 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/25/07** | Completed: **10/25/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
		FILL: Very Stiff Tan/Brown Moist Sandy SILT (ML)	4-7-9	2.5		16
	3.0	FILL: Medium Stiff Dark Gray Moist Clayey SILT (ML)	2-2-4	3.5 / 5.0		6
	6.0	FILL: Stiff Black Moist Sandy Clayey SILT (ML), with rock fragments	4-4-10	6.0 / 7.5		14
	8.0	FILL: Very Stiff Black Moist Clayey Sandy SILT (ML), with rock fragments	1-6-10	8.5 / 10.0		16
	14.0	PARTIALLY WEATHERED ROCK: Sampled as Very Hard Gray/Tan/Black Moist Sandy SILT (ML), with rock fragments	6-50/3	13.5 / 15.0		100
	16.5	Auger Refusal at 16.5 feet				

Groundwater at Time of Drilling = Not Encountered

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-9** **(1 of 1)** | Total Depth **29.5'** | Elev: **±** | Location: **Culvert - NB505+00, 160 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/25/07** | Completed: **10/25/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) ● PL %MC ▲ LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
		FILL: Soft Tan/Red Moist Sandy SILT (ML)	2-2-2	2.5	●	4
	3.0			3.5		
		FILL: Very Stiff Tan/Brown Moist Sandy SILT (ML)	1-2-2	5.0	●	4
	6.0			6.0		
		ALLUVIUM: Soft Gray Wet Fat CLAY (CH)	2-1-1	7.5	●	2
	8.0			8.5		
		RESIDUUM: Very Loose Gray Wet Clayey SAND (SC)	woh-woh-2	10.0	●	2
	13.0			13.5		
		Loose Gray Wet Poorly Graded SAND (SP), with rock fragments and trace of clay	1-2-3	15.0	●	5
				18.5		
			1-2-3	20.0	●	5
	24.0			23.5		
		PARTIALLY WEATHERED ROCK: Sampled as Very Dense Greenish Gray Moist Fine SAND (SM), with rock fragments	16-32-50/5	25.0		● 100
	29.5					
		Auger Refusal at 29.5 feet				
		Groundwater at Time of Drilling = 8 feet				

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-10 (1 of 1)** | Total Depth **25.0'** | Elev: **±** | Location: **Fill Area - NB542+00, 140 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/25/07** | Completed: **10/25/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) ● PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	FILL: Stiff Tan/Red Moist Sandy Clayey SILT (ML)	4-6-8	2.5	●	14
	6.0	ALLUVIUM: Very Soft Brown/Tan Moist Clayey Elastic SILT (MH)	1-1-1	3.5 5.0	●	2
	8.0	ALLUVIUM: Very loose Brown Wet Clayey SAND (SC)	woh-1-1	6.0 7.5	●	2
	13.0	ALLUVIUM: Very Loose Brown Wet Clayey SAND (SC)	woh-woh-woh	8.5 10.0	●	0
	18.5	RESIDUUM: Medium Dense Gray Moist Clayey SAND (SC), with rock fragments	4-7-6	13.5 15.0	●	13
	23.0	PARTIALLY WEATHERED ROCK: Sampled as Very Dense Tan/Brown/White Moist Medium SAND (SM), with rock fragments and trace of clay	22-50/5	18.5 20.0		● 100
	25.0	PARTIALLY WEATHERED ROCK: Sampled as Very Dense Brown/White Moist Fine SAND (SM), with rock fragments	16-50/3	23.5 25.0		● 100

Auger Refusal at 25 feet

Groundwater at Time of Drilling = 7 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-11 (1 of 1)** | Total Depth **40.0'** | Elev: **±** | Location: **Fill Area - NB581+00, 150 RT**

Type of Boring: **Hollow Stem Auger** | Started: **10/26/07** | Completed: **10/26/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) ● PL %MC ▲ LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
		FILL: Stiff Red Moist Micaceous Sandy SILT (ML)	5-6-8	2.5		14
				3.5		
			5-5-7	5.0		12
	6.0			6.0		
		FILL: Very Stiff Red/Brown/Tan Moist Micaceous Sandy SILT (ML)	7-9-8	7.5		17
	8.0			8.5		
		FILL: Stiff Brown/Red Moist Micaceous Sandy SILT (ML), with rock fragments	4-5-6	10.0		11
	13.0					
		ALLUVIUM: Loose Dark Brown Silty SAND (SM)	1-1-1	13.5 / 15.0		2
	16.0					
		ALLUVIUM: Loose Dark Gray Clayey SAND (SC), trace of roots	3-4-6	18.5 / 20.0		10
	23.0					
		RESIDUUM: Stiff Gray Sandy CLAY (CL)	2-4-5	23.5 / 25.0		9
	28.0					
		PARTIALLY WEATHERED ROCK: Sampled as Very Dense Gray/White Wet Clayey SAND (SC), with rock fragments	50/3	28.5 / 30.0		100
	33.0					
		RESIDUUM: Very Dense Gray Wet Fine SAND (SM), trace of clay	18-30-30	33.5 / 35.0		60
			20-50/5	38.5 / 40.0		100
	40.0					

Auger Refusal at 40 feet

Groundwater at Time of Drilling = 24 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-12 (1 of 1)** | Total Depth **19.0'** | Elev: **±** | Location: **Fill Area - SB128+00, 120 LT**

Type of Boring: **Hollow Stem Auger** | Started: **10/29/07** | Completed: **10/29/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	FILL: Medium Stiff Red Moist Sandy SILT (ML)	3-3-5	2.5		8
		FILL: Stiff Red/Brown Moist Sandy CLAY (CL)	3-6-6	3.5 / 5.0		12
	6.0	FILL: Medium Dense Brown Moist Fine SAND (SM), trace of silt	2-6-5	6.0 / 7.5		11
	8.0	ALLUVIUM: Very Soft Gray Sandy FAT CLAY (CH)	woh-1-1	8.5 / 10.0		2
	13.0	PARTIALLY WEATHERED ROCK: Sampled as Very Dense Gray/White Wet Clayey SAND (SC), with rock fragments	50/5	13.5 / 15.0		100
	19.0	Auger Refusal at 19 feet Groundwater at Time of Drilling = Not Encountered				

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-13 (1 of 1)** | Total Depth **40.0'** | Elev: **±** | Location: **Culvert - SB447+00, 150 LT**

Type of Boring: **Hollow Stem Auger** | Started: **10/29/07** | Completed: **10/29/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
		FILL: Stiff Red Moist Sandy Clayey SILT (ML)	5-4-5	2.5		9
				3.5		
			2-4-5	5.0		9
	6.0			6.0		
		FILL: Medium Stiff Black/Brown Moist Sandy CLAY (CL)	3-3-5	7.5		8
	8.0			8.5		
		ALLUVIUM: Stiff Green/White/Brown Moist Sandy SILT (ML)	3-5-5	10.0		10
	13.0			13.5		
		RESIDUUM: Medium Dense Black/White/Green Moist Silty Clayey Fine SAND (SM-SC)	6-6-5	15.0		11
	18.0			18.5		
		Medium Dense Tan/Brown Moist Clayey Fine SAND (SC)	3-5-8	20.0		13
	23.0			23.5		
		Medium Dense to Very Dense Black/White Wet Clayey SAND (SC), with rock fragments	5-10-17	25.0		27
				28.5		
			13-16-36	30.0		52
	33.0			33.5		
		Stiff White Wet Sandy CLAY (CL), with rock fragments	2-6-8	35.0		14
	39.0			38.5		
	40.0	PARTIALLY WEATHERED ROCK: Sampled as Very Dense Brown/Black Wet Medium Clayey SAND (SC), with rock fragments	21-30-50/5	40.0		100

Auger Refusal at 40 feet

Groundwater at Time of Drilling = 35 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-14 (1 of 1)** | Total Depth **35.0'** | Elev: **±** | Location: **Culvert - SB478+00, 140 LT**

Type of Boring: **Hollow Stem Auger** | Started: **10/29/07** | Completed: **10/29/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) ● PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.3	Topsoil Thickness = 3 inches		1.0		
	3.0	FILL: Stiff Brown/Tan Moist Sandy SILT (ML), with rock fragments	3-6-11	2.5		17
		FILL: Medium Dense Brown/White Moist Fine SAND (SP), with rock fragments	10-10-5	3.5 / 5.0		15
	6.0	FILL: Stiff Red Moist Clayey SILT (ML), with rock fragments	4-5-6	6.0 / 7.5		11
	8.0	FILL: Medium Stiff Red Moist Sandy Clayey SILT (ML), with rock fragments	4-4-4	8.5 / 10.0		8
	13.0	ALLUVIUM: Soft Dark Brown Moist Fat CLAY (CH), trace of sand	1-1-2	13.5 / 15.0		3
	18.0	RESIDUUM: Loose Gray/White Wet Poorly Graded SAND (SP), trace of clay	6-4-2	18.5 / 20.0		6
	23.0	Medium Dense Gray Wet Medium to Coarse Poorly Graded SAND (SP), with pieces of rock	5-9-18	23.5 / 25.0		27
	28.0	Medium Dense Tan Moist Clayey Fine SAND (SC)	10-15-10	28.5 / 30.0		25
	33.0	PARTIALLY WEATHERED ROCK: Sampled as Very Dense Brown Clayey SAND (SC), with rock fragments	50/5	33.5 / 35.0		100
	35.0	Auger Refusal at 35 feet				

Groundwater at Time of Drilling = 18 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

PSI No.: **476-65003 (Document No. ATL-171-3099)**

Client: **Willmer Engineering/Georgia Transportation Partners**

Project: **Northwest Corridor Project - I-575 Widening, Cobb and Cherokee Counties, Georgia**

Boring No.: **SP-15 (1 of 1)** | Total Depth **25.0'** | Elev: **±** | Location: **Culvert - SB543+00, 180 LT**

Type of Boring: **Hollow Stem Auger** | Started: **10/25/07** | Completed: **10/25/07** | Driller: **Willmer**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows / REC/RQD	Sample Depth (Feet)	N VALUE (bpf) PL %MC LL (10 20 30 40 50 60 70 80 90)	N
	0.6	Topsoil Thickness = 6 inches		1.0		
	3.0	FILL: Medium Stiff Tan Moist Sandy SILT (ML)	2-2-5	2.5		7
		ALLUVIUM: Very Loose Brown/Black Wet Clayey SAND (SC)		3.5		
			1-2-2	5.0		4
				6.0		
			woh-woh-woh	7.5		0
				8.5		
			woh-woh-woh	10.0		0
	13.0	RESIDUUM: Very Dense Gray/Brown Clayey SAND (SC), with pieces of rock		13.5		
			15-8-50/5	15.0		100
	18.0	Dense Green/Black/Gray Moist Silty SAND (SM)		18.5		
			6-10-22	20.0		32
	24.0			23.5		
	25.0	PARTIALLY WEATHERED ROCK: Sampled as Very Dense Green/Gray Sandy SILT (ML)	19-20-50/2	25.0		100

Auger Refusal at 25 feet

Groundwater at Time of Drilling = 5 feet

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

APPENDIX III

810.02 Lab Test Summary

Consolidation Test Data

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-2	B-1	B-4	B-8	B-6	B-7	B-11	B-10	B-12	B-13
STATION		80+00	80+00	85+00	90+00	90+00	90+00	95+00	95+00	98+00	100+00
OFFSET		72' LT CL	62' RT CL	10' LT CL	74' LT CL	58' RT CL	10' RT CL	70' LT CL	10' LT CL	75' LT CL	57' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 6	0 - 5	0 - 6	0 - 7
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	97.7	100.0	99.5	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	97.2	93.7	92.1	94.7	97.6	96.2	94.2	98.5	97.2	92.6
	# 40 SIEVE	84.2	75.7	79.9	74.4	78.6	81.9	75.6	80.0	78.3	77.4
	# 60 SIEVE	78.4	68.2	72.9	64.7	71.0	75.4	69.0	71.2	70.3	71.3
	# 200 SIEVE	65.2	49.9	57.1	44.8	52.1	55.0	48.9	51.7	51.7	54.5
% CLAY		41.7	32.7	39.6	19.8	30.3	30.3	24.8	29.2	27.0	33.1
For material passing No. 10 sieve	% VOL. CHANGE	20.5	23.6	19.3	27.3	26.6	22.1	25.4	29.5	26.1	23.9
	% SWELL	14.3	21.4	16.3	24.1	22.8	18.3	22.4	26.6	21.3	20.4
	% SHRINKAGE	6.2	2.2	3.0	3.2	3.8	3.8	3.0	2.9	4.8	3.5
	MAX. DRY DENSITY [pcf]	99.3	113.6	106.1	106.1	106.7	103.1	111.0	104.0	104.1	107.9
	% OPT. MOISTURE	20.8	13.9	17.5	17.0	16.2	18.6	14.5	18.3	17.8	16.6
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		2.13	3.98	3.12	4.59	3.73	3.36	4.10	3.73	3.73	3.36
RESISTIVITY[ohm-cm]											
SOIL SUPPORT VALUE								1.4			
pH											
% NATURAL MOISTURE		27.4	15.5	14.1	11.1	20.9	12.0	NA	12.4	22.7	22.9
GDOT CLASSIFICATION		IIB4	IIB4	IIB3	IIIC1	IIIC1	IIB4	IIIC1	IIIC1	IIIC1	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-16	B-17	B-18	B-21	B-24	B-23	B-26	B-27	B-29	B-31
STATION		103+00	104+00	105+00	109+00	110+00	110+00	112+00	113+00	117+00	120+00
OFFSET		53' RT CL	75' LT CL	10' LT CL	64' RT CL	75' LT CL	10' RT CL	56' RT CL	71' LT CL	62' RT CL	10' RT CL
DEPTH (ft)		0 - 6	0 - 5	0 - 5	0 - 7	0 - 6	0 - 5	0 - 5	0 - 5	0 - 5	0.-5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	95.0	100.0	100.0	NA	100.0
	# 10 SIEVE	96.8	68.7	98.4	88.0	88.7	83.2	91.2	95.4	NA	90.9
	# 40 SIEVE	77.3	46.3	76.2	72.9	71.5	68.3	74.6	77.7	NA	74.3
	# 60 SIEVE	68.9	38.4	64.3	65.3	62.8	59.2	68.0	68.0	NA	66.2
	# 200 SIEVE	49.7	22.4	41.1	47.8	46.4	37.3	50.0	52.0	NA	47.9
% CLAY		31.4	7.2	21.9	31.8	31.5	18.5	30.1	31.8	NA	28.4
For material passing No. 10 sieve	% VOL. CHANGE	24.4	6.1	18.9	18.7	14.3	14.6	22.2	22.7	NA	19.9
	% SWELL	19.7	5.7	17.9	16.3	11.0	12.4	20.0	19.0	NA	18.0
	% SHRINKAGE	4.7	0.4	1.0	2.4	3.3	2.2	2.2	3.7	NA	1.8
	MAX. DRY DENSITY [pcf]	103.3	128.0	115.2	110.1	110.8	116.3	110.6	104.7	NA	110.5
	% OPT. MOISTURE	18.5	9.5	12.80	15.9	15.7	14.0	15.4	17.7	NA	15.6
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		3.98	7.30	5.09	4.23	4.35	5.46	NA	3.73	NA	4.23
RESISTIVITY[ohm-cm]										4100	
SOIL SUPPORT VALUE								2.8			
pH										5.4	
% NATURAL MOISTURE		25.5	5.4	5.3	13.0	14.7	8.9	NA	21.9	NA	11.4
GDOT CLASSIFICATION		IIB4	IA1	IIB3	IIB3	IIB3	IIB2	IIB4	IIB4	NA	IIB3

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-35	B-36	B-38	B-39	B-40	B-44	B-45	B-46	B-47	B-48
STATION		128+00	129+00	132+00	133+00	135+00	141+00	142+00	143+00	144+00	147+00
OFFSET		75' LT CL	10' RT CL	60' RT CL	78' LT CL	10' RT CL	10' RT CL	60' RT CL	73' LT CL	10' LT CL	58' RT CL
DEPTH (ft)		0 - 5	0 - 8	0 - 5	0 - 5	0 - 25	0 - 22	0 - 5	0 - 5	0 - 15	0.-5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	93.0	97.4	91.1	96.1	99.7	97.2	98.2	95.8	99.6	89.2
	# 40 SIEVE	78.3	83.0	77.9	86.0	90.2	85.6	88.8	73.4	83.0	76.6
	# 60 SIEVE	70.7	74.6	72.4	80.3	84.0	79.0	84.6	66.8	75.0	72.1
	# 200 SIEVE	55.0	57.8	57.8	68.1	66.2	62.4	74.8	52.4	60.0	57.6
% CLAY		37.8	33.5	41.0	54.2	34.8	36.7	58.5	34.9	33.4	33.9
For material passing No. 10 sieve	% VOL. CHANGE	14.5	21.1	18.2	20.6	16.4	24.9	20.2	16.9	16.4	22.0
	% SWELL	10.0	15.2	14.7	14.4	11.6	18.1	12.9	11.3	11.7	17.8
	% SHRINKAGE	4.5	5.9	3.5	6.2	4.8	6.8	7.3	5.6	4.7	4.2
	MAX. DRY DENSITY [pcf]	107.1	99.4	106.7	99.0	93.6	91.2	93.0	98.2	102.0	105.6
	% OPT. MOISTURE	17.0	22.2	17.5	20.1	23.6	26.7	24.8	22.0	18.5	13.5
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		3.36	3.00	3.00	1.77	2.00	5.50	0.90	3.61	4.23	3.00
RESISTIVITY[ohm-cm]					4200						
SOIL SUPPORT VALUE											
pH					6.1						
% NATURAL MOISTURE		23.5	21.5	26.9	19.4	30.4	39.6	31.3	29.0	23.9	50.9
GDOT CLASSIFICATION		IIB3	IIB4	IIB3	IIB4	IIB4	IIB4	IIB4	IIB4	IIB4	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-51	B-54	B-53	B-56	B-57	B-58	B-59	B-61	B-65	B-67
STATION		150+00	153+00	153+00	157+00	158+00	161+00	162+00	163+00	171+25	173+00
OFFSET		10' LT CL	96' LT CL	15' RT CL	60' RT CL	70' LT CL	20' RT CL	55' RT CL	78' LT CL	10' LT CL	74' LT CL
DEPTH (ft)		0 - 7	0 - 5	0 - 7	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0.-5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	93.7	90.0	95.8	95.1	NA	97.0	96.5	94.7	89.1	96.5
	# 40 SIEVE	80.7	77.5	85.6	83.6	NA	86.2	84.3	82.4	77.7	85.3
	# 60 SIEVE	73.7	69.3	77.8	77.4	NA	76.0	76.2	73.7	68.7	75.3
	# 200 SIEVE	58.9	50.9	59.5	58.2	NA	55.7	55.9	54.3	46.7	58.9
% CLAY		35.1	34.8	41.7	38.0	NA	33.2	36.1	30.0	26.0	46.3
For material passing No. 10 sieve	% VOL. CHANGE	13.2	6.8	20.3	24.4	NA	33.4	20.8	27.3	20.4	10.0
	% SWELL	10.3	3.5	14.2	19.0	NA	27.6	16.7	22.9	14.1	5.0
	% SHRINKAGE	2.9	3.3	6.1	5.4	NA	5.8	4.1	4.4	6.3	5.0
	MAX. DRY DENSITY [pcf]	93.8	110.3	98.6	94.1	NA	97.4	98.1	100.8	96.7	103.2
	% OPT. MOISTURE	25.8	15.5	21.5	25.0	NA	22.3	21.4	20.5	25.1	13.3
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		3.00	3.86	2.75	3.00	NA	3.24	3.24	3.36	4.35	2.87
RESISTIVITY[ohm-cm]						15000				9400	
SOIL SUPPORT VALUE		4.5									
pH						5.0				5.6	
% NATURAL MOISTURE		20.1	20.0	28.2	28.5	NA	5.8	24.7	31.0	28.5	19.3
GDOT CLASSIFICATION		IIB4	IIB3	IIB4	IIB4	NA	IIIC2	IIB4	IIIC1	IIB4	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-69	B-70	B-71	B-72	B-77	B-76	B-79	B-81	B-83	B-85
STATION		177+00	178+00	180+00	181+00	186+00	186+00	189+00	194+00	196+00	199+00
OFFSET		55' RT CL	76' LT CL	60' RT CL	10' LT CL	104' LT CL	58' RT CL	10' LT CL	10' RT CL	72' RT CL	82' LT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 6	0 - 5	0 - 8	0 - 6	0 - 5	0 - 5	0 - 5	0.-5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	98.2	100.0	NA	98.8	100.0
	# 10 SIEVE	94.0	79.6	90.8	89.4	96.1	86.8	88.0	NA	92.4	94.3
	# 40 SIEVE	80.9	73.0	79.5	78.7	81.1	75.0	78.8	NA	74.9	80.3
	# 60 SIEVE	73.6	69.1	73.0	71.1	71.8	68.6	72.1	NA	67.9	71.2
	# 200 SIEVE	54.5	57.3	50.3	49.3	53.7	47.5	57.4	NA	50.7	49.3
% CLAY		37.5	46.0	32.7	30.2	34.4	29.3	39.5	NA	35.5	19.8
For material passing No. 10 sieve	% VOL. CHANGE	11.3	8.8	20.0	25.7	17.5	7.7	14.2	NA	12.1	22.4
	% SWELL	7.6	4.3	14.3	20.8	14.3	5.0	10.6	NA	8.6	19.4
	% SHRINKAGE	3.7	4.4	5.7	4.9	3.2	2.7	3.5	NA	3.5	3.0
	MAX. DRY DENSITY [pcf]	106.7	110.7	102.9	107.3	110.1	109.8	103.0	NA	107.4	106.6
	% OPT. MOISTURE	17.0	15.0	20.4	17.3	15.0	16.3	20.6	NA	16.7	16.8
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		3.36	NA	3.98	4.10	3.49	4.23	3.00	NA	3.86	3.98
RESISTIVITY[ohm-cm]									5500		
SOIL SUPPORT VALUE			5.5								
pH									6.5		
% NATURAL MOISTURE		23.8	NA	23.9	15.4	19.7	21.7	20.8	NA	17.2	18.1
GDOT CLASSIFICATION		IIB3	IIB3	IIB4	IIIC1	IIB3	IIB3	IIB4	NA	IIB3	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-84	B-86	B-88	B-89	B-90	B-91	B-93	B-98	B-97	B-99
STATION		199+00	201+00	204+00	206+00	209+00	209+00	214+00	219+00	219+00	220+00
OFFSET		10' LT CL	58' RT CL	84' LT CL	82' RT CL	10' LT CL	82' LT CL	98' RT CL	68' LT CL	10' LT CL	64' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 6	0 - 5	0 - 5	0 - 6
% Passing	1-1/2" SIEVE	100.0	100.0	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	94.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	99.6	96.1	87.0	89.8	97.5	95.4	93.5	93.6	96.5	97.2
	# 40 SIEVE	87.8	78.1	73.7	68.4	85.6	85.6	80.4	83.5	83.4	86.9
	# 60 SIEVE	80.1	69.6	63.6	61.5	74.2	70.6	75.4	77.9	71.6	79.6
	# 200 SIEVE	60.6	48.6	39.0	44.2	42.2	36.1	60.7	63.6	44.4	55.0
% CLAY		26.3	29.2	19.1	25.9	21.0	9.8	37.8	45.9	20.4	33.0
For material passing No. 10 sieve	% VOL. CHANGE	30.1	22.6	27.1	21.7	31.7	21.9	13.8	20.8	22.9	24.6
	% SWELL	27.5	19.7	25.9	18.4	29.3	21.1	9.3	15.1	20.7	22.7
	% SHRINKAGE	2.6	2.9	1.2	3.3	2.4	0.8	4.5	5.7	2.2	1.9
	MAX. DRY DENSITY [pcf]	102.4	110.9	109.3	113.0	109.7	114.5	111.0	101.5	114.4	110.0
	% OPT. MOISTURE	18.4	14.8	14.8	15.5	15.0	13.4	15.4	19.8	13.3	14.8
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		2.63	4.10	5.33	4.72	5.00	5.71	2.63	2.26	4.60	3.36
RESISTIVITY[ohm-cm]					16000				8300		
SOIL SUPPORT VALUE				1.0							
pH					6.0				6.2		
% NATURAL MOISTURE		15.3	19.5	15.3	19.8	15.6	4.8	25.8	25.9	9.5	15.9
GDOT CLASSIFICATION		IIIC2	IIB4	IIIC1	IIB4	IIIC2	IIB4	IIB4	IIB4	IIB4	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-100	B-103	B-105	B-106	B-108	B-111	B-112	B-114	B-113	B-117
STATION		223+00	226+00	229+00	229+00	235+00	239+00	239+00	244+00	244+00	249+00
OFFSET		60' RT CL	66' RT CL	10' LT CL	63' LT CL	62' RT CL	10' LT CL	66' LT CL	10' RT CL	60' RT CL	68' LT CL
DEPTH (ft)		0 - 6	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0.-5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	100.0
	# 10 SIEVE	90.9	97.2	94.9	93.3	96.8	85.2	96.1	96.8	96.6	88.0
	# 40 SIEVE	77.9	86.8	82.1	75.9	84.5	74.4	85.8	84.4	85.1	70.2
	# 60 SIEVE	70.9	74.5	73.8	66.2	78.5	68.0	78.8	78.3	78.0	62.7
	# 200 SIEVE	47.5	52.8	52.5	43.5	60.5	52.8	61.2	61.9	56.2	45.4
% CLAY		24.8	30.3	29.1	20.3	44.2	32.7	40.2	32.5	31.6	24.2
For material passing No. 10 sieve	% VOL. CHANGE	27.4	23.7	25.3	20.7	8.8	14.7	27.6	21.1	21.5	18.7
	% SWELL	25.7	21.2	21.9	18.1	4.2	12.4	21.8	17.7	17.0	15.0
	% SHRINKAGE	1.7	3.5	3.4	2.6	4.6	2.3	5.8	3.4	4.5	3.7
	MAX. DRY DENSITY [pcf]	115.6	108.3	111.4	112.5	103.9	109.9	104.0	101.0	106.8	110.7
	% OPT. MOISTURE	13.3	15.8	14.4	14.5	18.1	16.7	18.1	20.0	16.4	15.7
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		4.23	3.61	3.61	4.72	2.63	3.61	2.63	6.07	3.24	4.47
RESISTIVITY[ohm-cm]							4600				
SOIL SUPPORT VALUE		1.2									
pH							7.8				
% NATURAL MOISTURE		NA	13.4	17.0	15.0	33.2	12.9	21.2	20.7	22.1	11.9
GDOT CLASSIFICATION		IIIC1	IIB4	IIIC1	IIB4	IIB4	IIB3	IIIC1	IIB4	IIB4	IIB3

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-115	B-123	B-122	B-125	B-124	B-128	B-130	B-131	B-135	B-136
STATION		249+00	259+00	259+00	264+00	264+00	269+00	272+00	274+00	280+00	281+00
OFFSET		58' RT CL	62' LT CL	10' LT CL	10' RT CL	66' RT CL	15' LT CL	67' LT CL	62' RT CL	62' RT CL	69' LT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 7	0 - 5	0 - 5	0 - 6
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	99.0	93.2	100.0	99.7	100.0	100.0	100.0	100.0
	# 10 SIEVE	93.2	94.0	87.0	89.8	84.2	95.6	96.1	87.1	90.5	88.7
	# 40 SIEVE	85.4	76.2	75.8	74.6	70.4	83.0	85.7	72.8	77.4	77.8
	# 60 SIEVE	80.3	67.7	69.6	64.6	63.7	75.7	74.0	66.4	70.3	72.0
	# 200 SIEVE	62.1	50.0	54.6	39.7	49.2	59.2	63.6	53.5	58.1	59.4
% CLAY		34.9	25.4	36.3	24.8	33.4	39.1	41.6	36.8	44.4	45.0
For material passing No. 10 sieve	% VOL. CHANGE	21.6	17.3	17.9	16.4	11.2	19.3	24.5	15.0	14.1	18.3
	% SWELL	16.4	13.1	14.4	11.9	7.4	15.5	19.2	12.2	7.8	11.4
	% SHRINKAGE	5.2	4.2	3.5	4.5	3.8	3.8	5.3	2.8	6.3	6.9
	MAX. DRY DENSITY [pcf]	109.2	106.7	108.3	105.6	115.7	102.1	106.2	113.3	103.9	99.5
	% OPT. MOISTURE	15.6	16.9	17.0	18.2	14.0	19.4	16.7	14.7	19.3	22.1
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		2.50	3.98	5.71	NA	4.10	5.33	2.26	3.49	3.00	2.75
RESISTIVITY[ohm-cm]								3200	6100		
SOIL SUPPORT VALUE			3.0		2.4						
pH								6.2	5.9		
% NATURAL MOISTURE		21.4	27.1	16.0	NA	14.8	19.9	24.3	20.8	19.6	25.7
GDOT CLASSIFICATION		IIB4	IIB3	IIB3	IIB3	IIB3	IIB4	IIB4	IIB3	IIB4	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-138	B-139	B-140	B-141	B-142	B-144	B-146	B-150	B-151	B-152
STATION		284+00	286+00	425+11.04	425+00	427+00	430+00	435+00	440+00	442+00	445+00
OFFSET		10' RT CL	72' LT CL	58' RT CL	10' LT CL	69' LT CL	10' RT CL	62' RT CL	15' RT CL	69' LT CL	62' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	97.2	93.0	87.0	88.3	94.0	99.0	94.7	97.5	93.6	90.1
	# 40 SIEVE	81.4	77.7	69.1	72.2	80.6	93.4	86.8	79.8	71.9	65.3
	# 60 SIEVE	73.2	67.4	60.2	64.3	68.9	89.8	77.5	70.1	61.9	57.0
	# 200 SIEVE	57.1	52.4	44.4	48.9	47.9	79.0	61.8	54.8	44.6	43.5
% CLAY		38.6	39.3	28.7	30.4	29.7	57.9	45.6	35.7	24.1	28.1
For material passing No. 10 sieve	% VOL. CHANGE	22.7	14.4	11.0	12.8	7.8	19.7	12.0	18.6	15.6	17.6
	% SWELL	15.8	8.5	7.8	10.1	4.2	16.1	7.1	15.1	12.7	14.0
	% SHRINKAGE	6.9	5.9	3.2	2.7	3.0	3.6	4.9	3.5	2.9	3.6
	MAX. DRY DENSITY [pcf]	103.9	103.2	111.4	107.0	113.5	104.1	100.5	104.7	111.3	112.2
	% OPT. MOISTURE	17.9	18.8	15.5	17.8	14.0	17.6	20.5	17.5	14.8	14.8
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		5.33	3.36	4.59	6.32	4.23	3.00	2.50	5.71	4.59	4.72
RESISTIVITY[ohm-cm]					9400						
SOIL SUPPORT VALUE			4.8								
pH					6.1						
% NATURAL MOISTURE		18.2	22.5	20.7	18.9	12.7	26.9	24.0	16.3	20.6	18.9
GDOT CLASSIFICATION		IIB4	IIB4	IIB2	IIB3	IIB3	IIIC2	IIB4	IIB4	IIB3	IIB3

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-156	B-188								
STATION		450+00	505+00								
OFFSET		15' RT CL	10' LT CL								
DEPTH (ft)		0 - 5	0 - 5								
% Passing	1-1/2" SIEVE	100.0	100.0								
	3/4" SIEVE	99.8	100.0								
	# 10 SIEVE	89.7	95.8								
	# 40 SIEVE	73.0	79.6								
	# 60 SIEVE	64.2	69.6								
	# 200 SIEVE	50.5	53.5								
% CLAY		34.6	34.1								
For material passing No. 10 sieve	% VOL. CHANGE	23.7	16.8								
	% SWELL	18.9	13.7								
	% SHRINKAGE	4.8	3.1								
	MAX. DRY DENSITY [pcf]	109.4	104.3								
	% OPT. MOISTURE	16.3	17.0								
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		5.83	5.95								
RESISTIVITY[ohm-cm]											
SOIL SUPPORT VALUE											
pH											
% NATURAL MOISTURE		17.3	18.2								
GDOT CLASSIFICATION		IIB4	IIB4								

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-154	B-158	B-160	B-162	B-164	B-166	B-168	B-170	B-172	B-174
STATION		446+70	455+00	457+00	460+00	465+00	467+00	470+00	475+00	477+10	480+00
OFFSET		72' LT CL	58' RT CL	74' LT CL	15' RT CL	62' RT CL	74' LT CL	15' RT CL	62' RT CL	72' LT CL	15' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	96.1	97.5	94.1	98.9	97.6	82.1	98.9	88.4	86.5	98.1
	# 40 SIEVE	75.8	88.6	78.8	94.1	84.1	63.4	88.4	71.7	63.3	86.7
	# 60 SIEVE	68.6	81.7	65.5	91.1	75.8	55.4	79.4	62.7	51.0	78.4
	# 200 SIEVE	55.8	62.6	32.2	73.4	55.7	39.3	58.5	46.2	26.9	58.7
% CLAY		20.4	24.1	6.6	19.8	23.4	12.6	28.7	22.8	6.4	21.5
For material passing No. 10 sieve	% VOL. CHANGE	30.6	44.0	32.2	20.0	17.2	23.0	25.4	14.6	11.5	27.4
	% SWELL	28.0	39.8	29.9	18.3	13.8	20.8	20.9	9.9	9.2	25.1
	% SHRINKAGE	2.6	4.2	2.3	1.7	3.4	2.2	4.5	4.7	2.3	2.3
	MAX. DRY DENSITY [pcf]	107.5	93.0	113.5	120.7	113.2	110.7	107.6	108.1	112.5	109.9
	% OPT. MOISTURE	15.9	24.1	13.5	10.7	13.6	14.5	15.8	15.7	13.8	14.9
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		3.24	2.38	6.19	1.03	3.24	5.21	2.87	4.47	6.81	2.87
RESISTIVITY[ohm-cm]			9946				9946				
SOIL SUPPORT VALUE						4.5					
pH			5.6				4.7				
% NATURAL MOISTURE		22.3	26.0	10.8	6.5	10.9	14.8	11.6	14.6	5.5	9.0
GDOT CLASSIFICATION		IIIC2	IIIC3	IIIC2	IIB4	IIB3	IIB4	IIIC1	IIB3	IA2	IIIC1

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-175	B-176	B-178	B-180	B-182	B-183	B-187	B-191	B-196	B-197
STATION		482+00	485+00	485+00	490+00	495+00	495+00	500+00	510+00	515+00	521+00
OFFSET		72' LT CL	58' RT CL	70' LT CL	10' RT CL	60' RT CL	5' LT CL	90' LT CL	58' RT CL	64' LT CL	62' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 6	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	91.8	94.9	95.8	99.3	94.9	98.7	92.6	96.3	97.9	97.7
	# 40 SIEVE	73.3	77.0	80.9	88.3	77.6	83.1	75.7	73.6	84.2	80.7
	# 60 SIEVE	63.2	66.9	72.4	78.2	68.9	73.7	67.7	63.8	74.1	72.8
	# 200 SIEVE	40.8	46.8	56.1	58.9	50.6	54.8	49.6	48.0	53.3	57.7
% CLAY		14.6	16.3	32.5	33.0	23.3	26.8	22.5	16.8	30.4	17.7
For material passing No. 10 sieve	% VOL. CHANGE	25.8	19.9	21.2	20.6	21.2	26.6	13.7	30.6	11.4	22.5
	% SWELL	24.2	16.9	18.1	16.0	18.0	22.8	9.9	27.3	7.4	17.7
	% SHRINKAGE	1.6	3.0	3.1	4.6	3.2	3.8	3.8	3.3	4.0	4.8
	MAX. DRY DENSITY [pcf]	112.0	116.2	105.3	108.1	109.2	109.0	113.0	109.2	108.8	102.6
	% OPT. MOISTURE	14.0	12.3	16.8	15.7	15.1	15.2	13.7	15.1	15.3	18.3
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		5.09	4.35	3.24	2.87	3.86	3.36	3.98	4.23	3.49	3.00
RESISTIVITY[ohm-cm]					13924						6962
SOIL SUPPORT VALUE		3.1	2.9				2.9				
pH					5.5						5.7
% NATURAL MOISTURE		12.9	16.2	18.6	13.0	16.9	13.8	12.3	20.0	13.3	24.0
GDOT CLASSIFICATION		IIIC1	IIB3	IIB4	IIB4	IIB4	IIIC1	IIB3	IIIC2	IIB3	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-198	B-200	B-202	B-203	B-205	B-207	B-208	B-210	B-212	B-214
STATION		521+00	525+00	525+00	529+00	530+00	533+00	535+00	538+00	543+00	545+00
OFFSET		10' RT CL	58' RT CL	72' LT CL	72' LT CL	5' RT CL	10' LT CL	64' LT CL	15' RT CL	72' RT CL	72' LT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 6	0 - 6	0 - 6	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	98.8	98.4	96.8	98.1	99.9	98.9	97.9	97.5	98.8	96.3
	# 40 SIEVE	76.9	87.9	86.3	89.6	90.6	97.1	81.9	85.4	86.8	76.4
	# 60 SIEVE	67.3	81.7	80.0	83.7	85.0	95.8	72.9	78.6	78.8	66.7
	# 200 SIEVE	47.4	66.9	65.8	70.1	71.7	88.8	54.9	63.3	61.9	51.1
% CLAY		13.3	24.4	32.1	45.4	35.7	50.1	19.5	29.9	25.0	22.7
For material passing No. 10 sieve	% VOL. CHANGE	34.4	13.6	NOT	33.0	20.8	21.4	38.1	24.3	27.2	23.7
	% SWELL	32.5	9.6		24.9	15.5	12.9	35.3	20.4	23.7	17.9
	% SHRINKAGE	1.9	4.0	ENOUGH	8.1	5.3	8.5	2.8	3.9	3.5	5.8
	MAX. DRY DENSITY [pcf]	108.0	97.5	SAMPLE	94.2	97.5	87.0	105.3	102.5	106.0	107.7
	% OPT. MOISTURE	15.7	21.2		23.3	21.2	28.7	16.8	18.3	16.6	15.8
LIQUID LIMIT				FOR							
PLASTIC LIMIT				TEST							
EROSION INDEX		4.23	1.89	2.01	1.52	1.27	0.25	3.36	2.26	2.50	3.86
RESISTIVITY[ohm-cm]											
SOIL SUPPORT VALUE		2.5									
pH											
% NATURAL MOISTURE		21.6	29.3	16.9	23.5	18.5	31.0	20.6	18.9	19.1	16.8
GDOT CLASSIFICATION		IIIC2	IIB4	NA	IIIC2	IIB4	IIIC2	IIIC3	IIB4	IIIC1	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-216	B-218	B-219	B-221	B-223	B-227	B-225	B-228	B-230	B-231
STATION		548+00	552+00	553+00	557+00	558+00	563+00	563+00	566+00	568+00	570+70
OFFSET		15' RT CL	72' LT CL	66' RT CL	82' LT CL	10' RT CL	92' LT CL	62' RT CL	100' LT CL	10' RT CL	74' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 10	0 - 5	0 - 10	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	96.7	96.8	98.4	97.8	99.7	98.6	100.0	98.6	97.1	98.6
	# 40 SIEVE	86.6	78.4	77.6	82.9	81.6	86.7	83.3	83.9	83.7	82.7
	# 60 SIEVE	79.1	68.4	64.7	71.8	72.3	77.1	72.4	75.0	74.4	72.5
	# 200 SIEVE	63.0	49.0	39.5	51.1	53.5	56.7	49.3	57.7	54.8	48.0
% CLAY		38.9	15.5	20.6	17.7	16.5	12.1	24.4	33.1	30.8	19.4
For material passing No. 10 sieve	% VOL. CHANGE	8.7	31.9	12.6	35.9	33.9	41.7	43.3	36.5	16.4	28.2
	% SWELL	4.7	27.8	10.6	33.3	29.7	37.7	37.5	31.5	11.0	24.6
	% SHRINKAGE	4.0	4.1	2.0	2.6	4.2	4.0	5.8	5.0	5.4	3.6
	MAX. DRY DENSITY [pcf]	105.8	110.8	119.7	101.2	102.0	100.7	98.6	101.0	106.2	109.7
	% OPT. MOISTURE	16.1	14.4	10.9	18.9	18.6	19.3	20.5	19.0	16.5	15.0
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		2.38	4.10	5.21	3.86	3.49	3.12	3.98	3.00	3.36	4.23
RESISTIVITY[ohm-cm]				6365							
SOIL SUPPORT VALUE					2.1						
pH				6.81							
% NATURAL MOISTURE		18.1	16.7	9.6	34.7	27.6	28.4	22.4	24.8	13.6	13.6
GDOT CLASSIFICATION		IIB4	IIIC2	IIB2	IIIC3	IIIC2	IIIC3	IIIC3	IIIC3	IIB3	IIIC1

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-236	B-238	B-240	B-244	B-245	B-247	B-246	B-249	B-252	B-254
STATION		576+00	581+00	586+00	591+00	591+00	596+00	596+00	601+00	606+00	606+00
OFFSET		74' LT CL	10' LT CL	62' RT CL	10' LT CL	70' LT CL	10' RT CL	58' RT CL	80' RT CL	66' RT CL	70' LT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	95.6	97.3	99.5	99.9	95.7	94.6	98.4	99.2	93.5	91.0
	# 40 SIEVE	80.7	83.2	80.1	85.0	77.4	69.6	80.3	82.9	67.1	59.9
	# 60 SIEVE	72.9	74.8	68.0	75.4	69.0	60.8	70.8	72.2	57.2	47.7
	# 200 SIEVE	55.1	54.6	43.6	59.9	53.4	42.6	48.6	49.1	36.9	28.7
% CLAY		20.3	25.7	19.0	33.4	27.5	13.6	12.5	25.4	9.8	8.1
For material passing No. 10 sieve	% VOL. CHANGE	31.4	19.6	17.0	21.4	23.1	22.9	22.1	17.1	30.1	17.9
	% SWELL	28.2	16.7	14.5	16.7	19.5	20.9	21.7	14.0	27.6	16.2
	% SHRINKAGE	3.2	2.9	2.5	4.7	3.6	2.0	0.4	3.1	2.5	1.7
	MAX. DRY DENSITY [pcf]	105.3	107.4	115.3	98.3	100.3	111.0	113.5	114.4	116.0	111.5
	% OPT. MOISTURE	16.8	16.0	12.8	20.7	19.5	14.4	13.5	13.1	12.4	14.3
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		3.36	3.36	4.72	2.75	3.49	4.84	4.10	4.10	5.58	6.57
RESISTIVITY[ohm-cm]			24865								
SOIL SUPPORT VALUE					4.0			3.4			
pH			5.41								
% NATURAL MOISTURE		20.2	13.4	9.5	19.1	22.3	10.8	15.5	14.7	14.7	10.6
GDOT CLASSIFICATION		IIIC2	IIB3	IIB3	IIB4	IIB4	IIB4	IIB4	IIB3	IIIC2	IIB3

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-256	B-258	B-259	B-263	B-265	B-267	B-268	B-272	B-275	B-277
STATION		611+00	615+00	616+00	621+00	626+00	631+00	631+00	636+00	641+00	644+00
OFFSET		5' LT CL	72' LT CL	74' RT CL	70' LT CL	5' RT CL	76' RT CL	10' LT CL	70' LT CL	10' LT CL	70' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	97.7	96.1	96.6	96.8	98.0	92.9	99.3	96.3	96.4	92.0
	# 40 SIEVE	71.7	78.0	76.1	78.3	77.9	69.1	80.1	81.5	78.3	76.0
	# 60 SIEVE	58.5	65.4	64.5	66.4	67.8	57.3	66.2	69.7	67.9	65.9
	# 200 SIEVE	36.2	42.4	40.4	41.3	45.1	32.8	37.2	46.6	45.1	47.6
% CLAY		8.9	17.2	13.1	14.5	20.2	7.8	9.6	18.3	16.0	19.6
For material passing No. 10 sieve	% VOL. CHANGE	19.5	29.5	26.4	26.4	24.8	30.4	31.8	23.7	22.0	25.5
	% SWELL	18.6	27.1	24.9	24.9	23.0	28.5	30.1	20.8	20.5	22.0
	% SHRINKAGE	0.9	2.4	1.5	1.5	1.8	1.9	1.7	2.9	1.5	3.5
	MAX. DRY DENSITY [pcf]	115.3	110.0	113.5	113.0	111.6	113.8	111.2	109.6	112.5	112.0
	% OPT. MOISTURE	12.8	14.8	13.5	13.7	14.2	13.3	14.4	15.0	13.8	14.0
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		5.58	4.84	5.09	4.96	4.59	6.07	5.46	4.35	4.59	4.23
RESISTIVITY[ohm-cm]			11935	19892				16908			
SOIL SUPPORT VALUE										3.1	
pH			6.81	6.06				6.34			
% NATURAL MOISTURE		8.0	11.4	9.4	12.9	8.9	10.3	9.2	13.5	10.2	12.0
GDOT CLASSIFICATION		IIB3	IIIC1	IIIC1	IIIC1	IIB4	IIIC2	IIIC2	IIB4	IIB4	IIIC1

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-279	B-281	B-282	B-284	B-288	B-289	B-291	B-292	B-293	B-295
STATION		646+50	651+00	651+00	654+00	659+00	661+00	662+00	666+00	667+00	671+00
OFFSET		70' LT CL	62' RT CL	12' LT CL	82' LT CL	66' RT CL	10' LT CL	78' LT CL	10' RT CL	64' RT CL	10' LT CL
DEPTH (ft)		0 - 5	0 - 6	0 - 5	0 - 6	0 - 7	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	99.3	91.3	94.9	96.8	92.4	96.4	97.2	98.7	92.5	96.6
	# 40 SIEVE	78.2	73.4	79.1	81.4	72.8	79.7	76.1	81.1	75.7	85.2
	# 60 SIEVE	66.6	62.5	66.6	71.1	63.0	67.8	64.0	71.4	65.7	78.1
	# 200 SIEVE	43.9	40.2	42.2	45.3	41.9	42.4	37.0	52.2	45.2	54.7
% CLAY		20.2	11.6	13.3	14.8	12.0	15.7	11.8	26.7	12.0	19.8
For material passing No. 10 sieve	% VOL. CHANGE	26.0	28.6	22.5	17.1	32.2	25.0	26.5	28.5	16.8	28.4
	% SWELL	22.9	25.7	20.1	14.4	29.3	24.2	24.4	25.3	15.1	26.5
	% SHRINKAGE	3.1	2.9	2.4	2.7	2.9	0.8	2.1	3.2	1.7	1.9
	MAX. DRY DENSITY [pcf]	112.7	117.0	114.7	111.9	111.1	112.3	114.2	101.8	116.5	107.9
	% OPT. MOISTURE	13.7	12.1	13.0	14.1	14.4	13.8	13.2	18.6	12.2	15.8
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		4.72	5.09	4.84	4.47	4.96	4.84	5.58	3.61	4.47	3.36
RESISTIVITY[ohm-cm]											
SOIL SUPPORT VALUE									3.1		
pH											
% NATURAL MOISTURE		12.6	10.9	6.8	12.4	11.7	8.5	13.1	14.1	5.7	13.5
GDOT CLASSIFICATION		IIIC1	IIIC1	IIB4	IIB3	IIIC2	IIB4	IIIC1	IIIC1	IIB3	IIIC1

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-296	B-297	B-299	B-302	B-303	B-304	B-308	B-309	B-310	B-313
STATION		672+00	672+00	677+00	681+00	682+00	685+00	691+00	692+00	695+00	700+00
OFFSET		68' RT CL	72' LT CL	62' RT CL	10' LT CL	82' LT CL	64' RT CL	5' LT CL	68' LT CL	58' RT CL	64' RT CL
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	96.0	98.0	91.9	97.5	95.8	99.8	96.0	98.5	96.3	92.6
	# 40 SIEVE	85.0	86.5	75.3	84.0	72.9	80.6	78.4	83.7	82.6	76.7
	# 60 SIEVE	78.1	77.8	65.7	75.8	54.9	68.4	70.3	73.3	72.9	65.6
	# 200 SIEVE	59.5	50.5	41.6	54.6	27.5	46.6	51.4	51.9	45.6	41.3
% CLAY		21.0	14.5	12.3	22.4	7.1	17.6	19.1	23.9	14.5	14.2
For material passing No. 10 sieve	% VOL. CHANGE	32.7	33.8	23.3	14.9	11.5	21.7	36.4	24.7	23.1	28.5
	% SWELL	30.6	30.7	21.1	12.8	9.5	19.4	34.6	21.9	21.6	27.5
	% SHRINKAGE	2.1	3.1	2.2	2.1	2.0	2.3	1.8	2.8	1.5	1.0
	MAX. DRY DENSITY [pcf]	107.6	106.2	113.3	105.8	115.0	112.2	108.0	104.0	110.0	112.3
	% OPT. MOISTURE	15.8	16.5	13.5	16.1	12.9	13.9	15.7	17.5	14.8	13.8
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		2.75	3.86	4.96	3.36	6.69	4.35	3.73	3.73	4.47	4.96
RESISTIVITY[ohm-cm]		27849									
SOIL SUPPORT VALUE											1.9
pH		5.77									
% NATURAL MOISTURE		13.3	17.5	8.3	11.4	7.2	12.9	11.9	19.2	13.7	9.7
GDOT CLASSIFICATION		IIIC2	IIIC2	IIB4	IIB3	IA2	IIB4	IIIC3	IIB4	IIB4	IIIC1

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-314	B-315	B-317	B-349	B-321	B-322	B-327	B-328	B-329	B-333
STATION		700+00	701+30	704+00	708+00	710+00	715+00	720+00	725+00	725+00	730+00
OFFSET		68' LT CL	10' LT CL	64' RT CL	70' LT CL	10' LT CL	72' RT CL	70' LT CL	69' RT CL	10' RT CL	66' LT CL
DEPTH (ft)		0 - 6	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	94.6	99.3	99.6	93.1	97.4	98.4	91.6	96.5	97.6	94.1
	# 40 SIEVE	76.6	82.4	79.2	75.6	78.9	89.7	70.0	84.1	80.2	74.5
	# 60 SIEVE	67.1	71.2	67.6	64.9	63.3	82.3	59.2	74.1	69.5	64.1
	# 200 SIEVE	43.9	40.9	44.4	43.6	36.8	64.0	36.6	51.6	46.1	41.3
% CLAY		18.5	14.4	19.5	20.3	10.3	41.2	14.0	23.1	21.0	15.1
For material passing No. 10 sieve	% VOL. CHANGE	26.1	17.2	20.7	22.5	23.2	28.4	23.2	19.3	20.8	32.4
	% SWELL	22.3	14.0	17.1	20.3	22.2	23.5	21.1	16.1	18.4	29.9
	% SHRINKAGE	3.8	3.2	3.6	2.2	1.0	4.9	2.1	3.2	2.4	2.5
	MAX. DRY DENSITY [pcf]	111.6	116.7	117.3	109.6	112.3	96.9	113.0	107.9	109.9	113.6
	% OPT. MOISTURE	14.2	12.2	11.9	15.0	13.8	21.5	13.7	15.8	14.9	13.4
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		4.72	5.09	4.59	4.72	5.58	2.26	5.58	3.73	4.47	4.96
RESISTIVITY[ohm-cm]									44757	11935	
SOIL SUPPORT VALUE											
pH									5.52	5.16	
% NATURAL MOISTURE		10.5	7.7	9.2	11.1	8.3	23.6	11.2	14.9	11.6	10.0
GDOT CLASSIFICATION		IIIC1	IIB3	IIB4	IIB4	IIB4	IIIC1	IIB4	IIB3	IIB4	IIIC2

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00(256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties, Georgia**

BORING NO.		B-334	B-335	B-339	B-340	B-341	B-344	B-345	B-346	B-347	
STATION		735+00	735+00	741+00	745+00	745+00	750+00	750+00	755+00	755+00	
OFFSET		68' RT CL	10' RT CL	84' LT CL	70' RT CL	5' RT CL	15' RT CL	68' LT CL	66' RT CL	10' LT CL	
DEPTH (ft)		0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	# 10 SIEVE	94.1	95.2	98.4	93.0	90.8	95.9	93.3	92.3	91.2	
	# 40 SIEVE	76.8	78.7	67.8	76.1	63.1	75.6	74.1	74.1	70.0	
	# 60 SIEVE	65.8	67.6	58.3	65.2	51.3	63.0	63.7	64.3	60.6	
	# 200 SIEVE	41.8	45.2	40.2	43.0	28.5	39.1	43.4	43.6	38.6	
% CLAY		16.7	15.5	11.2	20.0	7.5	13.8	19.3	20.0	8.8	
For material passing No. 10 sieve	% VOL. CHANGE	20.7	29.4	16.1	17.3	16.8	21.0	21.8	27.0	23.7	
	% SWELL	19.3	26.3	13.5	15.4	14.6	20.2	19.2	23.5	21.8	
	% SHRINKAGE	1.4	3.1	2.6	1.9	2.2	0.8	2.6	3.5	1.9	
	MAX. DRY DENSITY [pcf]	111.0	109.0	117.7	112.7	113.0	109.4	109.0	109.9	99.9	
	% OPT. MOISTURE	14.4	15.2	11.7	13.7	13.7	15.0	15.2	14.9	19.8	
LIQUID LIMIT											
PLASTIC LIMIT											
EROSION INDEX		4.96	4.47	5.09	4.84	6.57	5.33	4.72	4.72	5.33	
RESISTIVITY[ohm-cm]											
SOIL SUPPORT VALUE							4.0		3.9		
pH											
% NATURAL MOISTURE		15.8	10.4	4.8	10.6	5.8	7.2	12.2	13.3	9.3	
GDOT CLASSIFICATION		IIB4	IIIC1	IIB3	IIB3	IIB3	IIB4	IIB4	IIIC1	IIB4	

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00 (256)**
PI #: **0008256**
LOCATION: **Cobb & Cherokee Counties**

BORING NO.		R-2	R-4	R-1	R-3	R-12	R-13	R-15	R-18	R-11	R-14	R-16
LOCATION		Barrett Pkwy Ramp B	Barrett Pkwy Ramp B	Barrett Pkwy Ramp D	Barrett Pkwy Ramp D	Chastain Rd Ramp I	Chastain Ramp I	Chastain Rd Ramp J	Chastain Rd Ramp J	Chastain Rd Ramp K	Chastain Rd Ramp K	Chastain Rd Ramp L
STATION		14+50	20+00	31+00	40+00	10+00	14+00	12+00	20+00	30+00	37+00	32+00
DEPTH (ft)		0-7'	0-8'	0-6'	0-7'	0-6'	0-5'	0-5'	0-6'	0-12'	0-7'	0-5'
% Passing	1-1/2" SIEVE	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100	98.4	100.0	100.0	100.0	100.0	100.0	97.8	100.0	99.4	100.0
	# 10 SIEVE	93	90.7	88.7	94.0	94.6	97.9	91.9	70.6	96.2	94.6	94.0
	# 40 SIEVE	74.6	71.1	73.9	68.6	87.5	91.5	83.0	59.0	82.4	88.6	80.1
	# 60 SIEVE	67.7	63.6	66.4	61.0	82.7	86.9	77.7	53.3	78.6	84.2	73.8
	# 200 SIEVE	46.6	44.3	48.2	43.1	67.9	73.5	62.4	39.7	57.9	70.0	56.7
% CLAY		23.9	18.5	30.4	23.8	48.2	46.5	45.4	25.2	31.0	48.5	40.1
For material passing No. 10 sieve	% VOL. CHANGE	26.7	26.2	23.0	19.9	20.7	15.4	8.0	17.3	24.2	24.6	15.2
	% SWELL	24.3	23.7	17.9	17.6	16.0	8.3	3.7	12.6	20.7	17.8	10.5
	% SHRINKAGE	2.4	2.5	5.1	2.3	4.7	7.1	4.3	4.7	3.5	6.8	4.7
	MAX. DRY DENSITY [pcf]	109.9	109.6	105.8	112.1	96.9	93.7	99.0	103.7	98.3	94.5	107.7
	% OPT. MOISTURE	15.3	15.0	18.3	14.3	23.0	24.5	22.3	17.9	21.6	22.9	16.4
LIQUID LIMIT			56.0						56.0		74.0	
PLASTIC LIMIT			43.0						36.0		51.0	
EROSION INDEX		4.35	4.59	4.1	4.84	1.77	1.03	2.38	5.21	3.00	1.52	3.12
RESISTIVITY[ohm-cm]												
SOIL SUPPORT VALUE			1.4						3.7		4.3	
pH												
% NATURAL MOISTURE		20.1	16.6	28.7	11.8	29.1	35.3	23.9	24.3	29.9	25.8	13.9
GDOT CLASSIFICATION		IIIC1	IIIC1	IIB4	IIB3	IIB4	IIB4	IIB4	IIB4	IIB4	IIB4	IIB3

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00 (256)**
PI #: **0008256**

BORING NO.		R-17	R-19	R-22	R-23	R-26	R-20	R-21	R-24	R-25	R-34	R-36
LOCATION		Chastain Rd Ramp L	Bells Ferry Rd Ramp M	Bells Ferry Rd Ramp M	Bells Ferry Rd Ramp N	Bells Ferry Rd Ramp N	Bells Ferry Rd Ramp O	Bells Ferry Rd Ramp O	Bells Ferry Rd Ramp P	Bells Ferry Rd Ramp P	Hwy 92 Ramp U	Hwy 92 Ramp U
STATION		40+00	11+00	22+00	12+00	20+00	30+00	37+00	32+00	40+00	11+00	19+00
DEPTH (ft)		0-8'	0-5'	0-5'	0-5'	0-8'	0-5'	0-5'	0-6'	0-8'	0-5'	0-5'
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	99.4	100.0	100.0	100.0	94.5	100.0	100.0	100.0
	# 10 SIEVE	92.0	94.7	91.5	98.2	95.6	98.6	93.8	67.2	91.5	98.5	95.2
	# 40 SIEVE	81.1	74.3	81.2	89.2	84.2	89.2	79.3	54.3	67.2	84.2	72.0
	# 60 SIEVE	76.3	79.3	74.0	83.6	79.0	82.0	63.2	48.7	60.5	76.0	61.3
	# 200 SIEVE	58.9	63.9	52.0	64.1	61.2	61.5	52.4	30.6	40.6	56.6	36.5
% CLAY		40.4	41.8	30.5	42.2	39.4	43.4	44.4	13.8	17.5	23.1	10.4
For material passing No. 10 sieve	% VOL. CHANGE	13.9	23.0	21.1	11.0	20.8	12.5	21.0	7.0	17.5	23.6	18.2
	% SWELL	9.7	19.1	19.0	7.2	16.1	8.3	15.1	6.3	14.5	19.7	14.9
	% SHRINKAGE	4.2	3.9	2.1	3.8	4.7	4.2	5.9	0.6	3.0	3.9	3.3
	MAX. DRY DENSITY [pcf]	104.6	102.1	110.0	97.7	105.3	106.6	103.5	129.0	112.4	110.3	112.5
	% OPT. MOISTURE	18.5	19.0	15.5	21.7	17.4	16.1	17.2	9.2	14.4	14.7	13.8
LIQUID LIMIT						54.0		58.0				
PLASTIC LIMIT						32.0		30.0				
EROSION INDEX		2.87	2.26	3.73	2.26	2.50	2.50	3.61	6.32	5.09	3.12	5.58
RESISTIVITY[ohm-cm]												
SOIL SUPPORT VALUE						2.8		2.7				
pH												
% NATURAL MOISTURE		15.2	16.6	18.2	22.6	20.0	15.2	16.5	4.8	20.5	15.3	11.6
GDOT CLASSIFICATION		IIB4	IIB4	IIB4	IIB4	IIB4	IIB4	IIB4	IA2	IIB3	IIB4	IIB3

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00 (256)**
PI #: **0008256**

BORING NO.		R-39	R-41	R-35	R-37	R-38	R-40	R-50	R-52	R-54	R-56	R-51
LOCATION		Hwy 92 Ramp V	Hwy 92 Ramp V	Hwy 92 Ramp W	Hwy 92 Ramp W	Hwy 92 Ramp X	Hwy 92 Ramp X	Towne Lake Pkwy Ramp CC	Towne Lake Pkwy Ramp CC	Towne Lake Pkwy Ramp DD	Towne Lake Pkwy Ramp DD	Towne Lake Pkwy Ramp EE
STATION		14+00	20+00	31+00	36+00	31+00	39+00	11+00	17+00	13+00	20+00	30+00
DEPTH (ft)		0-12'	0-20'	0-5'	0-5'	0-10'	0-5'	0-5'	0-6'	0-5'	0-5'	0-5
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	# 10 SIEVE	99.5	99.0	92.5	84.5	95.9	93.9	98.4	93.9	98.3	98.4	91.8
	# 40 SIEVE	81.4	89.9	72.8	66.8	76.8	80.6	76.8	74.0	92.7	85.7	77.6
	# 60 SIEVE	71.2	83.6	64.0	58.7	68.3	70.2	67.4	63.5	88.0	77.4	69.7
	# 200 SIEVE	52.1	67.7	47.2	42.2	51.1	48.4	49.1	44.3	71.2	59.8	54.9
% CLAY		26.3	23.1	14.0	18.2	18.5	22.9	19.3	15.8	27.2	34.5	30.4
For material passing No. 10 sieve	% VOL. CHANGE	13.0	30.6	28.8	16.7	16.7	10.2	28.1	24.8	33.1	27.4	23.1
	% SWELL	8.4	24.4	25.8	11.6	11.4	5.4	26.1	22.1	28.5	21.4	19.8
	% SHRINKAGE	4.6	6.2	3.0	5.1	5.3	4.8	2.0	2.7	4.6	6.0	3.3
	MAX. DRY DENSITY [pcf]	107.7	93.0	107.2	105.5	106.6	115.5	113.1	114.2	93.6	102.1	104.3
	% OPT. MOISTURE	15.8	24.1	16.0	16.7	16.3	12.7	13.6	13.2	23.7	18.5	17.4
LIQUID LIMIT												
PLASTIC LIMIT												
EROSION INDEX		3.73	1.77	4.23	4.84	3.86	4.10	4.10	4.59	1.27	2.75	3.36
RESISTIVITY[ohm-cm]						4376			10642			
SOIL SUPPORT VALUE			3.8		3.7						2.0	
pH						6.19			6.05			
% NATURAL MOISTURE		18.3	31.4	20.3	14.9	13.7	13.2	12.9	9.7	25.5	18.6	14.9
GDOT CLASSIFICATION		IIB3	IIIC2	IIIC1	IIB3	IIB3	IIB3	IIIC1	IIB4	IIIC2	IIIC1	IIB4

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00 (256)**
PI #: **0008256**

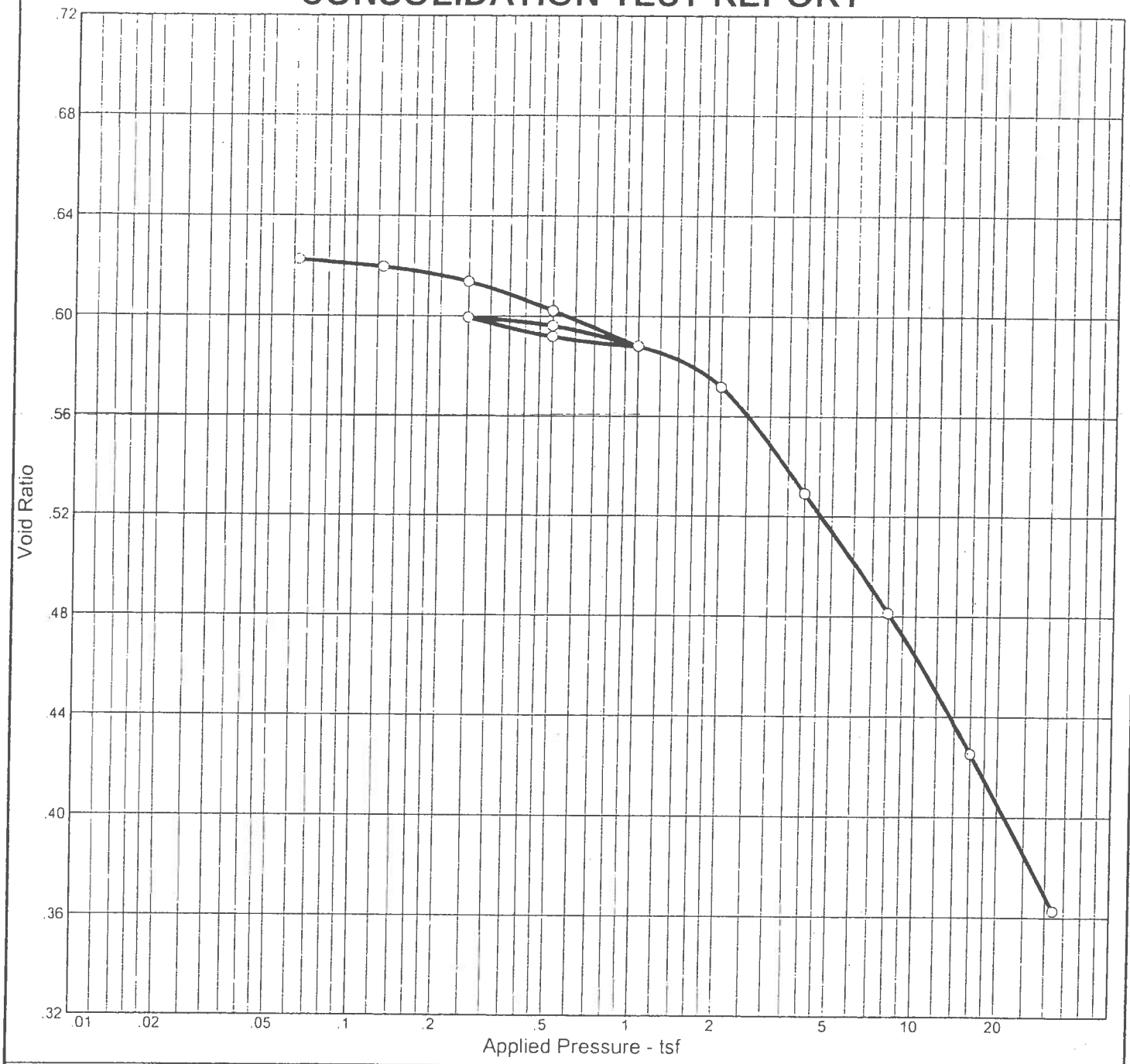
BORING NO.		R-53	R-55	R-57	R-59	R-60	R-58	R-61	R-49	R-43	R-7	R-6
LOCATION		Towne Lake Pkwy Ramp EE	Towne Lake Pkwy Ramp FF	Towne Lake Pkwy Ramp FF	Sixes Rd Ramp GG	Sixes Rd Ramp GG	Sixes Rd Ramp HH	Sixes Rd Ramp HH	Dupree Rd 20' North	Dupree Rd 30' South	Big Shanty Rd, 24' South	Big Shanty Rd, 19' South
STATION		42+00	33+00	40+00	11+00	16+00	30+00	38+00	31+50	38+50	37+50	42+50
DEPTH (ft)		0-10	0-8	0-12	0-15	0-10	0-5	0-12	0-5'	0-5'	0-5'	0-5'
% Passing	1-1/2" SIEVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	3/4" SIEVE	100.0	100.0	100.0	100.0	100.0	95.3	100.0	100.0	100.0	100.0	97.0
	# 10 SIEVE	97.6	95.2	93.6	93.6	89.7	83.9	97.5	73.5	89.5	94.9	66.3
	# 40 SIEVE	85.1	81.2	84.8	76.8	69.2	65.5	74.8	57.2	71.6	76.0	51.0
	# 60 SIEVE	76.9	73.2	74.0	66.1	57.6	55.0	63.8	49.2	64.1	69.4	45.7
	# 200 SIEVE	60.3	52.7	41.8	41.3	35.3	34.8	43.1	30.0	44.5	52.9	32.2
% CLAY		32.3	10.7	9.3	10.8	11.0	12.1	23.2	16.4	26.6	37.0	13.7
For material passing No. 10 sieve	% VOL. CHANGE	32.1	42.6	40.0	22.5	24.0	19.4	19.6	9.5	17.7	16.9	15.2
	% SWELL	26.4	40.7	38.3	21.1	21.2	18.0	16.2	7.7	16.6	12.6	13.7
	% SHRINKAGE	5.7	1.9	1.7	1.4	2.8	1.4	3.4	1.8	1.1	4.3	1.5
	MAX. DRY DENSITY [pcf]	101.2	109.1	109.2	109.9	110.7	114.7	106.2	120.5	112.0	110.1	123.5
	% OPT. MOISTURE	18.9	15.2	15.1	14.9	14.5	13.0	16.5	12.9	15.0	15.2	8.5
LIQUID LIMIT										48.0		30.0
PLASTIC LIMIT										31.0		24.0
EROSION INDEX		2.63	3.61	4.96	4.96	5.71	5.83	4.84	6.44	4.59	3.61	6.07
RESISTIVITY[ohm-cm]					2984							
SOIL SUPPORT VALUE		2.8				2.7		3.1		2.8		2.4
pH					4.70							
% NATURAL MOISTURE		20.4	22.8	19.1	7.5	9.8	7.2	15.4	9.4	11.3	15.0	16.9
GDOT CLASSIFICATION		IIIC2	IIIC3	IIIC3	IIB4	IIB4	IIB3	IIB3	IIB1	IIB3	IIB3	IIB2

810.02 LAB TEST SUMMARY

PROJECT NAME: **Northwest Corridor Project: I-575 from Barrett Parkway to Sixes Road**
GA DOT PROJECT #: **CSNHS-0008-00 (256)**
PI #: **0008256**

BORING NO.		R-30	R-29									
LOCATION		Shallowford Rd, 15' South	Shallowford Rd, 30' South									
STATION		34+50	37+50									
DEPTH (ft)		0-5'	0-5'									
% Passing	1-1/2" SIEVE	100.0	100.0									
	3/4" SIEVE	100.0	100.0									
	# 10 SIEVE	93.7	94.6									
	# 40 SIEVE	78.9	79.9									
	# 60 SIEVE	71.4	72.2									
	# 200 SIEVE	56.7	54.7									
% CLAY		43.7	37.8									
For material passing No. 10 sieve	% VOL. CHANGE	12.9	18.6									
	% SWELL	8.9	15.1									
	% SHRINKAGE	4.0	3.5									
	MAX. DRY DENSITY [pcf]	102.1	107.4									
	% OPT. MOISTURE	19.8	16.3									
LIQUID LIMIT			56.0									
PLASTIC LIMIT			32.0									
EROSION INDEX		3.12	3.36									
RESISTIVITY[ohm-cm]												
SOIL SUPPORT VALUE			4.1									
pH												
% NATURAL MOISTURE		17.1	15.2									
GDOT CLASSIFICATION		IIB4	IIB3									

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (tsf)	P_c (tsf)	C_c	C_r	Swell Press. (tsf)	Swell %	e_o
91.4 %	21.6 %	101.8	35	16	2.65	0.03	3.68	0.21	0.02			0.625

MATERIAL DESCRIPTION	USCS	AASHTO
Gray Clayey SAND	SC	

Project No. 476-65003 **Client:**

Project: Northwest Corridor Metro Atlanta

Source: Borings **Sample No.:** 542+00/ S-2 **Elev./Depth:** 10.0-12.0'

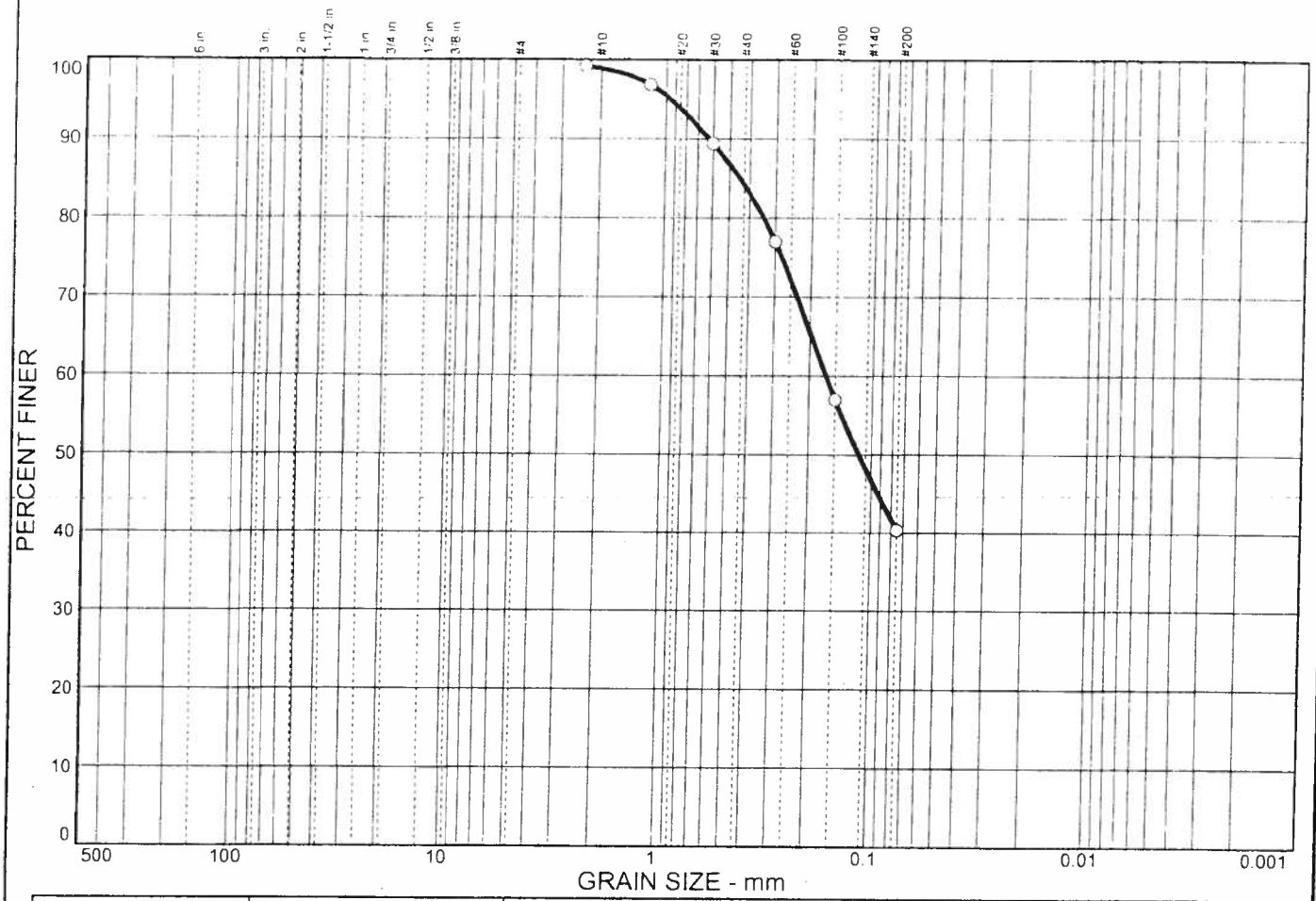
Remarks:

CONSOLIDATION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
			40.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#8	99.2		
#16	96.8		
#30	89.4		
#50	77.0		
#100	57.0		
#200	40.3		

* (no specification provided)

Material Description

Gray Clayey SAND

Atterberg Limits

PL= 19 LL= 35 PI= 16

Coefficients

D_{85}= 0.446 D_{60}= 0.166 D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= SC AASHTO=

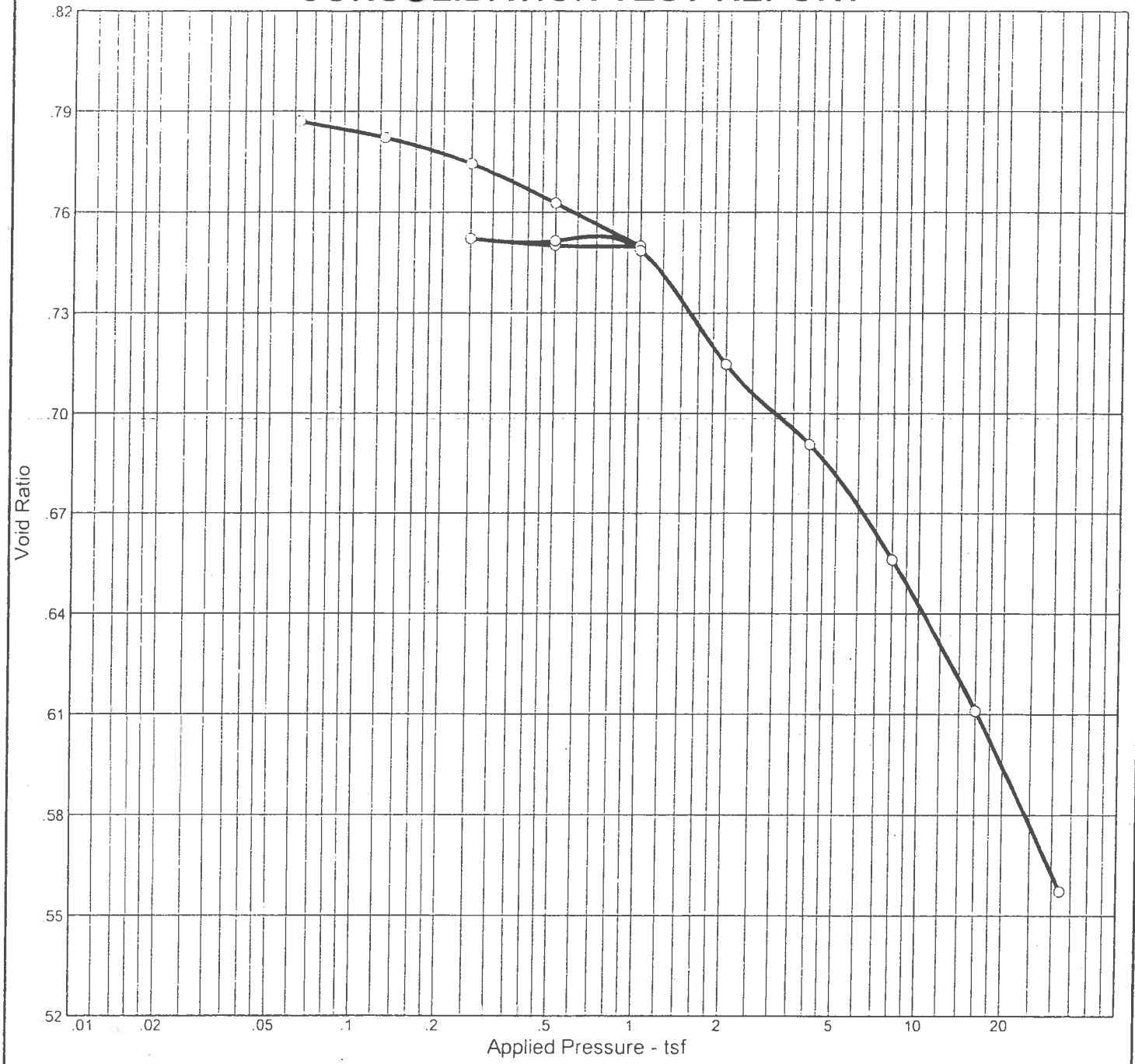
Remarks

Sample No.: 542+00/ S-2 Source of Sample: Borings Date: 12/12/2007
Location: Elev./Depth: 10.0-12.0'

PROFESSIONAL SERVICE INDUSTRIES, INC.

Client:
Project: Northwest Corridor Metro Atlanta
Project No: 476-65003 Figure

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (tsf)	P_c (tsf)	C_c	C_r	Swell Press. (tsf)	Swell %	e_o
75.7 %	22.8 %	92.0		NP	2.65	0.03	3.77	0.18	0.00			0.799

MATERIAL DESCRIPTION	USCS	AASHTO
Dark Brown Silty SAND	SM	

Project No. 476-65003 **Client:**

Project: Northwest Corridor Metro Atlanta

Source: Borings **Sample No.:** 581+00/S-1 **Elev./Depth:** 13.0-15.0'

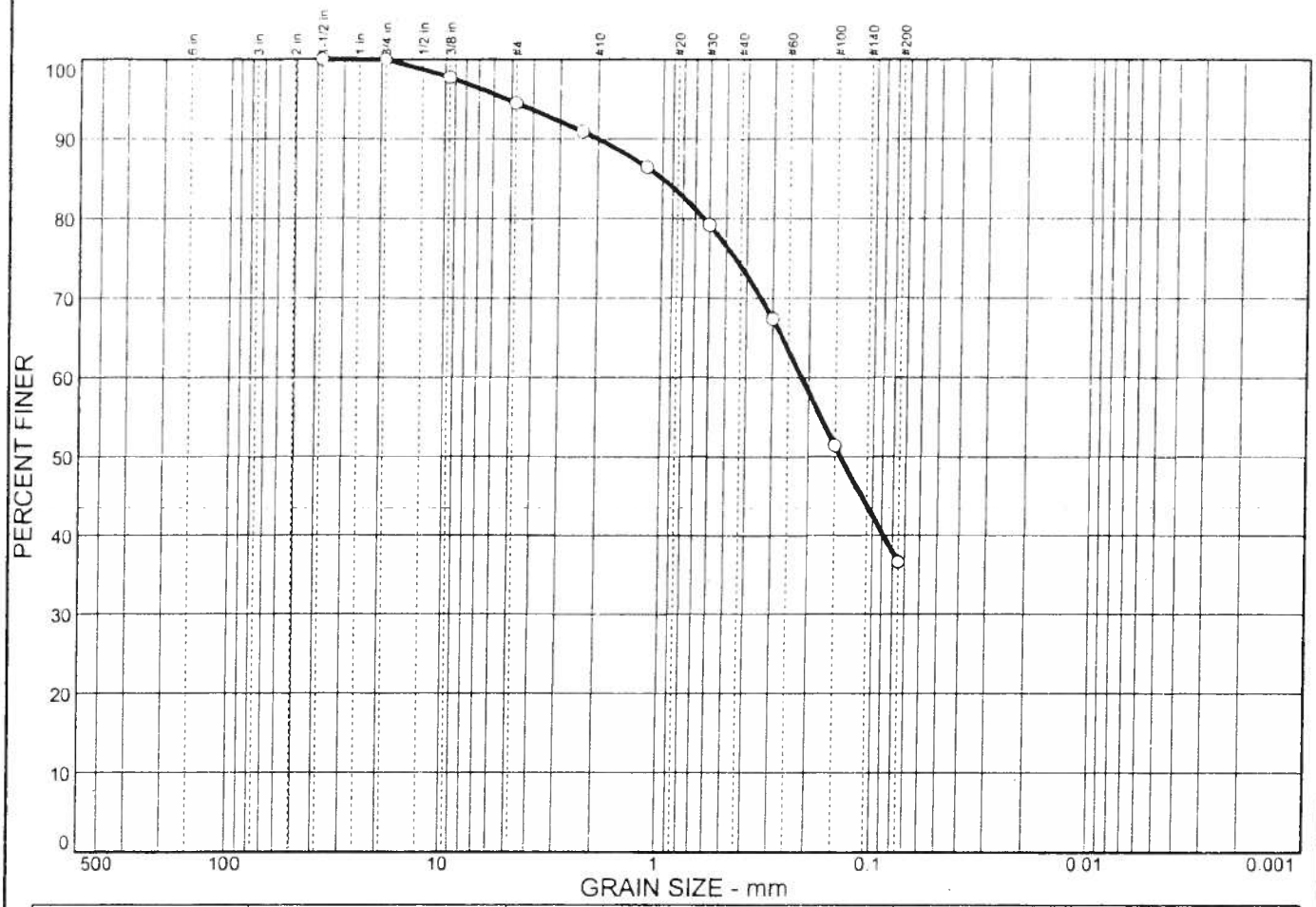
Remarks:

CONSOLIDATION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	5.5	57.9	36.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
.75 in.	100.0		
.375 in.	97.7		
#4	94.5		
#8	90.9		
#16	86.4		
#30	79.2		
#50	67.4		
#100	51.4		
#200	36.6		

* (no specification provided)

Material Description

Dark Brown Silty SAND

Atterberg Limits

PL= NP LL= PI= NP

Coefficients

D_{85}= 1.00 D_{60}= 0.216 D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= SM AASHTO=

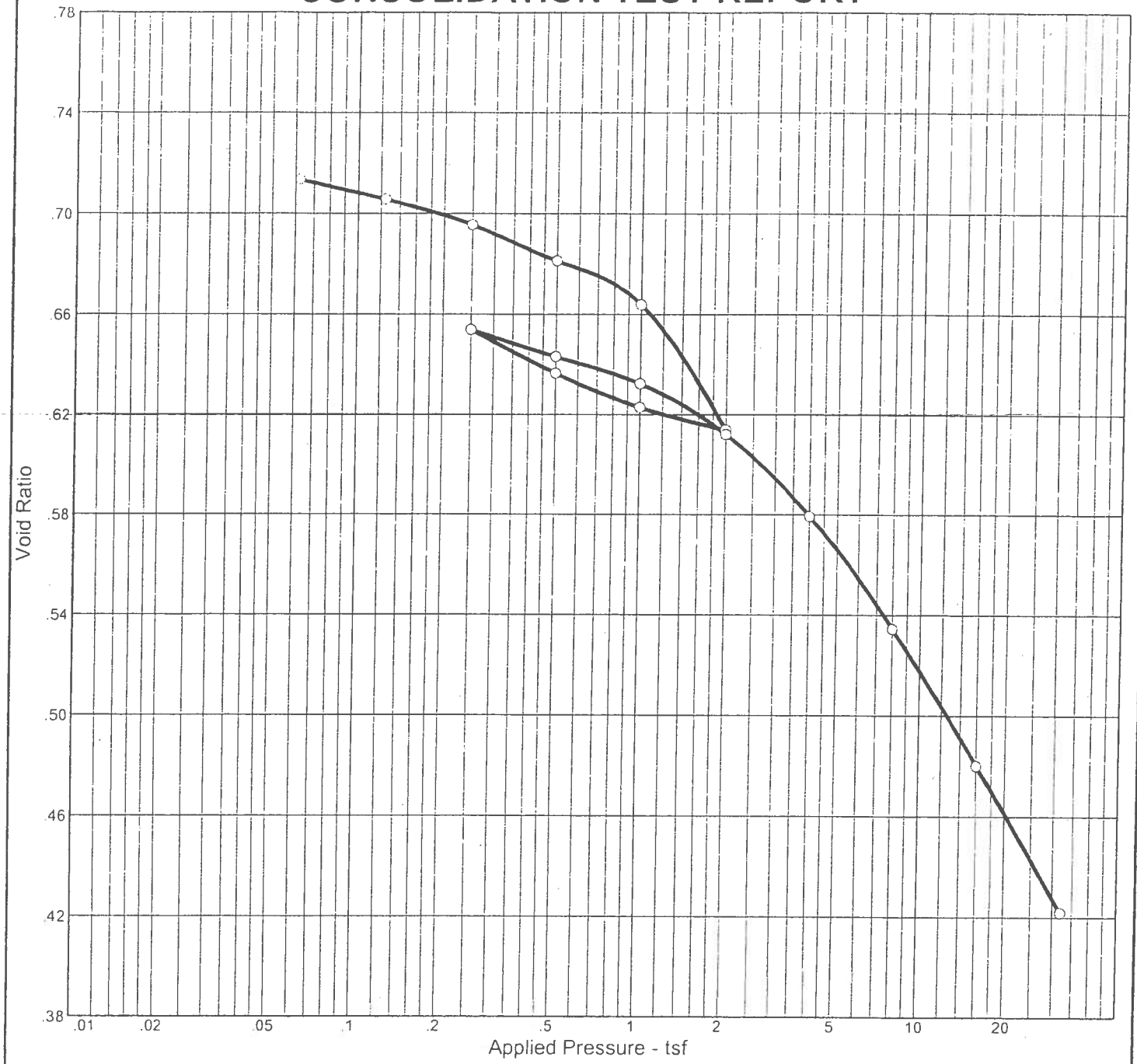
Remarks

Sample No.: 581+00/S-1 Source of Sample: Borings Date:
Location: Elev./Depth: 13.0-15.0'

PROFESSIONAL SERVICE INDUSTRIES, INC.

Client:
Project: Northwest Corridor Metro Atlanta
Project No: 476-65003 Figure

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (tsf)	P_c (tsf)	C_c	C_r	Swell Press. (tsf)	Swell %	e_o
108.3 %	30.2 %	95.2	34	14	2.65	0.36	1.80	0.19	0.05			0.738

MATERIAL DESCRIPTION	USCS	AASHTO
Dark Gray Clayey SAND	SC	

Project No. 476-65003 **Client:**

Project: Northwest Corridor Metro Atlanta

Source: Borings **Sample No.:** 581+00/S-2 **Elev./Depth:** 16-18.0'

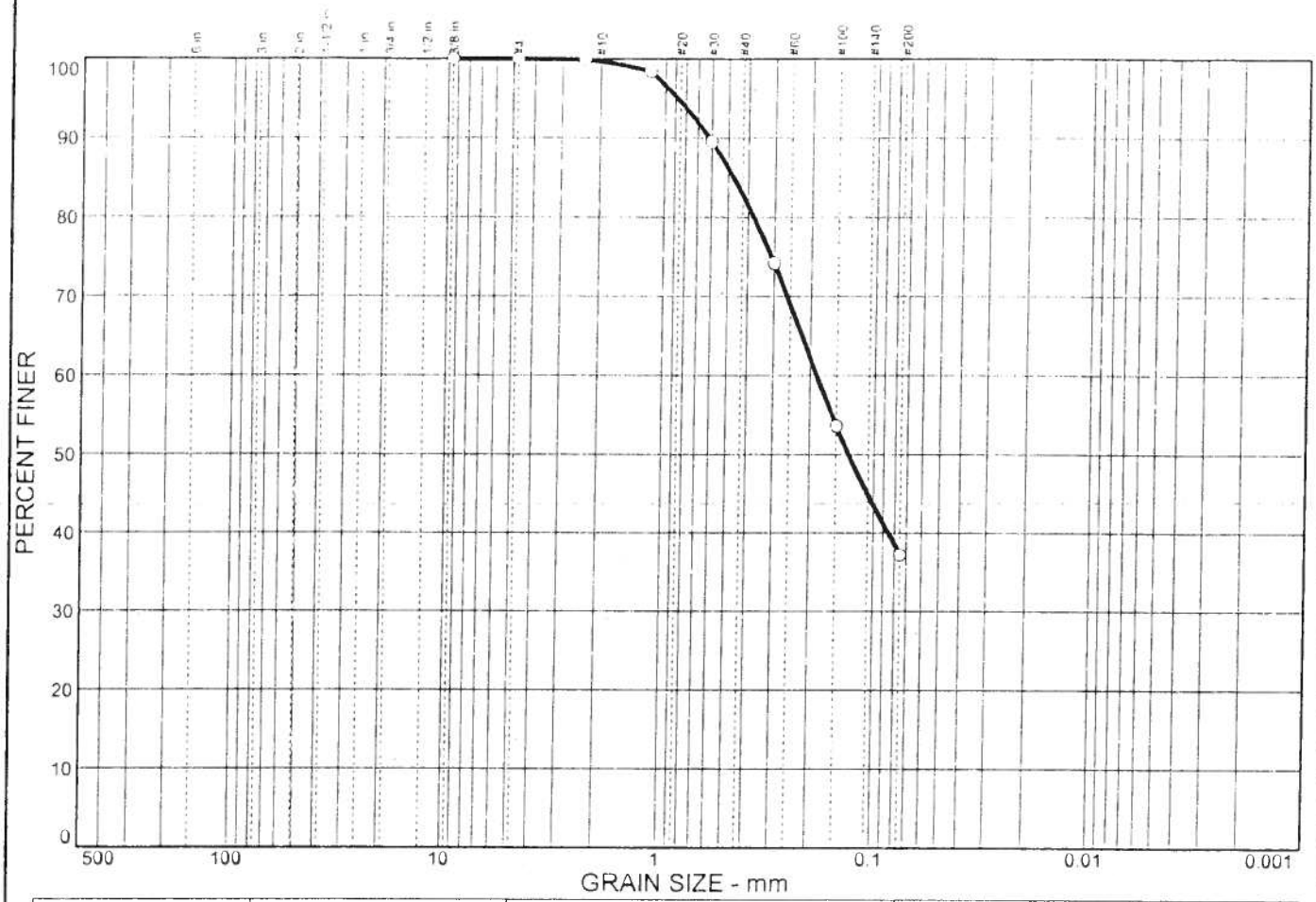
Remarks:

CONSOLIDATION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	62.8	37.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	100.0		
#8	99.9		
#16	98.4		
#30	89.5		
#50	74.2		
#100	53.6		
#200	37.2		

* (no specification provided)

Material Description

Dark Gray Clayey SAND

Atterberg Limits

PL= 20 LL= 34 PI= 14

Coefficients

D_{85}= 0.471 D_{60}= 0.187 D_{50}= 0.131
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= SC AASHTO=

Remarks

Sample No.: 581+00/S-2 Source of Sample: Borings Date:
Location: Elev./Depth: 16-18.0'

PROFESSIONAL SERVICE INDUSTRIES, INC.

Client:
Project: Northwest Corridor Metro Atlanta
Project No: 476-65003 Figure