BID ADDENDUM #1

DATE:	August 26, 2022
PROJECT:	15th Street Extension
PROJECT NUMBER:	P.I. NO. 0015019

This Addendum shall be incorporated into the contact documents. The Project Manual and Biding Documents shall be altered as noted below.

Pre-Bid Conference

See attached Pre-Bid Conference Minutes and list of attendees

Changes to Bid Documents:

Adjustment in Bid Quantities have resulted in the following

1. Replace Section 00300 "Bid Form" with the attached.

Addition of Geotechnical Report has resulted in the following

1. Replace Table of Contents Section 00010
2. Add Attachment B – 15th Street Extension Project – Soil Survey Report

Changes to Contract Drawings

Adjustment in Bid Quantities have resulted in the following

1. Replace Drawing 01-0001 with the attached
2. Replace Drawing 03-0001 with the attached
3. Replace Drawing 06-0001 with the attached
4. Replace Drawing 06-0003 with the attached
5. Replace Drawing 07-0001 with the attached

BID ADDENDUM #1

MEETING MINUTES
PRE-BID CONFERENCE

Thursday, August 25, 2022
15th Street Extension
P. I. 0015019

****

Welcome and Meeting Logistics
Cladie Washburn
Director of Capital Projects
Midtown Alliance

- Sign-in via Chat (Name, company affiliation, email, phone)
    i. See list of attendees at end of minutes
    ii. Meeting is being recorded
    iii. Introduced Phil Meador as pre-construction PM for Midtown Alliance and pitched it to him

- Disclaimer
    "Nothing said in this Pre-Bid conference shall change or alter any written project document. Should Midtown Alliance want to alter, amend, clarify, or change a project document it will be done in writing as a Bid Addendum."

- Introduction
    - Sponsor – City of Atlanta
        i. Grant recipient
    - Implementation Manager – Midtown Alliance
        i. MA will hold contract directly with GC
    - Engineer – Jacobs
        i. EoR will observe and speak to design throughout project
    - Project Manager – Atlas
        i. Onboarding for CEI and testing

- Project Overview
    - The project is funded by Federal via Atlanta Regional Commission, State via GDOT, City of Atlanta Impact Fees, and Midtown Improvement District
        i. Local LET, designed in accordance with PDP
    - GDOT DBE Program and Goal
        i. 13% utilizing GDOT DBE Program
    - Project Description and Boundaries
        i. WPT to Williams (all require GDOT and City lane closure permits)
        ii. new road, storm drainage, streetlighting, bike lanes, sidewalks, landscaping, traffic signals in coordination with existing and proposed driveways, and proposed new utilities services to adjacent property owners.
        iii. Steep grades, matching existing profiles of existing streets, several special grading plans included, extensive rock, typ streetscape section inclusive of rock removal for trees and drainage, retaining wall to protect existing structures outside of the RoW

- Ownership of land
    i. Currently GDOT and will remain so until construction is complete and certified then alignment will be turned over to City
- Project Durations and Liquidated Damages
    i. 540 days with GDOT Section 108 LDs
- Special Conditions and Milestones
    i. Alignment is currently occupied by Private contractors utilizing the sites for parking and staging for various private development. Upon Midtown Alliance 30 day notice vacate, sites are to be cleared and returned to conditions in which there were found and Series 19 Staging plans will be implemented.
    ii. Indexing asphalt
    iii. Vibration Monitoring is responsibility of Contractor
    iv. Noise ordinances are in effect
    v. Contractor will be responsible for maintaining ADA and Pedestrina access to businesses within the ROW
    vi. Contractor to design termination of Wall No. 1
    vii. Series 19 Staging plans – In support of Developer Hanover on SW corner 15th and WPT Contact: Project Manager Stephan Oliver @ 770-910-3878
    viii. Milestone Completion activities A & B with LDs
        1. Milestone A – Storm Drain system from Spring to WPT along North curb by March 17th, 2023
        2. Milestone B – Access established to Hanover Driveway along south curb line of 15th between WPT and Spring by April 14th, 2023
        3. Contractor is expected to coordinate closely with Developer including erosion control coordination.
- GDOT Specifications, Special Provisions and CoA Public Right of Way Manual.
- Base Bid and Alternates
    i. Base Bid includes Wall No. 2.
    ii. Bid Alternate structure to remove scope associated with Wall No. 2 as the completion of the Hanover development will eliminate the need.
- Bid Addendum
    - Geotechnical Report
    - Bid Form to adjust wall quantities
    - Drawings associated with quantity adjustments
    - Minutes form Pre-Bid with list of attendees

Floor Open for Questions

****

Sealed bids due by 2:00 p.m. ET on September 15, 2022

If you have any questions concerning this project, please direct your inquiries in writing to Midtown Alliance at **business@midtownatl.com with subject line: PI-0015019 15th Street Extension – [insert nature of email].** All questions must be submitted by email by **5:00 p.m. ET on August 31, 2022.** The response to the questions will be sent as an addendum.

Any question that you asked during this conference must be submitted in writing in order for the response to be considered as a part of the bid documents.

- Don't forget to Sign-in via Chat (Name, company affiliation, email, phone)
- Thank you for attending

****

LIST OF ATTENDEES:

Cladie Washburn, Midtown Alliance
Forrest Rose, Midtown Alliance
Phil Meador, PM consultant to Midtown Alliance
Ibrahim Abousaud, City of Atlanta
Bryant Poole, Atlas – PM consultant to Midtown Alliance
Hank Collins, Atlas
Bryant Poole, Atlas
David Kasbo, Jacobs – Engineer of Record, consultant to Midtown Alliance
Hatem Aly, Jacobs
Ashley Chan, Jacobs
Karri Thomas, Jacobs
Paige Heath, CW Mathews
Reginald Lampkin, Jr., CW Mathews
Fenil Shah, Astra

PROJECT 15TH STREET EXTENSION – ADDEDNDUM No. 1

Pay Item	Item Description	Unit	Quantity	Unit Price	Cost
	Roadway Items				
109-0300	PRICE ADJUSTMENT – ASPHALT CEMENT	TBD	TBD	TBD	TBD
150-1000	TRAFFIC CONTROL - 0015019	LS	1		
150-5010	TRAFFIC CONTROL, PORTABLE IMPACT ATTENUATOR	EA	5		
154-1000	CONSTRUCTION VIBRATION MONITORING	LS	1		
205-0210	EXCAVATION - ROCK	CY	12800		
210-0100	GRADING COMPLETE - 0015019	LS	1		
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	270		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	TN	310		
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	620		
310-1101	GR AGGR BASE CRS, INCL MATL	TN	1930		
413-0750	TACK COAT	GL	700		
432-5010	MILL ASPH CONC PVMT, VARIABLE DEPTH	SY	800		
437-1571	STRAIGHT GRANITE CURB, 5 IN X 17 IN, TP A	LF	1310		
437-2571	CIRCULAR GRANITE CURB, 5 IN X 17 IN, TP A	LF	345		
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	100		
441-0104	CONC SIDEWALK, 4 IN	SY	2250		
441-0108	CONC SIDEWALK, 8 IN	SY	40		
441-0018	DRIVEWAY CONCRETE, 8 IN TK	SY	110		
600-0001	FLOWABLE FILL	CY	80		
620-0100	TEMPORARY BARRIER, METHOD NO. 1	LF	460		
643-8200	BARRIER FENCE (ORANGE), 4 FT	LF	125		
643-8300	ORNAMENTAL FENCE	LF	508		
500-3201	CLASS B CONCRETE, RETAINING WALL	CY	39		
700-6910	PERMANENT GRASSING	AC	0.3		
700-7000	AGRICULTURAL LIME	TN	0.1		
700-8000	FERTILIZER MIXED GRADE	TN	0.2		
700-8100	FERTILIZER NITROGEN CONTENT	LB	15		
700-9300	SOD	SY	50		

	Wall Items				
207-0203	FOUND BKFILL MATL, TP II	CY	617		
627-1000	MSE WALL FACE, 0 - 10 FT HT, WALL NO - 1	SF	580		
627-1010	MSE WALL FACE, 10 - 20 FT HT, WALL NO - 1	SF	419		
627-1120	COPING B, WALL NO - 1	LF	119		
500-3115	CLASS A CONCRETE, TYPE P2, RETAINING WALL	LF	91		
500-3120	CLASS A CONCRETE, TYPE P3, RETAINING WALL	LF	54		

	Drainage Items				
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	810		
668-1105	CATCH BASIN, GP 1, SPCL DES	EA	10		
668-1110	CATCH BASIN, GP 1, ADDL DEPTH	LF	6.41		
668-2100	DROP INLET, GP 1	EA	4		
668-4400	STORM SEWER MANHOLE, TP 2	EA	2		
668-5000	JUNCTION BOX	EA	2		

	Erosion Items				
163-0232	TEMPORARY GRASSING	AC	1		
163-0240	MULCH	TN	20		
163-0310	CONSTRUCTION EXIT TIRE CLEANING STATION (PER DAY)	EA	4		
163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	EA	4		
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	23		
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	1663		
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	4		
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA (PER EACH)	EA	4		
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	23		
167-1500	WATER QUALITY INSPECTIONS	MO	24		
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	4		
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	3325		

	Signing and Marking Items				
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	105		
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	55		
636-2070	GALV STEEL POSTS, TP 7	LF	302.5		
659-5013	HOT APPLIED PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYMBOLS, WHITE, TP P	EA	11		
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	9		
653-0210	THERMOPLASTIC PVMT MARKING, WORD, TP 1	EA	3		
659-7015	HOT APPLIED PREFORMED PLASTIC PVMT MKG, BIKE LANE MARKING, TP P	EA	13		
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	2900		
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	1200		
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	220		
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	1300		
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	380		
652-9000	TRAFFIC STRIPE, GREEN	SY	200		
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	50		

654-1003	RAISED PVMT MARKERS TP 3	EA	40		
654-1001	RAISED PVMT MARKERS TP 1	EA	36		

	Signal Items				
610-6872	REM STEEL STRAIN POLE	EA	2		
610-9001	REM SIGN	EA	1		
636-1041	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	SF	89		
639-3014	STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM - 25' AND 35' TANDEM MAST ARMS	EA	1		
639-3014	STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM - 35' MAST ARM	EA	1		
639-3014	STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM - 25' AND 45' MAST ARMS	EA	1		
639-3014	STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM - 25' MAST ARM	EA	1		
639-3014	STEEL STRAIN POLE, TP IV, INCL LUMINAIRE ARM - 35' AND 35' TANDEM	EA	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO - 1	LS	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO - 2	LS	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO - 3	LS	1		
653-0130	THERMOPLASTIC PVMT MARKING, ARROW, TP 3	EA	1		
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	270		
682-6233	CONDUIT, NONMETL, TP 3, 2 IN	LF	1385		
682-9950	DIRECTIONAL BORE - 7 IN	LF	375		
936-1000	CCTV SYSTEM - TYPE H	EA	1		
937-1000	VIDEO CAMERA SENSOR ASSEMBLY (DUAL-PURPOSE CCTV VIDEO DETECTION)	EA	3		
937-6150	PROGRAMMING MONITOR, TYPE A	EA	3		

	Lighting Items				
681-3600	LIGHTING STD, SPCL DESIGN - TP C	EA	15		
681-3600	LIGHTING STD, SPCL DESIGN - TP CH	EA	9		
681-3600	LIGHTING STD, SPCL DESIGN - SPARE - TYPE C	EA	2		
681-3600	LIGHTING STD, SPCL DESIGN - SPARE - TYPE CH	EA	1		
682-9950	DIRECTIONAL BORE - 1 1/2 IN	LF	70		
682-9950	DIRECTIONAL BORE - 5 IN	LF	350		
682-9021	ELECTRICAL JUNCTION BOX, CONC GROUND MOUNTED	EA	34		
682-6219	CONDUIT, NONMETL, TP 2, 1 IN	LF	50		
682-6221	CONDUIT, NONMETL, TP 2, 1 1/2 IN	LF	350		
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	3100		
682-6232	CONDUIT, NONMETL, TP 3, 1 1/2	LF	80		
682-6233	CONDUIT, NONMETL, TP 3, 2 IN	LF	800		
682-8995	POWER SERVICE CABINET	EA	1		

682-1405	CABLE, TP XHHW, AWG NO 8 - ALUMINUM	LF	11200		
682-1405	CABLE, TP XHHW, AWG NO 8 - COPPER	LF	150		
682-1406	CABLE, TP XHHW, AWG NO 6 - COPPER	LF	1000		
682-1407	CABLE, TP XHHW, AWG NO 4 - COPPER	LF	75		
682-1413	CABLE, TP XHHW, AWG NO 1/0 - COPPER	LF	525		
682-1414	CABLE, TP XHHW, AWG NO 3/0 - COPPER	LF	1200		
682-9400	REPAIR LIGHTING SYSTEM	LS	1		

	Landscaping Items				
702-0570	LIRIOPE SPICATA - 18 COUNT FLAT, 12" O.C.	EA	2380		
702-0905	QUERCUS PHELLOS - 25 GAL	EA	33		
702-9025	LANDSCAPE MULCH	SY	225		
708-1000	PLANT TOPSOIL	CY	225		
754-4000	WASTE RECEPTACLE UNIT	EA	8		
754-6000	BICYCLE RACK	EA	8		
900-0037	CONCRETE PAVERS	SF	392		
668-7024	DRAIN INLET, 24 IN	EA	1		
576-1012	SLOPE DRAIN PIPE, 12 IN	LF	65		

	ITS Items				
647-2141	PULL BOX, PB-4S	EA	2		
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	300		
682-6233	CONDUIT, NONMETL, TP 3, 2 IN	LF	1860		
935-1117	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 96 FIBER	LF	1675		
935-1512	OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 12 FIBER	LF	110		
935-3102	FIBER OPTIC CLOSURE, UNDERGROUND, 12 FIBER	EA	2		
935-3402	FIBER OPTIC CLOSURE, FDC (RACK MOUNTED), 12 FIBER	EA	2		
935-4010	FIBER OPTIC SPLICE, FUSION	EA	14		
935-8000	TESTING	LS	1		
939-2300	FIELD SWITCH, TYPE A	EA	2		
939-2237	GBIC, TYPE D	EA	7		
939-5010	ELECTRICAL POWER SERVICE ASSEMBLY, AERIAL SERVICE POINT	EA	2		

	UTILITY RELOCATIONS				
500-3101	CLASS A CONCRETE FOR THRUST BLOCKS	CY	1		
611-8050	ADJUST MANHOLE TO GRADE	EA	2		
611-8120	ADJUST WATER METER BOX TO GRADE	EA	1		
611-8010	ADJUST HYDRANT TO GRADE	EA	2		
611-8140	ADJUST WATER VALVE BOX TO GRADE	EA	3		
670-1060	WATER MAIN, 6 IN DIP	LF	60		

670-5620	WATER SERVICE LINE, 3/4 IN COPPER, TYPE K	LF	25		
670-9920	REMOVE EXISTING FIRE HYDRANT	EA	1		
670-9710	RELOCATE EXISTING FIRE HYDRANT	EA	1		

BASE BID SUBTOTAL	

	ALTERNATE 1				
437-1571	STRAIGHT GRANITE CURB, 5 IN X 17 IN, TP A	LF	-81		
441-0018	DRIVEWAY CONCRETE, 8 IN TK	SY	-25		
441-0104	CONC SIDEWALK, 4 IN	SY	-285		
500-3115	CLASS A CONCRETE, TYPE P2, RETAINING WALL	LF	-91		
500-3120	CLASS A CONCRETE, TYPE P3, RETAINING WALL	LF	-54		
TOTAL					

ALTERNATE SUBTOTAL	

TOTAL BID	

1. The BIDDER understands the IMPLEMENTATION MANAGER reserves the right to evaluate and award the Contract to the BIDDER based upon the method as stated in the Instructions to Bidders Section 00100.

2. The BIDDER understands that the IMPLEMENTATION MANAGER reserves the right to reject any or all bids and to waive any informalities in the bidding.

3. The BIDDER agrees that this bid shall be good and may not be withdrawn for a period of 120 calendar days after the scheduled closing time for receiving bids.

4. The BIDDER understands and agrees that the project scope is identified by the Plans and Specifications. Since it is not possible to have a line item for every work element shown on the Plans and Specifications included on the Bid From, the BIDDER has account for the costs of work elements which don't have a specific line item in Grading Complete.

5. The BIDDER understands and agrees that for all line items which are not Lump Sum, the Bidder had included in their Bid Total the number of units shown on the Bid From.

Signature: _____

Date: _____

Title _____

END OF SECTION

SECTION 00010
TABLE OF CONTENTS

INTRODUCTORY INFORMATION

Section 00001	Title Page
Section 00010	Table of Contents
Section 00020	Invitation to Bid
Section 00030	Notice to All Bidders
Section 00100	Instructions to Bidders

BIDDING REQUIREMENTS – <u>THE DOCUMENTS IN SECTION 00300 – 00480 ARE TO BE THE "BID SUBMITTAL PACKAGE"</u>

*Section 00300	Bid Form
*Section 00405	Corporate Certificate
*Section 00410	Bid Bond
*Section 00420	Federal Aid Certificate
*Section 00425	DBE Requirements
*Section 00435	Bid Opportunity List *(Submitted to Local per 102.18)*
*Section 00480	Oath of Successful Bidder
*Section 00490	Georgia Security and Immigration Compliance Act Affidavit

*Denotes forms that must be completed and submitted as the "Bid Submittal Package."

CONTRACT REQUIREMENTS

Section 00500	Form of Contract
Section 00505	Disadvantaged Business Enterprise Program
Section 00510	Georgia Department of Transportation Required Contract Provisions Federal Aid Construction
Section 00515	Davis-Bacon Wage Determination
Section 00520	Required Contract Provisions for Federal Aid Contracts
Section 00525	Notice to Contractors – Special Provision for Required Contract Provisions for Federal Aid Construction Contracts
Section 00530	Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)
Section 00540	Notice to Contractors: Compliance with Title VI of the Civil Rights Act of 1964 for Federal Aid Contracts
Section 00550	Required Contract Provisions Buy America & Convict Produced Material
Section 00555	Notice of Requirement of Affirmative Action to Ensure Equal Employment Opportunity
Section 00560	GA.D.O.T. Special Provision: Prompt Payment
Section 00570	Utility Conflicts
Section 00610	Contract Performance Bond
Section 00620	Payment Bond
Section 00690	General Conditions
Section 00700	Supplemental General Conditions
Section 00710	Appendix B – Insurance & Bonding Requirements
Section 00800	Special Conditions
Section 00810	Notice of Award
Section 00820	Notice to Proceed

Section 00850 Drawing Index

SPECIFICATIONS AND SPECIAL PROVISIONS

General Specifications

Section 01010 Summary of Work
Section 01025 Application for Payment
Section 01040 Project Coordination
Section 01050 Field Engineering
Section 01095 Reference Standards and Definitions
Section 01100 Incorporation of G.D.O.T. Standard Specifications
Section 01200 Project Meetings
Section 01300 Submittals
Section 01326 Construction Scheduling and Working within the Right-of-Way
Section 01400 Contractor's Quality Control Program and Safety Program
Section 01500 Construction Facilities
Section 01600 Materials and Equipment
Section 01630 Products and Substitutions
Section 01705 Contract Close-Out
Section 01710 Site Cleaning
Section 01720 Project Record Documents
Section 01732 Selective Demolition

Project Specific Technical Special Provisions

Section 107 Legal Regulations and Responsibility to the Public
Section 108.08 Prosecution and Progress
Section 109 Measurement and Payment
Section 109 Measurement and Payment
Section 150.6 Traffic Control
Section 154 Construction Vibration Monitoring
Section 161 Control of Soil Erosion and Sedimentation
Section 163 Miscellaneous Erosion Control Items
Section 167 Water Quality Monitoring
Section 171 Silt Fence
Section 201 Clearing and Grubbing Right of Way
Section 670 DWM Water Distribution System
Section 702 Vine, Shrub and Tree Planting

APPENDIX

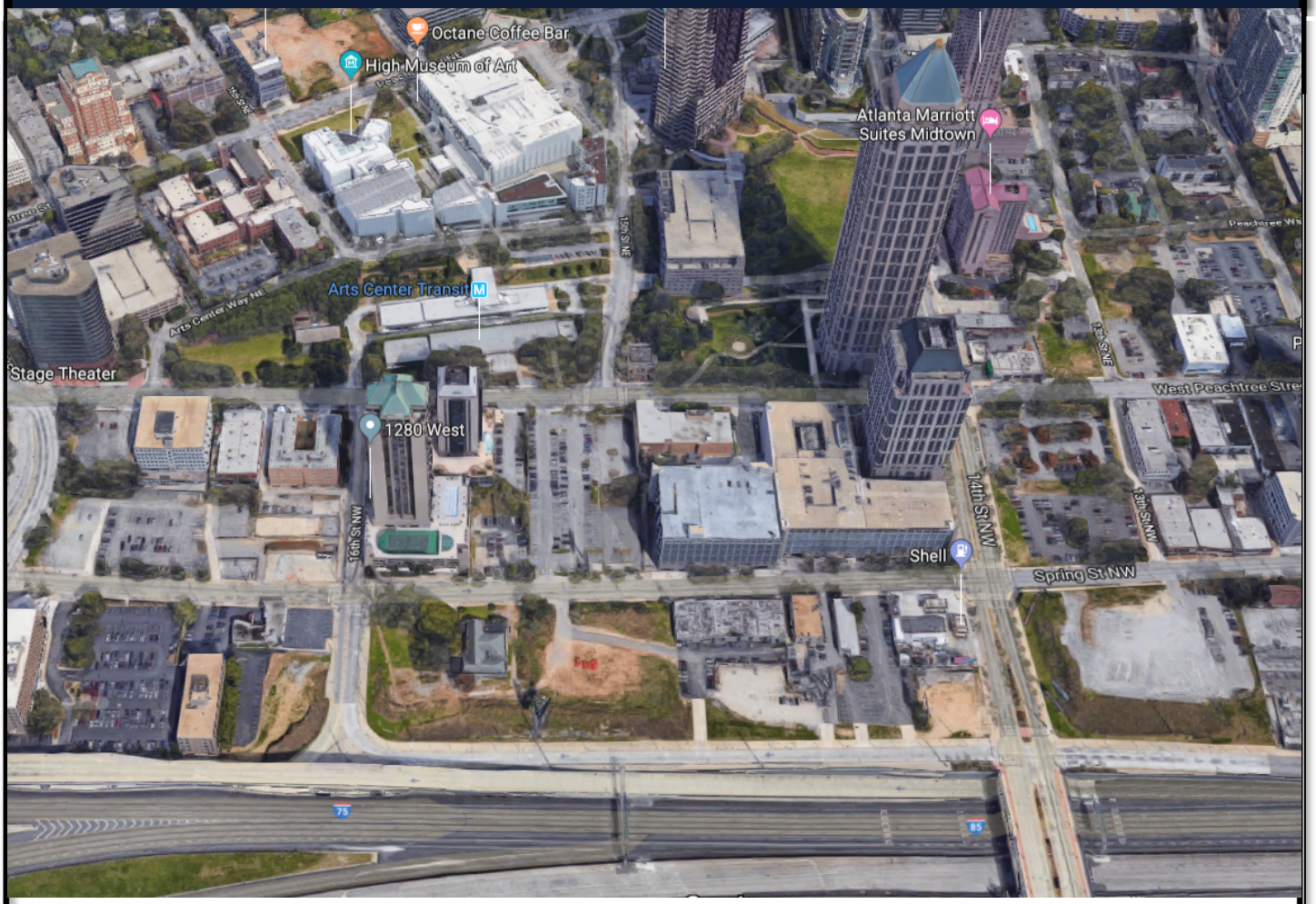
Attachment A – Environmental Commitments Table

Attachment B – 15th Street Extension Project – Soil Survey Report

BID ADDENDUM #1

SOIL SURVEY REPORT

15th Street Extension Project
Atlanta, Georgia



PREPARED BY

2MNEXT®

FOR

Jacobs Engineering Group, Inc.

10 Tenth Street, Suite 1400, Atlanta, GA 30309

Original Date: June 7, 2019
Revision No. 1 Date: September 5, 2019
Revision No. 2 Date: September 10, 2019
GDOT P.I. No. 0015019

Soil Survey Summary
15th Street Extension Project, City of Atlanta
Original Date: June 7, 2019
Revision No. 1 Date: September 5, 2019
Revision No. 2 Date: September 10, 2019
GDOT P.I. No. 0015019
Revision No. 2

1. **Location / Description** — This project is for the construction of 15th Street extension between West Peachtree St. N.W and Williams St. N.W. The project begins at Station 10+12.58 and continues east to Station 19+50.00. The project lies within the city limits of Atlanta in Fulton County. Boring locations are shown on Figure 1-2 and subsurface conditions are depicted on Sections 1-1 and 2-2 (Figures 2-1 and 2-2).

2. **Geology** — This project will be geologically sited in the Wahoo Creek Formation of the Georgia Piedmont Region.

3. **Rock** — Rock in the form of boulders and/or weathered rock layers, which may be removed by heavy equipment and/ or light blasting, were encountered on this project. We estimate that this material will be encountered at the following locations:

Station to Station	Location
11+00 to 12+80 LT/RT	Elev. 890’ to Elev. 900’

Hard rock, noted as auger refusal and requiring blasting for removal, was encountered above proposed grade at the following locations:

Station to Station	Location
10+20 to 12+80 LT/RT	Elev. 903’ and below

4. **Removal** — No materials requiring removal as encountered on this project.

5. **Waste** — None of the materials found on this project will require wasting.

6. **Subgrade Materials** — No additional subgrade material will be required for this project.

7. **Pavement Design Values** — We recommend the following values for use in the pavement design calculations for this project:

Soil Support Value = 2.0

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

8. Ditch Lining We recommend the following values for use in the ditch lining calculations for this project:

Plasticity Index, PI =	NP
D75 (mm) =	3.5
Unified Soils Classification System (USCS) =	SM

Sample 1962 from boring B-7 at station 12+70, 30' RT was used for ditch lining evaluation.

9. Slopes Maximum 2:1 slopes in soil will be appropriate for this project. Maximum 0.5:1 slopes will be appropriate for the rock cut sections of this project in accordance with the attached detail at the following locations:

Station to Station	**Location**
10+40 to 13+00	Lt., Rt.

10. Groundwater

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

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

12. Rock Swell We recommend the use of an average swell factor of 30% for material shown as hard rock.

13. 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.

14. Corrosion Reference should be made to the attached "Pipe Culvert Material Alternates" chart for materials allowable based on Historical pH and Resistivity Values.

15. 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 attached detail.

16. Serrated Slopes Serrated slopes will not be required on this project.

17. Special Problems Several buildings are located within 75 feet of the construction limits of this project. Vibration monitoring will be required due to vibrations from construction activities which may cause some concern with property owners. All work shall be performed in accordance with Special Provision 154: Vibration Monitoring.

Debris in the form of construction waste will need to be removed under clearing and grubbing. These materials were encountered at the following locations:

Station to Station	Location
10+40 to 13+00	Lt., Rt.

The existing conditions included asphalt covered surface, concrete slabs, some existing and possibly abandoned utilities, retaining walls, etc. Some construction debris including pieces of brick, pipe and concrete were noted at the surface between stations 10+70 and 12+00 during our field reconnaissance.

Such material shall be wasted outside the construction limits of the project.

Prepared By: Ali Razavi, PE

Approved By Name : Daimia Gunning, PE

Approved By Signature:

APPENDIX

Figure 1-1: Site Location Plan
Figure 1-2: Boring Location Plan
Figure 2-1: Subsurface Profiles
Figure 3: Rock Cut Detail
Figure 4: Benching Detail
Boring Logs (14)
Rock Core Picture Log
Laboratory Testing Report
Laboratory Data
Section 154 — Construction Vibration Monitoring
Pipe Culvert Material Alternates

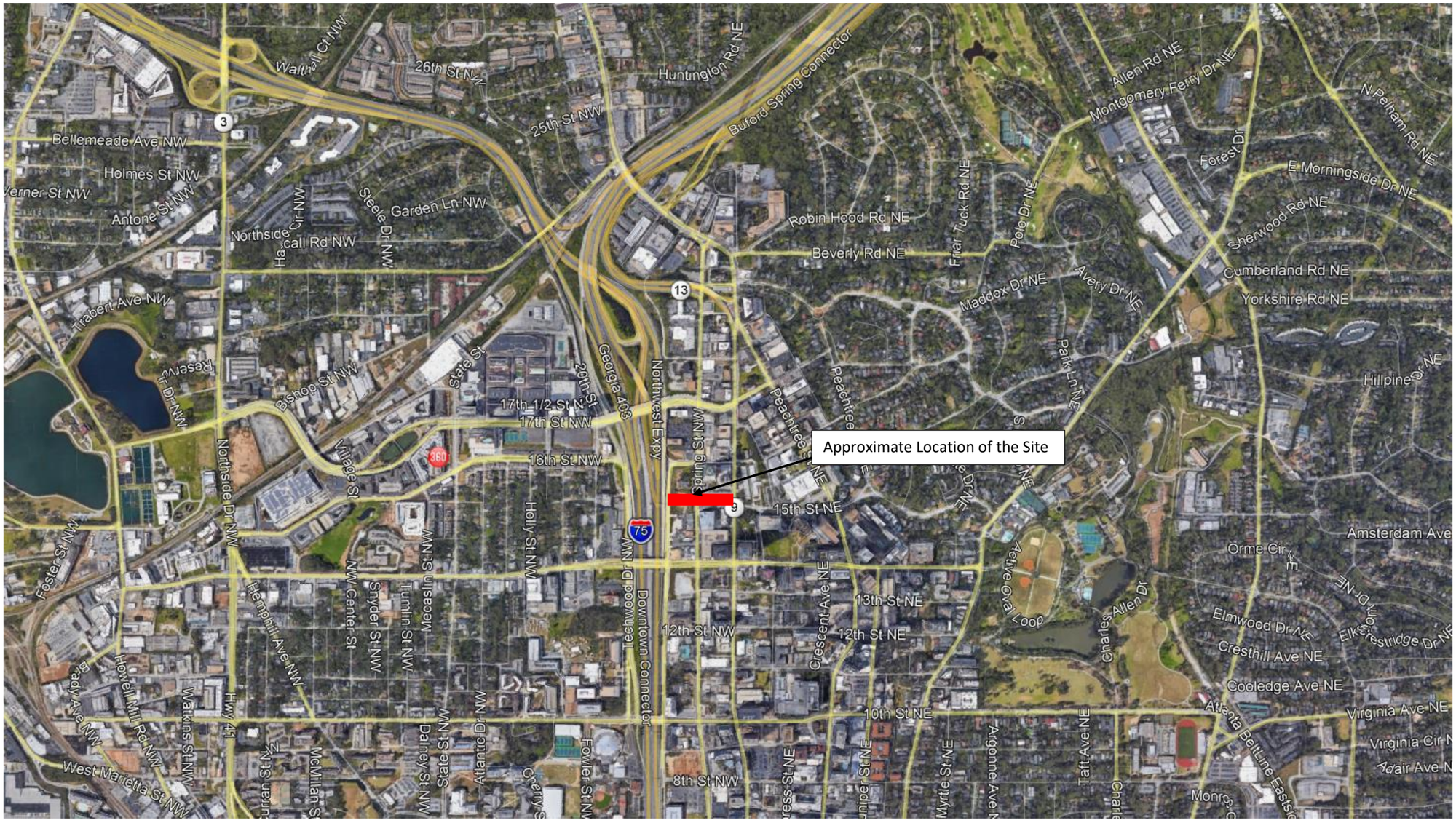
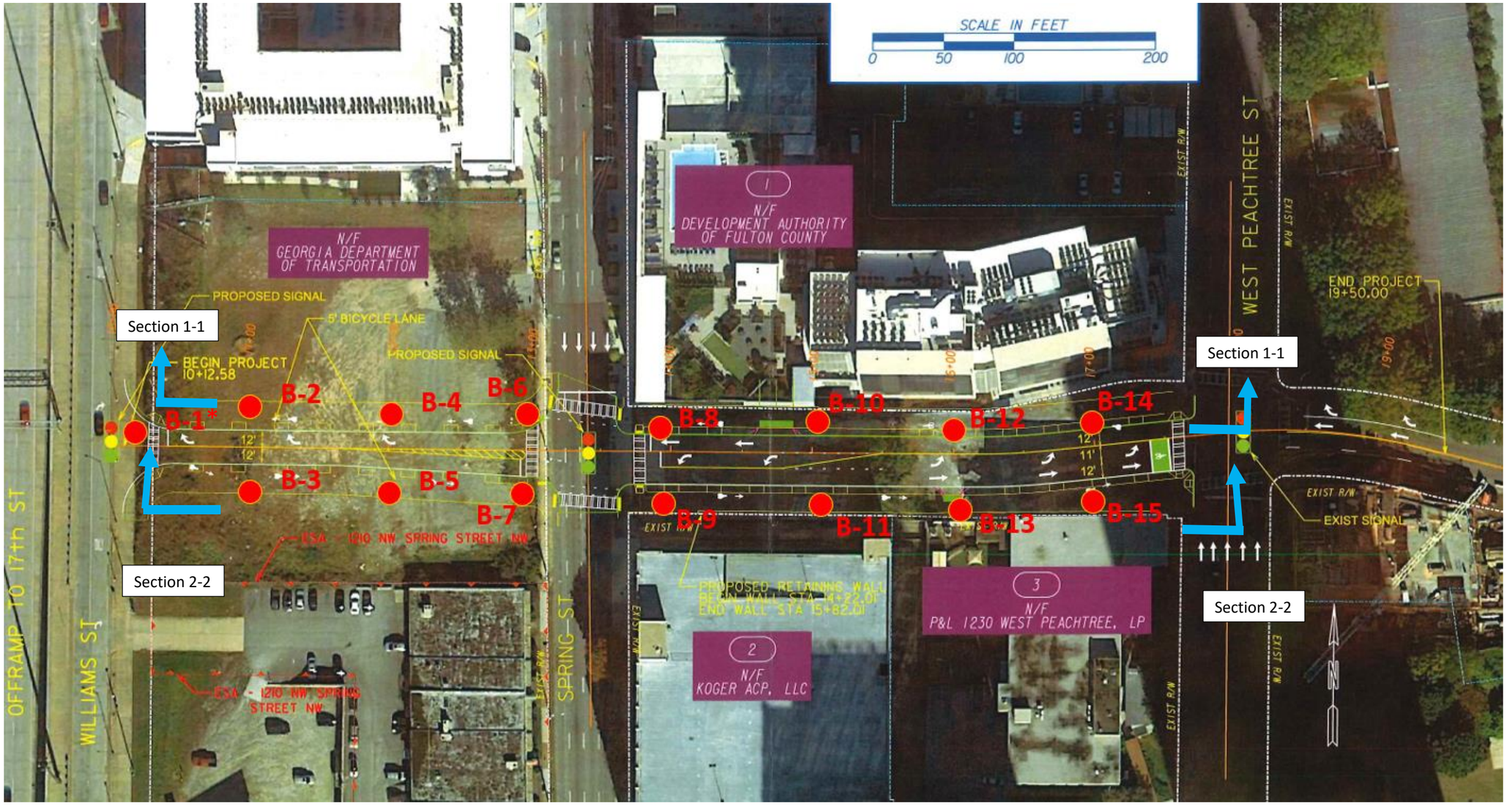


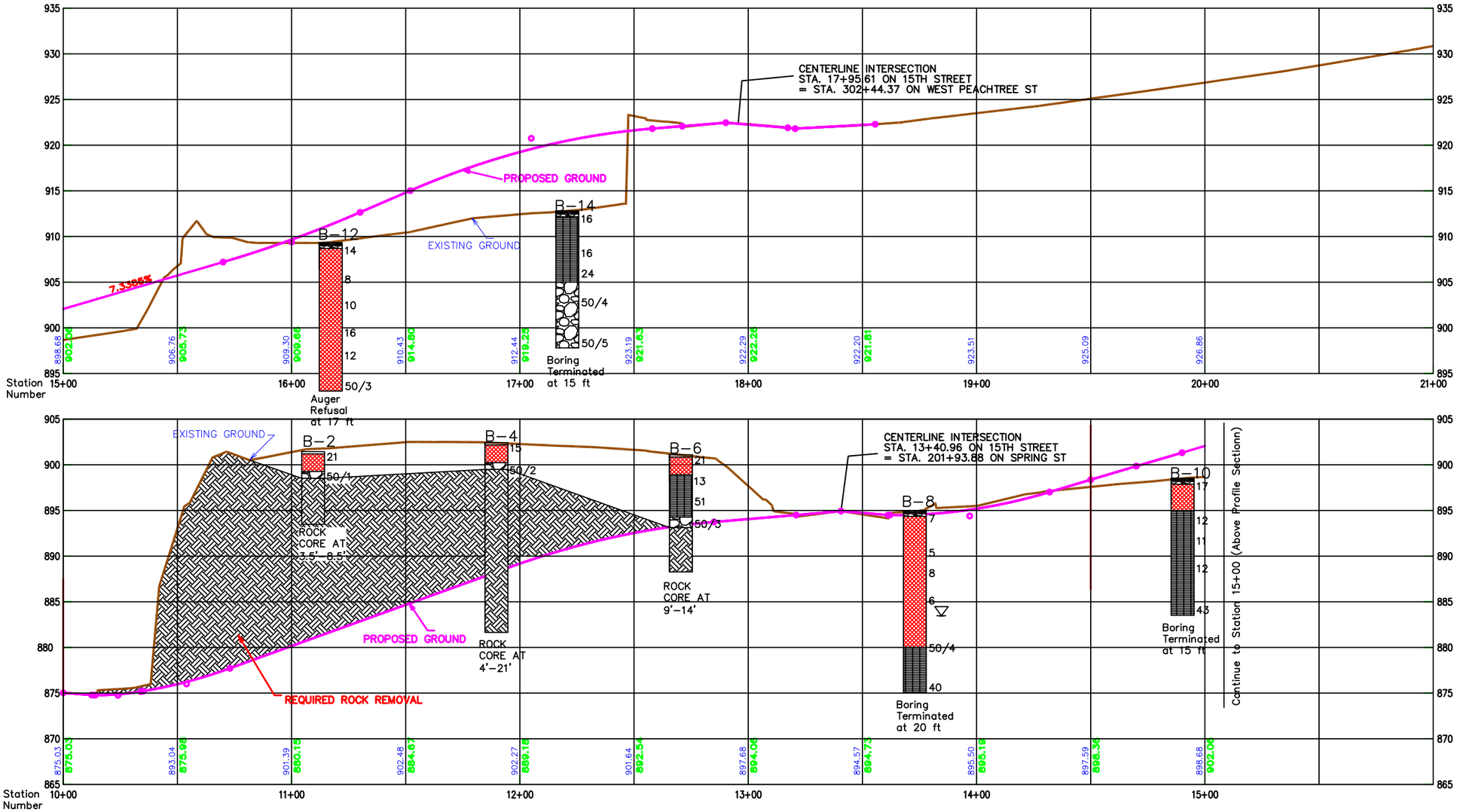
FIGURE 1-1 Site Location Plan	15th Street Extension Soil Survey Jacobs	GDOT P.I. No. 0015019	Not to Scale	Reference: Google Maps



*Boring #B-1 was not drilled

FIGURE 1-2 Boring Location Plan	15th Street Extension Soil Survey Jacobs, GDOT P.I. No. 0015019	Not to Scale	Reference: Jacobs	Legend: Approximate Location of Borings: B-# ●

BID ADDENDUM #1



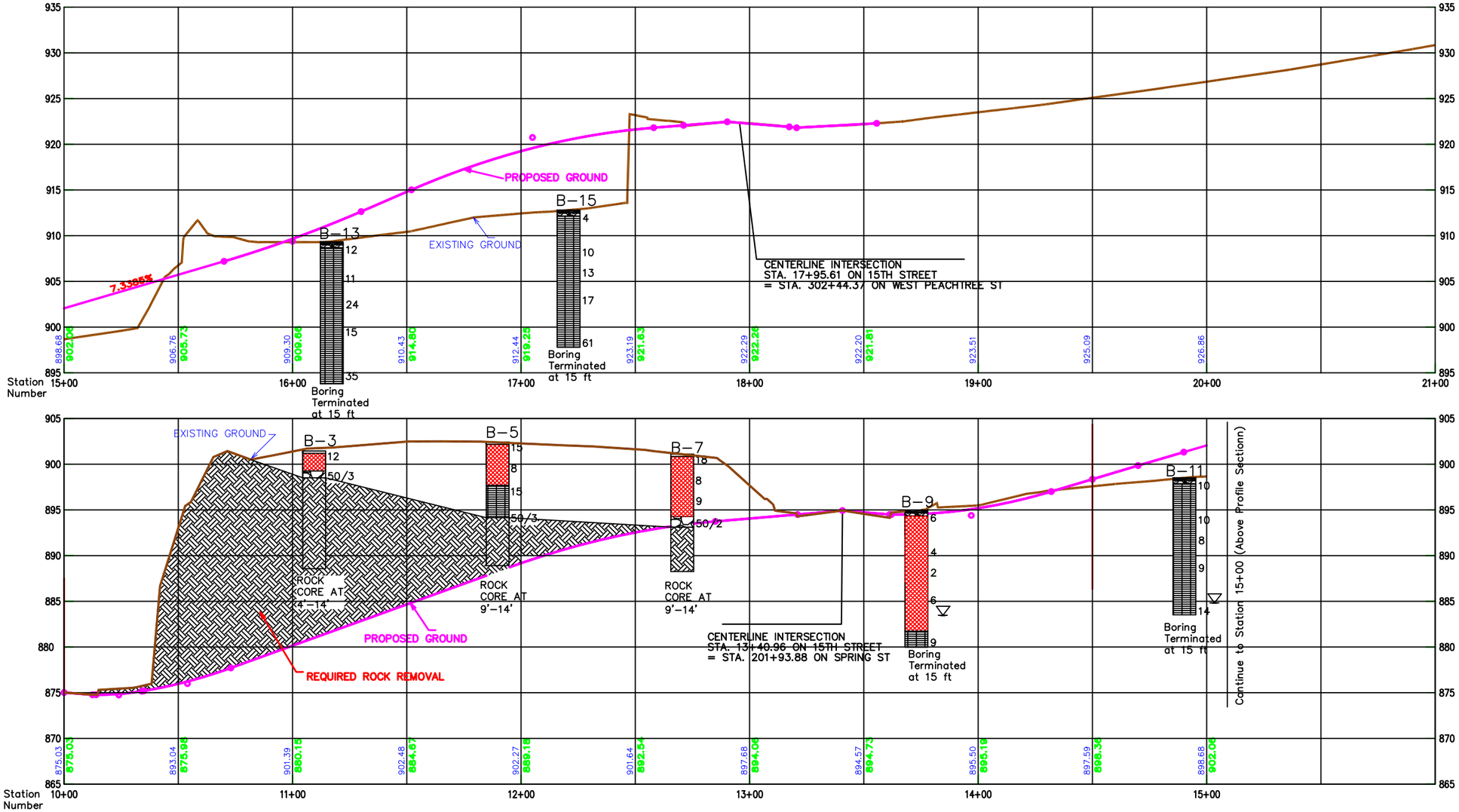
LEGEND

- FILL
- ROCK
- SM
- SC
- PWR
- Pavement
- ▽ Water Level at the time of boring

NTS

2MNEXT®	JACOBS	15TH. STREET EXTENSION ATLANTA, GA	PREPARED BY: AR	DATE: 5/29/2019
PROJECT NO. 19G3005		GEOTECHNICAL SUBSURFACE PROFILE – SECTION 1–1 PREPARED FOR: JACOBS, GDOT P.I. No. 0015019	CHECKED BY: RM	FIGURE 2–1

BID ADDENDUM #1

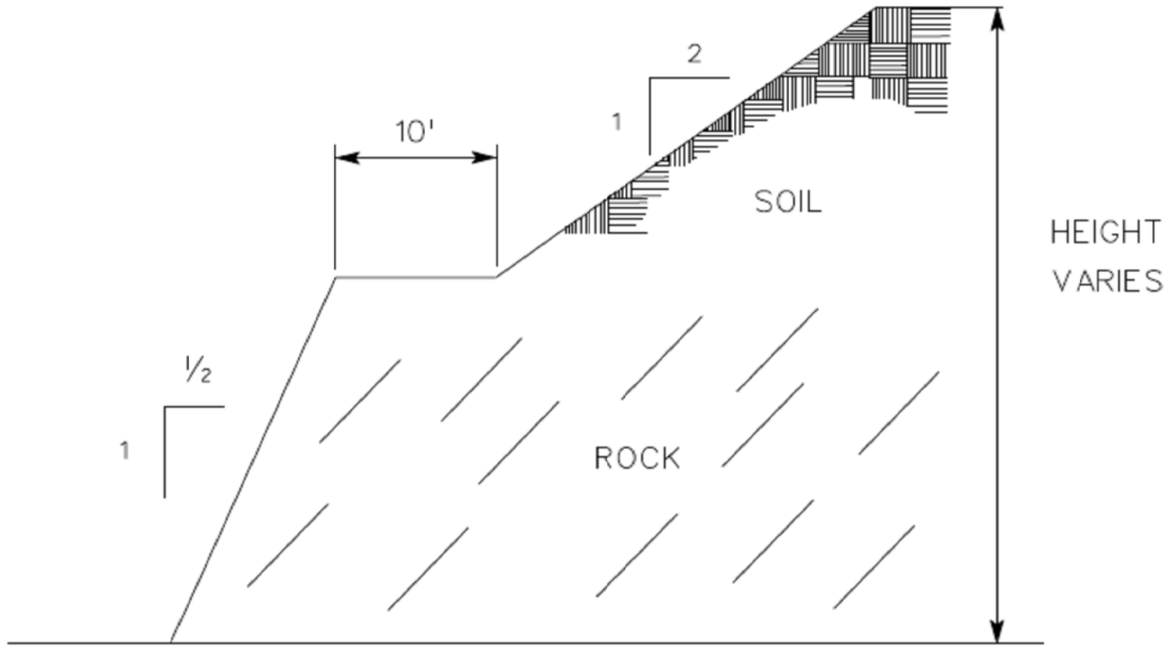


LEGEND

- FILL
- ROCK
- SM
- SC
- PWR
- Pavement
- ▽ Water Level at the time of boring

NTS

2MNEXT® PROJECT NO. 19G3005	JACOBS™	15TH. STREET EXTENSION ATLANTA, GA	PREPARED BY: AR
		GEOTECHNICAL SUBSURFACE PROFILE – SECTION 2–2 PREPARED FOR: JACOBS, GDOT P.I. No. 0015019	CHECKED BY: RM
			DATE: 5/29/2019
			FIGURE 2–2



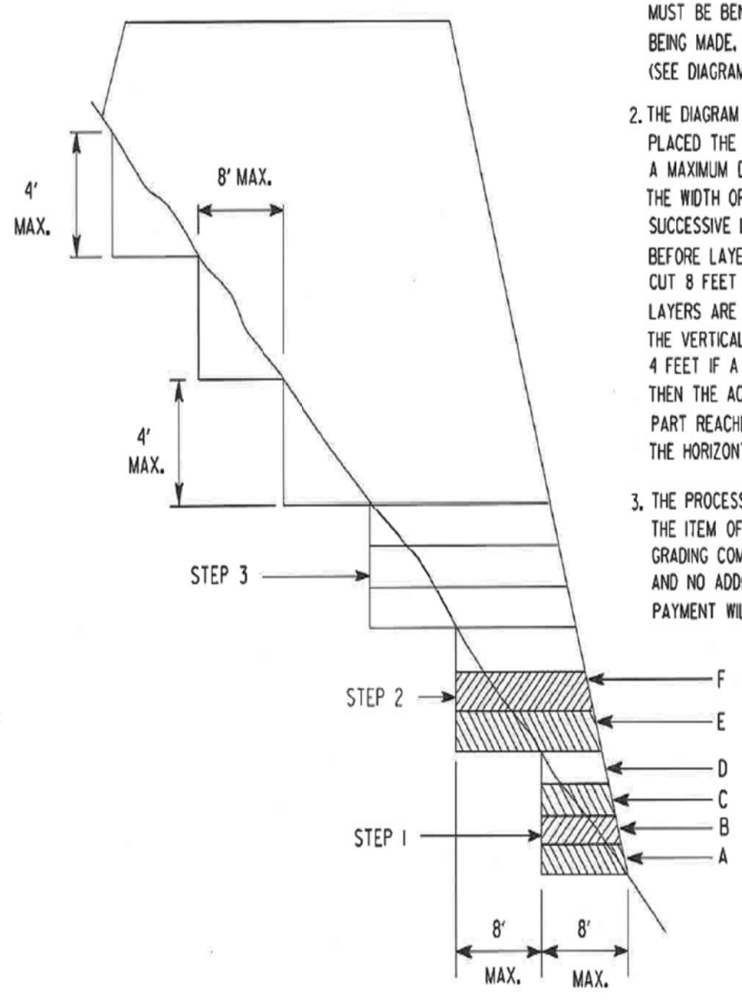
APPLIES TO STATION TO STATION	LOCATION	RANGE OF ROCK DEPTHS FROM EXISTING TOP OF GROUND ELEVATION.

DETAIL FOR ROCK CUT

NO SCALE

NTS

2MNEXT®	JACOBS™	15TH. STREET EXTENSION ATLANTA, GA	PREPARED BY: AR	DATE: 5/29/2019
PROJECT NO. 19G3005		GEOTECHNICAL SUBSURFACE PROFILE – DETAIL FOR ROCK CUT PREPARED FOR: JACOBS, , GDOT P.I. No. 0015019	CHECKED BY: RM	FIGURE 3



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 FEET (ABOUT ¾ THE WIDTH OF THE TYPICAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER 'E' IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.

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

NTS

2MNEXT®	JACOBS	15TH. STREET EXTENSION ATLANTA, GA	PREPARED BY: AR	DATE: 5/29/2019
PROJECT NO. 19G3005		GEOTECHNICAL SUBSURFACE PROFILE – BENCHING DETAIL PREPARED FOR: JACOBS, GDOT P.I. No. 0015019	CHECKED BY: RM	FIGURE 4

BID ADDENDUM #1

BORING NUMBER B-2

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/15/19 **COMPLETED** 5/16/19
GROUND ELEVATION 902 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING ---

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
	0		(SM) (FILL) SILTY SAND, reddish brown, moist, medium dense	SPT 1		3-8-13 (21)			
900			(SM) (PWR) PARTIALLY WEATHERED ROCK sampled as SILTY SAND, tan and white, moist, very dense	SPT 2		26-50/1"			>>
	5		REC = %100 RQD = %88.3	RC	100 (88)				
895									
890									
885									
880									

Refusal at 3.5 feet.

Boring Terminated at 8.5 feet.

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BID ADDENDUM #1

BORING NUMBER B-3

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/15/19 **COMPLETED** 5/16/19
GROUND ELEVATION 902 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING ---

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
	0		4" Topsoil						
900			(SM) (FILL) SILTY SAND, reddish brown, moist, medium dense	SPT 1		6-7-5 (12)			
			(SM) (PWR) PARTIALLY WEATHERED ROCK sampled as SILTY SAND, tan and white, moist, very dense	SPT 2		50/3"			>>
	5		REC = %83.3 RQD = %46.7	RC	83 (47)				
895									
	10		REC = %93.3 RQD = %63.3	RC	93 (63)				
890									

Refusal at 4 feet.

Boring Terminated at 14 feet.

885

880

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BID ADDENDUM #1

BORING NUMBER B-4

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/16/19 **COMPLETED** 5/17/19
GROUND ELEVATION 903 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING ---

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
	0		4" Topsoil						
			(SM) (FILL) SILTY SAND, reddish brown, moist, medium dense	SPT 1		11-9-6 (15)			
900			(SM) (PWR) PARTIALLY WEATHERED ROCK sampled as SILTY SAND, tan and white, moist, very dense	SPT 2		26-50/2"			>>
	5		REC = %93.3 RQD = %50.0	RC	93 (50)				
895									
	10		REC = %100 RQD = %73.3	RC	100 (73)				
890									
	15		REC = %100 RQD = %66.7	RC	100 (67)				
885									
	20								
880									

Refusal at 4 feet.

Boring Terminated at 21 feet.

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BID ADDENDUM #1

BORING NUMBER B-5

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/20/19 **COMPLETED** 5/20/19
GROUND ELEVATION 903 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING ---

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		4" Topsoil					
			(SM) (FILL) SILTY SAND, reddish brown, moist, loose to medium dense	SPT 1		10-7-8 (15)		
900				SPT 2		5-4-4 (8)		
	5		(SM) (RESIDUAL) SILTY SAND, tannish brown, moist, medium dense	SPT 3		4-5-10 (15)		
895				SPT 4		50/3"		
	10		REC = %100 RQD = %83.3	RC	100 (83)			
890								
885								
880								

Refusal at 9 feet.

Boring Terminated at 14 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

>>

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BID ADDENDUM #1

BORING NUMBER B-6

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/20/19 **COMPLETED** 5/20/19
GROUND ELEVATION 901 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING ---

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		4" Topsoil					
900			(SM) (FILL) SILTY SAND, reddish brown, moist, medium dense	SPT 1		5-9-12 (21)		
	5		(SM) (RESIDUAL) SILTY SAND, tannish brown, moist, medium dense to very dense	SPT 2		6-6-7 (13)		
895				SPT 3		22-28-23 (51)		
			(SM) (PWR) PARTIALLY WEATHERED ROCK sampled as SILTY SAND, tan and white, moist, very dense	SPT 4		50/3"		
	10		REC = %60 RQD = %20	RC	60 (20)			
890								
885								
880								

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

>>

Refusal at 9 feet.

Boring Terminated at 14 feet.

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BID ADDENDUM #1

BORING NUMBER B-7

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/21/19 **COMPLETED** 5/24/19
GROUND ELEVATION 901 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING ---

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80
	0		4" Topsoil						
900			(SM) (FILL) SILTY SAND, reddish brown, moist, loose to medium dense						
	5								
895									
			(SM) (PWR) PARTIALLY WEATHERED ROCK sampled as SILTY SAND, tan and white, moist, very dense						
	10		REC = %100 RQD = %90						
890									
885									
880									

Refusal at 9 feet.

Boring Terminated at 14 feet.

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BID ADDENDUM #1

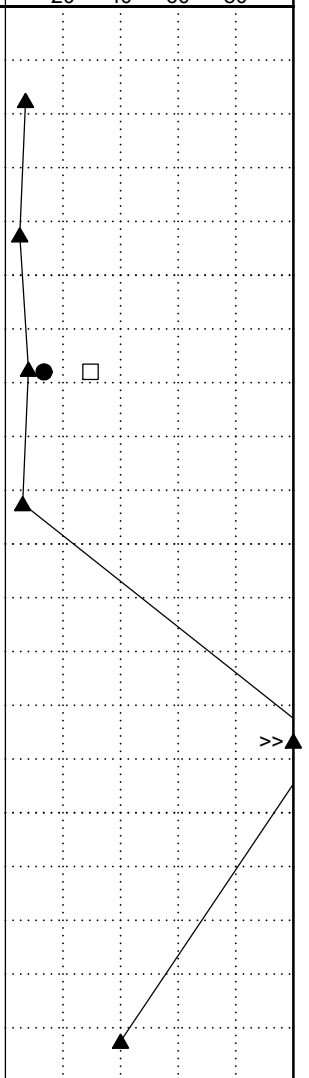
BORING NUMBER B-8

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/17/19 **COMPLETED** 5/17/19
GROUND ELEVATION 895 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
▽ **AT TIME OF DRILLING** 12. ft / Elev 883 ft
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 13 ft

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
895	0		3" Asphalt 8" GAB					
			(SM) (FILL) SILTY SAND, contains rock fragments, reddish brown, moist, loose	SPT 1		3-3-4 (7)		
				SPT 2		2-2-3 (5)		
890	5			SPT 3		3-3-5 (8)		
				SPT 4		3-3-3 (6)		
885	10		▽ (SM) (POSSIBLE FILL) Rock Fragments	SPT 5		50/4"		
880	15		(SM) (Residual) SILTY SAND, tannish brown, moist to wet, dense					
				SPT 6		14-21-19 (40)		
875	20		Boring Terminated at 20 feet.					
870								

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80



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BID ADDENDUM #1

BORING NUMBER B-9

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/17/19 **COMPLETED** 5/17/19
GROUND ELEVATION 895 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
▽ **AT TIME OF DRILLING** 12 ft / Elev 883 ft
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 13 ft

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
895	0		3" Asphalt 8" GAB					
			(SM) (FILL) SILTY SAND, contains rock fragments, reddish brown, moist, very loose to loose	SPT 1		4-3-3 (6)		
				SPT 2		2-2-2 (4)		
890	5			SPT 3		2-1-1 (2)		
				SPT 4		1-3-3 (6)		
885	10		▽ (SM) (Residual) SILTY SAND, tannish brown, moist to wet, loose					
				SPT 5		4-4-5 (9)		
880	15		Boring Terminated at 15 feet.					
875								
870								

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

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BID ADDENDUM #1

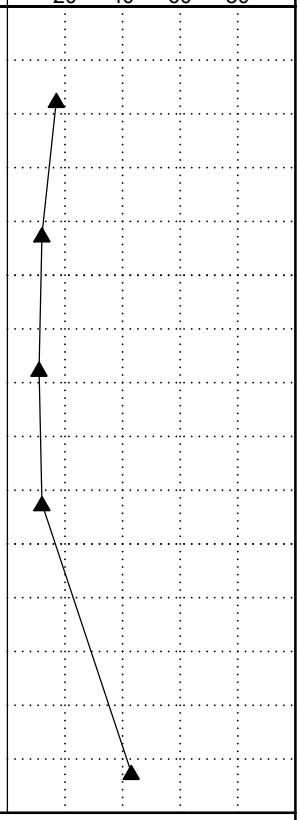
BORING NUMBER B-10

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/17/19 **COMPLETED** 5/17/19
GROUND ELEVATION 898 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 12 ft

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		6" Asphalt 8" GAB					
			(SM) (FILL) SILTY SAND, reddish brown, moist, medium dense	SPT 1		13-7-10 (17)		
895			(SM) (Residual) SILTY SAND, tannish brown, moist, medium dense to dense	SPT 2		4-5-7 (12)		
	5			SPT 3		7-6-5 (11)		
890				SPT 4		5-6-6 (12)		
	10							
885				SPT 5		17-22-21 (43)		
	15		Boring Terminated at 15 feet.					
880								
875								

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80



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BID ADDENDUM #1

BORING NUMBER B-11

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/17/19 **COMPLETED** 5/17/19
GROUND ELEVATION 898 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
▽ **AT TIME OF DRILLING** 14 ft / Elev 884 ft
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 12 ft

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		2" Asphalt 8" GAB					
895			(SM) (Residual) SILTY SAND, tannish brown, moist to wet, loose to medium dense	SPT 1		6-4-6 (10)		
	5			SPT 2		5-5-5 (10)		
				SPT 3		5-4-4 (8)		
890				SPT 4		5-5-4 (9)		
	10							
885			▽	SPT 5		7-7-7 (14)		
	15		Boring Terminated at 15 feet.					
880								
875								

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

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BID ADDENDUM #1

BORING NUMBER B-12

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/20/19 **COMPLETED** 5/20/19
GROUND ELEVATION 909 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 14 feet.

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		6" Asphalt 8" GAB					
			(SM) (FILL) SILTY SAND, contains rock fragments, reddish brown, moist, loose to very dense	SPT 1		7-7-7 (14)		
905	5			SPT 2		4-4-4 (8)		
				SPT 3		5-5-5 (10)		
900	10			SPT 4		10-9-7 (16)		
895	15			SPT 5		7-6-6 (12)		
				SPT 6		50/3"		
890			Refusal at 17 feet.					
885								

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

>>

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 6/7/19 11:01 - C:\USERS\ARAZAVI\DOCUMENTS\15TH STREET\15TH STREET.GPJ

BID ADDENDUM #1

BORING NUMBER B-13

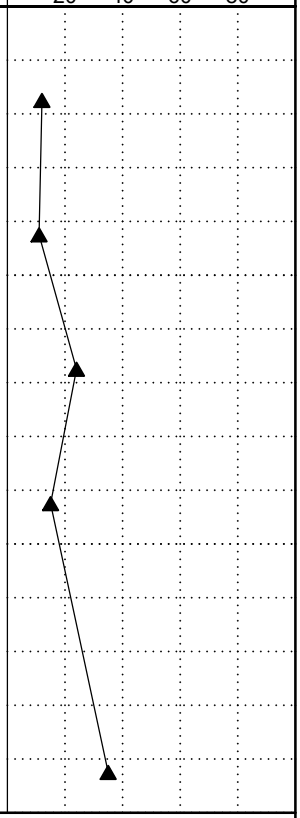
2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/20/19 **COMPLETED** 5/20/19
GROUND ELEVATION 909 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 13 ft

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		2" Asphalt 4" GAB (SM) (Residual) SILTY SAND, tannish brown, moist to wet, medium dense to dense	SPT 1		4-6-6 (12)		
905	5			SPT 2		5-5-6 (11)		
				SPT 3		8-12-12 (24)		
900	10			SPT 4		5-6-9 (15)		
895	15			SPT 5		13-17-18 (35)		
890								
885								

Boring Terminated at 15 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80



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BID ADDENDUM #1

BORING NUMBER B-14

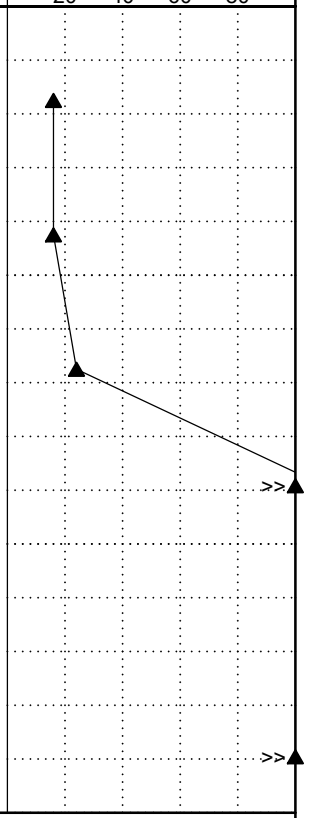
2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/20/19 **COMPLETED** 5/20/19
GROUND ELEVATION 913 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 14 ft

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		2" Asphalt 4" GAB					
910			(SM) (Residual) SILTY SAND, tannish brown, moist, medum dense	SPT 1		8-8-8 (16)		
	5			SPT 2		5-7-9 (16)		
				SPT 3		10-12-12 (24)		
905			(SM) (PWR) PARTIALLY WEATHERED ROCK Sampled as SILTY SAND, tan and white, very dense	SPT 4		41-50/4"		
	10							
900				SPT 5		24-50/5"		
	15							
895								
890								

Boring Terminated at 15 feet.

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80



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BID ADDENDUM #1

BORING NUMBER B-15

2MNEXT®

CLIENT Jacobs
PROJECT NAME 15th Street Extension Soil Survey
PROJECT NUMBER GDOT P.I. No. 0015019
PROJECT LOCATION Atlanta, GA
DATE STARTED 5/20/19 **COMPLETED** 5/20/19
GROUND ELEVATION 913 ft **HOLE SIZE** 6 inches
DRILLING CONTRACTOR Betts Environmental
GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger (Auto Hammer)
AT TIME OF DRILLING ---
LOGGED BY AR **CHECKED BY** RM
AT END OF DRILLING ---
NOTES All Elevations are Approximate
AFTER DRILLING --- Caved in at 14 ft

ELEV. (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
	0		2" Asphalt 4" GAB (SM) (Residual) SILTY SAND, tannish brown, moist, loose to dense	SPT 1		2-2-2 (4)		
910								
	5			SPT 2		4-5-5 (10)		
				SPT 3		6-6-7 (13)		
905								
				SPT 4		6-6-11 (17)		
	10							
900								
	15			SPT 5		17-37-24 (61)		
			Boring Terminated at 15 feet.					
895								
890								

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 6/7/19 11:01 - C:\USERS\ARAZAVI\DOCUMENTS\15TH STREET\15TH STREET.GPJ

BID ADDENDUM #1

Rock Core Photo Log Boring B-2 (3.5'-8.5')	Project Name: 15th St. Extension	GDOT P.I. No. 0015019

Rock Core Photo Log Boring B-3 (4'-14')	Project Name: 15th St. Extension	GDOT P.I. No. 0015019

B-3 4' – 9' REC = %83.3 RQD = %46.7	B-3 9' – 14' REC = %93.3 RQD = %63.3

BID ADDENDUM #1

Rock Core Photo Log Boring B-4 (4’-14’)	Project Name: 15th St. Extension	GDOT P.I. No. 0015019

B-4 4’ – 9’ REC = %96.7 RQD = %58.3	B-4 9’ – 14’ REC = %100 RQD = %63.3

BID ADDENDUM #1

Rock Core Photo Log Boring B-4 (14'-21')	Project Name: 15th St. Extension	GDOT P.I. No. 0015019

B-4
14' – 21'
REC = %100
RQD = %66.7

BID ADDENDUM #1

2MNEXT®

Rock Core Photo Log Boring B-5 (9'-14')	Project Name: 15th St. Extension	GDOT P.I. No. 0015019

B-5
9' – 14'
REC = %100
RQD = %83.3

BID ADDENDUM #1

Rock Core Photo Log Boring B-6 (9'-14')	Project Name: 15th St. Extension	GDOT P.I. No. 0015019

B-6
9' – 14'
REC = %60
RQD = %20

BID ADDENDUM #1

2MNEXT®

Rock Core Photo Log Boring B-7 (9'-14')	Project Name: 15th St. Extension	GDOT P.I. No. 0015019

B-7
9' – 14'
REC = %100
RQD = %90

BID ADDENDUM #1

Project Name: 15th St. Extension Project
Number: GDOT P.I. No. 0015019

Sampled by: AR
Tested by: EH
Reviewed by: RM

Georgia Department of Transportation (GDOT)

Lab No.	1962		1963		1964		1965		1966		1967
Sample No.	1		1		3		2		2		1
Station	12+70		11+90		13+70		14+90		16+20		17+20
Location	30' RTCL Boring B-7		25' RTCL/ 25'LTCL B-4/B-5		20' LTCL B-8		35' RTCL B-11		20' LTCL B-12		35' RTCL B-15
2 1/2" Sieve	100		100								
1 1/2" Sieve	100		100								
#10 Sieve	66.1		80.6								
#40 Sieve	51.6		63.8								
#60 Sieve	44.5		53.4								
#200 Sieve	28		30.4		29.6		25.5		26.6		26
%Clay	9.8		10.6								
T Vol Change	6.83		1.41								
%Swell	2.18		0.3								
%Shrinkage	6.56		1.43								
Max. Dry Den.	113.9		123.3								
%Opt. Moist.	13.8		10.3								
Liquid Lmt.	NV		NV								
Plast. Index	NP		NP								
Class	IA2		IA2		IA2		IA2		IA2		IA2
USCS	SM		SM		SM		SM		SM		SM
Date Sampled	5/21/2019		5/17/2019		5/17/2019		5/17/2019		5/20/2019		5/20/2019
Date Completed	6/6/2019		6/6/2019		5/30/2019		5/30/2019		5/30/2019		5/30/2019
Date Received	6/6/2019		6/6/2019		6/6/2019		6/6/2019		6/6/2019		6/6/2019

BID ADDENDUM #1

DOT Volume Change

GDT 6

Project No.	19G3005	**Tested By**	EH
Project Name	15th Street Extension	**Test Date**	6/5/2019
Boring No.	B-7	**Reviewed By**	RM
Sample No.	Bulk Sample	**Review Date**	6/7/2019
Sample Depth	0-9 feet	**Lab No.**	1962
Sample Description	Reddish Brown Silty Sand-SM		

	Swell	Shrink
(1) Weight of Mold (g)	481.53	481.53
Mold number	#1	#1

(2) Mold Volume (ft^3):	(Swell)	0.0073	(Shrink)	0.0073
Mold Diameter (in):	(Swell)	3.996	(Shrink)	3.996
Mold Height (in):	(Swell)	1.009	(Shrink)	1.009

Swell or Shrink	3 Wt. of Soil and Mold (g)	4 Weight of Soil (g) [3 - 1]	5 Wet Density (pcf) [4 / 2]	Pan Number	6 Weigh of Pan (grams)	7 Wt. of Wet Soil & Pan (grams)	8 Wt. of Dry Soil & Pan (grams)	9 Wt. of Soil, (grams) [8 - 6]	10 Wt. of Water (grams) [7 - 8]	11 Moisture Content, % [10 / 9]	12 Dry Density (pcf) 5 / [(1) + 11]
Swell	909.9	428.4	129.0	AN	8.2	113.4	101.3	93.1	12.0	12.9	114.2
Shrink	911.7	430.2	129.5								114.7

Swell

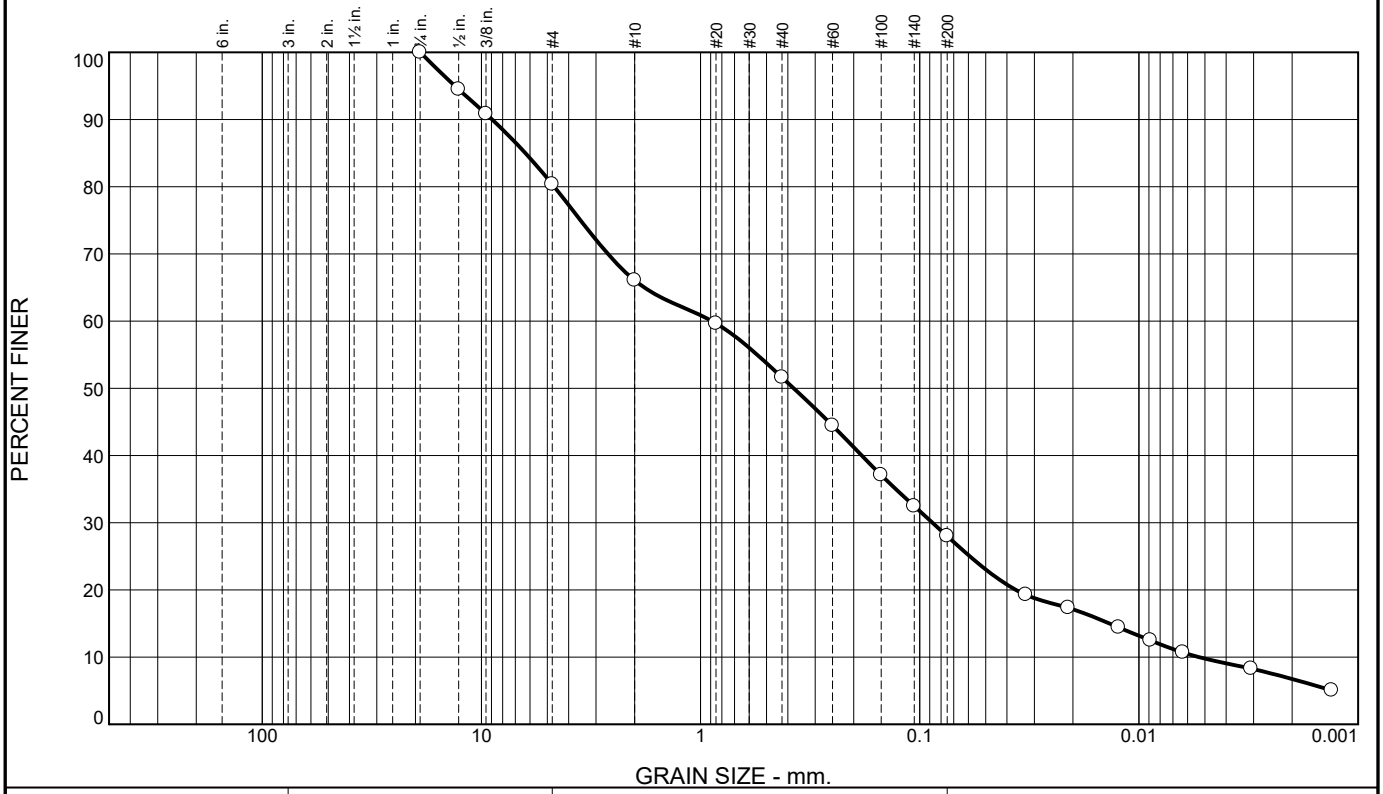
Initial Dial Reading:	1.034
After Soak Dial Reading:	1.056
Swell (%):	**2.18**

Shrink

Initial Dial Reading (ht):	1.074	Tare ID:	N/A
After Drying Dial Reading (ht):	1.017		
After Drying Dial Reading (d):	3.979		
	3.976		
	3.978		
	3.974		
Average:	3.977		
Original Volume (in^3):	12.65		
Final Volume (in^3):	11.82		
Shrinkage (%):	**6.56**		

Total Volume Change (%):	**8.74**
Plus #10 Sieve Correction Factor:	**0.7822**
Corrected Total Volume Change (%):	**6.83**

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	19.6	14.3	14.5	23.6	18.2	9.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	94.5		
3/8"	90.8		
#4	80.4		
#10	66.1		
#20	59.7		
#40	51.6		
#60	44.5		
#100	37.1		
#140	32.5		
#200	28.0		
0.0328 mm.	19.3		
0.0210 mm.	17.3		
0.0124 mm.	14.4		
0.0089 mm.	12.5		
0.0063 mm.	10.7		
0.0031 mm.	8.3		
0.0013 mm.	5.1		

* (no specification provided)

Soil Description

Brown Silty Sand-SM

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 8.9396 D_{85}= 6.3062 D_{60}= 0.8868
D_{50}= 0.3760 D_{30}= 0.0876 D_{15}= 0.0136
D_{10}= 0.0053 C_u= 166.86 C_c= 1.63

Classification

USCS= SM AASHTO=

Remarks

Sample Date: 5/28/2019
Sampled By: Ali Test Dated: 06/06/2019

Location: B-7
Sample Number: 1962

Date: 06/07/2019

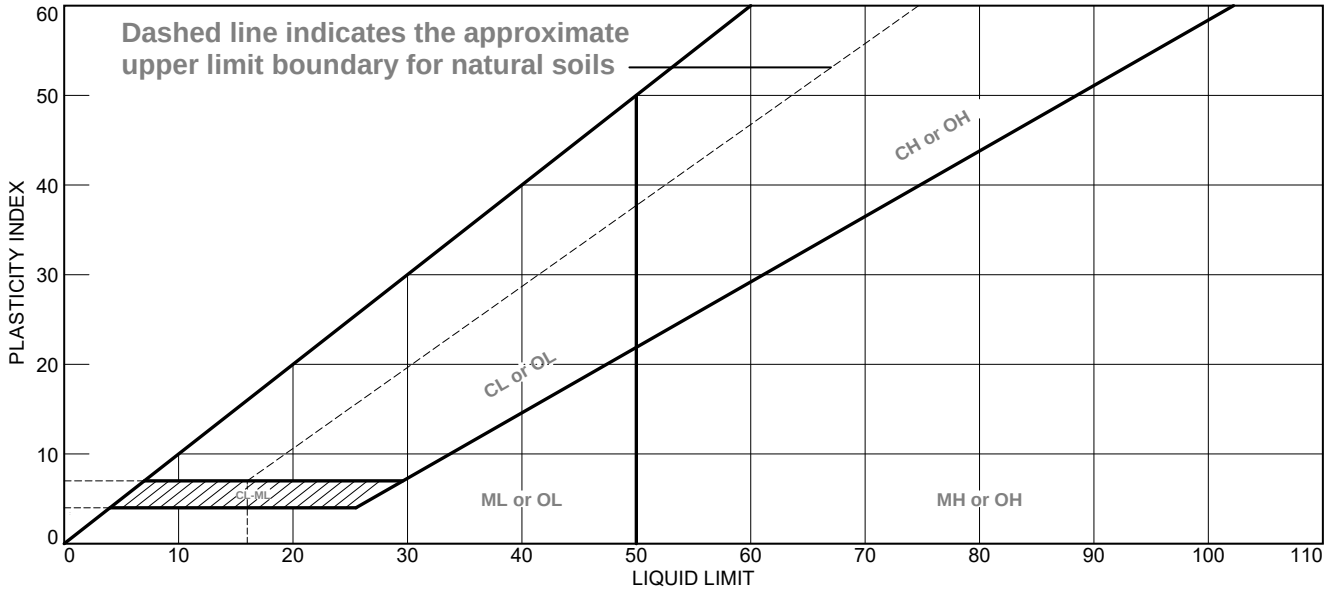
2MNEXT®

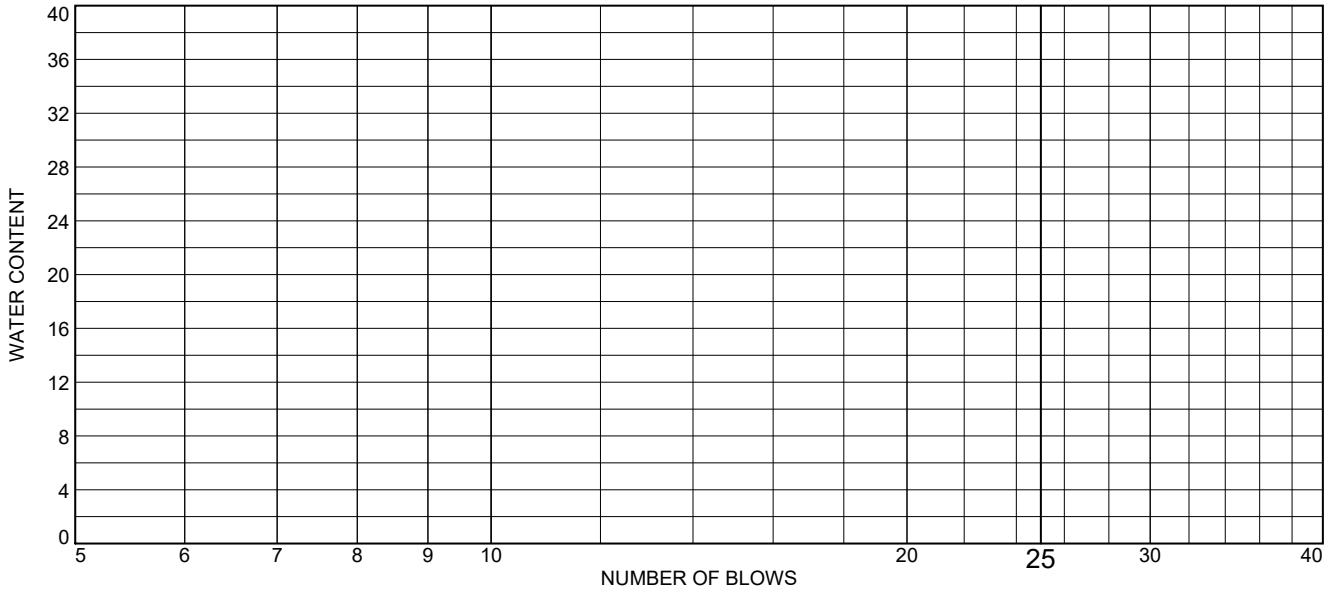
Client: Jacobs Engineering
Project: 15th Street Extension

Project No: 19G3005 **Figure**

Tested By: EH **Checked By:** RM

LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Brown Silty Sand-SM	NV	NP	NP			SM

Project No. 19G3005 **Client:** Jacobs Engineering

Project: 15th Street Extension

Location: B-7 **Sample Number:** 1962

Remarks:

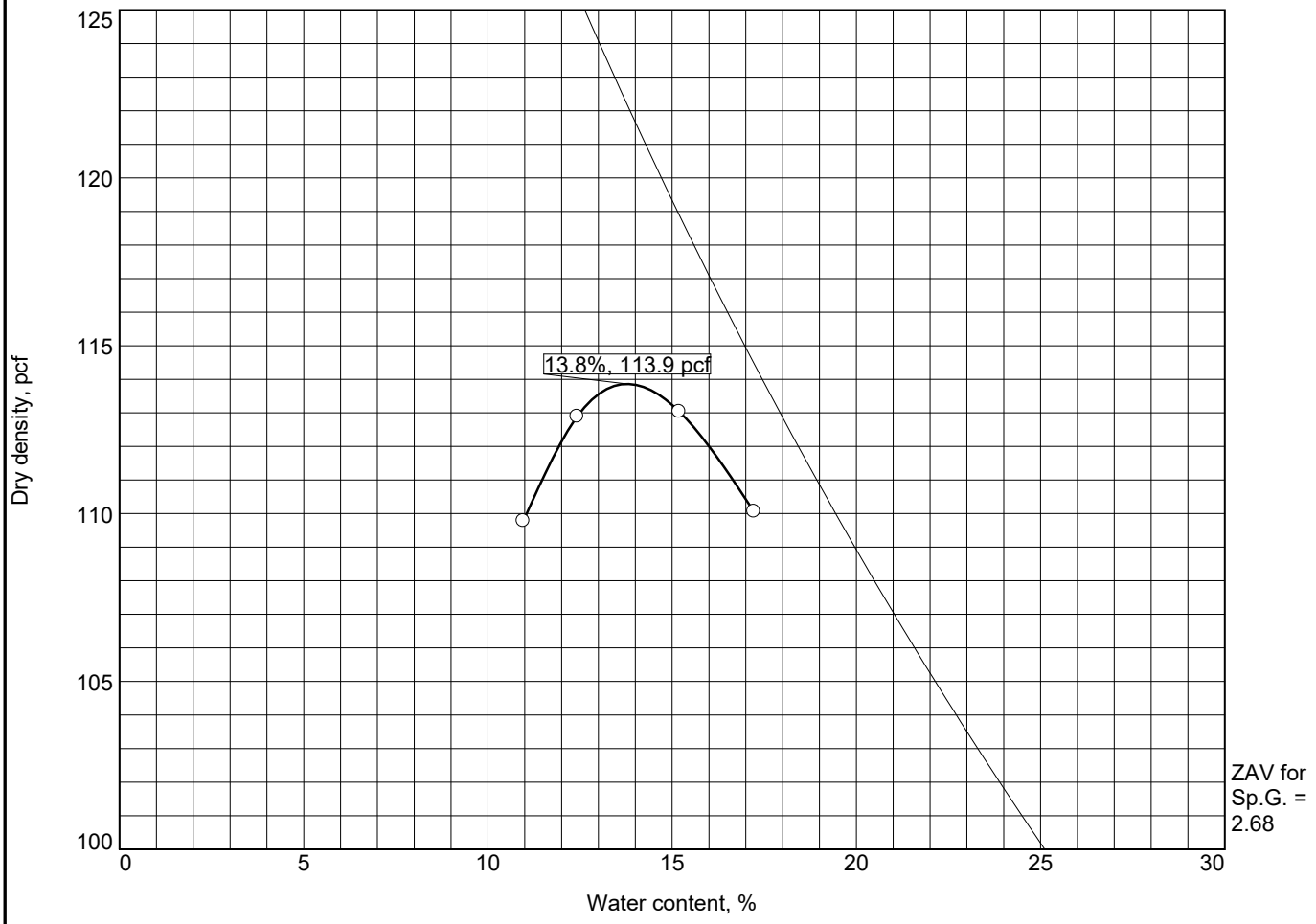
●Sample Date: 05/24/2019
Sampled By: Ali
Test Date: 06/03/2019

2MNEXT®

Figure

Tested By: EH **Checked By:** RM

COMPACTION TEST REPORT



Test specification: ASTM D 698-00a Method A Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
	SM				NV	NP		

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 113.9 pcf Optimum moisture = 13.8 %	Brown Silty Sand-SM

Project No. 19G3005 **Client:** Jacobs Engineering

Project: 15th Street Extension

○**Location:** B-7 **Sample Number:** 1962

2MNEXT®

Remarks:

Sample Date:05/24/2019
Sampled By: Ali
Test Date: 05/31/2019, GDT-7 MDD=119.9@ OM=10.9% (Test Performed on -10 Material), 25% Retained on #10 Sieve

Figure

Tested By: EH **Checked By:** RM

DOT Volume Change

GDT 6

Project No.	19G3005	**Tested By**	EH
Project Name	15th Street Extension	**Test Date**	6/5/2019
Boring No.	B-4 /B-5	**Reviewed By**	RM
Sample No.	Bag Sample	**Review Date**	6/7/2019
Sample Depth	0-6 feet	**Lab No.**	1963
Sample Description	Grayish Brown Silty Sand-SM		

	Swell	Shrink
(1) Weight of Mold (g)	482.60	482.60
Mold number	#2	#2

(2) Mold Volume (ft^3):	(Swell)	0.0073	(Shrink)	0.0073
Mold Diameter (in):	(Swell)	3.996	(Shrink)	3.996
Mold Height (in):	(Swell)	1.012	(Shrink)	1.012

Swell or Shrink	3 Wt. of Soil and Mold (g)	4 Weight of Soil (g) [3 - 1]	5 Wet Density (pcf) [4 / 2]	Pan Number	6 Weigh of Pan (grams)	7 Wt. of Wet Soil & Pan (grams)	8 Wt. of Dry Soil & Pan (grams)	9 Wt. of Soil, (grams) [8 - 6]	10 Wt. of Water (grams) [7 - 8]	11 Moisture Content, % [10 / 9]	12 Dry Density (pcf) 5 / [(1) + 11]
Swell	924.1	441.5	132.5	AF	8.2	162.2	148.9	140.7	13.3	9.4	121.1
Shrink	927.3	444.7	133.5								122.0

Swell

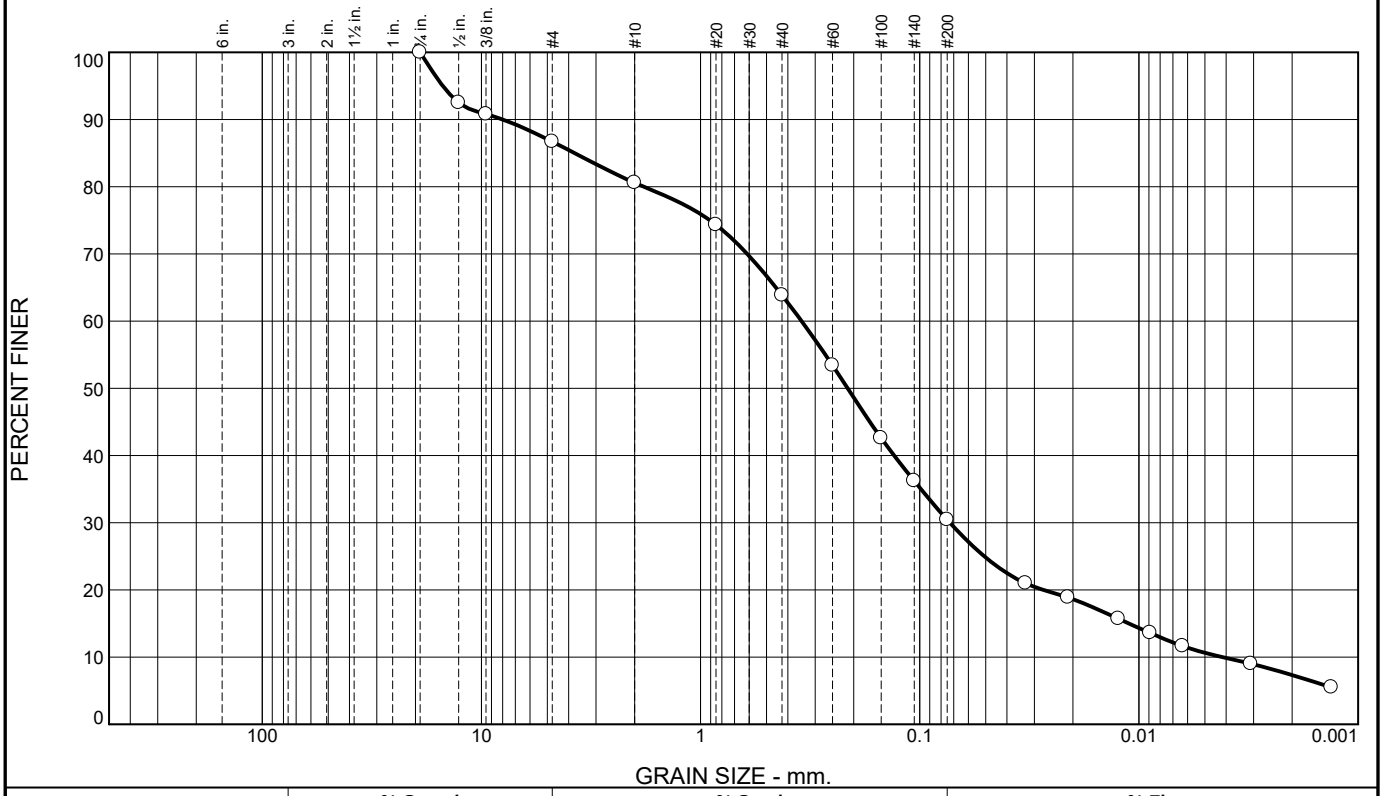
Initial Dial Reading:	1.041
After Soak Dial Reading:	1.044
Swell (%):	**0.30**

Shrink

Initial Dial Reading (ht):	1.009	Tare ID:	N/A
After Drying Dial Reading (ht):	0.997		
After Drying Dial Reading (d):	3.995		
	3.990		
	3.990		
	3.989		
Average:	3.991		
Original Volume (in^3):	12.69		
Final Volume (in^3):	12.51		
Shrinkage (%):	**1.43**		

Total Volume Change (%):	**1.73**
Plus #10 Sieve Correction Factor:	**0.816**
Corrected Total Volume Change (%):	**1.41**

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	13.3	6.1	16.8	33.4	19.8	10.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	92.5		
3/8"	90.8		
#4	86.7		
#10	80.6		
#20	74.3		
#40	63.8		
#60	53.4		
#100	42.6		
#140	36.2		
#200	30.4		
0.0329 mm.	21.0		
0.0211 mm.	18.9		
0.0124 mm.	15.7		
0.0089 mm.	13.6		
0.0063 mm.	11.6		
0.0031 mm.	9.0		
0.0013 mm.	5.5		

* (no specification provided)

Soil Description

Brown Silty Sand-SM

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 8.0014 D_{85}= 3.7606 D_{60}= 0.3462
D_{50}= 0.2132 D_{30}= 0.0729 D_{15}= 0.0111
D_{10}= 0.0042 C_u= 83.28 C_c= 3.69

Classification

USCS= SM AASHTO=

Remarks

Sample Date: 5/28/2019
Sampled By: Ali
Test Date: 06/06/2019

Location: B4/B5
Sample Number: 1963

Date: 06/07/2019

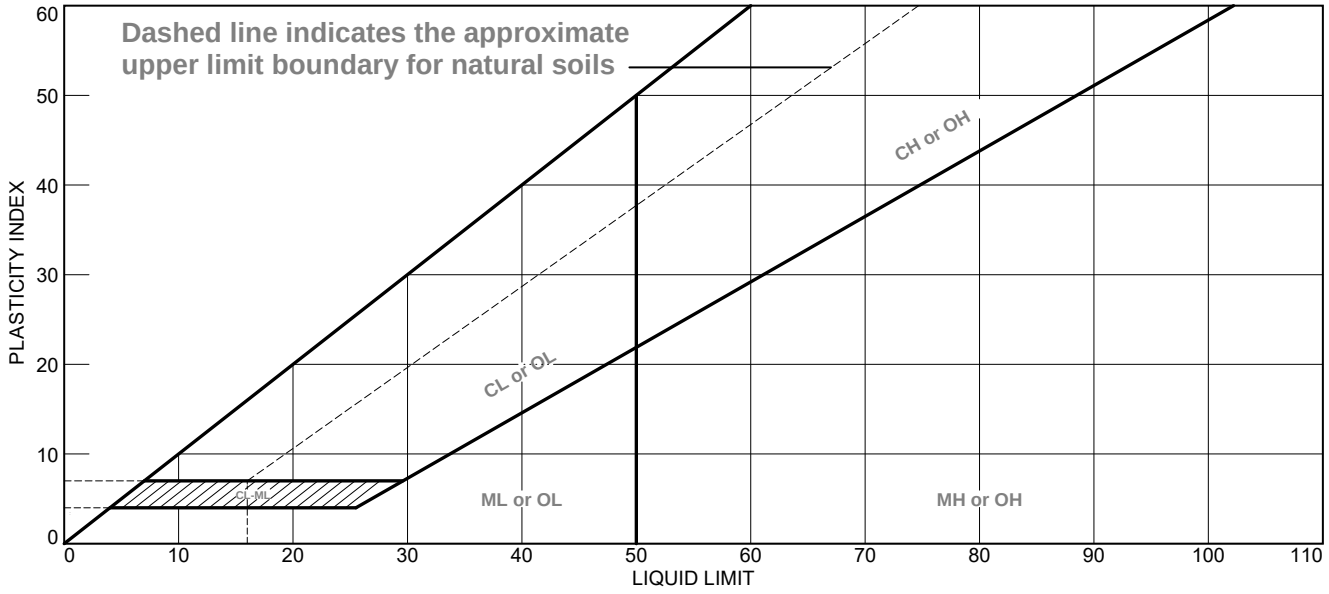
2MNEXT®

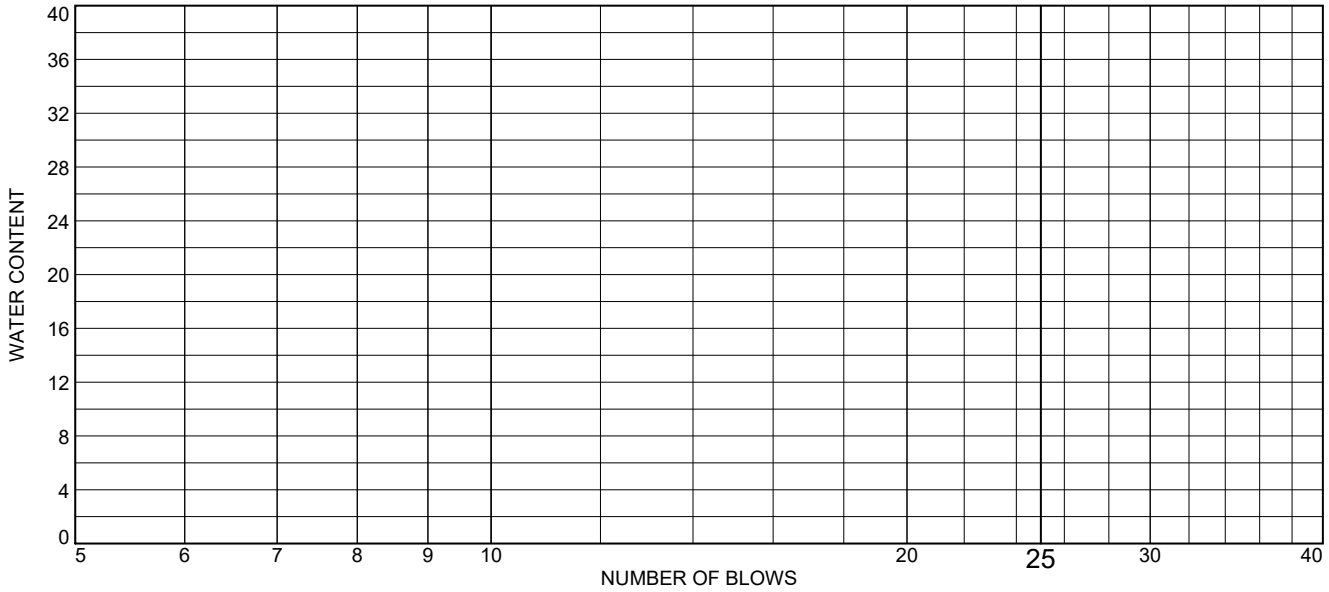
Client: Jacobs Engineering
Project: 15th Street Extension

Project No: 19G3005 **Figure**

Tested By: EH **Checked By:** RM

LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Brown Silty Sand-SM	NV	NP	NP			SM

Project No. 19G3005 **Client:** Jacobs Engineering

Project: 15th Street Extension

Location: B4/B5 **Sample Number:** 1963

Remarks:

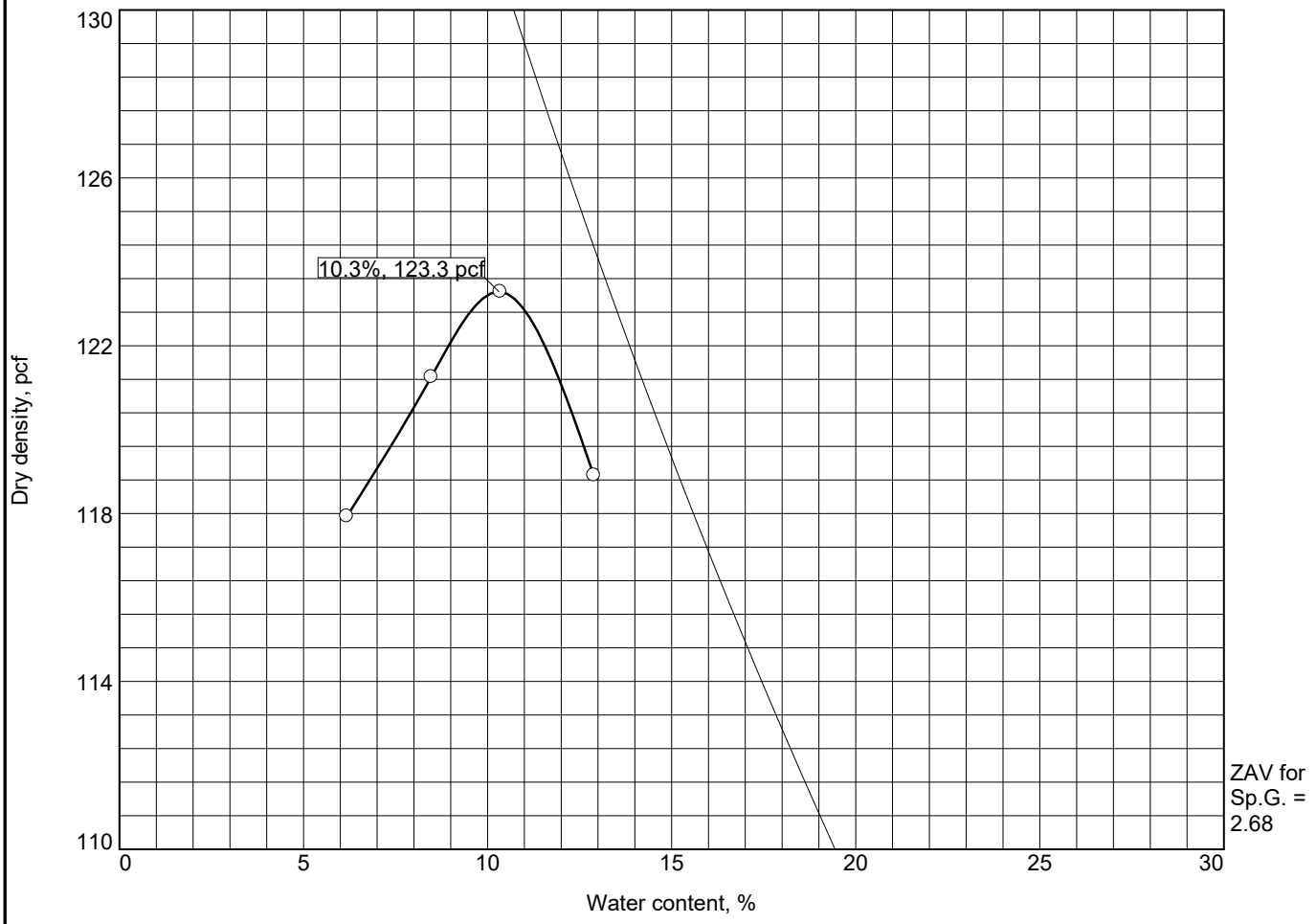
●Sample Date: 5/24/2019
Sampled By: Ali
Test Date: 06/03/2019

2MNEXT®

Figure

Tested By: EH **Checked By:** RM

COMPACTION TEST REPORT



Test specification: ASTM D 698-00a Method A Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
	SM		N/A		NV	NP		

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 123.3 pcf Optimum moisture = 10.3 %	Brown Silty Sand-SM

Project No. 19G3005 **Client:** Jacobs Engineering
Project: 15th Street Extension
○**Location:** B4/B5 **Sample Number:** 1963

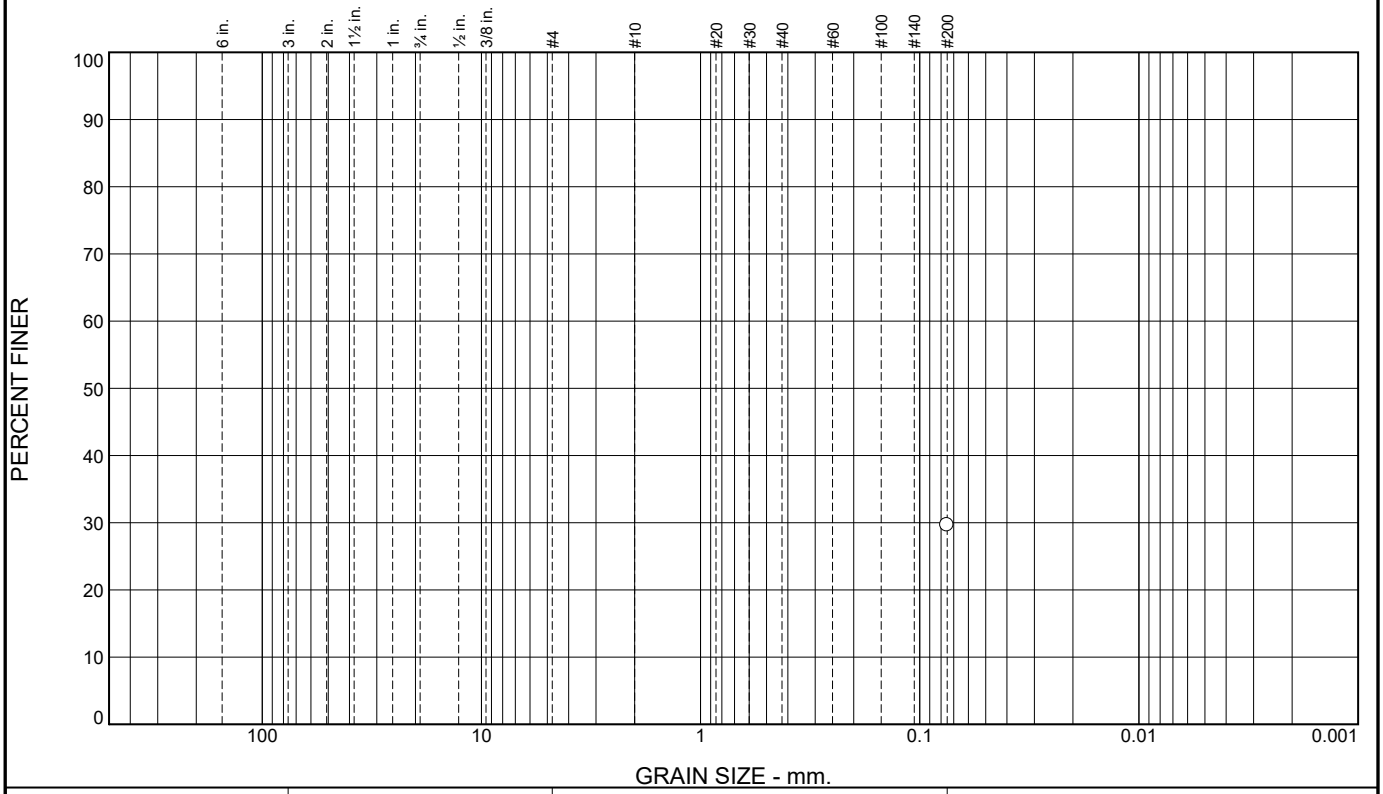
2MNEXT®

Remarks:
Date Sample: 5/24/2019
Sampled By: Ali
Test Date: 5/31/2019, GDT-7 MDD= 126.4 @ OM =8.1% (Test Performed on -10 Material), 20% Retained on #10 Sieve

Figure

Tested By: EH **Checked By:** RM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						29.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	29.6		

* (no specification provided)

Soil Description

Dark Graish Brown Silty Sand-SM

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= D_{85}= D_{60}=
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Date Sample: 5/28/2019
Sampled By: Ali
Date Tested 5/30/2019, NM=13.4%

Location: B-8
Sample Number: 1964 **Depth:** 6.0-7.5' **Date:** 06/06/2019

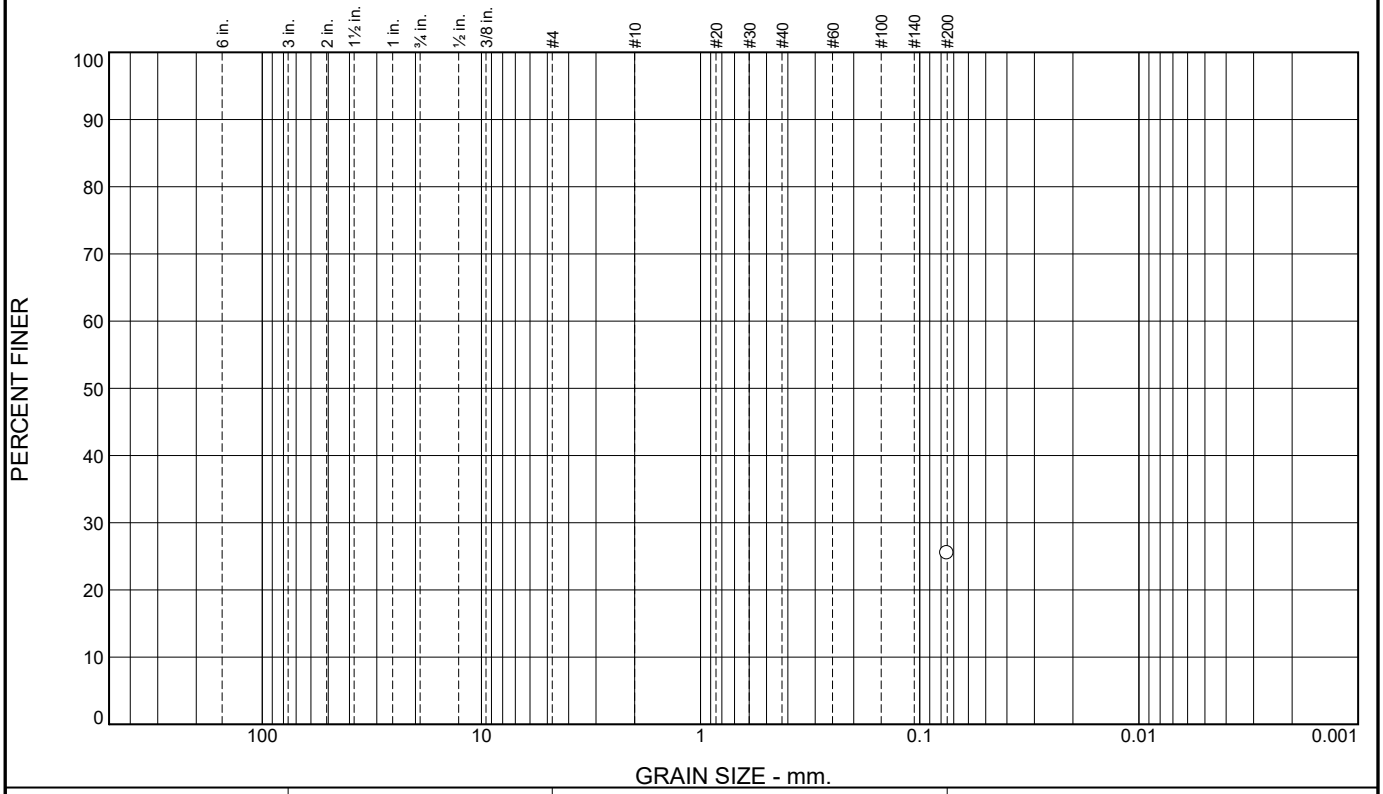
2MNEXT®

Client: Jacobs Engineering
Project: 15th Street Extension

Project No: 19G3005 **Figure**

Tested By: EH **Checked By:** RM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						25.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	25.5		

* (no specification provided)

Soil Description

Light Gray Silty Sand-SM

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= D_{85}= D_{60}=
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Date Sample: 5/28/2019
Sampled By: Ali
Date Tested: 5/30/2019, NM=11.8%

Location: B-11
Sample Number: 1965 **Depth:** 3.5-5.0' **Date:** 06/06/2019

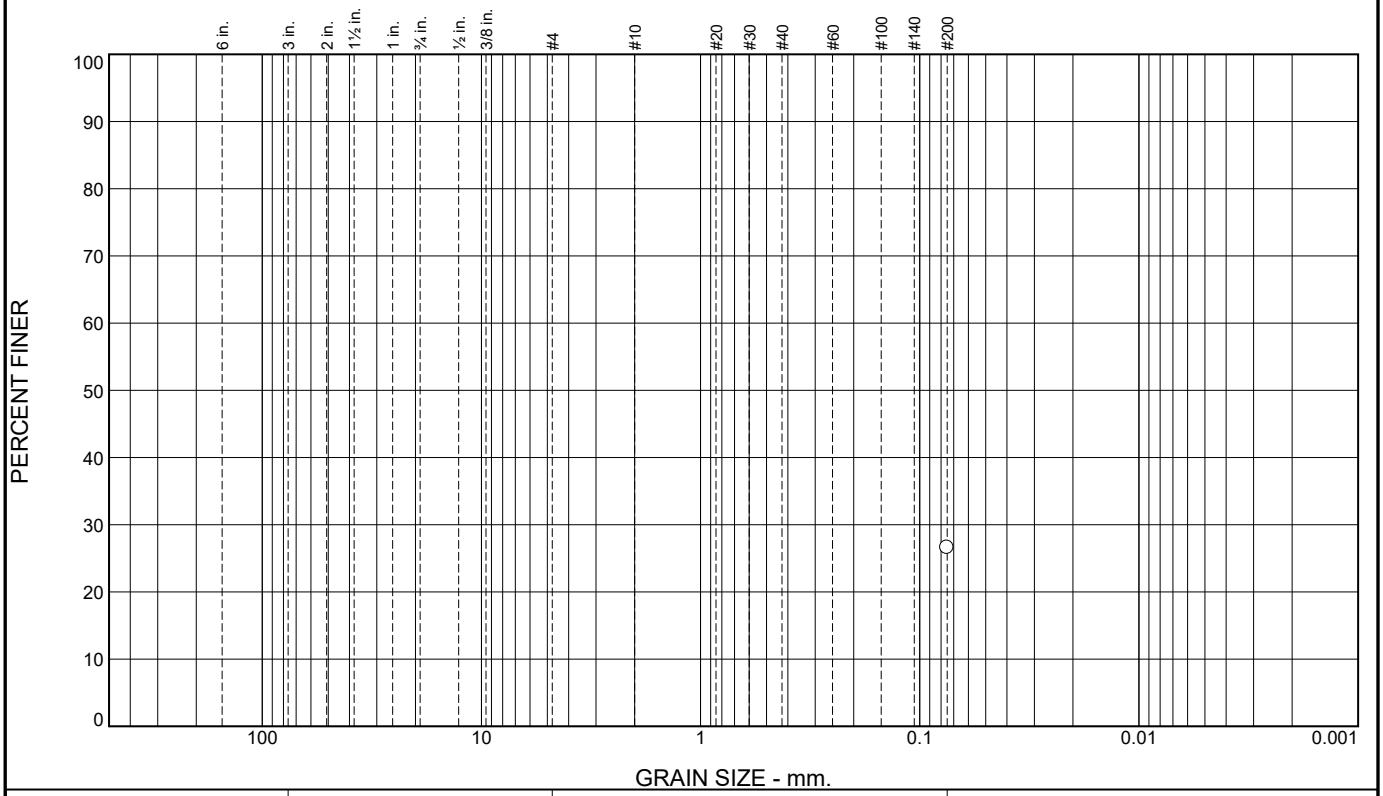
2MNEXT®

Client: Jacobs Engineering
Project: 15th Street Extension

Project No: 19G3005 **Figure**

Tested By: EH **Checked By:** RM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						26.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	26.6		

* (no specification provided)

Soil Description

Brown Silty Sand-SM

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= D_{85}= D_{60}=
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Date Sample;5/28/2019
Sampled By: Ali
Date Tested 5/30/2019, NM=11.6%

Location: B-12
Sample Number: 1966 **Depth:** 3.5-5.0' **Date:** 06/06/2019

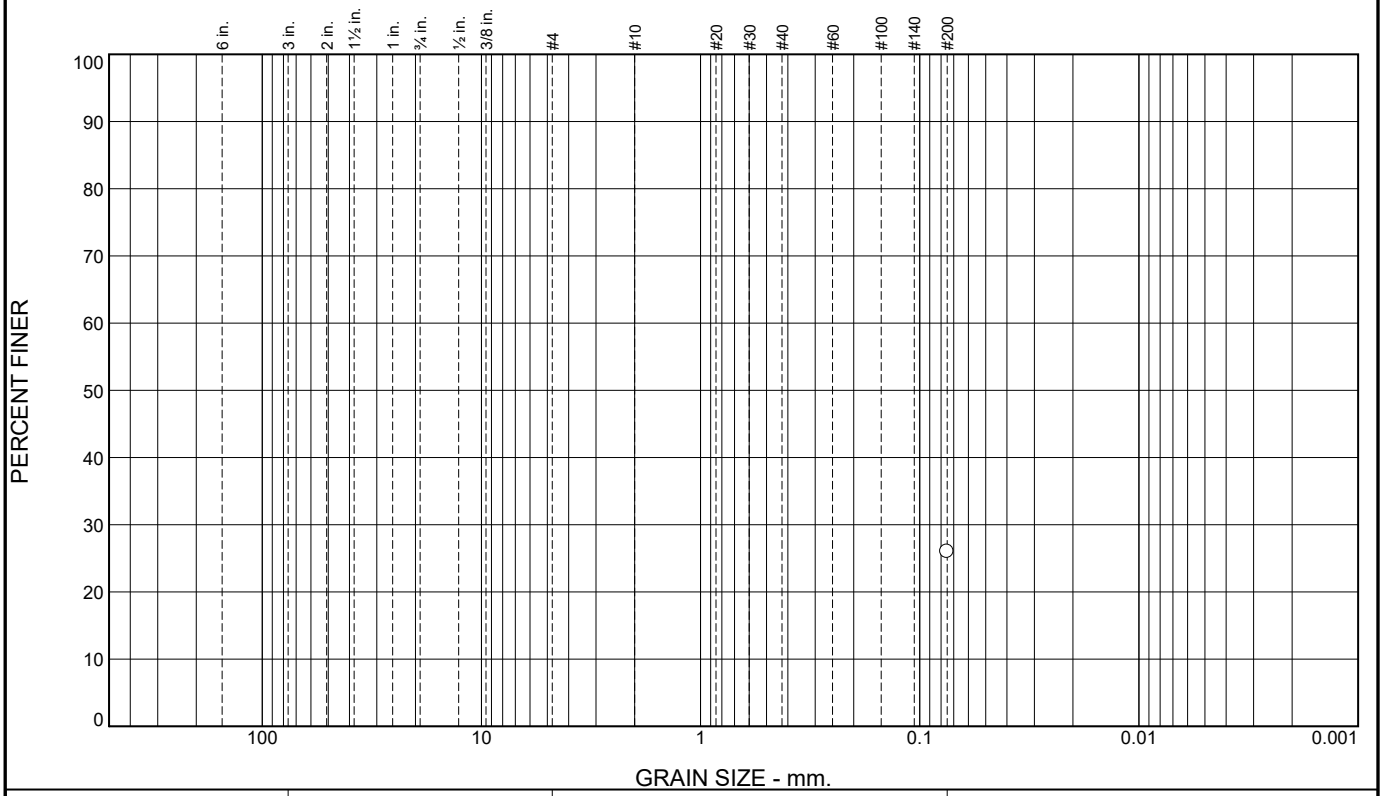
2MNEXT®

Client: Jacobs Engineering
Project: 15th Street Extension

Project No: 19G3005 **Figure**

Tested By: EH **Checked By:** RM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						26.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	26.0		

* (no specification provided)

Soil Description

Light Gray Micaceous Silty Sand-SM

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= D_{85}= D_{60}=
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Sample Date: 05/28/2019
Sampled By: Ali
Date Tested: 05/30/2019, NM= 16.2%

Location: B-15
Sample Number: 1967 **Depth:** 1-2.5' **Date:** 06/06/2019

2MNEXT®

Client: Jacobs Engineering
Project: 15th Street Extension

Project No: 19G3005 **Figure**

Tested By: EH **Checked By:** RM

Revised 07/23/2014

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL PROVISION

PROJECT: 15th Street Extension, Fulton County

PI No. 0015019

Section 154 — Construction Vibration Monitoring

Add the following:

154.1 General Description

This Work consists of performing preconstruction crack surveys, seismograph and other monitoring of construction vibrations, and post construction crack surveys of the buildings located on Parcels #1, 4, 6, 8 and 9 adjacent to the proposed project construction on 15th street from West Peachtree Street NW to Williams Street NW by procuring the services of a prequalified subcontractor specializing in this work.

154.1.01 Definitions

General Provisions 101 through 150.

154.1.02 Related References

A. Standard Specifications

General Provisions 101 through 150.

B. Referenced Documents

General Provisions 101 through 150.

154.1.03 Submittals

A. Prequalification of Subcontractor

Submit the following documentation for the Engineer's review and approval a minimum of thirty days prior to beginning construction activities on the project:

Evidence of the subcontractor's successful completion of at least five projects similar in concept and scope to the proposed crack survey and vibration monitoring. Include names, addresses and telephone numbers of the owners' representatives for verification.

Résumés of employees performing this work. Provide evidence showing each employee possesses experience and knowledge similar in concept and scope of this work for performing crack surveys and installing and reading seismographs. Provide evidence that the reports will be reviewed and signed by a

Georgia Licensed Professional Engineer or Georgia Licensed Professional Geologist. The Department will be sole judge of determining if employees are qualified to perform the work on this project.

A detailed survey plan, monitoring plan, and sequence of work that describes all materials, methods and equipment to be used to complete the crack survey and vibration monitoring.

B. Construction Monitoring

Submit the following documentation during construction monitoring:

Preconstruction Crack Survey Report documenting existing conditions of buildings prior to construction activities in accordance with subsection 154.3.03.B.

Monthly Seismograph Data and Data Summary Report and Activity Log of all construction activities within 500 feet (152 meters) of the seismograph in accordance with subsection 154.3.03.A.1.

Reports of building conditions regarding cracks or any other damage potentially caused by construction activities as complaints are received in accordance with subsection 154.3.03.C.

C. Post Construction

Submit a Post Construction Crack Survey Report in accordance with subsection 154.3.03.D documenting post construction condition of cracks or damage identified in the pre-construction survey and cracks or any other damage potentially caused by construction activities.

154.2 Materials

General Provision 101 through 150.

154.3 Construction Requirements

154.3.01 Personnel

Ensure all employees performing this work have been approved by the Engineer in accordance with subsection 154.1.03.A.

154.3.02 Equipment

A. Seismograph

Use a seismograph(s) that is weather proof and capable of continuously recording particle velocity in three perpendicular components with a flat response of 2-250 HZ over a range of at least 0.01 to 5.0 inches per second (0.254 to 127 mm per second). Provide a seismograph(s) that employs an internal dynamic calibration during each recording sequence and that has been shake table tested within the previous 24 months verifying an accuracy of +/- 5% over the frequency range of 4 to 125 Hertz. Provide a recorder/ software system that is capable of digitally storing and reproducing vibration levels in tabular or histogram (bar graph) form at no greater than six minute intervals.

B. Crack Gauges

Use crack gauges specifically designed for use on this type of work. Utilize a minimum of 15 crack gauges and a maximum of 25 to monitor significant cracks on the interior or exterior of buildings located closest to the construction activities. Submit the proposed locations of crack gauges to the Engineer for review and approval prior to installation. Use crack gauges that do not damage or stain existing surfaces. Replace missing or damaged gauges at no additional cost to the Department. Repair and restore surfaces back to the pre- installation state.

154.3.03 Construction

Obtain Engineer's written approval of the Prequalification documents submitted in accordance with Subsection 154.1.03.A prior to beginning this work.

Perform the preconstruction crack survey prior to starting construction activities on the project.

Install and begin seismograph monitoring prior to starting excavation, shoring and backfilling construction activities on the project.

Maintain seismograph and crack monitoring until excavation, shoring and backfilling, compaction of subgrade, base and pavement construction activities on the project are complete.

A. Seismograph Installation and Monitoring

Monitor vibrations at building(s) using seismograph(s) when construction activities including, but not limited to, excavation, shoring installation, backfilling, and compaction of subgrade, base and pavement are within 75 feet (23 meters) of the building(s), or otherwise have the potential to result in vibrations that may cause damage or complaints. Relocate seismograph(s) as needed. Protect the seismograph from weather and vandalism. Replace missing or damaged equipment at no cost to the Department. Document the following information at the time that the seismograph is installed:

Date and time of installation

Coordinates of installed instrument or Station and offset

Method of transducer attachment

Name and affiliation of the person installing the instrument

1. Monthly Seismograph Data and Data Summary Report and Activity Log:

Compile a Monthly Seismograph Data and Data Summary Report containing the data from the seismograph and a summarization of the data showing time and magnitude of the maximum vibration that has occurred each day.

Maintain an activity log of all construction activities within 500 feet (152 meters) of the seismograph Include the following data in each log:

Location of construction activity

Type of construction activity

Types and number of construction equipment being used, including model, manufacture and weight.

Date and times construction equipment was used.

Submit Monthly Seismograph Data Summary Report and Activity Log to the Engineer on a monthly basis.

B. Preconstruction Crack Survey

Complete a preconstruction crack survey on the outside and inside of all buildings located on Parcels #1, 4, 6, 8 and 9. Document building conditions by taking photographs and detailed notes citing location, length and width of cracks. Compile documentation into a Preconstruction Crack Survey Report and submit to the Engineer.

C. Building Monitoring

Monitor buildings during construction for any new cracks and or elongation or widening of existing cracks. Provide a report of building conditions to the Engineer regarding cracks or any other damage potentially caused by construction activities as complaints are received.

D. Post Construction Crack Survey

Complete a post construction crack survey on the outside and inside of all buildings located on Parcels: #1, 4, 6, 8 and 9. Document building conditions by taking photographs and detailed notes citing condition of cracks or damage identified in the pre-construction survey; also, location, length and width of cracks or any other damage potentially caused by construction activities.

154.4 Measurement

The Work under this Contract Item is not measured separately for payment.

154.5 Payment

This Contract Item completed and accepted will be paid for at the Lump Sum Price bid. Payment will be full compensation for furnishing and installing the seismograph(s) and crack gauges, for monitoring and reporting vibration data recorded on the seismograph(s) and crack gauges, and completing crack survey and documenting building conditions and providing copies of all data to the Engineer in accordance with this specification. Seismographs, crack gauges and all other measuring equipment and devices will remain property of the Contractor.

Payment will be made under:

Item No. 154	Construction Vibration Monitoring	Per Lump Sum

Office of Materials and Testing

pH	5.9
Resistivity	9999

Project Number: **15th. Street Extension - 19G3005** **County: Fulton** **P.I. Number: GDOT P.I. No. 0015019**

Pipe Culvert Material Alternates

BID ADDENDUM # 1

TYPE OF INSTALLATION			PIPE TYPE									
			CONCRETE	STEEL			ALLUMINUM	THERMOPLASTIC				
			REINFORCED CONCRETE AASHTO M-170	CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M-36	CORRUGATED STEEL PLAIN ZINC COATED AASHTO M-36	POLYMER COATED STEEL AASHTO M-245	CORRUGATED ALUMINUM AASHTO M-196	CORRUGATED HDPE AASHTO M-252	CORRUGATED SMOOTHED LINED HDPE TYPE "S" AASHTO M-294	CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M 330	PVC CORRUGATED SMOOTH INTERIOR ASTM F-949	PVC Profile Wall Drain Pipe AASHTO M-304
STORM DRAIN	NON-TRAVEL BEARING (OUTSIDE ROADBED)	INTERSTATE	X									
		NON INTERSTATE	X	X		X	X		X	X	X	X
	TRAVEL BEARING (INSIDE ROADBED)	GRADE ≤ 10% ADT < 1,500	X	X		X	X		X	X	X	X
		GRADE ≤ 10% 1,500 < ADT < 5,000	X	X		X	X		X	X	X	X
		GRADE ≤ 10% 5,000 < ADT < 15,000	X						X	X	X	X
		GRADE ≤ 10% ADT > 15,000 & INTERSTATES	X									
		GRADE > 10%				X			X	X	X	X
SIDE DRAIN			X	X		X	X		X	X	X	X
PERMANENT SLOPE DRAIN				X	X	X	X		X	X	X	X
PERFORATED UNDERDRAIN				X	X		X	X	X	X	X	X

NOTES:

1 Allowable materials are indicated by an "X".

2 Structural, installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications

3 The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.

4 Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.

Rev. 1-12-16

DocuSign Envelope ID: 38904FEA-0F4D-4A8E-B9F9-D1CD4C3CBD4F

4/14/2022	GPLOT-V8	0015019_01-0001.dgn	CONTRACT No.	P. I. No.
Kay.Sharpe	gplotborder-V81-PO.tbl	GRWCOV		0015019

BID ADDENDUM #1

CITY OF ATLANTA

PLAN AND PROFILE OF PROPOSED

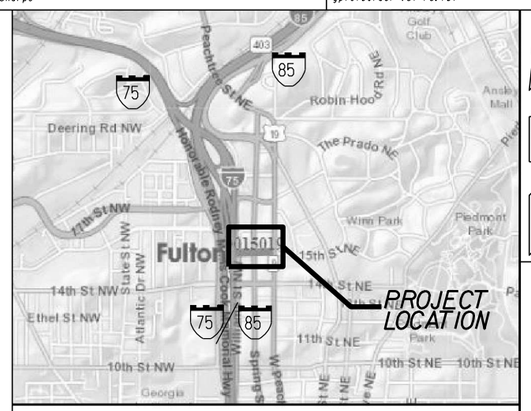
15TH STREET EXTENSION

FROM SR 9/WEST PEACHTREE STREET TO CS 673/WILLIAMS STREET FULTON COUNTY

FEDERAL AID PROJECT

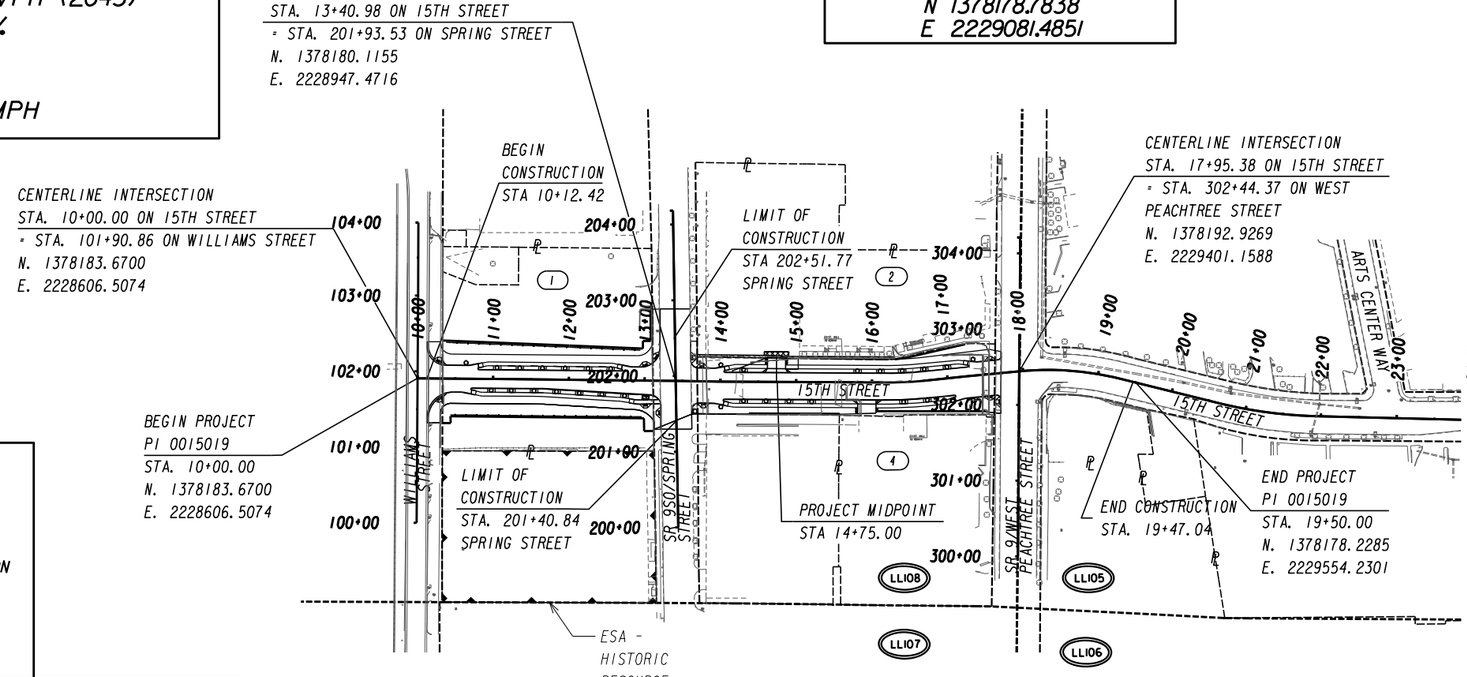
FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P.I.NO. 0015019

PROJECT MIDPOINT
STA 14+75.00
N 1378178.7838
E 2229081.4851



LOCATION SKETCH N.T.S.

DESIGN DATA:
TRAFFIC A.D.T.: 9,725 VPD (2023)
TRAFFIC A.D.T.: 11,825 VPD (2043)
TRAFFIC D.H.V.: 1147 VPH (2043)
DIRECTIONAL DIST: 58%
% TRUCKS: 3.0%
24 HR.TRUCKS %: 6.0%
SPEED DESIGN: 25 MPH



LOCATION & DESIGN APPROVAL DATE: APRIL 20,2020

FUNCTIONAL CLASS:
URBAN LOCAL ROAD

THIS PROJECT IS 100% IN FULTON COUNTY AND IS 100% IN CONG. DIST.NO.5.

PROJECT DESIGNATION: EXEMPT

NOTE :
ALL REFERENCES IN THIS DOCUMENT,WHICH INCLUDES ALL PAPERS,WRITINGS, DOCUMENTS,DRAWINGS,OR PHOTOGRAPHS USED,OR TO BE USED IN CONNECTION WITH THIS DOCUMENT,TO "STATE HIGHWAY DEPARTMENT OF GEORGIA","STATE HIGHWAY DEPARTMENT","GEORGIA STATE HIGHWAY DEPARTMENT","HIGHWAY DEPARTMENT",OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA,AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)1/94 WEST ZONE,AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

THE DATA,TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY,WHETHER BY DRAWINGS OR NOTES,OR IN ANY OTHER MANNER,ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER,THE SAME ARE SHOWN AS INFORMATION ONLY.ARE NOT GUARANTEED,AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY.THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04,102.05,AND 104.03 OF THE SPECIFICATIONS.

LENGTH OF PROJECT PI 0015019	FULTON COUNTY NO.121
	MILES
NET LENGTH OF ROADWAY	0.180
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.180
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.180

Jacobs

SCALE IN FEET
0 100 200 400

GEORGIA REGISTERED PE028999 PROFESSIONAL ENGINEER RICHARD E. BOSTON

PREPARED BY: Richard E Boston
DESIGN

RECOMMENDED FOR APPROVAL BY: DocuSigned by: Ibrahim Abousaud 4/15/2022
4E9C5705B54A4CF...
CITY DESIGN ENGINEER

PLANS COMPLETED 4-15-2022	
REVISIONS 7-12-2022	
8-24-2022	

DRAWING No. 01-0001

CGNCOV

BID ADDENDUM #1

P.I. No. 0015019

DATE	DRAWING NO.	REVISION
07-12-2022	02-0001	REVISED SHEETS NUMBERS FOR 6 SERIES, 32 SERIES, 44 SERIES, AND 60 SERIES.
	04-0001	ADDED GENERAL NOTES *17 & *18 FOR MILESTONES A AND B.
	13-0001	ADDED REFERENCE TO GENERAL NOTES *17 & *18 REGUARDING MILESTONES A AND B.
	13-0001A	ADDED REFERENCE TO GENERAL NOTES *17 & *18 REGUARDING MILESTONES AAND B.
	13-0002	ADDED REFERENCE TO GENERAL NOTES *17 & *18 REGUARDING MILESTONES A AND B.
	13-0002A	ADDED REFERENCE TO GENERAL NOTES *17 & *18 REGUARDING MILESTONES A AND B.
	13-0002B	ADDED REFERENCE TO GENERAL NOTES *17 & *18 REGUARDING MILESTONES A AND B.
	13-0002C	ADDED REFERENCE TO GENERAL NOTES *17 & *18 REGUARDING MILESTONES A AND B.
	19-0001	REVISED NO CONSTRUCTION AREA FROM 30-FT TO 40-FT IN STAGE 2 NOTES.
08-24-2022	06-0001	ADDED/REVISED QUANTITIES.
	06-0003	REVISED PAY ITEM 163-0300 TO 163-00301
	07-0001	ADDED REVISED PAY ITEMS

DATE	DRAWING NO.	REVISION

Jacobs

REVISION DATES		
07/12/2022		
08/24/2022		

REVISION SUMMARY

15TH STREET EXTENSION

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		03-0001
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

150-1000 TRAFFIC CONTROL - PI 0015019	
LS	

210-0100 GRADING COMPLETE - PI 0015019	
LS	

643-8300 ORNAMENTAL FENCE	
508	LF

205-0210 EXCAVATION - ROCK	
12800	CY

167-1000 WATER QUALITY MONITORING AND SAMPLING	
4	EA

154-1000 CONSTRUCTION VIBRATION MONITORING	
LS	

167-1500 WATER QUALITY INSPECTIONS	
24	MO

600-0001 FLOWABLE FILL	
80	CY

150-5010 TRAF CTRL, PORTABLE IMPACT ATTN	
5	EA

620-0100 TEMPORARY BARRIER, METHOD NO. 1	
460	LF

643-8200 BARRIER FENCE (ORANGE), 4 FT	
125	LF

SUMMARY OF SURFACING QUANTITIES

LOCATION	402-3130 RECYCLED ASPH CONC, 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME (TN)	402-3190 RECYCLED ASPH CONC, 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (TN)	402-3121 RECYCLED ASPH CONC, 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (TN)	413-0750 TACK COAT (GL)	432-5010 MILL ASPH CONC PVMT, VARIABLE DEPTH (SY)	310-1101 GR AGGR BASE CRS, INCL MATL (TON)
15TH STREET	266	306	614	643	800	1924
AS DIRECTED BY ENGINEER	4	4	6	57		6
TOTAL:	270	310	620	700	800	1930

SUMMARY OF CURB & GUTTER AND SIDEWALK QUANTITIES

LOCATION	441-6222 CONC CURB & GUTTER, 8 IN X 30 IN, TP 2 (LF)	437-1571 STRAIGHT GRANITE CURB, 5 IN X 17 IN, TP A (LF)	437-1571 * STRAIGHT GRANITE CURB, 5 IN X 17 IN, TP A (LF)	437-2571 CIRCULAR GRANITE CURB, 5 IN X 17 IN, TP A (LF)	441-0104 CONC SIDEWALK, 4 IN (SY)	441-0104 * CONC SIDEWALK, 4 IN (SY)	441-0108 CONC SIDEWALK, 8 IN (SY)
15TH STREET	95	1297	1297	338	2243	2243	37
15TH STREET (ALTERNATE 1) *			-81*			-285*	
AS DIRECTED BY ENGINEER	5	13	14	7	7	7	3
TOTAL:	100	1310	1230	345	2250	1965	40

* ADDITIONAL PAY ITEM/QUANTITY INCLUDED FOR BID ALTERNATE

SUMMARY OF DRIVEWAY QUANTITIES

LOCATION / DESCRIPTION	441-0018 DRIVEWAY CONCRETE, 8 IN TK (SY)	441-0018 * DRIVEWAY CONCRETE, 8 IN TK (SY)
DW 1	62	62
DW 2	45	45
DW 2 (ALTERNATE 1) *		-25*
AS DIRECTED:	3	3
TOTAL	110	85

* ADDITIONAL PAY ITEM/QUANTITY INCLUDED FOR BID ALTERNATE

SUMMARY OF SIGNING QUANTITIES

LOCATION	CODE	636-1033 HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9 TYPE 1 SIZE	QTY	SF	636-1036 HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11 TYPE 1 SIZE	QTY	SF	636-2070 GALV STEEL POSTS, TP 7 TYP7 (2" 14 GA) LF	QTY	LF
15TH STREET										
10+71 RT	R9-7L	12"X18"	1	1.5				11.50	1	11.50
11+12 LT	R3-17	24"X18"	1	3.00				12.17	1	12.17
	R3-17BP	24"X8"	1	1.33						
11+14 RT	R2-1	24"X30"	1	5.00				12.50	1	12.50
12+82 LT	R9-7L	12"X18"	1	1.5				11.50	1	11.50
13+08 LT	R6-2L	24"X30"	1	5.00						
13+71 RT	R6-2R	24"X30"	1	5.00						
13+68 LT	R3-2	30"X30"	1	6.25				12.50	1	12.50
13+99 RT	R9-7L	12"X18"	1	1.5				11.50	1	11.50
14+39 LT	SPCL 1	24"X30"	1	5.00				12.50	1	12.50
16+50 LT	R2-1	24"X30"	1	5.00				12.50	1	12.50
16+89 RT	R3-17	24"X18"	1	3.00				12.17	1	12.17
	R3-17BP	24"X8"	1	1.33						
17+36 LT	R9-7L	12"X18"	1	1.5				11.50	1	11.50
18+41 LT	R6-2L	24"X30"	1	5.00						
18+51 LT	R10-11A	24"X30"	1	5.00				12.50	1	12.50
18+73 RT	R4-11	30"X30"	1	6.25				12.50	1	12.50
18+91 LT	R3-17	24"X18"	1	3.00				12.17	1	12.17
	R3-17AP	24"X8"	1	1.33						
WILLIAMS STREET										
100+81 LT	R5-1A				42"X30"	1	8.75	12.50	1	12.50
101+17 RT	R5-1				36"X36"	1	9.00	13.00	1	13.00
101+44 LT	R5-1				36"X36"	1	9.00	13.00	1	13.00
102+01 LT	R6-2R	24"X30"	1	5.00				12.50	1	12.50
SPRING STREET										
202+70 RT	R5-1				36"X36"	1	9.00	12.50	1	12.50
202+70 LT	R5-1				36"X36"	1	9.00	12.50	1	12.50
WEST PEACHTREE STREET										
301+60 RT	R5-1				30"X30"	1	6.25	12.50	1	12.50
301+94 LT	R6-2R	24"X30"	1	5.00				12.50	1	12.50
	R4-11	30"X30"	1	6.25						
302+66 LT	R6-2R	24"X30"	1	5.00				12.50	1	12.50
302+92 RT	R6-2L	24"X30"	1	5.00				12.50	1	12.50
AS DIRECTED BY ENGINEER:				3.75			4.00			6.50
TOTAL:				105.00			55.00			302.50

WALL QUANTITIES

	500-3115 CLASS A CONCRETE, TP P2, RETAINING WALL (LF)	500-3115 * CLASS A CONCRETE, TP P2, RETAINING WALL (LF)	500-3120 CLASS A CONCRETE, TP P3, RETAINING WALL (LF)	500-3120 * CLASS A CONCRETE, TP P3, RETAINING WALL (LF)	500-3201 CLASS B CONCRETE, RETAINING WALL (CY)	207-0203 FOUND BKFILL MATL, TP 11 (CY)	627-1000 MSE WALL FACE, 0-10 FT HT (SF)	627-1010 MSE WALL FACE, 10-20 FT HT (SF)	627-1120 COPING B (LF)
WALL 1						617	580	419	119
WALL 2	91	91	54	54					
WALL 2 (ALTERNATE 1) *		-91*		-54*					
WALL 3					39				
TOTAL:	91	0	54	0	39	617	580	419	119

* ADDITIONAL PAY ITEM/QUANTITY INCLUDED FOR BID ALTERNATE

Jacobs

REVISION DATES

08/24/2022		

SUMMARY QUANTITIES

15TH STREET EXTENSION

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		06-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

UTILITY RELOCATIONS

	500-3101	611-8050	611-8120	611-8010	611-8140	670-1060	670-5620	670-9920	670-9710
	CLASS A CONCRETE FOR THRUST BLOCKS	ADJUST MANHOLE TO GRADE	ADJUST WATER METER BOX TO GRADE	ADJUST HYDRANT TO GRADE	ADJUST WATER VALVE BOX TO GRADE	WATER MAIN, 6 IN, DIP	WATER SERVICE LINE, ¾ IN, COPPER, TYPE K	REMOVE EXISTING FIRE HYDRANT	RELOCATE EXISTING FIRE HYDRANT
	CY	EA	EA	EA	EA	LF	LF	EA	EA
TOTAL:	1	2	1	2	3	60	25	1	1

LANDSCAPING

	702-0905	702-0570	702-9025	708-1000	754-4000	754-6000	900-0037	576-1012	668-7024
	QUERCUS PHELLOS - 25 GAL	LIRIOPE SPICATA - FLAT	LANDSCAPE MULCH	PLANT TOPSOIL	WASTE RECEPTACLE UNIT	BICYCLE RACK	CONCRETE PAVERS	SLOPE DRAIN PIPE, 12 IN	DRAIN INLET 24-IN (GA STD 1035)
	EA	EA	SY	CY	EA	EA	SF	LF	EA
TOTAL:	33	2380	225	225	8	8	392	65	1

TEMPORARY EROSION CONTROL

	163-0232	163-0550	165-0105	165-0030	163-0301	165-0101	163-0310	165-0310	171-0030	163-0240
	TEMPORARY GRASSING	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	MAINTENANCE OF INLET SEDIMENT TRAP	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	MAINTENANCE OF CONSTRUCTION EXIT	CONSTRUCTION EXIT TIRE CLEANING STATION	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA	TEMPORARY SILT FENCE, TYPE C	MULCH
	AC	EA	EA	LF	EA	EA	EA	EA	LF	TN
TOTAL:	1	23	23	1663	4	4	4	4	3325	20

PERMANENT EROSION CONTROL

	700-6910	700-7000	700-8000	700-8100	700-9300
	PERMANENT GRASSING	AGRICULTURAL LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	SOD
	AC	TN	TN	LBS	SY
TOTAL:	0.3	0.1	0.2	15	50

SUMMARY OF SIGNAL QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
610-6872	REM STEEL STRAIN POLE	EA	2
610-9001	REM SIGN	EA	1
636-1041	HWY SIGNS, TP2MAT, REFL SH TP 9	SF	89
639-3014	STEEL STRAIN POLE, TP IV 25' AND 35' TANDEM MAST ARMS, INCL LUMINAIRE ARM	EA	1
639-3014	STEEL STRAIN POLE, TP IV 35' MAST ARM, INCL LUMINAIRE ARM	EA	1
639-3014	STEEL STRAIN POLE, TP IV 25' AND 45' TANDEM MAST ARMS	EA	1
639-3014	STEEL STRAIN POLE, TP IV 25' MAST ARM, INCL LUMINAIRE ARM	EA	1
639-3014	STEEL STRAIN POLE, TP IV 35' AND 35' TANDEM MAST ARMS	EA	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO.1	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO.2	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO.3	LS	1
653-0130	THERM PVMT MARK, ARROW, TP 3	EA	1
682-6222	CONDUIT, NM,TP 2, 2 IN	LF	270
682-6233	CONDUIT, NM,TP 3, 2 IN	LF	1385
682-9950	DIRECTIONAL BORE, 7 IN	LF	375
936-1000	CCTV SYSTEM, TYPE H	EA	1
937-1000	VIDEO CAMERA SENSOR ASSEMBLY (DUAL-PURPOSE CCTV VIDEO DETECTION)	EA	3
937-6150	PROGRAMMING MONITOR, TYPE A	EA	3

Jacobs

REVISION DATES
08/24/2022

SUMMARY QUANTITIES
15TH STREET EXTENSION

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No. 06-0003

QUANTITIES REQUIRED BY AMENDMENT

DATE	ITEM NO.	AMENDMENT DATE	AMENDMENT NUMBER	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY
08/24/2022	163-0300	08/24/2022	1	PAY ITEM 163-0300 WAS REMOVED.	LF	4	0
08/24/2022	163-0301	08/24/2022	1	PAY ITEM 163-0301 WAS ADDED.	LF	0	4
08/24/2022	437-1571	08/24/2022	1	PAY ITEM 437-1571 WAS REVISED.	LF	0	-81
08/24/2022	437-1571	08/24/2022	1	PAY ITEM 437-1571 WAS REVISED FOR ALTERNATE 1.	LF	1228	1310
08/24/2022	441-0018	08/24/2022	1	PAY ITEM 441-0018 WAS ADDED FOR ALTERNATE 1.	SY	25	-25
08/24/2022	441-0018	08/24/2022	1	PAY ITEM 441-0018 WAS REVISED.	SY	20	45
08/24/2022	500-3115	08/24/2022	1	PAY ITEM 500-3115 WAS ADDED FOR ALTERNATE 1.	LF	0	-91
08/24/2022	500-3120	08/24/2022	1	PAY ITEM 500-3120 WAS ADDED FOR ALTERNATE 1.	LF	0	-54

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REVISION DATES
08/24/2022

QUANTITIES (AMENDMENT)
15TH STREET EXTENSION

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No.
07-0001