

CITY OF ALPHARETTA

PUBLIC HEARING APPLICATION

FOR OFFICE USE ONLY	
Case #: V-24-12	4
PH #: PHA240010	
<input type="checkbox"/> Property Taxes & Code Violations Verified	
<input checked="" type="checkbox"/> Fee Paid	Initial: ERC

COMMUNITY DEVELOPMENT DEPARTMENT

2 PARK PLAZA

ALPHARETTA, GA 30009

1. This page should be the first page in each of your completed application packets.
2. It is preferred that all responses be typed. Illegible applications will not be accepted.
3. Prior to signing and submitting your application, please check all information supplied on the following pages to ensure that all responses are complete and accurate. Incomplete applications will not be accepted.
4. Payment of all applicable fees must be made at the time of application. Payment may be made via cash, credit card (American Express, Master Card or Visa), or check made payable to "City of Alpharetta." Please note that a 3% convenience fee will be added to all credit card transactions.
5. Applications will be accepted on the designated submittal dates between the hours of 8:30 AM and 3:30 PM.
6. If you have any questions regarding this form, please contact the Community Development Department by calling 678-297-6070.

Contact Information:

Contact Name: Carter Engineering Consultants, Inc. Telephone: 770-725-1200

Address: 1010 Commerce Drive Suite: _____

City Bogart State: GA Zip: 30622 Fax: _____

Mobile Tel: 770-725-1200 Email: jessica@carterengineering.com

Subject Property Information:

Address: 115 Lambdin Lane Current Zoning: R-12

District: 1 Section: 1 Land Lot: 78/95 Parcel ID: 11 017200951037

Proposed Zoning: _____ Current Use: Residential

This Application For *(Check All That Apply)*:

- | | | |
|--|--|---|
| <input type="checkbox"/> Conditional Use | <input type="checkbox"/> Master Plan Amendment | <input type="checkbox"/> Comprehensive Plan Amendment |
| <input type="checkbox"/> Rezoning | <input type="checkbox"/> Master Plan Review | |
| <input checked="" type="checkbox"/> Variance | <input type="checkbox"/> Public Hearing | |
| <input type="checkbox"/> Exception | <input type="checkbox"/> Other <i>(Specify):</i> _____ | |

APPLICANT REQUEST AND INTENT

What is the proposed use(s) of the property?

Residential

Applicant's Request (Please itemize the proposal):

Permission to perform construction activities within the state buffer zone in order to stabilize a segment of a tributary to Long Indian Creek on the Agarwal residential property

Applicant's Intent *(Please describe what the proposal would facilitate).*

The property owner requests permission to perform construction activities within the state buffer zone in order to stabilize a segment of a tributary to Long Indian Creek on the Agarwal residential property. The area proposed for stabilization is experiencing scour due to high velocities of flow from the tributary as it exits the culvert under the county road Tuxford Drive during storm events. The resultant erosion threatens to undermine the foundation of the Agarwal residence if left untreated causing unnecessary hardship and would continue to contribute sediment into the Indian Creek system. Proposed Stabilization methods include the use of gabion baskets at the toe of the slope with live stakes of native tree species driven into the bank for further stability. Gabion baskets are necessary to prevent the high velocities of water from eroding the planted buffer during establishment stages and to maintain designed slopes. The proposed actions will not cause substantial detriment to the public good or impair the purpose and intent of the zoning code. The stream will retain access to its natural floodplain. Establishment of a vegetated buffer will provide ecosystem services which include habitat for aquatic and terrestrial species and shade while improving the health and stability of the stream.

PROPERTY OWNER AUTHORIZATION

Property Owner Information:

Contact Name: Sameer and Divya Agarwal Telephone: 203-919-3188
Address: 115 Lambdin Lane Suite: _____
City Alpharetta State: GA Zip: 30022

Authorization:

I do solemnly swear and attest, subject to criminal penalties for false swearing, that I am the legal owner, as reflected in the records of Fulton County, Georgia, of the property identified below, which is the subject of the attached Application for Public Hearing before the City of Alpharetta, Georgia.

As the legal owner of record of the subject property, I hereby authorize the individual named below to act as the applicant in the pursuit of the Application for Public Hearing in request of the items indicated below.

- | | |
|---|--|
| <input type="checkbox"/> Annexation | <input type="checkbox"/> Special Use |
| <input type="checkbox"/> Rezoning | <input type="checkbox"/> Conditional Use |
| <input checked="" type="checkbox"/> Variance | <input type="checkbox"/> Master Plan |
| <input type="checkbox"/> Land Use Application | <input type="checkbox"/> Other |


Property Owner's Authorized Applicant (if applicable):

Name of Authorized Applicant: Carter Engineering Consultants, Inc. Telephone: 770-725-1200
Address: 1010 Commerce Drive Suite: _____
City Bogart State: GA Zip: 30622

So Sworn and Attested:

Owner Signature:  Date: 03/01/2024

Notary:

Notary Signature:  Date: 03/01/2024
**Seven Perry
NOTARY PUBLIC
BARROW COUNTY, GEORGIA
My Commission Expires 01/01/2028**

DISCLOSURE FORM

The Official Code of Georgia Annotated requires disclosure of campaign contributions to government officials by an applicant or opponent of a rezoning or public hearing petition (O.C.G.A. 36-67 A-1).

Applicants must file this form with the City of Alpharetta Community Development Department within ten (10) days after filing for rezoning or public hearing. Opponents to a rezoning or public hearing petition must file this form five (5) days prior to the Planning Commission meeting at which the subject rezoning or public hearing petition is scheduled to be heard.

Name of Applicant or Opponent: Sameer and Divya Agarwal

Subject Public Hearing Case: 115 Lambdin Lane

Campaign Contribution Information:

Please provide the requested information for each contribution with a dollar amount or value of \$250 or more made within the past two (2) years to an Alpharetta Official by the individual identified above. Please use a separate form for each Alpharetta Official to whom such a contribution as been made.

If the individual identified above has made no such contributions to an Alpharetta Official within the past two (2) years, please indicate this by entering "N/A" on the appropriate lines below.

Name of Official: _____ Position: _____

Description of Contribution:	<u>NA</u>	Value:	_____
Description of Contribution:	_____	Value:	_____
Description of Contribution:	_____	Value:	_____
Description of Contribution:	_____	Value:	_____
Description of Contribution:	_____	Value:	_____

Campaign Contribution Information:

I do solemnly swear and attest, subject to criminal penalties for false swearing, that the information provided in this Disclosure Form is true and accurate and that I have disclosed herein any and all campaign contributions made to an Official of the City of Alpharetta, Georgia in accordance with O.C.G.A. 36-67 A-1.

Signature: Divya Agarwal

Date: 03/04/2024

BOARD OF ZONING APPEALS REVIEW CRITERIA

Please respond to the following ONLY if you are applying for a zoning variance.

Are there extraordinary and exceptional conditions pertaining to the subject property because of its size, shape, or topography? Please describe them.

The area proposed for stabilization is experiencing scour due to high velocities of flow from the tributary as it exits the culvert under the county road Tuxford Drive during storm events.

Would the application of the Zoning Code standards as they relate to the subject property create an unnecessary hardship? Please explain.

The resultant erosion threatens to undermine the foundation of the Agarwal residence if left untreated causing unnecessary hardship and would continue to contribute sediment into the Indian Creek system.

Are there conditions that are peculiar to the subject property? Please describe them in detail.

The area proposed for stabilization is experiencing scour due to high velocities of flow from the tributary as it exits the culvert under the county road Tuxford Drive during storm events. The resultant erosion threatens to undermine the foundation of the Agarwal residence if left untreated causing unnecessary hardship and would continue to contribute sediment into the Indian Creek system.

Would relief, if granted, cause substantial detriment to the public good or impair the purpose and intent of the Zoning Code? Please defend your response.

Proposed Stabilization methods include the use of gabion baskets at the toe of the slope with live stakes of native tree species driven into the bank for further stability. Gabion baskets are necessary to prevent the high velocities of water from eroding the planted buffer during establishment stages and to maintain designed slopes. The proposed actions will not cause substantial detriment to the public good or impair the purpose and intent of the zoning code. The stream will retain access to its natural floodplain. Establishment of a vegetated buffer will provide ecosystem services which include habitat for aquatic and terrestrial species and shade while improving the health and stability of the stream.

On a separate sheet or sheets, please provide any information or evidence that supports your request and the statements that you have provided in this application.

CITIZEN PARTICIPATION FORM - PART A

This form must be completed and submitted with the applicant's completed Public Hearing Application. Applications submitted to the City of Alpharetta without a completed Citizen Participation Form - Part A will not be accepted.

Public Hearing or Project Name: 115 Lambdin Lane

Contact Name: Carter Engineering Consultants, Inc. Telephone: 770-725-1200

The following people will be notified of this application and provided information describing the subject proposal. Please note that ALL adjoining property owners MUST be notified. Use additional pages as needed.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Method by which these individuals will be contacted. Please mark all that apply. *If you select "Other," please provide a description of the method of contact that will be used.*

- | | |
|--|--|
| <input checked="" type="checkbox"/> Letter | <input type="checkbox"/> Personal Visits |
| <input type="checkbox"/> Telephone | <input type="checkbox"/> Group Meeting |
| <input type="checkbox"/> Email | <input type="checkbox"/> Other <i>(Please Specify)</i> |

Please describe the method(s) by which these individuals will have the opportunity to respond or contact the applicant with questions or concerns about the proposal.

Letter will include contact information (telephone number and email address) to respond with questions or concerns

CITIZEN PARTICIPATION FORM - PART A

This form must be completed and submitted with the applicant's completed Public Hearing Application. Applications submitted to the City of Alpharetta without a completed Citizen Participation Form - Part A will not be accepted.

Public Hearing or Project Name: 115 Lambdin Lane

Contact Name: Carter Engineering Consultants, Inc. Telephone: 770-725-1200

The following people will be notified of this application and provided information describing the subject proposal. Please note that ALL adjoining property owners MUST be notified. Use additional pages as needed.

Kenneth and Lisa Northcutt

Michael and Michelle Mahoney

Matthew and Melinda Urbanawiz

Bala and Kalpagam Panchapakesan

The Atul and Sangreeta Deval Recovable Trust

Jennifer and Robert Bryan

John and Mary Strika

Louis and Jane Ingwersen

Matthew and Daphne Bailey

Rodney and Vicky Thompson

Arnaud and Betty Wilson

Patrick and Jennifer Dwyer

Cindy and Michael Jenkins

Craig and Deborah Isaacs

Method by which these individuals will be contacted. Please mark all that apply. *If you select "Other," please provide a description of the method of contact that will be used.*

- | | |
|--|--|
| <input checked="" type="checkbox"/> Letter | <input type="checkbox"/> Personal Visits |
| <input type="checkbox"/> Telephone | <input type="checkbox"/> Group Meeting |
| <input type="checkbox"/> Email | <input type="checkbox"/> Other <i>(Please Specify)</i> |

Please describe the method(s) by which these individuals will have the opportunity to respond or contact the applicant with questions or concerns about the proposal.

Letter will include contact information (telephone number and email address) to respond with questions or concerns

CITIZEN PARTICIPATION FORM - PART A

This form must be completed and submitted with the applicant's completed Public Hearing Application. Applications submitted to the City of Alpharetta without a completed Citizen Participation Form - Part A will not be accepted.

Public Hearing or Project Name: 115 Lambdin Lane

Contact Name: Carter Engineering Consultants, Inc. Telephone: 770-725-1200

The following people will be notified of this application and provided information describing the subject proposal. Please note that ALL adjoining property owners MUST be notified. Use additional pages as needed.

Christopher and Gina Rosen

Atul and Barkha Suri

Garrett and Amy Lee

Carl and Patricia Winn

Aleksandr Khislavskiy et. al

Kristin Freret

Carolyn and Dustin Davis

Larry and Joy Boone

Anthony Wang and Ling Li

Elizabeth Beck

David Isom and Derek Scheidt

Margaret Gress

Heidi Henderson

Andrey and Roumiana Kouinski

Method by which these individuals will be contacted. Please mark all that apply. *If you select "Other," please provide a description of the method of contact that will be used.*

- | | |
|--|--|
| <input checked="" type="checkbox"/> Letter | <input type="checkbox"/> Personal Visits |
| <input type="checkbox"/> Telephone | <input type="checkbox"/> Group Meeting |
| <input type="checkbox"/> Email | <input type="checkbox"/> Other <i>(Please Specify)</i> |

Please describe the method(s) by which these individuals will have the opportunity to respond or contact the applicant with questions or concerns about the proposal.

Letter will include contact information (telephone number and email address) to respond with questions or concerns

CITIZEN PARTICIPATION FORM - PART A

This form must be completed and submitted with the applicant's completed Public Hearing Application. Applications submitted to the City of Alpharetta without a completed Citizen Participation Form - Part A will not be accepted.

Public Hearing or Project Name: 115 Lambdin Lane

Contact Name: Carter Engineering Consultants, Inc. Telephone: 770-725-1200

The following people will be notified of this application and provided information describing the subject proposal. Please note that ALL adjoining property owners MUST be notified. Use additional pages as needed.

Benjamin and Laura Demaline

Gabriel Gotchev

Richard and Emilia Goetz

Manish Vazirani and Priya Kapoor

Liad Chazan and Shimon Hazot

Albert and Printha Shaaya

Hong Hwang and Li Ting

Scott and Susan Grunwald

Jason and Nancy Robinson

Murray and Virginia Mann

Beth and Steven Shapiro

Kevin and Deana Feckoury

Stephen and Cynthia Rozier

Timothy and Crystal Leeman

Method by which these individuals will be contacted. Please mark all that apply. *If you select "Other," please provide a description of the method of contact that will be used.*

- | | |
|--|--|
| <input checked="" type="checkbox"/> Letter | <input type="checkbox"/> Personal Visits |
| <input type="checkbox"/> Telephone | <input type="checkbox"/> Group Meeting |
| <input type="checkbox"/> Email | <input type="checkbox"/> Other <i>(Please Specify)</i> |

Please describe the method(s) by which these individuals will have the opportunity to respond or contact the applicant with questions or concerns about the proposal.

Letter will include contact information (telephone number and email address) to respond with questions or concerns



March 1, 2024

RE: Letter of Intent Agarwal Residence, 115 Lambdin Ln, Alpharetta, GA 30022

To whom it may concern,

Carter Engineering Consultants is writing this letter of intent to request permission to perform construction activities within the state buffer zone in order to stabilize a segment of a tributary to Long Indian Creek on the Agarwal residential property. The area proposed for stabilization is experiencing scour due to high velocities of flow from the tributary as it exits the culvert under the county road Tuxford Drive during storm events. The resultant erosion threatens to undermine the foundation of the Agarwal residence if left untreated causing unnecessary hardship and would continue to contribute sediment into the Indian Creek system. Proposed Stabilization methods include the use of gabion baskets at the toe of the slope with live stakes of native tree species driven into the bank for further stability. Gabion baskets are necessary to prevent the high velocities of water from eroding the planted buffer during establishment stages and to maintain designed slopes. The proposed actions will not cause substantial detriment to the public good or impair the purpose and intent of the zoning code. The stream will retain access to its natural floodplain. Establishment of a vegetated buffer will provide ecosystem services which include habitat for aquatic and terrestrial species and shade while improving the health and stability of the stream. Please see site photos included below:

Please feel free to contact me with any questions or concerns at brian@carterengineering.net or at 770-725-1200.

Sincerely,

A handwritten signature in black ink that reads 'J. Brian Kimsey'.

J. Brian Kimsey. P.E.
Carter Engineering Consultants, Inc.



Picture 1: Eroded Streambank



Picture 2: Eroded Streambank



Picture 3: Sinkhole In Backyard



Picture 4: Streambank at Fence

Design Report For Agarwal Residence

115 Lambdin Ln
Alpharetta, GA 30022
(Parcel No. 11017200951037)

Prepared By:
Carter Engineering Consultants
1010 Commerce Drive
Bogart, GA 30622

February 2024



Table of Contents

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Conclusion and Recommendations	5
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Introduction

Project Description

The subject site is located in Fulton County, approximately 0.8 miles west of the intersection of Jones Bridge Rd and Morton Rd, near the city of Alpharetta, GA. The site is located at 115 Lambdin lane. (See Location Map Below)



Location Map

The property is owned by Sameer and Divya Agarwal. The northwestern portion of the property borders an unnamed tributary contributing to Long Indian Creek.

Over the years, the unnamed tributary has eroded a significant portion of the property as a result of fluctuating creek levels from large storm events. This erosion has resulted in a significant amount of property loss. The erosion currently is approaching the foundation of the existing residence. The property owner is concerned that the erosion will begin to encroach closer to the foundation of the residence if left untreated.

The property owner is proposing to stabilize the streambank utilizing gabion baskets. The gabion baskets will line the original toe of the streambank. The owner will backfill the area to the gabion baskets to reclaim the area that has eroded stabilizing the upper slope with live stakes and erosion control material. The gabion baskets will prevent future streambank erosion,

ensuring the structural integrity of the residence. Due to the nature of this project, the work must be performed within the 25 feet state waters buffer. The existing and proposed conditions of the subject site are shown in the conclusion of this report.

Methodology

The following project analysis provides the design calculations required to compare the elevation through the stream of the original streambank and the proposed streambank at the points of study. Cross sections at two points along the section of stream being repaired were the points of study.

The study was performed using the SCS method to produce the hydrograph of the watershed. This hydrograph was routed through the channel and the elevation in the channel was recorded for the flow of 125 cfs. The elevations of the channel before and after the addition of the gabion baskets was compared to evaluate the effect.

Site Pictures

The following pictures were taken at the Agarwal residence to show the condition of the streambank.



Picture 1: Eroded Streambank



Picture 2: Eroded Streambank



Picture 3: Sinkhole In Backyard

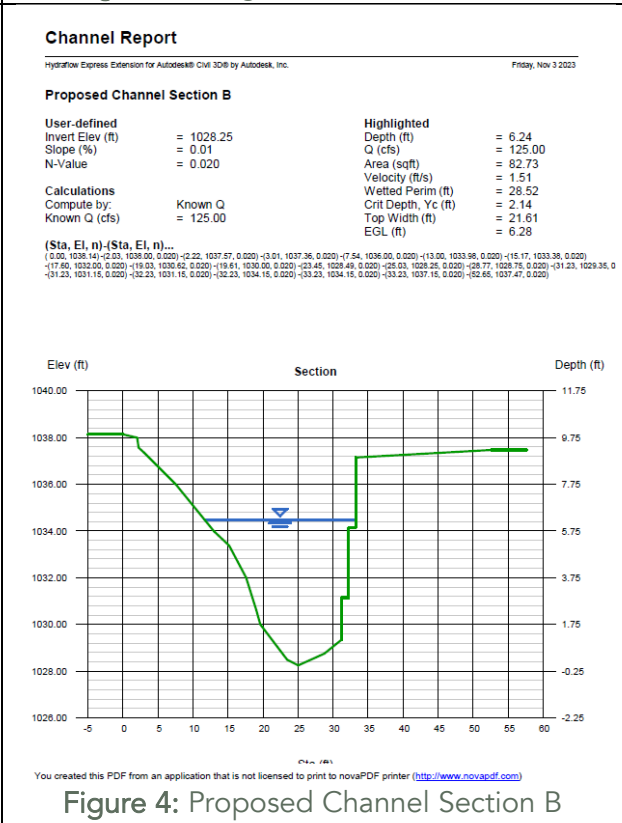
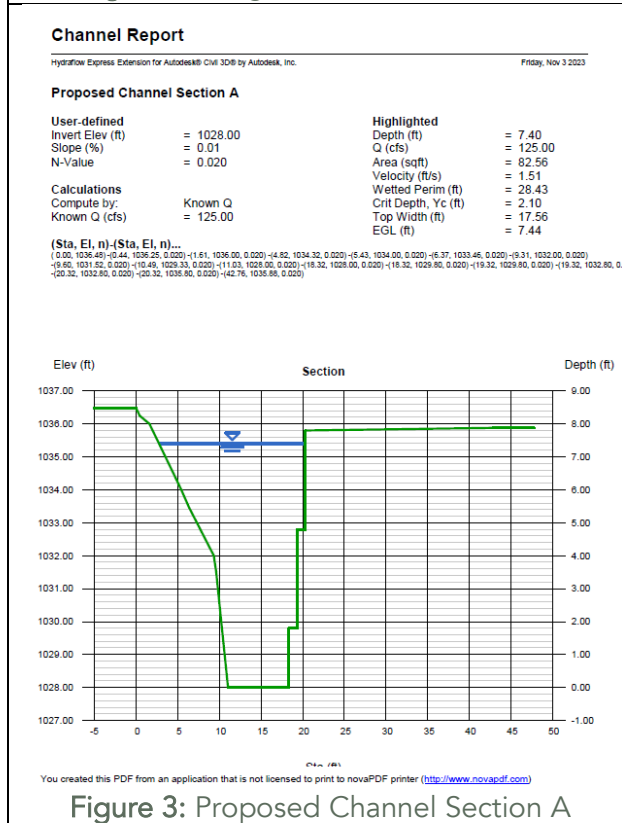
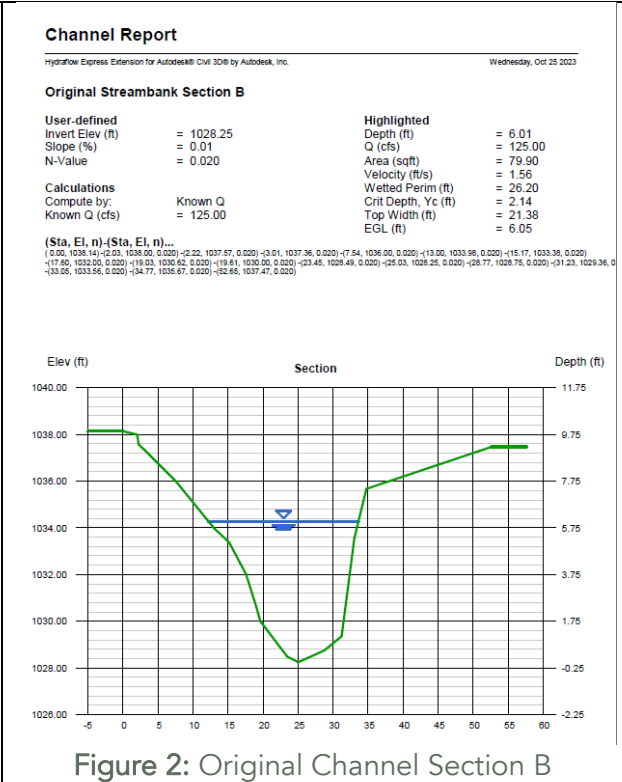
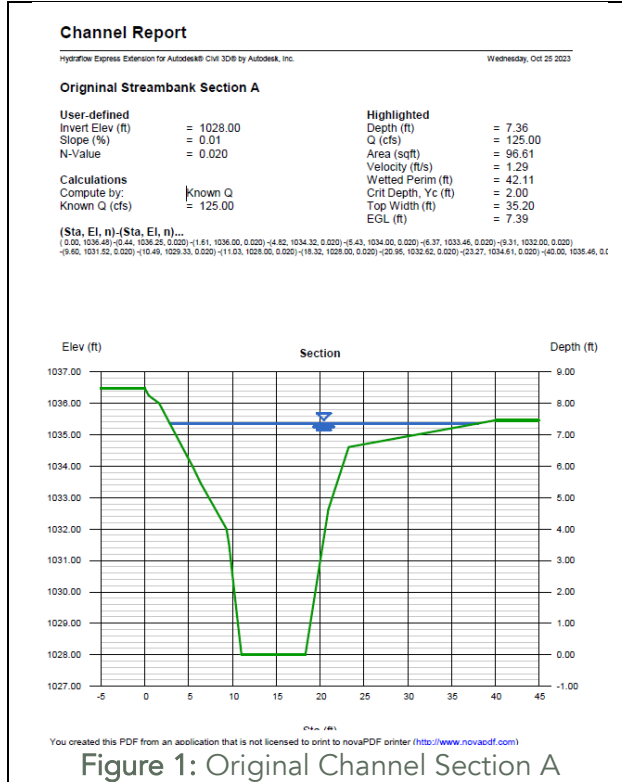


Picture 4: Streambank at Fence

Conclusion and Recommendations

This project involves construction that, by its nature, must be located within the stream buffer. The project results in the restoration and enhancement of a section of stream that will improve water quality by eliminating streambank erosion from large storm events. Live stakes will help to reestablish a vegetative buffer along the eroded stream segment.

The placement of gabion baskets at the toe of the streambank has a minimal impact on the elevation in the channel. Thus, no adverse effects to the floodplain are expected because of the gabion baskets. The change in elevation from the gabion baskets is shown below.



During construction, the environmental impacts will be minimal. A small amount of sediment could potentially travel downstream during the placement of the gabion baskets. Once the gabion baskets and geotextile are installed, the placement of fill to reconstruct the streambank will be filtered by the barrier created by the geotextile and gabion baskets. The placement of the gabion baskets will not protrude into the original stream; therefore, flow characteristics of the stream will not be altered. Live stakes of native tree species will be placed on 3-foot centers between rows of the gabion baskets following USACE guidelines for streambank and lakeshore stabilization. This will help to reestablish a vegetative buffer on the stream bank providing stability and shade to the channel.

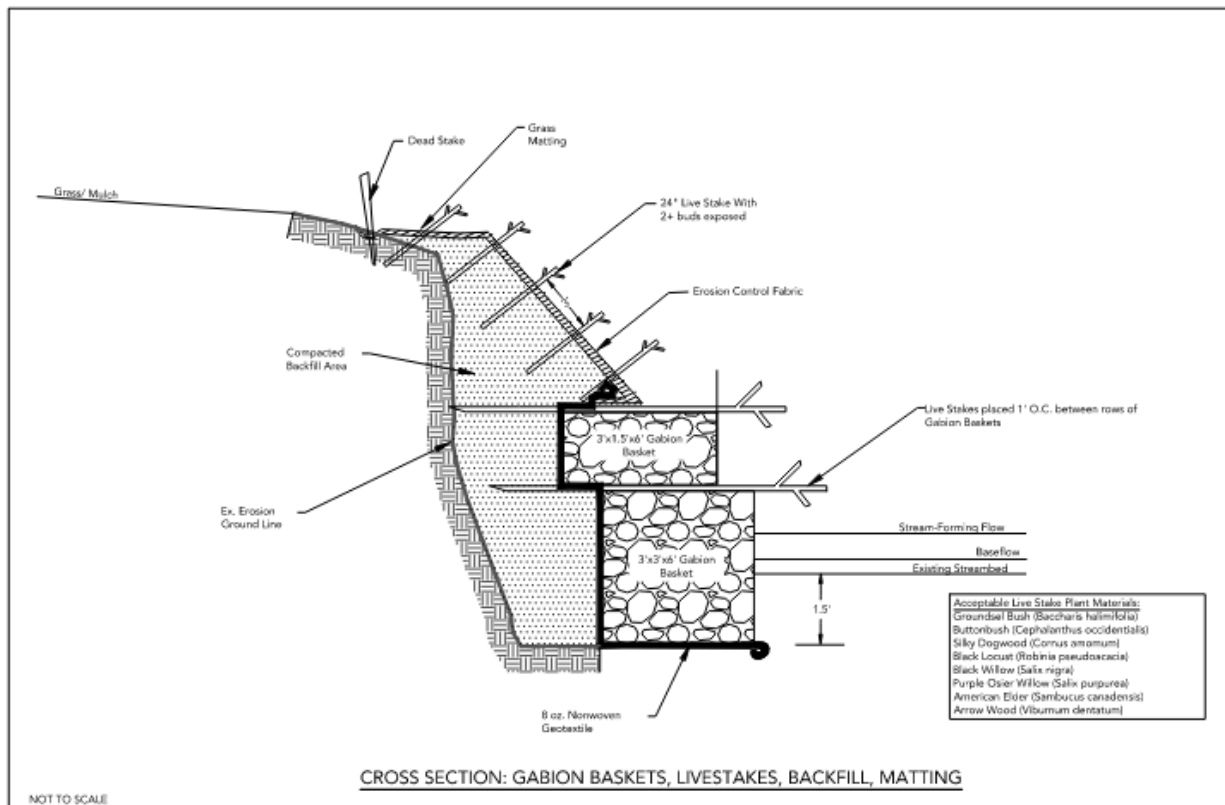


Figure 5: Live Stakes Detail

APPENDIX

SITE LOCATION

34.22978°
-84.142773°

SITE INFORMATION

WATERSHED AREA = 89.04 AC
CN = 70.1



LOCATION MAP

1 inch = 417 feet

AGARWAL RESIDNECE
CITY OF ALPHARETTA
FULTON COUNTY, GA

PROJECT CONSULTANTS AND CONTACT INFORMATION

OWNER / DEVELOPER
 SAMEER & DIVYA AGARWAL
 115 LAMBDIN LANE
 ALPHARETTA, GA 30022
 CONTACT: 203-919-3188
 24-HOUR CONTACT: DIVYA AGARWAL
 AGARWAL.FMLY@GMAIL.COM

CIVIL ENGINEER
 CARTER ENGINEERING CONSULTANTS, INC.
 1010 COMMERCE DRIVE
 BOGART, GA 30622
 CONTACT: 770.725.1204
 BRIAN KIMSEY
 BRIAN@CARTERENGINEERING.COM

SURVEYOR
 CARTER ENGINEERING CONSULTANTS, INC.
 1010 COMMERCE DRIVE
 BOGART, GA 30622
 CONTACT: 770.725.1200
 MICHAEL FOLEY, GA #3346

CITY OF ALPHARETTA NOTES

- NARRATIVE: THE PURPOSE OF THIS PROJECT IS TO STABILIZE THE STREAMBANK AT A RESIDENTIAL LOT.
- PERCENT IMPERVIOUS OF PROJECT AREA: 37%
- THIS PROJECT IS LOCATED WITHIN FEMA FIRM NUMBER 13121C0086F DATED 09/18/2013. THE SHADED ZONE X REFLECTS AREAS OF 1% ANNUAL CHANCE FLOOD WITH DRAINAGE AREA LESS THAN 1 SQUARE MILE.
- SURVEY COMPLETED BY CARTER ENGINEERING CONSULTANTS IN 9/2023.
- THERE ARE NO FLOODPLAINS LOCATED ON THE PROJECT SITE

UTILITY CONTACTS

NAME	PROVIDER	PHONE NUMBER
SEWER	FULTON COUNTY	(404) 612-3061
WATER	FULTON COUNTY	(770) 640-3040
ELECTRICAL	GEORGIA POWER	(888) 891-0938
INTERNET / TELEPHONE	UNKNOWN	UNKNOWN

STREAMBANK STABILIZATION PLANS FOR AGARWAL RESIDENCE

PROJECT LOCATION

115 LAMBDIN LANE
 ALPHARETTA, GA 30022

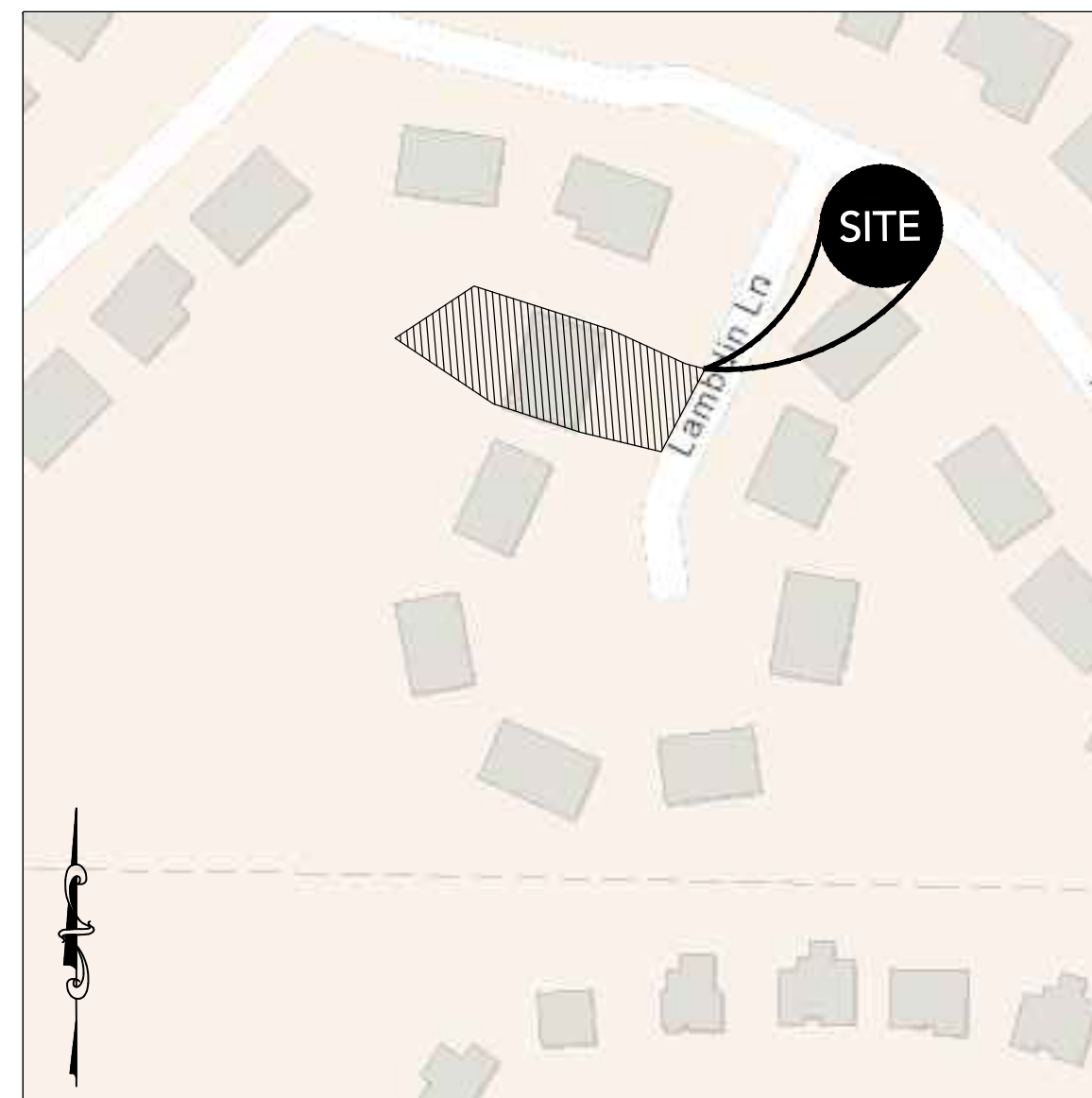
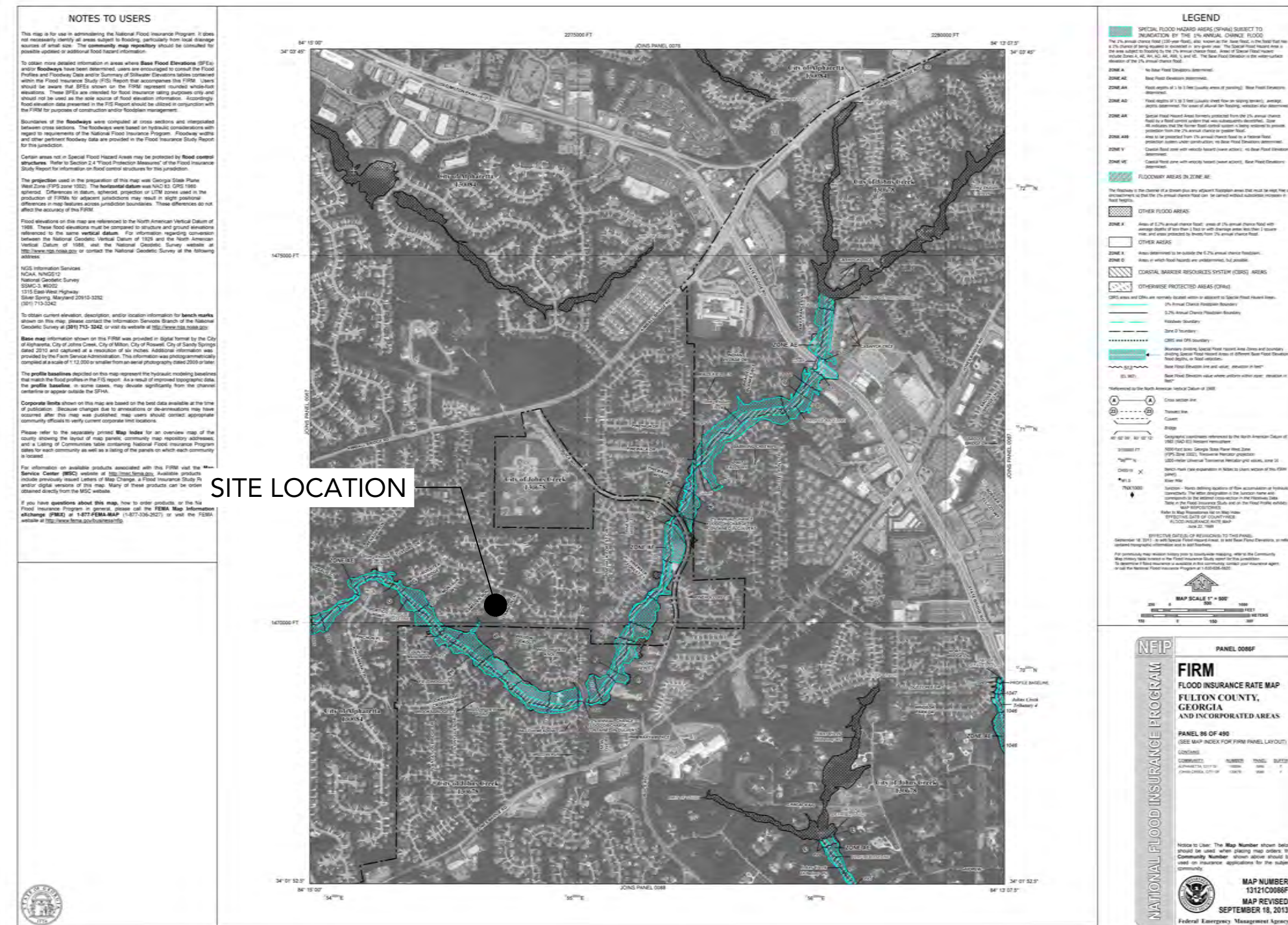
CONSTRUCTION ENTRANCE

34.22978 NORTH
 -84.142773 WEST

PARCEL ID NUMBER

11017200951037

PROJECT TRACT 0.2837 ACRES | DISTURBED AREA 0.1 ACRES



SITE LOCATION MAP NOT TO SCALE

SITE DESIGN & ENGINEERING SHEET INDEX

SHEET NUMBER	SHEET TITLE
C 1.0	COVER SHEET
C 2.0	GENERAL NOTES
C 3.0	EXISTING SITE PLAN
C 4.0	PROPOSED SITE PLAN
C 4.1	CROSS SECTION PROFILES
C 4.2	CHANNEL REPORT
C 4.3	STANDARD DETAILS
C 5.0	E&SC NOTES
C 5.1	E&SC PLAN
C 5.2	E&SC DETAILS
C 6.0	TREE PROTECTION PLAN

REVISION BLOCK

REVISION NUMBER	REVISION DATE & DESCRIPTION
ISSUE 1	11.08.23 - INITIAL SUBMITTAL
ISSUE 2	2.29.24
ISSUE 3	----
ISSUE 4	----
ISSUE 5	----
ISSUE 6	----
ISSUE 7	----
ISSUE 8	----
ISSUE 9	----
ISSUE 10	----

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GENERAL PLAN SET NOTES

- THE ENGINEER IS NOT RESPONSIBLE FOR COST CHANGES DURING CONCEPTUAL, PRELIMINARY, OR DESIGN PHASE.
- BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR BID" ON THE REVISION BLOCK.
- BIDS & QUOTES SHALL BE REVISED BASED ON PLANS LABELED "ISSUE FOR CONSTRUCTION" ON THE REVISION BLOCK.
- IF DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE DEVIATION FROM THIS PLAN SET, THE ENGINEER SHOULD BE NOTIFIED FOR UPDATED PLANS AND/ OR FIELD CHANGES.
- THE ENGINEER IS NOT RESPONSIBLE FOR DESIGN OR CONSTRUCTION COST ASSOCIATED WITH FIELD CHANGES OR DEVIATION FROM THIS PLAN SET DUE TO UNFORESEEN SITE CONDITIONS, CLIENT MODIFICATION REQUEST AND/ OR CONTRACTOR CHANGES.
- THE ENGINEER IS NOT RESPONSIBLE FOR THE EFFICACY OF FIELD CHANGES OR DEVIATION FROM THIS PLAN SET IN ANYWAY, UNLESS CHANGES ARE DIRECTED BY THE ENGINEER.

DESIGN BENCHMARK 50% DD OWNER REVIEW
 DRAWING STATUS NOT FOR CONSTRUCTION



CARTER ENGINEERING
 3651 MARS HILL ROAD
 SUITE 2000
 WATKINSVILLE, GA 30677
 P: 770.725.1200
 F: 770.725.1204
 www.carterengineering.com



SITE DEVELOPMENT PLANS FOR AGARWAL RESIDENCE 115 LAMBDIN LANE - ALPHARETTA, GA 30022

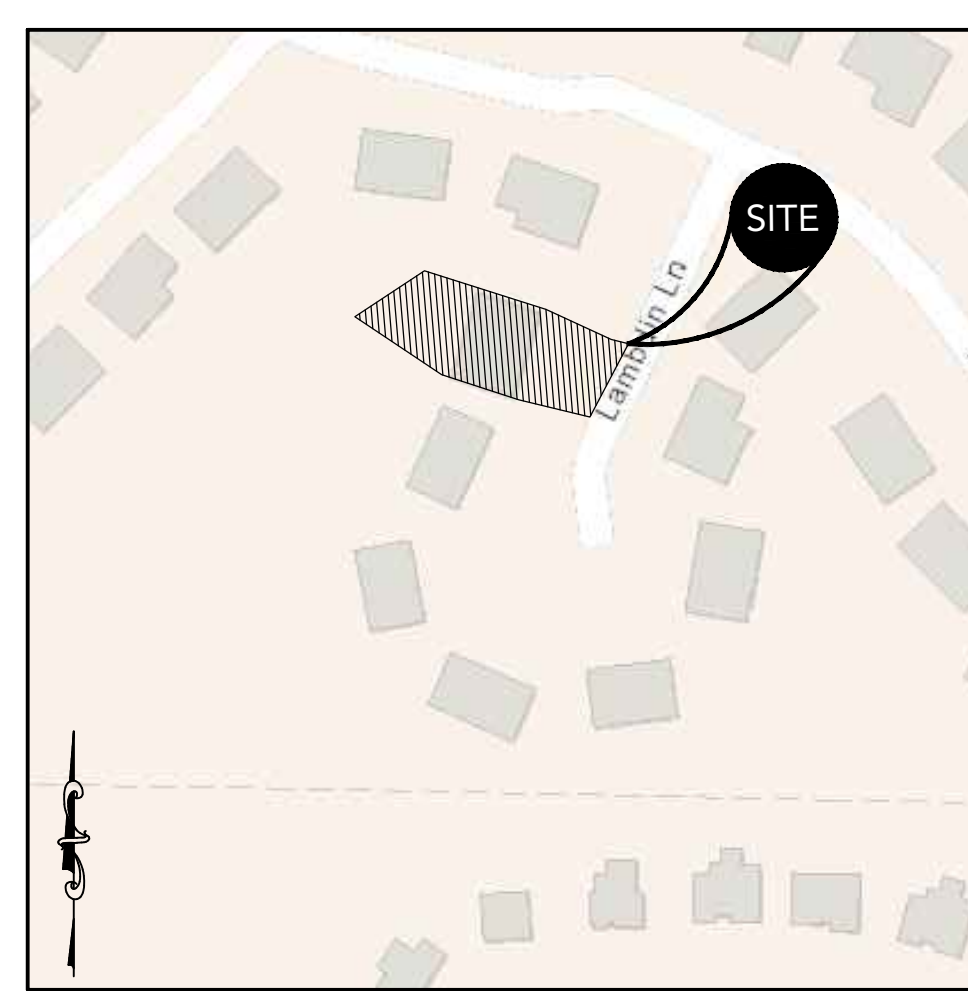
SHEET TITLE: COVER

SHEET NUMBER: C 1.0

PROJECT NUMBER: 23001SDA

DATE: 2/29/24

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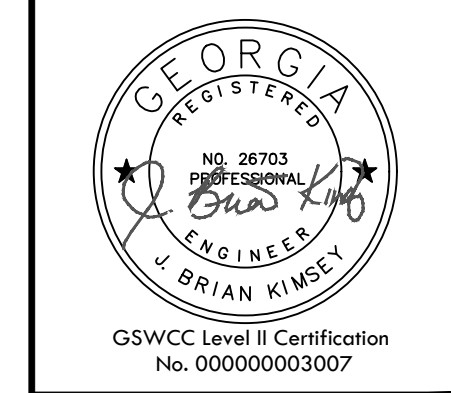
LOCATION MAP
SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY PHONE: 770.725.1204 BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: SAMEER & DIVYA AGARWAL 115 LAMBDIN LANE ALPHARETTA, GA 30022 CONTACT: DIVYA AGARWAL 203-919-3188 AGARWAL.FMLY@GMAIL.COM

SITE INFORMATION	
JURISDICTION	CITY OF ALPHARETTA
PROPERTY LOCATION	115 LAMBDIN LANE ALPHARETTA, GA 30022
PARCEL NUMBER	11017200951037
CURRENT ZONING	R3
PROPOSED ZONING	R3
OVERLAY DISTRICT	NONE
EXISTING USE	RESIDENTIAL
PROPOSED USE	RESIDENTIAL
BUFFERS REQUIRED	N/A
REQUIRED BUILDING SETBACKS	FRONT: N/A SIDE: N/A REAR: N/A
MAXIMUM LOT COVERAGE	N/A%
MINIMUM LANDSCAPE	N/A%
MAXIMUM BUILDING HEIGHT	N/A
SANITARY SEWER SERVICE	N/A
WATER SERVICE	N/A
FEMA FLOOD INSURANCE RATE MAP NO.	13121C0086F
FEMA FIRM DATE	09/18/2013
FEMA SFHA ZONE	X

UNDERGROUND UTILITY DISCLAIMER:
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REVISION BLOCK	
ISSUE	REVISION DATE & DESCRIPTION
1	11.08.23 - INITIAL SUBMITTAL
2	2.29.24
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CARTER ENGINEERING

CARTER ENGINEERING
3651 MARS HILL ROAD
SUITE 2000
WATKINSVILLE, GA 30677
P: 770.725.1200
F: 770.725.1204
www.carterengineering.com

SITE DEVELOPMENT PLANS
FOR
AGARWAL RESIDENCE
115 LAMBDIN LANE - ALPHARETTA, GA 30022

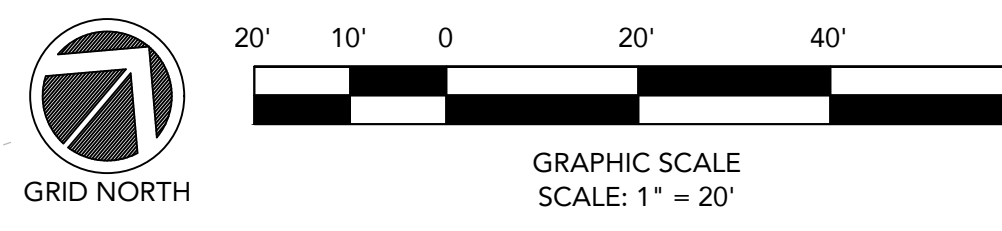
SHEET TITLE:
EXISTING SITE PLAN

PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
C 3.0

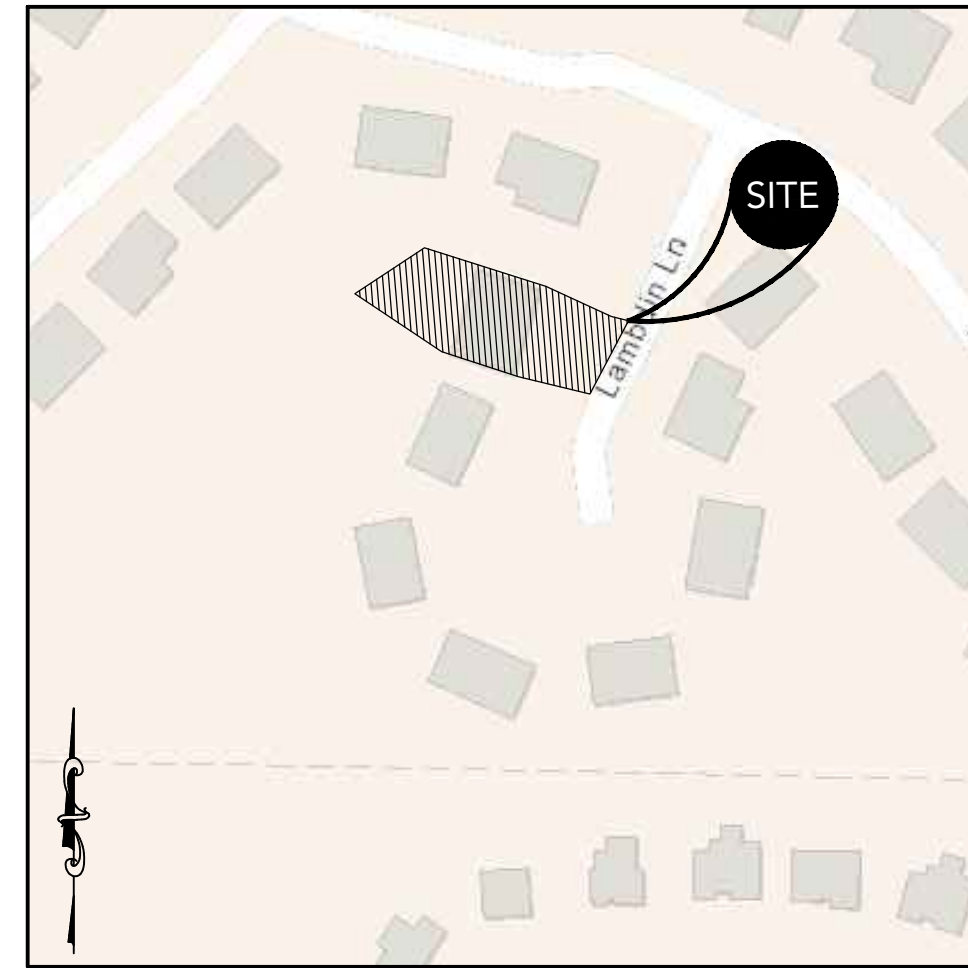
PROJECT NUMBER:
23001SDA

DATE:
2/29/24



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LOCATION MAP
SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY PHONE: 770.725.1204 BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: SAMEER & DIVYA AGARWAL 115 LAMBDIN LANE ALPHARETTA, GA 30022 CONTACT: DIVYA AGARWAL 203-919-3188 AGARWAL.FMLY@GMAIL.COM

SITE INFORMATION	
JURISDICTION	CITY OF ALPHARETTA
PROPERTY LOCATION	115 LAMBDIN LANE ALPHARETTA, GA 30022
PARCEL NUMBER	11017200951037
CURRENT ZONING	R3
PROPOSED ZONING	R3
OVERLAY DISTRICT	NONE
EXISTING USE	RESIDENTIAL
PROPOSED USE	RESIDENTIAL
BUFFERS REQUIRED	N/A
REQUIRED BUILDING SETBACKS	FRONT: N/A SIDE: N/A REAR: N/A
MAXIMUM LOT COVERAGE	N/A%
MINIMUM LANDSCAPE	N/A%
MAXIMUM BUILDING HEIGHT	N/A
SANITARY SEWER SERVICE	N/A
WATER SERVICE	N/A
FEMA FLOOD INSURANCE RATE MAP NO.	13121C0086F
FEMA FIRM DATE	09/18/2013
FEMA SFHA ZONE	X

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SITE DEVELOPMENT PLANS
FOR
AGARWAL RESIDENCE
115 LAMBDIN LANE - ALPHARETTA, GA 30022

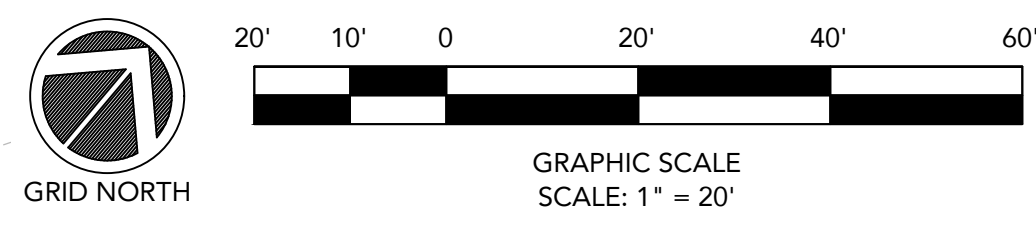
SHEET TITLE:
PROPOSED SITE PLAN

PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
C 4.0

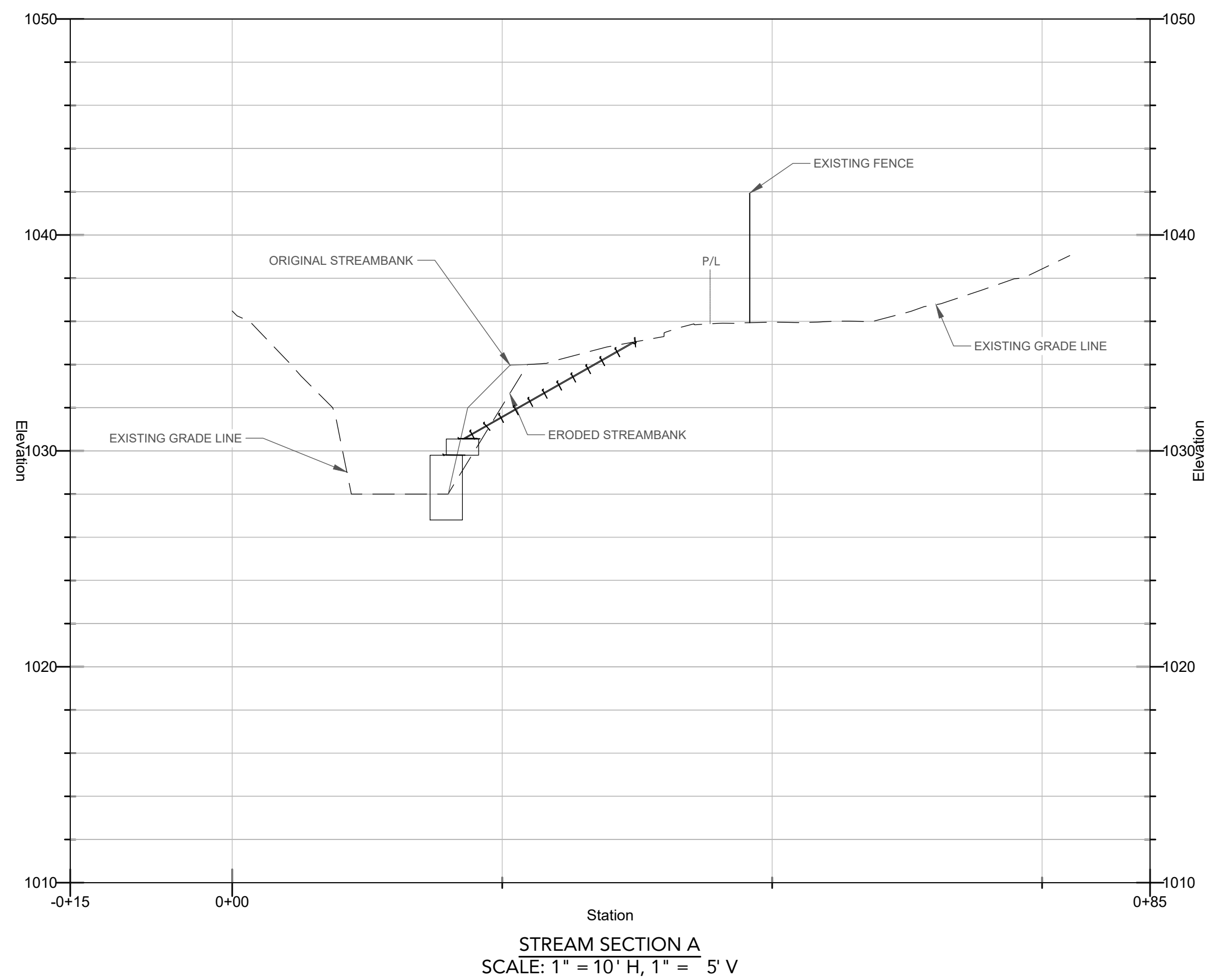
PROJECT NUMBER:
23001SDA

DATE:
2/29/24

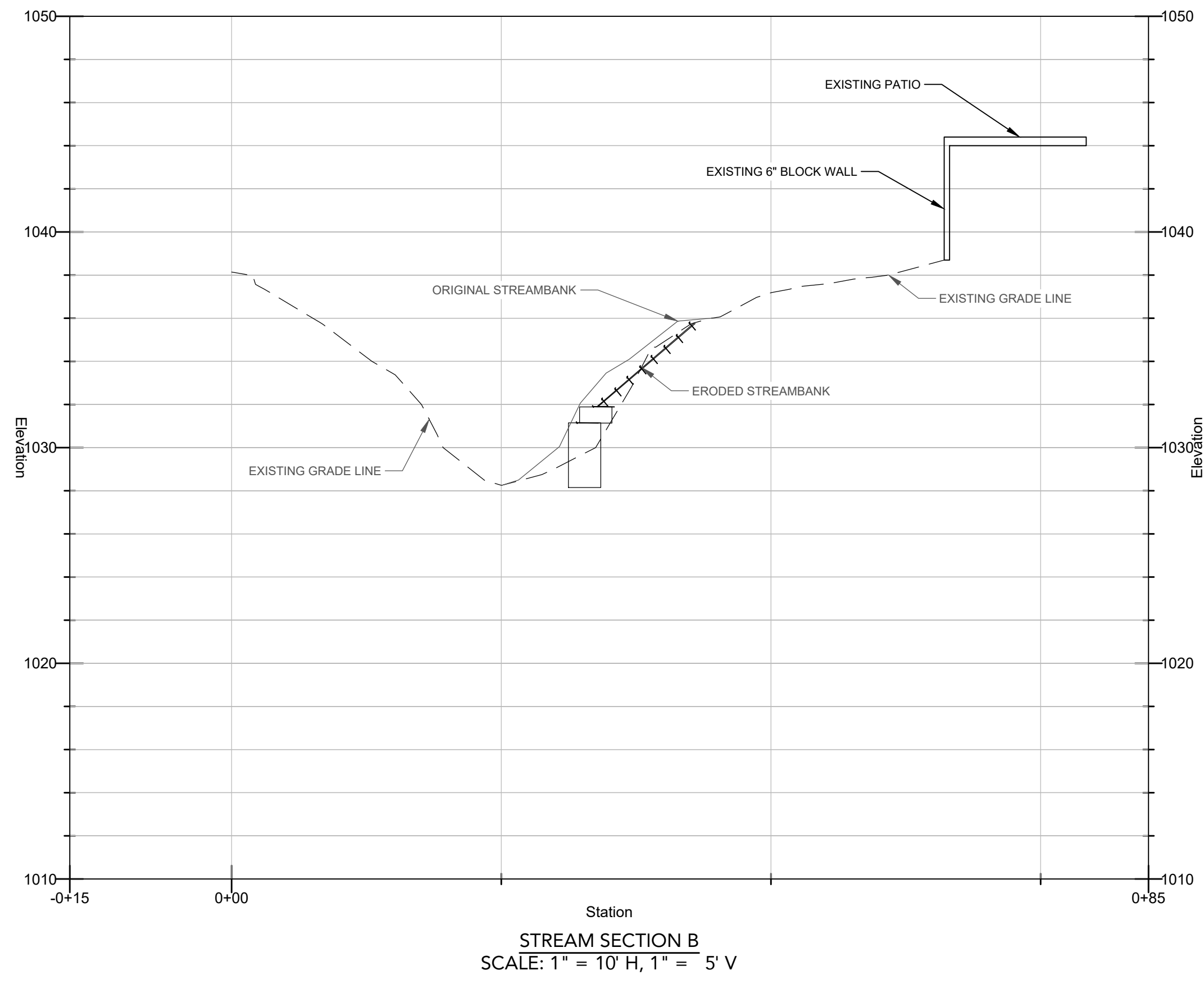


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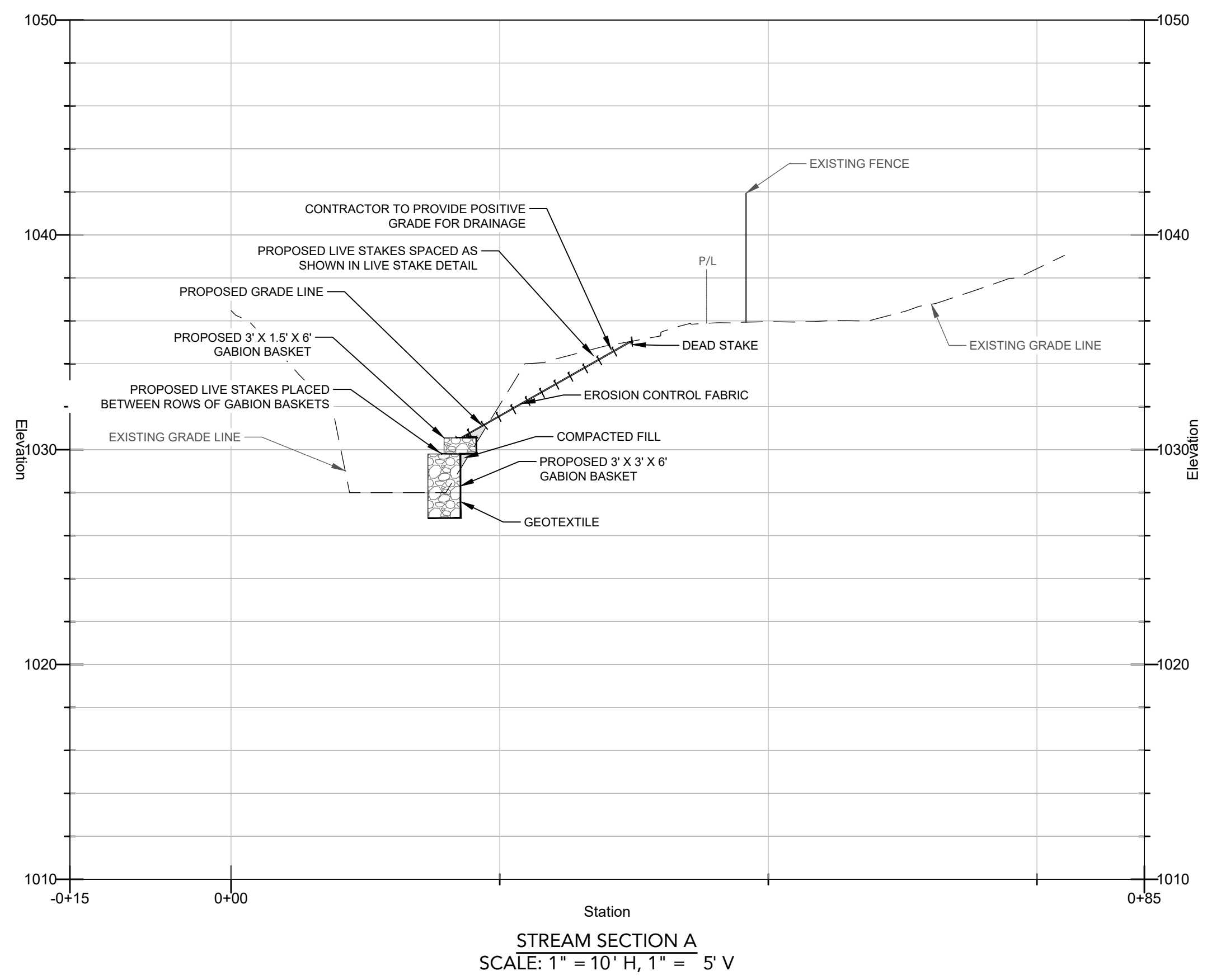
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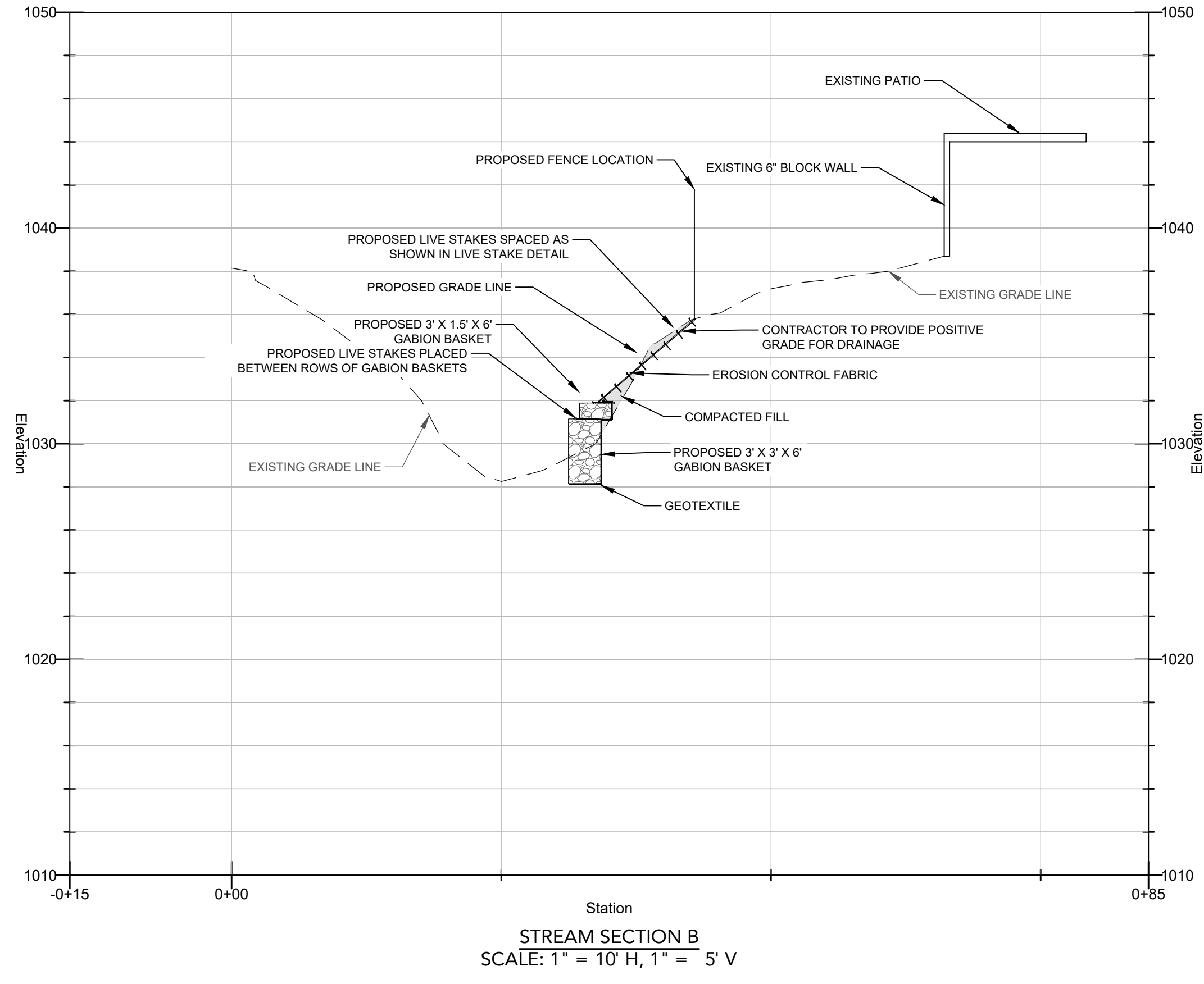
STREAM SECTION A
SCALE: 1" = 10' H, 1" = 5' V



STREAM SECTION B
SCALE: 1" = 10' H, 1" = 5' V



STREAM SECTION A
SCALE: 1" = 10' H, 1" = 5' V



STREAM SECTION B
SCALE: 1" = 10' H, 1" = 5' V

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SITE DEVELOPMENT PLANS
FOR
AGARWAL RESIDENCE
115 LAMBDIN LANE - ALPHARETTA, GA 30022

SHEET TITLE:
CROSS SECTION PROFILES

PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
C 4.1

PROJECT NUMBER:
23001SDA

DATE:
2/29/24

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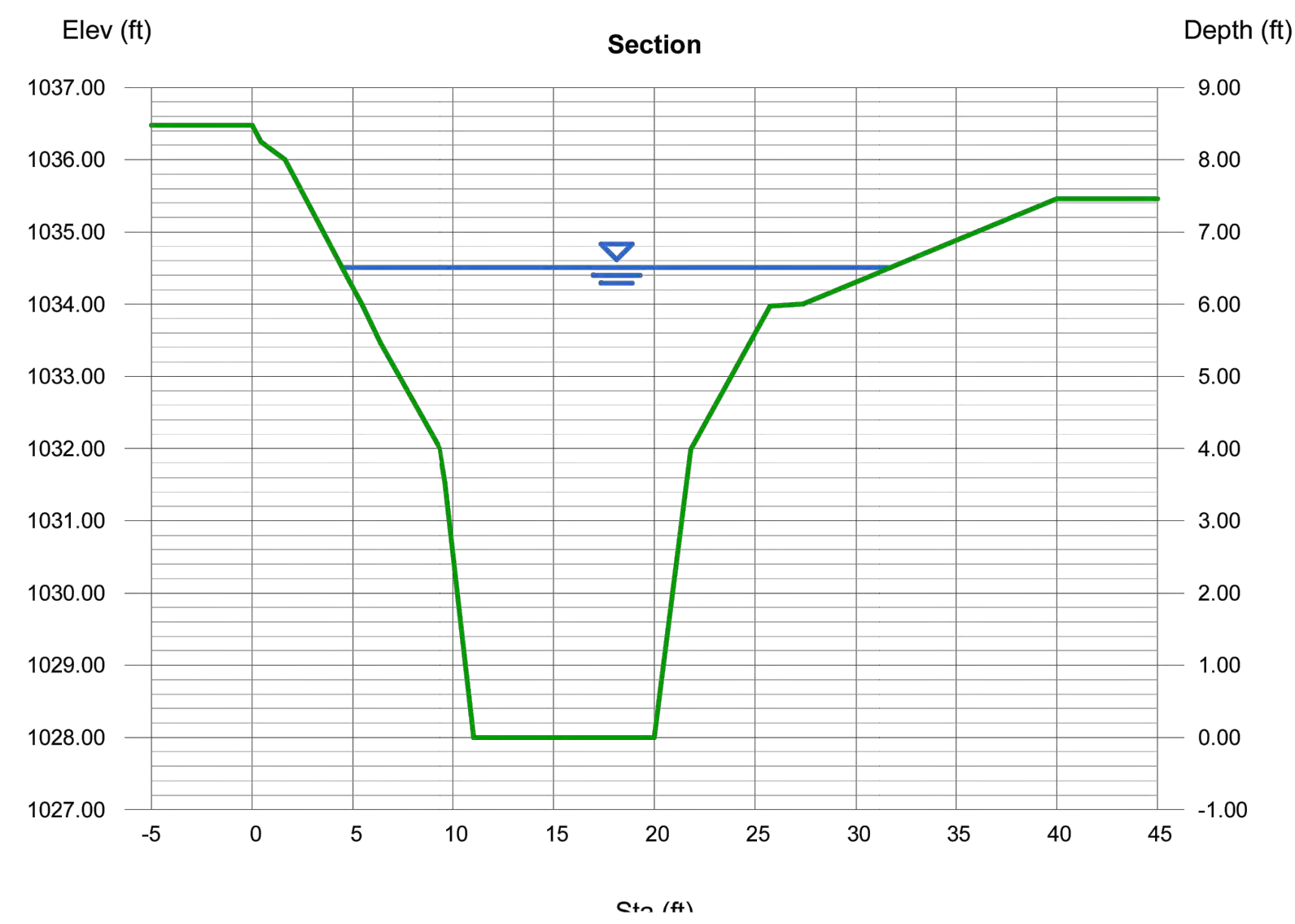
Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Jan 15 2024

Original Streambank Section A

User-defined		Highlighted	
Invert Elev (ft)	= 1028.00	Depth (ft)	= 6.51
Slope (%)	= 0.01	Q (cfs)	= 125.00
N-Value	= 0.020	Area (sqft)	= 88.32
		Velocity (ft/s)	= 1.42
		Wetted Perim (ft)	= 33.65
Calculations		Crit Depth, Yc (ft)	= 1.77
Compute by:	Known Q	Top Width (ft)	= 27.32
Known Q (cfs)	= 125.00	EGL (ft)	= 6.54

(Sta, El, n)-(Sta, El, n)...
 (0.00, 1036.48) (-0.44, 1036.25, 0.020) (-1.61, 1036.00, 0.020) (-4.82, 1034.32, 0.020) (-5.43, 1034.00, 0.020) (-6.37, 1033.46, 0.020) (-9.31, 1032.00, 0.020)
 (-9.60, 1031.52, 0.020) (-10.49, 1029.33, 0.020) (-11.03, 1028.00, 0.020) (-18.32, 1028.00, 0.020) (-20.00, 1028.00, 0.020) (-21.80, 1031.99, 0.020) (-25.73, 1033.97, 0.020)
 (-27.36, 1034.00, 0.020) (-40.00, 1035.46, 0.020)



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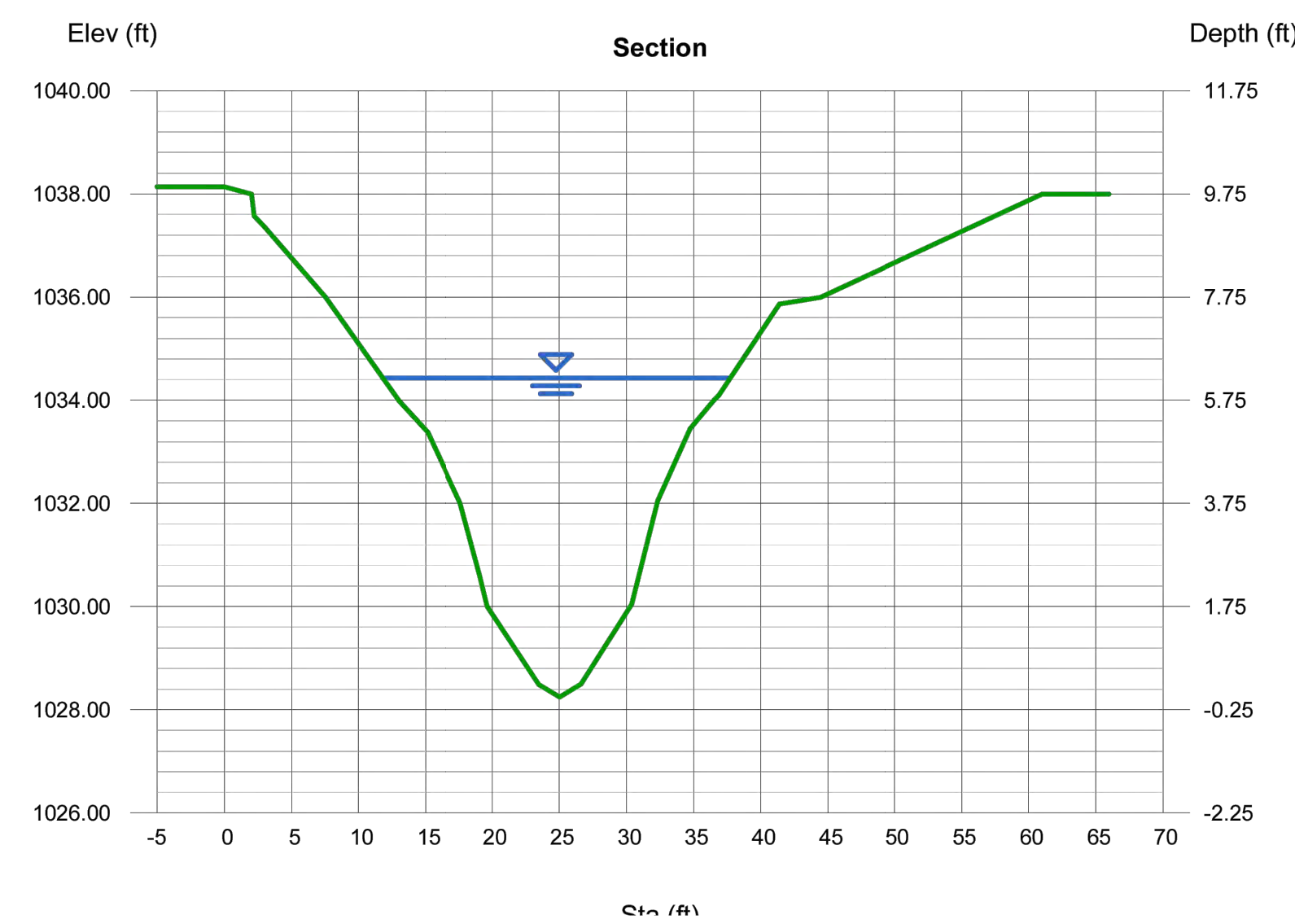
Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Jan 15 2024

Original Streambank Section B

User-defined		Highlighted	
Invert Elev (ft)	= 1028.25	Depth (ft)	= 6.18
Slope (%)	= 0.01	Q (cfs)	= 125.00
N-Value	= 0.020	Area (sqft)	= 83.63
		Velocity (ft/s)	= 1.49
		Wetted Perim (ft)	= 29.29
Calculations		Crit Depth, Yc (ft)	= 2.39
Compute by:	Known Q	Top Width (ft)	= 25.92
Known Q (cfs)	= 125.00	EGL (ft)	= 6.21

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 (-17.60, 1032.00, 0.020) (-19.03, 1030.62, 0.020) (-19.61, 1030.00, 0.020) (-23.45, 1028.49, 0.020) (-25.03, 1028.25, 0.020) (-26.60, 1028.50, 0.020) (-30.39, 1030.04, 0.020)
 (-32.33, 1032.06, 0.020) (-34.72, 1033.45, 0.020) (-36.54, 1034.00, 0.020) (-36.86, 1034.10, 0.020) (-41.37, 1035.86, 0.020) (-44.44, 1036.00, 0.020) (-60.99, 1038.00, 0.020)



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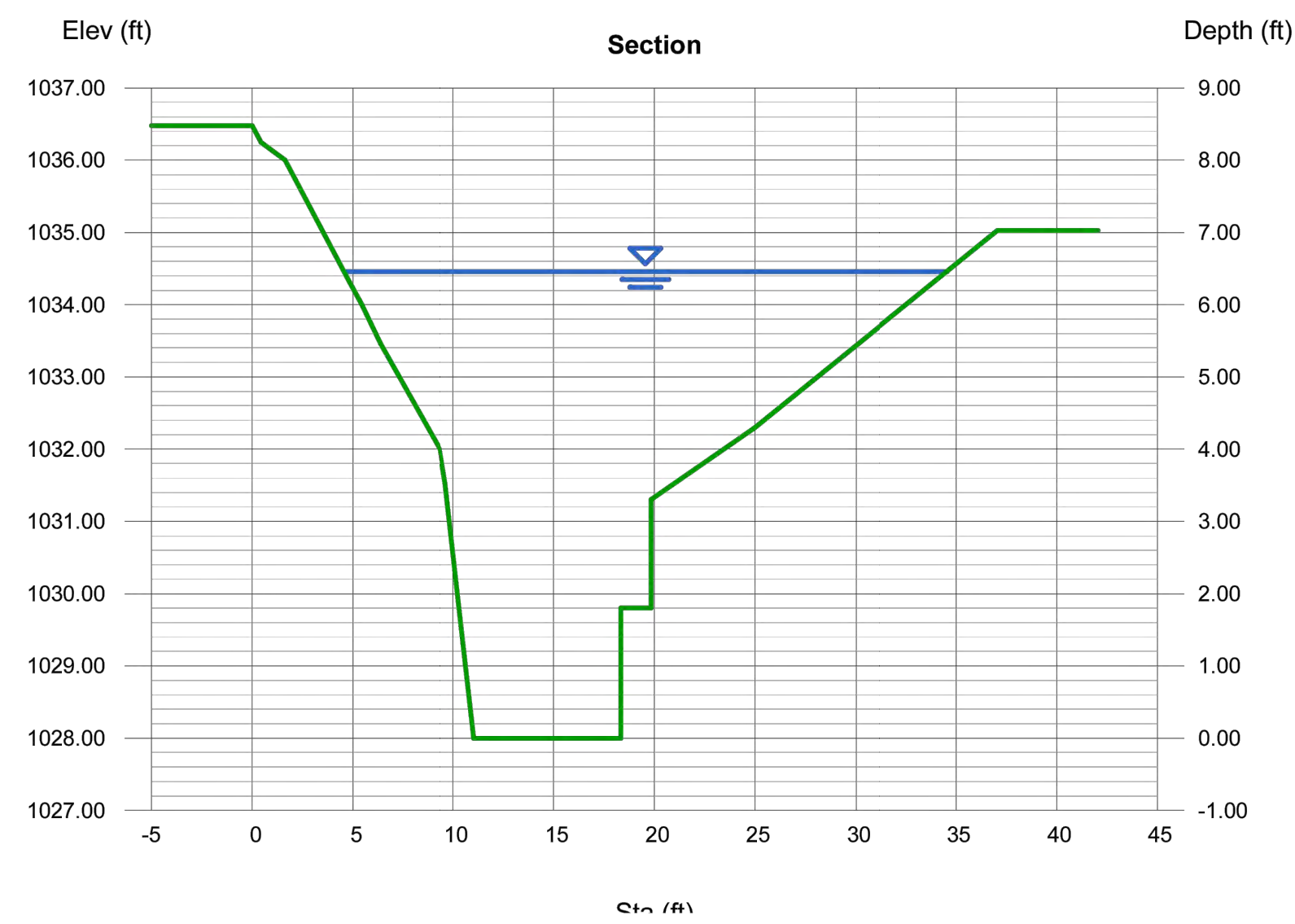
Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Feb 14 2024

Proposed Streambank Section A

User-defined		Highlighted	
Invert Elev (ft)	= 1028.00	Depth (ft)	= 6.46
Slope (%)	= 0.01	Q (cfs)	= 125.00
N-Value	= 0.020	Area (sqft)	= 91.67
		Velocity (ft/s)	= 1.36
		Wetted Perim (ft)	= 36.88
Calculations		Crit Depth, Yc (ft)	= 2.11
Compute by:	Known Q	Top Width (ft)	= 30.01
Known Q (cfs)	= 125.00	EGL (ft)	= 6.49

(Sta, El, n)-(Sta, El, n)...
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 (-9.60, 1031.52, 0.020) (-10.49, 1029.33, 0.020) (-11.03, 1028.00, 0.020) (-18.32, 1028.00, 0.020) (-18.32, 1029.80, 0.020) (-19.82, 1029.80, 0.020) (-19.82, 1031.30, 0.020)
 (-25.00, 1032.30, 0.020) (-37.07, 1035.03, 0.020)



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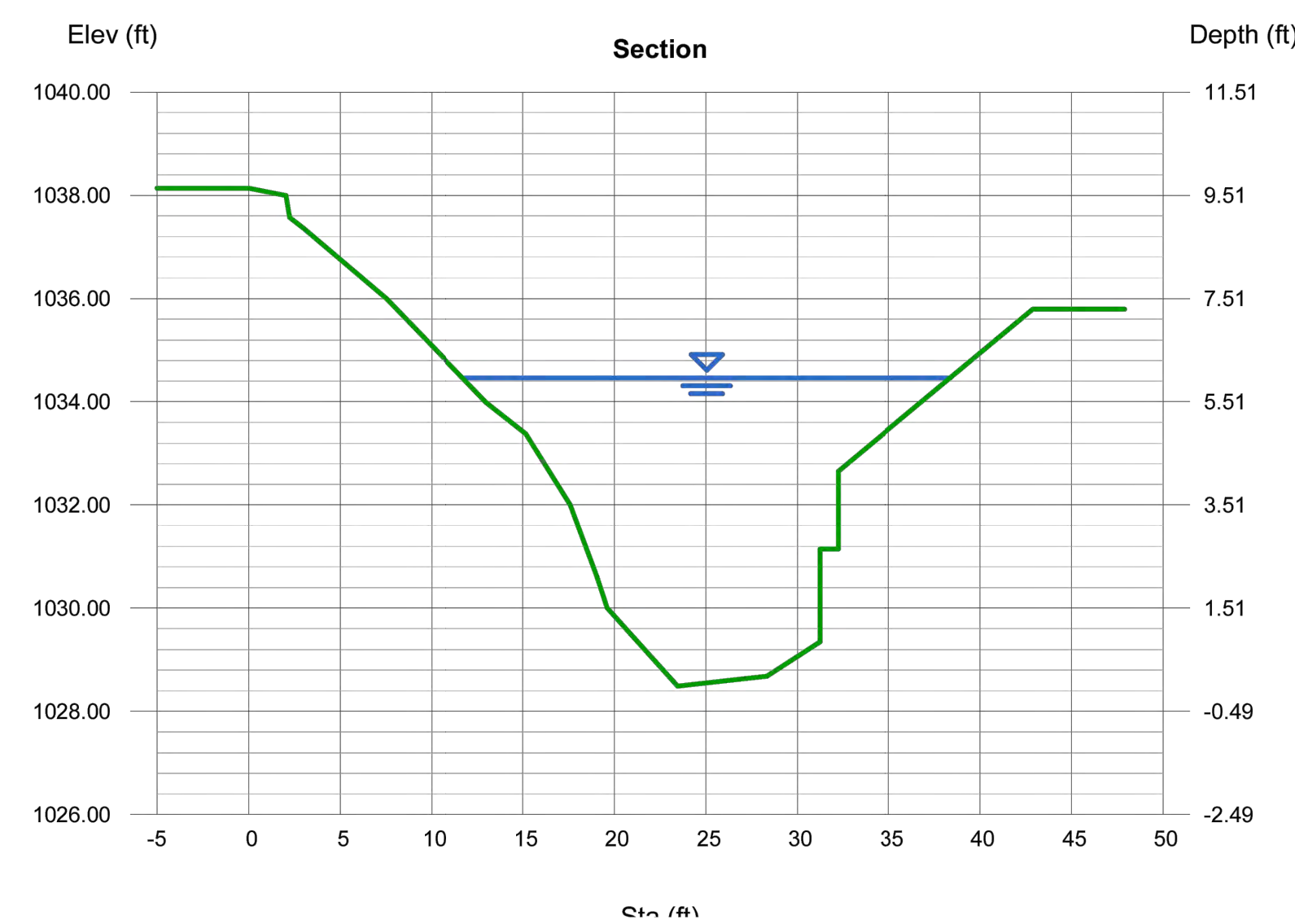
Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Feb 14 2024

Proposed Streambank Section B

User-defined		Highlighted	
Invert Elev (ft)	= 1028.49	Depth (ft)	= 5.97
Slope (%)	= 0.01	Q (cfs)	= 125.00
N-Value	= 0.020	Area (sqft)	= 86.58
		Velocity (ft/s)	= 1.44
		Wetted Perim (ft)	= 31.97
Calculations		Crit Depth, Yc (ft)	= 1.97
Compute by:	Known Q	Top Width (ft)	= 26.69
Known Q (cfs)	= 125.00	EGL (ft)	= 6.00

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 3651 MARS HILL ROAD
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SITE DEVELOPMENT PLANS
 FOR
AGARWAL RESIDENCE
 115 LAMBDA LANE - ALPHARETTA, GA 30022

SHEET TITLE:
CHANNEL REPORT

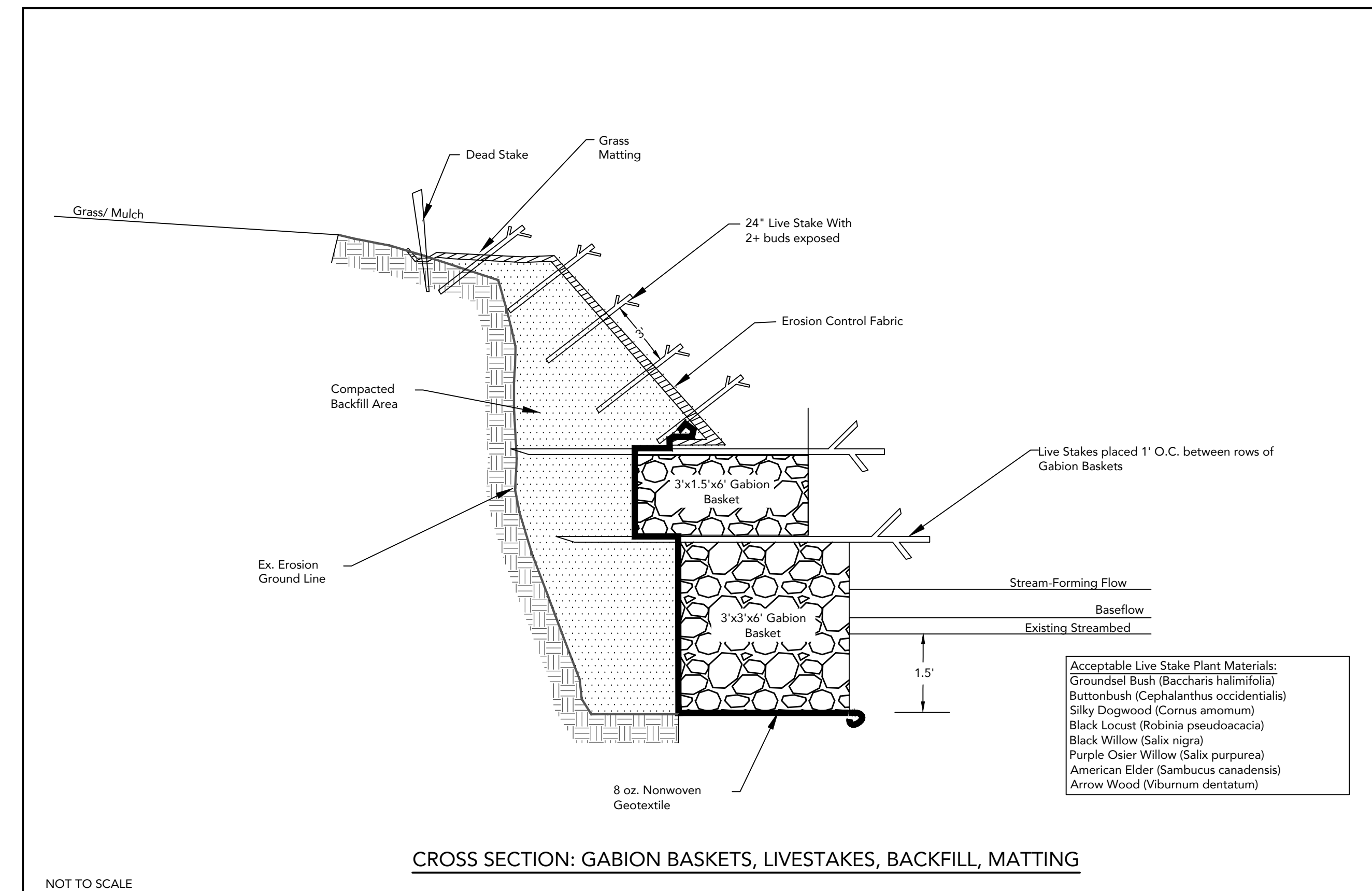
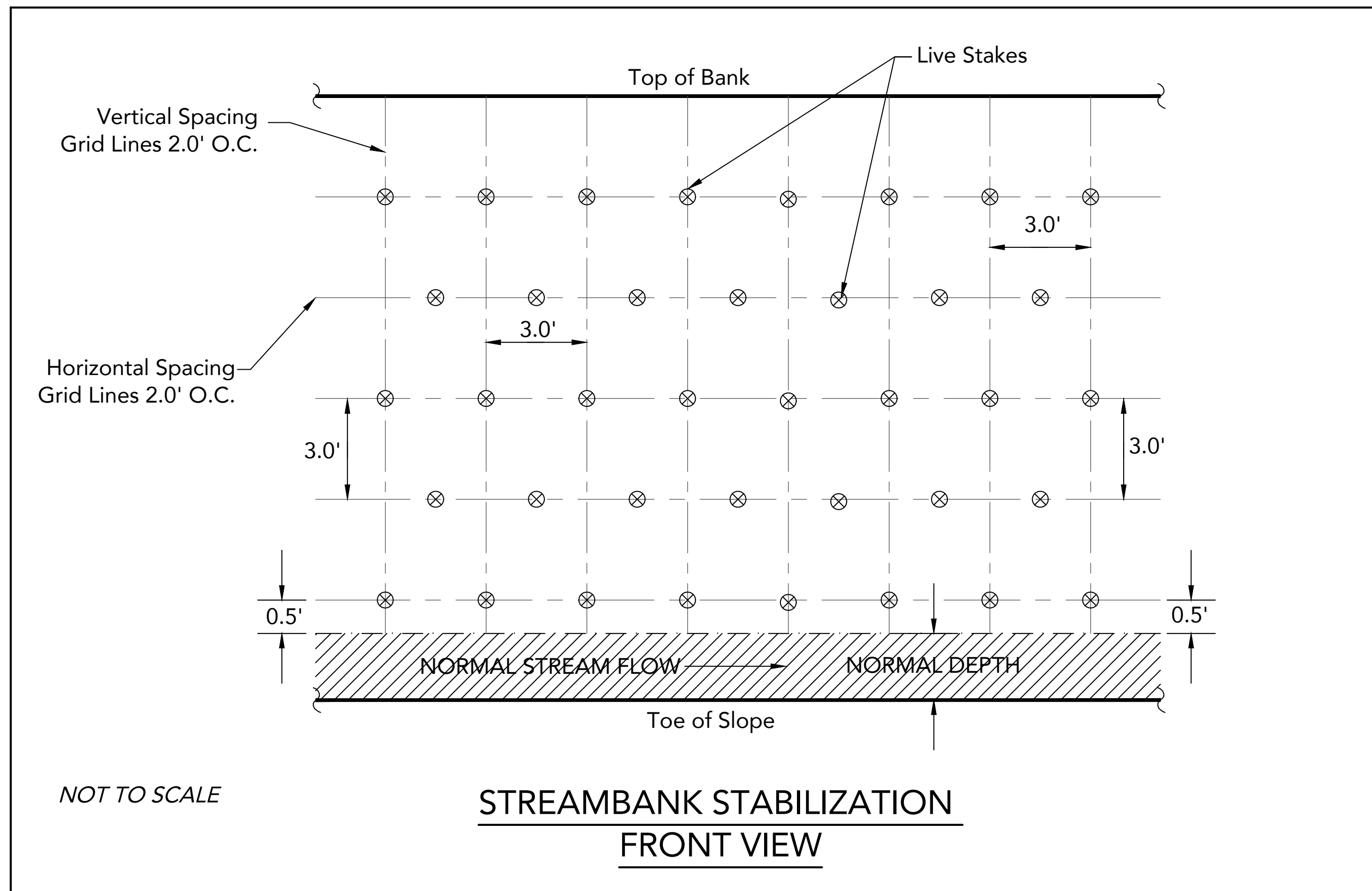
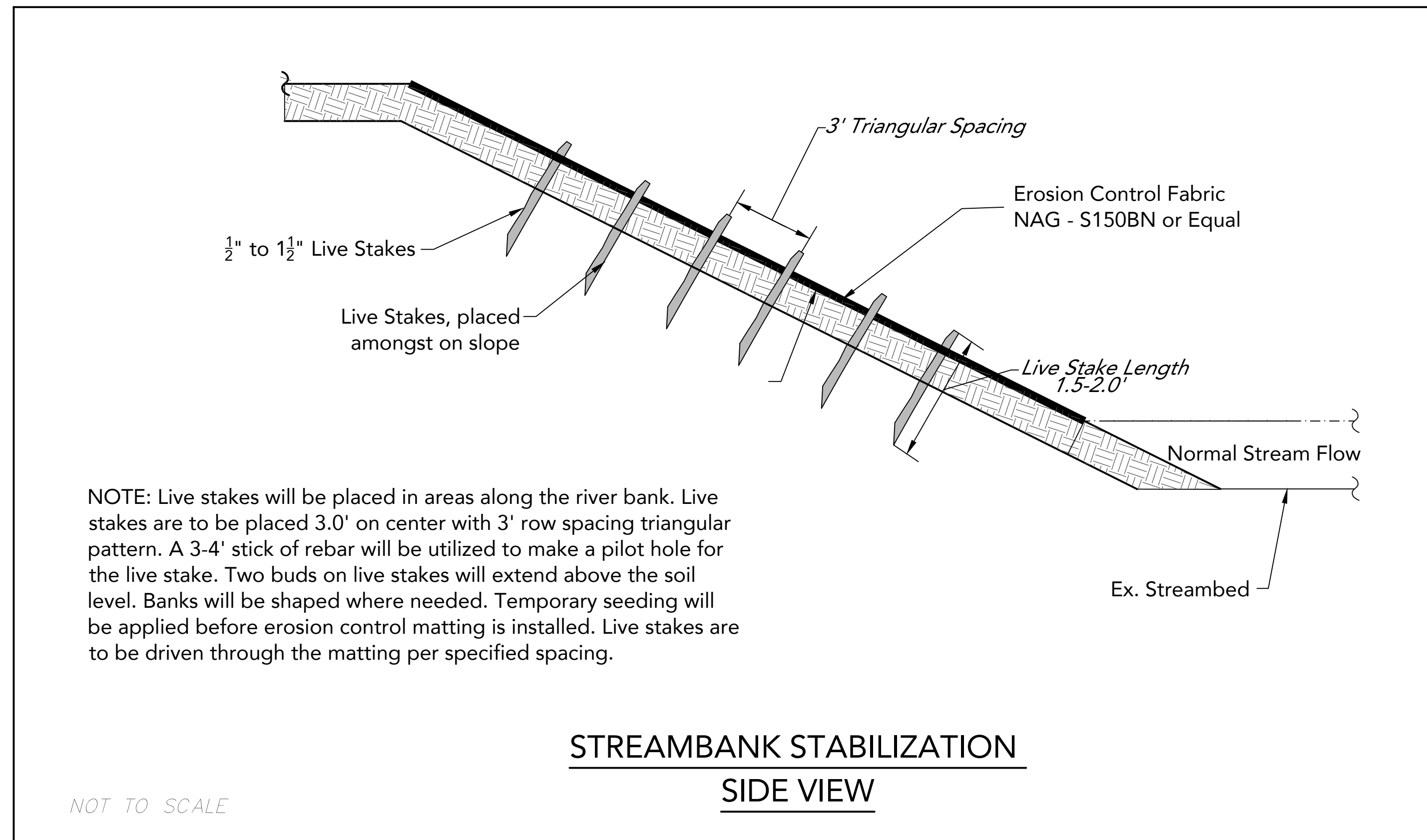
PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
C 4.2

PROJECT NUMBER:
23001SDA

DATE:
2/29/24

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SITE DEVELOPMENT PLANS
 FOR
AGARWAL RESIDENCE
 115 LAMBDIN LANE - ALPHARETTA, GA 30022

SHEET TITLE:
STANDARD DETAILS

PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
C 4.3


PROJECT NUMBER:
23001SDA

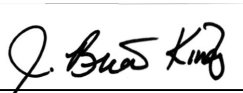
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#4
 24 HOUR CONTACT:
 Divya Agarwal
 Phone: 203-919-3188
#5 TERTIARY PERMITTEE
 Divya Agarwal
 115 Lambdin Ln
 Alpharetta, GA 30022
 Phone: 203-919-3188
#6 Total Property Area: 0.28 ACRES, Total Disturbed Area: 0.01 ACRES
#7 GPS Location of Construction Exit:
 Latitude: 34.22978° N Longitude: -84.142773° W
#9 DESCRIPTION OF THE CONSTRUCTION ACTIVITY
 Existing land is comprised of a developed lot for a single-family residence. The proposed construction consists of rehabilitation of an existing stream bank along Johns Creek .
#11 PROJECT RECEIVING WATERS
 The receiving waters for this project is Long Indian Creek.

#12
 I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION

 J. BRIAN KIMSEY, P.E. DATE: 2/14/2024
 P.E.# 26703
 E&SC CERTIFICATION NUMBER 00000003007

#13
 I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO GAR 100003".

 J. BRIAN KIMSEY, P.E. DATE: 2/14/2024
 P.E.# 26703
 E&SC CERTIFICATION NUMBER 00000003007

#15
 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25- FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
#16 BUFFER STATEMENT
 CONSTRUCTION ACTIVITY DOES ENCR OACH IN A BUFFER.
#19
 THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
#20
 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
#21
 ALL DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAT 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

#25
Petroleum Based Products – Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.
Paints/Finishes/Solvents – All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.
Concrete Washing – Concrete wash down of tools, concrete mixer chutes, hoppers and the rear of vehicles will be allowed at the designated area on this site. Washout of the drum at the construction site is prohibited.
Fertilizer/Herbicides – These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCG Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.
Building materials – No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.
Spill Cleanup and Control Practices
 – Local, State, and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
 – Material and equipment, necessary of spill cleanup will be kept in the material storage areas. Typical materials and equipment includes, but is not limited to, brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust and properly labeled plastic and metal waste containers.
 – Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
 – All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State and Federal regulations.
 – FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1 – 800 –424 – 8802.
 – FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITH 24 HOURS AT 1 – 800 – 424 – 8802.
 – FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS. THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
 –FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS. THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
 The contractor shall notify the licensed professional who prepared this plan if more than 1320 gallons of OIL is stored onsite (this includes capacities of equipment).The Contractor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licensed professional.
#28 STORM WATER POLLUTION
 The proposed silt fence is proposed to help reduce pollutants in storm water discharges. No adverse impacts are expected due to the nature of this construction activity.

#42 STATE WATERS BUFFER
 THERE ARE STATE WATERS LOCATED ON OR WITHIN 200FT OF THE PROJECT SITE AND THEY ARE SHOWN ON PLANS WITH THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS.
#45 RUNOFF COEFFICIENT
 Project site weighted curve number (AMC II) prior to construction is 20.1
 Project site weighted curve number (AMC II) after construction is completed is 20.1

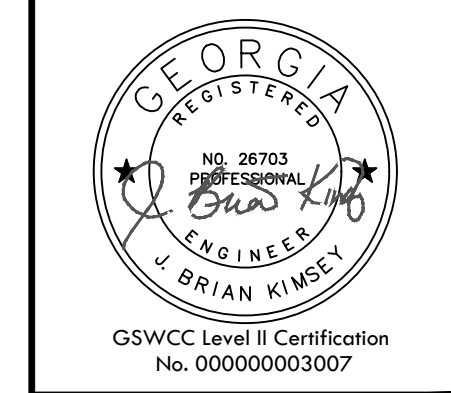
#29 ACTIVITY SCHEDULE

TASK DESCRIPTION:	MONTHS (2024)											
	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY
PERIMETER TREE SAVE FENCE												
PERIMETER SILT FENCE												
INITIAL SEDIMENT STORAGE BMPs												
CLEARING & GRUBBING												
STREAMBANK STABILIZATION												
TEMPORARY STABILIZATION (GRASSING)												
FINAL GRADING												
FINAL STABILIZATION												
MAINTENANCE												

START DATE MARCH 1, 2024 END: APRIL 31, 2024

REVISION BLOCK

ISSUE	REVISION DATE & DESCRIPTION
1	11.08.23 - INITIAL SUBMITTAL
2	2.29.24
3
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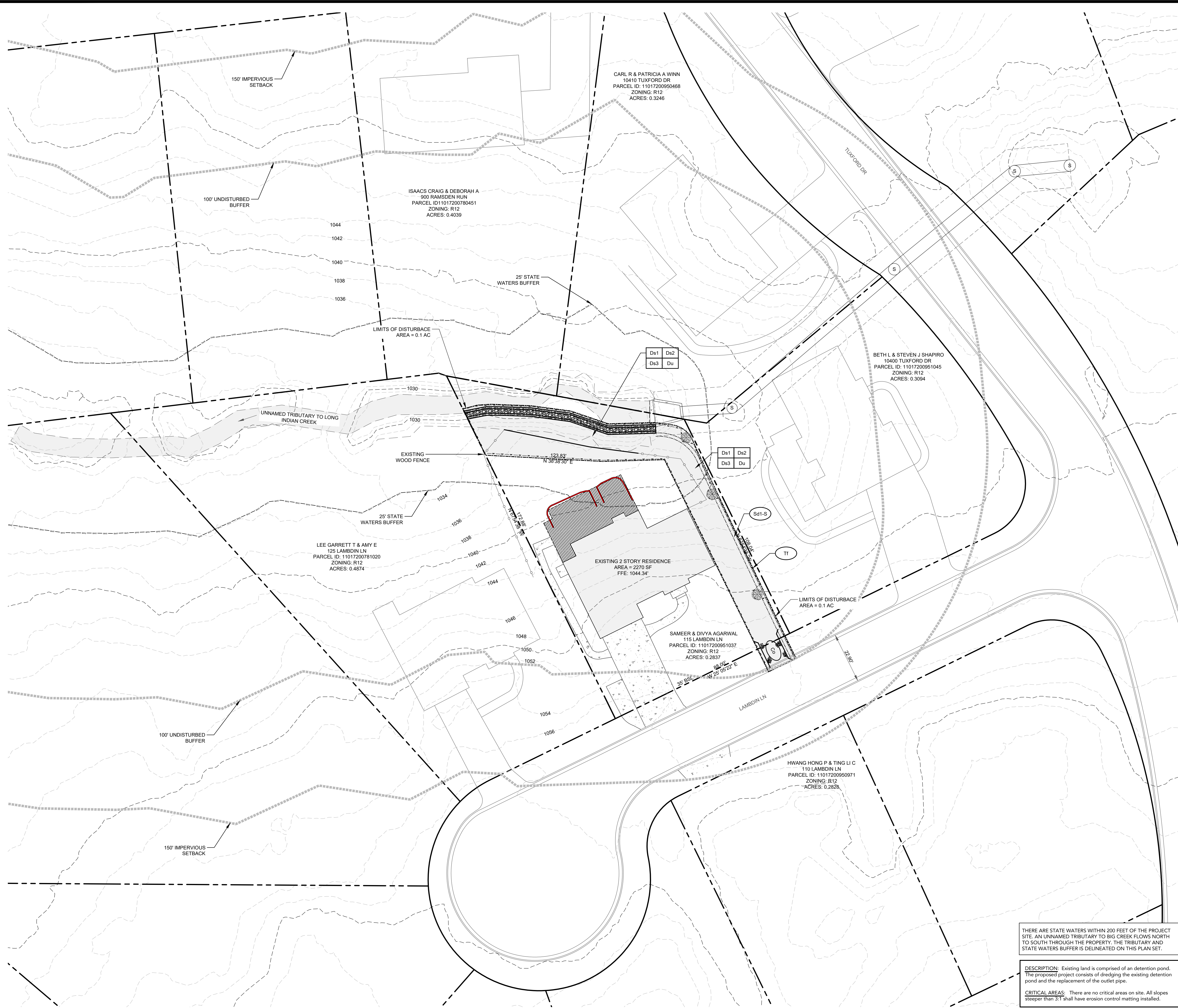
CARTER ENGINEERING
 3651 MARS HILL ROAD
 SUITE 2000
 WATKINSVILLE, GA 30677
 P: 770.725.1200
 F: 770.725.1204
 www.carterengineering.com

SITE DEVELOPMENT PLANS
 FOR
AGARWAL RESIDENCE
 115 LAMBDIN LANE - ALPHARETTA, GA 30022

SHEET TITLE:
E&SC NOTES
 PROJECT NAME:
AGARWAL RESIDENCE
 SHEET NUMBER:
C 5.0
 PROJECT NUMBER:
23001SDA
 DATE:
2/29/24

ENGINEER/DESIGNER NOT RESPONSIBLE FOR COST CHANGES DURING PRELIMINARY PHASE. BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR BID". BIDS & QUOTES SHALL BE REVISED BASED ON PLANS LABELED "ISSUE FOR CONSTRUCTION".

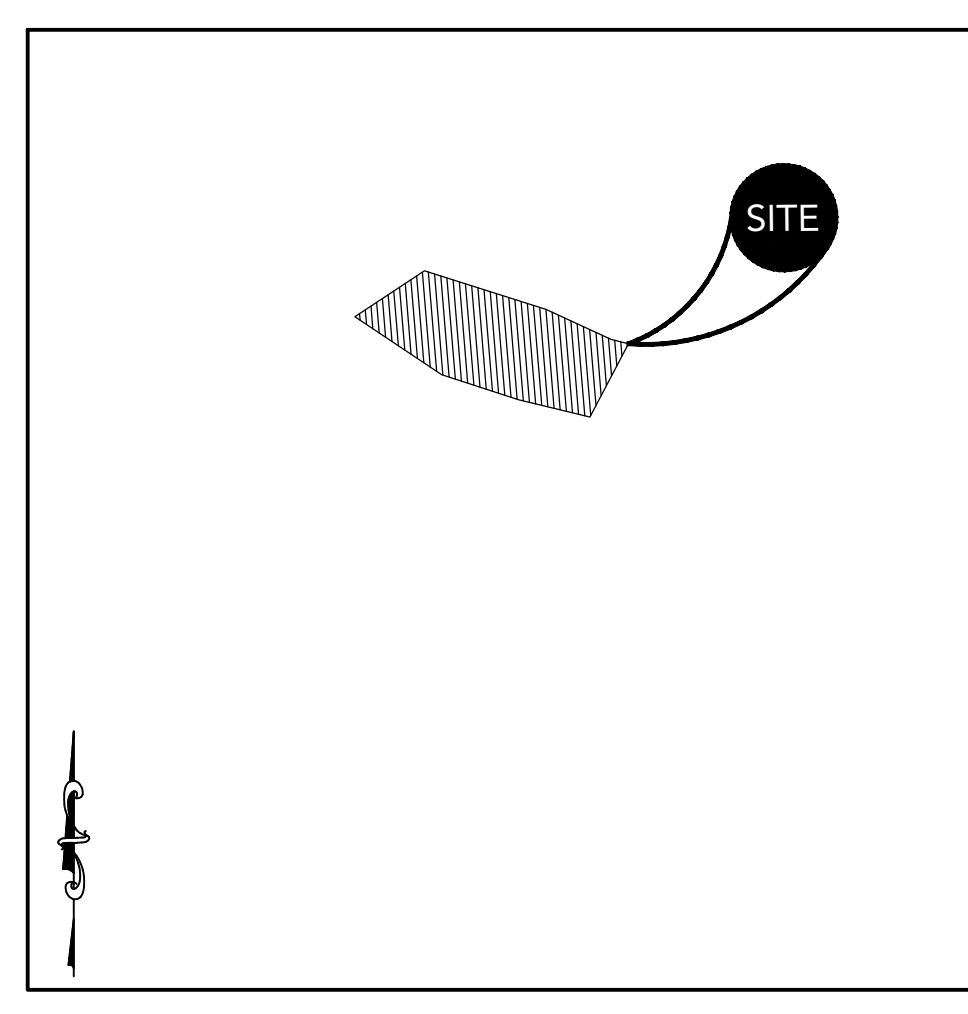
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THERE ARE STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE. AN UNNAMED TRIBUTARY TO BIG CREEK FLOWS NORTH TO SOUTH THROUGH THE PROPERTY. THE TRIBUTARY AND STATE WATERS BUFFER IS DELINEATED ON THIS PLAN SET.

DESCRIPTION: Existing land is comprised of a detention pond. The proposed project consists of dredging the existing detention pond and the replacement of the outlet pipe.

CRITICAL AREAS: There are no critical areas on site. All slopes steeper than 3:1 shall have erosion control matting installed.



LOCATION MAP
SCALE: N.T.S.

SOIL AND EROSION CONTROL NOTES

- | | |
|-----------------|--|
| DEVELOPER/OWNER | SAMEER & DIVYA AGARWAL |
| 24-HOUR CONTACT | 115 LAMB DIN LANE
ALPHARETTA, GA 30022
DIVYA AGARWAL
203-919-3188 |
- PROJECT DESCRIPTION:**
THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A COMMERCIAL RESTAURANT WITH ALL ASSOCIATED AND WARRANTED PARKING, UTILITIES, AND SITE ENHANCEMENTS
- EXISTING CONDITIONS:**
EXISTING LAND IS COMPRISED OF A VACANT COMMERCIAL PROPERTY WITH NO IMPERVIOUS MATERIAL. THE LOT SLOPES TO THE SOUTH AND WEST WITH STORMWATER LEAVING THE SITE PRIMARILY BY SHEET FLOW.
- TOTAL TRACT: 0.2837 AC
DISTURBED AREA: 0.1 AC
- CRITICAL AREAS:** THERE ARE NO CRITICAL AREAS ON SITE. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE. THERE ARE NO WETLANDS LOCATED ON OR WITHIN THE PROJECT LIMITS.
- ADDITIONAL MEASURES WILL BE ADDED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
 - EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.
 - STANDARD AND SPECIFICATIONS: ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE APPROVED EROSION CONTROL DESIGN MANUAL.
 - THE CONTRACTOR SHALL OBSERVE THE PROJECT SCHEDULE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL TIME PERIODS.
 - PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, AND/OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION AND NO LAND DISTURBANCE SHALL OCCUR OUTSIDE APPROVED LIMITS.
 - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY/EXIT FROM THE SITE ONTO ANY PUBLIC ROADWAY PRIOR TO ANY OTHER CONSTRUCTION.
 - AS INDICATED ON THE ACTIVITY SCHEDULE ON THE SHEET LABELED "EROSION CONTROL NOTES", SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXITS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE.
 - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 - ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.
 - ALL DRAIN INLET PROTECTION DEVICES ARE TO BE REMOVED WITHIN 30 DAYS AFTER THE SITE HAS BEEN STABILIZED, OR WHEN INLET PROTECTION IS NO LONGER NEEDED. THE AREA AROUND THE INLET IS TO BE CLEANED AND RE-GRADED. IN ADDITION, THE INSIDE OF THE STORM DRAIN INLET MUST BE CLEARED AND BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF FINAL INSPECTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY BMPs.

LANDSCAPE LEGEND

	EXISTING TREE		TREE PROTECTION FENCE
--	---------------	--	-----------------------

EROSION CONTROL LEGEND

VEGETATIVE MEASURES

	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		DUST CONTROL

STRUCTURAL MEASURES

	CONSTRUCTION EXIT		SILT FENCE TYPE SENSITIVE
	TREE PROTECTION FENCE		

PROJECT CONSTRUCTION AREA

SEDIMENT STORAGE CALCULATIONS:

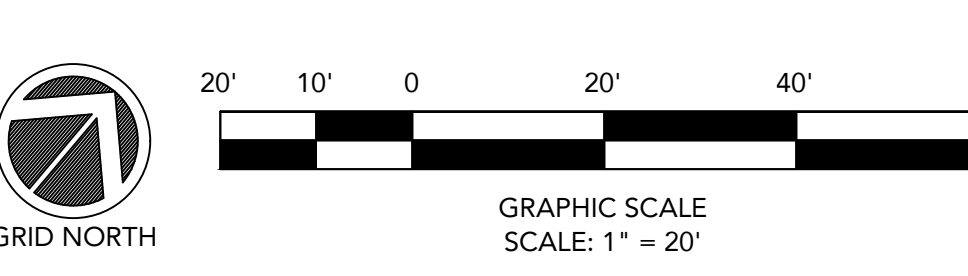
Disturbed area = 0.1 Ac
Required Sed. Storage = 0.1 Ac * 67 CY/Ac = 6.7 CY

Sed. Storage Provided by the following BMPs (See notes for calculation formulas):

- Silt Fence Storage = Length of silt fence * 0.216 CY/LF = 247.8 LF * 0.216 CY/LF = 53.5 CY

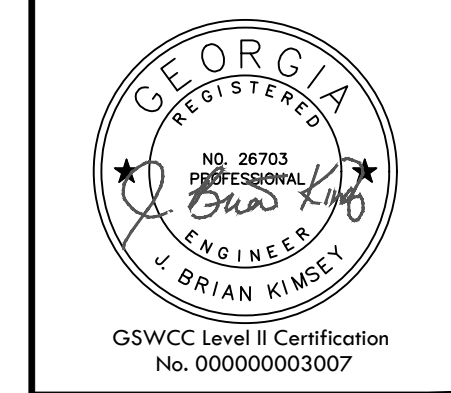
Total Volume of BMPs = 53.5 CY

NOTE:
CONSTRUCTION DISTURBED AREA SHOWN ON EASC PLAN. ALL ADDITIONAL DISTURBED AREAS SHALL BE UP GRADIENT OF THE PROPOSED BMPs. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL BMPs THROUGHOUT CONSTRUCTION AND PREVENT SEDIMENT FROM MIGRATING DOWN GRADIENT AT ALL TIMES.



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SITE DEVELOPMENT PLANS
FOR
AGARWAL RESIDENCE
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SHEET TITLE:
E&S CONTROL PLAN

PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
C 5.1

PROJECT NUMBER:
23001SDA

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MULCHING RATES **Ds1**

USE DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEEDS SEEDS. DRY STRAW OR HAY SHALL BE APPLIED AT THE RATE OF 2.5 TONS PER ACRE. MULCHING SHALL BE USED. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. MULCH SHALL BE USED DURING MONTHS THAT GRASSING SHOULD NOT BE APPLIED BASED ON THE SCHEDULE BELOW.

TEMPORARY AND PERMANENT VEGETATION SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 8 OF "THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL".

TEMPORARY GRASSING **Ds2**

TEMPORARY GRASSES SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE, BROWN TOP MILLET, OR GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER RATES PER SOILS TEST. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY SITE CONDITIONS. TEMPORARY GRASSING IS REQUIRED WHEN DISTURBED AREA IS LEFT EXPOSED MORE THAN 14 DAYS.

SPECIES	RATE	PLANTING DATES
BROWN MILLET	40#/ACRE	APRIL - JUNE
WEEDING LOVEGRASS	3 1/2#/ACRE	AUGUST-DECEMBER
ANNUAL LESPEDEZA	5#/ACRE	FEBRUARY-JUNE
SUDAN GRASS	40#/ACRE	FEBRUARY-APRIL
WHEAT	20#/ACRE	APRIL-AUGUST
		SEPTEMBER-DECEMBER

PERMANENT GRASSING **Ds3**

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING, FERTILIZATION, MULCHING AND SEEDING. THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING TO A DEPTH NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND. WITH FERTILIZER AT THE RATE OF 150#/ACRE AND LIME AT THE RATE OF 2000#/ACRE. THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM AND BE FREE OF ROCKS, CLODS, ROOTS AND WEEDS. FERTILIZER SHALL BE APPLIED PER THE TABLE BELOW. WEATHER PERMITTING, SEEDING SHALL BE DONE WITHIN 24 HOURS OF FERTILIZER APPLICATION. SEED SHALL BE UNIFORMLY SPREAD AT THE RATES SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER SEEDING AREAS AND SHALL ACHIEVE 75% TO 100% SOIL COVER. THE RATE OF APPLICATION SHALL BE DOUBLED ON SLOPES STEEPER THAN 4:1.

GRASSING RATES AND SCHEDULE

SPECIES	RATE	PLANTING DATES
TALL FESCUE	50#/ACRE	MARCH-APRIL/ AUGUST-OCTOBER
SERICEA LESPEDEZA (b)	60#/ACRE	MARCH-JUNE
WEEDING LOVE GRASS	5#/ACRE	MARCH-JUNE
UNHILLED BERMUDA	10#/ACRE	JAN-FEBRUARY-DEC
HILLED BERMUDA	10#/ACRE	MARCH-JUNE
BAHIA	60#/ACRE	APRIL-MARCH

(a) USE A MINIMUM OF 40% SCARIFIED SEED. REMAINDER MAY BE UNSCARIFIED, CLEAN HILLED SEED.
(b) USE EITHER COMMON SERALA, OR INTERSTATE SERICEA LESPEDEZA.

LIMING RATES

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

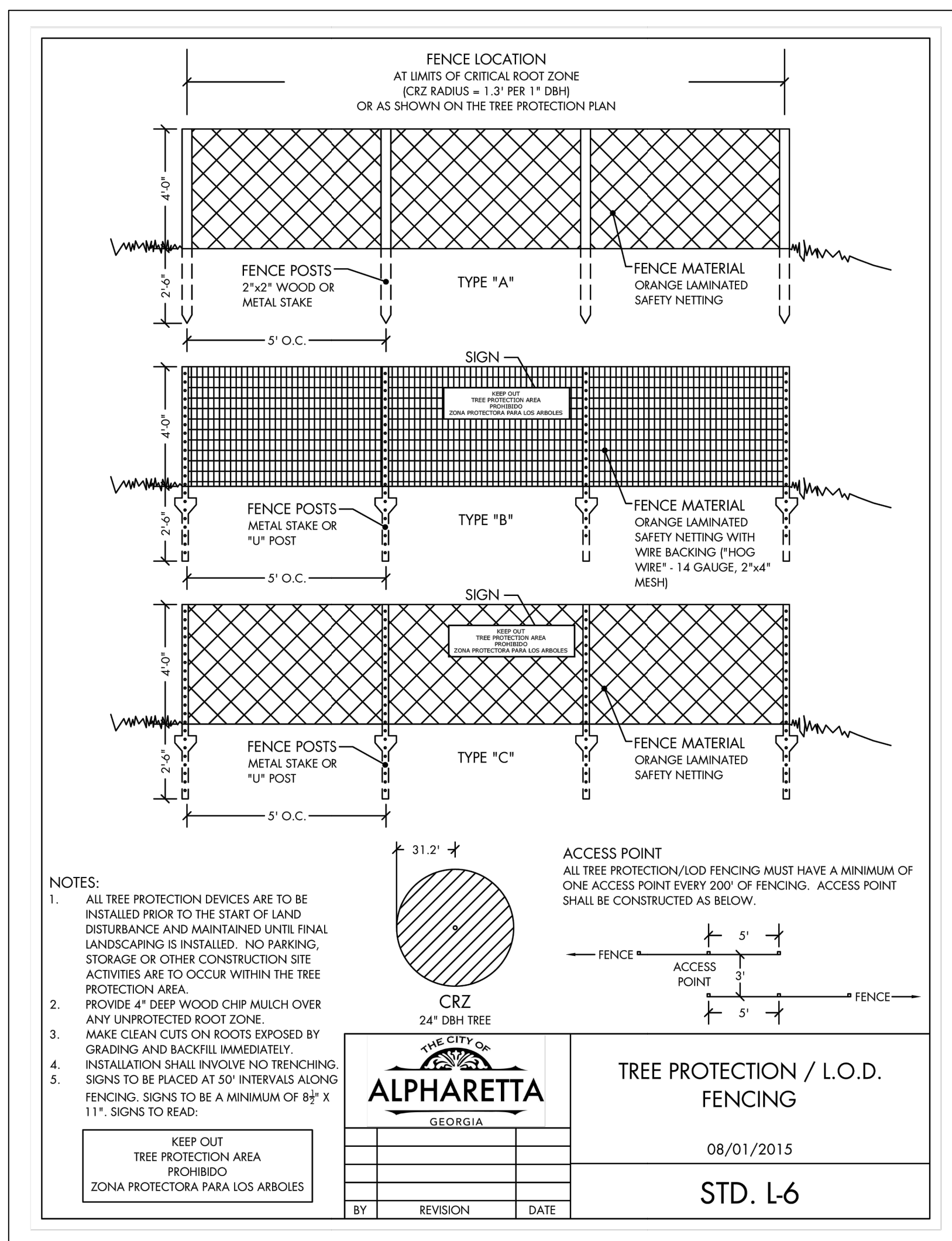
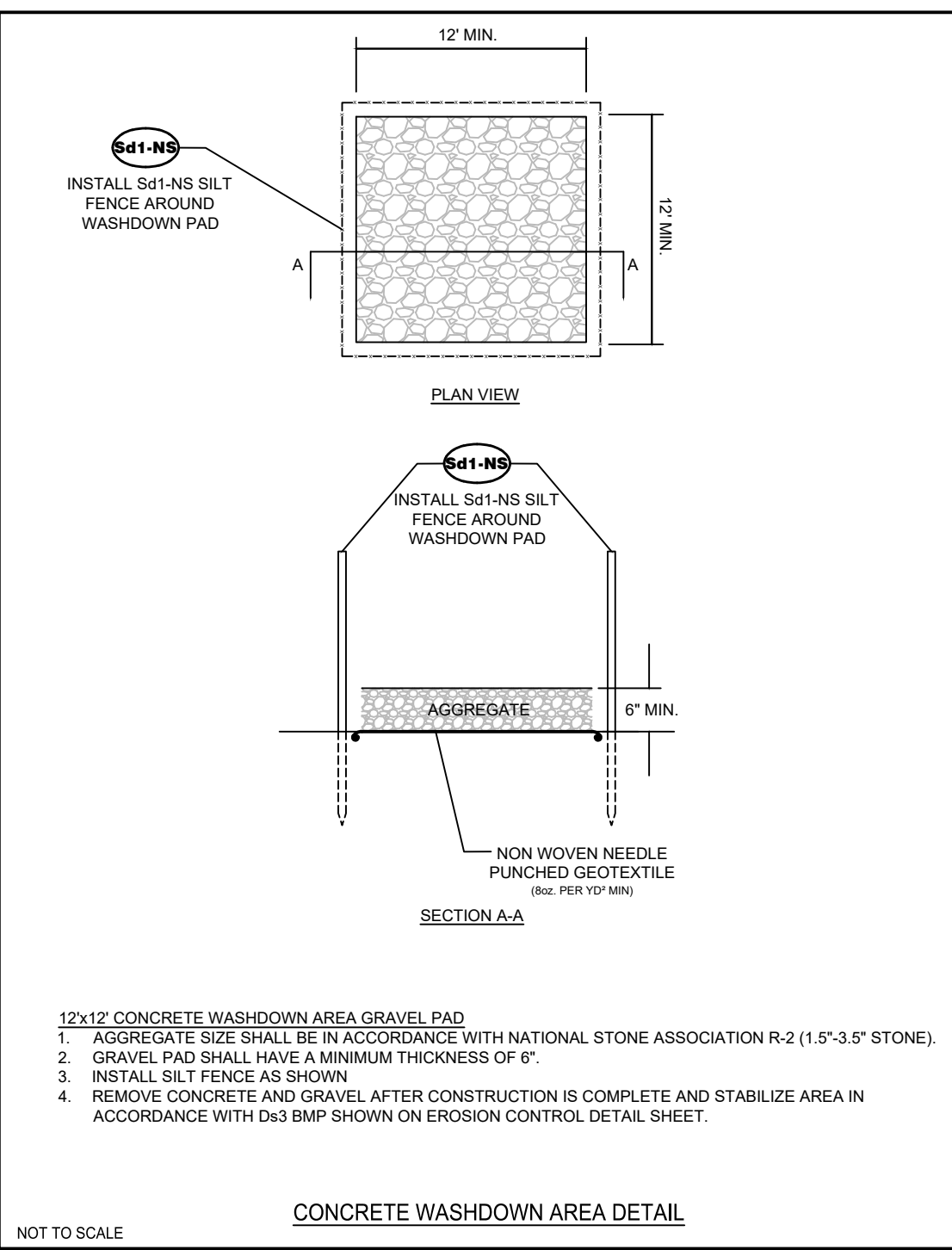
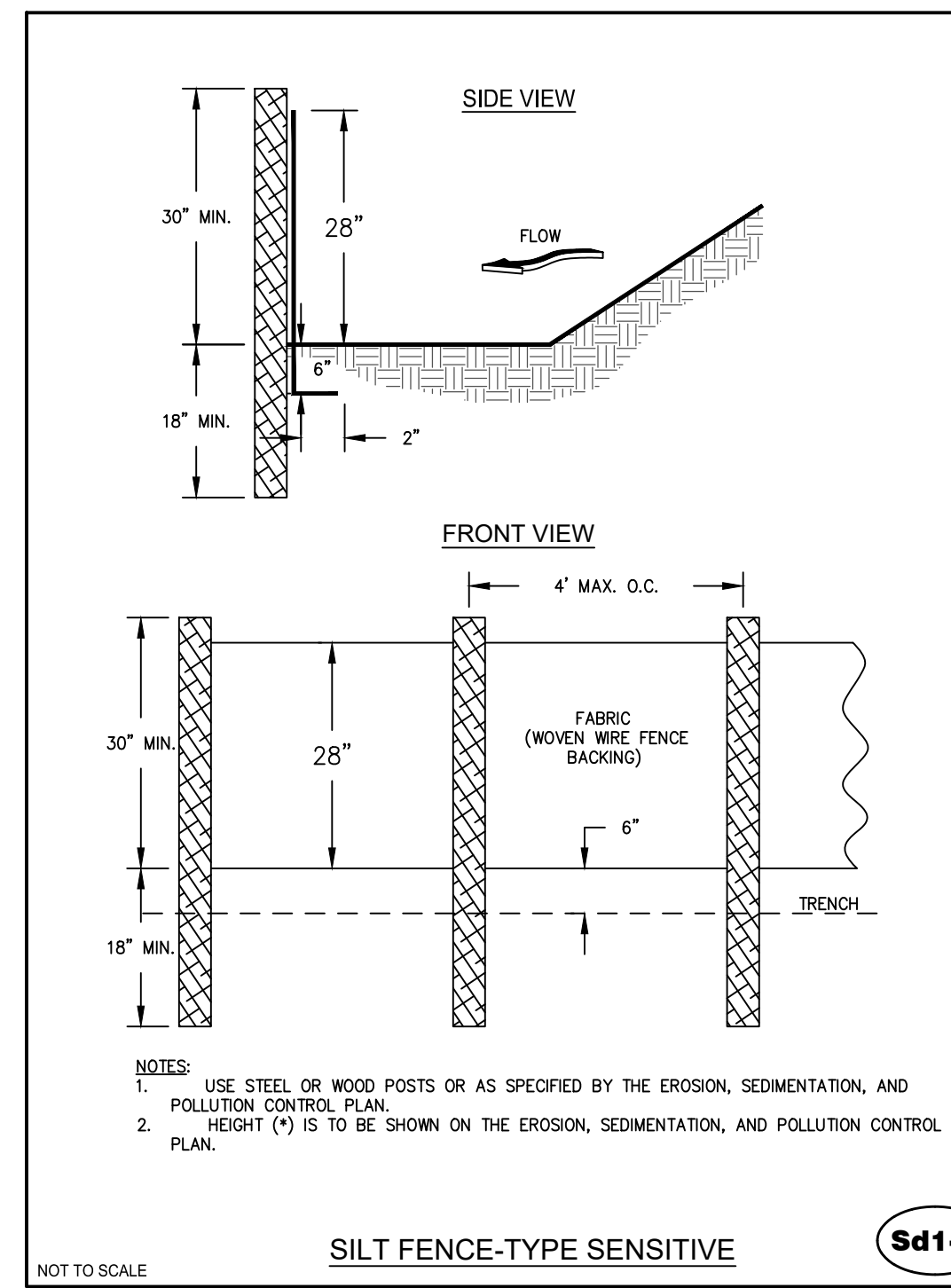
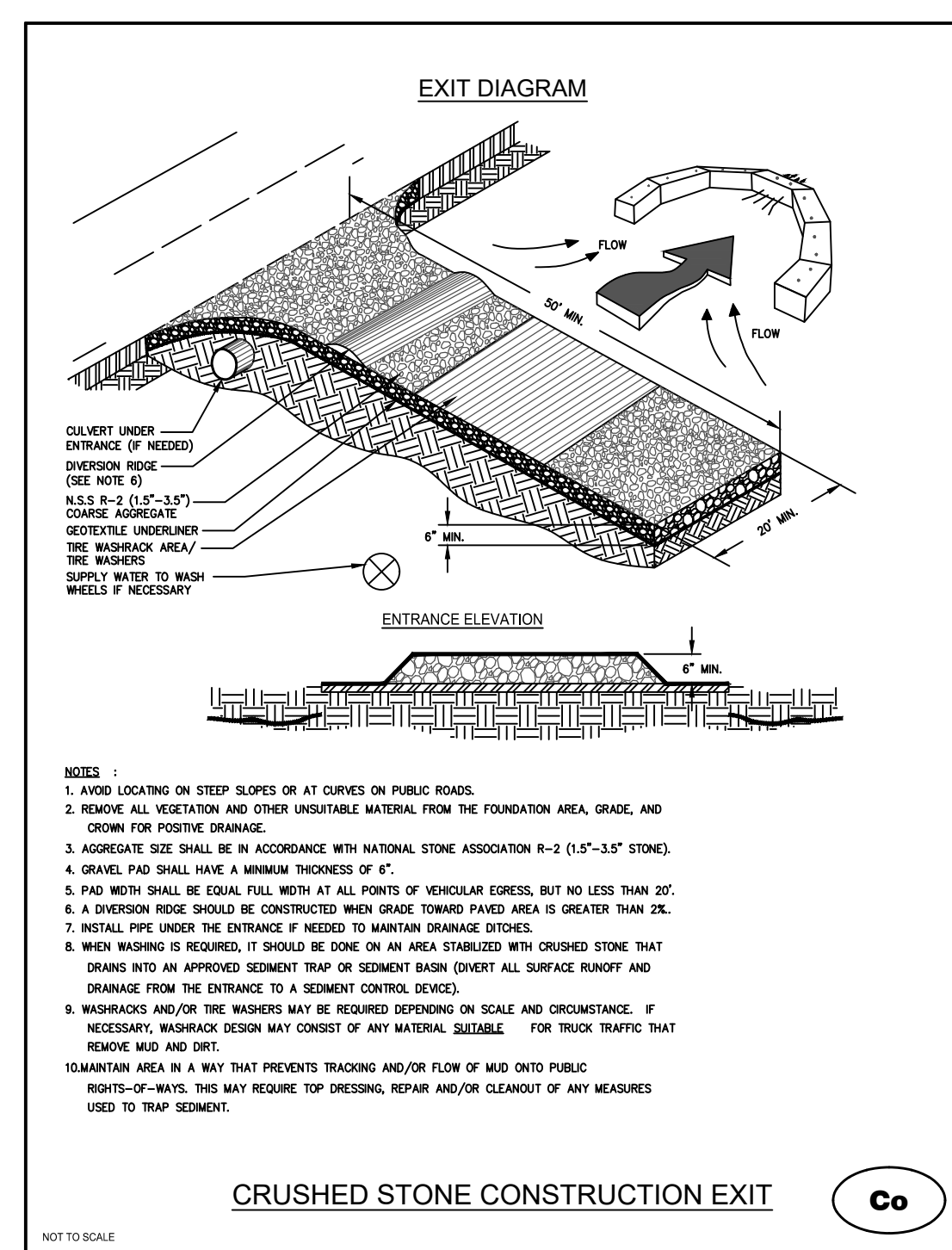
FERTILIZER REQUIREMENTS

TYPES OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2'
	Second	6-12-12	1000 lbs./ac.	-
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1'
	Second	0-10-10	1000 lbs./ac.	-
	Maintenance	0-10-10	400 lbs./ac.	-
3. Ground Covers	First	10-10-10	1300 lbs./ac. 3'	-
	Second	10-10-10	1300 lbs./ac. 3'	-
	Maintenance	10-10-10	1100 lbs./ac.	-
4. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	-
	Maintenance	0-10-10	700 lbs./ac. 4'	-
5. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2' 6"
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2'
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
6. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 6'
	Second	0-10-10	1000 lbs./ac.	-
	Maintenance	0-10-10	400 lbs./ac.	-

APPROVED TACKIFIERS AND BINDERS

PRODUCT OR TRADE NAME	RECOMMENDED APPLICATION RATE
Firm A500 HYDRO-STIK	40 lb./ac.
Agro Track MP	PMR
CONWED CON-TAC	40 lb./ac.
Eco Tak-OP/Eco Tak-SATI PMR	
Emulsified Asphalt	100 gal. of SS-1h or CSS-1h and 100 gal. of water per ton of mulch
Hercules Solloc-E	PMR
HYDRO-BOND	35 lb./ac.
RMB-plus	80-120 lb./ac.
TACPAC GT	PMR
TERRA-MULCH	
TACKING AGENT III	PMR

Du
DUST CONTROL



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1	11.08.23 - INITIAL SUBMITTAL
2	2.29.24
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REGISTERED PROFESSIONAL ENGINEER
No. 26703
Brian Kimes
BRIAN KIMES
GSVCC Level II Certification
No. 00000003007

CARTER ENGINEERING

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WATKINSVILLE, GA 30677
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SITE DEVELOPMENT PLANS FOR AGARWAL RESIDENCE 115 LAMB DIN LANE - ALPHARETTA, GA 30022

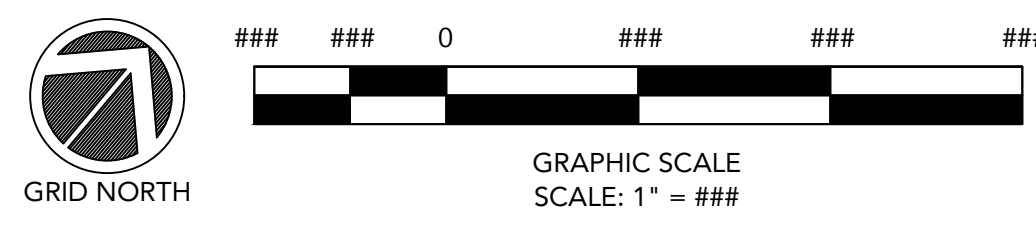
SHEET TITLE:
E&SC DETAILS

PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
C 5.2

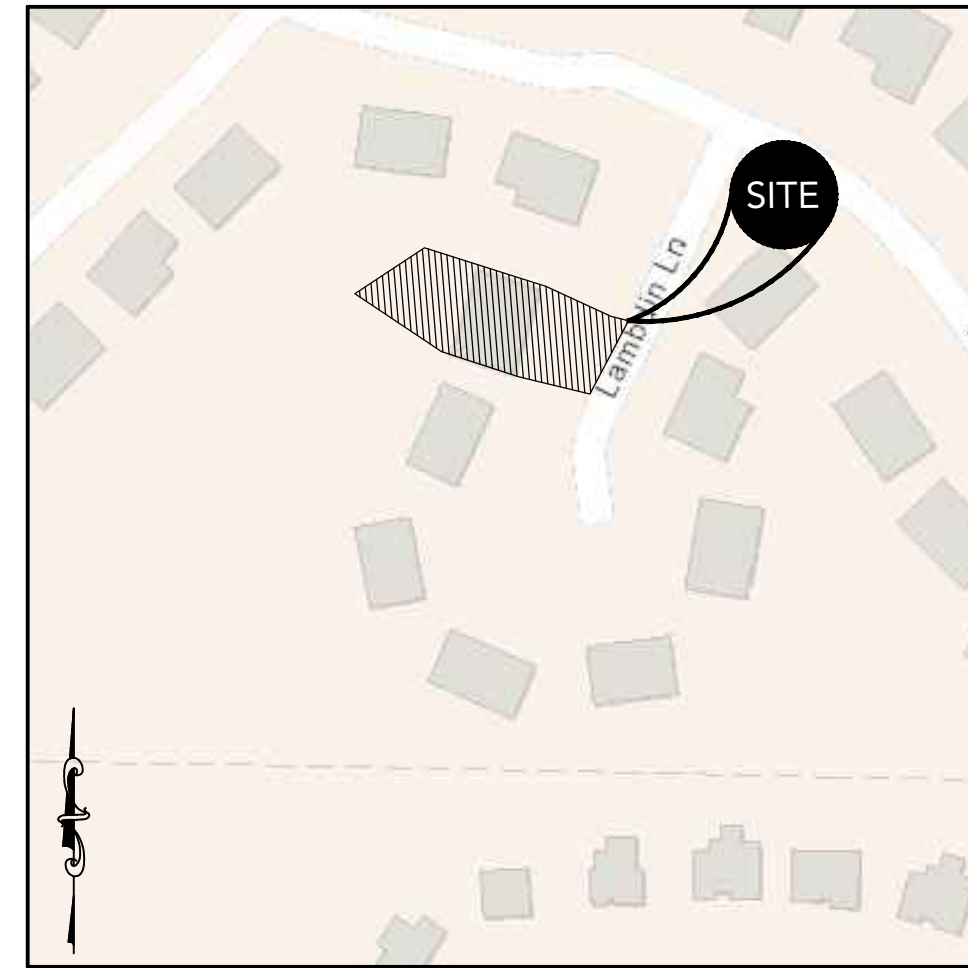
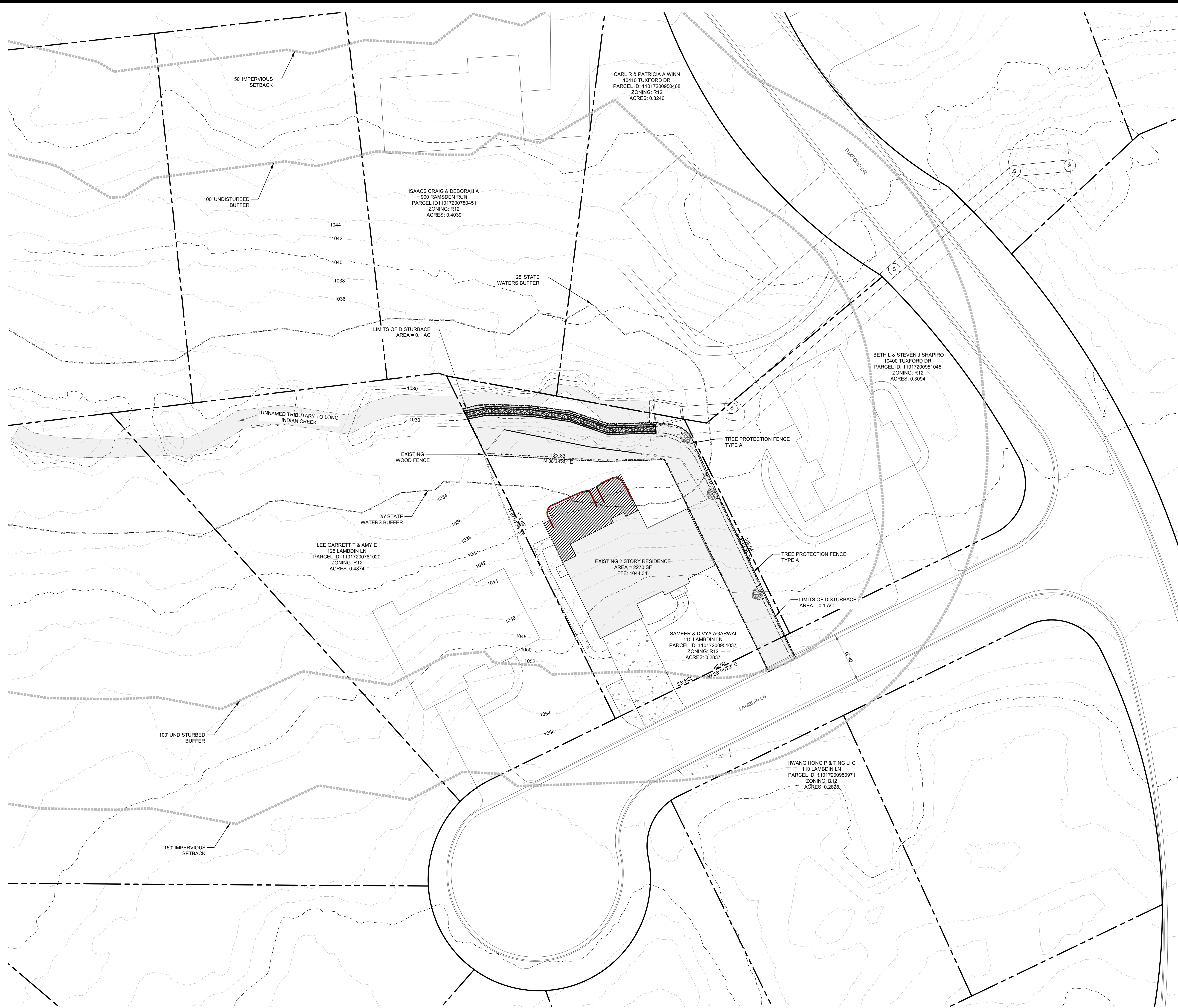
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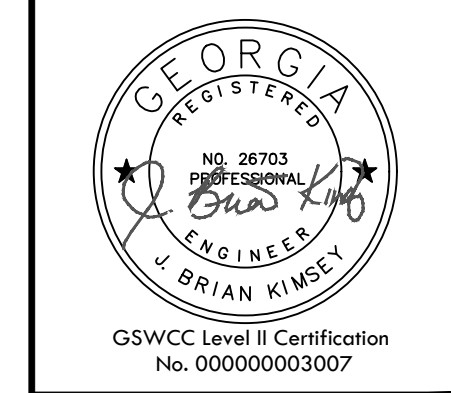
LOCATION MAP
SCALE: N.T.S.

PROJECT INFORMATION	
DRAWING SET PREPARED BY: CARTER ENGINEERING CONSULTANTS, INC. 1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSEY PHONE: 770.725.1204 BRIAN@CARTERENGINEERING.COM	OWNER/DEVELOPER: SAMEER & DIVYA AGARWAL 115 LAMBDIN LANE ALPHARETTA, GA 30022 CONTACT: DIVYA AGARWAL 203-919-3188 AGARWAL.FMLY@GMAIL.COM

SITE INFORMATION	
JURISDICTION	CITY OF ALPHARETTA
PROPERTY LOCATION	115 LAMBDIN LANE ALPHARETTA, GA 30022
PARCEL NUMBER	11017200951037
CURRENT ZONING	R3
PROPOSED ZONING	R3
OVERLAY DISTRICT	NONE
EXISTING USE	RESIDENTIAL
PROPOSED USE	RESIDENTIAL
BUFFERS REQUIRED	N/A
REQUIRED BUILDING SETBACKS	FRONT: N/A SIDE: N/A REAR: N/A
MAXIMUM LOT COVERAGE	N/A%
MINIMUM LANDSCAPE	N/A%
MAXIMUM BUILDING HEIGHT	N/A
SANITARY SEWER SERVICE	N/A
WATER SERVICE	N/A
FEMA FLOOD INSURANCE RATE MAP NO.	13121C0086F
FEMA FIRM DATE	09/18/2013
FEMA SFHA ZONE	X

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REVISION BLOCK	
ISSUE	REVISION DATE & DESCRIPTION
1	11.08.23 - INITIAL SUBMITTAL
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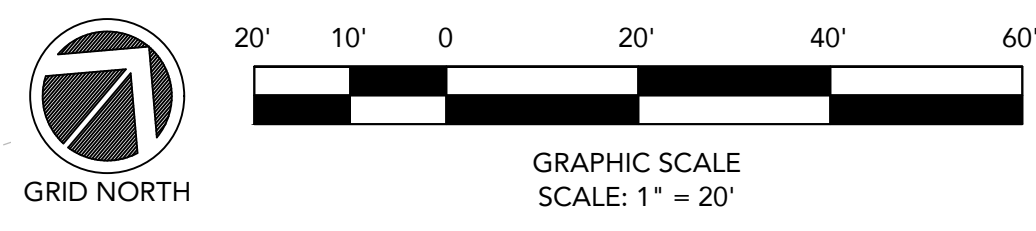
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TREE PROTECTION PLAN

PROJECT NAME:
AGARWAL RESIDENCE

SHEET NUMBER:
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PROJECT NUMBER:
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