

LETTER OF SUBMITTAL - VOLUMES 1 & 2

**I-81 MM 48 NORTHBOUND ACCELERATION LANE
EXTENSION, FROM MM 48.1 TO MM 48.8**

Smyth County, Virginia

State Project No.: 0081-086-834 PE101, C501

Federal Project No.: NHPP-081-1(367)

Contract ID Number: C00116161DB110



Due April 12, 2021

Submitted to:



Submitted by:





Letter of Submittal

Volume 1





Attachment 4.0.1.1

Letter of Submittal Checklist



ATTACHMENT 4.0.1.1

I-81 MM 48 Northbound Acceleration Lane Extension

LETTER OF SUBMITTAL CHECKLIST AND CONTENTS

Offerors shall furnish a copy of this Letter of Submittal Checklist, with the page references added, with the Letter of Submittal.

Letter of Submittal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Letter of Submittal Checklist and Contents	Attachment 4.0.1.1	Section 4.0.1.1	1-2
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.2 (Form C-78-RFP)	Sections 3.2; 4.0.1.1	3-4
Letter of Submittal	NA	Sections 4.1	5-6
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	5-6
Offeror's full legal name and address	NA	Section 4.1.1	5
Authorized representative's original signature	NA	Section 4.1.1	5
Declaration of intent	NA	Section 4.1.2	5
120 day declaration	NA	Section 4.1.3	5
Point of Contact information	NA	Section 4.1.4	5
Principal Officer information	NA	Section 4.1.5	5
Offeror's Corporate Structure	NA	Section 4.1.6	6
Full Legal Name of Lead Contractor, Lead Designer, and QAM	NA	Section 4.1.7	6
Offeror's VDOT prequalification information	NA	Section 4.1.8	6
DBE statement confirming Offeror is committed to achieving the required DBE goal	NA	Section 4.1.9	6
Final Completion Date	NA	Section 4.1.10	6

ATTACHMENT 4.0.1.1

I-81 MM 48 Northbound Acceleration Lane Extension

LETTER OF SUBMITTAL CHECKLIST AND CONTENTS

Letter of Submittal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Attachments to the Letter of Submittal	NA	Section 4.2	
Affiliated and/ or Subsidiary Companies	Attachment 4.2.1	Section 4.2.1	7-8
Certification Regarding Debarment Forms	Attachment 4.2.2(a) Attachment 4.2.2(b)	Section 4.2.2	9-13
Offeror's VDOT prequalification information	NA	Section 4.2.3	14
Evidence of obtaining bonding	NA	Section 4.2.4	15-16
Full size copies of DPOR licenses and SCC registrations	NA	Section 4.2.5	17-28
SCC registration information - businesses	Attachment 4.2.5	Section 4.2.5.1	29
DPOR registration information - businesses	Attachment 4.2.5	Section 4.2.5.2	29
Lead Contractor Work History Form	Attachment 4.2.6(a)	Section 4.2.6	30-32
Lead Designer Work History Form	Attachment 4.2.6(b)	Section 4.2.6	33-35
Conceptual Roadway Plans	NA	Section 4.2.7	36-47



Form C-78-RFP

Acknowledgement of RFP, Revision,
and/or Addenda

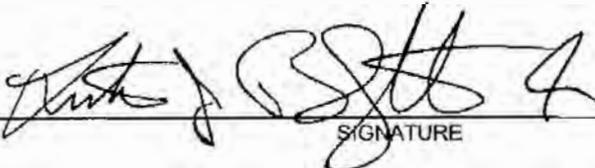


ATTACHMENT 3.2**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION****I-81 MM 48 Northbound Acceleration Lane Extension Design-Build Project**RFP NO. C00116161DB110PROJECT NO.: 0081-086-834 PE101, C501**ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA**

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.2, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of RFP – January 28, 2021
(Date)
2. Cover letter of Addendum No. 1 – February 5, 2021
(Date)
3. Cover letter of Addendum No. 2 – March 8, 2021
(Date)
4. Cover letter of Addendum No. 3 – March 18, 2021
(Date)
5. Cover letter of Addendum No. 4 – March 25, 2021



SIGNATURE

April 12, 2021

DATE

Luther J Blythe JrVice President of Operations

PRINTED NAME

TITLE



Section 4.1

Letter of Submittal





BLYTHE DEVELOPMENT COMPANY

1415 EAST WESTINGHOUSE BOULEVARD • CHARLOTTE, NORTH CAROLINA 28273 • TEL (704) 588-0023 • FAX (704) 588-9935

April 12, 2021

Virginia Department of Transportation (VDOT)
Alternative Project Delivery Division
1401 East Broad Street
Annex Building, 5th Floor
Richmond, VA 23219
Attn: Mr. Jeffrey A. Roby, P.E., DBIA

RE: Letter of Submittal, I-81 MM 48 Northbound Acceleration Lane Extension,
from MM 48.1 to MM 48.8, Smyth County, VA
State Project No. 0081-086-834 PE101, C501; Federal Project No. NHPP-081-1(367);
Contract ID Number C0116161DB110

Dear Mr. Roby:

Blythe Development Company (Blythe) is pleased to submit this electronic copy of our Letter of Submittal, Attachments to the Letter of Submittal, and our Price Proposal for the subject project. Blythe has thoroughly reviewed the Request for Proposals (RFP).

The following is requested information and/or attachments separated by numbered tabs with sections corresponding to the order set forth in Part I, Section 4.1:

Acknowledgement of Receipt of RFQ, Revisions, and /or Addenda (Form C-78-RFQ) and Letter of Submittal Checklist: Completed and included as Attachments 2.10 and 3.1.2 on the pages preceding this letter.

4.1.2 If selected, Blythe intends to enter into a contract with VDOT.

4.1.3 Pursuant to Part 1, Section 8.2 of the RFP, the offer represented in this proposal will remain in full force and effect for 120 after date of Price Proposal submittal to VDOT ("Letter of Submittal & Price Proposal Due Date").

Blythe Development Company (Blythe), 1415 E. Westinghouse Boulevard, Charlotte, NC 28273, is the legal entity who will execute the contract with VDOT. Blythe appoints the following:

4.1.4 Richard Kirkman, P.E., Design-Build Project Manager, will serve as the Point of Contact for the Offeror. 1415 E. Westinghouse Boulevard, Charlotte, NC 28273 P: (704) 588-0023 F: (704) 588-9935; rkirkman@blythedevelopment.com

4.1.5 Luke Blythe, Vice President of Operations, will serve as the Principal Officer for the Offeror. 1415 E. Westinghouse Boulevard, Charlotte, NC 28273 P: (704) 588-0023 F: (704) 588-9935; lblythe@blythedevelopment.com



BLYTHE DEVELOPMENT COMPANY

4.1.6 Blythe is a North Carolina corporation, authorized to conduct business in Virginia by the SCC, and will be the sole major participant firm and responsible party to the design-build contract with VDOT. Blythe will hold all financial responsibility for the contract and does not have any liability limitations.

4.1.7 Lead Contractor: Blythe Development Company (Blythe). Lead Designer: Timmons Group, Inc. (Timmons). QA Firm: CES Consulting LLC (CES)

4.1.8 Blythe's Prequalification number and status is: Prequalified (Vendor ID: B1096) for the following Work Classes (listed, but not limited to): 002-Grading, 004-Asphalt Concrete Paving, 013-Roadway Milling, 045-Underground Utilities, 101-Excavating. A copy of our certification is included in the Attachments to the Letter of Submittal.

4.1.9 Blythe is committed to achieving a 10% DBE participation goal for the entire value of the contract

4.1.10 The final completion date for this contract will be July 25, 2022

Our Team (Blythe and TG) is enthusiastic about the opportunity to participate in the design-build process for the subject project and we are confident we will complete this project on time and within budget. Collectively, Blythe and Timmons bring the leadership, skills and shared core values to assist VDOT in delivering a project that sets the standards for others to follow.

Sincerely,

Luther J. Blythe, Jr
Vice President of Operations



Section 4.2

Attachments to the Letter of Submittal





Attachment 4.2.1

Affiliated Subsidiary Companies



ATTACHMENT 4.2.1

I-81 MM 48 Northbound Acceleration Lane Extension

State Project No. 0081-086-834 PE101, C501

Affiliated and Subsidiary Companies of the Offeror



Attachment 4.2.2(a)

Certification Regarding Debarment:
Primary Tier Form



ATTACHMENT 4.2.2(a)

**CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS**

I-81 MM 48 Northbound Acceleration Lane Extension

Project No.: 0081-086-834 PE101, C501

1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.


Signature

4/12/21
Date

Vice President of Operations
Title

Blythe Development Co.

Name of Firm

ORDER NO.:
CONTRACT ID. NO.: C00116161DB110

Form C-105
page 2

3. The bidder certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated above; and
 - (d) Where the bidders is unable to certify to any of the statements in this certification, the bidder shall show an explanation below.

Explanations will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any explanation noted, indicate below to whom it applies, initiating agency, and dates of action. Providing false information may result in federal criminal prosecution or administration sanctions. The bidder shall provide immediate written notice to the Department if at any time the bidder learns that its certification was erroneous when submitted or has become erroneous by reason of change circumstances.

The undersigned is duly authorized by the bidder to make the foregoing statements to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Charlotte, NC, this 6th day of April, 20 21
County (City), STATE

Blythe Development Co.
(Name of Firm)

By: [Signature] VP of Operations
(Signature) Title (print)

STATE of NC

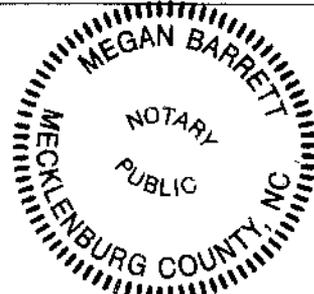
COUNTY (CITY) of Mecklenburg

I Megan Barrett
County (City) aforesaid, hereby certify that this day Luther S Blythe Jr., a Notary Public in and for the State and

personally appeared before me and made oath that he is duly authorized to make the above statements and that such statements are true and correct.

Subscribed and sworn to before me this 6th day of April, 20 21
Megan Barrett
My Commission expires 2-4-23

Notary Public





Attachment 4.2.2(b)

Certification Regarding Debarment:
Lower Tier Forms



ATTACHMENT 4.2.2(b)

CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

I-81 MM 48 Northbound Acceleration Lane Extension

Project No.: 0081-086-834 PE101, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



March 16, 2021

Director of Transportation Design Build
Director of Bridges & Structures

Signature

Date

Title

Timmons Group

Name of Firm

ATTACHMENT 4.2.2(b)

CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

I-81 MM 48 Northbound Acceleration Lane Extension

Project No.: 0081-086-834 PE101, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

03/03/2021

Date

President

Title

CES CONSULTING LLC

Name of Firm

ATTACHMENT 4.2.2(b)

CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

I-81 MM 48 Northbound Acceleration Lane Extension

Project No.: 0081-086-834 PE101, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

 _____ Signature	Kanwal P. Chopra _____ Date	03/11/2021 _____ Date	President _____ Title
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American Geotechnical & Environmental Services, Inc.
Name of Firm



Section 4.2.3

Offeror's VDOT Prequalification Information





Department's List of Prequalified Vendors
Includes All Qualified Levels As Of 3/3/2021

- B -

Vendor ID: B1096

Vendor Name: BLYTHE DEVELOPMENT CO.

Prequal Level: Prequalified

Prequal Exp: 02/28/2022

-- PREQ Address --

1415 E. WESTINGHOUSE BOULEVARD

CHARLOTTE, NC 28273

Phone: (704)588-0023

Fax: (704)588-9935

Work Classes (Listed But Not Limited To)

002 - GRADING

004 - ASPHALT CONCRETE PAVING

013 - ROADWAY MILLING

045 - UNDERGROUND UTILITIES

101 - EXCAVATING

Bus. Contact: BLYTHE, FRANKLIN WILLIAMS

Email: FRANKB@BLYTHEDEVELOPMENT.COM

-- DBE Information --

DBE Type: N/A

DBE Contact: N/A



Section 4.2.4

Evidence of Obtaining Bonding





USI Insurance Services
6100 Fairview Drive
Suite 1400
Charlotte, NC 28210
www.usi.com
Tel: 704.543.0258

March 8, 2021

Mr. Jeffrey A. Roby, P.E., DBIA
Alternative Project Delivery Division
Virginia Department of Transportation
1401 East Broad St.
Annex Building, 5th Floor
Richmond, VA 23219

RE: Our Client: Blythe Development Company
Project: I-81 MM 48 Northbound Acceleration Lane Extension – Smyth Co., VA
State Project #0081-086-834 PE101, C501
Federal Project #NHPP-081-1(367) – Contract ID #C00116161DB110
Estimated Cost: \$15,000,000.00

Dear Jeffrey:

It is our pleasure to comment on the bonding qualifications of Blythe Development Company. Through their current surety, Liberty Mutual Insurance Company, we have handled the contract Performance and Payment bond requirements on behalf of the above firm since 2004. Their current bonding limits are \$140,000,000 single job / \$475,000,000 aggregate work program.

We consider Blythe Development Company to be one of the more outstanding contractors in this area and we recommend them highly. Blythe Development Company is well managed, capably staffed and sufficiently financed to process the work they are bidding.

It is our understanding that the above referenced project has an estimated value of approximately \$15,000,000.00. Liberty Mutual Insurance Company would be most willing to provide the Performance and Payment Bond, in the event they are awarded the contract and enter into a contract satisfactory to all parties.

As surety for Blythe Development Company, Liberty Mutual Insurance Company, with an A.M. Best Financial Strength Rating of “A” (Excellent) and a Financial Size Category of XI (\$2 Billion or greater), is capable of obtaining 100% Performance Bond and 100% Labor and Materials Payment Bond in the amount of the anticipated cost of construction, and said bonds will cover the Project and any warranty periods as provided for in the Contract Documents on behalf of the Contractor, in the even that such firm is the successful bidder and enter into a Contract for this project.

Please note that the decision to issue Performance and Payment bonds is a matter between Blythe Development Company and Liberty Mutual Insurance Company and will be subject to our standard underwriting at the time of the final bond request, which will include but not be limited to the acceptability of the contract documents, bond forms and financing. We assume no liability to third parties or to you if for any reason we do not execute said bonds.

Sincerely,

LIBERTY MUTUAL INSURANCE COMPANY


Donna K. Ashley, Attorney-In-Fact



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8202325-969489

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Donna K. Ashley; Jacqueline Hampton; Jennifer C. Hoehn; John D. Leak, III; J. David Pollack, Jr.; William J. Quinn; Angela D. Ramsey; G. Timothy Wilkerson all of the city of Charlotte, state of NC each individually if there be more than one named, its true and lawful attorney-in-fact, with full power and authority hereby conferred to sign, execute and acknowledge the above-referenced surety bond.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 10th day of October, 2019.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company



By: _____

David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 10th day of October, 2019, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: _____

Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company do hereby certify that this power of attorney executed by said Companies is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies the 8th day of March, 2021.



By: _____

Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00am and 4:30pm EST on any business day.



Section 4.2.5

Full Size Copies of DPOR Licenses & SCC Registrations



Commonwealth of Virginia



State Corporation Commission

CERTIFICATE OF GOOD STANDING

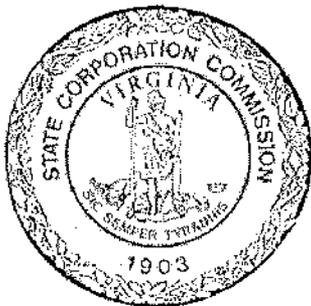
I Certify the Following from the Records of the Commission:

That BLYTHE DEVELOPMENT CO., a corporation incorporated under the laws of NORTH CAROLINA, is authorized to transact business in the Commonwealth of Virginia;

That the corporation obtained a certificate of authority to transact business in Virginia from the Commission on May 10, 2005; and

That the corporation is in good standing in the Commonwealth of Virginia as of the date set forth below.

Nothing more is hereby certified.



Signed and Sealed at Richmond on this Date:

January 5, 2021

A handwritten signature in cursive script, reading "Bernard J. Logan".

Bernard J. Logan, Clerk of the Commission

Commonwealth OF Virginia



State Corporation Commission

CERTIFICATE OF GOOD STANDING

I Certify the Following from the Records of the Commission:

That Timmons Group, Inc. is duly incorporated under the law of the Commonwealth of Virginia;

That the date of its incorporation is November 30, 1984;

That the period of its duration is perpetual; and

That the corporation is in existence and in good standing in the Commonwealth of Virginia as of the date set forth below.

Nothing more is hereby certified.



*Signed and Sealed at Richmond on this Date:
July 3, 2019*

Joel H. Peck

Joel H. Peck, Clerk of the Commission



**COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION**

**LLC-1018.1
(04/10)**

**STATEMENT OF CHANGE OF THE PRINCIPAL OFFICE ADDRESS
OF A LIMITED LIABILITY COMPANY**

1. Limited Liability Company's Name:

SCC ID #: S341600-7

CES CONSULTING, LLC

2. Current principal office address on record:

**13991 VIRGINIA CEDAR COURT
GAINESVILLE, VA 20155**

3. The limited liability company's principal office address, including the street and number, is changed to:

**23475 ROCK HAVEN WAY
SUITE 255
DULLES, VA 20166**

Executed in the name of the limited liability company by:

Signed on October 18, 2016, on behalf of CES Consulting, LLC

By: Avtar Singh, Member

/s/ Avtar Singh

The statement must be executed in the name of the limited liability company by any manager or other person who has been delegated the right and power to manage the business and affairs of the limited liability company, or if no manager or such other person has been selected, by any member of the limited liability company.

COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION

AT RICHMOND, OCTOBER 26, 2010

The State Corporation Commission has found the accompanying articles submitted on behalf of

CES Consulting, LLC
(formerly known as Construction Engineering & Scheduling Consulting
Engineers, PLC)

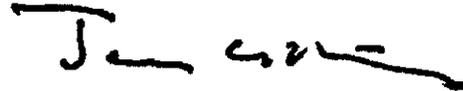
to comply with the requirements of law, and confirms payment of all required fees. Therefore, it
is ORDERED that this

CERTIFICATE OF AMENDMENT

be issued and admitted to record with the articles of amendment in the Office of the Clerk of the
Commission, effective October 26, 2010.

STATE CORPORATION COMMISSION

By



James C. Dimitri
Commissioner

10-10-26-1101
LLAACPT
CIS0368



COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION

LLC-1014N
(04/10)

ARTICLES OF AMENDMENT
CHANGING THE NAME OF A VIRGINIA LIMITED LIABILITY COMPANY
By the Members

The undersigned, on behalf of the limited liability company set forth below, pursuant to § 13.1-1014 of the Code of Virginia, states as follows:

1. The current name of the limited liability company, as it appears on the records of the State Corporation Commission, is

Construction Engineering & Scheduling Consulting Engineers, PLC

2. The name of the limited liability company is changed to

CES Consulting, LLC

The LLC is now a general business LLC

(The name must contain the words limited company or limited liability company or the abbreviation L.C., LC, L.L.C., or LLC)

3. (See "Approval" Instructions for requisite vote.) The foregoing amendment was adopted by a vote of the members in accordance with the provisions of the Virginia Limited Liability Company Act on 10/25/2010
(date)

Executed in the name of the limited liability company by:


(signature)

Avtar Singh
(printed name)

S341600-7
(limited liability company's SCC ID no. (optional))

10/25/2010
(date)

Member
(title (e.g., manager or member))

(571) 722-9824
(telephone number (optional))

CHECK IF APPLICABLE (see instructions):

The person signing this document on behalf of the limited liability company has been delegated the right and power to manage the company's business and affairs.

(The articles must be executed in the name of the limited liability company by any manager or other person who has been delegated the right and power to manage the business and affairs of the limited liability company, or if no managers or such other person has been selected, by any member of the limited liability company.)

PRIVACY ADVISORY: Information such as social security number, date of birth, maiden name, or financial institution account numbers is NOT required to be included in business entity documents filed with the Office of the Clerk of the Commission. Any information provided on these documents is subject to public viewing.

SEE INSTRUCTIONS ON THE REVERSE

Commonwealth of Virginia



STATE CORPORATION COMMISSION

Richmond, October 14, 2010

This is to certify that the certificate of organization of

**Construction Engineering & Scheduling Consulting
Engineers, PLC**

was this day issued and admitted to record in this office and that the said limited liability company is authorized to transact its business subject to all Virginia laws applicable to the company and its business. Effective date: October 14, 2010



State Corporation Commission

Attest:

Joel H. Pesh
Clerk of the Commission

Commonwealth of Virginia



STATE CORPORATION COMMISSION

Richmond, December 14, 2016

This is to certify that a certificate of authority to transact business in Virginia was this day issued and admitted to record in this office for

**American Geotechnical & Environmental Services,
Inc.**

a corporation organized under the laws of PENNSYLVANIA and that the said corporation is authorized to transact business in Virginia, subject to all Virginia laws applicable to the corporation and its business.



State Corporation Commission

Attest:

Joel H. Beck
Clerk of the Commission

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON
05-31-2021

NUMBER
2705094714

BOARD FOR CONTRACTORS
CLASS A CONTRACTOR
CLASSIFICATIONS H/H



BLYTHE DEVELOPMENT CO.
1415 E WESTINGHOUSE BLVD
CHARLOTTE, NC 28273



Mary Brock-Vaughan
Mary Brock-Vaughan, Acting Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)
(DETACH HERE)



COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

CLASS A BOARD FOR CONTRACTORS
CONTRACTOR

CLASSIFICATIONS H/H
NUMBER: 2705094714 EXPIRES: 05-31-2021

BLYTHE DEVELOPMENT CO
1415 E WESTINGHOUSE BLVD
CHARLOTTE, NC 28273



(FOLD)

Status can be verified at <http://www.dpor.virginia.gov>

DPOR-PC (02/2017)

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON
12-31-2021

NUMBER
0405000456

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
PROFESSIONAL CORPORATION REGISTRATION

PROFESSIONS: LA, LS, ENG



TIMMONS GROUP INC
1001 BOULDERS PKWY STE 300
RICHMOND, VA 23225



Mary Brock-Vaughan
Mary Brock-Vaughan, Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

DPOR COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR APELSCIDLA
PROFESSIONAL CORPORATION REGISTRATION
NUMBER: 0405000456 EXPIRES: 12-31-2021
PROFESSIONS: LA, LS, ENG
TIMMONS GROUP INC
1001 BOULDERS PKWY STE 300
RICHMOND, VA 23225



(FOLD)

Status can be verified at <http://www.dpor.virginia.gov>

DPOR-PC (02/2017)

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON

12-31-2021

NUMBER

0407005783

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY REGISTRATION

PROFESSIONS: ENG



CES CONSULTING LLC
23475 ROCK HAVEN WAY
SUITE 255
DULLES, VA 20166



Mary Broz-Vaughan
Mary Broz-Vaughan, Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)



COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

BOARD FOR APELSCIDLA

BUSINESS ENTITY REGISTRATION

NUMBER: 0407005783 EXPIRES: 12-31-2021

PROFESSIONS: ENG

CES CONSULTING LLC

23475 ROCK HAVEN WAY

SUITE 255

DULLES, VA 20166



(FOLD)

Status can be verified at <http://www.dpor.virginia.gov>

DPOR-PC (02/2017)

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON

02-28-2022

NUMBER

0411001485

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY BRANCH OFFICE REGISTRATION

PROFESSIONS: ENG



AMERICAN GEOTECHNICAL & ENVIRONMENTAL
SERVICES INC
1765 GREENSBORO STATION PL STE 900
MCLEAN, VA 22102



Mary Broz-Vaughan
Mary Broz-Vaughan, Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

DPOR COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR APELSCIDLA
BUSINESS ENTITY BRANCH OFFICE REGISTRATION
NUMBER: 0411001485 EXPIRES: 02-28-2022
PROFESSIONS: ENG
AMERICAN GEOTECHNICAL & ENVIRONMENTAL SERVICES INC
1765 GREENSBORO STATION PL STE 900
MCLEAN, VA 22102



(FOI)

DPOR-PC (02/2017)

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

9960 Mayland Drive, Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

EXPIRES ON
12-31-2021

NUMBER
0407007356

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS
AND LANDSCAPE ARCHITECTS
BUSINESS ENTITY REGISTRATION

PROFESSIONS: ENG



AMERICAN GEOTECHNICAL & ENVIRONMENTAL
SERVICES INC
4 GRANDVIEW CIRCLE STE 100
CANONSBURG, PA 15317



Mary Broz-Vaughan
Mary Broz-Vaughan, Director

Status can be verified at <http://www.dpor.virginia.gov>

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)



COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR APELSCIDLA
BUSINESS ENTITY REGISTRATION

NUMBER: 0407007356 EXPIRES: 12-31-2021

PROFESSIONS: ENG

AMERICAN GEOTECHNICAL & ENVIRONMENTAL SERVICES INC
4 GRANDVIEW CIRCLE STE 100
CANONSBURG, PA 15317



(FOLIO)

Status can be verified at <http://www.dpor.virginia.gov>

DPOR-PC (02/2017)



Attachment 4.2.5

SCC & DPOR Registration Information Form



ATTACHMENT 4.2.5

I-81 MM 48 Northbound Acceleration Lane Extension

State Project No. 0081-086-834 PE101, C501

SCC and DPOR Information

Offerors shall complete the table and include the required state registration and licensure information. By completing this table, Offerors certify that their team complies with the requirements set forth in Section 4.2.5 and that all businesses listed are active and in good standing.

SCC & DPOR INFORMATION FOR BUSINESSES (RFP Sections 4.2.5.1 and 4.2.5.2)							
Business Name	SCC Information (4.2.5.1)			DPOR Information (4.2.5.2)			
	SCC Number	SCC Type of Corporation	SCC Status	DPOR Registered Address	DPOR Registration Type	DPOR Registration Number	DPOR Expiration Date
Blythe Development Co.	F1627514	Stock Corporation	Active	1415 E. Westinghouse Blvd., Charlotte, NC 28273	Contractor	2705094714	05-31-2021
Timmons Group, Inc.	02640431	Stock Corporation	Active	1001 Boulders Pkwy, Suite 300, Richmond, VA 23225	PC-Professional Corporation/Engineering	0405000456	12-31-2021
CES Consulting LLC	S3416007	Limited Liability Company	Active	23475 Rock Haven Way, Suite 255, Dulles, VA 20166	LLC-Limited Liability Company/Business Entity/Engineering	0407005783	12-31-2021
American Geotechnical & Environmental Services, Inc.	F2045856	Stock Corporation	Active	1765 Greensboro Station PI, Ste. 900 McLean, VA 22102	Corporation/Branch office/Engineering	0411001485	02-28-2022
American Geotechnical & Environmental Services, Inc.	F2045856	Stock Corporation	Active	4 Grandview Circle, Suite 100 Canonsburg, PA 15317	Corporation/Business Entity/Engineering	0407007356	12-31-2021



Attachment 4.2.6(a)

Lead Contractor Work History Forms



ATTACHMENT 4.2.6(a)

LEAD CONTRACTOR - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

a. Project Name & Location	b. Name of the prime design consulting firm responsible for the overall project design.	c. Contact information of the Client or Owner and their Project Manager who can verify Firm's responsibilities.	d. Contract Completion Date (Original)	e. Contract Completion Date (Actual or Estimated)	f. Contract Value (in thousands)		g. Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.(in thousands)
					Original Contract Value	Final or Estimated Contract Value	
Name: Reconstruction and widening of I-40 Business in Winston Salem, NC Location: Forsyth Co., NC	Name: HDR, Inc	Name of Client/ Owner: NCDOT Phone: 704.480.9020 Project Manager: Wright Archer, PE Phone: 336.681.5912 Email: warcher@ncdot.gov	11/2021	10//2020	\$99,190	\$119,000	\$71,000
<p>h. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on <u>this</u> Project, so the relevancy of that work can be considered accordingly. The Work History Form shall include only one singular project. Projects with multiple phases, segments, elements, and/or contracts shall not be considered a single project. If a project listed includes multiple phases, segments, elements, and/or contracts, the Offeror's Proposal may be rendered non-responsive. In any case, only the first phase, segment, element, and/or contract listed will be evaluated.</p>							
<p>This project fulfills the requirement for a construction project that includes widening of an existing interstate highway or interstate highway ramp.</p> <p>Blythe Development Co performed as the Design Builder for this project. This Design Build project was a fully integrated Joint Venture. Blythe Development was the minority partner but all work was performed in an integrated situation. The scope of this project was a complete reconstruction of I-40 Business in downtown Winston Salem, NC. The reconstruction replaced and / or installed 11 bridges for both vehicular and pedestrian use. The typical sections required widening of the entire roadway section and reconfiguration and improvements to the entire facility. The reconfiguration required major horizontal and vertical alignment changes. Scopes of work included design, permitting, demolition, excavation, drainage, erosion control, water and sewer, MSE and soil nail walls, sound walls, stone base, paving, traffic markings, and ITS. The excavation also included approximately 30,000 cubic yards of mass rock which required blasting to be performed in a downtown urban environment.</p> <p>RELEVANT PROJECT ELEMENTS Interstate Widening: As part of the JV D-B Team, Blythe managed and executed the reconstruction of I-40 Business to allow for better traffic flow through the complete reconstruction and widening of the facility. This included redesign and construction of the typical sections adding width to the facility and design improvements to the ingress / egress of the facility with the reconfiguration of the ramps and acceleration / deceleration lanes.</p> <p>SIMILAR SCOPE OF WORK:</p> <ul style="list-style-type: none"> ✓ Design-Build ✓ Maintenance of Traffic ✓ Roadways ✓ Survey ✓ Interstate widening ✓ Environmental ✓ Geotechnical ✓ Survey ✓ Traffic Control Devices ✓ Transportation Management Plan ✓ Rock Excavation ✓ QA/QC ✓ Guardrail ✓ Construction Engineering and Inspection 							
<div style="display: flex; justify-content: space-around;">   </div>							
<p>Similar Scope and Complexity</p> <ul style="list-style-type: none"> ✓ Interstate Widening ✓ Rock Excavation with blasting <p>Successful Delivery</p> <ul style="list-style-type: none"> ✓ This project was delivered well ahead of the RFP completion date. The JV committed to a substantial completion date of 12/2019 in the technical proposal but this date was pushed until 10/ 2020 due to extra work requested by the NCDOT <p>Consistency of Personnel Richard Kirkman (Blythe)</p> <ul style="list-style-type: none"> ✓ Role: Assistant Design Build Manager. Mr. Kirkman assumed this role shortly after award of the contract when he was promoted to the Division Manager Position of Blythe Developments Public Division. ✓ Mr. Kirkman ensured that the Blythe Development Co maintained their presence on the project to allow for the integrated JV to work as designed. This allowed controlling resources that were required for the JV to maintain the project schedule and budget. Mr. Kirkman will be responsible for similar duties on the I-81 Smyth County Project. 							

ATTACHMENT 4.2.6(a)

LEAD CONTRACTOR - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

a. Project Name & Location	b. Name of the prime design consulting firm responsible for the overall project design.	c. Contact information of the Client or Owner and their Project Manager who can verify Firm's responsibilities.	d. Contract Completion Date (Original)	e. Contract Completion Date (Actual or Estimated)	f. Contract Value (in thousands)		g. Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.(in thousands)
					Original Contract Value	Final or Estimated Contract Value	
Name: New Interchange at Macy Grove and I-40 Business Location: Forsyth Co., NC	Name: RK&K	Name of Client/ Owner: NCDOT Phone: 704.480.9020 Project Manager: Wright Archer, PE Phone: 336.681.5912 Email: warcher@ncdot.gov	12/2015	10/2015	\$38,825	\$38,438 (Reduced because of Value Engineering proposals)	\$21,525
<p>h. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on this Project, so the relevancy of that work can be considered accordingly. The Work History Form shall include only one singular project. Projects with multiple phases, segments, elements, and/or contracts shall not be considered a single project. If a project listed includes multiple phases, segments, elements, and/or contracts, the Offeror's Proposal may be rendered non-responsive. In any case, only the first phase, segment, element, and/or contract listed will be evaluated.</p>							
<p>This project fulfills the requirement for a project on an interstate highway that includes maintenance of traffic as well as traffic control for traffic volumes exceeding 10,000 vehicles a day.</p> <p>Blythe Development Co performed as the Design Builder for this project. This fast-track, Blythe Development-led design-build project consisted of the construction of a new interchange and three bridges at Macy Gove and I-40 Business to enable traffic to flow with the highest efficiency both in its final pattern and temporary patterns throughout the phasing required for this project. As the Design Build Contractor, Blythe was 100 percent responsible for all aspects of construction and design, including highways and structures, maintenance of traffic, environmental permits and protection, public relations, coordination with adjacent properties, and utility protection and relocation. Daily coordination occurred on-site and weekly meetings were held. The scope of the project included the demolition and removal of the existing bridge over I-40 business that carried approximately 55,000 vehicles a day with a new 156-foot, single-span structural steel bridge with MSE walls used to minimize span length. Two additional bridges were included as part of this project scope and were constructed to carry Macy Grove Road traffic over a NSRR and over East Mountain Street. With traffic control and safety being of paramount concern, much of the construction was completed at night and during off-peak traveling.</p> <p>RELEVANT PROJECT ELEMENTS Maintenance of Traffic: Similar to what may be utilized on the I-81 lane addition with phased construction required shifting traffic to allow for a systematic coordination of traffic. Due the high number of vehicles thru the project daily, continuous communication with the traveling public was required. Interstate Widening: The D-B Team managed and built additional access including acceleration and deceleration lanes to accommodate this interchange.</p> <p>SIMILAR SCOPE OF WORK:</p> <ul style="list-style-type: none"> ✓ Design-Build ✓ Maintenance of Traffic ✓ Roadways ✓ Survey ✓ Interstate widening ✓ Environmental ✓ Geotechnical ✓ Traffic Control Devices ✓ Transportation Management Plan ✓ QA/QC ✓ Guardrail 							
					<p>Similar Scope and Complexity ✓ MOT</p> <p>Successful Delivery ✓ This project was delivered with a perfect safety record. There were no recordable safety incidents for the construction team or the travelling public. The project was also delivered on budget for the original scope.</p> <p>Consistency of Personnel Mike Parker (Blythe) ✓ Role: Construction Manager ✓ A large part of the success of this project was Mr. Parker's performance with both scheduling and execution of all construction activities</p> <p>Richard Kirkman (Blythe) ✓ Role: Design Build Coordinator ✓ A large part of the success of the project was the role of Richard Kirkman. He was the liaison between the construction and design teams and kept both sides focused on the most critical parts of the project. He will serve in a similar role on the I-81 Smyth County Project</p>		
					 		

ATTACHMENT 4.2.6(a)

LEAD CONTRACTOR - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

a. Project Name & Location	b. Name of the prime design consulting firm responsible for the overall project design.	c. Contact information of the Client or Owner and their Project Manager who can verify Firm's responsibilities.	d. Contract Completion Date (Original)	e. Contract Completion Date (Actual or Estimated)	f. Contract Value (in thousands)		g. Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.(in thousands)
					Original Contract Value	Final or Estimated Contract Value	
Name: C202594 NC-16 Location: Ashe County, NC	Name: AECOM for NCDOT BID BUILD PROJECT	Name of Client/ Owner: NCDOT Phone: (336) 903-9172 Project Manager: David Poindexter Phone: (336) 903-9172 Email: dpoinexter @ncdot.gov	09/2012	09/2012	\$9,359	\$9,150	\$5,150
<p>h. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on <u>this</u> Project, so the relevancy of that work can be considered accordingly. The Work History Form shall include only one singular project. Projects with multiple phases, segments, elements, and/or contracts shall not be considered a single project. If a project listed includes multiple phases, segments, elements, and/or contracts, the Offeror's Proposal may be rendered non-responsive. In any case, only the first phase, segment, element, and/or contract listed will be evaluated.</p>							
<p>This project fulfills the requirement for a project on a primary or interstate highway that includes rock excavation by blasting or mechanical means.</p> <p>Blythe Development Co performed as the Design Builder for this project. This project consisted of the grading, rock excavation, pre splitting of rock, drainage, retaining walls, erosion control, stone base and paving in order to improve the alignment of NC Primary Route NC -16 in Ashe County, NC. Blythe Development Co was the prime contractor on this project and performed the primary items of work required, excluding retaining walls and paving. This work required extensive rock excavation including the pre splitting of the rock sections. The work was performed adjacent to traffic and required blasting and rock excavation plans that required the protection of the traveling public to perform this work.</p> <p>RELEVANT PROJECT ELEMENTS Rock Excavation on a Primary Route: Blythe Development Co self-performed the rock excavation for this project. A subcontractor was used for the blasting and presplitting requirements on this project. Due to rock quality the presplitting item underran but the majority of the cuts that were made required blasting and rock excavation.</p> <p>SIMILAR SCOPE OF WORK:</p> <ul style="list-style-type: none"> ✓ Maintenance of Traffic ✓ Roadways ✓ Survey ✓ Geotechnical ✓ Traffic Control Devices ✓ Rock Excavation ✓ Transportation Management Plan ✓ Guardrail 							<p><u>Similar Scope and Complexity</u> ✓ Rock Excavation</p> <p><u>Successful Delivery</u> ✓ This project had an overall completion that met the contract requirements. The Rock Excavation scope of work was performed in an efficient manner.</p> <p><u>Consistency of Personnel</u> ✓ Richard Kirkman was Division Manager of BDC's Structures division at this time and managed the culvert construction for this project. His leadership shown on this project is expanded for the I-81 Smyth passing lane project</p>
							



Attachment 4.2.6(b)

Lead Designer Work History Forms



ATTACHMENT 4.2.6(b)

LEAD DESIGNER - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

a. Project Name & Location	b. Name of the prime/ general contractor responsible for overall construction of the project.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.	d. Construction Contract Start Date	e. Construction Contract Completion Date (Actual or Estimated)	f. Contract Value (in thousands)		g. Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.(in thousands)
					Construction Contract Value (Original)	Construction Contract Value (Actual or Estimated)	
Name: I-95/Russell Road Interchange Improvements Location: Quantico, VA	Name: Hensel Phelps Construction Company DESIGN BUILD	Name of Client.: Hensel Phelps Construction Co. Phone: 703.828.3200 Project Manager: Andrew George Phone: 702.828.3200 Email: ageorge@henselphelps.com	04/2010	08/2012	\$10,000	\$10,000	\$800

h. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant. The Work History Form shall include only one singular project. Projects with multiple phases, segments, elements, and/or contracts shall not be considered a single project. If a project listed includes multiple phases, segments, elements, and/or contracts, the Offeror's Proposal may be rendered non-responsive. In any case, only the first phase, segment, element, and/or contract listed will be evaluated.

This project fulfills the requirement for a project that includes widening of an existing interstate or interstate highway ramp.

As **prime designer** on the Design-Build team, **Timmons Group staff from the Richmond, Virginia office** provided traffic and transportation design engineering, environmental, landscape architecture and land surveying services for the \$375 million Military Department (MILDEP) Collocate Investigative Agencies project at Marine Corps Base Quantico. The primary access point serving this 735,000 square foot facility is the I-95 interchange at Russell Road (Exit 148) in Prince William County.

Collaborative team effort delivered this project on time and under budget. Early on, we established a clear chain of command and communication process that helped us navigate through all of the various stakeholders and review staff (NAVFAC, VDOT, FHWA (indirectly through VDOT), Quantico Marine Corps DPW), and multiple contractor partners. In addition, we developed detailed MOT plans and ramp improvements to the existing I-95/Russell Road interchange that involved temporary signals and the ramp nodes (as well as permanent signals) in keeping with an approved IMR.

Timmons Group was the lead designer of the transportation aspects of this project and included the following:

Civil and Roadway Design

- **Increasing the capacity of the I-95 interchange (Exit 148) by widening and reconfiguring the existing interstate highway ramps;**
- Widening over two miles of Russell Road from a 2-lane rural to a 4-lane urban section;
- Designed 1000' of new 4-lane roadway and turn lane improvements;
- Resurfacing and rehabilitating bituminous roadways to comply with applicable VDOT and UFC standards; and
- Developed and presented multiple geometric design options to protect stakeholder interests.

Hydrology, Hydraulics, and Drainage

- Developed extensive drainage improvements and stormwater management facilities to satisfy Virginia stormwater regulations.

Utility Design and Coordination

- Protected and coordinated the relocation of MCBQ fiber optic lines and private utilities.

Traffic Engineering

- Designed five new signalized intersections;
- Prepared a "Type C" (most stringent VDOT requirement) Transportation Management Plan (TMP) that includes detailed traffic operations modeling and maintenance of traffic plans illustrating how lane closures will impact traffic operations; and
- Developed traffic signal timing plans for three temporary signals necessitated by lane closures and limited ramp capacity during key stages of construction.



Structural Design

- Incorporated 600' of roadside retaining walls due to limited right-of-way availability;

Environmental

- Identified environmental constraints, including the endangered small whorled pogonia and extensive waters of the U.S. located within the project footprint and utilizing the appropriate avoidance and minimization techniques to obtain the necessary environmental permits.

Maintenance of Traffic (MOT)

- Performed operational studies that demonstrated that during construction, the traffic would have no impacts or backups onto the interstate ramps;
- Required design of temporary traffic signals at the interstate nodes;
- Existing two lane bridge carrying traffic on Russell Road was just a few hundred feet away from the interstate ramps; and
- Base had a very high one directional peak hour flow and therefore all MOT plans were focused on these movements.

Geotechnical

- Mitigated poor subsurface conditions, including high groundwater, corrosive Quantico slate and unforeseen buried debris.

Stakeholder Coordination

- Coordinated with numerous stakeholders including NAVFAC Washington, A/E#1 (NAVFAC's consultant), MCBQ (users and security personnel), ROICC office, VDOT, GEC (VDOT's "general engineering consultant"), multiple architects and other subcontractors.



Similar Scope and Complexity

- ✓ Design-build
- ✓ Interstate
- ✓ Virginia project
- ✓ Maintenance of traffic design
- ✓ Environmental permitting
- ✓ Utility coordination and design

Successful Delivery

- ✓ Delivered within budget
- ✓ Delivered on-time
- ✓ NAVFAC Commanders 2011 Design Honor Award
- ✓ DBIA 2012 Design Excellence Merit Award

ATTACHMENT 4.2.6(b)

LEAD DESIGNER - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

a. Project Name & Location	b. Name of the prime/ general contractor responsible for overall construction of the project.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.	d. Construction Contract Start Date	e. Construction Contract Completion Date (Actual or Estimated)	f. Contract Value (in thousands)		g. Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.(in thousands)
					Construction Contract Value (Original)	Construction Contract Value (Actual or Estimated)	
Name: Routes 288 and 60 Roadway Improvements Location: Chesterfield County, VA	Name: American Infrastructure	Name of Client.: Zaremba Group Phone: 703.442.9500 Project Manager: Alan Bellis Phone: 703.442.9500 Email: abellis@zarembagroup.com	07/2007	05/2009	\$20,000	\$20,000	\$275

h. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant. The Work History Form shall include only one singular project. Projects with multiple phases, segments, elements, and/or contracts shall not be considered a single project. If a project listed includes multiple phases, segments, elements, and/or contracts, the Offeror's Proposal may be rendered non-responsive. In any case, only the first phase, segment, element, and/or contract listed will be evaluated.

This project fulfills the requirement for a project that includes maintenance of traffic as well as traffic control for traffic volumes exceeding 10,000 vehicles a day.

Timmons Group's Richmond office was the **prime designer**, and provided surveying and engineering design services for roadway improvements at the interchange of Route 60 and Route 288 in Chesterfield County. Timmons Group worked with Chesterfield County, VDOT, four developers and their respective engineers to incorporate all interests into one comprehensive and coordinated project.

This project was developed similar to a design-build style contract. It delivered roadway improvements along a limited access State roadway (Route 288) including the extension of a Collector-Distributor (C-D) roadway with new on and off interchange ramps (both north and south of Route 60), widening of a major State primary (Route 60) from 4 to 8 lanes, and new four lane divided collector roads with three multi-lane roundabouts and one single lane roundabout. The project also involved the widening of the Route 60 eastbound bridge and the integration of a new MSE walled system to tie into the existing ones.

The complex road design features associated with this project included a major comprehensive traffic study that had to be vetted by VDOT and the County. Close coordination with VDOT staff at the residency, district and central office levels was vital to the successful delivery of this project. Even though Route 288 had just been completed a few years prior to the undertaking of this project, Timmons Group identified ten items that at the time required design exceptions/waivers to widen Route 288. **Timmons Group provided phased design plans and Route 288 maintenance of traffic plans and traffic control** to accelerate the project.

The Community Development Authority (partnership involving private developer and County) had a finite amount of money to design, permit and construct the necessary improvements. Timmons Group adjusted design of the project to deliver project within budget.

Roadway and Traffic Control Design

- **VA Route 288** – approximately 10,000 feet of widening along this limited access highway including collector-distributor roadways, four new ramps and ramp connections, with extensive MOT plans
- **US Route 60** – the transformation of an existing four-lane divided rural principal arterial roadway into an eight-lane urban corridor
- **Watkins Centre Parkway/Otterdale Road** – 3,000 feet of new four-lane divided urban collector as well as the widening of over 2,500 feet of existing roadway and four (4) dual-lane roundabouts
- The traffic signal at Watkins Center Parkway/Route 60 intersection boasted the longest single mast arm in the Central Region, spanning for double lefts, four through lanes and a right turn lane



Hydrology, Hydraulics, and Drainage

- Drainage design for ultimate development & stormwater management design

Traffic Engineering

- Traffic Signal Design
- Pavement Marking Plans
- Traffic Management Plan

Structural Design

- Worked in conjunction with a partner to widen the Route 60 eastbound bridge

Environmental

- Multiphase ESC Plan
- Environmental permitting sketches provided for permit
- Environmental permitting service including perennial stream assessment and RPA determinations
- Water Quality Impact Assessment (WQIA)

Maintenance of Traffic (MOT)

- Work Zone/Maintenance of Traffic Plans for Route 288 and Route 60
- The maintenance of traffic plans fell under the requirements of VDOT's then new TMP requirements
- Sequence of construction plans

Utility Design and Coordination

- Timmons Group coordinated with multiple utility companies to establish what facilities were in the major roadway corridors and to design around their utilities so that the corridor could be developed on schedule

Stakeholder Coordination

- The project was financed through a Community Development Authority (CDA)
- Coordinated with VDOT Central Office in multiple design waivers
- Worked with VDOT on phased construction approval packages



Similar Scope and Complexity

- ✓ Virginia project
- ✓ VDOT coordination
- ✓ Similar project size
- ✓ Maintenance of Traffic design
- ✓ Environmental permitting
- ✓ Utility coordination

Successful Delivery

- ✓ Delivered within budget
- ✓ Delivered on time
- ✓ Met project goals

ATTACHMENT 4.2.6(b)

LEAD DESIGNER - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

a. Project Name & Location	b. Name of the prime/ general contractor responsible for overall construction of the project.	c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities.	d. Construction Contract Start Date	e. Construction Contract Completion Date (Actual or Estimated)	f. Contract Value (in thousands)		g. Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.(in thousands)
					Construction Contract Value (Original)	Construction Contract Value (Actual or Estimated)	
Name: S.R. 0322, Section B05, Potters Mill Gap, Sand Mountain Road Interchange (PennDOT ECMS 96819) Location: Centre County, PA	Name: Glenn O. Hawbaker State College, Pennsylvania	Name of Client.: Pennsylvania Department of Transportation District 2 Phone: (814)531-4295 Project Manager: Greg Sidorick Phone: (814) 531-4295 Email: gsidorick@pa.gov	08/2016	03/2018	\$8,677	\$8,677	\$314 (design fee, excludes drilling services)

h. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant. The Work History Form shall include only one singular project. Projects with multiple phases, segments, elements, and/or contracts shall not be considered a single project. If a project listed includes multiple phases, segments, elements, and/or contracts, the Offeror's Proposal may be rendered non-responsive. In any case, only the first phase, segment, element, and/or contract listed will be evaluated.

This project fulfills the requirement for a project that includes cut slopes in rock on a primary or interstate highway. As a Geotechnical Design subconsultant, American Geotechnical & Environmental Services (A.G.E.S.), Inc. staff from the Canonsburg, Pennsylvania office provided geotechnical design and construction consultation services. The project included the design and construction of cut slopes in rock for a new interchange along a primary highway. The work was conducted in advance of the overall construction of a new 3.75 mile section of four-lane divided highway that included bridges and retaining walls.

Similar Geotechnical Scope and Complexity:

- ✓ Karstic Limestone
- ✓ Steep Cut Slopes with Heights of up to 100 feet
- ✓ Potential Rock Fall Hazards and CRSP Analyses of Cut Slopes
- ✓ Collection of Structural Geologic Data for Stereonet and Kinematic Analyses of Different Cut Slopes
- ✓ Maintenance of Traffic During Subsurface Exploration Program
- ✓ Aggressive Design Schedule

A.G.E.S., Inc. provided the design and support during construction of the rock slope and evaluated results of the production and trim blasting and performance of rockfall catchment ditches. A.G.E.S., Inc. was responsible for the evaluation and design of rock slopes in accordance with the latest edition of FHWA's Rock Slope Manual and TRB's Manual on Rockfall Characteristics and Control, by developing models and establishing rock discontinuity parameters for stability analyses including kinematic and Limit Equilibrium evaluation using DIPS and RockPack III software. A.G.E.S., Inc. developed the standard provision for blasting to the unique geologic conditions identified at the project location. During construction, A.G.E.S., Inc. reviewed pre-split and production blasting plans. Trim blasting of several existing rock outcrops was also evaluated and monitored during construction. The following is a list of specific tasks provided by A.G.E.S., Inc. for the project:

- Subsurface Exploration Program consisting of full-time inspection of approximately 100 borings with total of nearly 4,000 feet of continuous soil and rock sampling primarily to investigate cut slopes and identify potential acid bearing rock formations. In addition, five (5) angled borings as deep as 300 feet were drilled during construction to verify the presence of vein pyrite within the bedrock. Maintenance of Traffic was required during subsurface exploration program along the existing roadway.
- Laboratory Testing Program consisting of slake durability tests on rock core samples and acid-base accounting testing rock core samples to verify the presence and concentration of sulfur.
- Utilized DIPS and RockPack III to perform stereonet analysis of rock mass for design of cut slope ratios for cut heights of up to 100 feet and performed CRSP analysis for rock catchment area design.
- Cut slopes were optimized to minimize the right-of-way takes. Cuts as steep as 0.75H:1V were required even in soil due to right of way constraints. Steep cuts in soil were treated with soil nails.
- Development of specifications and detail drawings for geotechnical treatments. The details included treatment of cut slopes exposed with acid producing material, treatment of excavated acid producing rock, and sinkhole repair/treatment detail.
- Excavated rock (mainly sandstone and limestone) was crushed and used as select backfill at retaining walls and bridges.





Letter of Submittal

Volume 2





Section 4.2.7

Conceptual Roadway Plans





COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

DESIGN-BUILD CONCEPTUAL PLANS

SMYTH COUNTY
INTERSTATE 81 MM 48 NORTHBOUND
ACCELERATION LANE EXTENSION
FROM: I-81 MM 48.0
TO: I-81 MM 48.8

FHWA 534 DATA 11104

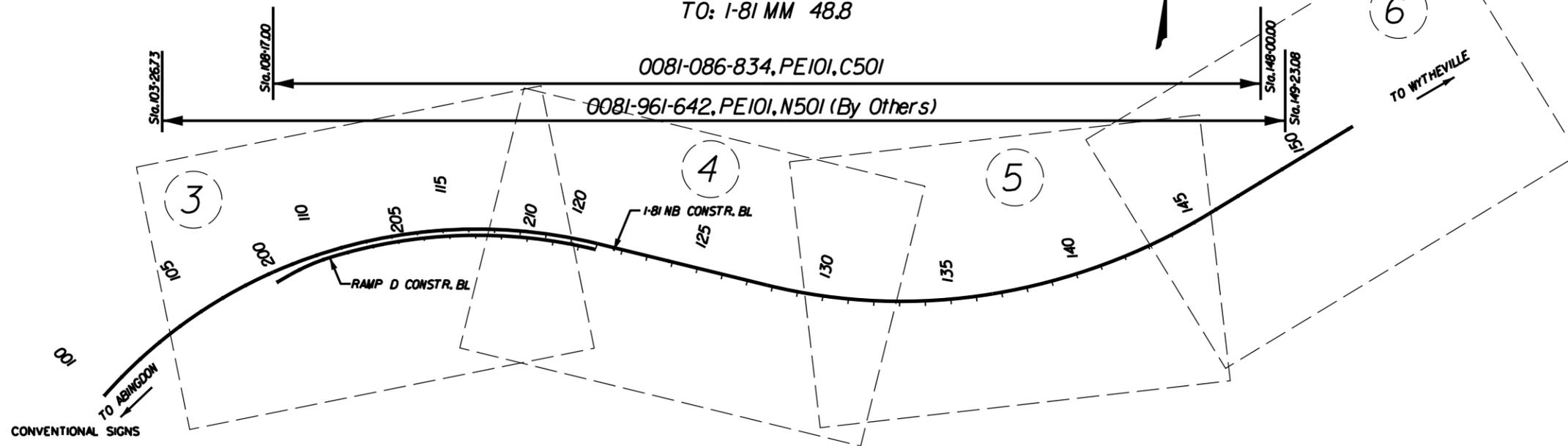
STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.	NHPP-081-K393)	81	(INFO) 0081-086-834 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OpenRoads / GEOPAK).
OpenRoads / GEOPAK Computer Identification No. 116161

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA		
	I-81 NB - GS-INT - RURAL INTERSTATE PRINCIPAL ARTERIAL (ROLLING) DESIGN SPEED = 70 MPH	RAMP D - GS-R - INTERCHANGE RAMP (ROLLING) DESIGN SPEED = 50 MPH
	Fr: I-81 MM 48.0 To: I-81 MM 48.8	Fr: I-81 MM 48.0 To: I-81 MM 48.1
ADT (2018)	14,227	1,333
ADT (2045)	16,919	1,585
DHV	1,095	102
D (%) (design hour)	-	-
T (%) (design hour)	17%	-
V (MPH)	*	*

* SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL AND VERTICAL DESIGN SPEEDS
TIER 2 PROJECT

PROJECT MANAGER Robert Leonard (276) 696-3258 (Bristol)
SURVEYED BY, DATE Johnson, Miralton & Thompson (804) 323-9900
DESIGN BY TIMMONS GROUP (804) 200-6500
SUBSURFACE UTILITY BY, DATE Woodper, Inc. (757) 549-3549



STATE LINE	----
COUNTY LINE	-----
CITY, TOWN OR VILLAGE	-----
RIGHT OF WAY LINE	-----
FENCE LINE	-----
UNFENCED PROPERTY LINE	-----
FENCED PROPERTY LINE	-----
WATER LINE	-----
SANITARY SEWER LINE	-----
GAS LINE	-----
ELECTRIC UNDERGROUND CABLE	-----
TRAVELED WAY	-----
GUARD RAIL	-----
RETAINING WALL	-----
RAILROADS	-----
BASE OR SURVEY LINE	-----

LEVEE OR EMBANKMENT	-----
BRIDGES	-----
CULVERTS	-----
DROP INLET	-----
POWER POLES	-----
TELEPHONE OR TELEGRAPH POLES	-----
TELEPHONE OR TELEGRAPH LINES	-----
HEDGE	-----
TREES	-----
HEAVY WOODS	-----
GROUND ELEVATION	-----
GRADE ELEVATION	-----

Smyth County Population 32,208 (2010 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES			LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES	FEET	MILES			
0081-086-834	PE-101	NHPP-081-K393)		116161	4,381.69	4,381.69	0.830	4,381.69	0.830			PRELIM. ENGR.	FROM: I-81 MM 48.0 TO: I-81 MM 48.8	
	C-501				3,983.00	3,983.00	0.754	3,983.00	0.754			CONSTRUCTION	FROM: I-81 MM 48.0 TO: I-81 MM 48.8	

Project Lengths are based on I-81 NB Constr. Baseline.

ALL CONSTRUCTION IS TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY.

CONCEPTUAL PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT-OF-WAY.



Copyright 2020, Commonwealth of Virginia

PROJECT MANAGER ROBERT LEONARD (276) 696-3258 (BRISTOL)
SURVEYED BY, DATE JOHNSON, MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY TIMMONS GROUP (804) 200-6500
SUBSURFACE UTILITY BY, DATE WOOLPERT, INC. (757) 549-3549

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	2A(1)

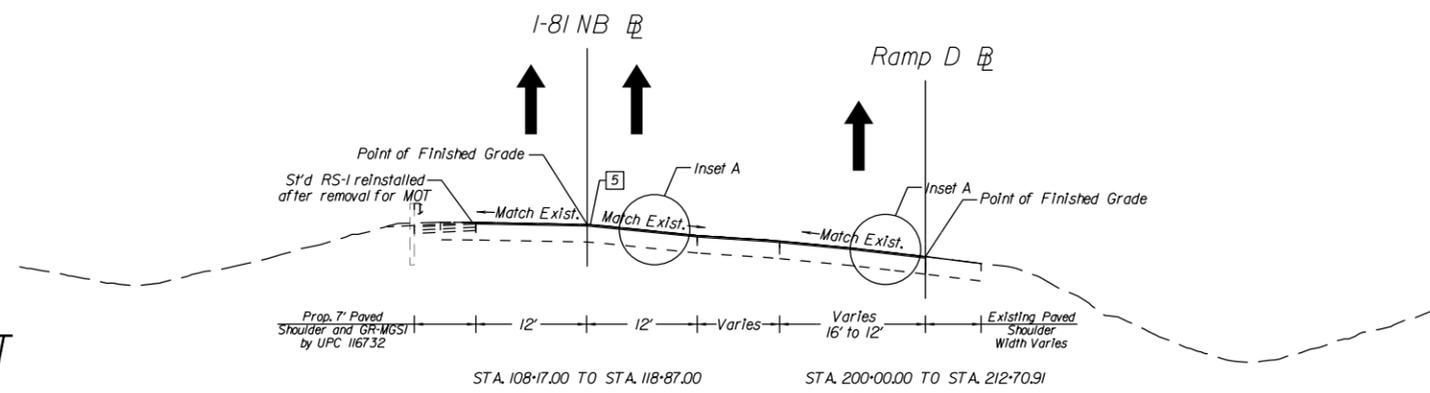
TYPICAL SECTIONS

CONCEPTUAL PLANS

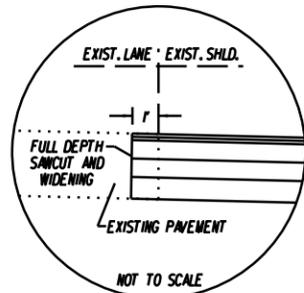
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT-OF-WAY.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

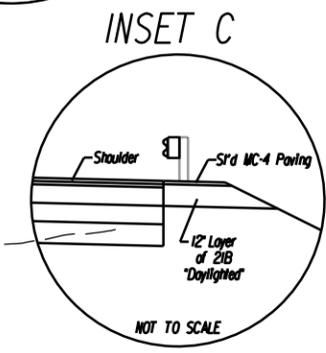
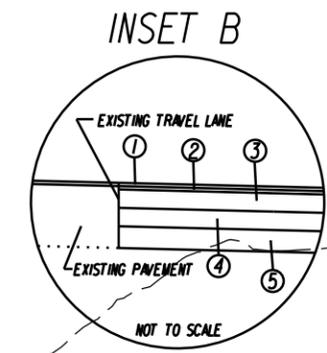
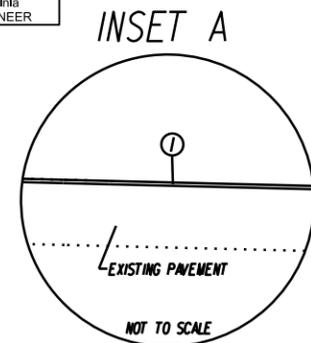
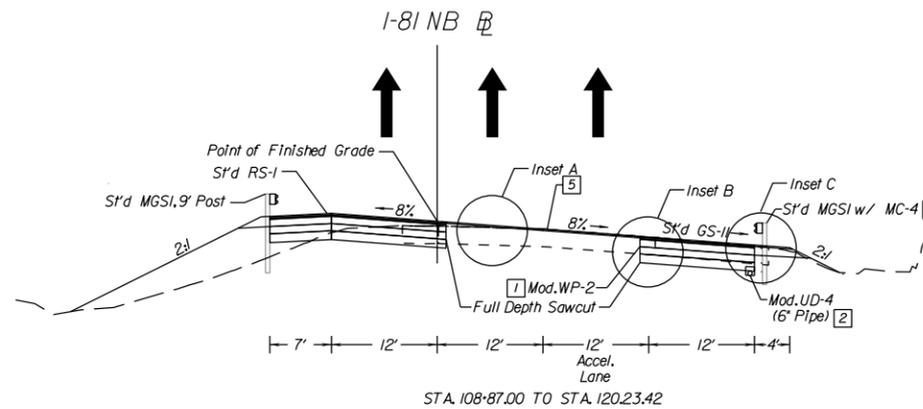
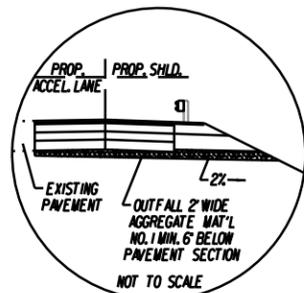
Timmons Group
Richmond, Virginia
ROADWAY ENGINEER



MOD. WP-2 DETAIL INSET



AGGREGATE OUTFALL DETAIL INSET



- PAVEMENT LEGEND**
- ① 2" Asphalt Concrete, Type SM-12.5E (220 Lbs./SY)
 - ② 2" Asphalt Concrete, Type IM-19.DE (230 Lbs./SY)
 - ③ 10" Asphalt Concrete Base Course, Type BM-25.DA
 - ④ 10" Aggregate Base Material, Type I No. 21B (Note: 2" of the 10" is for Levelling Course over No. 1 Aggregate)
 - ⑤ 12" Aggregate Mat'l. No. 1

- NOTE LEGEND**
- 1 Mod. WP-2 Sawcut Exist. Pavement Full Depth on the Exist. Edge of Pavement (See Mod. WP-2 Detail Inset)
 - 2 Adj. ditch as req'd to accommodate UD outfall with 1' freeboard. See plans for Mod. UD-4 and outfall locations.
 - 3 Aggregate Mat'l. No. 1 to be drained by Aggregate Outfall every 500' (Max. 1000'), unless drained by Mod. UD-4 (See Aggregate Outfall Detail Inset)
 - 4 See Plans for Location of Guardrail
 - 5 Mill and Overlay Exist. Surface 2'

NOT TO SCALE	PROJECT 0081-086-834	SHEET NO. 2A(1)
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PROJECT MANAGER ROBERT LEONARD (276) 696-3258 (BRISTOL)
SURVEYED BY, DATE JOHNSON, MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY TIMMONS GROUP (804) 200-6500
SUBSURFACE UTILITY BY, DATE WOOLPERT, INC. (757) 549-3549

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	2A(2)

TYPICAL SECTIONS

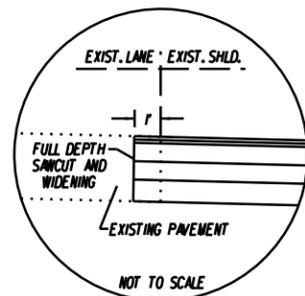
CONCEPTUAL PLANS

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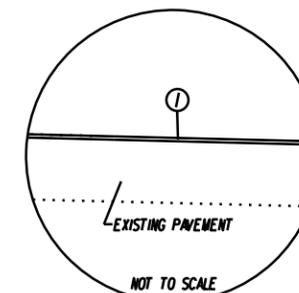
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Timmons Group
Richmond, Virginia
ROADWAY ENGINEER

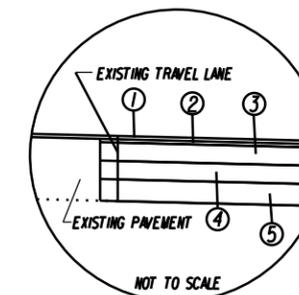
MOD. WP-2 DETAIL INSET



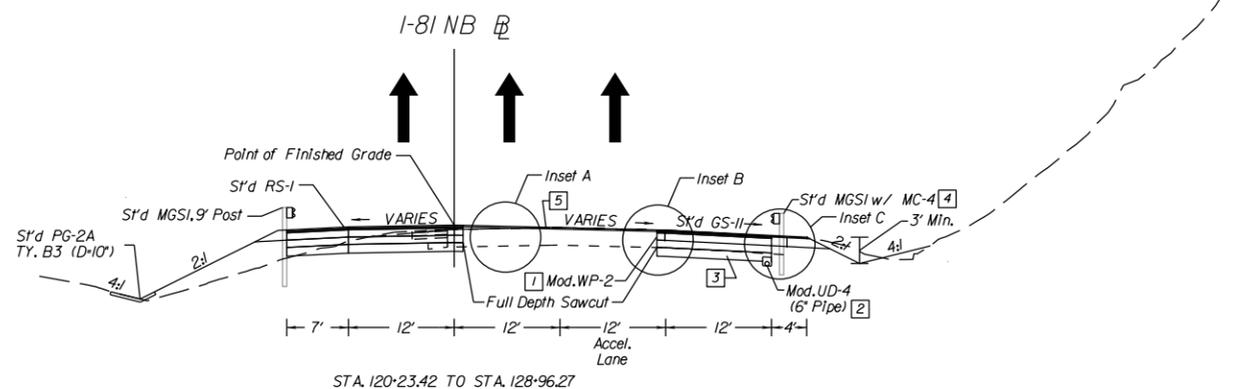
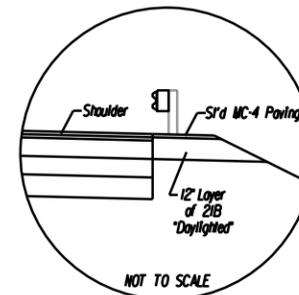
INSET A



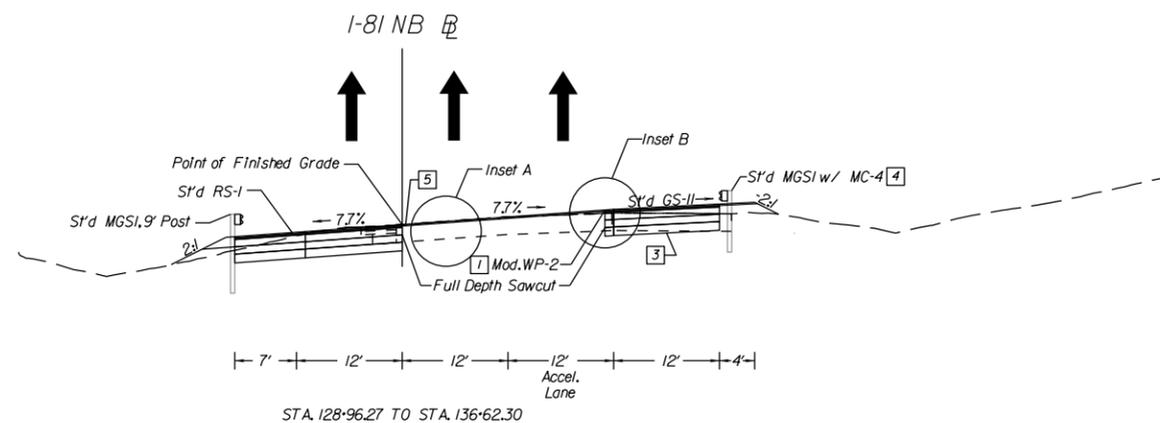
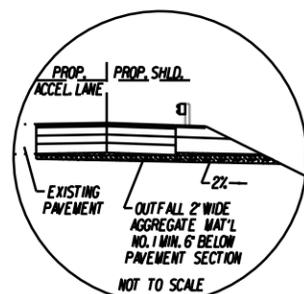
INSET B



INSET C



AGGREGATE OUTFALL DETAIL INSET



PAVEMENT LEGEND

- ① 2" Asphalt Concrete, Type SM-12.5E (220 Lbs./SY)
- ② 2" Asphalt Concrete, Type 1M-19.0E (230 Lbs./SY)
- ③ 10" Asphalt Concrete Base Course, Type BM-25.0A
- ④ 10" Aggregate Base Material, Type I No. 21B (Note: 2" of the 10" is for Leveling Course over No. 1 Aggregate)
- ⑤ 12" Aggregate Mat'l, No. 1

NOTE LEGEND

- ① Mod. WP-2 Sawcut Exst. Pavement Full Depth on the Exst. Edge of Pavement (See Mod. WP-2 Detail Inset)
- ② Adjust ditch as req'd to accommodate UD outfall with 1' freeboard. See plans for Mod. UD-4 and outfall locations.
- ③ Aggregate Mat'l No. 1 to be drained by Aggregate Outfall every 500' (Max. 1000'), unless drained by Mod. UD-4 (See Aggregate Outfall Detail Inset)
- ④ See Plans for Location of Guardrail
- ⑤ Mill and Overlay Exst. Surface 2" (Pavement wedging, where req'd, for superelevation correction)

NOT TO SCALE	PROJECT 0081-086-834	SHEET NO. 2A(2)
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PROJECT MANAGER ROBERT LEONARD (276) 696-3258 (BRISTOL)
 SURVEYED BY, DATE JOHNSON, MIRMIRAN & THOMPSON (804) 323-9900
 DESIGN BY TIMMONS GROUP (804) 200-6500
 SUBSURFACE UTILITY BY, DATE WOOLPERT, INC. (757) 549-3549

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	2A(3)

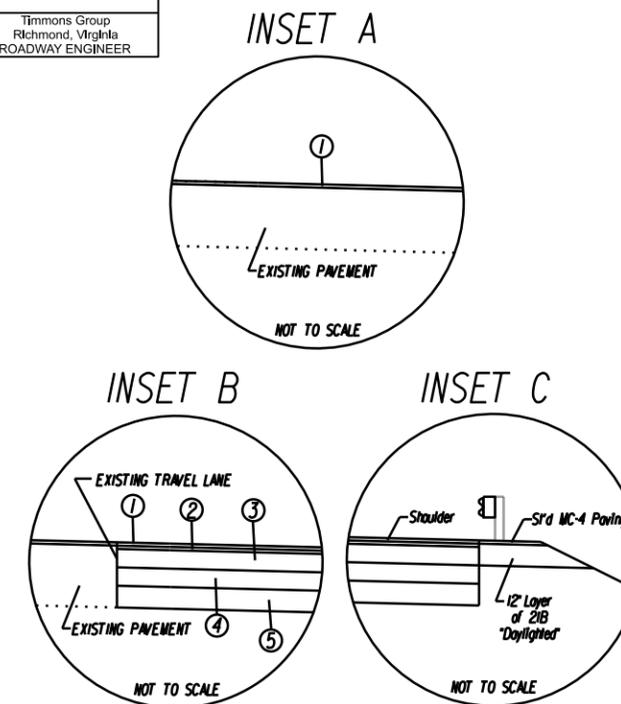
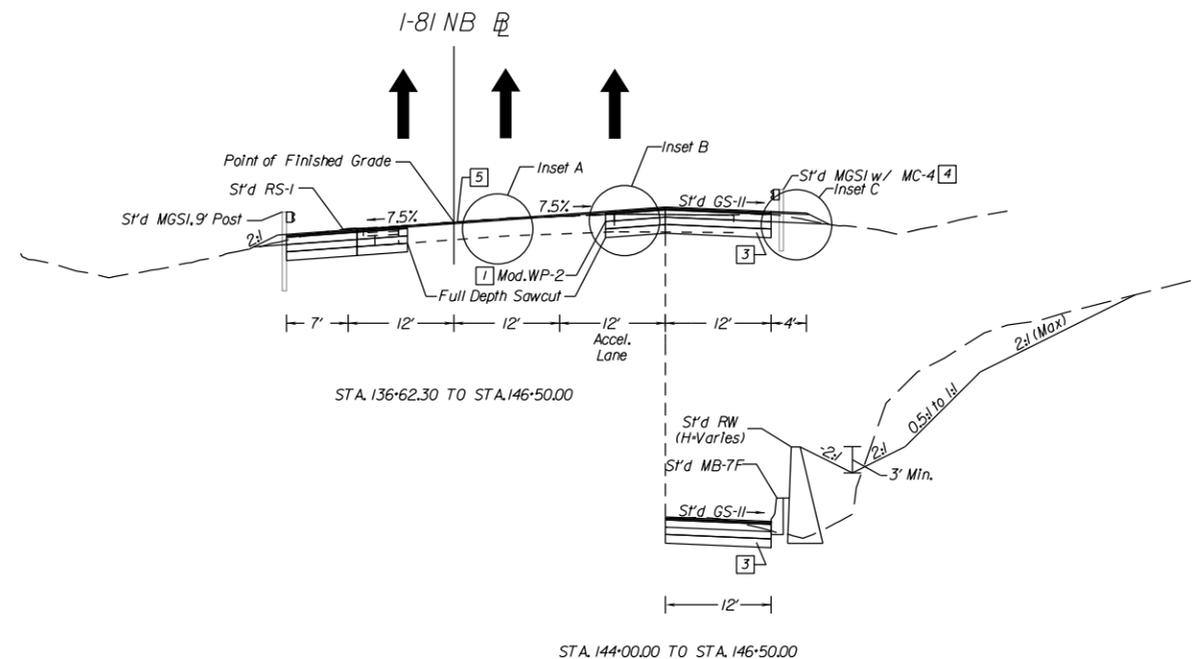
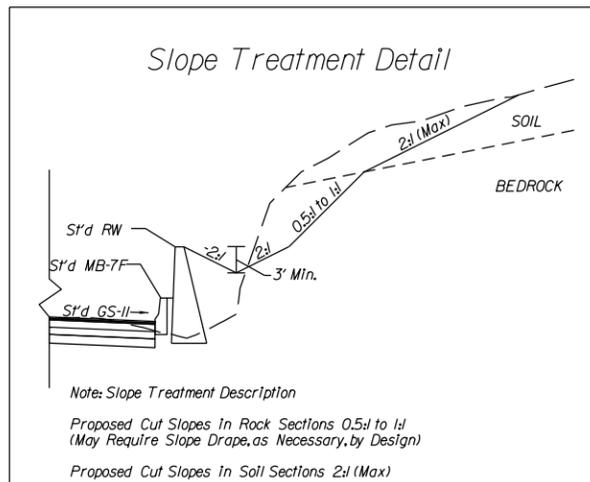
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Timmons Group
Richmond, Virginia
ROADWAY ENGINEER

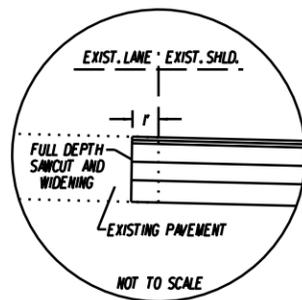
TYPICAL SECTIONS

CONCEPTUAL PLANS

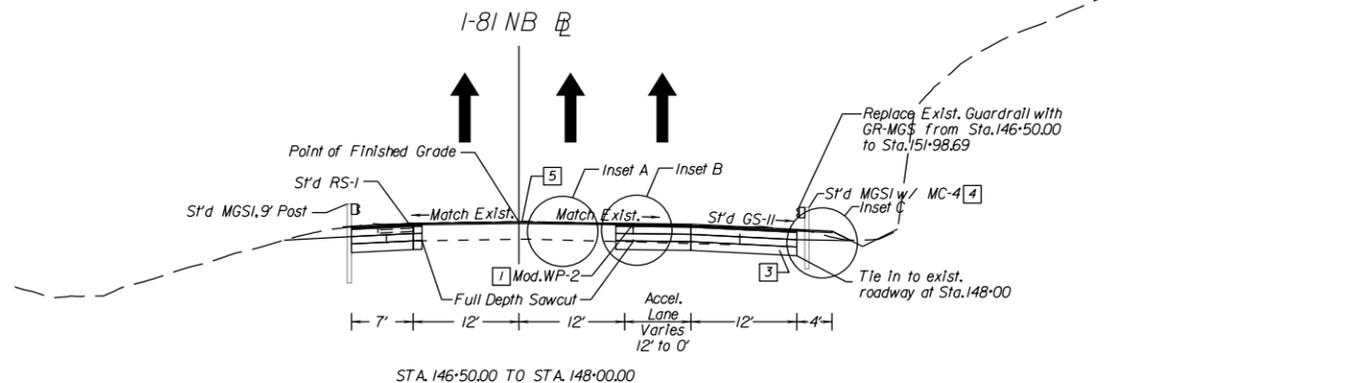
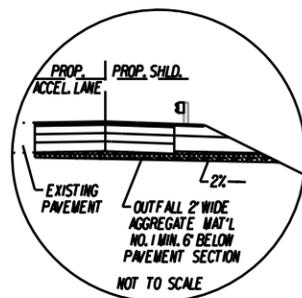
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT-OF-WAY.



MOD.WP-2 DETAIL INSET



AGGREGATE OUTFALL DETAIL INSET



PAVEMENT LEGEND

- ① 2" Asphalt Concrete, Type SM-12.5E (220 Lbs./SY)
- ② 2" Asphalt Concrete, Type 1M-19.0E (230 Lbs./SY)
- ③ 10" Asphalt Concrete Base Course, Type BM-25.0A
- ④ 10" Aggregate Base Material, Type 1 No. 21B (Note: 2" of the 10" is for Leveling Course over No. 1 Aggregate)
- ⑤ 12" Aggregate Mat'l, No. 1

NOTE LEGEND

- ① Mod. WP-2 Sawcut Exist. Pavement Full Depth on the Exist. Edge of Pavement (See Mod. WP-2 Detail Inset)
- ② Adjust ditch as req'd to accommodate UD outfall with 1' freeboard. See plans for Mod. UD-4 and outfall locations.
- ③ Aggregate Mat'l No. 1 to be drained by Aggregate Outfall every 500' (Max. 1000'), unless drained by Mod. UD-4 (See Aggregate Outfall Detail Inset)
- ④ See Plans for Location of Guardrail
- ⑤ Mill and Overlay Exist. Surface 2"

NOT TO SCALE PROJECT 0081-086-834 SHEET NO. 2A(3)

PROJECT MANAGER ROBERT LEONARD (276) 696-3258 (BRISTOL)
 SURVEYED BY, DATE JOHNSON, MIRMIRAN & THOMPSON (804) 323-9900
 DESIGN BY TIMMONS GROUP (804) 200-6500
 SUBSURFACE UTILITY BY, DATE WOOLPERT, INC. (757) 549-3549

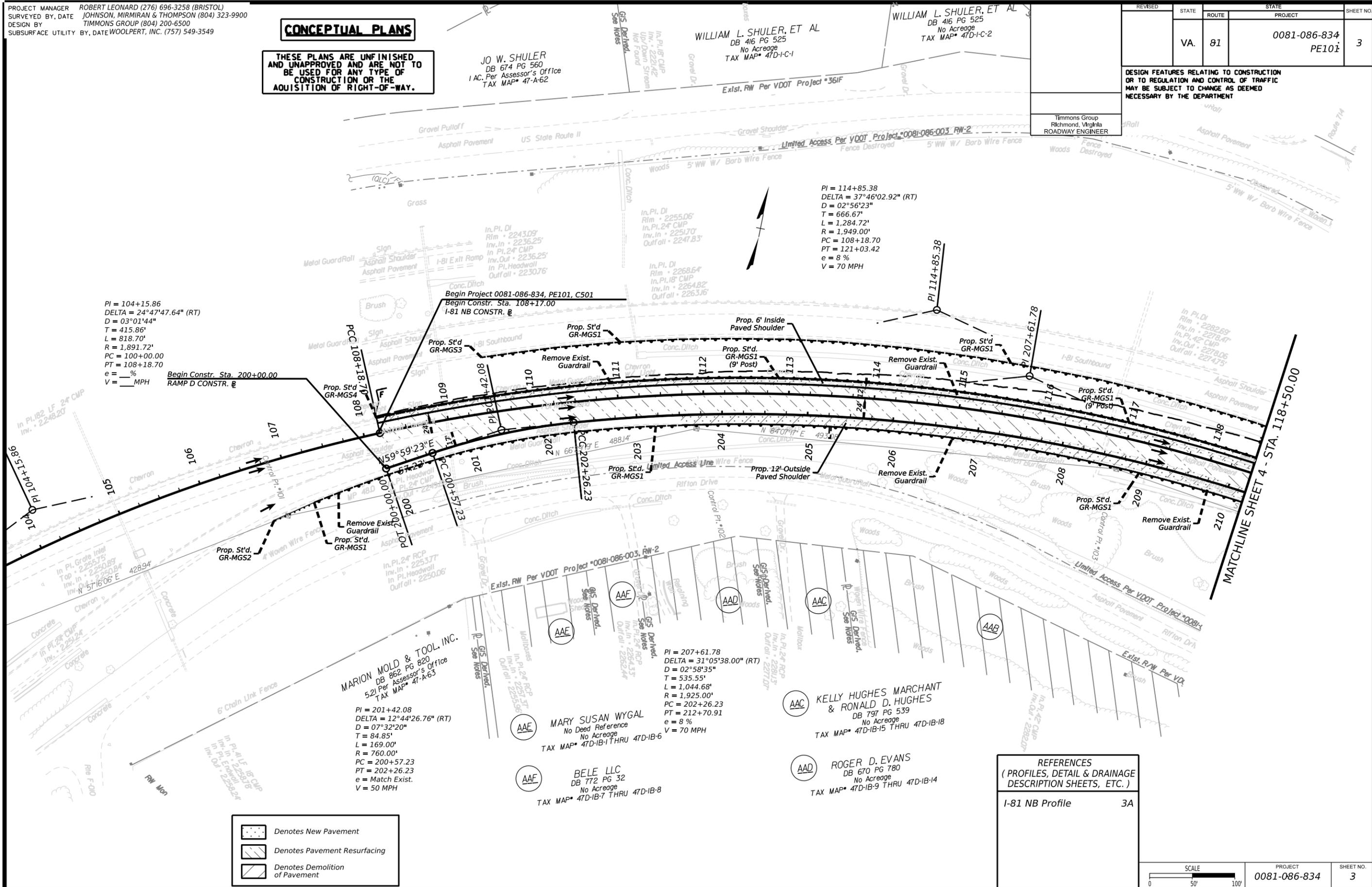
CONCEPTUAL PLANS

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	3

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

Timmons Group
 Richmond, Virginia
 ROADWAY ENGINEER



Denotes New Pavement
 Denotes Pavement Resurfacing
 Denotes Demolition of Pavement

REFERENCES
 (PROFILES, DETAIL & DRAINAGE
 DESCRIPTION SHEETS, ETC.)

I-81 NB Profile 3A

SCALE 0 50' 100'	PROJECT 0081-086-834	SHEET NO. 3
---------------------	-------------------------	----------------

PROJECT MANAGER: ROBERT LEONARD (276) 696-3258 (BRISTOL)
 SURVEYED BY, DATE: JOHNSON, MIRIRAN & THOMPSON (804) 323-9900
 DESIGN BY: TIMMONS GROUP (804) 200-6500
 SUBSURFACE UTILITY BY, DATE: WOOLPERT, INC. (757) 549-3549

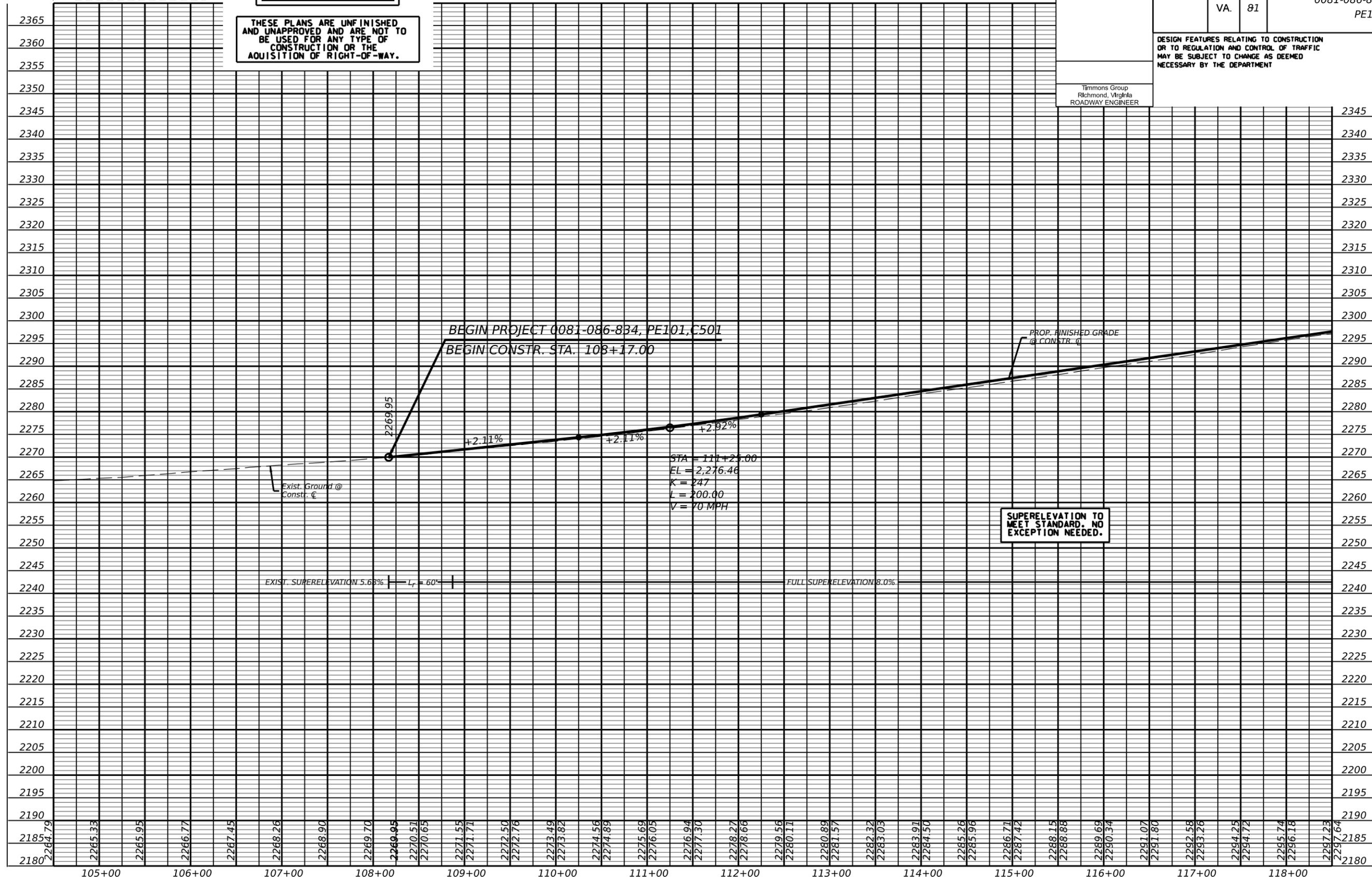
CONCEPTUAL PLANS

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	81		0081-086-834 PE101	3A

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

Timmons Group
 Richmond, Virginia
 ROADWAY ENGINEER



PROJECT MANAGER — ROBERT LEONARD (276) 696-3258 (BRISTOL)
 SURVEYED BY, DATE — JOHNSON, MIRMIRAN & THOMPSON (804) 323-9900
 DESIGN BY — TIMMONS GROUP (804) 200-6500
 SUBSURFACE UTILITY BY, DATE WOOLPERT, INC. (757) 549-3549

CONCEPTUAL PLANS

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 ACQUISITION OF RIGHT-OF-WAY.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	4

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

Timmons Group
 Richmond, Virginia
 ROADWAY ENGINEER

PI = 132+27.59
 DELTA = 23°13'35.20" (LT)
 D = 02°38'03"
 T = 446.99'
 L = 881.70'
 R = 2,175.00'
 PC = 127+80.60
 PT = 136+62.30
 e = 7.7 %
 V = 70 MPH

PI = 114+85.38
 DELTA = 37°46'02.92" (RT)
 D = 02°56'23"
 T = 666.67'
 L = 1,284.72'
 R = 1,949.00'
 PC = 108+18.70
 PT = 121+03.42
 e = 8 %
 V = 70 MPH

PI = 207+61.78
 DELTA = 31°05'38.00" (RT)
 D = 02°58'35"
 T = 535.55'
 L = 1,044.68'
 R = 1,925.00'
 PC = 202+26.23
 PT = 212+70.91
 e = 8 %
 V = 70 MPH

AAB PATRICIA DIMAGGIO, ET AL
 DB 358 PG 102
 9.45 AC, Per Assessor's Office
 TAX MAP# 47D-1B-19
 THRU 47D-1B-52

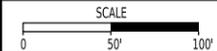
SAM R. RUSSELL
 DB 342 PG 607
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 TAX MAP# 47-A-61A

AAG JACKIE E.C. REEDY
 & BARBARA ANNE REEDY
 DB 1043 PG 200
 No Acreage
 TAX MAP# 47-6-1
 TAX MAP# 47-6-2

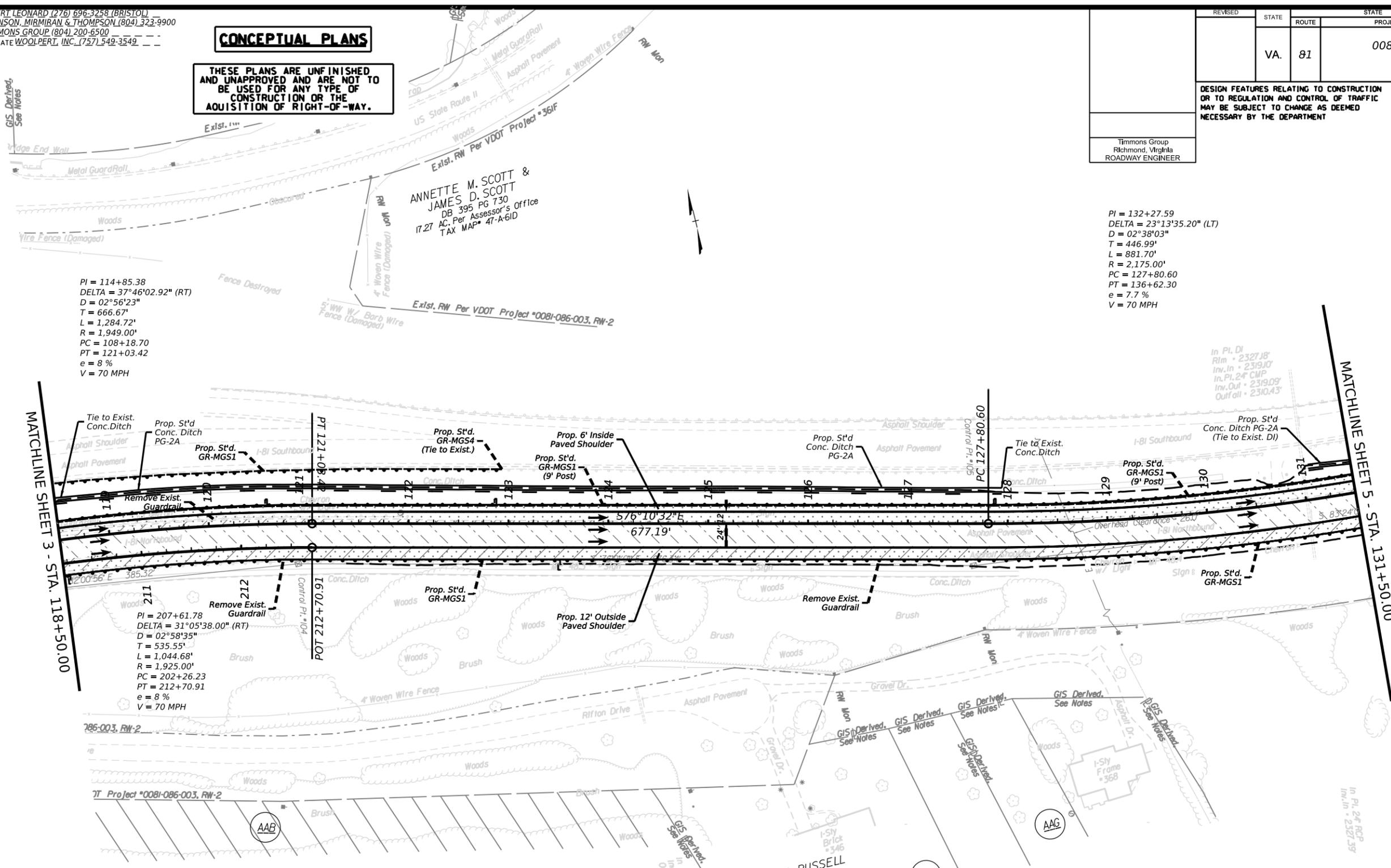
REFERENCES
 (PROFILES, DETAIL & DRAINAGE
 DESCRIPTION SHEETS, ETC.)

I-81 NB Profile	4A
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	Denotes New Pavement
	Denotes Pavement Resurfacing
	Denotes Demolition of Pavement



PROJECT	SHEET NO.
0081-086-834	4



PROJECT MANAGER — ROBERT LEONARD (276) 696-3258 (BRISTOL)
 SURVEYED BY, DATE — JOHNSON, MIRMIRAN & THOMPSON (804) 323-9900
 DESIGN BY — — — — — TIMMONS GROUP (804) 200-6500
 SUBSURFACE UTILITY BY, DATE — WOOLPERT, INC. (757) 549-3549

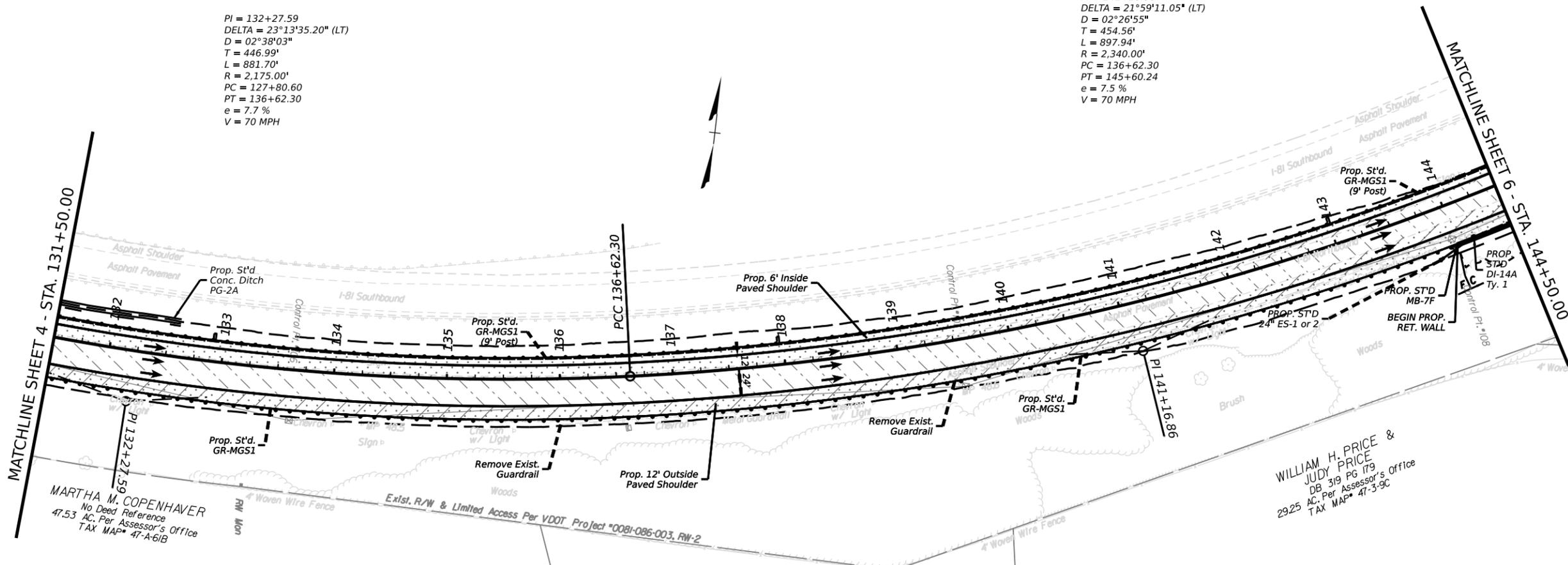
CONCEPTUAL PLANS

THESE PLANS ARE UNFINISHED
 AND UNAPPROVED AND ARE NOT TO
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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	81		0081-086-834 PE101	5
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT					
Timmons Group Richmond, Virginia ROADWAY ENGINEER					

PI = 132+27.59
 DELTA = 23°13'35.20" (LT)
 D = 02°38'03"
 T = 446.99'
 L = 881.70'
 R = 2,175.00'
 PC = 127+80.60
 PT = 136+62.30
 e = 7.7 %
 V = 70 MPH

PI = 141+16.86
 DELTA = 21°59'11.05" (LT)
 D = 02°26'55"
 T = 454.56'
 L = 897.94'
 R = 2,340.00'
 PC = 136+62.30
 PT = 145+60.24
 e = 7.5 %
 V = 70 MPH



MARTHA M. COPENHAVER
 No Deed Reference
 47.53 AC. Per Assessor's Office
 TAX MAP# 47-A-61B

ANNETTE M. SCOTT &
 JAMES D. SCOTT
 DB 353 PG 67
 15 AC. Per Assessor's Office
 TAX MAP# 47-A-61C

WILLIAM H. PRICE &
 JUDY PRICE
 DB 319 PG 179
 29.25 AC. Per Assessor's Office
 TAX MAP# 47-3-9C

	Denotes New Pavement
	Denotes Pavement Resurfacing
	Denotes Demolition of Pavement

REFERENCES
 (PROFILES, DETAIL & DRAINAGE
 DESCRIPTION SHEETS, ETC.)

I-81 NB Profile 5A

SCALE 0 50' 100'	PROJECT 0081-086-834	SHEET NO. 5
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PROJECT MANAGER: ROBERT LEONARD (276) 696-3258 (BRISTOL)
 SURVEYED BY, DATE: JOHNSON, MIRIRAN & THOMPSON (804) 323-9900
 DESIGN BY: TIMMONS GROUP (804) 200-6500
 SUBSURFACE UTILITY BY, DATE: WOOLPERT, INC. (757) 549-3549

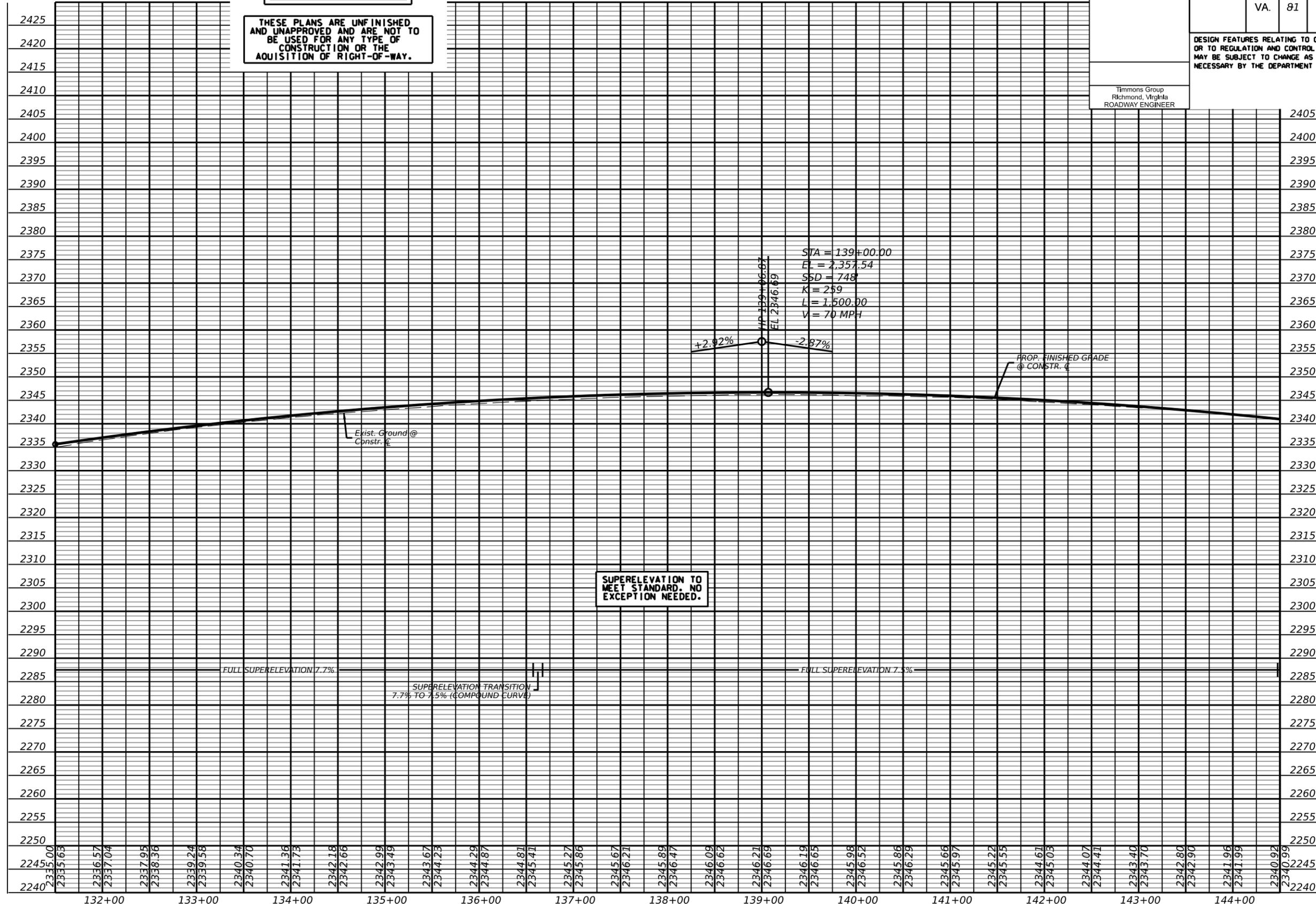
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	5A

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

Timmons Group
 Richmond, Virginia
 ROADWAY ENGINEER



Station	Elevation
132+00	2335.63
132+10	2336.57
132+20	2337.04
132+30	2337.95
132+40	2338.36
132+50	2339.24
132+60	2339.58
132+70	2340.34
132+80	2340.70
132+90	2341.36
133+00	2341.73
133+10	2342.18
133+20	2342.66
133+30	2342.99
133+40	2343.49
133+50	2343.67
133+60	2344.23
133+70	2344.29
133+80	2344.87
133+90	2344.81
134+00	2345.41
134+10	2345.27
134+20	2345.86
134+30	2345.67
134+40	2346.21
134+50	2345.89
134+60	2346.47
134+70	2346.09
134+80	2346.62
134+90	2346.21
135+00	2346.69
135+10	2346.19
135+20	2346.65
135+30	2345.98
135+40	2346.52
135+50	2345.86
135+60	2346.29
135+70	2345.66
135+80	2345.97
135+90	2345.22
136+00	2345.55
136+10	2344.61
136+20	2345.03
136+30	2344.07
136+40	2344.41
136+50	2343.40
136+60	2343.70
136+70	2342.80
136+80	2342.90
136+90	2341.96
137+00	2341.99
137+10	2340.92
137+20	2340.99
137+30	2245.00
137+40	2245.00
137+50	2245.00
137+60	2245.00
137+70	2245.00
137+80	2245.00
137+90	2245.00
138+00	2245.00
138+10	2245.00
138+20	2245.00
138+30	2245.00
138+40	2245.00
138+50	2245.00
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142+60	2245.00
142+70	2245.00
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143+10	2245.00
143+20	2245.00
143+30	2245.00
143+40	2245.00
143+50	2245.00
143+60	2245.00
143+70	2245.00
143+80	2245.00
143+90	2245.00
144+00	2245.00

PROJECT MANAGER ROBERT LEONARD (276) 696-3258 (BRISTOL)
SURVEYED BY, DATE JOHNSON, MIRMIRAN & THOMPSON (804) 323-9900
DESIGN BY TIMMONS GROUP (804) 200-6500
SUBSURFACE UTILITY BY, DATE WOOLPERT, INC. (757) 549-3549

CONCEPTUAL PLANS

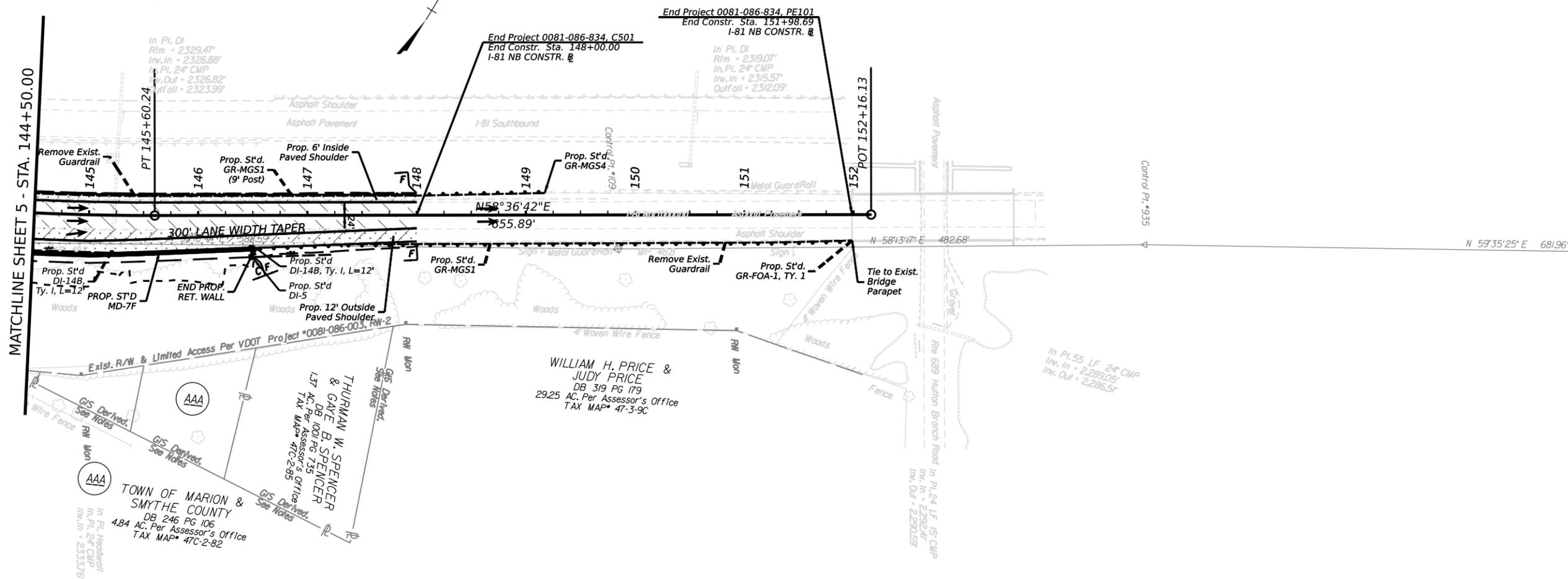
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	6

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

Timmons Group
Richmond, Virginia
ROADWAY ENGINEER

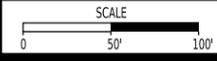
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DELTA = 21°59'11.05" (LT)
D = 02°26'55"
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R = 2,340.00'
PC = 136+62.30
PT = 145+60.24
e = 7.5 %
V = 70 MPH



- Denotes New Pavement
- Denotes Pavement Resurfacing
- Denotes Demolition of Pavement

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

I-81 NB Profile 6A



PROJECT	SHEET NO.
0081-086-834	6

PROJECT MANAGER: ROBERT LEONARD (276) 696-3258 (BRISTOL)
 SURVEYED BY, DATE: JOHNSON, MIRIRAN & THOMPSON (804) 323-9900
 DESIGN BY: TIMMONS GROUP (804) 200-6500
 SUBSURFACE UTILITY BY, DATE: WOOLPERT, INC. (757) 549-3549

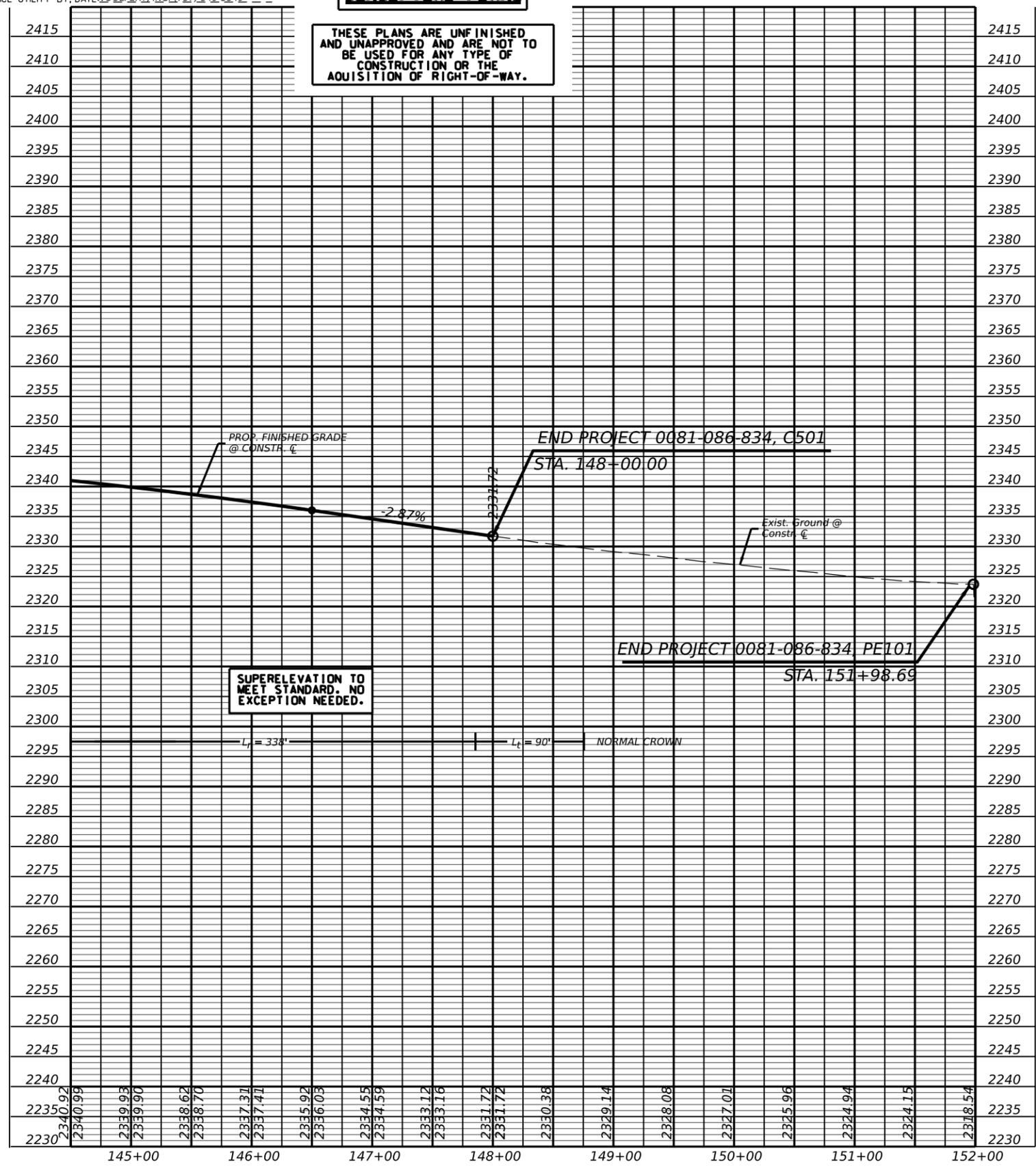
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REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	81	0081-086-834 PE101	6A

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

Timmons Group
 Richmond, Virginia
 ROADWAY ENGINEER



**EXHIBIT 6.3(a)
ADJUSTMENT FOR ASPHALT**

**SPECIAL PROVISION FOR
ASPHALT MATERIAL PRICE ADJUSTMENT for DESIGN-BUILD PROJECTS**

June 6, 2018

All asphalt material listed in the attached "Asphalt Material Items Eligible for Price Adjustment" will be adjusted in accordance with the provisions as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract. Any item added through a Work Order which contains asphalt material will not be subject to Price Adjustment unless specifically designated in the Work Order to be subject to Price Adjustment.

Each month, the Department will publish an average state-wide PG 64S-22 f.o.b. price per ton and an average PG 64E-22 f.o.b. price per ton developed from the average terminal prices provided to the Department from suppliers of asphalt cement to contractors doing work in Virginia. The Department will collect terminal prices from approximately 12 terminals each month. These prices will be received once each month from suppliers on or about the last weekday of the month. The high and low prices will be eliminated and the remaining values averaged to establish the average statewide price for the following month. That monthly state-wide average price will be posted on the Construction Division website on or about the first weekday of the following month. In the event the average prices were to change 10 percent or more of the Base Index during the middle of the month, the Design Builder can submit a letter to the Department and the supplier that provides evidence of the difference in price. Upon receipt of the letter consideration will be given to extend additional adjustments as deemed necessary.

This monthly statewide average price will be the Base Index for all contracts on which Price Proposals are received during the calendar month of its posting and will be the Current Index for all asphalt placed during the calendar month of its posting. In the event an index changes radically from the apparent trend, as determined by the Engineer, the Department may establish an index which is determined to best reflect the trend.

The amount of adjustment applied will be based on the difference between the Price Proposal/Contract Base Index and the Current Index for the applicable calendar month during which the work is performed. Calculations must be done for each type of Asphalt Material put in place each month, whether the Current Index is higher or lower than the Base Index. The calculation for the adjustment shall be shown as follows:

$$A = Q \times \%AC \times IC$$

Where: A = Asphalt Adjustment Dollar Amount

Q = Quantity of Asphalt Material put in place during the month

%AC = % of Asphalt Cement in the Asphalt Material as specified in the Job Mix Formula

IC = Numeric Dollar Difference, either positive or negative, between the Base Index and Current Index

Example Calculation for Negative Price Adjustment (Credit back to VDOT):

7,500 Tons of SM-12.5A put in place during the month (Q), Job Mix is 6.1% Asphalt Cement for SM-12.5A (%AC), Base Index for the Contract is \$515/Ton, Current Index is \$500/Ton, Difference of - \$15.00/Ton (IC)

$$7,500 \text{ Tons SM-12.5A} \times 6.1\% \times - \$15.00/\text{Ton} = - \$6,862.50 \text{ Adjustment Amount}$$

Example Calculation for Positive Price Adjustment (Paid to the Design-Builder):

10,000 Tons of BM-25.0A put in place during the month (Q), Job Mix is 5.2% Asphalt Cement for BM-25.0A (%AC), Base Index for the Contract is \$515/Ton, Current Index is \$560/Ton, Difference of + \$45.00/Ton (IC)

10,000 Tons BM-25.0A x 5.2% x \$45.00/Ton = + \$23,400.00 Adjustment Amount

Adjustment of any asphalt material other than PG 64S-22 and PG 64E-22 will be based on the indexes for PG 64S-22. The quantity of asphalt cement for asphalt concrete pavement to which adjustment will be applied will be the quantity based on the percent of asphalt cement shown on the appropriate approved job mix formula.

The quantity of asphalt emulsion for surface treatments to which adjustment will be applied will be the quantity based on 65 percent residual asphalt.

Price adjustment will be shown as a separate entry on the monthly application of payment for work packages completed; however, such adjustment will not be included in the total cost of the work for progress determination or for extension of contract time. Items the Design-Builder claims in its application of payment for asphalt adjustments must include supporting calculations certified by the Quality Assurance Manager (QAM). These calculations shall be completed relative to the calendar month under which the work was performed and shall be submitted for either positive or negative adjustment.

Any apparent attempt to unbalance bids in favor of items subject to price adjustment or failure to submit required cost and price data as noted hereinbefore may result in rejection of items for asphalt adjustment.

VIRGINIA DEPARTMENT OF TRANSPORTATION
**MASTER LISTING OF
 ASPHALT MATERIAL ITEMS ELIGIBLE FOR PRICE ADJUSTMENT**

ITEM	DESCRIPTION	UNITS	SPECIFICATION
10062	Asphalt-Stab. Open-Graded Material	Ton	313
10416	Liquid Asphalt	Gal	311 312
10417	Tack Coat	Gal	310
10420	Blotted Seal Coat Ty. B	Sy	ATTD
10422	Blotted Seal Coat Ty. C	Sy	ATTD
10423	Blotted Seal Coat Ty. C-1	Sy	ATTD
10424	Blotted Seal Coat Ty. D	Sy	ATTD
10598	NS Asphalt Concrete	Ton	315
10603	Asphalt Concrete Ty. SM-19.0A	Ton	315
10604	Asphalt Concrete Ty. SM-19.0D	Ton	315
10605	Asphalt Concrete Ty. SM-19.0E (64E)	Ton	315
10606	Asphalt Concrete Ty. SM-9.5	Ton	315
10607	Asphalt Concrete Ty. SM-12.5A	Ton	315
10608	Asphalt Concrete Ty. SM-12.5D	Ton	315
10609	Asphalt Concrete Ty. SM-12.5E (64E-22)	Ton	315
10610	Asphalt Concrete Ty. IM-19.0A	Ton	315
10611	Asphalt Concrete Ty. IM-19.0D	Ton	315
10612	Asphalt Conc. Base Cr. Ty. BM-25.0	Ton	315
10614	Asphalt Concrete Ty. IM-19.0E (64E)	Ton	315
10613	Asphalt Concrete Ty. BM-37.5	Ton	315
10635	Asphalt Concrete Ty. SM-9.5A	Ton	315
10636	Asphalt Concrete Ty. SM-9.5D	Ton	315
10637	Asphalt Concrete Ty. SM-9.5E (64E-22)	Ton	315
10639	Asphalt Concrete Ty. SM-19.0	Ton	315
10642	Asphalt Concrete Ty. BM-25.0A	Ton	315
10643	Asphalt Concrete Ty. BM-25.0D	Ton	315
10650	Stone Matrix Asphalt SMA-9.5(64H-22)	Ton	317
10651	Stone Matrix Asphalt SMA-9.5(64E-22)	Ton	317
10652	Stone Matrix Asphalt SMA-12.5(64H-22)	Ton	317
10653	Stone Matrix Asphalt SMA-12.5(64E-22)	Ton	317
10654	Stone Matrix Asphalt SMA-19.0(64H-22)	Ton	317
10655	Stone Matrix Asphalt SMA-19.0(64E-22)	Ton	317
10701	Liquid Asphalt Coating	Sy	ATTD
12505	Asphalt Concrete Curb Backup Material	Ton	315
13240	Asphalt Concrete Sidewalk	Ton	504
16110	Emul. Asph. Slurry Seal Type A	Sy	ATTD
16120	Emul. Asph. Slurry Seal Type B	Sy	ATTD
16130	Emul. Asph. Slurry Seal Type C	Sy	ATTD
16144	Latex Mod. Emul. Treat. Type B	Ton	ATTD

16145	Latex Mod. Emul. Treat. Type C	Ton	ATTD
16146	Latex Mod. Emul. Treat. Rutfilling	Ton	ATTD
16161	Modified Single Seal	Sy	ATTD
16162	Modified Double Seal	Sy	ATTD
16249	Nontracking Tack Coat	Gal.	ATTD
16250	Liquid Asphalt Matl. CMS-2 (Mod)	Gal	ATTD
16251	Liquid Asphalt Matl. CMS-2	Gal	ATTD
16252	Liquid Asphalt Matl. CRS-2	Gal	ATTD
16253	Liquid Asphalt Matl. CRS-2H	Gal.	ATTD.
16254	Liquid Asphalt Matl. RC-250	Gal	ATTD
16256	Liquid Asphalt Matl. RC-800	Gal	ATTD
16257	Ns Liquid Asphalt Matl.	Gal	ATTD
16260	Liquid Asphalt Matl. CRS-2L	Gal	ATTD
16325	NS Asphalt Concrete	Ton	N/A
16326	Asphalt Concrete Ty. SM-4.75A	Ton	315
16327	Asphalt Concrete Ty. SM-4.75D	Ton	315
16328	Asphalt Concrete Ty. SM-4.75E	Ton	315
16330	Asphalt Concrete Ty. SM-9.0A	Ton	315
16335	Asphalt Concrete Ty. SM-9.5A	Ton	315
16337	Asph. Conc. Ty. SM-9.5ASL (Spot Level)	Ton	315
16340	Asphalt Concrete Ty. SM-9.5D	Ton	315
16342	Asph. Conc. Ty. SM-9.5DSL (Spot Level)	Ton	315
16345	Asphalt Concrete Ty. SM-9.5E (64E-22)	Ton	315
16350	Asphalt Concrete Ty. SM-12.5A	Ton	315
16352	Asph. Con. Ty. SM-12.5ASL (Spot Level)	Ton	315
16355	Asphalt Concrete Ty. SM-12.5D	Ton	315
16357	Asph. Con. Ty. SM-12.5DSL (Spot Level)	Ton	315
16360	Asphalt Concrete Ty. SM-12.5E (64E-22)	Ton	315
16364	Asphalt Concrete Ty. SM-19.0E (64E)		
16365	Asphalt Concrete Ty. IM-19.0A	Ton	315
16370	Asphalt Concrete Ty. IM-19.0D	Ton	315
16371	Asphalt Concrete Ty. IM-19.0E (64E)		
16373	Asphalt Concrete Ty. IM-19.0A (T)	Ton	315
16374	Asphalt Concrete Ty. IM-19.0D (T)	Ton	315
16377	Asphalt Concrete Ty. BM-37.5	Ton	315
16379	Asphalt Concrete Ty. IM-19.0T	Ton	315
16390	Asphalt Concrete Ty. BM-25.0A	Ton	315
16392	Asphalt Concrete Ty. BM-25.0D	Ton	315
16395	Asphalt Concrete Ty. BM-25.0A (T)	Ton	315
16397	Asphalt Concrete Ty. BM-25.0D (T)	Ton	315
16400	Stone Matrix Asphalt SMA-9.5(64H-22)	Ton	ATTD
16401	Stone Matrix Asphalt SMA-9.5(64E-22)	Ton	ATTD
16402	Stone Matrix Asphalt SMA-12.5(64H-22)	Ton	ATTD
16403	Stone Matrix Asphalt SMA-12.5(64E-22)	Ton	ATTD
16404	Stone Matrix Asphalt SMA-19.0(64H-22)	Ton	ATTD
16405	Stone Matrix Asphalt SMA-19.0(64E-22)	Ton	ATTD
16490	Hot Mix Asphalt Treatment	Ton	ATTD

16500	Surf.Preparation & Restoration Type I	Ton	ATTD
16502	Surf.Preparation & Restoration Type II	Ton	ATTD
16504	Surf.Preparation & Restoration Type III	Ton	ATTD
67201	NS Asphalt Concrete Overlay	Ton	315
67210	NS Asphalt Concrete	Ton	315
68240	NS Asphalt Concrete	Ton	315

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSAL GUARANTY

KNOW ALL MEN BY THESE PRESENTS, THAT WE Blythe Development Co As principal, and Liberty Mutual Insurance Company Surety, are held and firmly bound unto the Commonwealth of Virginia as obligee, in the amount of FIVE PERCENT OF THE DOLLAR VALUE OF THE BID, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally and firmly by these presents.

SIGNED, sealed and dated this 30 th Day of March, 20 21

WHEREAS, the above said principal is herewith submitting its proposal for:
PROJECT NUMBER: **0081-086-834, PE101, C501**

NOW, THEREFORE, the condition of the above obligee is such, that if the aforesaid principal shall be awarded the contract upon said proposal and shall within the time specified in the Specifications after the notice of such award enter into a contract and give bond for the faithful performance of the contract, then this obligation shall be null and void; otherwise to remain in full force and effect and the principal and surety will pay unto the obligee the difference in money between the amount of the bid of the said principal and the amount for which the obligee may legally contract with another party to perform the said work if the latter amount be in excess of the former; but in no event shall the liability exceed the penal sum hereof.

(Principal*)
By: _____
(Officer, Partner or Owner) (Seal)

(Surety Company)
By: _____
(Attorney-in-Fact**) (Seal)

(Principal*)
By: _____
(Officer, Partner or Owner) (Seal)

(Address)
By: _____
(Surety Company)

(Principal*)
By: _____
(Officer, Partner or Owner) (Seal)

(Attorney-in-Fact**) (Seal)
By: _____
(Address)

*Note: If the principal is a joint venture, each party thereof must be named and execution made by same hereon. If there is more than one surety to the bid bond, each surety must be named and execution shall be made by same hereon.

Electronic Bid Only: In lieu of completing the above section of the Contract Performance Bond, the Principal shall file an Electronic Bid Bond when bidding electronically. By signing below the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the Commonwealth of Virginia under the same conditions of the bid bond as shown above.

5VA21415977
Electronic Bid Bond ID#

Blythe Development Co.
Company/Bidder Name

[Signature]
Signature and Title

VP of Operations

**Attach copy of Power of Attorney



USI Insurance Services - Angela D Ramsey

Bond Number: SVA21415977

Contractor Information

Principal: Blythe Development Co. 704-588-0023

Address: 1415 E Westinghouse Blvd Charlotte North Carolina 28273 United States

Owner/Obligee Information

Bond Form: Bid Bond in accordance with Contract Specifications

Owner/Obligee: Virginia Dept. of Transportation

Address: 1401 E. Broad Street Richmond Virginia 23219 United States

Bond Information

Bid Date: 4/12/2021

Surety: Liberty Mutual Insurance Company

Rider Present: [Click here to view](#)

Estimated Contract Price: \$15,000,000.00

Time For Completion: 07/25/2022

Liquidated Damages: \$2,500.00

Estimated Work On Hand:

Amount of Bid Security: 5%

Contract ID Number: C00116161DB110

Description of Job: Smyth County; State Project No. 0081-086-B34PE101, C501

Job Breakdown:

Electronic Bidding Information

Bid Security Percentage: 5

Bid Security Maximum:

Contractor's State Vendor ID Number: B1096

Primary Agency:

USI Insurance Services

Agency Power of Attorney Limited to: no stated limit

Executed

Bond Entered By: Angela D Ramsey - 3/30/2021 12:04:11 PM ET

Bond Approved & Executed By: Angela D Ramsey - 3/30/2021 12:04:23 PM ET

Know all men by these presents that Liberty Mutual Insurance Company, a Corporation duly organized under the laws of the State of Massachusetts, are held and firmly bound unto the above owner/obligee by this transmission. The surety agrees to waive the Statute of Fraud defense and further agrees that the owner/obligee is a third party beneficiary of the waiver for the purposes of enforcing this bid bond.



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

PROJECT: 0081-086-834 PE101, C501

FHWA: NHPP - 081-1 (367)

This form must be completed, signed and returned with bid; and failure to do so may result in the rejection of your bid. **THE CONTRACTOR SHALL AFFIRM THE FOLLOWING STATEMENT EITHER BY SIGNING THE AFFIDAVIT AND HA VING IT NOTARIZED OR BY SIGNING THE UNSWORN DECLARATION UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES.** A SEPARATE FORM MUST BE SUBMITTED BY EACH PRINCIPAL OF A JOINT VENTURE BID.

STATEMENT. In preparation and submission of this bid, I, the firm, corporation or officers, agents or employees thereof did not, either directly or indirectly, enter into any combination or arrangement with any persons, firm or corporation or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section 1) or Article 1.1 or Chapter 12 of Title 18.2 (Virginia Governmental Frauds Act), Sections 59.1-9.1 through 59.1-9.17 or Sections 59.1-68.6 through 59.1-68.8 of the Code of Virginia.

AFFIDAVIT

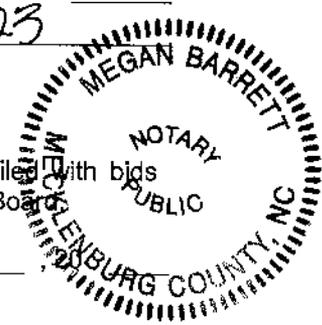
The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Charlotte, NC, this 6 day of April, 20 21
County (City), STATE
Blythe Development Co. By: [Signature] Title (print) VP of Operations
(Name of Firm) (Signature) (Title (print))
STATE of NC COUNTY (CITY) of Mecklenburg
I Megan Barrett To-wit: _____, a Notary Public in and for the State and
County (City) aforesaid, hereby certify that this day Lukas J Blythe Jr.
personally appeared before me and made oath that he is duly authorized to make the above statements
and that such statements are true and correct.
Subscribed and sworn to before me this 6th day of April, 20 21
Megan Barrett My Commission expires 2.4.23
Notary Public

**OR
UNSWORN DECLARATION**

The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at _____, this _____ day of _____
County (City), STATE
By: _____ Title (print)
(Name of Firm) (Signature)



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
AFFIDAVIT

PROJECT: 0081-086-834 PE101, C501

FHWA: NHHP-081-1 (367)

This form must be completed, signed, notarized and returned with bid; and failure to do so, may result in the rejection of your bid. A separate form must be submitted by each principal of a joint venture bid.

1. I, the firm, corporation or officers, agents or employees thereof have neither directly nor indirectly entered into any combination or arrangement with any person, firm or corporation or entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract, the effect of which is to prevent competition or increase the cost of construction or maintenance of roads or bridges.

During the preceding twelve months, I (we) have been a member of the following Highway Contractor's Associations, as defined in Section 33.1-336 of the Code of Virginia (1970). (If none, so state).

NAME	Location of Principal Office
<u>None</u>	

2. I (we) have , have not , participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246, and that I/We have , have not , filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7(b)(1)], and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contract or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b) (1) prevents the award of contract and subcontract unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

(Continued)

ORDER NO.:
CONTRACT ID. NO.: C00116161PB110

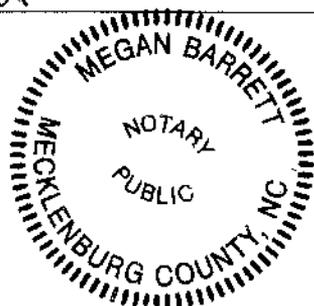
Form C-105
page 2

3. The bidder certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated above; and
 - (d) Where the bidders is unable to certify to any of the statements in this certification, the bidder shall show an explanation below.

Explanations will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any explanation noted, indicate below to whom it applies, initiating agency, and dates of action. Providing false information may result in federal criminal prosecution or administration sanctions. The bidder shall provide immediate written notice to the Department if at any time the bidder learns that its certification was erroneous when submitted or has become erroneous by reason of change circumstances.

The undersigned is duly authorized by the bidder to make the foregoing statements to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Charlotte, NC, this 6th day of April, 20 21
County (City), STATE
Blythe Development Co. By: [Signature] VP of Operations
(Name of Firm) (Signature) Title (print)
STATE of NC COUNTY (CITY) of Mecklenburg
I Megan Barrett To-wit: _____, a Notary Public in and for the State and
County (City) aforesaid, hereby certify that this day Luther S Blythe Jr.
personally appeared before me and made oath that he is duly authorized to make the above statements
and that such statements are true and correct.
Subscribed and sworn to before me this 6th day of April, 20 21
Megan Barrett My Commission expires 2-4-23
Notary Public



**EXHIBIT 6.3 (c)
ADJUSTMENT FOR FUEL**

**VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION FOR
OPTIONAL ADJUSTMENT FOR FUEL
DESIGN-BUILD PROJECTS**

June 26, 2018

In the event the Design-Builder elects to seek adjustment for fuel items designated in the Price Proposal\Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract.

The Design-Builder shall submit their monthly application for payment associated with eligible work packages with an adjustment up or down as appropriate for cost changes in fuel used on specific items of work identified in this provision. The optional fuel item listing eligible for fuel adjustment is provided by the Department at this website: <http://www.virginiadot.org/business/const/resource.asp>. The listing on the web site also includes the corresponding fuel factor for each item. The fuel usage factor for each item is considered inclusive of all fuel usage.

In order to be eligible for fuel adjustment under this provision, the Design-Builder shall clearly identify in the Schedule of Items those pay items and the associated quantities it chooses to have fuel adjustment applied to in its work packages. Items the Design-Builder claims in its application of payment for fuel adjustments must be properly designated in order to be considered for adjustment. Items not properly designated or left out of the Design-Builder's Schedule of Items shall not be considered for adjustment.

The monthly index price to be used in the administration of this provision will be calculated by the Department from the Diesel fuel prices published by the U. S. Department of Energy, Energy Information Administration on highway diesel prices, for the Lower Atlantic region. The monthly index price will be the price for diesel fuel calculated by averaging each of the weekly posted prices for that particular month.

For the purposes of this provision, the base index price will be calculated using the data from the month preceding the receipt of bids. The base index price will be posted by the Department at the beginning of the month for all bids received during that month.

The current index price will be posted by the Department and will be calculated using the data from the month preceding the particular estimate being vouchered for payment.

The current monthly quantity for eligible items of work selected by the Design-Builder for fuel adjustment in its work packages will be multiplied by the appropriate fuel factor to determine the gallons of fuel to be cost adjusted. The amount of adjustment per gallon will be the net difference between the current index price and the base index price. Computation for adjustment will be made as follows:

$$S = (E - B) QF$$

Where; S = Monetary amount of the adjustment (plus or minus)

B = Base index price

E = Current index price

Q = Quantity of individual units of work

F = Appropriate fuel factor

Adjustments will not be made for work performed beyond the original contract time limit unless the original time limit has been changed by an executed Work Order.

If new pay items are added to this contract by Work Order and they are listed in the Department's master listing of eligible items, the Work Order must indicate which of these individual items will be fuel adjusted; otherwise, those items will not be fuel adjusted. If applicable, designating which new pay items will be added for fuel adjustment must be determined during development of the Work Order and clearly shown on the Work Order form. The Base Index price on any new eligible pay items added by Work Order will be the Base Index price posted for the month in which bids were received for that particular project. The Current Index price for any new eligible pay items added by Work Order will be the Index price posted for the month preceding the estimate on which the Work Order is paid.

When quantities differ between the last monthly application of payment prepared upon final acceptance and the final application of payment, adjustment will be made using the appropriate current index for the period in which that specific item of work was last performed.

In the event any of the base fuel prices in this contract increase more than 100 percent (i.e. fuel prices double), the Department will review each affected item of work and give the Design-Builder written notice if work is to stop on any affected item of work. The Department reserves the right to reduce, eliminate or renegotiate the price for remaining portions of affected items of work.

Any amounts resulting from fuel adjustment will not be included in the total cost of work for determination of progress or for extension of contract time.

I elect to use this provision

I elect not to use this provision

Date: April 12, 2021

Signature: 

Design-builder: Blythe Development Co

Vendor No.: B1096

ATTACHMENT 4.0.1.2

**DESIGN-BUILD PRICE PROPOSAL
CHECKLIST**

Project Name: I-81 MM 48 Northbound Acceleration Lane Extension

Contract ID Number: C00116161DB110

➤ **Contents of Price Proposal:**

- Cost Breakdown Summary in whole numbers and the Proposal Price, in both numbers and words (Attachment 4.3.1)**

 - Price Adjustment Information and Forms for Fuel and Asphalt, including identification of pay items and associated quantities eligible for adjustment (Part 3, Section 6.3, Attachments 6.3(a), 6.3(c), and 6.3(d))**

 - Proposal Guaranty (C-24) required by Section 102.07 of Part 5, Division I Amendments to the Standard Specifications**

 - Sworn Statement Forms (C-104, C-105, Attachments 4.3.4(a) and 4.3.4(b))**
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ATTACHMENT 4.3.1

PRICE PROPOSAL FORM

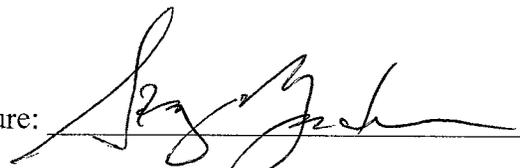
4.3.1 Offeror shall specify the pricing information for the items below, the dollars amount shall be in whole numbers:

Price Proposal Cost Breakdown Summary;

Design Services, LS	\$__1,200,000.00
Construction Services (exclude QA/QC), LS	\$__11,100,000.00__
Quality Assurance (QA) (Construction), LS	\$__250,000.00__
Quality Control (QC) (Construction), LS	\$__250,000.00__

Proposal Price; (Specify the Total Lump Sum price in both numbers and words, this price shall **equal** to the total sum of the items listed above)

Lump Sum (LS): __Twelve Million, Eight Hundred Thousand and No Cent
\$ 12,800,000.00)

Signature:  Date: 4/12/21

Design-Builder: BLYTHE DEVELOPMENT CO.

Vendor No.: B1096