JANUARY 18, 2023

SUBMITTED TO
VIRGINIA DEPARTMENT OF TRANSPORTATION

REQUEST FOR PROPOSAL

I-77 OVER ROUTE 606 BRIDGE REPLACEMENT

A DESIGN-BUILD PROJECT

STATE PROJECT NO: 0077-010-834.P101.C501.B644

FEDERAL PROJECT NO: NHFP-077-2(341)

CONTRACT ID NUMBER: C00117110DB115

VOLUME I

LETTER OF SUBMITTAL AND ATTACHMENTS

SUBMITTED BY

TRITON CONSTRUCTION, INC.

IN ASSOCIATION WITH

Michael Baker INTERNATIONAL

ATTACHMENT 4.0.1.1

I-77 over Route 606 Bridge Replacement

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 3.4 (Form C-78-RFP)	Sections 3.4; 4.0.1.1	3
Letter of Submittal	NA	Sections 4.1	4-5
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	4
Offeror's full legal name and address	NA	Section 4.1.1	4
Authorized representative's original signature	NA	Section 4.1.1	4
Declaration of intent	NA	Section 4.1.2	4
120 day declaration	NA	Section 4.1.3	4
Point of Contact information	NA	Section 4.1.4	4
Principal Officer information	NA	Section 4.1.5	4
Offeror's Corporate Structure	NA	Section 4.1.6	5
Full Legal Name of Lead Contractor, Lead Designer, and QAM	NA	Section 4.1.7	5
Offeror's VDOT prequalification information	NA	Section 4.1.8	5
DBE statement confirming Offeror is committed to achieving the required DBE goal	NA	Section 4.1.9	5
Interim Milestone and Final Completion Date(s)	NA	Section 4.1.10	5

ATTACHMENT 4.0.1.1

I-77 over Route 606 Bridge Replacement

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	6
Certification Regarding Debarment Forms	Attachment 4.2.2(a) Attachment 4.2.2(b)	Section 4.2.2	7-9
Offeror's VDOT prequalification information	NA	Section 4.2.3	10-11
Evidence of obtaining bonding	NA	Section 4.2.4	12
Full size copies of DPOR licenses and SCC registrations	NA	Section 4.2.5	13-21
SCC registration information - businesses	Attachment 4.2.5	Section 4.2.5.1	22
DPOR registration information - businesses	Attachment 4.2.5	Section 4.2.5.2	22
Lead Contractor Work History Form	Attachment 4.2.6(a)	Section 4.2.6	23-25
Lead Designer Work History Form	Attachment 4.2.6(b)	Section 4.2.6	26-28
Conceptual Roadway Plans	NA	Section 4.2.7	Volume II
Conceptual Bridge Plans	NA	Section 4.2.8	Volume II

ATTACHMENT 3.4

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

I-77 over Route 606 Bridge Replacement

RFP NO. C00117110DB115

PROJECT NO.: 0077-010-834, P101, C501, B644

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 3.4, 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 – November 2, 2022 *(Date)*
2. Cover letter of RFP Addendum 1 - November 16, 2022 *(Date)*
3. Cover letter of RFP Addendum 2 - December 9, 2022 *(Date)*

SIGNATURE	January 17, 2023 DATE
Thomas C. Apperson PRINTED NAME	President TITLE

TRITON
CONSTRUCTION, INC.
OF VIRGINIA

JANUARY 18, 2023

Daniel McBride, PE
Alternative Project Delivery Division
Virginia Department of Transportation
1401 East Broad Street
Annex Building, 5th Floor
Richmond, VA 23219

Letter of Submittal 4.1
I-77 over Route 606 Replacement
Bland County, Virginia
Project No. 0077-010-834
Contract ID# C00117110DB115

Dear Mr. McBride:

TRITON CONSTRUCTION OF VIRGINIA, INC. (TRITON), as the Offeror, is pleased to submit to the Virginia Department of Transportation (VDOT) this Letter of Submittal for the I-77 over Route 606 Bridge Replacement. A heavy/highway civil contractor with nearly half a billion dollars in major highway/bridge projects safely completed over the past 10 years, the TRITON team offers committed and highly qualified professionals with the necessary expertise to successfully meet the goals and objectives of this project. The TRITON team has thoroughly reviewed the RFP documents, attended the pre-proposal and utility meetings, and visited the project site. We acknowledge receipt of the Request for Proposal dated November 2, 2022, Addendum No. 1 dated November 16, 2022 and Addendum No. 2 dated December 9, 2022 for the above-referenced project.

SUBMITTAL REQUIREMENTS

The TRITON team submits the information below as detailed in Section 4.1 of the Request for Qualifications:

4.1.1 The full legal name and address of TRITON CONSTRUCTION are as follows:
TRITON CONSTRUCTION, INC. OF VIRGINIA
PO Box 1360 Saint Albans, WV 25177

4.1.2 TRITON if selected, will enter into a contract with VDOT for the project in accordance with the terms of this RFP.

4.1.3 Pursuant to Part 1, Section 8.2, Triton declares that the offer represented by the Price Proposal will remain in full force and effect for one hundred twenty (120) days after the date the proposal is submitted to VDOT ("Letter of Submittal & Price Proposal Due Date").

4.1.4 The contact information for Mr. Steve Diehl, Design-Build Project Manager who is responsible for the oversight of the entire TRITON team and will be the primary point of contact with VDOT is as follows:
Steve Diehl, Vice President
PO Box 1360
Saint Albans, WV 25177
304.759.2100 (Office)
304.759.2200 (Fax)
steve.diehl@tritonwv.com

4.1.5 The principal officer of TRITON with whom a D/B contract with VDOT would be written is:
Thomas C. Apperson, President
PO Box 1360
Saint Albans, WV 25177
304.759.2100 (Office)
304.759.2200 (Fax)
chris.apperson@tritonwv.com

4.1.6 TRITON is a registered corporation in the Commonwealth of Virginia and will undertake financial responsibility for the Project. TRITON will have no liability limitations on this project and will provide a single 100% performance bond and payment bond.

4.1.7 TRITON CONSTRUCTION, INC. OF VIRGINIA will be the Lead Contractor and as the Offeror will serve as the prime/general contractor responsible for the overall construction of the project and will serve as the legal entity executing the contract with VDOT. Michael Baker International, Inc. is the lead design consulting firm responsible for the overall design of the project. Quinn Consulting, Inc. is defined as the firm proposed by the Offeror to provide the Quality Assurance Manager for the project.

4.1.8 TRITON CONSTRUCTION, INC. OF VIRGINIA is active probationary and prequalified to bid on the project. Triton's prequalification number is T2998 and evidence of prequalification and bidding restriction waiver is included in Appendix 4.2.3.

4.1.9 TRITON is committed to achieving the 6% DBE goal for the entire value of the project contract. TRITON's project management team has the discipline and conditioning to develop and implement an effective DBE plan to meet VDOT's obligations to the disadvantaged business community.

4.1.10 TRITON proposes an Early Substantial Completion date of 09/07/2025 and Final Completion Date of 11/06/2025 in accordance with Part I, Section 2.3.1.

The TRITON team appreciates the opportunity to submit our materials. We are confident that the TRITON team will deliver this project for VDOT and stakeholders, while meeting safety, quality and schedule expectations.

Respectfully,

TRITON CONSTRUCTION, INC. OF VIRGINIA

Thomas C. Apperson
President

4.2.1
AFFILIATED AND/OR SUBSIDIARY COMPANIES

ATTACHMENT 4.2.1

State Project No. 0077-010-834, P101, C501, B644

Affiliated and Subsidiary Companies of the Offeror

Offerors shall complete the table and include the addresses of affiliates or subsidiary companies as applicable. By completing this table, Offerors certify that all affiliated and subsidiary companies of the Offeror are listed.

☐ **The Offeror does not have any affiliated or subsidiary companies.**
X Affiliated and/ or subsidiary companies of the Offeror are listed below.

Relationship with Offeror (Affiliate or Subsidiary)	Full Legal Name	Address
Subsidiary	**Paul's Concrete, Inc.**	**P.O. Box 1360, Saint Albans, WV 25177**
Subsidiary	**Pipe Plus, Inc.**	**P.O. Box 1360, Saint Albans, WV 25177**
Subsidiary	**East Coast Bridge, LLC**	**P.O. Box 1360, Saint Albans, WV 25177**
Subsidiary	**Rover Construction, Inc.**	**P.O. Box 1360, Saint Albans, WV 25177**

4.2.2 CERTIFICATION REGARDING DEBARMENT

ATTACHMENT 4.2.2(a)

CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS

Project No.: 0077-010-834, P101, C501, B644

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	01/17/2023 Date	PRESIDENT Title

TRITON CONSTRUCTION, INC. OF VIRGINIA
Name of Firm

ATTACHMENT 4.2.2(b)

CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0077-010-834, P101, C501, B644

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	January 18, 2023	Senior Vice President
	Date	Title

Michael Baker International, Inc.
Name of Firm

ATTACHMENT 4.2.2(b)

CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0077-010-834, P101, C501, B644

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	1/4/2023 Date	President Title

Quinn Consulting Services, Inc.
Name of Firm

4.2.3
OFFEROR'S VDOT PREQUALIFICATION CERTIFICATION EVIDENCE

Vendor ID: T2998
Vendor Name: TRITON CONSTRUCTION INC. OF VIRGINIA
Prequal Level: Prequalified (Probationary)
Prequal Exp: 10/31/2023

-- PREQ Address --

P.O. BOX 1360
ST. ALBANS, WV 25177
Phone: (304)759-2100
Fax: (304)759-2200

Work Classes (Listed But Not Limited To)

003 - MAJOR STRUCTURES
019 - ERECT FABRICATED STRUCTURAL MATERIAL
030 - PILE DRIVING AND CAISSONS
055 - BRIDGE REPAIRS

Bus. Contact: ANDERS, ANTON ALLEN
Email: TONY.ANDERS@TRITONWV.COM

-- DBE Information --

DBE Type: N/A
DBE Contact: N/A

From: Nicholas, Mandy VCCO <amanda.nicholas@vdot.virginia.gov>
Sent: Monday, November 21, 2022 1:27 PM
To: tony.anders@tritonwv.com
Cc: Ben Coaker <ben.coaker@vdot.virginia.gov>; VDOT-Prequalification, rr <prequalification@vdot.virginia.gov>
Subject: Re: Request for Waiver I-77 over Route 606 Bridge Replacement, Contract ID No. C00117110DB115

Good afternoon Tony,

I have reviewed the qualifications of Triton Construction, Inc. of Virginia and I find them acceptable for the purpose of bidding the I-77 over Route 606 Bridge Replacement, Contract ID No. C00117110DB115 One Step Design Build RFP on January 18, 2023. Therefore, I hereby waive the bidding restriction on your firm for this project.

This waiver is predicated on your compliance with the Rules Governing Prequalification. The rules state that you are limited to no more than three projects at any given time, each of these contracts will be limited to a maximum contract value of $2 million not exceeding a total value of $6 million (aggregate). This waiver allows you to bid beyond that dollar limit, but should you be successful on this project, you may be ineligible for any further VDOT work as a prime contractor until you receive a satisfactory VDOT performance evaluation.

VDOT looks forward to your submissions.

Thank you,
Mandy Nicholas

Mandy Nicholas, VCCO
Prequalification Office / Construction Division
Virginia Department of Transportation
804-371-2009
amanda.nicholas@VDOT.Virginia.gov

4.2.4
EVIDENCE OF RETAINING BONDING

USI Insurance Services LLC
1 Hillcrest Drive East
Charleston, WV 25311
www.usi.biz
304-347-0611

January 3, 2023

Mr. Daniel McBride, PE
Alternative Project Delivery Division
Virginia Department of Transportation
1401 East Broad Street
Richmond, VA 23219

RE: Triton Construction, Inc of Virginia
St. Albans, WV
Project: I-77, Bridge Replacement over Rt 606
Design-Build
Bland County, Virginia
Contract ID: C00117110DB115
State Project No.: 0077-010-834

Dear Mr. McBride:

Triton Construction, Inc. of Virginia (Triton) is a "dba" of Triton Construction, Inc. of St. Albans, WV. Triton has made me aware of their desire to become prequalified to bid on the subject project on January 18, 2023. Triton is capable of obtaining a bond for a project of this magnitude, estimate at $15,000,000. If Triton is the successful bidder and enters into a contract to construct this project, we will, according to the terms and conditions of the required bid bond, issue the 100% performance and 100% labor and material payment bonds to warrant the integrity of this design-build project including the warranty period.

Triton's surety credit is underwritten through Zurich Surety. Zurich is licensed to do business in the Commonwealth of VA, has an "A+" Best Rating, and a Treasury Listing in excess of $750 million. Triton's current program with Zurich is in the $200 million single project and $450 million aggregate range. And, currently, there is capacity in Triton's work program to accommodate this work.

This letter is intended for reference purposes. It should not be construed as a replacement for the required bid bond. Any formal and specific bond approvals will be based on current and pertinent underwriting factors at the time of the request.

If you would like to discuss this matter further, please feel free to contact me at 304-347-0666. Thank you for your positive consideration.

Sincerely,

Douglas P. Taylor

Douglas P. Taylor
Senior Vice President

4.2.5
DPOR LICENSES AND SCC REGISTRATION

State Corporation Commission
Clerk's Information System

Entity Information

Entity Information

Entity Name:	Triton Construction, Inc. of Virginia	Entity ID:	F2119438
Entity Type:	Stock Corporation	Entity Status:	**Active**
Series LLC:	N/A	Reason for Status:	Active and In Good Standing
Formation Date:	02/22/2010	Status Date:	04/27/2022
VA Qualification Date:	03/22/2019	Period of Duration:	Perpetual
Industry Code:	0 - General	Annual Report Due Date:	03/31/2023
Jurisdiction:	WV	Charter Fee:	$2500.00
Registration Fee Due Date:	03/31/2023		

Registered Agent Information

RA Type:	Entity	Locality:	HENRICO COUNTY
RA Qualification:	BUSINESS ENTITY THAT IS AUTHORIZED TO TRANSACT BUSINESS IN VIRGINIA		
Name:	C T CORPORATION SYSTEM	Registered Office Address:	4701 COX RD STE 285, GLEN ALLEN, VA, 23060 - 0000, USA

Principal Office Address

Address:	1944 WINFIELD ROAD, SAINT ALBANS, WV, 25177 - 0000, USA

Commonwealth of Virginia

STATE CORPORATION COMMISSION

Richmond, March 22, 2019

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

Triton Construction, Inc. of Virginia (USED IN VA
BY: Triton Construction, Inc.)

a corporation organized under the laws of WEST VIRGINIA 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. Peck
Clerk of the Commission

CISKMP

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
07-31-2023

NUMBER
2705171890

BOARD FOR CONTRACTORS
CLASS A CONTRACTOR
CLASSIFICATIONS H/H

TRITON CONSTRUCTION INC OF VIRGINIA
TRITON CONSTRUCTION INC
PO BOX 1360
SAINT ALBANS, WV 25177

DPOR

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

CLASS A BOARD FOR CONTRACTORS
CONTRACTOR

CLASSIFICATIONS H/H
NUMBER: 2705171890 EXPIRES: 07-31-2023

TRITON CONSTRUCTION INC OF VIRGINIA
TRITON CONSTRUCTION INC
PO BOX 1360
SAINT ALBANS, WV 25177

(FOLD)

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

DPOR-PC (02/2017)

State Corporation Commission
Clerk's Information System

Entity Information

Entity Information

Entity Name:	Michael Baker International, Inc.	Entity ID:	F0260747
Entity Type:	Stock Corporation	Entity Status:	**Active**
Formation Date:	N/A	Reason for Status:	Active and In Good Standing
VA Qualification Date:	10/13/1992	Status Date:	11/09/2020
Industry Code:	0 - General	Period of Duration:	Perpetual
Jurisdiction:	PA	Annual Report Due Date:	N/A
Registration Fee Due Date:	Not Required	Charter Fee:	$30.00

Registered Agent Information

RA Type:	Entity	Locality:	HENRICO COUNTY
RA Qualification:	BUSINESS ENTITY THAT IS AUTHORIZED TO TRANSACT BUSINESS IN VIRGINIA		
Name:	C T CORPORATION SYSTEM	Registered Office Address:	4701 Cox Rd Ste 285, Glen Allen, VA, 23060 - 6808, USA

Principal Office Address

Address:	500 Grant St Ste 5400, Pittsburgh, PA, 15219 - 2523, USA

Commonwealth of Virginia

State Corporation Commission

CERTIFICATE OF GOOD STANDING

I Certify the Following from the Records of the Commission:

That Michael Baker International, Inc., a corporation incorporated under the law of Pennsylvania, is authorized to transact business in the Commonwealth of Virginia;

That it obtained a certificate of authority to transact business in Virginia from the Commission on October 13, 1992; 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:

April 2, 2019

Joel H. Peck

Joel H. Peck, Clerk of the Commission

CISECOM
Document Control Number: 1904025494

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
02-29-2024

NUMBER
0411001245

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

PROFESSIONS: ENG

MICHAEL BAKER INTERNATIONAL, INC
272 BENDIX ROAD
STE 400
VIRGINIA BEACH, VA 23452

DPOR

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: 0411001245 EXPIRES: 02-29-2024
PROFESSIONS: ENG
MICHAEL BAKER INTERNATIONAL, INC
272 BENDIX ROAD
STE 400
VIRGINIA BEACH, VA 23452

(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
02-29-2024

NUMBER
0411001246

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

PROFESSIONS: ENG

MICHAEL BAKER INTERNATIONAL, INC
3200 ROCKBRIDGE STE STE 104
RICHMOND, VA 23230

DPOR

Demetrios J. Melis, 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: 0411001246 EXPIRES: 02-29-2024
PROFESSIONS: ENG
MICHAEL BAKER INTERNATIONAL, INC
3200 ROCKBRIDGE STE STE 104
RICHMOND, VA 23230

(FOLD)

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

DPOR-PC (02/2017)

State Corporation Commission
Clerk's Information System

Entity Information

Entity Information

Entity Name:	QUINN CONSULTING SERVICES INCORPORATED	Entity ID:	04925517
Entity Type:	Stock Corporation	Entity Status:	**Active**
Series LLC:	N/A	Reason for Status:	Active and In Good Standing
Formation Date:	10/24/1997	Status Date:	12/01/2008
VA Qualification Date:	10/24/1997	Period of Duration:	Perpetual
Industry Code:	0 - General	Annual Report Due Date:	N/A
Jurisdiction:	VA	Charter Fee:	$50.00
Registration Fee Due Date:	Not Required		

Registered Agent Information

RA Type:	Individual	Locality:	ARLINGTON COUNTY
RA Qualification:	Member of the Virginia State Bar		
Name:	JOHN H QUINN JR	Registered Office Address:	2208 S KNOLL ST, ARLINGTON, VA, 22202 - 2134, USA

Commonwealth of Virginia

State Corporation Commission

CERTIFICATE OF GOOD STANDING

I Certify the Following from the Records of the Commission:

That QUINN CONSULTING SERVICES INCORPORATED is duly incorporated under the law of the Commonwealth of Virginia;

That the corporation was incorporated on October 24, 1997;

That the corporation's period of 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:

January 19, 2022

Bernard J. Logan, Clerk of the Commission

CERTIFICATE NUMBER : 2022011916806699

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2023

NUMBER
0407003733

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

PROFESSIONS: ENG

QUINN CONSULTING SERVICES INCORPORATED
14160 NEWBROOK DR
STE 220
CHANTILLY, VA 20151

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: 0407003733 EXPIRES: 12-31-2023
PROFESSIONS: ENG
QUINN CONSULTING SERVICES INCORPORATED
14160 NEWBROOK DR
STE 220
CHANTILLY, VA 20151

(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
02-29-2024

NUMBER
0411001544

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

PROFESSIONS: ENG

QUINN CONSULTING SERVICES INCORPORATED
3130 HALIFAX RD STE A
SOUTH BOSTON, VA 24592

Demetrios J. Melis, Director

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

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

ATTACHMENT 4.2.5

State Project No.: 0077-010-834, P101, C501, B644

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
Lead Contractor							
Triton Construction, Inc. of Virginia	F211943-8	S Corporation	Active in Good Standing	1944 Winfield Road, Saint Albans, WV 25177	Class A Contractor Classifications H/H	2705171890	07/31/2023
Lead Designer							
Michael Baker International, Inc.	F0260747	Stock Corporation	Active in Good Standing	272 Bendix Rd., Ste 400, Virginia Beach, VA 23452	ENG	411001245	02/29/2024
Michael Baker International, Inc	F0260747	Stock Corporation	Active in Good Standing	3200 Rockbridge St. Ste 104, Richmond, VA 23230	ENG	411001246	02/29/2024
Quality Assurance Firm							
Quinn Consulting Services, Inc.	0492551-7	S Corporation	Active in Good Standing	14160 Newbrook Dr., Suite 220 Chantilly, VA 20151	ENG	0407003433	12/31/2023
Quinn Consulting Services, Inc.	0492551-7	S Corporation	Active in Good Standing	3130 Halifax Rd., Suite A, South Boston, VA 24592	ENG	0411001544	02/29/2024

4.2.6
WORK HISTORY FORM - LEAD CONTRACTOR

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: I-81 Bridge over the Potomac River Location: I-81 WV MM 24 to MD MM 2	Name: Rummel, Klepper, & Kahl	Name of Client/ Owner: Maryland State Highway Administration Phone: 443-572-5213 Project Manager: John F. Ruff, IV Phone: 301-729-8416 Email: jruff1@mdot.maryland.gov	06/2020	12/2020	$87,137	$90,188	$59,828

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.

TRITON served as Prime Contractor on this Design-Bid-Build project upgrading and widening 3.5 Miles of I-81 immediately North of the WV US 11 Interchange and ending North of the MD 63/I-81 Interchange Project added an additional lane in each direction, rehabilitated the existing asphalt pavement, and widened the I-81 bridges within the project. The project also upgraded the roadway lighting at the MD 63/I-81 Interchange, replaced the roadway signing including the roadside and overhead sign structures as well as added significant Storm Water Management features to mitigate the impacts of paving the grassed median areas in the Chesapeake Bay watershed with direct proximity to the Potomac River. The Potomac River Crossing Bridge widening and superstructure replacement involved designing and constructing a completely removable 800-footbridge to gain access to the pier locations and erect the steel superstructure, as well as constructing retained temporary work areas at the pier locations to allow spread footing construction in rock within the river.

Key features of this project include:

A Modified Construction Sequence: TRITON was able to modify the planned construction sequence, improving the construction schedule and avoiding environmental delays but also avoiding exposing traffic to a potentially unstable shoulder condition of this vital Eastern US Corridor - involved with transporting overland freight along the Eastern Seaboard will Daily Traffic counts of over 70,000 vehicles per day.

Temporary Measures: Due to the watershed area upstream of the crossing and flow conditions, the temporary bridge needed to be removed within 12 hours of a potentially high water event. Under stringent permitting restraints set forth by the Maryland Department of the Environment and Army Corps Of Engineers, TRITON successfully developed a temporary bridge from which a 200 Ton crane could work and was removable in under 6 hours.

Reduced Traffic Exposure: TRITON modified the bridge widening sequence reducing traffic exposure to bolt-down temporary barrier condition being the only barrier to a 100 Foot drop-off condition.

Safety First: TRITON's construction planning focused on providing safe construction traffic ingress and egress while minimizing exposure to the constant traveling public.

Speed Reduction Techniques: TRITON utilized legally available speed reduction techniques, maintaining lighting systems at the interchanges, and additional advance warning systems and ensured no confusing conditions existed especially in pavement markings.

Implementing a QA/QC Plan: TRITON worked closely with MDSHA (responsible for QA/QC) utilizing clear communication and scheduling, partnering, and frequent informal partnering to ensure materials and construction methods were in compliance with the contract documents and stakeholder commitments in advance of new construction activities.

Effective Public Outreach: TRITON was an active "hands-on" partner with MDSHA communicating with Maryland and West Virginia stakeholders ensuring environmental commitments were fulfilled, public impact to the C&O Canal National Park was minimized and the public using the Canal Trail protected from construction hazards and local constituents were informed and included as the project progressed working with all identified stakeholders through the formal partnering process.

TRITON
CONSTRUCTION, INC.
OF VIRGINIA

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: I-77 Widening Location: Beckley, WV	Name: HNTB Corporation	Name of Client/ Owner:West Virginia Dept. of Transportation Phone: 304-590-3659 Project Manager: Matthew L. Rowan Phone: 304-590-6359 Email: matthew.l.rowan@wv.gov	08/2022	11/2022	$105,640	$121,682	$55,222

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.

This traditional Design-Bid-Build project upgrading and widening 5.6 Miles of Northbound I-77 and 7.7 Miles of Southbound I-77 beginning at the I-64/I-77 Interchange and ending North of the US 19/I-77 Interchange as well as involving the WV Route 3 and WV Route 16 Interchanges. The project added an additional lane in each direction, rehabilitated the existing asphalt over concrete pavement using rubilization with asphalt overlay, and widened the I-77 bridges within the project The project also upgraded the roadway lighting throughout the project length to High Mast lighting and replaced the roadway signing including the roadside and overhead sign structures. The bridge widenings included the 383 Ft NB Bridge carrying NB over Piney Creek and CSX Railroad; 354 Ft set of bridges carrying NB & SB over WV 16; the 180 Ft set of bridges carrying NB & SB over the WV 16 Interchange Ramps; the 530 Ft set of bridges carrying NB & SB over Whitestick Creek, CSX Railroad and Cabell Road and the 184 Ft NB Bridge carrying NB over Dry Hill Road. The project originally was slated to rehabilitate the widened bridge decks but was modified to replace the bridge decks as well as the existing approach slabs. All lanes were fully opened to traffic a year ahead of the contract completion date with the final skid surfacing and roadway markings in the following spring/early summer.

Key features of this project include:

Reduced Traffic Exposure: TRITON modified the bridge widening sequence reducing traffic exposure. The project is located in a high traffic volume (truck traffic) on an interstate highway.

Safety First: TRITON's construction planning focused on providing safe construction traffic ingress and egress while minimizing exposure to the constant traveling public.
Relevant Project Elements

Speed Reduction Techniques: TRITON utilized legally available speed reduction techniques, maintaining lighting systems at the interchanges, and additional advance warning systems and ensured no confusing conditions existed especially in pavement markings.

TRITON
CONSTRUCTION, INC.
OF VIRGINIA

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: Michael Anguilli Memorial Bridge Location: CR 50/59 (North 13th St.) over US 50 near Clarksburg, WV	Name: Greenman-Pedersen, Inc.	Name of Client/ Owner: West Virginia Deparetment of Transporation Phone: 304-528-5916 Project Manager: Samuel J. Perris Phone: 704-988-6803 Email: samuel.j.perris@wv.gov	11/2022	11/2022	$8,460	$8,598	$6,017

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.

This traditional Design-Bid-Build project replaced the 3 span 2 lane bridge carrying County Route 50/59(North 13th Street) over US Route 50 in Clarksburg, WV, and upgraded the limited access interchange with US Route 50 to allow improved ingress and egress to ease congestion. The bridge replacement involved 2-stage MSE Retaining Walls with pre-cast pile supported integral abutments with a 110 ft single span fabricated plate girder/precast deck panel superstructure with cast-in-place vehicular barrier wall and pedestrian sidewalk/curb wall constructed under Accelerated Bridge Construction conditions with the bridge closure period limited to 30 calendar days while school was not in session. TRITON received 7 days of early completion incentive payments.

Key features of this project include:

Accelerated Bridge Construction Sequence: TRITON was able to complete the project under the ABC construction conditions with a seven (7) days early completion incentive payment. Complex maintenance of traffic and construction staging.

Safety First: TRITON's construction planning focused on providing safe construction traffic ingress and egress while minimizing exposure to the constant traveling public.
Speed Reduction Techniques: TRITON utilized legally available speed reduction techniques, maintaining lighting systems at the interchanges, and additional advance warning systems and ensured no confusing conditions existed especially in pavement markings.

Effective Public Outreach: limited impacts to the traveling public and affected businesses and communities, including commitments to effective strategies to minimize the impact of congestion during construction.

TRITON
CONSTRUCTION, INC.
OF VIRGINIA

4.2.6
WORK HISTORY FORM - LEAD DESIGNER

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-66 Bridges over US 15 Interchange, Design Build Replacement Location: Prince William County, VA	Name: Lane Construction	Name of Client/ Owner: Virginia Department of Transportation Phone: 703-259-2430 Project Manager: Tom Tasselli Phone: 703-259-2430 Email: tom.tasselli@vdot.virginia.gov	09/2015	08/2017	$38,900	$38,900	$559

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.

Michael Baker provided Stage I, II and III bridge engineering services for the design-build reconstruction of parallel bridges at the I-66 and US 15 (James Madison Highway) Interchange in association with Prime design firm RDA. Michael Baker's services included preliminary alternatives design, final design, preparation of construction drawings and staging plans, and shop drawing review and general engineering consulting services for the bridges and mechanically stabilized earth (MSE) walls.

I-66 is classified as an urban interstate and US 15 is an urban principal arterial road system. The bridges will serve up to 58,000 vehicles per day in design year 2036. The purpose of the project was to accommodate the widening of I-66, improve traffic operations at the developing and growing interchange, and add traffic lanes and pedestrian facilities to US 15.

The newly constructed bridges are jointless two-span structures with full integral abutments using pre-stressed concrete bulb-T girders in each direction. This bridge configuration and design provided for durability and low maintenance and lent itself to excellent constructability. The roadway widths vary along the bridge as a result of the new diverging diamond interchange (DDI) geometry, so to provide maximum cost-effectiveness as determined during Stage I, the bridge widths and sections were simplified to avoid high-maintenance detailing and provide the most sensible configuration. This final geometry allowed for less expensive construction elements and fully integral abutments. During this collaborative design-build process, Michael Baker successfully eliminated the need for the Virginia Alternate Abutment and tooth expansion dams, saving an estimated $300,000. The left-turn lanes flare on the bridge and overall width was set constant using the maximum turning lane width and a minimum 2-foot-wide shoulder on the turn-lane side. Corrosion-resisting reinforcing was used in the concrete deck slab and the VDOT BR27C type parapet was utilized to meet the required Test Level (TL)-4 crash requirement and minimize the barrier width.

The overall width of the bridges is 60.3 ft. and 79.5 ft. for the northbound and southbound structures, respectively. The northbound bridge carries three 12 ft. wide through lanes, a turn lane varying from 0 to 14 ft. wide, a 2 ft. wide minimum west shoulder and a 1 ft. wide east shoulder. The southbound bridge carries two 12 ft. wide combined through and turn lane varying from 12 to 14 ft. wide, a 14 ft. wide shared-use path, a 1 ft. wide west shoulder, and a 2 ft. wide minimum east shoulder.

Both abutments are a part of the jointless deck system. The foundations are supported by steel piles and MSE walls at the abutments to retain the earth. Multi-column square piers with squared cap ends were selected by VDOT. The piers are oriented parallel to the direction of traffic on I-66 and are supported on spread footings. As a Context Sensitive Solution (CSS), Ashlar Drystack formliners and varying colored stains were used on the vertical concrete faces of the piers, railing pedestal, and MSE walls.

In addition to complete turn-key bridge and structure services, Michael Baker also provided landscaping design and noise barrier analysis on this project. More than 100 total receptors were modeled in the corridor with one new barrier and one existing barrier analyzed/re-analyzed. The project involved transforming the existing interchange into the first six-lane DDI in Virginia. As part of the endeavor, noise abatement was evaluated for potential new barriers and reevaluated for existing noise barriers. One new barrier (10 to 12 feet high and 600 feet long) was found to meet both the feasible and reasonable criteria under VDOT's State Noise Abatement Policy and was proposed to be constructed.

The overall design-build team (Michael Baker, RDA, Lane Construction) delivered the $38.9 million project on time and under budget, taking less than 23 months to complete. ***This project was selected for the 2018 Design-Build Institute of America's (DBIA) Project of the Year Award, National Award – Excellence, and National Award-Merit in Transportation.***

Relevant Project Elements

- State Owned Principal Arterial
- 58,000 VPD Capability
- Final Design of Structures, Approaches, Interchanges/Roadway
- Extensive/Innovative Drainage Techniques
- Landscape Design
- Noise Analysis and Remediation
- Constructed Under Budget
- Award Winning

Michael Baker
INTERNATIONAL

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: US 1 Over South Edisto River Bridge Replacement Location: Aiken County, SC	Name: Dane Construction	Name of Client/ Owner: South Carolina Department of Transportation Phone: 803-737-3081 Project Manager: Adam Humphries, PE Phone: 803-737-3081 Email: humphriesas@scdot.org	04/2021	01/2022	$4,224	$3,940	$1,050

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.

Michael Baker prepared plans to replace the existing bridge along U.S. 1 over the South Edisto River in Aiken County. The project included replacing the existing structure, realigning the roadway approaches as necessary, and improving the roadway to meet current design criteria.

Services included project management, field surveys, environmental documentation and NEPA compliance, environmental permitting, roadway design and plans, bridge design and plans, drainage design, geotechnical investigations, hazardous materials surveys, utility coordination and plans, subsurface engineering, right-of-way support, and construction support services.

Michael Baker provided environmental documentation, NEPA compliance and permitting services. The project crossed a segment of the South Edisto River considered to be a State navigable waterway, requiring additional coordination with SCDHEC. Sufficient design work to support the NEPA documentation was needed to quantify the impacts associated with the alternatives developed. Using an innovative approach, the Michael Baker Team was able to design the project without stream impacts at the project site which avoided the need for permittee responsible mitigation, a significant savings to the project budget and schedule. Michael Baker provided supplemental surveys as necessary throughout the design phase of the project, and prepared all plans, designs, specifications, and estimates to SCDOT's standard practices for highway construction.

Plans include preliminary roadway, right-of-way, final road construction, maintenance of traffic design, final pavement marking, and quality review. The existing 276 -foot bridge was replaced with a 290-foot, four-span structure that is the first bid-build Florida I-Beam structure in the state. The lower profile prestressed concrete beams allowed the MBI design team to meet the existing structure low chord while correcting substandard vertical profile on the roadway approaches and utilizing a low-maintenance superstructure type. The bridge utilized drilled shaft foundations to minimize the footprint of the bridge impacts within the sensitive wetlands inside the South Edisto River Floodplain. The replacement structure was built off-alignment in order to maintain traffic through the busy corridor during the bridge construction. An innovative temporary right-of-way approach was utilized to minimize the permanent impacts of the project and maintain traffic within the tight site geometry while achieving the profile revisions required within the roadway approaches. Michael Baker also performed the bridge hydraulic study, scour analysis, and geotechnical services for the bridge and roadway. Additional tasks include hazardous material surveys and reports; utility coordination and plans development; subsurface utility engineering; right-of-way phase support; and construction phase support.

Relevant Project Elements

- State Owned Minor Arterial
- 4,000 VPD
- Final Design of Structures, Approaches, Roadway, Drainage
- Extensive/Innovative MOT/TDP
- NEPA Compliance/Permitting - Designed with no impacts to streams
- Utility coordination
- ROW Support
- Construction Support

Michael Baker INTERNATIONAL

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: Route 32 Carolina Road over Cypress Swamp Bridge Replacement Location: Suffolk, VA	Name: Kokosing Construction Company	Name of Client/ Owner: City of Suffolk Phone: 757-514-7725 Project Manager: Ali A Huazy Phone: 757-514-7712 Email: ahuazy@suffolkva.us	09/2021	08/2022	$2,115	$2,131	$318

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.

Michael Baker completed stage I and stage II design services for Route 32 (Carolina Road) over Cypress Swamp in Suffolk, Virginia. Michael Baker reviewed the bridge conditions and recommended the most cost-effective replacement solution. The existing bridge is a four span concrete T-beam superstructure on concrete substructure spanning 90 ft. The replacement included a 100 ft. long span bridge with approaches matching existing conditions.

Michael Baker took the design from concept level through final design, including roadway design, right-of-way, utility, geotechnical design, structural design, and maintenance of traffic for each bridge, including obtaining the required environmental permits.

Michael Baker recommended a complete replacement of this structure, and designed to remove the permit vehicle restrictions on the existing bridge, which is located on a heavily-traveled trucking route. The final design plans included a staged construction sequence to allow one lane of traffic to remain open during construction by use of a temporary traffic signal. Michael Baker designed the replacement structure to remain within the footprint of the existing bridge with no additional city right-of-way required, and to have a low maintenance, 75-year life expectancy.
During the preliminary design phase, Michael Baker completed a thorough review of possible detour routes and a traffic analysis, and determined the best option would be to allow one lane of traffic on Route 32 through construction for both the public and cost of the project.

Michael Baker is currently providing stage III services for this project. This project was performed in compliance with LAP and VDOT specifications.

Relevant Project Elements

- Vehicular Bridge Replacement
- Existing Bridge Footprint Kept Intact
- Staged Construction Sequencing
- Maintenance of Traffic
- LAP and VDOT compliance

Michael Baker
INTERNATIONAL

TRITON CONSTRUCTION, INC. OF VIRGINIA

PO BOX 1360 SAINT ALBANS, WV 25177 T: 304.759.2100

JANUARY 18, 2023

SUBMITTED TO
VIRGINIA DEPARTMENT OF TRANSPORTATION

REQUEST FOR PROPOSAL

I-77 OVER ROUTE 606 BRIDGE REPLACEMENT

A DESIGN-BUILD PROJECT

STATE PROJECT NO: 0077-010-834.P101.C501.B644

FEDERAL PROJECT NO: NHFP-077-2(341)

CONTRACT ID NUMBER: C00117110DB115

VOLUME II

CONCEPTUAL PLANS

SUBMITTED BY

TRITON CONSTRUCTION, INC.

IN ASSOCIATION WITH

Michael Baker INTERNATIONAL

4.2.7 CONCEPTUAL ROADWAY PLANS

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES BYRNSIDE, L.S. (804) 330-3781 (H&B SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OpenRoads Designer). UPC 117110

FHWA 534 Data IIIII

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.	NHFP-077-2( ) (SEE TABULATION BELOW FOR SECTION NUMBERS)	77	(FO) 0077-010-834	1

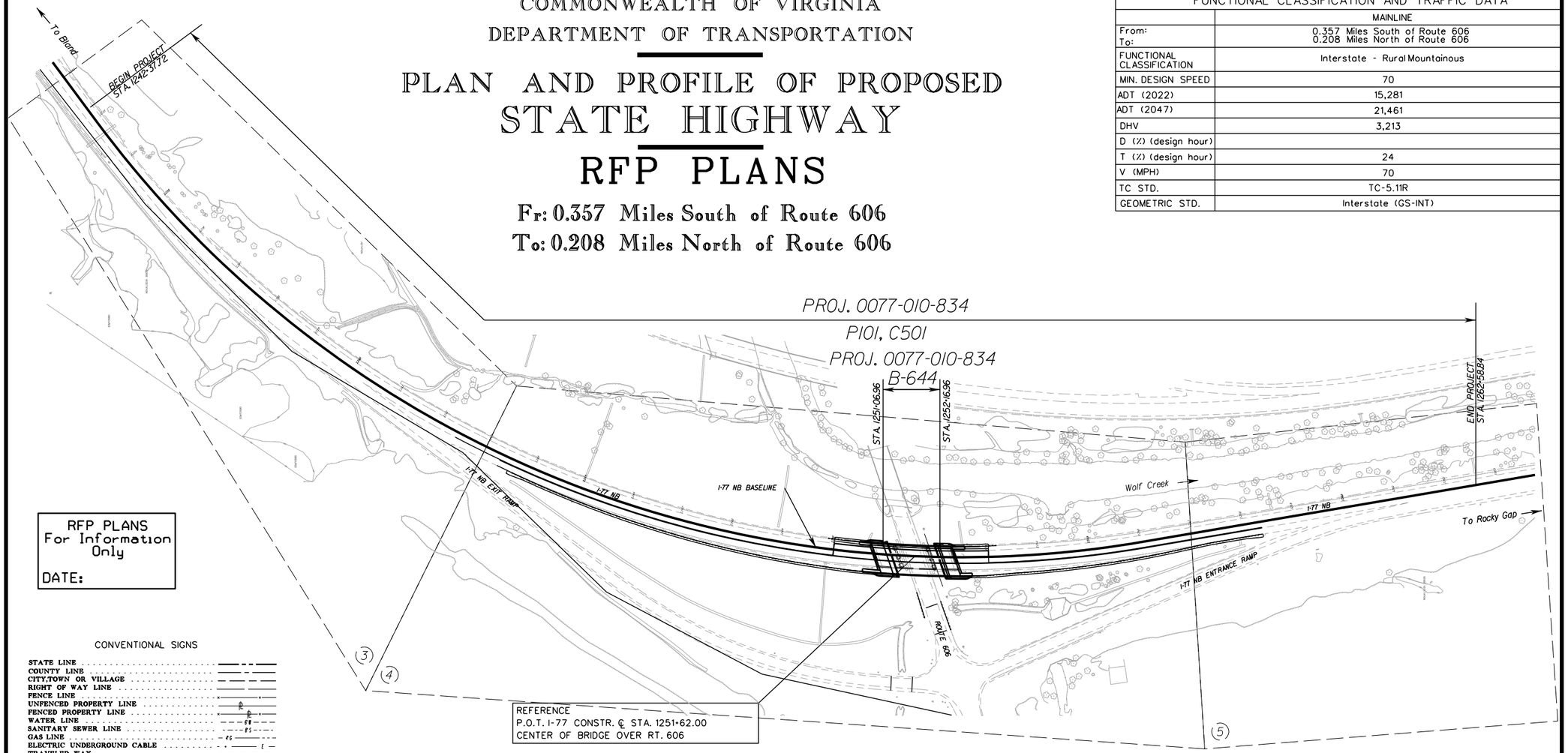
FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
	MAINLINE
From: To:	0.357 Miles South of Route 606 0.208 Miles North of Route 606
FUNCTIONAL CLASSIFICATION	Interstate - Rural Mountainous
MIN. DESIGN SPEED	70
ADT (2022)	15,281
ADT (2047)	21,461
DHV	3,213
D (%) (design hour)	
T (%) (design hour)	24
V (MPH)	70
TC STD.	TC-5.11R
GEOMETRIC STD.	Interstate (GS-INT)

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

RFP PLANS

Fr: 0.357 Miles South of Route 606
To: 0.208 Miles North of Route 606



REFERENCE
P.O.T. I-77 CONSTR. ℄ STA. 1251+62.00
CENTER OF BRIDGE OVER RT. 606

RFP PLANS
For Information Only

DATE:

CONVENTIONAL SIGNS

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

Population Bland County, 6,270 (2020 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
0077-010-834	P101	NFHP-077-2(321)		117110		2981.12	0.565	2871.12	0.544		Prel. Engr.	Fr: 0.357 Miles South of Route 606
												To: 0.208 Miles North of Route 606
	B644	NFHP-077-2(321)	X271	117110		110	0.021			185-15	Bridge	Bridge carrying I-77 NBL over Rt. 606
												(State Str. No. 2023)
	C501	NFHP-077-2(343)	1000	117110		2981.12	0.565	2871.12	0.544		Construction	Fr: 0.357 Miles South of Route 606
												To: 0.208 Miles North of Route 606

Project Lengths are based on I-77 Construction Centerline.

All construction is to be performed within the existing right of way.

SCALE
0 100 200

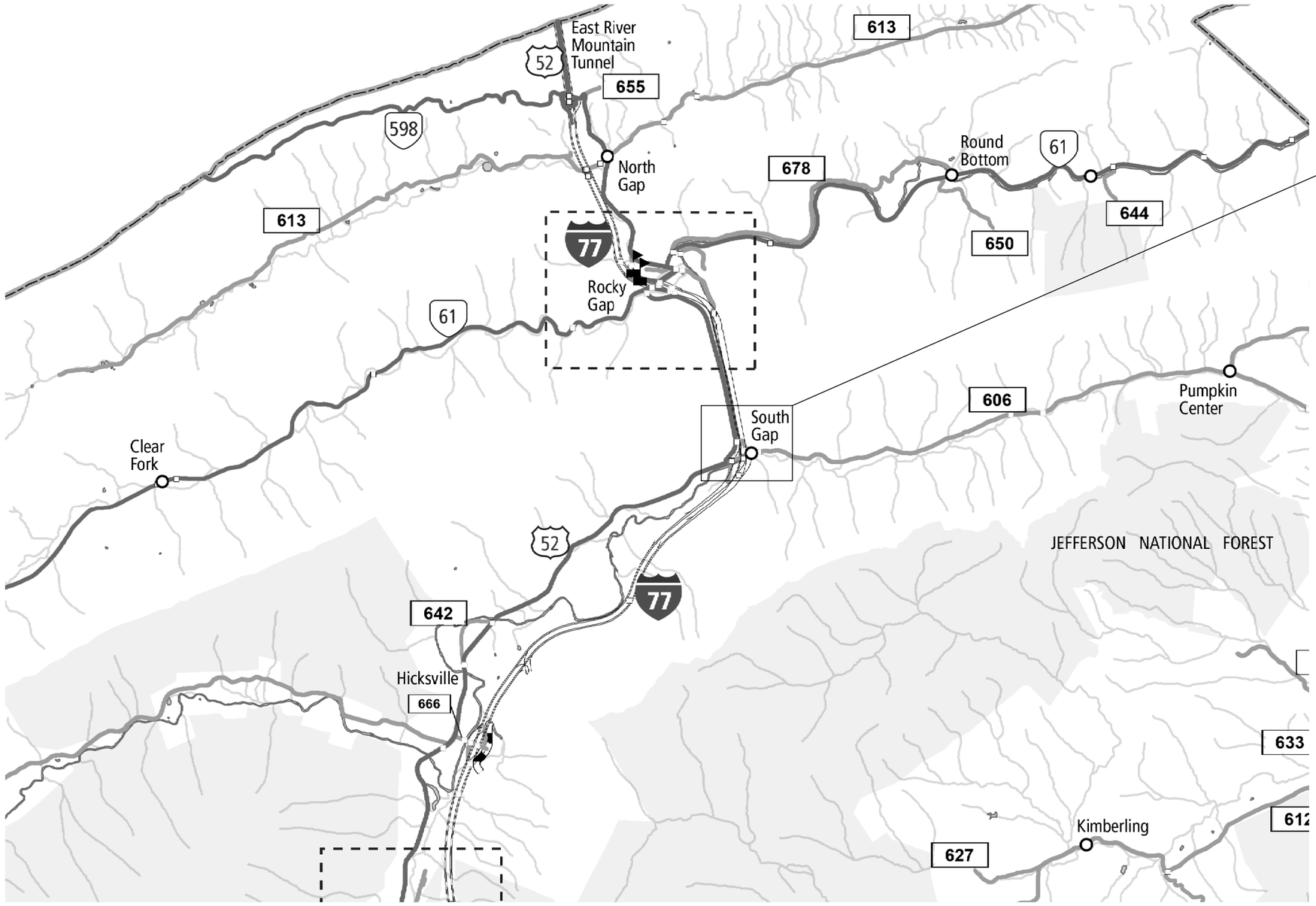
PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES BRYANS/DE, L.S. (804) 330-3781/H&B SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8220 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK/1/12/2022 _ _ _ _ _ _ _ .

LOCATION MAP
BLAND COUNTY

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834,C501	IA

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

BLAND COUNTY
POPULATION 6,270
2020 CENSUS



I-77 OVER ROUTE 606
PROJECT *0077-010-834, B644, P101, C501

RFP PLANS
For Information Only
DATE:

NOT TO SCALE	PROJECT 0077-010-834	SHEET NO. IA

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8170 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

INDEX OF SHEETS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834,C501	IB

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

BRIDGE PLANS, B-644, PLAN NO. ___-__ (5 SHEETS)

RFP PLANS
For Information Only
DATE:

	PROJECT	SHEET NO.
	0077-010-834	IB

1/12/2023
3:51:51 PM

dlf7\100\E(1).dgn
Plotted By: jstrange

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834,C501	IE(1)

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

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE J.E.S. BRANSIDE, L.S. (804) 330-3761 (H&R SURVEYING AND MAPPING, LLC), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8170 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK 1/12/2022 _____.

DESIGNED BY <Designer Name (000) 000-0000 (District)>

SURVEY CONTROL DATA

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D.: 976 Date: 03-13-20

VDOT Project Coordinates (2014)
East (X): N/A ft.
North (Y): N/A ft.
Elevation: N/A ft.

VA State Plane Coordinates: NAD 83- U.S. Survey Feet
East (X): 10724403.269 ft.
North (Y): 3608811.390 ft.
Ortho. Elevation (H): 2174.85 ft.
Zone: North_ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude: 37° 12' 19.47371" N (5 Decimal Places)
Longitude: 81° 06' 17.44114" W (5 Decimal Places)
Geoid Separation (N): -101.41
Ellipsoid Height (h): 2073.44
Horizontal Datum: NAD83 Year: 2011
Vertical Datum: NAVD88 Geoid: 12B
Azimuth to Station: 977 Is 54° 04' 01"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

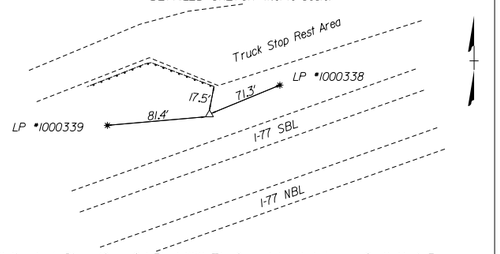
Project Information
Project Number: UPC 99569
Route: 77 City/County: Bland
Established By: Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula:

• Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

• Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. South 1.1 mi. From Overpass Of I-77 & Route 606. Station 81.4' East From Light Pole #1000339, 17.5' South From Guardrail 71.3' West From From Light Pole #1000338.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D.: 977 Date: 03-13-20

VDOT Project Coordinates (2014)
East (X): N/A ft.
North (Y): N/A ft.
Elevation: N/A ft.

VA State Plane Coordinates: NAD 83- U.S. Survey Feet
East (X): 10724855.714 ft.
North (Y): 3609139.305 ft.
Ortho. Elevation (H): 2169.56 ft.
Zone: North_ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude: 37° 12' 22.83815" N (5 Decimal Places)
Longitude: 81° 06' 11.96220" W (5 Decimal Places)
Geoid Separation (N): -101.42
Ellipsoid Height (h): 2068.14
Horizontal Datum: NAD83 Year: 2011
Vertical Datum: NAVD88 Geoid: 12B
Azimuth to Station: 976 Is 234° 04' 01"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

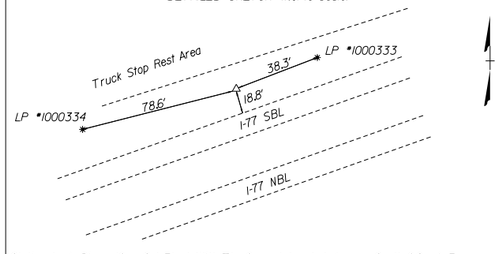
Project Information
Project Number: UPC 99569
Route: 77 City/County: Bland
Established By: Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula:

• Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

• Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. South 0.9 mi. From Overpass Of I-77 & Route 606. Station 78.6' East From Light Pole #1000339, 18.8' North From Edge Of Pavement, 38.3' West From Light Pole #1000338.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D.: 978 Date: 03-13-20

VDOT Project Coordinates (2014)
East (X): N/A ft.
North (Y): N/A ft.
Elevation: N/A ft.

VA State Plane Coordinates: NAD 83- U.S. Survey Feet
East (X): 10727122.511 ft.
North (Y): 3610928.684 ft.
Ortho. Elevation (H): 2129.63 ft.
Zone: North_ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude: 37° 12' 41.41115" N (5 Decimal Places)
Longitude: 81° 05' 44.55988" W (5 Decimal Places)
Geoid Separation (N): -101.45
Ellipsoid Height (h): 2028.18
Horizontal Datum: NAD83 Year: 2011
Vertical Datum: NAVD88 Geoid: 12B
Azimuth to Station: 979 Is 38° 55' 39"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

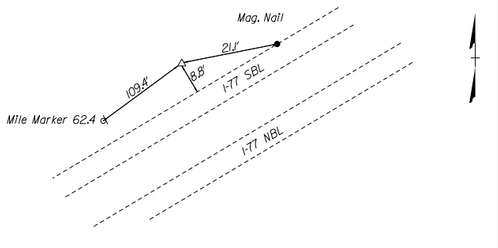
Project Information
Project Number: UPC 99569
Route: 77 City/County: Bland
Established By: Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula:

• Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

• Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. 0.35 mi. South From Overpass Of I-77 & Route 606. Station Is 109.4' Northeast From Mile Marker 62.4, 21.1' West From Mag. Nail Set, 8.8' Northest From Edge Of Pavement.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D.: 979 Date: 03-13-20

VDOT Project Coordinates (2014)
East (X): N/A ft.
North (Y): N/A ft.
Elevation: N/A ft.

VA State Plane Coordinates: NAD 83- U.S. Survey Feet
East (X): 10727524.696 ft.
North (Y): 3611426.627 ft.
Ortho. Elevation (H): 2116.99 ft.
Zone: North_ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude: 37° 12' 46.17203" N (5 Decimal Places)
Longitude: 81° 05' 39.75897" W (5 Decimal Places)
Geoid Separation (N): -101.45
Ellipsoid Height (h): 2015.54
Horizontal Datum: NAD83 Year: 2011
Vertical Datum: NAVD88 Geoid: 12B
Azimuth to Station: 978 Is 218° 55' 39"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

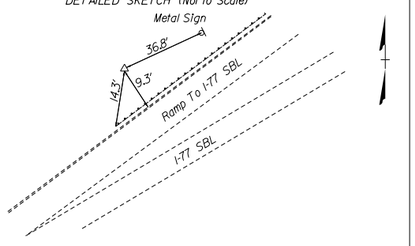
Project Information
Project Number: UPC 99569
Route: 77 City/County: Bland
Established By: Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula:

• Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

• Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. South 0.2 mi. From Overpass Of I-77 & Route 606. Station 14.3' North From End Of Guardrail, 36.8' West From A Metal Sign, 9.3' North From From Back Of Curb.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D.: 980 Date: 03-13-20

VDOT Project Coordinates (2014)
East (X): N/A ft.
North (Y): N/A ft.
Elevation: N/A ft.

VA State Plane Coordinates: NAD 83- U.S. Survey Feet
East (X): 10727480.608 ft.
North (Y): 3611979.393 ft.
Ortho. Elevation (H): 2056.96 ft.
Zone: North_ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude: 37° 13' 50.92640" N (5 Decimal Places)
Longitude: 81° 05' 42.53045" W (5 Decimal Places)
Geoid Separation (N): -101.49
Ellipsoid Height (h): 1955.47
Horizontal Datum: NAD83 Year: 2011
Vertical Datum: NAVD88 Geoid: 12B
Azimuth to Station: 981 Is 349° 14' 51"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

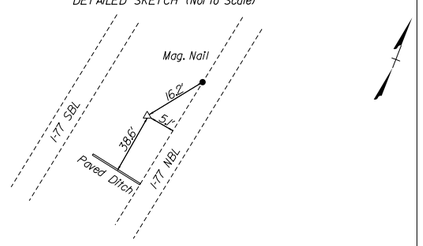
Project Information
Project Number: UPC 99569
Route: 77 City/County: Bland
Established By: Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula:

• Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

• Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. North 1.0 mi. From Overpass Of I-77 & Route 606. Station 38.6' North From Center Of Paved Ditch, 16.2' South From A Mag. Nail Set, 5.1 West From From Edge Of Pavement.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D.: 981 Date: 03-13-20

VDOT Project Coordinates (2014)
East (X): N/A ft.
North (Y): N/A ft.
Elevation: N/A ft.

VA State Plane Coordinates: NAD 83- U.S. Survey Feet
East (X): 10727394.874 ft.
North (Y): 3611843.863 ft.
Ortho. Elevation (H): 2052.72 ft.
Zone: North_ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude: 37° 13' 55.36534" N (5 Decimal Places)
Longitude: 81° 05' 43.74367" W (5 Decimal Places)
Geoid Separation (N): -101.49
Ellipsoid Height (h): 1951.23
Horizontal Datum: NAD83 Year: 2011
Vertical Datum: NAVD88 Geoid: 12B
Azimuth to Station: 980 Is 169° 14' 51"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

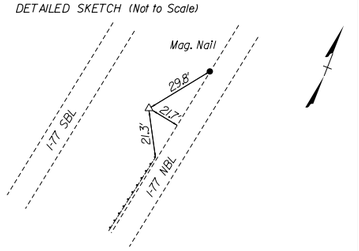
Project Information
Project Number: UPC 99569
Route: 77 City/County: Bland
Established By: Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula:

• Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

• Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. North 1.1 mi. From Overpass Of I-77 & Route 606. Station 21.3' North From End Of Guardrail, 29.8' South From A Mag. Nail Set, 21.7' West From From Edge Of Pavement.

LD-200 (REV. 10/2014)

RFP PLANS
For Information Only

DATE:

PROJECT	SHEET NO.
0077-010-834	IE(1)

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258, (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER, INTERNATIONAL (757) 463-8070 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022

SURVEY CONTROL DATA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834,C501	IE(2)

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

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #1

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
978		3,611,461.408	10,728,705.094	2,129.55	Mon.
979	N 38° 55' 39" E 640.17'	3,611,959.424	10,729,107.338	2,116.99	Mon.
1	N 15° 36' 18" E 494.09'	3,612,435.298	10,729,240.248	2,095.06	Rod & Cap
2	N 21° 06' 20" E 498.39'	3,612,900.256	10,729,419.712	2,083.30	Rod & Cap
3	N 66° 15' 07" E 514.68'	3,613,107.527	10,729,890.814	2,079.63	Rod & Cap
4	N 79° 06' 30" E 387.98'	3,613,180.837	10,730,271.808	2,076.17	Rod & Cap
5	N 28° 11' 22" W 386.95'	3,613,521.888	10,730,089.020	2,085.07	Rod & Cap
6	N 28° 49' 50" W 358.45'	3,613,835.904	10,729,916.170	2,094.59	Rod & Cap
7	N 7° 38' 39" W 402.52'	3,614,234.844	10,729,862.626	2,089.78	Rod & Cap
8	N 9° 19' 25" W 393.04'	3,614,622.687	10,729,798.951	2,085.60	Rod & Cap
9	N 11° 24' 55" W 434.69'	3,615,048.778	10,729,712.918	2,082.54	Rod & Cap
10	N 10° 07' 03" W 440.61'	3,615,482.540	10,729,635.517	2,079.22	Rod & Cap
11	N 9° 55' 25" W 484.78'	3,615,960.062	10,729,551.973	2,075.85	Rod & Cap
12	N 9° 12' 54" W 464.25'	3,616,418.324	10,729,477.628	2,072.14	Rod & Cap
13	N 9° 53' 50" W 542.95'	3,616,953.196	10,729,384.306	2,068.75	Rod & Cap
14	N 9° 12' 55" W 503.84'	3,617,450.533	10,729,303.618	2,064.54	Rod & Cap
15	N 10° 29' 49" W 513.08'	3,617,955.024	10,729,210.144	2,060.96	Rod & Cap
980	N 14° 44' 45" W 577.14'	3,618,513.157	10,729,063.244	2,056.96	Mon.
981	N 10° 45' 09" W 459.61'	3,618,964.694	10,728,977.497	2,052.72	Mon.

Survey Traverse Results:
Closure Precision 1:67,183

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #2

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
4		3,613,180.837	10,730,271.808	2,076.17	Rod & Cap
20	S 12°12'54" W 375.59'	3,612,813.754	10,730,192.342	2,084.09	Rod & Cap
21	S 27°48'28" W 340.62'	3,612,512.473	10,730,033.441	2,100.12	Rod & Cap
22	S 44°10'27" W 387.76'	3,612,234.363	10,729,763.235	2,115.39	Rod & Cap
23	S 30°36'35" W 384.59'	3,611,903.360	10,729,567.405	2,119.72	Rod & Cap
24	S 45°07'54" W 402.30'	3,611,619.546	10,729,282.284	2,125.37	Rod & Cap
25	S 52°02'05" W 387.98'	3,611,380.870	10,728,976.410	2,129.43	Rod & Cap
26	S 63°58'17" W 418.67'	3,611,197.147	10,730,089.020	2,085.07	Rod & Cap
978	N 21°38'59" E 284.32'	3,611,461.408	10,728,705.094	2,129.55	Mon.

Survey Traverse Results:
Closure Precision 1:67,183

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #3

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
976		3,609,343.802	10,725,985.451	2,174.85	Mon.
977	N 54°04'01" E 558.86'	3,609,671.765	10,726,437.963	2,169.56	Mon.
40	N 53°10'55" E 404.63'	3,609,914.247	10,726,761.883	2,165.18	Rod & Cap
41	N 51°05'43" E 423.13'	3,610,179.984	10,727,091.160	2,161.83	Rod & Cap
42	N 52°13'59" E 517.01'	3,610,496.625	10,727,499.859	2,153.38	Rod & Cap
43	N 52°38'53" E 525.48'	3,610,815.442	10,727,917.577	2,145.55	Rod & Cap
44	N 51°52'38" E 476.03	3,611,109.315	10,728,292.062	2,137.90	Rod & Cap
26	N 51°52'38" E 476.03	3,611,197.147	10,730,089.020	2,085.07	Rod & Cap

Survey Traverse Results:
Closure Precision 1:67,183

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #4

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
22		3,612,234.363	10,729,763.235	2,115.39	Rod & Cap
30	N 21°35'21" E 412.47'	3,612,617.895	10,729,915.002	2,108.25	Rod & Cap
31	N 9°54'53" E 394.89'	3,613,006.886	10,729,982.995	2,105.23	Mag Nail
32	N 00°23'37" W 412.21'	3,613,419.086	10,729,980.164	2,100.06	Mag Nail
6	N 8°43'42" W 421.70'	3,613,835.904	10,729,916.170	2,094.59	Rod & Cap

Survey Traverse Results:
Closure Precision 1:67,183

RFP PLANS
For Information Only

DATE:

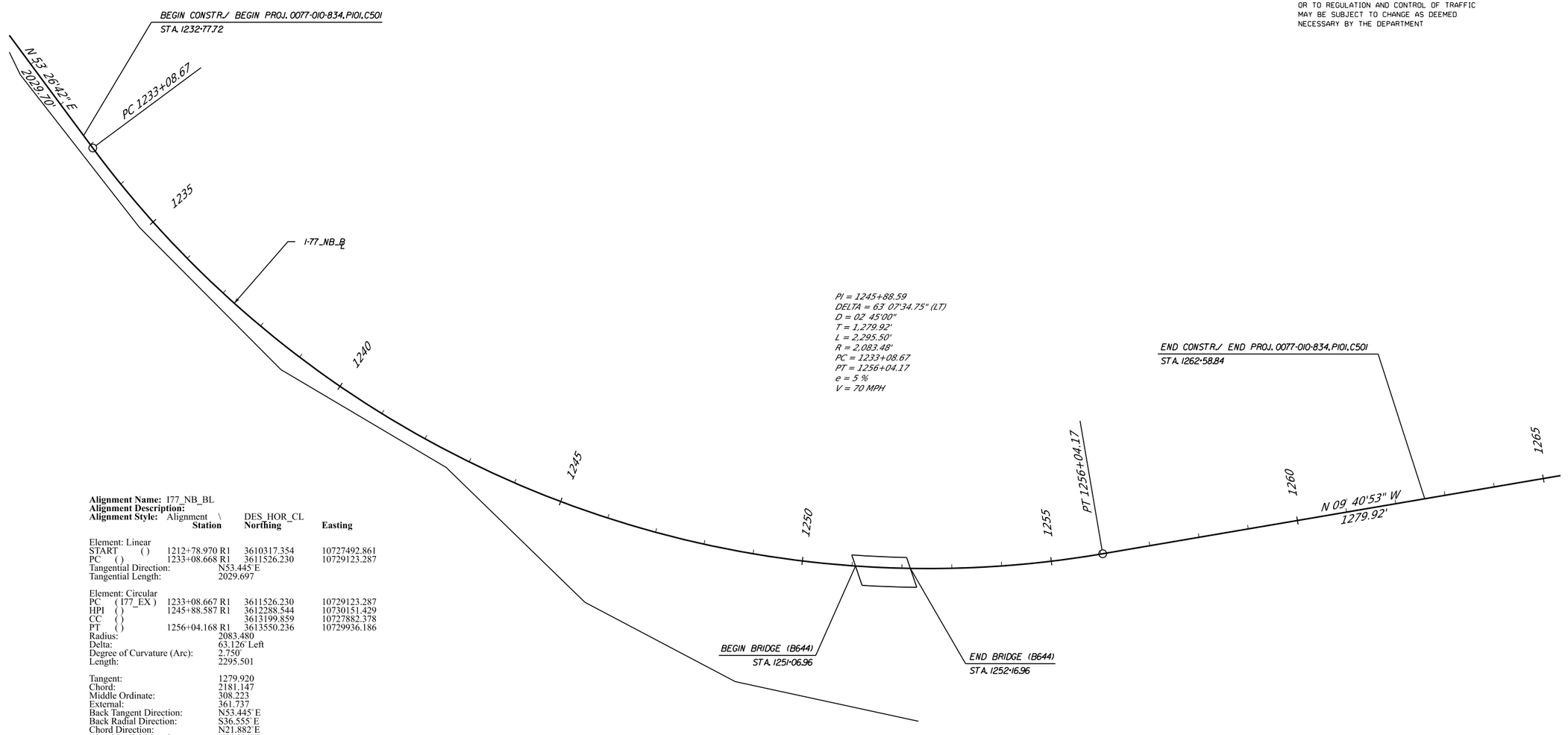
	PROJECT	SHEET NO.
	0077-010-834	IE(2)

PROJECT MANAGER: ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE: LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY: MICHAEL BAKER INTERNATIONAL (757) 463-8170 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 1/12/2022 _____.

CONSTRUCTION ALIGNMENT DATA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834,C501	lF

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



PI = 1245+88.59
DELTA = 63° 07' 34.75" (LT)
D = 02° 45' 00"
T = 1,279.92'
L = 2,295.50'
R = 2,083.48'
PC = 1233+08.67
PT = 1256+04.17
e = 5 %
V = 70 MPH

Alignment Name: I77_NB_BL
Alignment Description:
Alignment Style: Alignment \ DES_HOR_CL

		Station	Northing	Easting
Element: Linear				
START	( )	1212+78.970 R1	3610317.354	10727492.861
PC	( )	1233+08.668 R1	3611526.230	10729123.287
Tangential Direction:		N53.445° E		
Tangential Length:		2029.697		
Element: Circular				
PC	(I77_EX)	1233+08.667 R1	3611526.230	10729123.287
HPI	( )	1245+88.587 R1	3612288.544	10730151.429
CC	( )		3613199.859	10727882.378
PT	( )	1256+04.168 R1	3613550.236	10729936.186
Radius:		2083.480		
Delta:		63.126° Left		
Degree of Curvature (Arc):		2.750°		
Length:		2295.501		
Tangent:		1279.920		
Chord:		2181.147		
Middle Ordinate:		308.223		
External:		361.737		
Back Tangent Direction:		N53.445° E		
Back Radial Direction:		S36.555° E		
Chord Direction:		N21.882° E		
Ahead Radial Direction:		N80.319° E		
Ahead Tangent Direction:		N9.681° W		
Element: Linear				
PT	( )	1256+04.168 R1	3613550.236	10729936.186
END	( )	1268+84.087 R1	3614811.926	10729720.943
Tangential Direction:		N9.681° W		
Tangential Length:		1279.919		

RFP PLANS
For Information Only
DATE:

SCALE	PROJECT	SHEET NO.
0 100' 200'	0077-010-834	lF

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B SURVEYING AND MAPPING, LLC. 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK 1/12/2022 _____.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834,C501	2

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

GENERAL NOTES

DRAINAGE

D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.

D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.

D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.

D-8 Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT Road and Bridge Specifications.

GRADING

G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.

G-2 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.

G-6 The borrow material for this project shall be a minimum CBR_____ or as approved by the Materials Engineer.

PAVEMENT

P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

EROSION AND SEDIMENT CONTROL (ESC)

E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.

E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

E-3 The following symbols are used to depict Erosion and Sediment Control items in the plan assembly:

EC-2, Ty. 1 / EC-2, Ty. 2 / EC-2, Ty. 3 / EC-2, Ty. 4	Denotes Rolled Erosion Control Product, Temporary, St'd. EC-2 Type 1, 2, 3 or 4
EC-3, Ty. 1 / EC-3, Ty. 2 / EC-3, Ty. 3	Denotes Rolled Erosion Control Product, Permanent, St'd. EC-3 Type 1, 2 or 3
TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
TCD	Denotes Temporary Check Dam, St'd EC-16
TDC	Denotes Temporary Diversion Channel, St'd EC-12
DD	Denotes Temporary Diversion Dike, St'd EC-9
TC-I	Denotes Turbidity Curtain, Type - Impervious
TC-P	Denotes Turbidity Curtain, Type - Pervious
RCD-1	Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2	Denotes Rock Check Dam, Type II: St'd EC-4
IP-A	Denotes Inlet Protection, Type A: St'd EC-6
IP-B	Denotes Inlet Protection, Type B: St'd EC-6
TSI	Denotes Slope Interrupter: St'd EC-15
CD	Denotes Cofferdam
	Denotes Limits of Disturbance

E-4 Permanent vegetation shall be established on all denuded areas not otherwise stabilized with non-erodible materials. See the Roadside Development sheet for details on permanent vegetation establishment.

INCIDENTALS

I-19 The following outside sources, under contract with VDOT, have provided information on this project.

Hydraulic Design	-	Michael Baker International
Roadway Design	-	Michael Baker International
Utility Design	-	" " " "
Utility Designation	-	HDR Engineering, Inc.
Utility Location	-	HDR Engineering, Inc.
Survey	-	H&B Surveying and Mapping, LLC.
Bridge Design	-	Michael Baker International
Traffic Design	-	" " " "
Landscape Design	-	" " " "

If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.

Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, Microstation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The Microstation files will only match the scanned files if all required levels are turned on. A Microstation Software license is required to be able to read these files.

RFP PLANS
For Information Only
DATE:

NOT TO SCALE	PROJECT 0077-010-834	SHEET NO. 2

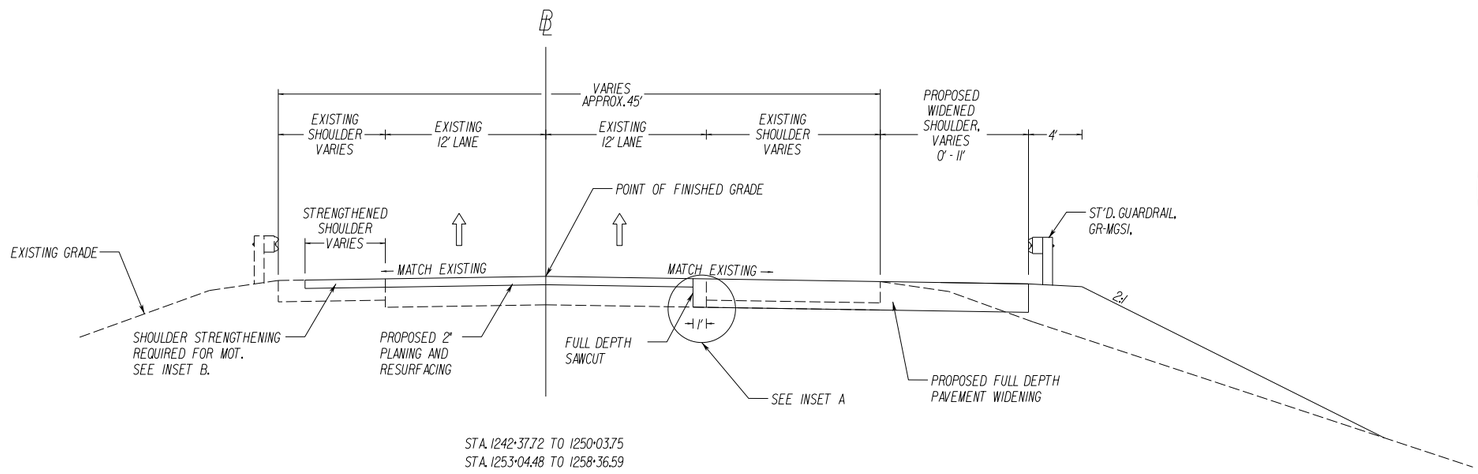
PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BRANSIDE, L.S. (804) 330-3781 LH&B. SURVEYING AND MAPPING, LLC.) 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK) 1/12/2022 _____.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834,C501	2A

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

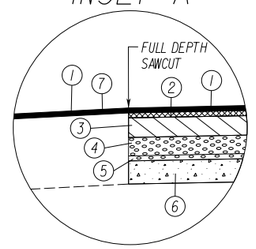
TYPICAL SECTIONS

I-77 NB

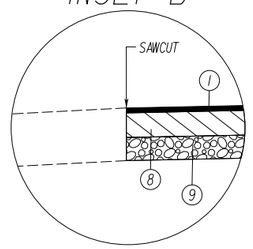


STA. 1242+37.72 TO 1250+03.75
STA. 1253+04.48 TO 1258+36.59

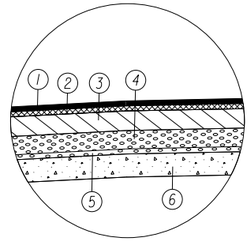
INSET A



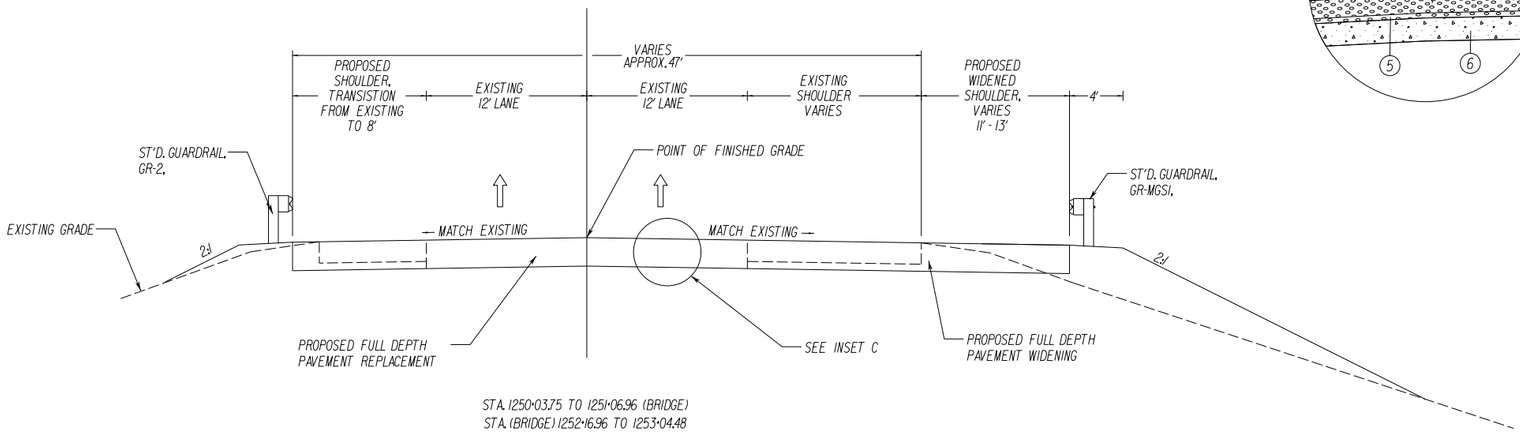
INSET B



INSET C



I-77 NB



STA. 1250+03.75 TO 1251+06.96 (BRIDGE)
STA. (BRIDGE) 1252+16.96 TO 1253+04.48

LEGEND

1. SURFACE - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE SM-12.5E ESTIMATED AT 220 LB/YD²
2. 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE IM-19.0E ESTIMATED AT 230 LB/YD²
3. BASE - 10" ASPHALT CONCRETE, TYPE BM-25.0A
4. SUBBASE - 8" AGGREGATE BASE MATERIAL, TYPE I, SIZE 21B, EXTENDED TO THE FACE OF THE STANDARD UD-4 EDGEDRAIN OR DAYLIGHT
5. SUBBASE - 2" AGGREGATE BASE MATERIAL, TYPE I, SIZE 21B - LEVELING COURSE, EXTENDED TO THE FACE OF THE STANDARD UD-4 EDGEDRAIN OR DAYLIGHT
6. SUBBASE - 12" OPEN GRADED AGGREGATE MATERIAL, TYPE I, EXTENDED TO THE FACE OF THE STANDARD UD-4 EDGEDRAIN OR DAYLIGHT
7. 2" FLEXIBLE PAVEMENT PLANING
8. BASE - 9" ASPHALT CONCRETE, TYPE BM-25.0A (PLACED IN 4-1/2" LIFTS)
9. EXISTING AGGREGATE BASE BELOW 11"

NOTES:

1. PAVEMENT WIDENING SHALL BE IN ACCORDANCE WITH VDOT STANDARD WP-2 OR PROVIDED PAVEMENT SECTION, WHICHEVER IS GREATER.
2. IF UD-4 IS ENCOUNTERED DURING FULL DEPTH SAWCUT OF EXISTING PAVEMENT, IT SHALL BE RELOCATED BELOW THE WIDENING FULL DEPTH PAVEMENT.
3. SURFACE COURSE FOR PLANING AND RESURFACING OF THE EXISTING PAVEMENT SHALL BE PLACED CONCURRENTLY.
4. EXISTING GUARDRAIL BEYOND LIMITS OF FIXED OBJECT ATTACHMENT TO REMAIN.
5. EXISTING PAVEMENT THICKNESS SHOWN FOR REFERENCE ONLY.

RFP PLANS
For Information Only
DATE:

NOT TO SCALE	PROJECT 0077-010-834	SHEET NO. 2A

1/13/2023
1:50:00 PM

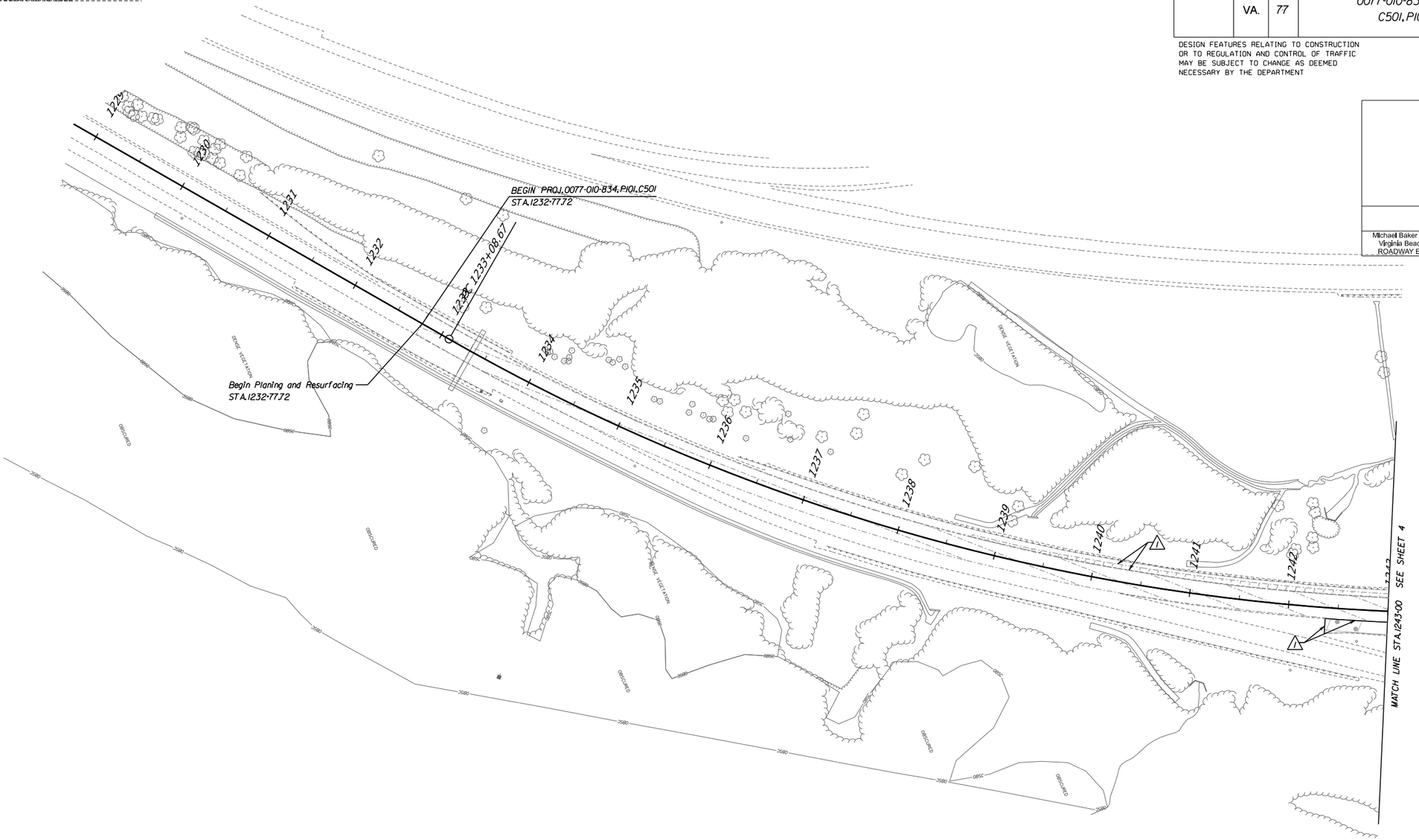
dlf11003.dgn
Plotted By: jstrange

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE L.E.S. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.) 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8170 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK 1/12/2022

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	3

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER



1 Saw Cut Full Depth Req'd.
2 Std. GR-MGS1 Req'd.
3 Std. GR-MGS2 Req'd.
4 Tie to existing guardrail
5 Std. GR-FOA-5 Req'd.
7 Std. GR-2 Req'd.
8 Std. GR-MGS4 Req'd.
9 Std. GR-9 Req'd.

DENOTES TEMPORARY PAVEMENT
DENOTES PLANING AND RESURFACING
DENOTES SHOULDER STRENGTHENING
DENOTES DEMOLITION OF PAVEMENT
DENOTES PROPOSED ASPHALT

C _ _ _ _ Denotes Construction Limits In Cuts
F _ _ _ Denotes Construction Limits In Fills

Note: Dot - dot - dashed lines denote Temporary Easements.
Dot - dashed lines denote Permanent Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Mainline Profile	3A

RFP PLANS
For Information Only
DATE:

SCALE	PROJECT	SHEET NO.
0 50' 100'	0077-010-834	3

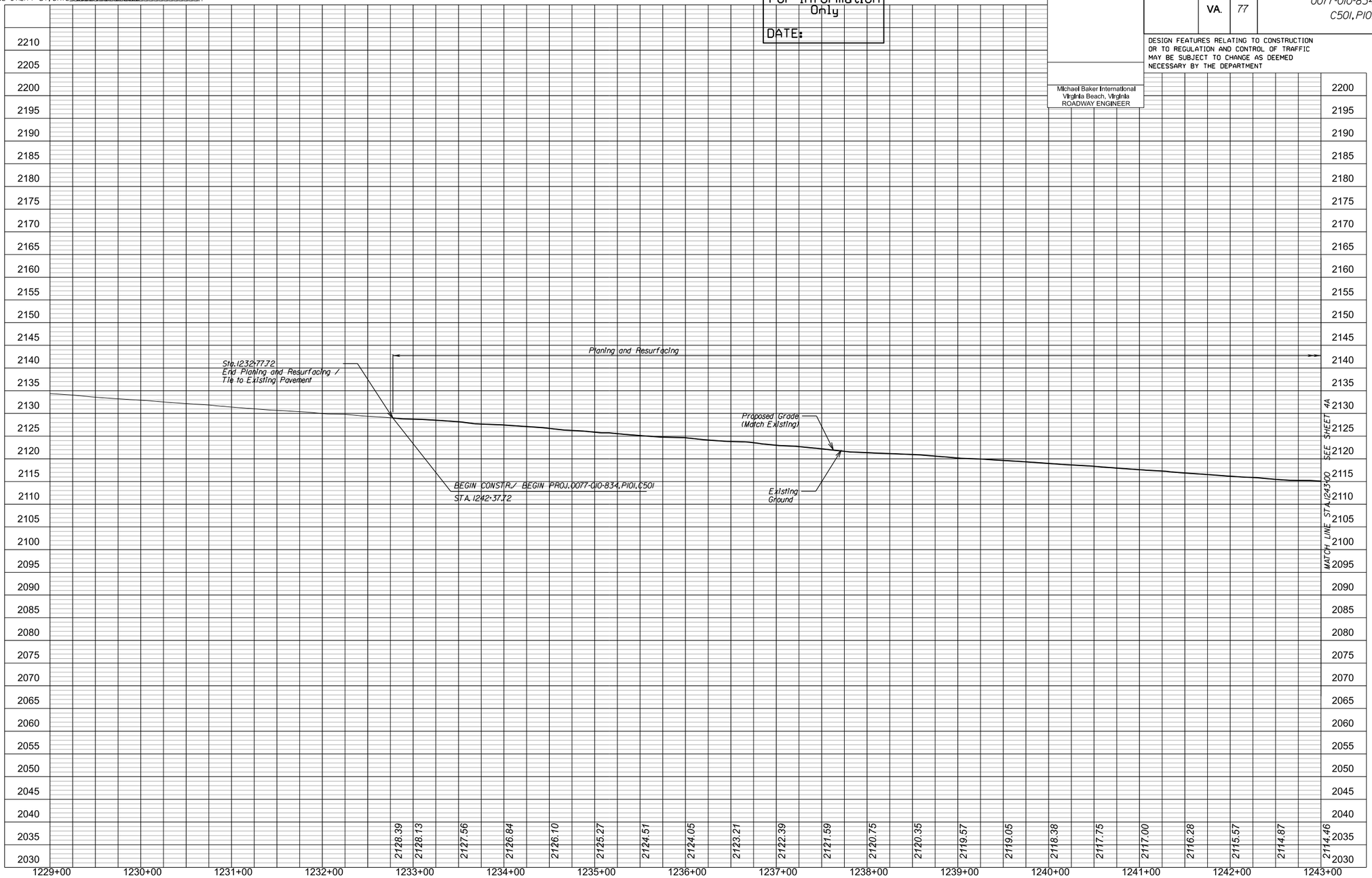
PROJECT MANAGER: ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE: L.E.S. BURNSIDE, L.S. (804) 330-3781 H&B SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY: MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE: ACCUMARK 1/12/2022

RFP PLANS
For Information Only
DATE:

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	3A

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



	PROJECT	SHEET NO.
	0077-010-834	3A

1/13/2023
1:46:58 PM

d1171004.dgn
Plotted By: jstrange

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BERNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8170 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	77	0077-010-834, B644 C501, P101	4

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER

V = ___ MPH

MATCH LINE STA.1243+00 SEE SHEET 3

Tie to existing edge of pavement. Sta.1243+33.44

FEMA BFE (Approx.)

BEGIN PROJ.0077-010-834, B644 STA.1251+06.96

Class 1 Riprap, 40 Tons

End Planing and Resurfacing Begin Full Depth STA.1250+03.75

1-77 NB Constr.BL

Remove 24 LF Ex.Conc.Flume and Construct 14 LF New Conc.Flume (Connect to Ex.Flume)

Existing bridge to be removed

END PROJ.0077-010-834, B644 STA.1252+16.96

Remove 50 LF Ex.Conc.Flume

50 LF Conc.Flume

End Full Depth Begin Planing and Resurfacing STA.1255+04.48

1256+04.17

MATCH LINE STA.1257+00 SEE SHEET 5

Remove and Replace Existing Wingwall

Class 1 Riprap, 4 Tons

Construct 310 LF Conc.Ditch (Connect to Ex. Conc.Ditch)

1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257

1 Saw Cut Full Depth Req'd.
2 Std. GR-MGS1 Req'd.
3 Std. GR-MGS2 Req'd.
4 Tie to existing guardrail
5 Std. GR-FOA-5 Req'd.
7 Std. GR-2 Req'd.
8 Std. GR-MGS4 Req'd.
9 Std. GR-9 Req'd.

DENOTES TEMPORARY PAVEMENT
DENOTES PLANING AND RESURFACING
DENOTES SHOULDER STRENGTHENING
DENOTES DEMOLITION OF PAVEMENT
DENOTES PROPOSED ASPHALT

C ____ Denotes Construction Limits In Cuts
F __ __ Denotes Construction Limits In Fills

Note: Dot - dot - dashed lines denote Temporary Easements.
Dot - dashed lines denote Permanent Easements.

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

Mainline Profile	4A

RFP PLANS
For Information Only
DATE:

SCALE	PROJECT	SHEET NO.
0 50' 100'	0077-010-834	4

1/13/2023
10:37:56 AM

d117110_prof.dgn
Plotted By: jstrange

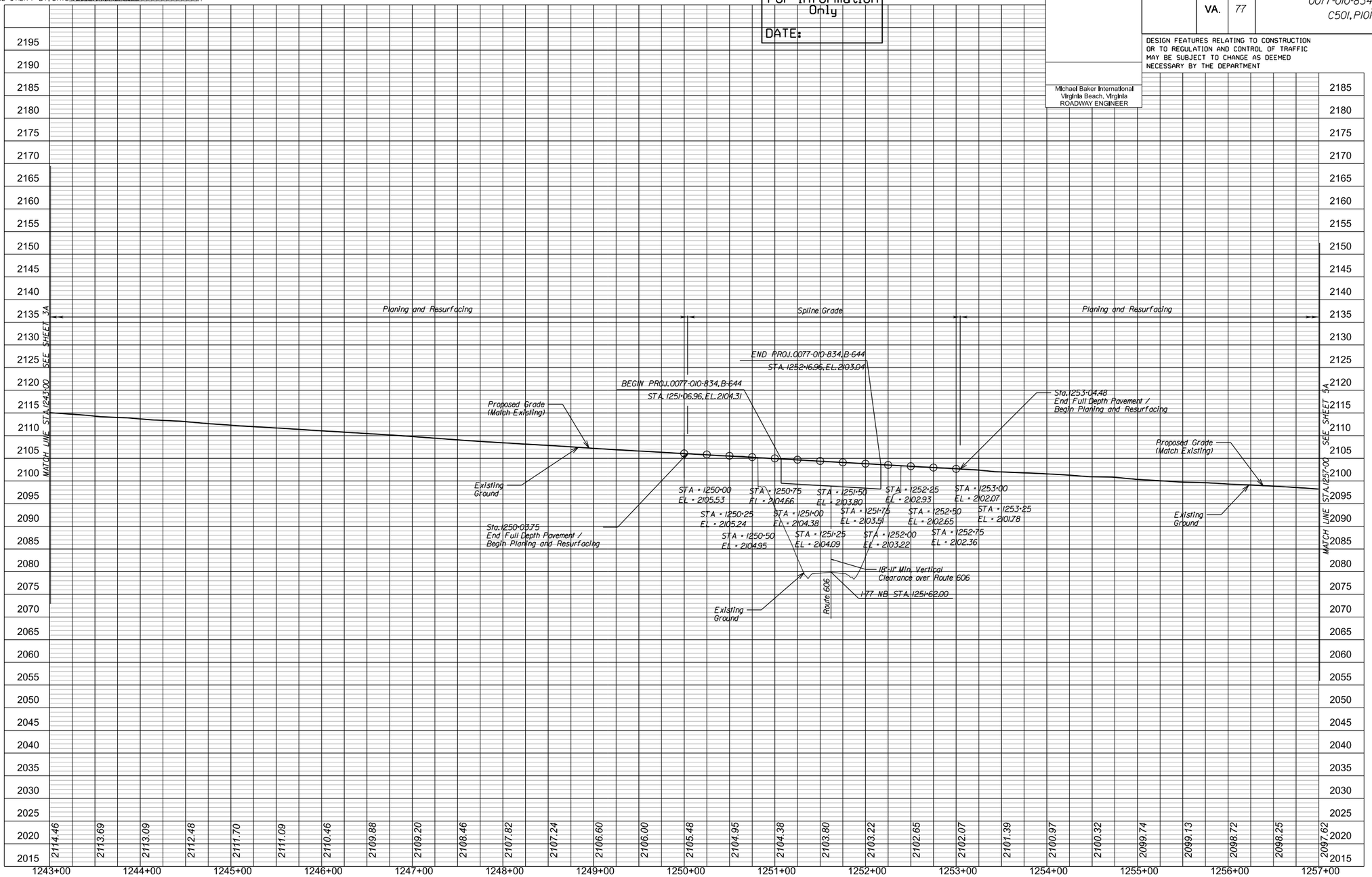
PROJECT MANAGER ROBERT_C. LEONARD,P.E. (276).696-3258. (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE_L.S.(804).330-3781 (H&B. SURVEYING_AND MAPPING,LLC.),1/10/2022
DESIGN BY MICHAEL_BAKER_INTERNATIONAL (757).463-8070_(VIRGINIA. BEACH,VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK,1/12/2022

RFP PLANS
For Information Only
DATE:

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	4A

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



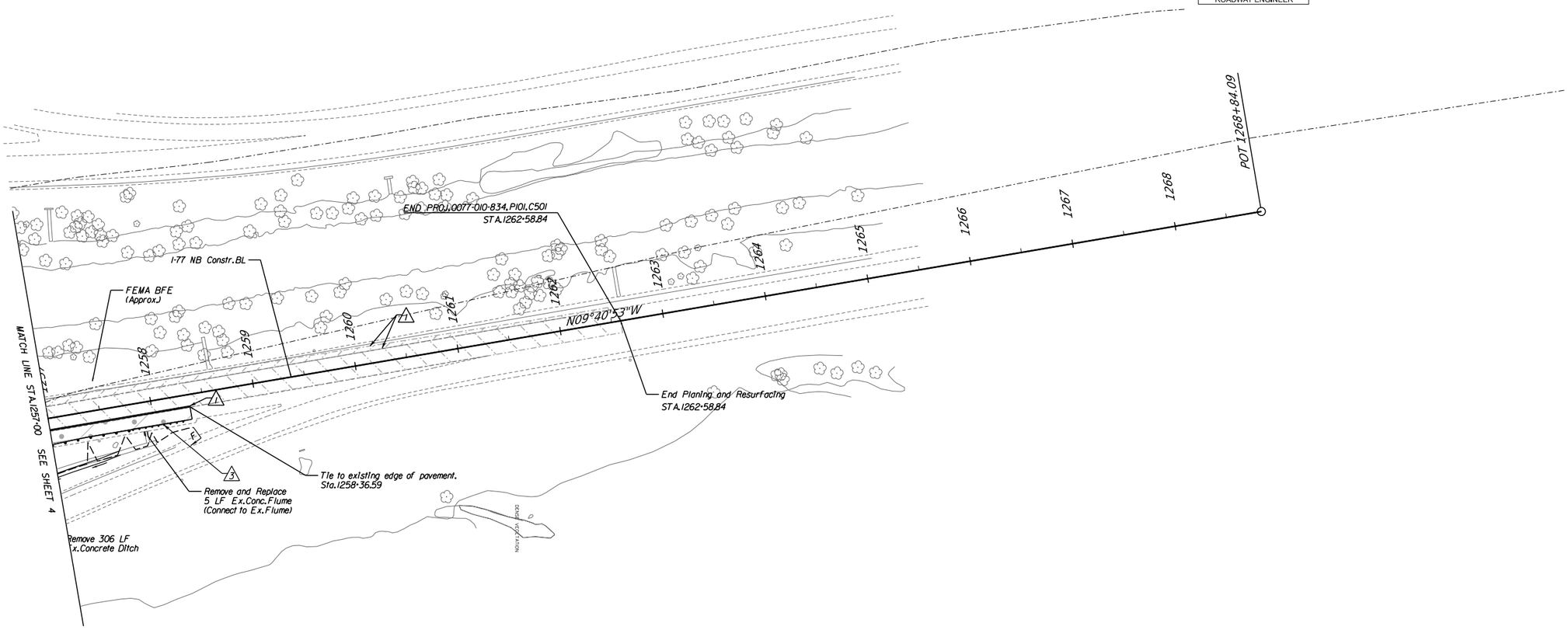
PROJECT	SHEET NO.
0077-010-834	4A

PROJECT MANAGER: ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE: LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY: MICHAEL BAKER INTERNATIONAL (757) 463-6170 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE: ACCUMARK, 1/12/2022

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, B644 C501, P101	5

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



1. Saw Cut Full Depth Req'd.
2. St'd. GR-MGSI Req'd.
3. St'd. GR-MGS2 Req'd.
4. Tie to existing guardrail
5. St'd. GR-FOA-5 Req'd.
7. St'd. GR-2 Req'd.
8. St'd. GR-MGS4 Req'd.
9. St'd. GR-9 Req'd.

DENOTES TEMPORARY PAVEMENT
DENOTES PLANING AND RESURFACING
DENOTES SHOULDER STRENGTHENING
DENOTES DEMOLITION OF PAVEMENT
DENOTES PROPOSED ASPHALT

C - - - - Denotes Construction Limits In Cuts
F - - - - Denotes Construction Limits In Fills

Note: Dot - dot - dashed lines denote Temporary Easements.
Dot - dashed lines denote Permanent Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Mainline Profile	5A

RFP PLANS
For Information Only
DATE:

SCALE	PROJECT	SHEET NO.
0 50' 100'	0077-010-834	5

1/13/2023
10:38:27 AM

d117110_prof.dgn
Plotted By: jstrange

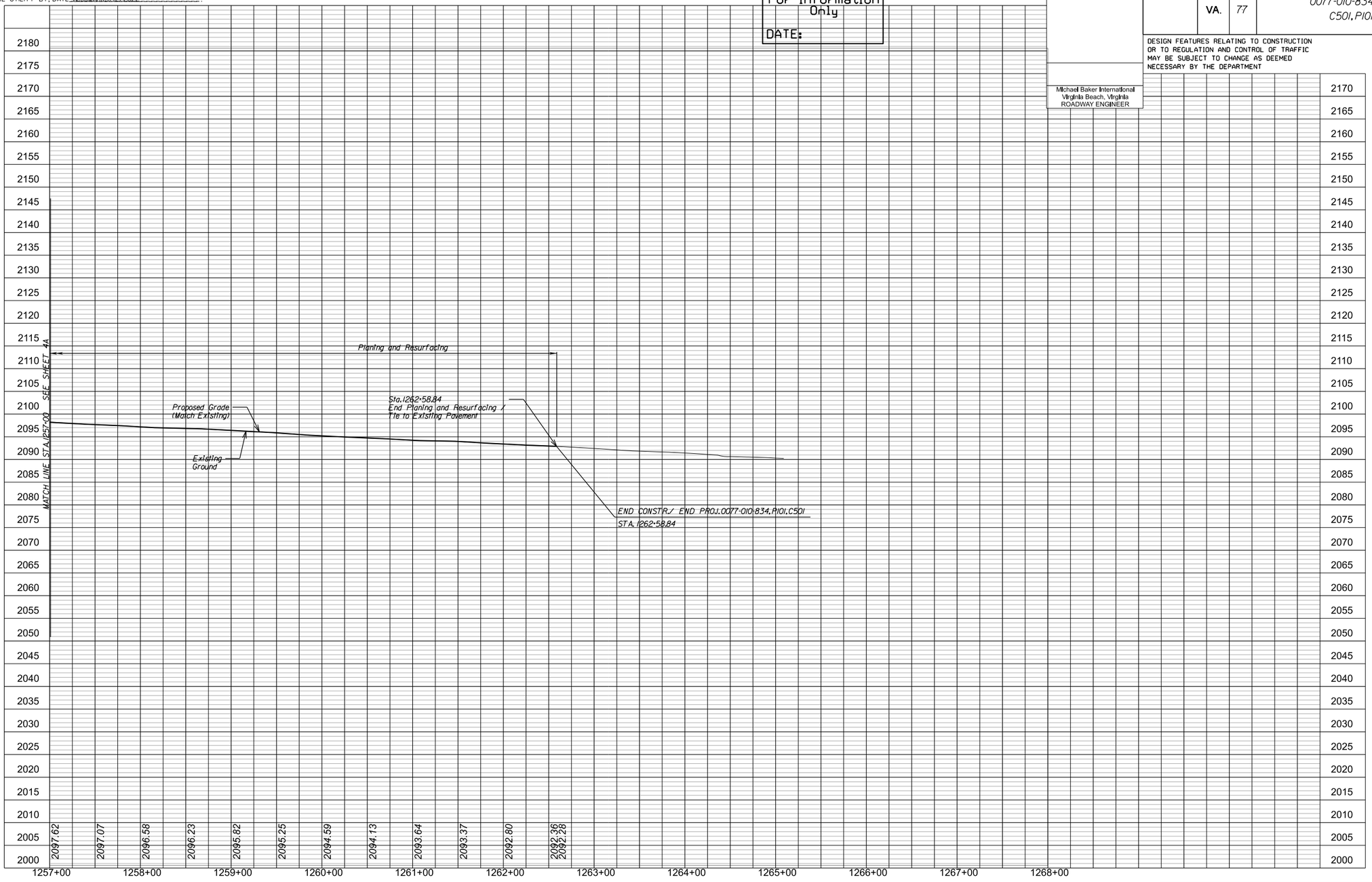
PROJECT MANAGER: ROBERT_C_LEONARD,P.E._(276)696-3258_(BRISTOL DISTRICT)
SURVEYED BY, DATE: LES_BYRNSIDE_LS_(804)_330-3781_(H&B_SURVEYING_AND_MAPPING,LLC),1/10/2022
DESIGN BY: MICHAEL_BAKER_INTERNATIONAL_(757)_463-8170_(VIRGINIA_BEACH,VIRGINIA)
SUBSURFACE UTILITY BY, DATE: ACCUMARK,1/12/2022

RFP PLANS
For Information Only
DATE:

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	5A

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



PROJECT	SHEET NO.
0077-010-834	5A

4.2.8
CONCEPTUAL BRIDGE PLANS

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—	NHFP-077-2(321)	77	0077-010-834, B644	1
Federal Structure No. 00000000031578			FHWA Construction and Scour Code:		X271-SN
Federal Stewardship and Oversight Code:		FO		UPC No. 117110	

GENERAL NOTES:

The original approved sheet, including original signatures, is filed in the VDOT Central Office. Any misuse of electronic files, including scanned signatures is illegal. Violators will be prosecuted to the full extent of the applicable laws.

Width: 56'-1" face-to-face of curb.

Span layout: 110'-0" composite girder span.

Capacity: HL-93 loading.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

Design loading includes 20 psf allowance for construction tolerances and construction methods.

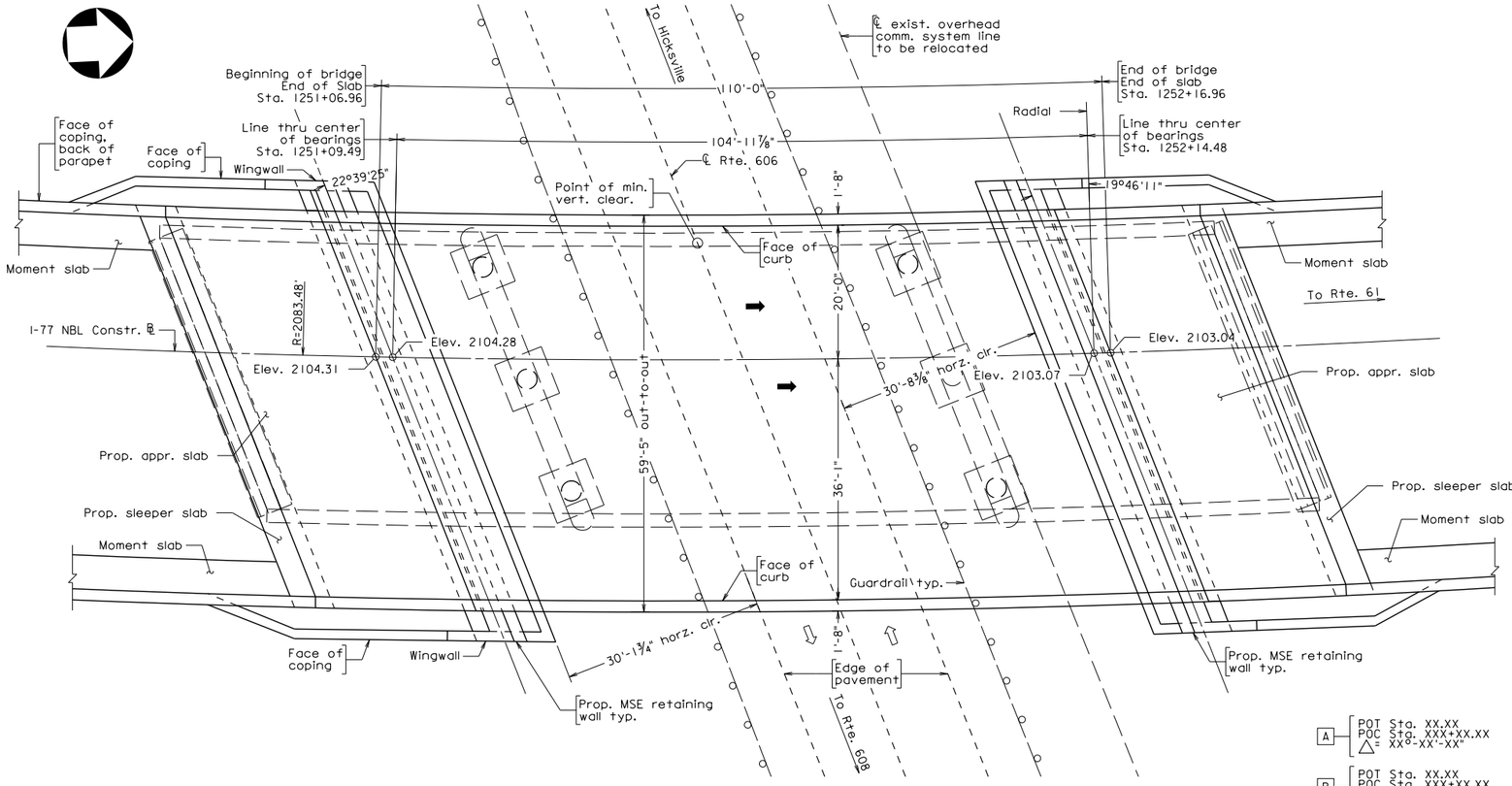
Design loading includes 15 psf allowance for future wearing surface.

Bridge No. of existing bridge is 2023. Plan No. is 185-15.

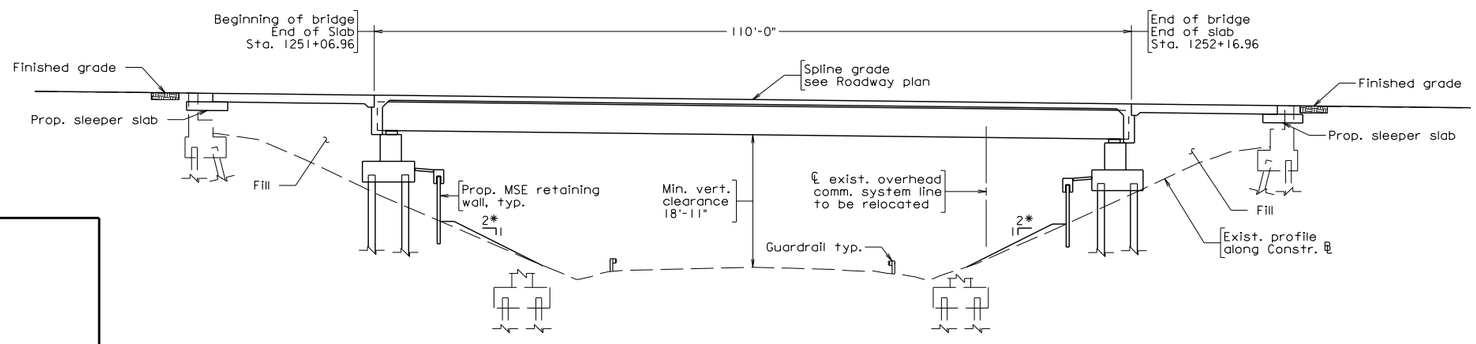
PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

These plans depict the approximate location and layout of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements are preliminary, and not to be used for any type of construction or the acquisition of right of way.



PLAN



ABUTMENT A ABUTMENT B

*Normal to MSE wall

DEVELOPED SECTION ALONG I-77 NBL CONST. ℄

Scale: 1" = 10'-0"

No.	Description	Date
	REVISIONS	
	For Table of Revisions, see Sheet 2.	

VDOT

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE REPLACEMENT
I-77 NBL OVER RTE. 606
BLAND COUNTY
2.0 MI. S. OF I-77 NBL OVER RTE. 61
PROJ. 0077-010-834, B644

Recommended for Approval: _____ State Structure and Bridge Engineer — Date

Approved: _____ Chief Engineer — Date

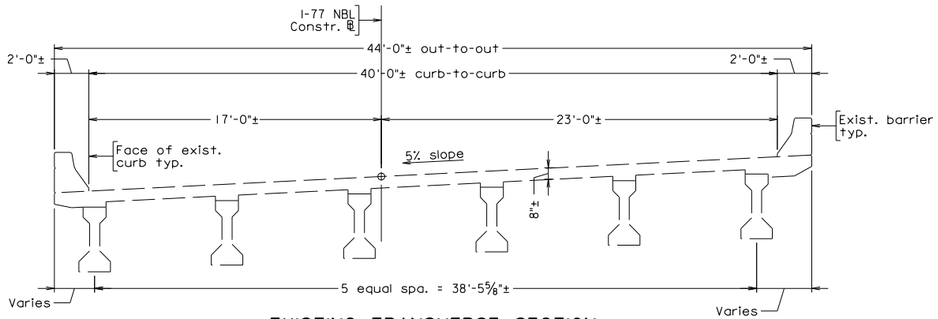
XXX-XX

Date: January 2023

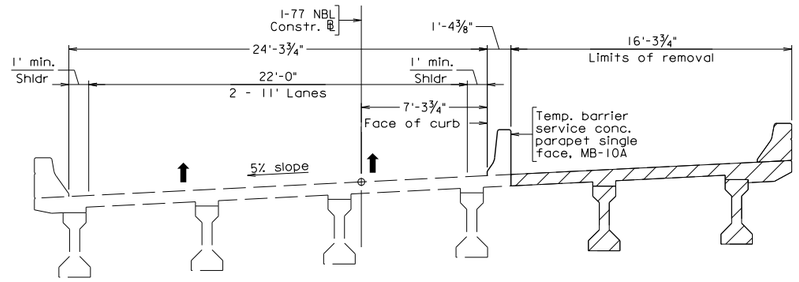
Sheet 1 of 5

XXX-XX_001.dgn

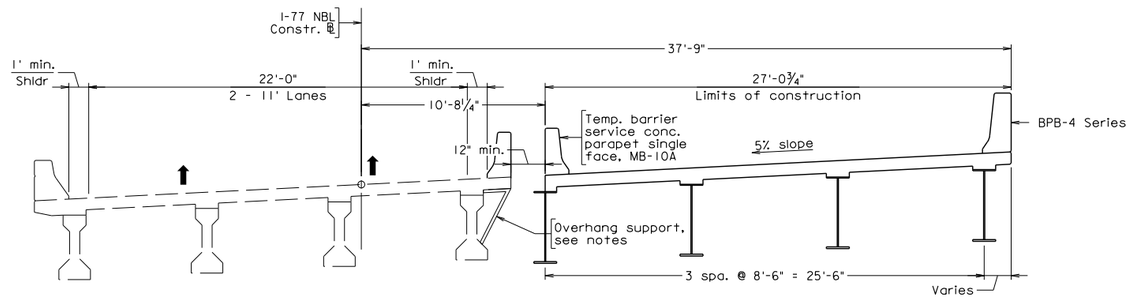
STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	——		77	0077-010-834, B644	2



EXISTING TRANSVERSE SECTION



PHASE I REMOVAL



PHASE I CONSTRUCTION

Notes:

Minimum of two 11' lanes and 1' shoulders shall be maintained.

Removal work shall conform to Section 412 of the specifications.

Existing superstructure is shown schematically and for information purpose only. The Contractor shall field verify the exact location and dimensions of the structure.

Contractor is responsible for maintaining stability of the piers throughout demolition and construction.

An overhang support may be required once the temporary barrier is added depending on the sequence of construction implemented by the Contractor.

Sequence of Construction Notes:

1. Install temporary traffic barrier and shift traffic as shown.
2. Remove portion of the existing structure.
3. Construct portion of the proposed structure.
4. Shift traffic to newly constructed portion of the bridge.
5. Remove the remaining portion of the existing structure.
6. Construct the remaining portion of the proposed structure.
7. Shift traffic lanes to final configuration and open bridge to traffic.

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Denotes limits of removal

XXX-XX_002.dgn

Scale: ¼" = 1'-0"

No.	Description	Date
Revisions		

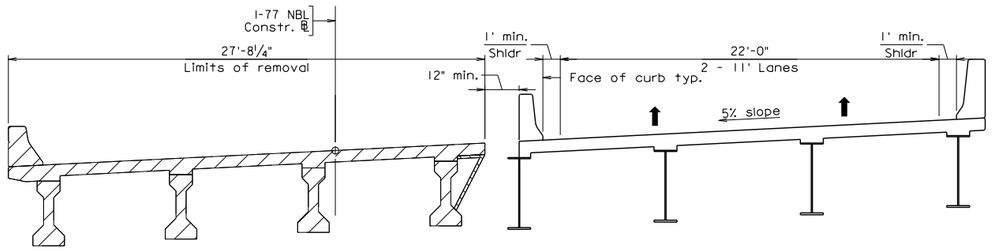
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

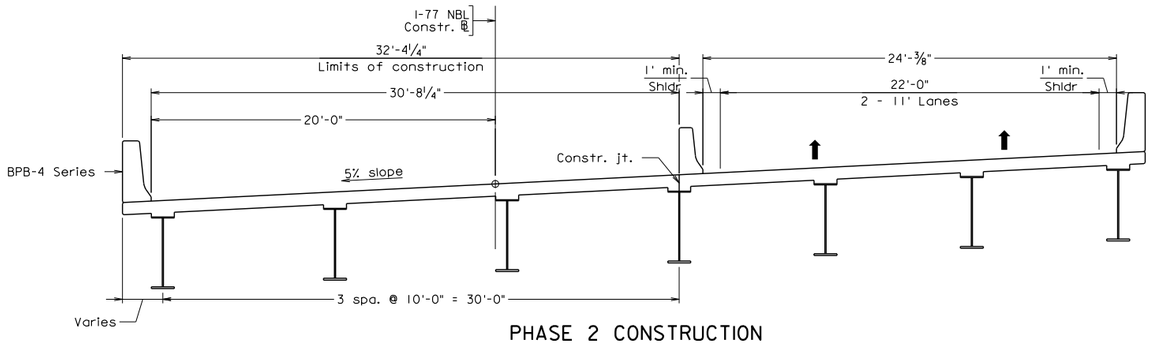
I-77 NBL OVER RTE. 606
SEQUENCE OF CONSTRUCTION I

Designed: ..... / Drawn: ..... / Checked:	Date	Plan No.	Sheet No.
	Jan. 2023	XXX-XX	2 of 5

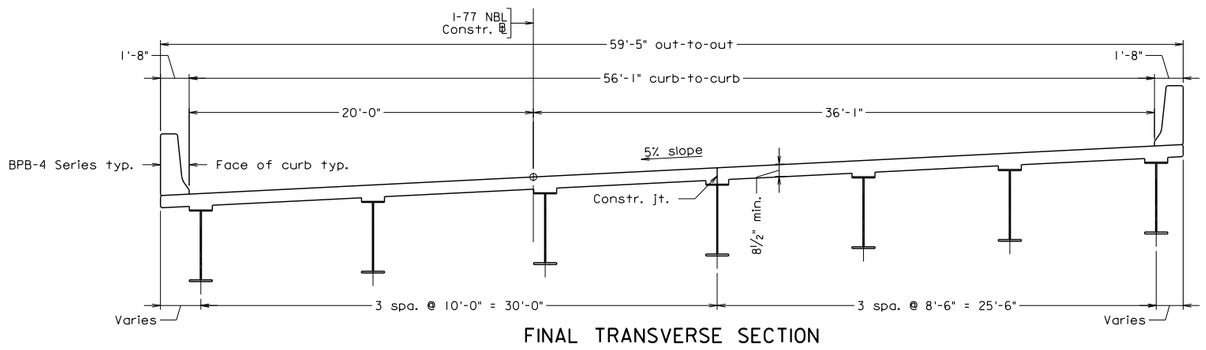
STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		77	0077-010-834, B644	3



PHASE 2 REMOVAL



PHASE 2 CONSTRUCTION



FINAL TRANSVERSE SECTION

Notes:

For Sequence of Construction notes, see sheet 2.

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Denotes limits of removal

XXX-XX_003.dgn

Scale: ¼" = 1'-0"

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

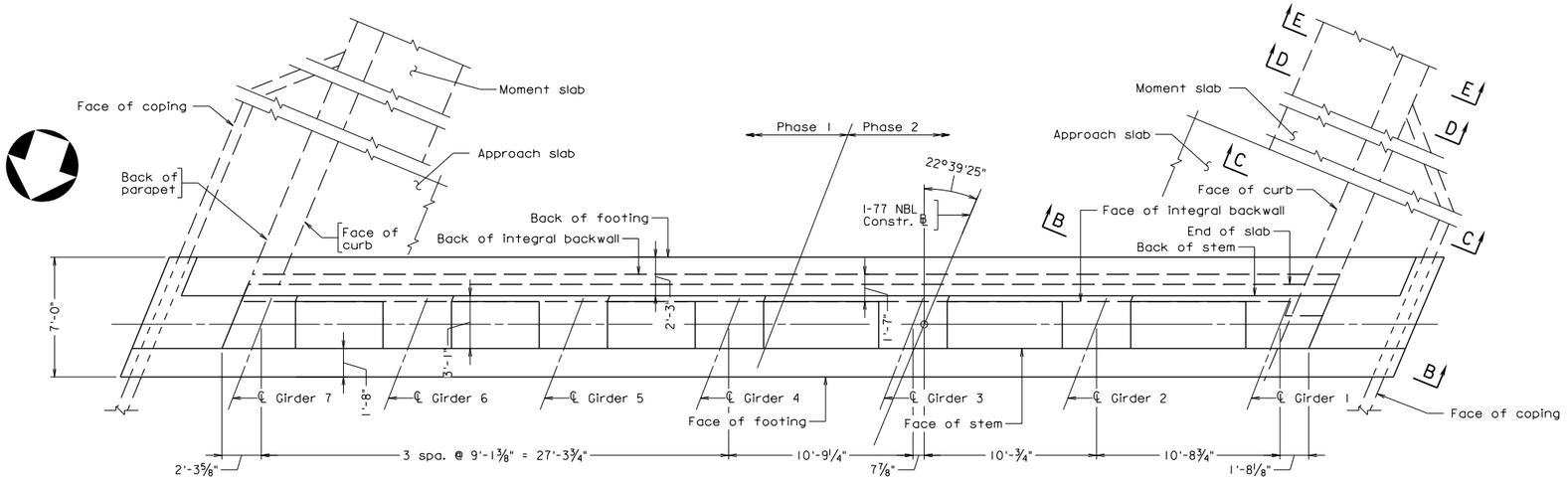
I-77 NBL OVER RTE. 606
SEQUENCE OF CONSTRUCTION II

Designed: ..... Drawn: ..... Checked:	Date	Plan No.	Sheet No.
	Jan. 2023	XXX-XX	3 of 5

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		77	0077-010-834, B644	4

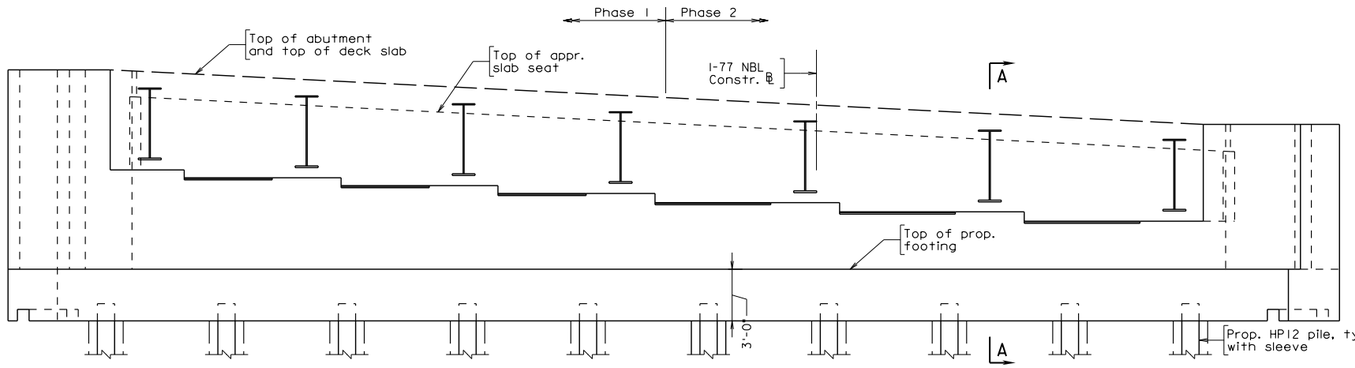
Notes:

Abutment A shown, Abutment B similar.

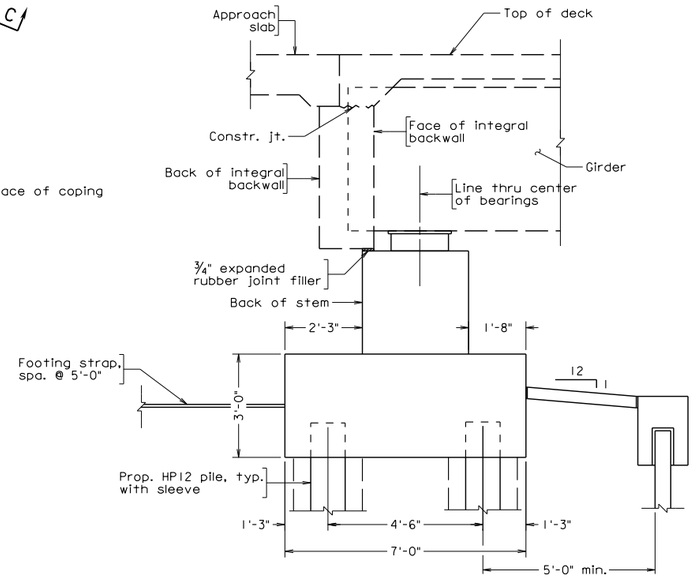


PLAN

Footing straps omitted for clarity

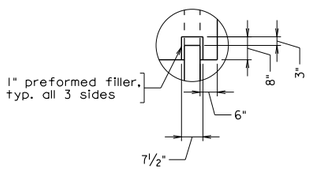


ELEVATION



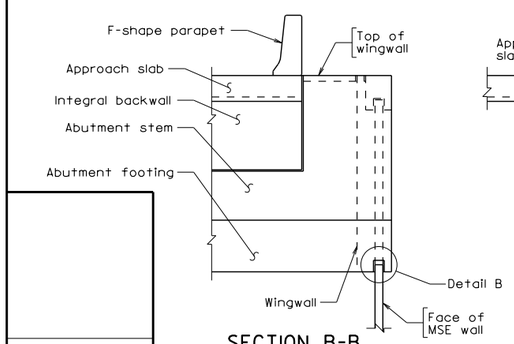
SECTION A-A

Scale: ½" = 1'-0"



DETAIL B

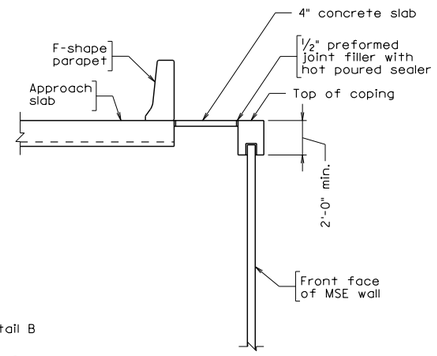
Scale: ½" = 1'-0"



SECTION B-B

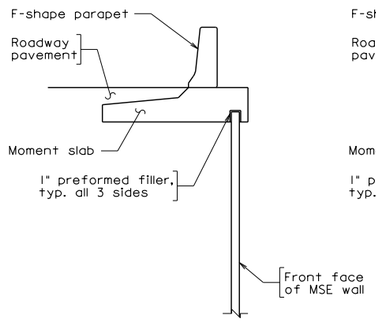
Scale: ¼" = 1'-0"

Piles omitted for clarity



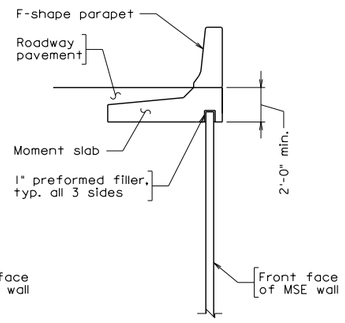
SECTION C-C

Scale: ¼" = 1'-0"



SECTION D-D

Scale: ¼" = 1'-0"



SECTION E-E

Scale: ¼" = 1'-0"

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

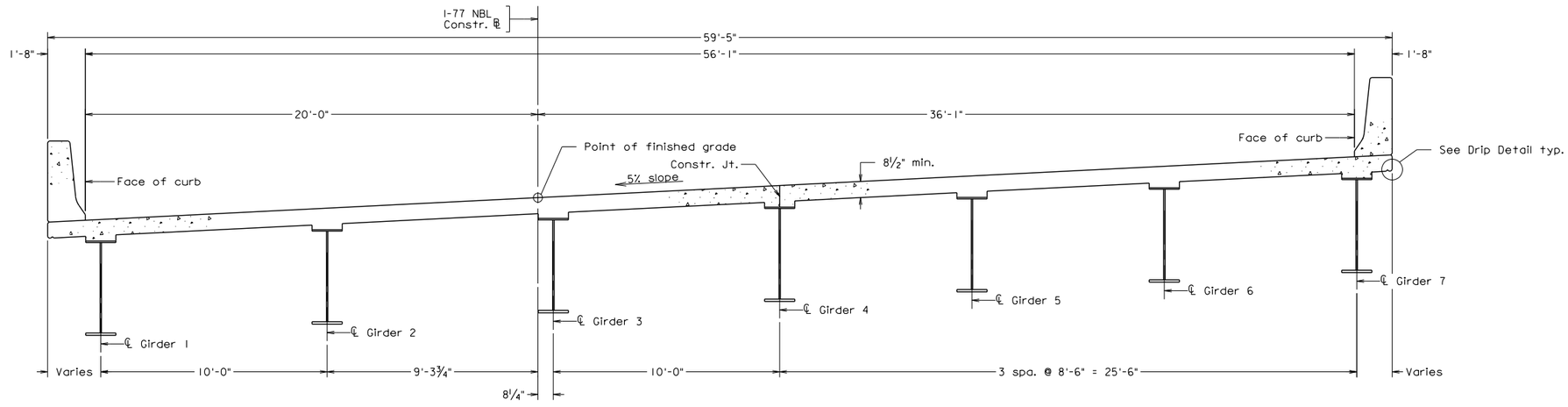
I-77 NBL OVER RTE. 606 ABUTMENT A PLAN AND ELEVATION

Designed: ..... / Drawn: ..... / Checked:	Date	Plan No.	Sheet No.
	Jan. 2023	XXX-XX	4 of 5

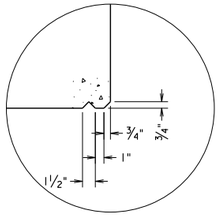
Scale: ¼" = 1'-0" unless otherwise noted

XXX-XX_004.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	——		77	0077-010-834, B644	5



TRANSVERSE SECTION



DRIP DETAIL
Scale: 1½" = 1'-0"

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION

XXX-XX_005.dgn

Scale: ⅜" = 1'-0" unless otherwise shown Scale: ¼" = 1'-0"

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

I-77 NBL OVER RTE. 606 TRANSVERSE SECTION

	Date	Plan No.	Sheet No.
Designed: ..... Drawn: ..... Checked:	Jan. 2023	XXX-XX	5 of 5

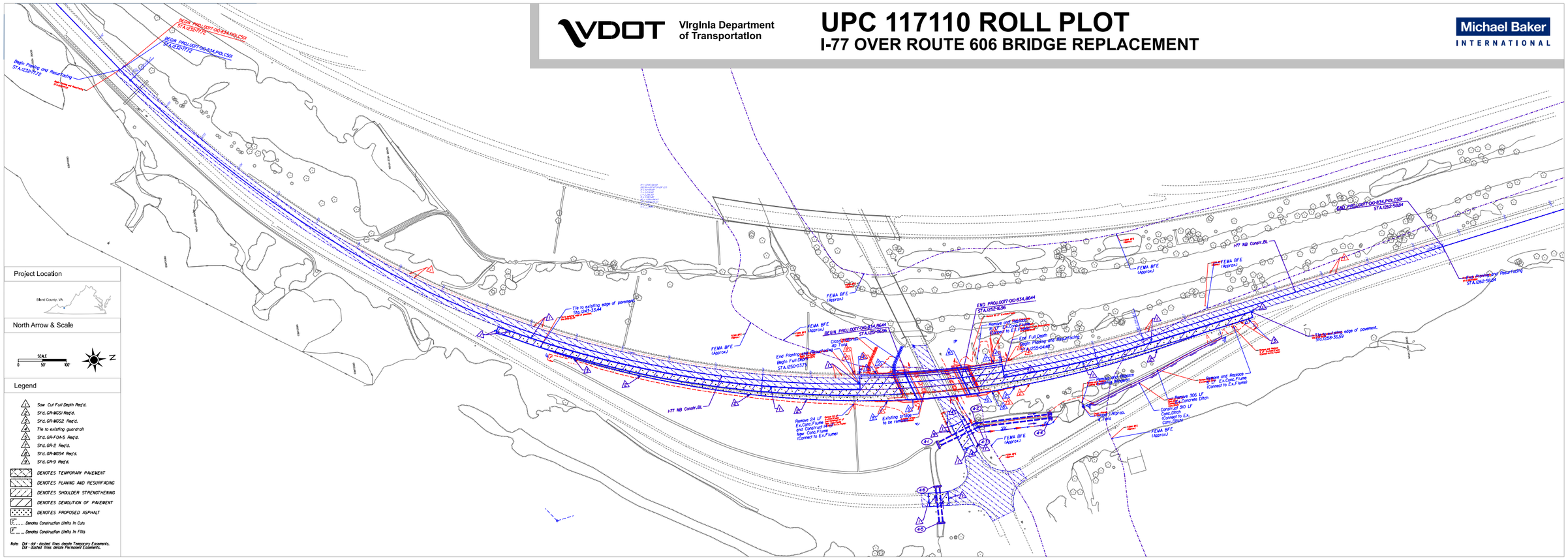
SCROLL FILES

VDOT Virginia Department of Transportation

UPC 117110 ROLL PLOT

I-77 OVER ROUTE 606 BRIDGE REPLACEMENT

Michael Baker INTERNATIONAL

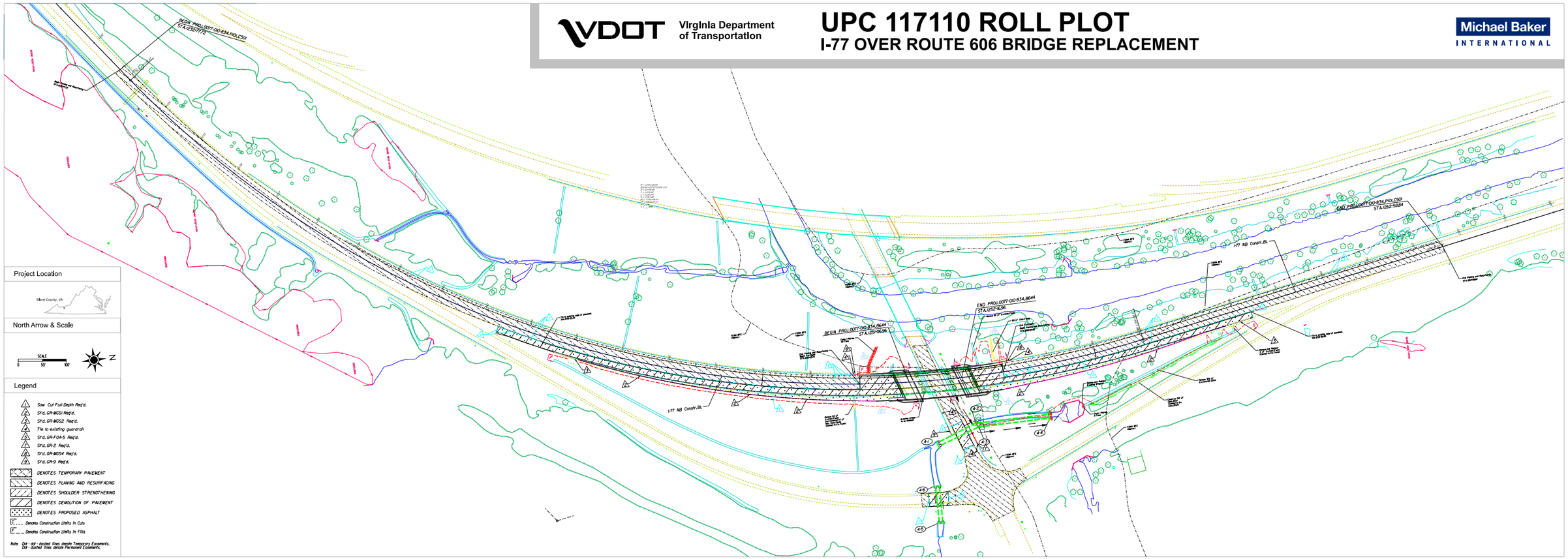


VDOT Virginia Department of Transportation

UPC 117110 ROLL PLOT

I-77 OVER ROUTE 606 BRIDGE REPLACEMENT

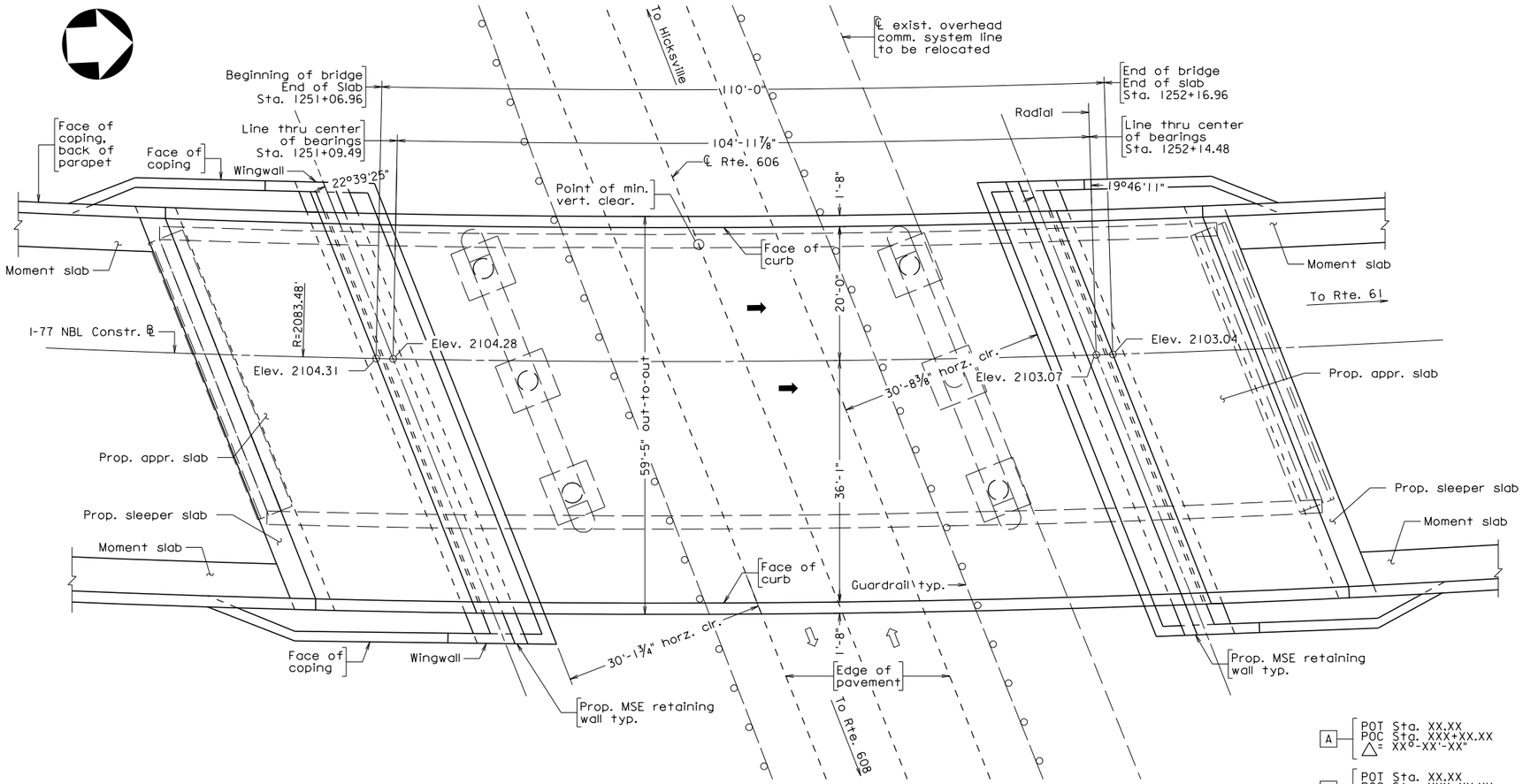
Michael Baker INTERNATIONAL



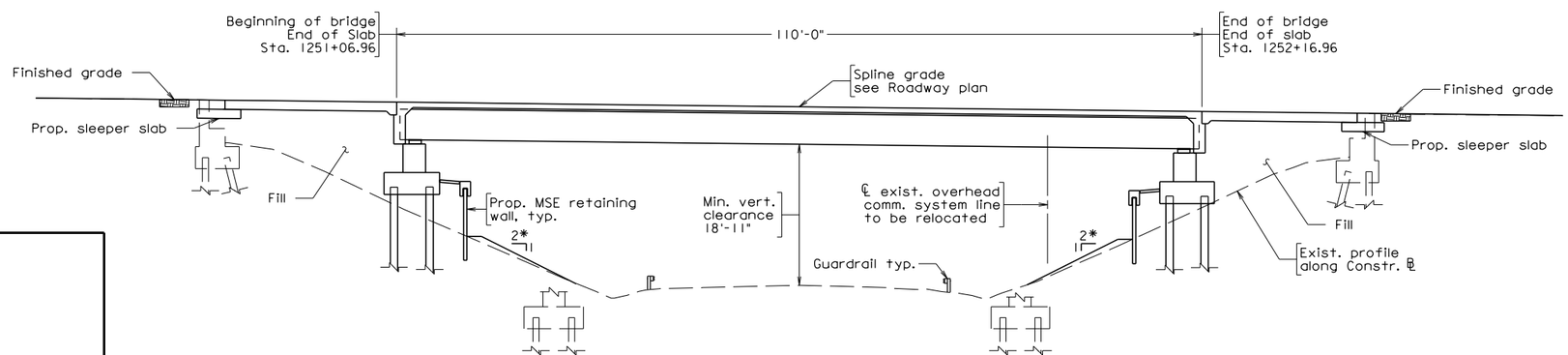
TRITON CONSTRUCTION, INC. OF VIRGINIA

PO BOX 1360 SAINT ALBANS, WV 25177 T: 304.759.2100

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—	NHFP-077-2(321)	77	0077-010-834, B644	1
Federal Structure No. 00000000031578			FHWA Construction and Scour Code:		X271-SN
Federal Stewardship and Oversight Code: FO					UPC No. 117110



PLAN



ABUTMENT A

ABUTMENT B

*Normal to MSE wall

DEVELOPED SECTION ALONG I-77 NBL CONST. ℄

Scale: 1" = 10'-0"

GENERAL NOTES:

The original approved sheet, including original signatures, is filed in the VDOT Central Office. Any misuse of electronic files, including scanned signatures is illegal. Violators will be prosecuted to the full extent of the applicable laws.

Width: 56'-1" face-to-face of curb.

Span layout: 110'-0" composite girder span.

Capacity: HL-93 loading.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

Design loading includes 20 psf allowance for construction tolerances and construction methods.

Design loading includes 15 psf allowance for future wearing surface.

Bridge No. of existing bridge is 2023. Plan No. is 185-15.

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

These plans depict the approximate location and layout of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements are preliminary, and not to be used for any type of construction or the acquisition of right of way.

VDOT

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE REPLACEMENT
I-77 NBL OVER RTE. 606
BLAND COUNTY
2.0 MI. S. OF I-77 NBL OVER RTE. 61
PROJ. 0077-010-834, B644

No.	Description	Date

REVISIONS

For Table of Revisions, see Sheet 2.

Recommended for Approval: _____ _____
State Structure and Bridge Engineer — Date

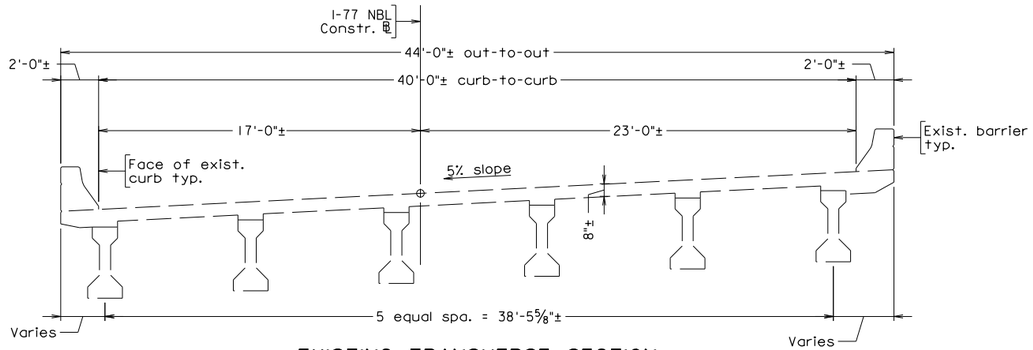
Approved: _____ _____
Chief Engineer — Date

XXX-XX

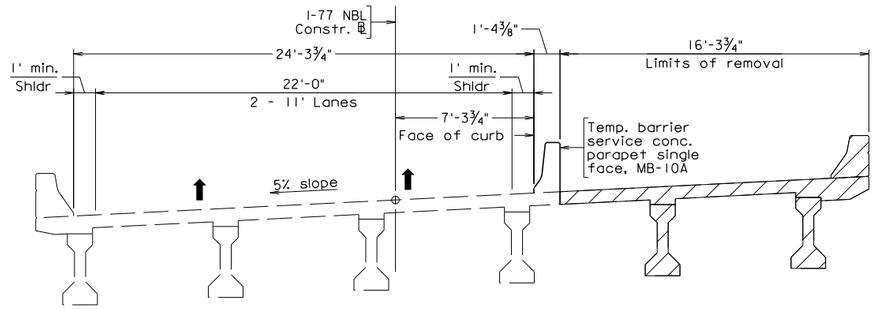
Date: January, 2023

XXX-XX_001.dgn

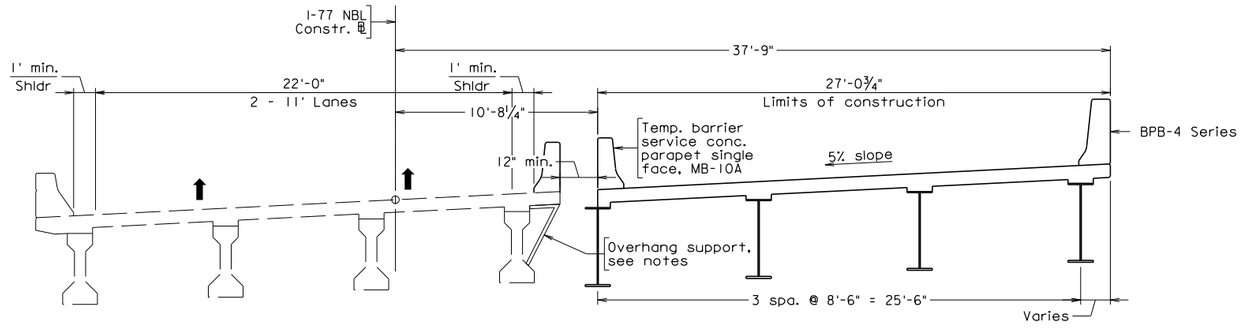
STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		77	0077-010-834, B644	2



EXISTING TRANSVERSE SECTION



PHASE I REMOVAL



PHASE I CONSTRUCTION

Notes:

Minimum of two 11' lanes and 1' shoulders shall be maintained.

Removal work shall conform to Section 412 of the specifications.

Existing superstructure is shown schematically and for information purpose only. The Contractor shall field verify the exact location and dimensions of the structure.

Contractor is responsible for maintaining stability of the piers throughout demolition and construction.

An overhang support may be required once the temporary barrier is added depending on the sequence of construction implemented by the Contractor.

Sequence of Construction Notes:

1. Install temporary traffic barrier and shift traffic as shown.
2. Remove portion of the existing structure.
3. Construct portion of the proposed structure.
4. Shift traffic to newly constructed portion of the bridge.
5. Remove the remaining portion of the existing structure.
6. Construct the remaining portion of the proposed structure.
7. Shift traffic lanes to final configuration and open bridge to traffic.

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Denotes limits of removal

XXX-XX.002.dgn

Scale: ¼" = 1'-0"

No.	Description	Date
	Revisions	

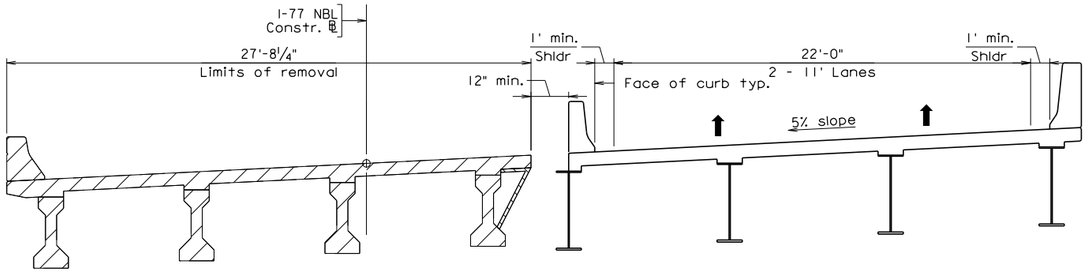
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

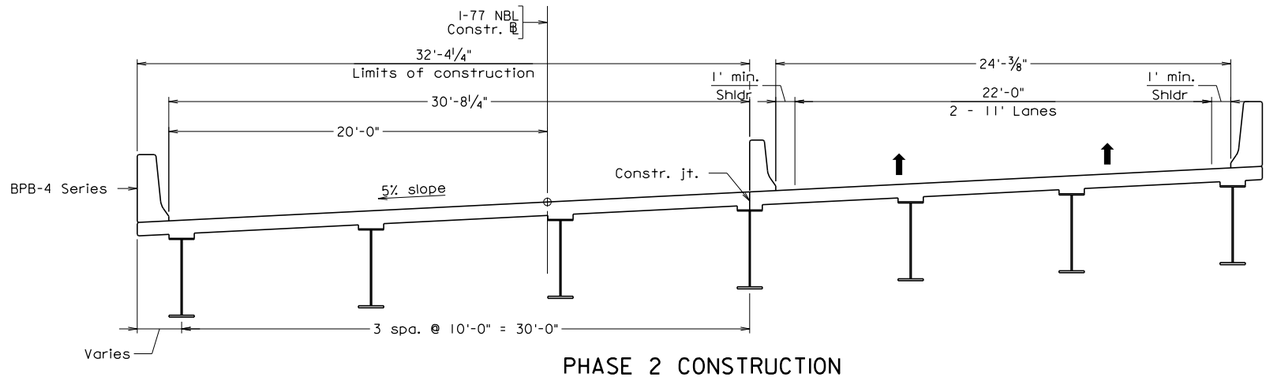
I-77 NBL OVER RTE. 606
SEQUENCE OF CONSTRUCTION I

Designed: ..... Drawn: ..... Checked:	Date	Plan No.	Sheet No.
	Jan. 2023	XXX-XX	2 of 5

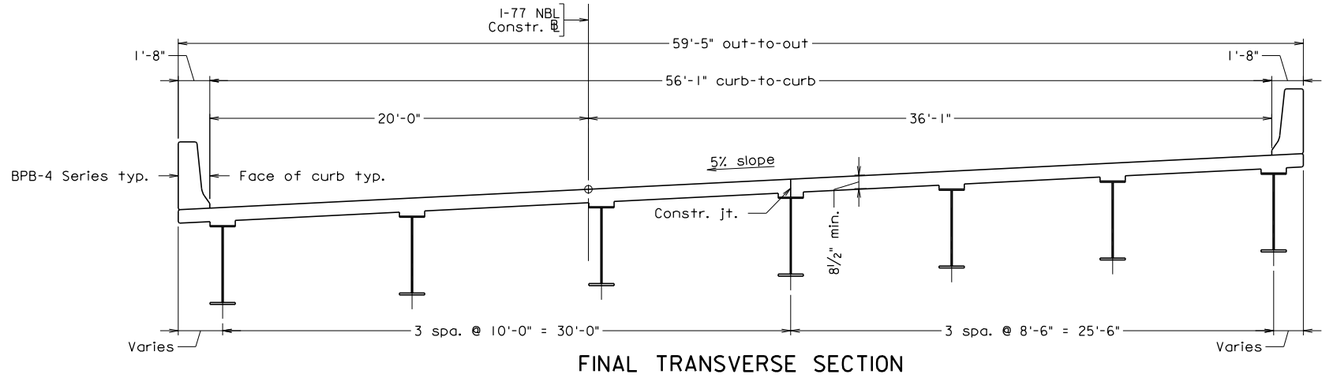
STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	——		77	0077-010-834, B644	3



PHASE 2 REMOVAL



PHASE 2 CONSTRUCTION



FINAL TRANSVERSE SECTION

Notes:

For Sequence of Construction notes, see sheet 2.

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Denotes limits of removal

XXX-XX_003.dgn

Scale: ¼" = 1'-0"

No.	Description	Date
	Revisions	

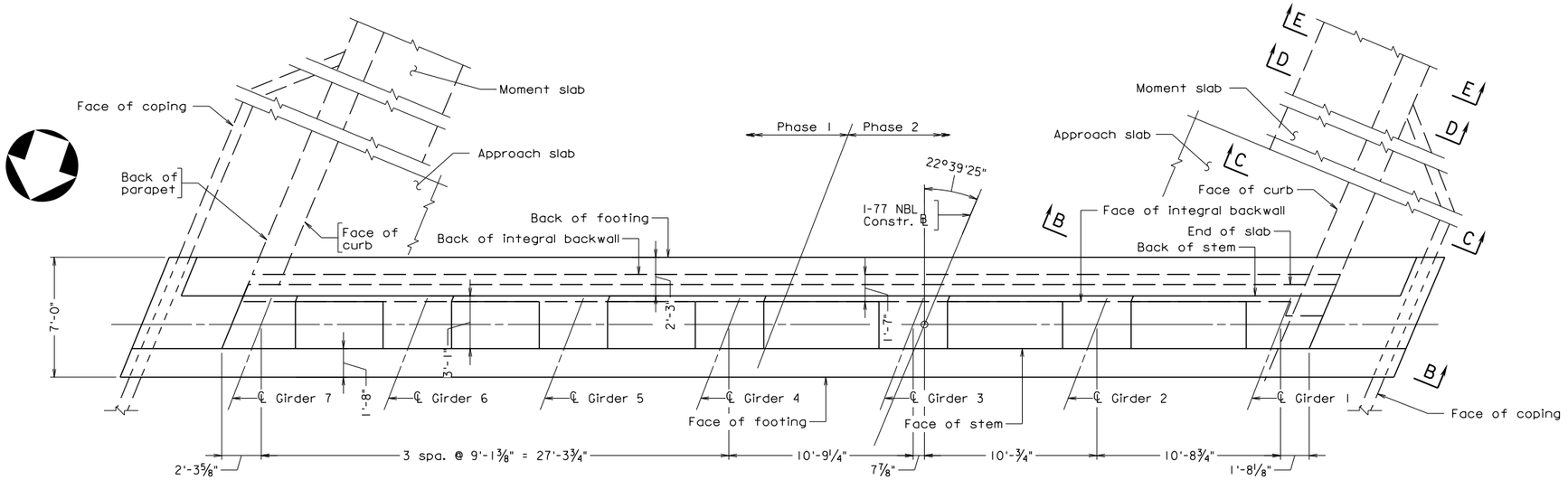
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

I-77 NBL OVER RTE. 606 SEQUENCE OF CONSTRUCTION II

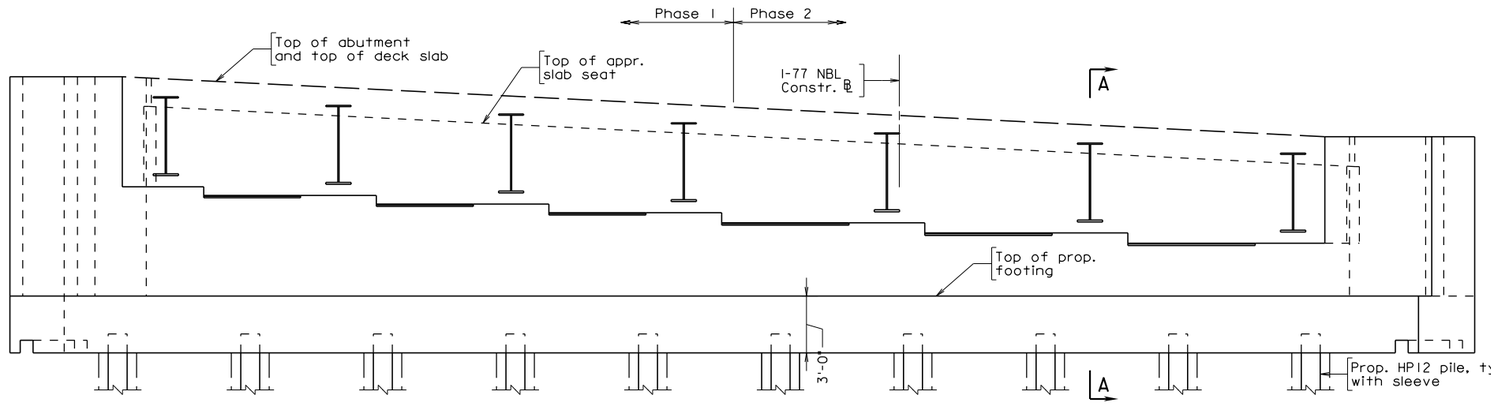
Designed: ..... / Drawn: ..... / Checked:	Date	Plan No.	Sheet No.
	Jan. 2023	XXX-XX	3 of 5

STATE	FEDERAL AID		STATE		SHEET
	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.	—		77	0077-010-834, B644	4

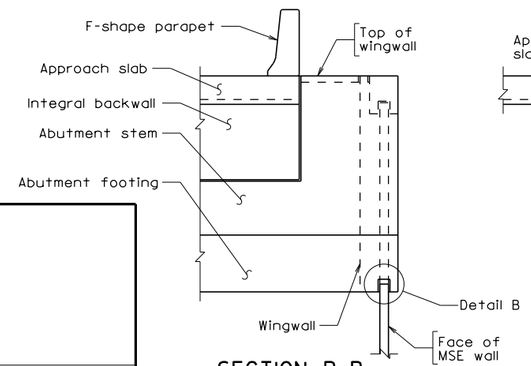


PLAN

Footing straps omitted for clarity



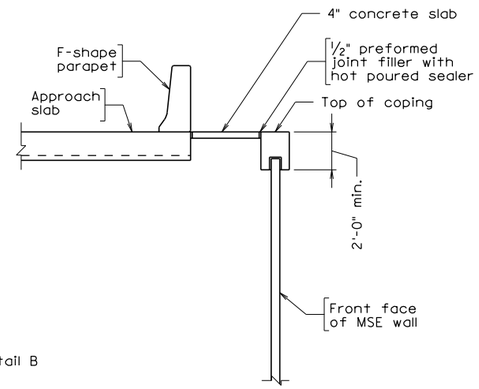
ELEVATION



SECTION B-B

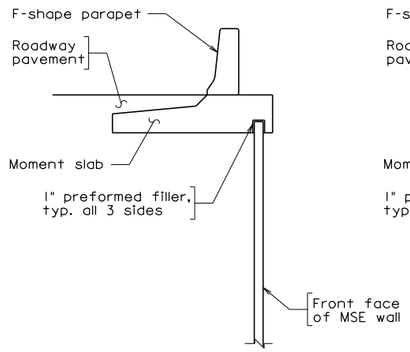
Scale: ¼" = 1'-0"

Piles omitted for clarity



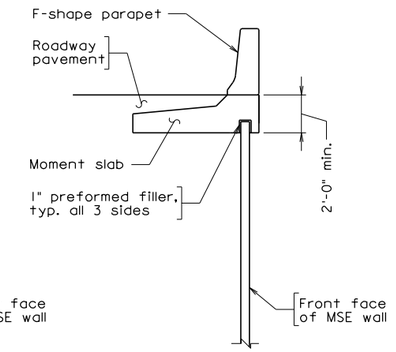
SECTION C-C

Scale: ¼" = 1'-0"



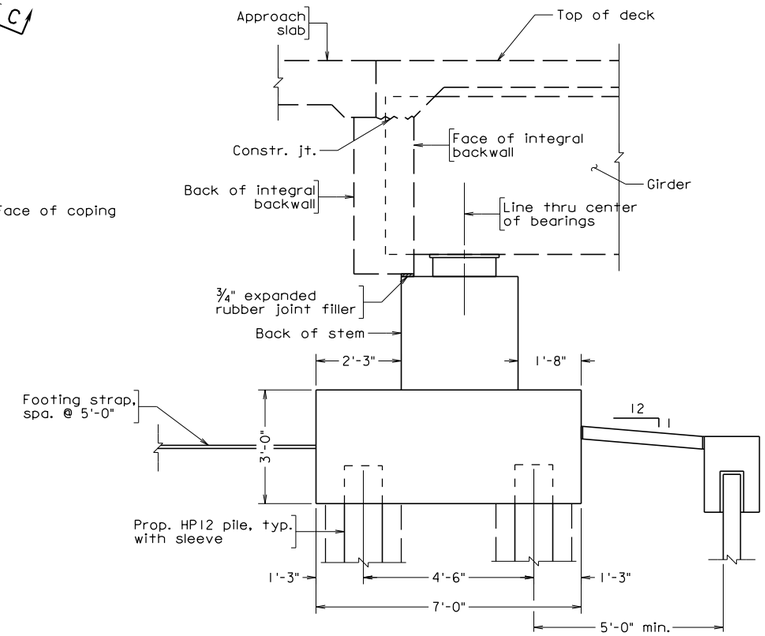
SECTION D-D

Scale: ¼" = 1'-0"



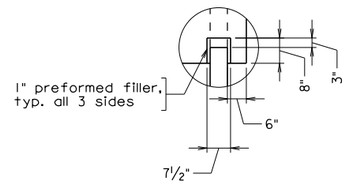
SECTION E-E

Scale: ¼" = 1'-0"



SECTION A-A

Scale: ½" = 1'-0"



DETAIL B

Scale: ½" = 1'-0"

Notes:

Abutment A shown, Abutment B similar.

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Scale: ¼" = 1'-0" unless otherwise noted

No.	Description	Date
Revisions		

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

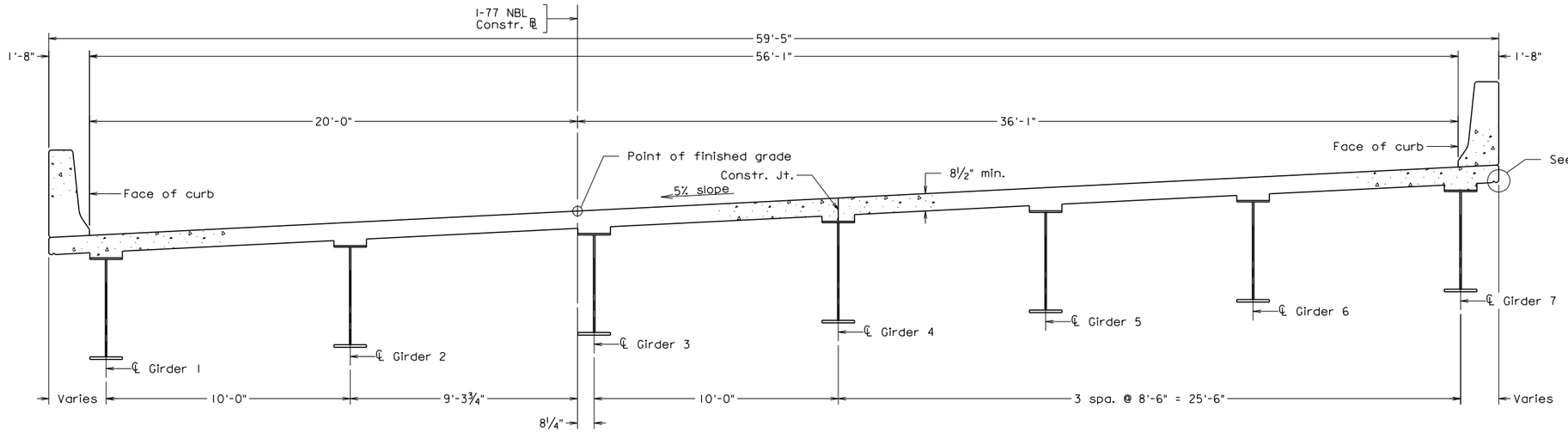
STRUCTURE AND BRIDGE DIVISION

I-77 NBL OVER RTE. 606 ABUTMENT A PLAN AND ELEVATION

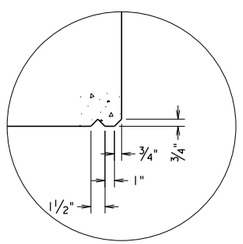
Designed:	Date	Plan No.	Sheet No.
Drawn:	Jan. 2023	XXX-XX	4 of 5
Checked:			

XXX-XX_004.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		77	0077-010-834, B644	5



TRANSVERSE SECTION



DRIP DETAIL
Scale: 1½" = 1'-0"

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION

XXX-XX_005.dgn

Scale: ⅜" = 1'-0" unless otherwise shown Scale: ¼" = 1'-0"

No.	Description	Date
Revisions		

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

I-77 NBL OVER RTE. 606
TRANSVERSE SECTION

	Date	Plan No.	Sheet No.
Designed:			
Drawn:			
Checked:	Jan. 2023	XXX-XX	5 of 5

dll7l100l.dgn
Plotted By: jstrange

LIMITED ACCESS HIGHWAY By Resolution of Highway Commission dated October 4, 1956

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES BYRNSIDE, L.S. (804) 330-3781 (H&B SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 - - - - - -

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OpenRoads Designer). UPC 117110

FHWA 534 Data IIIII

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	NHFP-077-2() (SEE TABULATION BELOW FOR SECTION NUMBERS)	77	(F0) 0077-010-834	1

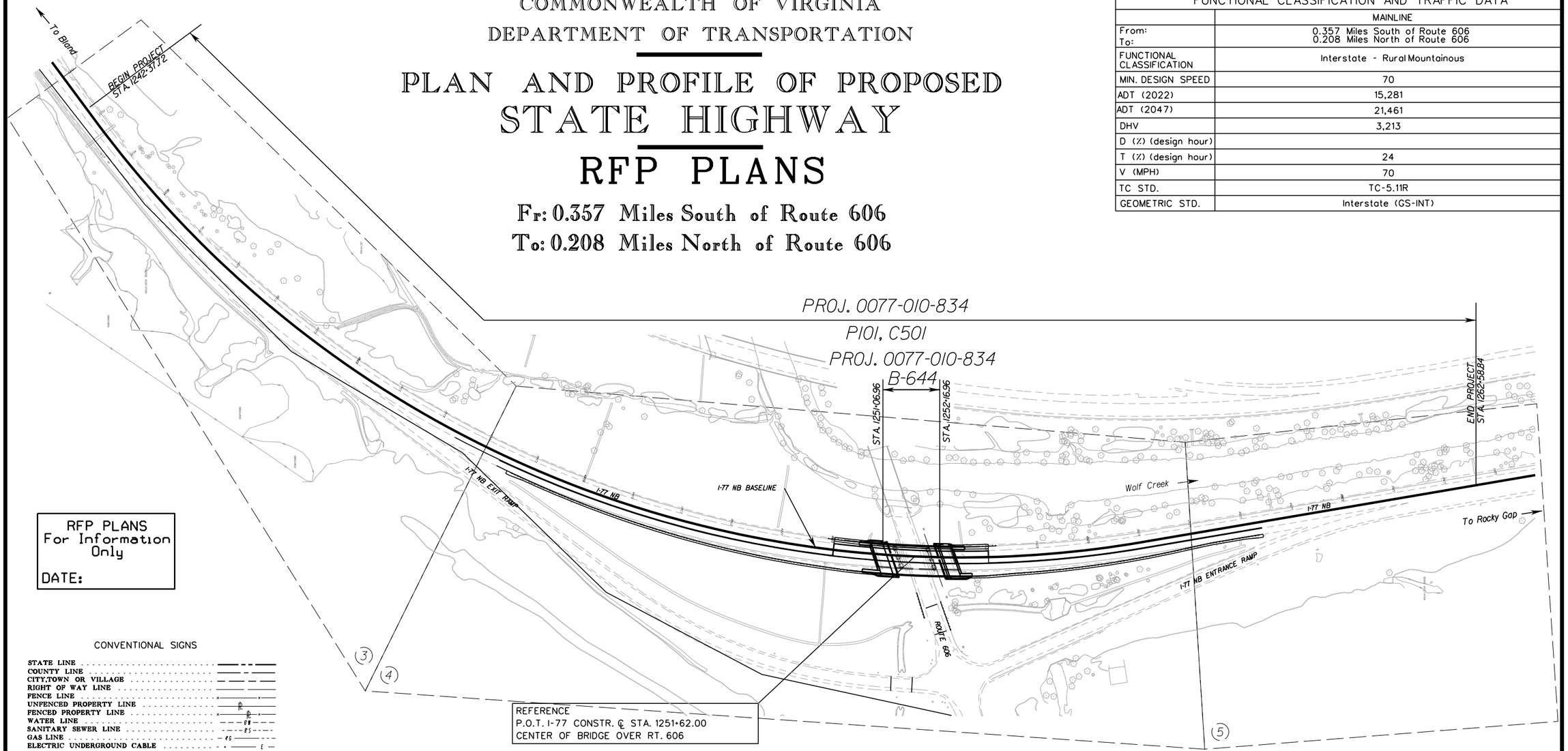
FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
	MAINLINE
From: To:	0.357 Miles South of Route 606 0.208 Miles North of Route 606
FUNCTIONAL CLASSIFICATION	Interstate - Rural Mountainous
MIN. DESIGN SPEED	70
ADT (2022)	15,281
ADT (2047)	21,461
DHV	3,213
D (%) (design hour)	
T (%) (design hour)	24
V (MPH)	70
TC STD.	TC-5.11R
GEOMETRIC STD.	Interstate (GS-INT)

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

RFP PLANS

Fr: 0.357 Miles South of Route 606
To: 0.208 Miles North of Route 606



RFP PLANS
For Information Only

DATE:

REFERENCE
P.O.T. I-77 CONSTR. ℄ STA. 1251+62.00
CENTER OF BRIDGE OVER RT. 606

CONVENTIONAL SIGNS

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

Population Bland County, 6,270 (2020 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
0077-010-834	P101	NFHP-077-2(321)		117110		2981.12	0.565	2871.12	0.544		Prel. Engr.	Fr: 0.357 Miles South of Route 606
												To: 0.208 Miles North of Route 606
	B644	NFHP-077-2(321)	X271	117110		110	0.021			185-15	Bridge	Bridge carrying I-77 NBL over Rt. 606
												(State Str. No. 2023)
	C501	NFHP-077-2(343)	1000	117110		2981.12	0.565	2871.12	0.544		Construction	Fr: 0.357 Miles South of Route 606
												To: 0.208 Miles North of Route 606

Project Lengths are based on I-77 Construction Centerline.

All construction is to be performed within the existing right of way.

SCALE
0 100 200

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES BYRNSIDE, L.S. (804) 330-3781/H&B SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _ _ _ _ _ _ .

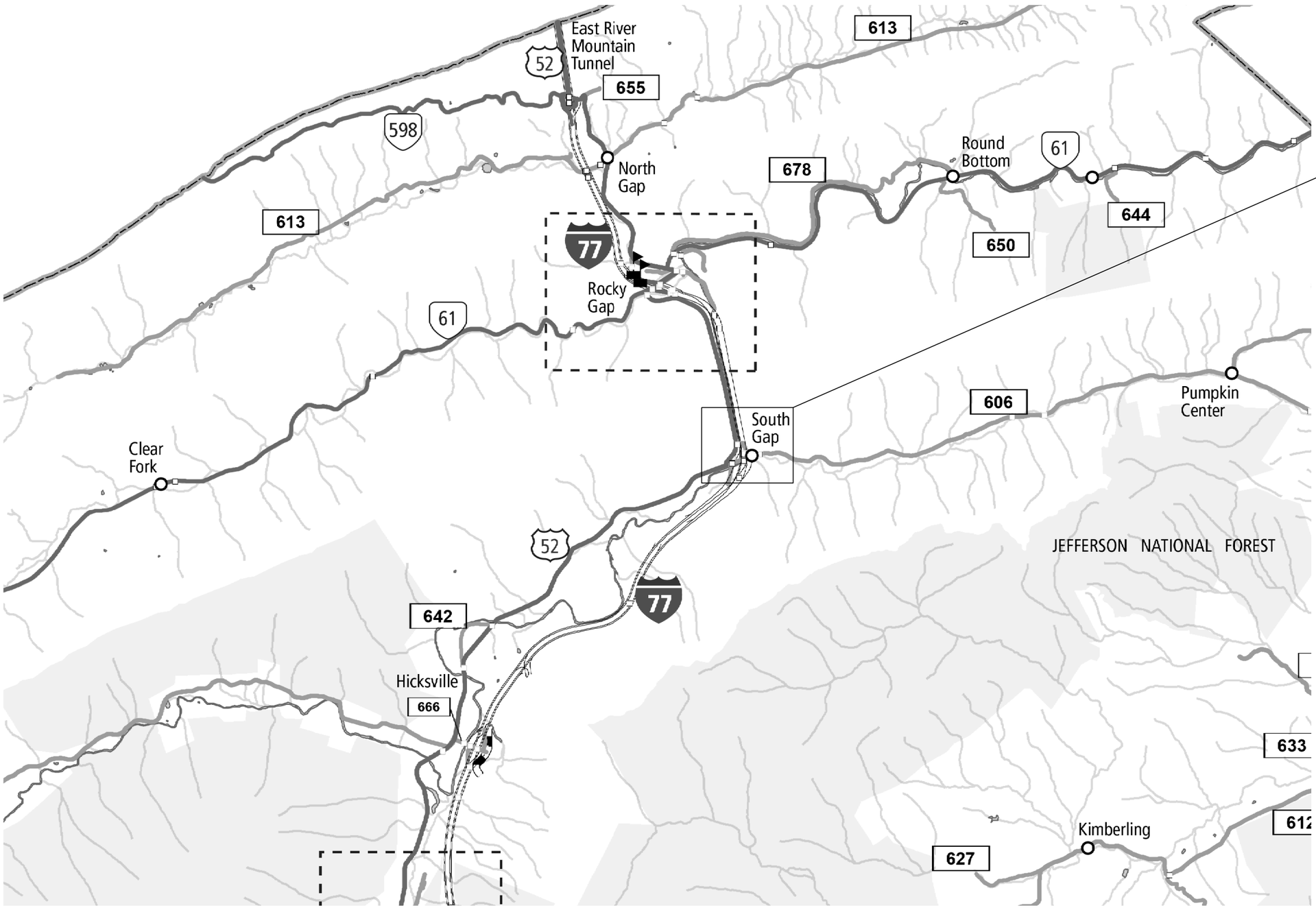
LOCATION MAP

BLAND COUNTY

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, C501	IA

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

BLAND COUNTY
POPULATION 6,270
2020 CENSUS



I-77 OVER ROUTE 606
PROJECT *0077-010-834, B644, P101, C501

RFP PLANS
For Information Only
DATE:

NOT TO SCALE	PROJECT 0077-010-834	SHEET NO. IA

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B SURVEYING AND MAPPING, LLC), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK 1/12/2022 _____.

INDEX OF SHEETS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, C501	IB

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

BRIDGE PLANS, B-644, PLAN NO. ___-__ (5 SHEETS)

RFP PLANS
For Information Only

DATE:

	PROJECT	SHEET NO.
	0077-010-834	IB

PROJECT MANAGER ROBERT_C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING_AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

DESIGNED BY <Designer Name, (000) 000-0000 (District)>

SURVEY CONTROL DATA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, C501	IE(1)

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

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 976 Date : 03-13-20

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10724403.269 ft.
North (Y) : 3608811.390 ft.
Ortho. Elevation (H) : 2174.85 ft.
Zone : North _ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude : 37° 12' 19.47371" N (5 Decimal Places)
Longitude : 81° 06' 17.44114" W (5 Decimal Places)
Geoid Separation (N) : -101.41
Ellipsoid Height (h) : 2073.44
Horizontal Datum : NAD83 Year : 2011
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 977 Is 54° 04' 01"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

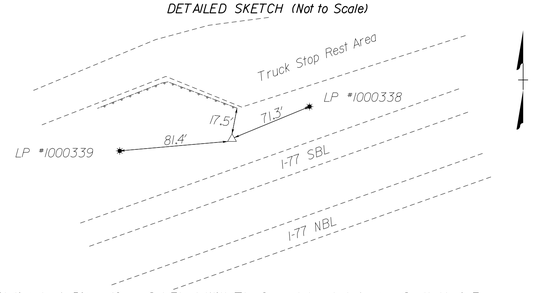
Project Information
Project Number : UPC 99569
Route : 77 City/County : Bland
Established By : Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :

* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

* Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. South 1.1 mi. From Overpass Of I-77 & Route 606. Station 81.4' East From Light Pole #1000339, 17.5' South From Guardrail 71.3' West From From Light Pole #1000338.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 977 Date : 03-13-20

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10724855.714 ft.
North (Y) : 3609139.305 ft.
Ortho. Elevation (H) : 2169.56 ft.
Zone : North _ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude : 37° 12' 22.83815" N (5 Decimal Places)
Longitude : 81° 06' 11.96220" W (5 Decimal Places)
Geoid Separation (N) : -101.42
Ellipsoid Height (h) : 2068.14
Horizontal Datum : NAD83 Year : 2011
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 976 Is 234° 04' 01"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

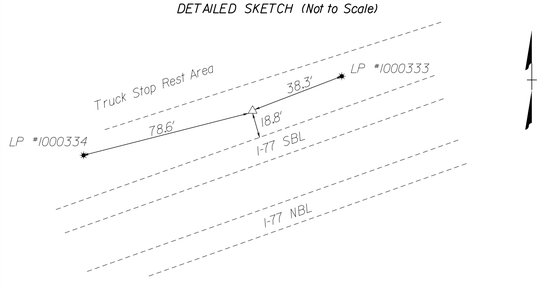
Project Information
Project Number : UPC 99569
Route : 77 City/County : Bland
Established By : Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :

* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

* Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. South 0.9 mi. From Overpass Of I-77 & Route 606. Station 78.6' East From Light Pole #1000339, 18.8' North From Edge Of Pavement, 38.3' West From Light Pole #1000338.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 978 Date : 03-13-20

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10727122.511 ft.
North (Y) : 3610928.684 ft.
Ortho. Elevation (H) : 2129.63 ft.
Zone : North _ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude : 37° 12' 41.41115" N (5 Decimal Places)
Longitude : 81° 05' 44.55988" W (5 Decimal Places)
Geoid Separation (N) : -101.45
Ellipsoid Height (h) : 2028.18
Horizontal Datum : NAD83 Year : 2011
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 979 Is 38° 55' 39"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

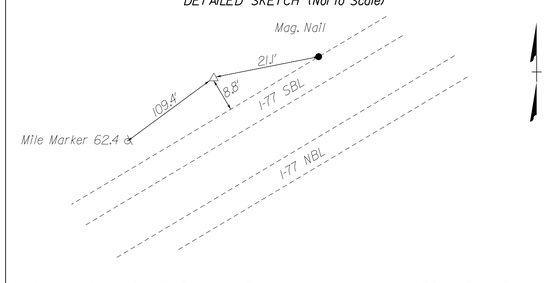
Project Information
Project Number : UPC 99569
Route : 77 City/County : Bland
Established By : Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :

* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

* Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. 0.35 mi. South From Overpass Of I-77 & Route 606. Station Is 109.4' Northeast From Mile Marker 62.4, 21.1' West From Mag. Nail Set, 8.8' Northest From Edge Of Pavement.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 979 Date : 03-13-20

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10727524.696 ft.
North (Y) : 3611426.627 ft.
Ortho. Elevation (H) : 2116.99 ft.
Zone : North _ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude : 37° 12' 46.17203" N (5 Decimal Places)
Longitude : 81° 05' 39.75897" W (5 Decimal Places)
Geoid Separation (N) : -101.45
Ellipsoid Height (h) : 2015.54
Horizontal Datum : NAD83 Year : 2011
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 978 Is 218° 55' 39"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

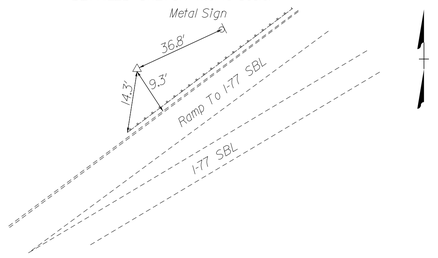
Project Information
Project Number : UPC 99569
Route : 77 City/County : Bland
Established By : Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :

* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

* Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. South 0.2 mi. From Overpass Of I-77 & Route 606. Station 14.3' North From End Of Guardrail, 36.8' West From A Metal Sign, 9.3' North From From Back Of Curb.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 980 Date : 03-13-20

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10727480.608 ft.
North (Y) : 3611979.393 ft.
Ortho. Elevation (H) : 2056.96 ft.
Zone : North _ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude : 37° 13' 50.92640" N (5 Decimal Places)
Longitude : 81° 05' 42.53045" W (5 Decimal Places)
Geoid Separation (N) : -101.49
Ellipsoid Height (h) : 1955.47
Horizontal Datum : NAD83 Year : 2011
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 981 Is 349° 14' 51"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

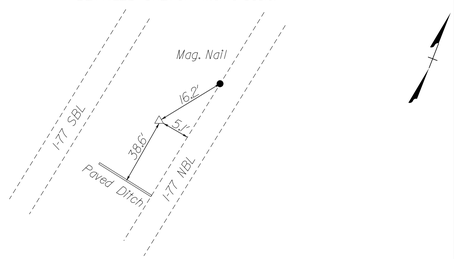
Project Information
Project Number : UPC 99569
Route : 77 City/County : Bland
Established By : Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :

* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

* Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. North 1.0 mi. From Overpass Of I-77 & Route 606. Station 38.6' North From Center Of Paved Ditch, 16.2' South From A Mag. Nail Set, 5.1 West From From Edge Of Pavement.

LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 981 Date : 03-13-20

VDOT Project Coordinates (2014)
East (X) : N/A ft.
North (Y) : N/A ft.
Elevation : N/A ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 10727394.874 ft.
North (Y) : 3618430.863 ft.
Ortho. Elevation (H) : 2052.72 ft.
Zone : North _ South X (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.0000000000 (9 Decimal Places)

Latitude : 37° 13' 55.36534" N (5 Decimal Places)
Longitude : 81° 05' 43.74367" W (5 Decimal Places)
Geoid Separation (N) : -101.49
Ellipsoid Height (h) : 1951.23
Horizontal Datum : NAD83 Year : 2011
Vertical Datum : NAVD88 Geoid : 12B
Azimuth to Station : 980 Is 169° 14' 51"
Control Based On: CORS Stations
DOBS,KYTL,NCSR,WVAT,WVLR,WVOH

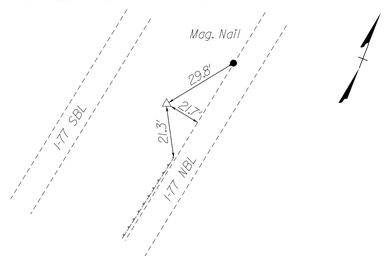
Project Information
Project Number : UPC 99569
Route : 77 City/County : Bland
Established By : Woolpert

To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula :

* Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left)

* Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet

DETAILED SKETCH (Not to Scale)



Station Is A Pin w/Cap Set Flush With The Ground Located Approx. North 1.1 mi. From Overpass Of I-77 & Route 606. Station 21.3' North From End Of Guardrail, 29.8' South From A Mag. Nail Set, 21.7' West From From Edge Of Pavement.

LD-200 (REV. 10/2014)

RFP PLANS
For Information Only

DATE:

	PROJECT	SHEET NO.
	0077-010-834	IE(1)

PROJECT MANAGER ROBERT_C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B. SURVEYING_AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL_BAKER_INTERNATIONAL (757) 463-8770 (VIRGINIA_BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

SURVEY CONTROL DATA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, C501	IE(2)

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

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #1

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
978		3,611,461.408	10,728,705.094	2,129.55	Mon.
979	N 38° 55' 39" E 640.17'	3,611,959.424	10,729,107.338	2,116.99	Mon.
1	N 15° 36' 18" E 494.09'	3,612,435.298	10,729,240.248	2,095.06	Rod & Cap
2	N 21° 06' 20" E 498.39'	3,612,900.256	10,729,419.712	2,083.30	Rod & Cap
3	N 66° 15' 07" E 514.68'	3,613,107.527	10,729,890.814	2,079.63	Rod & Cap
4	N 79° 06' 30" E 387.98'	3,613,180.837	10,730,271.808	2,076.17	Rod & Cap
5	N 28° 11' 22" W 386.95'	3,613,521.888	10,730,089.020	2,085.07	Rod & Cap
6	N 28° 49' 50" W 358.45'	3,613,835.904	10,729,916.170	2,094.59	Rod & Cap
7	N 7° 38' 39" W 402.52'	3,614,234.844	10,729,862.626	2,089.78	Rod & Cap
8	N 9° 19' 25" W 393.04'	3,614,622.687	10,729,798.951	2,085.60	Rod & Cap
9	N 11° 24' 55" W 434.69'	3,615,048.778	10,729,712.918	2,082.54	Rod & Cap
10	N 10° 07' 03" W 440.61'	3,615,482.540	10,729,635.517	2,079.22	Rod & Cap
11	N 9° 55' 25" W 484.78'	3,615,960.062	10,729,551.973	2,075.85	Rod & Cap
12	N 9° 12' 54" W 464.25'	3,616,418.324	10,729,477.628	2,072.14	Rod & Cap
13	N 9° 53' 50" W 542.95'	3,616,953.196	10,729,384.306	2,068.75	Rod & Cap
14	N 9° 12' 55" W 503.84'	3,617,450.533	10,729,303.618	2,064.54	Rod & Cap
15	N 10° 29' 49" W 513.08'	3,617,955.024	10,729,210.144	2,060.96	Rod & Cap
980	N 14° 44' 45" W 577.14'	3,618,513.157	10,729,063.244	2,056.96	Mon.
981	N 10° 45' 09" W 459.61'	3,618,964.694	10,728,977.497	2,052.72	Mon.

Survey Traverse Results:
Closure Precision 1 : 67,183

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #2

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
4		3,613,180.837	10,730,271.808	2,076.17	Rod & Cap
20	S 12°12'54" W 375.59'	3,612,813.754	10,730 192.342	2,084.09	Rod & Cap
21	S 27°48'28" W 340.62'	3,612,512.473	10,730,033.441	2,100.12	Rod & Cap
22	S 44°10'27" W 387.76'	3,612,234.363	10,729,763.235	2,115.39	Rod & Cap
23	S 30°36'35" W 384.59'	3,611,903.360	10,729,567.405	2,119.72	Rod & Cap
24	S 45°07'54" W 402.30'	3,611,619.546	10,729,282.284	2,125.37	Rod & Cap
25	S 52°02'05" W 387.98'	3,611,380.870	10,728,976.410	2,129.43	Rod & Cap
26	S 63°58'17" W 418.67'	3,611,197.147	10,730,089.020	2,085.07	Rod & Cap
978	N 21°38'59" E 284.32'	3,611,461.408	10,728,705.094	2,129.55	Mon.

Survey Traverse Results:
Closure Precision 1 : 67,183

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #3

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
976		3,609,343.802	10,725,985.451	2,174.85	Mon.
977	N 54°04'01" E 558.86'	3,609,671.765	10,726,437.963	2,169.56	Mon.
40	N 53°10'55" E 404.63'	3,609,914.247	10,726,761.883	2,166.18	Rod & Cap
41	N 51°05'43" E 423.13'	3,610,179.984	10,727,091.160	2,161.83	Rod & Cap
42	N 52°13'59" E 517.01'	3,610,496.625	10,727,499.859	2,153.38	Rod & Cap
43	N 52°38'53" E 525.48'	3,610,815.442	10,727,917.577	2,145.55	Rod & Cap
44	N 51°52'38" E 476.03	3,611,109.315	10,728,292.062	2,137.90	Rod & Cap
26	N 51°52'38" E 476.03	3,611,197.147	10,730,089.020	2,085.07	Rod & Cap

Survey Traverse Results:
Closure Precision 1 : 67,183

VDOT Project Coordinates : NAD 83 - U.S. Survey Feet - Traverse #4

Point ID	Bearing & Distance	Northing	Easting	Elevation	Description
22		3,612,234.363	10,729,763.235	2,115.39	Rod & Cap
30	N 21°35'21" E 412.47'	3,612,617.895	10,729,915.002	2,108.25	Rod & Cap
31	N 9°54'53" E 394.89'	3,613,006.886	10,729,982.995	2,105.23	Mag Nail
32	N 00°23'37" W 412.21'	3,613,419.086	10,729,980.164	2,100.06	Mag Nail
6	N 8°43'42" W 421.70'	3,613,835.904	10,729,916.170	2,094.59	Rod & Cap

Survey Traverse Results:
Closure Precision 1 : 67,183

RFP PLANS
For Information Only

DATE:

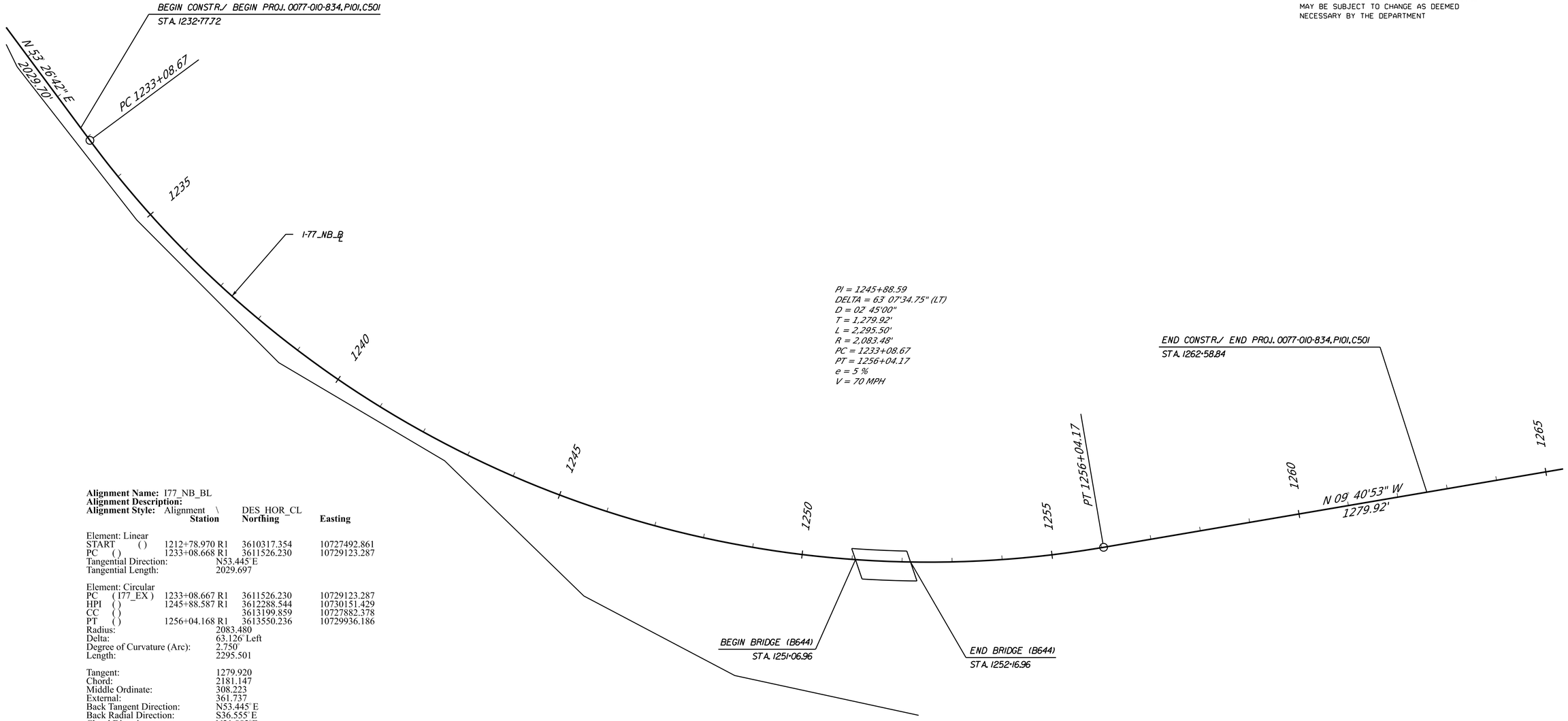
	PROJECT	SHEET NO.
	0077-010-834	IE(2)

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

CONSTRUCTION ALIGNMENT DATA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, C501	1F

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



PI = 1245+88.59
DELTA = 63° 07' 34.75" (LT)
D = 02° 45' 00"
T = 1,279.92'
L = 2,295.50'
R = 2,083.48'
PC = 1233+08.67
PT = 1256+04.17
e = 5 %
V = 70 MPH

Alignment Name: I77_NB_BL
Alignment Description:
Alignment Style: Alignment \ DES_HOR_CL

		Station	Northing	Easting
Element: Linear				
START	( )	1212+78.970 R1	3610317.354	10727492.861
PC	( )	1233+08.668 R1	3611526.230	10729123.287
Tangential Direction:		N53.445°E		
Tangential Length:		2029.697		
Element: Circular				
PC	(I77_EX)	1233+08.667 R1	3611526.230	10729123.287
HPI	( )	1245+88.587 R1	3612288.544	10730151.429
CC	( )		3613199.859	10727882.378
PT	( )	1256+04.168 R1	3613550.236	10729936.186
Radius:		2083.480		
Delta:		63.126° Left		
Degree of Curvature (Arc):		2.750°		
Length:		2295.501		
Tangent:		1279.920		
Chord:		2181.147		
Middle Ordinate:		308.223		
External:		361.737		
Back Tangent Direction:		N53.445°E		
Back Radial Direction:		S36.555°E		
Chord Direction:		N21.882°E		
Ahead Radial Direction:		N80.319°E		
Ahead Tangent Direction:		N9.681°W		
Element: Linear				
PT	( )	1256+04.168 R1	3613550.236	10729936.186
END	( )	1268+84.087 R1	3614811.926	10729720.943
Tangential Direction:		N9.681°W		
Tangential Length:		1279.919		

RFP PLANS
For Information Only

DATE:

SCALE	PROJECT	SHEET NO.
0 100' 200'	0077-010-834	1F

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, C501	2

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

GENERAL NOTES

DRAINAGE

D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.

D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.

D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.

D-8 Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT Road and Bridge Specifications.

GRADING

G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.

G-2 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.

G-6 The borrow material for this project shall be a minimum CBR_____ or as approved by the Materials Engineer.

PAVEMENT

P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

EROSION AND SEDIMENT CONTROL (ESC)

E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.

E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

E-3 The following symbols are used to depict Erosion and Sediment Control items in the plan assembly:

EC-2, Ty. 1 / EC-2, Ty. 2 / EC-2, Ty. 3 / EC-2, Ty. 4	Denotes Rolled Erosion Control Product, Temporary, St'd. EC-2 Type 1, 2, 3 or 4
EC-3, Ty. 1 / EC-3, Ty. 2 / EC-3, Ty. 3	Denotes Rolled Erosion Control Product, Permanent, St'd. EC-3 Type 1, 2 or 3
TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
TCD	Denotes Temporary Check Dam, St'd EC-16
TDC	Denotes Temporary Diversion Channel, St'd EC-12
DD	Denotes Temporary Diversion Dike, St'd EC-9
TC-I	Denotes Turbidity Curtain, Type - Impervious
TC-P	Denotes Turbidity Curtain, Type - Pervious
RCD-1	Denotes Rock Check Dam, Type I; St'd EC-4
RCD-2	Denotes Rock Check Dam, Type II; St'd EC-4
IP-A	Denotes Inlet Protection, Type A; St'd EC-6
IP-B	Denotes Inlet Protection, Type B; St'd EC-6
TSI	Denotes Slope Interrupter; St'd EC-15
CD	Denotes Cofferdam
	Denotes Limits of Disturbance

E-4 Permanent vegetation shall be established on all denuded areas not otherwise stabilized with non-erodible materials. See the Roadside Development sheet for details on permanent vegetation establishment.

INCIDENTALS

I-19 The following outside sources, under contract with VDOT, have provided information on this project.

Hydraulic Design	-	Michael Baker International
Roadway Design	-	Michael Baker International
Utility Design	-	" " " "
Utility Designation	-	HDR Engineering, Inc.
Utility Location	-	HDR Engineering, Inc.
Survey	-	H&B Surveying and Mapping, LLC.
Bridge Design	-	Michael Baker International
Traffic Design	-	" " " "
Landscape Design	-	" " " "

If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.

Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, Microstation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The Microstation files will only match the scanned files if all required levels are turned on. A Microstation Software license is required to be able to read these files.

RFP PLANS
For Information Only

DATE:

NOT TO SCALE	PROJECT 0077-010-834	SHEET NO. 2

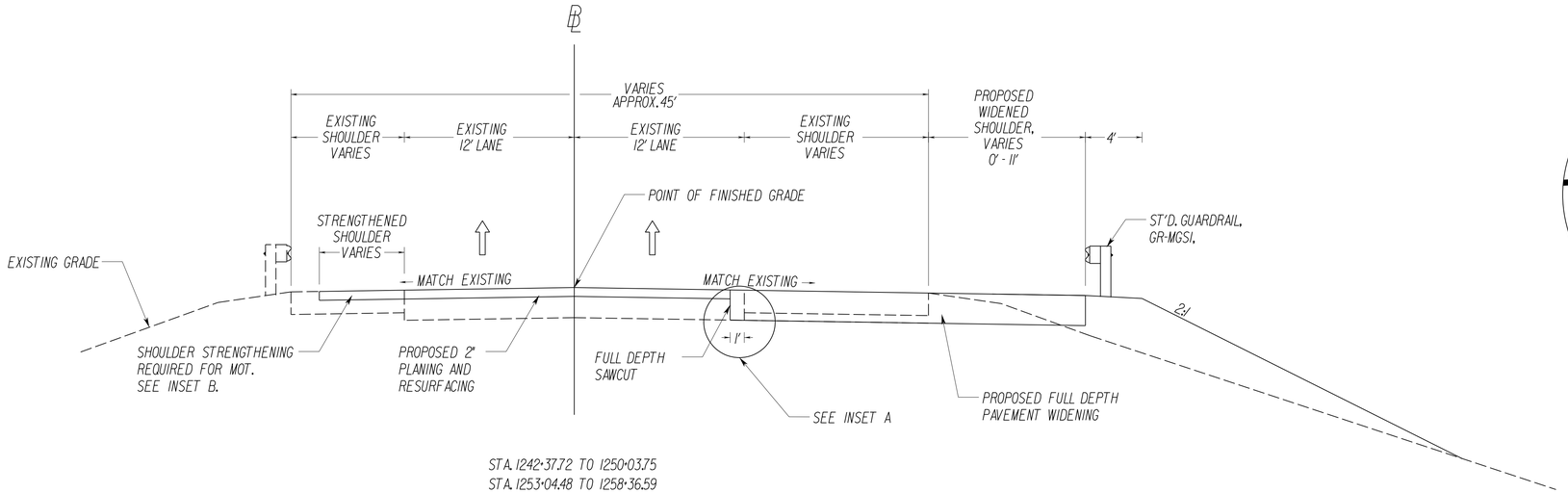
PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK 1/12/2022 _____.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, C501	2A

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

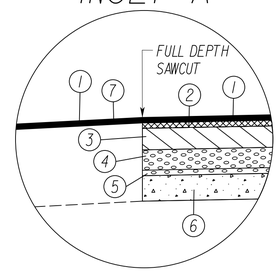
TYPICAL SECTIONS

I-77 NB

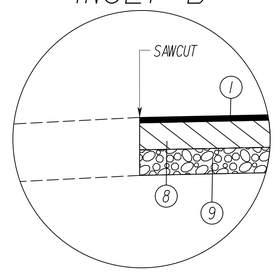


STA. 1242+37.72 TO 1250+03.75
STA. 1253+04.48 TO 1258+36.59

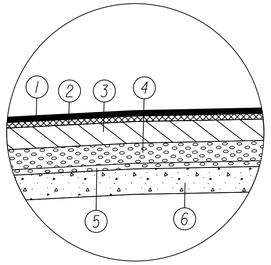
INSET A



INSET B



INSET C



I-77 NB

STA. 1250+03.75 TO 1251+06.96 (BRIDGE)
STA. (BRIDGE) 1252+16.96 TO 1253+04.48

LEGEND

1. SURFACE - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE SM-12.5E ESTIMATED AT 220 LB/YD²
2. 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE IM-19.0E ESTIMATED AT 230 LB/YD²
3. BASE - 10" ASPHALT CONCRETE, TYPE BM-25.0A
4. SUBBASE - 8" AGGREGATE BASE MATERIAL, TYPE I, SIZE 21B, EXTENDED TO THE FACE OF THE STANDARD UD-4 EDGEDRAIN OR DAYLIGHT
5. SUBBASE - 2" AGGREGATE BASE MATERIAL, TYPE I, SIZE 21B - LEVELING COURSE, EXTENDED TO THE FACE OF THE STANDARD UD-4 EDGEDRAIN OR DAYLIGHT
6. SUBBASE - 12" OPEN GRADED AGGREGATE MATERIAL, TYPE I, EXTENDED TO THE FACE OF THE STANDARD UD-4 EDGEDRAIN OR DAYLIGHT
7. 2" FLEXIBLE PAVEMENT PLANING
8. BASE - 9" ASPHALT CONCRETE, TYPE BM-25.0A (PLACED IN 4-1/2" LIFTS)
9. EXISTING AGGREGATE BASE BELOW 11"

NOTES:

1. PAVEMENT WIDENING SHALL BE IN ACCORDANCE WITH VDOT STANDARD WP-2 OR PROVIDED PAVEMENT SECTION, WHICHEVER IS GREATER.
2. IF UD-4 IS ENCOUNTERED DURING FULL DEPTH SAWCUT OF EXISTING PAVEMENT, IT SHALL BE RELOCATED BELOW THE WIDENING FULL DEPTH PAVEMENT.
3. SURFACE COURSE FOR PLANING AND RESURFACING OF THE EXISTING PAVEMENT SHALL BE PLACED CONCURRENTLY.
4. EXISTING GUARDRAIL BEYOND LIMITS OF FIXED OBJECT ATTACHMENT TO REMAIN.
5. EXISTING PAVEMENT THICKNESS SHOWN FOR REFERENCE ONLY.

RFP PLANS
For Information Only
DATE:

NOT TO SCALE	PROJECT 0077-010-834	SHEET NO. 2A

1/13/2023
1:50:00 PM

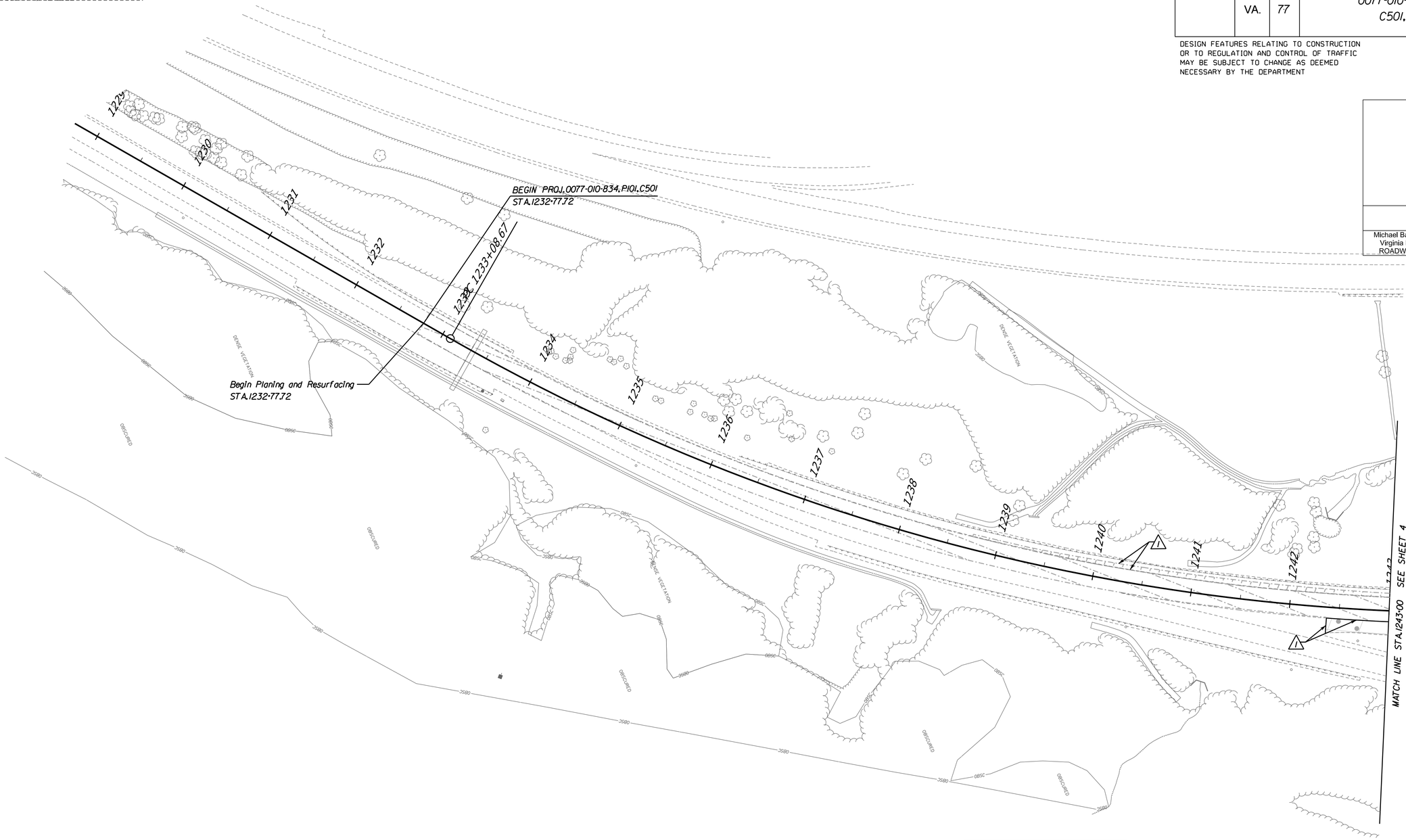
dll7111003.dgn
Plotted By: jstrange

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	3

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER



1 Saw Cut Full Depth Req'd.
2 St'd. GR-MGS1 Req'd.
3 St'd. GR-MGS2 Req'd.
4 Tie to existing guardrail
5 St'd. GR-FOA-5 Req'd.
7 St'd. GR-2 Req'd.
8 St'd. GR-MGS4 Req'd.
9 St'd. GR-9 Req'd.

DENOTES TEMPORARY PAVEMENT
DENOTES PLANING AND RESURFACING
DENOTES SHOULDER STRENGTHENING
DENOTES DEMOLITION OF PAVEMENT
DENOTES PROPOSED ASPHALT

C _ _ _ _ Denotes Construction Limits In Cuts
F _ _ _ Denotes Construction Limits In Fills

Note: Dot - dot - dashed lines denote Temporary Easements.
Dot - dashed lines denote Permanent Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Mainline Profile	3A

RFP PLANS
For Information Only
DATE:

SCALE	PROJECT	SHEET NO.
0 50' 100'	0077-010-834	3

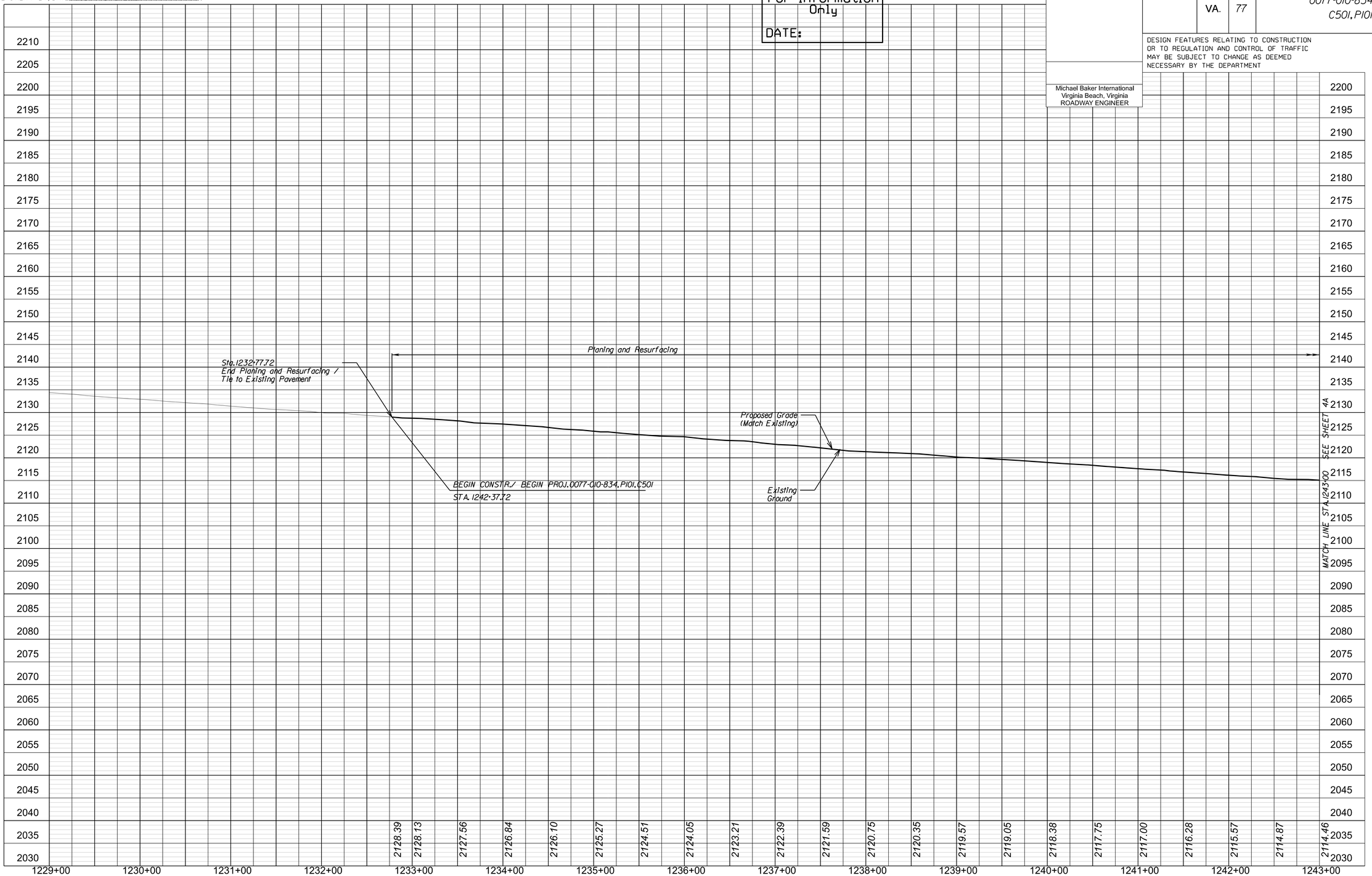
PROJECT MANAGER ROBERT_C_LEONARD,P.E. (276)696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE,L.S.(804)_330-3781(H&B. SURVEYING_AND MAPPING,LLC),1/10/2022
DESIGN BY MICHAEL_BAKER_INTERNATIONAL (757)_463-8770_(VIRGINIA_BEACH,VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK,1/12/2022

RFP PLANS
For Information Only
DATE:

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	3A

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER



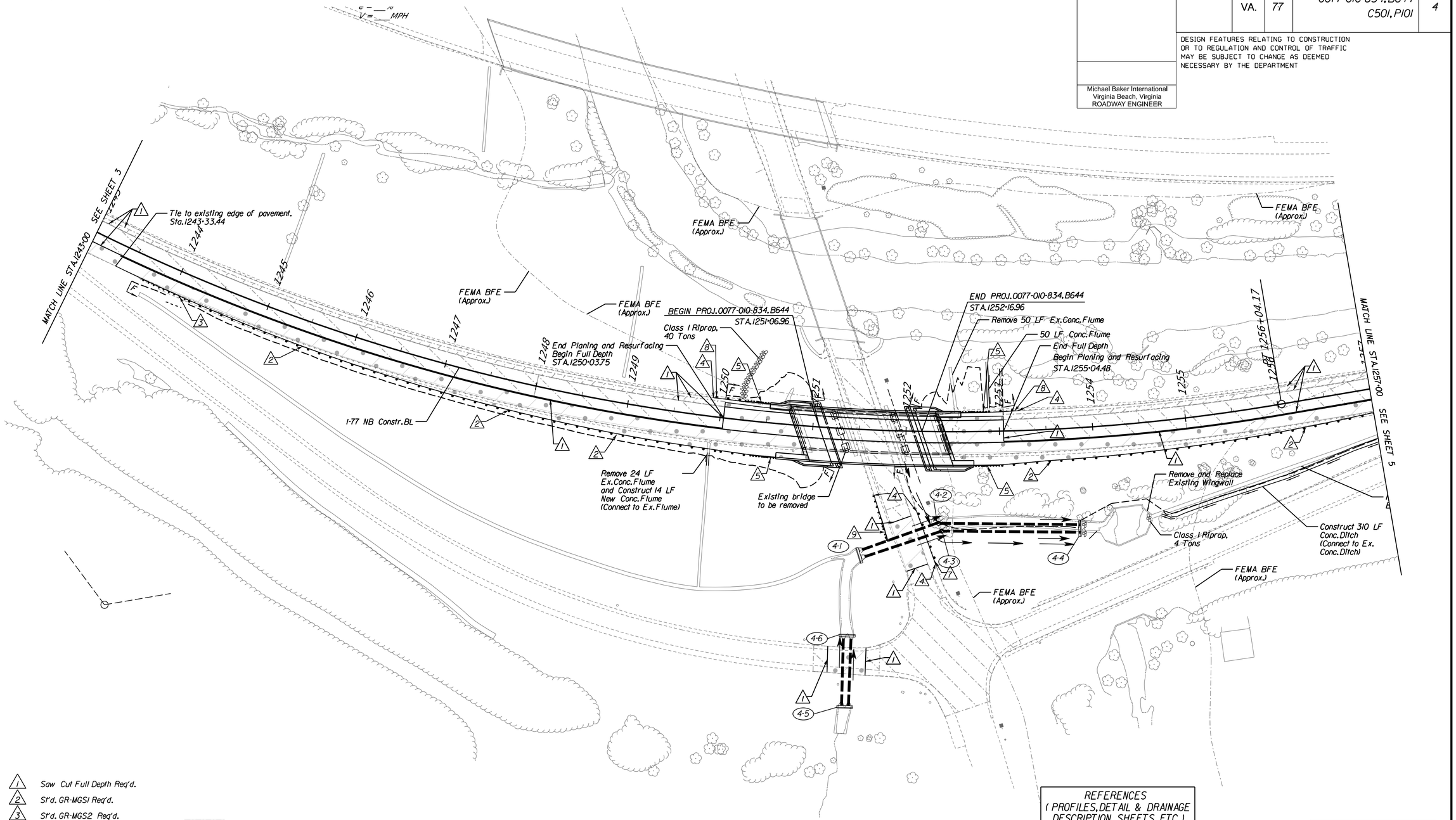
PROJECT	SHEET NO.
0077-010-834	3A

PROJECT MANAGER ROBERT_C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, B644 C501, P101	4

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER



1 Saw Cut Full Depth Req'd.
2 Std. GR-MGS1 Req'd.
3 Std. GR-MGS2 Req'd.
4 Tie to existing guardrail
5 Std. GR-FOA-5 Req'd.
7 Std. GR-2 Req'd.
8 Std. GR-MGS4 Req'd.
9 Std. GR-9 Req'd.

DENOTES TEMPORARY PAVEMENT
DENOTES PLANING AND RESURFACING
DENOTES SHOULDER STRENGTHENING
DENOTES DEMOLITION OF PAVEMENT
DENOTES PROPOSED ASPHALT

C _ _ _ Denotes Construction Limits In Cuts
F _ _ _ Denotes Construction Limits In Fills

Note: Dot - dot - dashed lines denote Temporary Easements.
Dot - dashed lines denote Permanent Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Mainline Profile	4A

RFP PLANS
For Information Only
DATE:

SCALE	PROJECT	SHEET NO.
0 50' 100'	0077-010-834	4

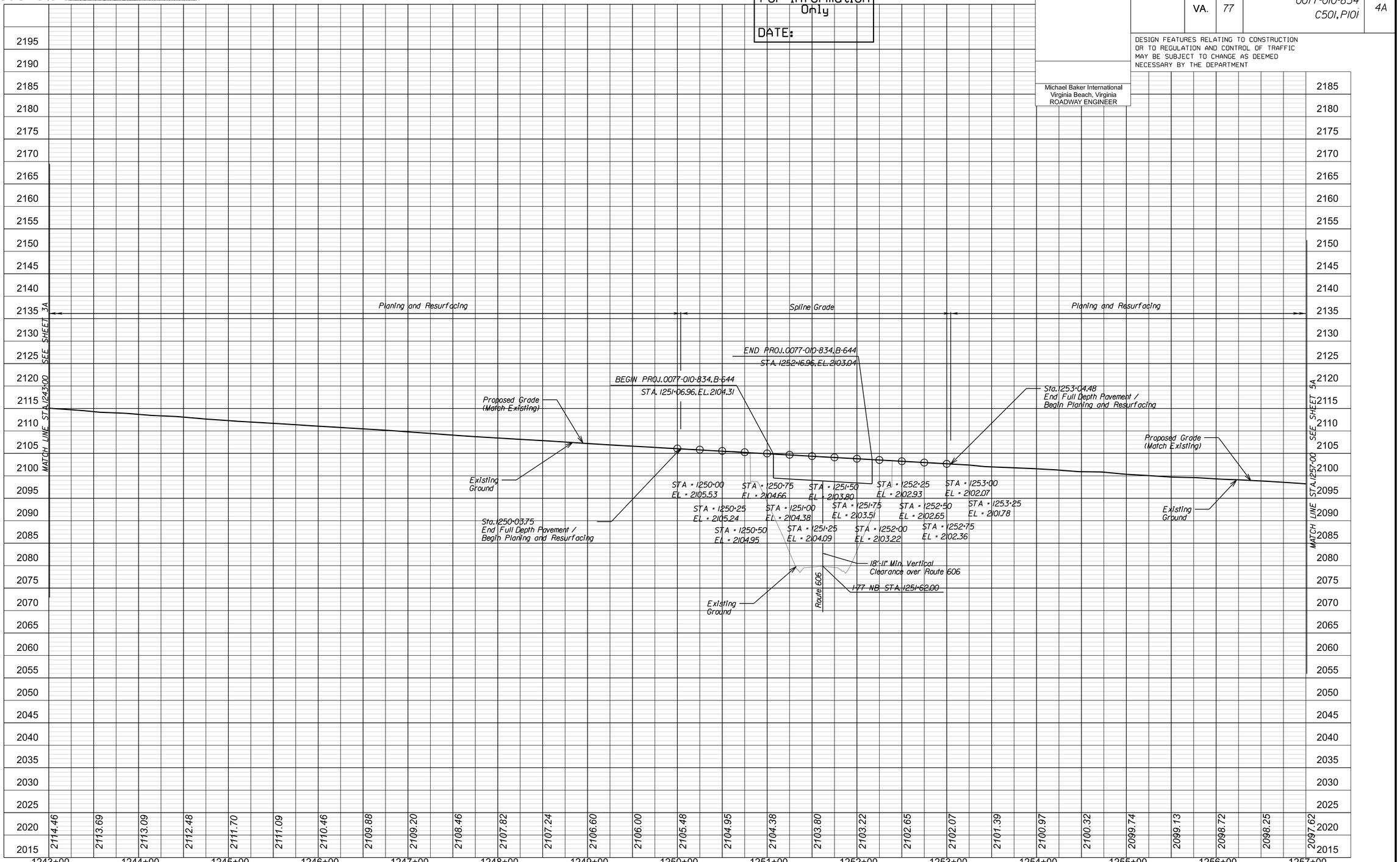
PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK 1/12/2022

RFP PLANS
For Information Only
DATE:

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	4A

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER



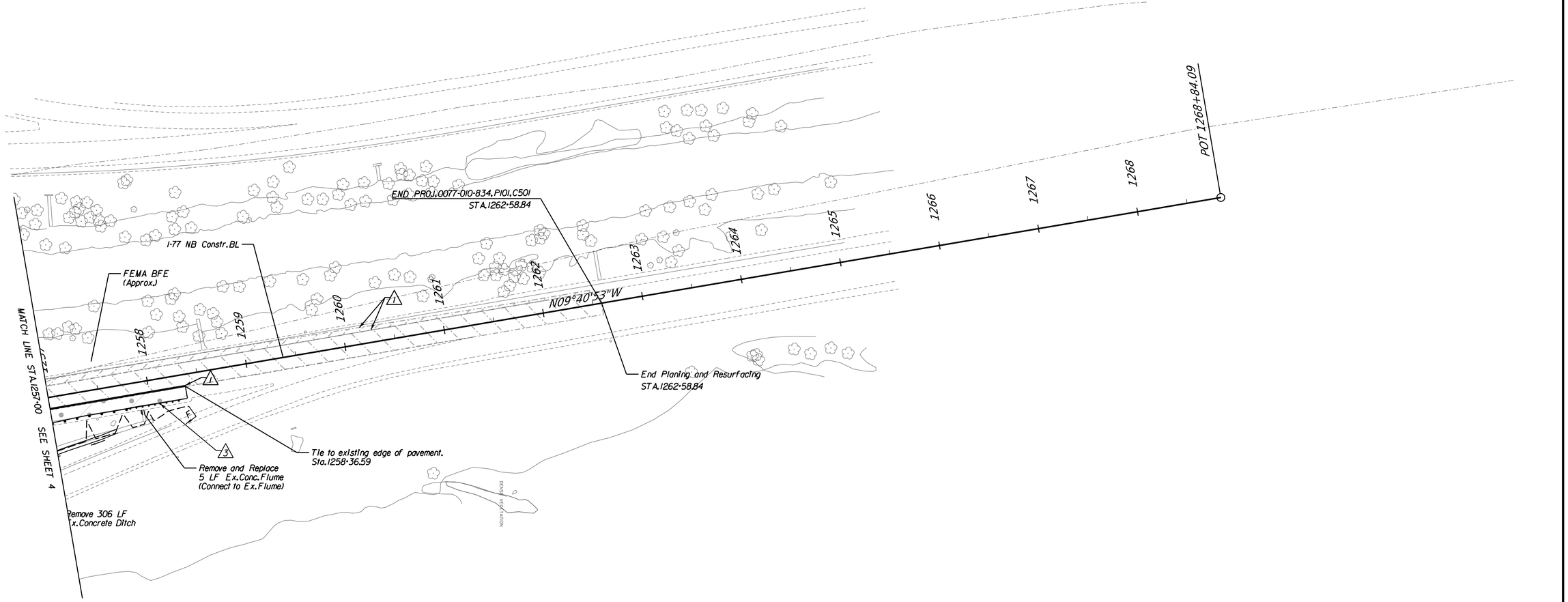
PROJECT	SHEET NO.
0077-010-834	4A

PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 (H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK, 1/12/2022 _____.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834, B644 C501, P101	5

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER



1 Saw Cut Full Depth Req'd.
2 Std. GR-MGS1 Req'd.
3 Std. GR-MGS2 Req'd.
4 Tie to existing guardrail
5 Std. GR-FOA-5 Req'd.
7 Std. GR-2 Req'd.
8 Std. GR-MGS4 Req'd.
9 Std. GR-9 Req'd.

DENOTES TEMPORARY PAVEMENT
DENOTES PLANING AND RESURFACING
DENOTES SHOULDER STRENGTHENING
DENOTES DEMOLITION OF PAVEMENT
DENOTES PROPOSED ASPHALT

C _ _ _ _ Denotes Construction Limits In Cuts
F _ _ _ Denotes Construction Limits In Fills

Note: Dot - dot - dashed lines denote Temporary Easements.
Dot - dashed lines denote Permanent Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Mainline Profile	5A

RFP PLANS
For Information Only
DATE:

SCALE	PROJECT	SHEET NO.
0 50' 100'	0077-010-834	5

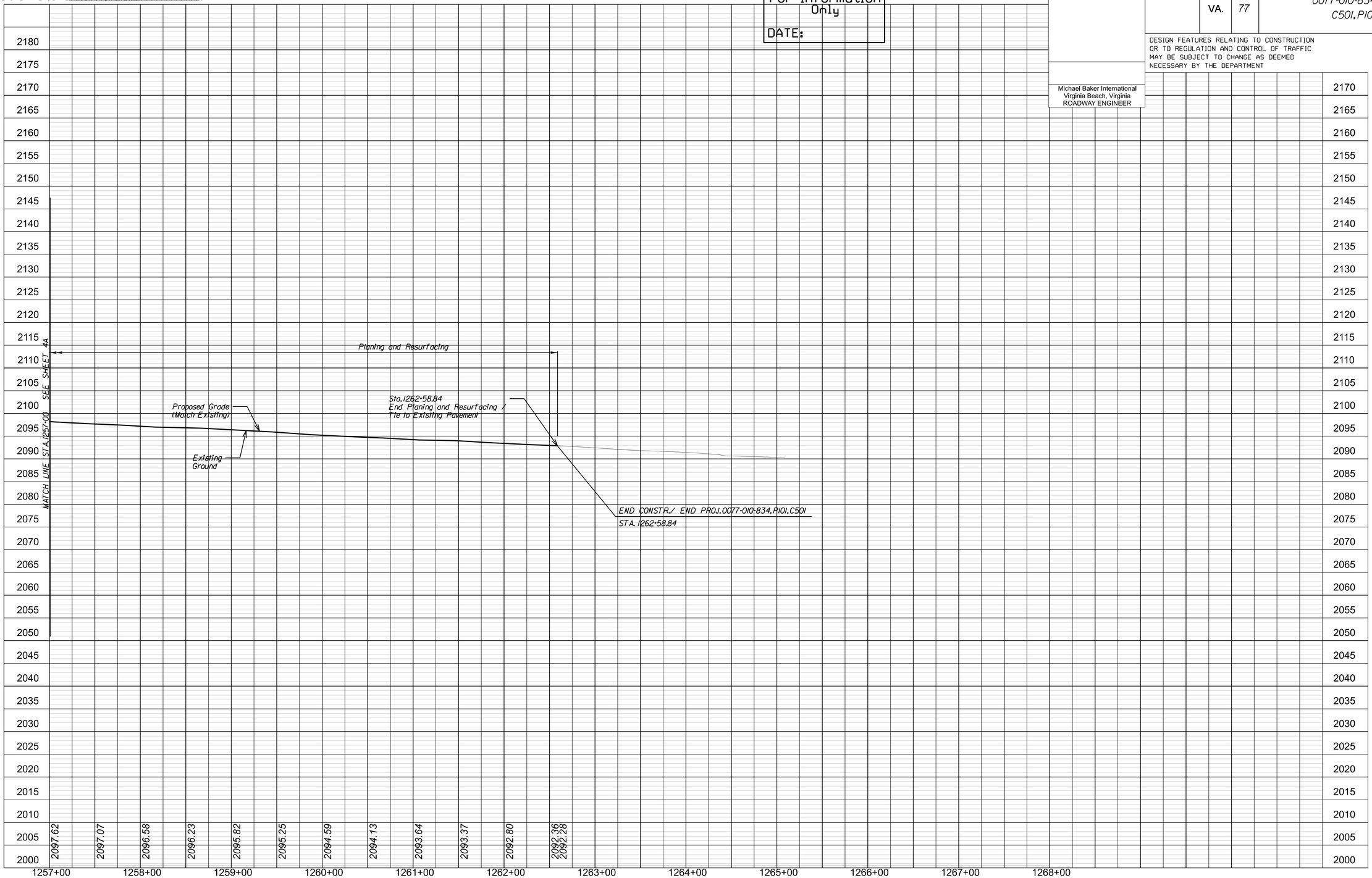
PROJECT MANAGER ROBERT C. LEONARD, P.E. (276) 696-3258 (BRISTOL DISTRICT)
SURVEYED BY, DATE LES. BYRNSIDE, L.S. (804) 330-3781 H&B. SURVEYING AND MAPPING, LLC.), 1/10/2022
DESIGN BY MICHAEL BAKER INTERNATIONAL (757) 463-8770 (VIRGINIA BEACH, VIRGINIA)
SUBSURFACE UTILITY BY, DATE ACCUMARK 1/12/2022

RFP PLANS
For Information Only
DATE:

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	77	0077-010-834 C501, P101	5A

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

Michael Baker International
Virginia Beach, Virginia
ROADWAY ENGINEER



PROJECT	SHEET NO.
0077-010-834	5A

JANUARY 18, 2023

SUBMITTED TO
VIRGINIA DEPARTMENT OF TRANSPORTATION

REQUEST FOR PROPOSAL

I-77 OVER ROUTE 606 BRIDGE REPLACEMENT

A DESIGN-BUILD PROJECT

STATE PROJECT NO: 0077-010-834.P101.C501.B644

FEDERAL PROJECT NO: NHFP-077-2(341)

CONTRACT ID NUMBER: C00117110DB115

PRICE PROPOSAL

SUBMITTED BY

TRITON CONSTRUCTION, INC.

IN ASSOCIATION WITH

Michael Baker INTERNATIONAL

ATTACHMENT 4.0.1.2

DESIGN-BUILD PRICE PROPOSAL CHECKLIST

Project Name: I-77 over Route 606 Bridge Replacement
Contract ID Number: C00117110DB115

- Contents of Price Proposal:

[x]	**Cost Breakdown Summary in whole numbers and the Proposal Price, in both numbers and words (Part 1, Attachment 4.3.1)**
[x]	**Price Adjustment Information and Forms for Asphalt, Fuel and Steel, 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))**
[x]	**Proposal Guaranty (C-24) required by Section 102.07 of Part 5, Division I Amendments to the Standard Specifications**
[x]	**Sworn Statement Forms C-104 and C-105 (Part 1, Attachments 4.3.4(a) and 4.3.4(b))**

4.3.1
COST BREAKDOWN SUMMARY

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	$ 2,155,000.00
Construction Services (exclude QA/QC), LS	$ 10,210,000.00
Quality Assurance (QA) (Construction), LS	$ 980,000.00
Quality Control (QC) (Construction), LS	$ 107,000.00

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): THIRTEEN MILLION FOUR HUNDRED FIFTY-TWO THOUSAND

DOLLARS AND ZERO CENTS ($ 13,452,000.00)

Signature: _____ Date: JANUARY 17, 2023

Design-Builder: TRITON CONSTRUCTION, INC. OF VIRGINIA

Vendor No.: T2998

Attachment 4.4.5
State Project 0077-010-834, P101, C501, B644

SCHEDULE OF ITEMS (ver. 4-15-2014)

This Schedule of Items shall identify the total material quantities and costs of each proposed pay item, using item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes. The Schedule of Items shall be used to cost-load the project schedule, which will serve as the basis for progress payments. Any pay items considered for price adjustments shall be identified. The values and quantities shall be clearly supported by the escrowed pricing documents.

Date:

VDOT Item Code [1]	Item Description	Fuel (F) or Price (P) Adjustment	Approximate Quantity	Units[1]	Budgeted Cost ($)
00110	CLEARING AND GRUBBING		1	LS	$304,000.00
10628	FLEXIBLE PAVEMENT PLANING 0" - 2"	F	12167	SY	$127,753.50
10700	RUMBLE STRIP, ASPHALT		3940	LF	$15,760.00
11070	NS SAW-CUT ASPH CONC		3991	LF	$23,946.00
12030	STD CURB CG-3		109	LF	$14,715.00
13268	REMOVE EXISTING GUARDRAIL TERMINAL		3	EA	$7,500.00
13280	GUARDRAIL GR-MGS1		1115	LF	$44,600.00
13286	GUARDRAIL TERMINAL GR-MGS2		2	EA	$3,300.00
13288	GUARDRAIL HEIGHT TRANSITION GR-MGS4		2	EA	$5,500.00
13320	GUARDRAIL GR-2		60	LF	$2,400.00
13345	ALTERNATE BREAKAWAY CABLE TERMINAL GR-9		1	EA	$3,850.00
13394	FIXED OBJECT ATTACH. GR-FOA-5		4	EA	$15,400.00
24430	DEMOLITION OF PAVEMENT FLEXIBLE		3728	SY	$96,928.00
24600	REMOVE EXISTING GUARDRAIL		1460	LF	$9,490.00
	TIE TO EXISTING GUARDRAIL		5	EA	$1,000.00
00525	CONCRETE CLASS A3 MISC.	F	20	CY	$70,000.00
00540	REINF STEEL		460	LB	$2,300.00
00590	CROSSDRAIN CD-1		104	LF	$2,600.00
01366	36" CONC PIPE		620	LF	$350,300.00
09056	MANHOLE MH-1 OR 2		20	LF	$34,300.00
09057	FRAME & COVER MH-1		2	EA	$2,800.00
09150	EROSION CONTROL STONE CLASS I, EC-1		40	TN	$3,800.00
09215	PAVED DITCH PG-5		138	SY	$47,610.00
09225	PAVED FLUME PG-4		114	SY	$49,590.00
24550	NS REM. EXIST. FLUMES		122	SY	$7,930.00
24550	NS REM EXIST PAVED DITCH		136	SY	$6,528.00
24803	NS REMOVE EXIST. ENDWALL		1	EA	$20,000.00
16360	ASPHALT CONC. TY. SM-12.5E	F,P	1829	TN	$320,075.00
16364	ASPHALT CONCRETE TY. SM-19.0E	F,P	402	TN	$82,410.00
10128	AGGR. BASE MATL. TY. I NO. 21B	F	2492	TN	$164,472.00
10062	12" OPEN-GRADED MATERIAL TYPE I	F	2558	TN	$186,734.00
10065	AGGR. MATL. NO. 1	F	70	TN	$5,740.00
10478	COVER MATL. AGGR. NO. 78	F	11	TN	$1,210.00
10642	ASPHALT CONCRETE TY. BM-25.0A	F,P	2591	TN	$365,331.00
00120	REGULAR EXCAVATION	F	1657	CY	$44,739.00
00136	BORROW EXCAVATION	F	5091	CY	$356,370.00
85003	UNDERCUT EXC @ TWICE REG EXC	F	331	CY	$17,874.00
13495	TRAF BARR SER CONC SINGLE FACE PAR MB-10A		480	LF	$88,800.00
13604	IMPACT ATTEN SER TY I, TY-3 >=40 MPH		2	Each	$38,000.00
24152	TYPE 3 BARRICADE 8'		4	Each	$7,700.00
24160	TEMPORARY CONSTRUCTION SIGN		1650	SF	$77,550.00
24272	TRUCK MOUNTED ATTENUATOR		3000	HR	$102,000.00
24278	GROUP 2 CHANNELIZING DEVICES		32735	DA	$19,641.00
24279	PORTABLE CHANGEABLE MESSAGE SIGN		13094	HR	$170,222.00
24281	ELECTRONIC ARROW BOARD		26188	HR	$52,376.00
24282	FLAGGER SERVICE		500	HR	$50,000.00
24288	WARNING LIGHTS TY B		1364	DA	$5,115.00

24290	TRAFFIC BARRIER SERVICE CONC MB-7D PC		1485	LF	$133,650.00
54105	ERADICATE EXIST LINEAR PVMT MARKING		9200	LF	$20,700.00
54242	TEMP PAVE MARKER 2 WAY		500	EA	$7,000.00
54430	TEMP PVMT MRKG TY A 6"		9200	LF	$15,180.00
50108	SIGN PANEL		190	SF	$7,600.00
50300	REMOVE EXISTING 1 POST SIGN STRUCTURE		20	Each	$2,200.00
50436	SIGN POST STP-1, 2 1/2", 12 GUAGE		300	LF	$6,600.00
54020	TYPE A PVMT LINE MRKG 4"		2170	LF	$3,580.50
54028	TYPE A PAVEMENT LINE MRKG 24"		92	LF	$2,024.00
54076	TYPE B CLASS VI PVMT LINE MRKG 6"		6470	LF	$42,055.00
54078	TYPE B CLASS VI PVMT LINE MRKG 12"		1310	LF	$28,165.00
54217	SNOW PLOW RAISED PAVE MARKER ASPH CONC		105	EA	$34,125.00
54594	PVT SYMB MRKG WRONG WAY ARROW TY B CL II		1	EA	$1,100.00
60409	CONC. CLASS A4 MOD. LOW SHRINKAGE	F	220	CY	$753,300.00
60450	CONC. CLASS A4 BRIDGE APPR. SLAB	F	142	CY	$160,460.00
60490	BRIDGE DECK GROOVING		954	SY	$27,666.00
61711	CORROSION RESISTANT REINF. STEEL CL. I		53100	LB	$318,600.00
61812	STR.STEEL PLATE GIRDER ASTM A709 GRADE 50W		264560	LB	$1,113,200.00
62024	CONCRETE PARAPET 42"		421	LF	$286,280.00
64011	STRUCTURE EXCAVATION	F	283	CY	$20,376.00
64015	SELECT BACKFILL ABUTMENT ZONE	F	446	CY	$77,158.00
64021	ELASTIC INCLUSION		25	CY	$92,500.00
64032	GEOCOMPOSITE WALL DRAIN		140	SY	$12,320.00
64036	PIPE UNDERDRAIN 6"		148	LF	$3,996.00
64045	TEMPORARY SHEET PILING		1	LS	$55,000.00
64101	DYNAMIC PILE TEST		2	EA	$19,000.00
64112	STEEL PILES 12"		1120	LF	$330,400.00
64765	PILE POINT FOR 12" STEEL PILE		42	EA	$12,600.00
64901	NS RETAINING STRUCTURE	F	3690	SF	$1,014,750.00
65013	CONCRETE CLASS A3	F	166	CY	$287,180.00
65200	REINF. STEEL		6040	LB	$21,140.00
65211	CORROSION RESISTANT REINF. STEEL CL. I		11550	LB	$75,075.00
67900	NS DISM. & REM. EXIST. STR.		1	LS	$385,560.00
68476	NS ENV.& WORKER PROTECTION		1	LS	$5,000.00
69740	CONCRETE SLAB SLOPE PROTECTION 4"		396	SY	$108,900.00
	TEMP & PERMANENT EROSION & SEDIMENT CONTROL		1	LS	$350,000.00
00100	MOBILIZATION		1	LS	$540,500.00
00101	CONSTRUCTION SURVEYING CONSTRUCTION		1	LS	$135,000.00
85130	BOND		1	LS	$102,600.00
25565	PROGRESS SCHEDULE BASELINE		1	LS	$10,000.00
25567	PROGRESS SCHEDULE UPDATES		24	EA	$67,200.00
25508	NS FIELD OFFICE		30	MO	$90,000.00
25591	DESIGN BUILD PRELIMINARY ENG		1	LS	$2,100,000.00
25597	DESIGN BUILD ENVIRONMENTAL MITIGATION		1	LS	$55,000.00
25593	DESIGN BUILD QAQC		1	LS	$980,000.00
25595	DESIGN BUILD QA/QC COSTS QA/CIP		1	LS	$107,000.00

[1] Use five-digit work item codes and units of measure that are consistent with VDOT's list of standard and non-standard item codes (i.e. 00100-Mobilization; 00120-Regular Excavation, etc...).

4.3.2 ADJUSTMENTS TO ASPHALT, FUEL AND STEEL PRICES

EXHIBIT 6.3(a)
ADJUSTMENT FOR ASPHALT

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

June 26, 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 x %AC x 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 Tons SM-12.5A x 6.1% x - $15.00/Ton = - $6,862.50 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

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.

X I elect to use this provision

__I elect not to use this provision

Date: JANUARY 17, 2023

Signature: _____

Design-builder: TRITON CONSTRUCTION, INC. OF VIRGINIA

Vendor No.: T2998

EXHIBIT 6.3(d)
ADJUSTMENT FOR STEEL

VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION FOR
PRICE ADJUSTMENT FOR STEEL
DESIGN-BUILD PROJECTS

June 6, 2018

In the event the Design-Builder elects to seek adjustment for steel items designated in the Price Proposal\Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. If new pay items which involve steel are established by Work Order, they will not be subject to Price Adjustment unless specifically designated in the Work Order to be subject to Price Adjustment.

The Design-Builder will submit their monthly application for payment associated with eligible work packages with an adjustment up or down as appropriate for cost changes in steel used on specific items of work identified in the Price Proposal/contract in accordance with this provision. Provided at the end of this provision is a master listing of standard bid items the Department has determined are eligible for steel price adjustment. Only items on this listing will be eligible for steel price adjustment. Generally, non-standard pay items will not be eligible for steel price adjustment unless such steel items are project-specific modifications of items normally eligible and the quantities present on the project constitute major items of the work. Inventoried materials from the listing of eligible items are specifically excluded for consideration. This provision also does not allow for price adjustment for embedded steel where the steel item is a component of the finished bid item and there is no separate or distinct payment for the steel item or for steel used for pre-tensioned or post-tensioned precast components where furnishing steel is included in the unit price of the finished bid item. This includes items such as (but not limited to) drop inlets, median barriers, sound barrier walls, bridge railing and parapets, are not eligible for consideration under this provision.

The requirements of this provision shall apply only to material cost changes that occur between the date of the opening of the Price Proposal and the date the material is shipped to the fabricator. To be eligible for this price adjustment, Design-Builder is required to fill out the accompanying Form for Price Adjustment for Eligible Steel Items on Design-Build Projects and submit the same with its Price Proposal for the Project. By signing the Form and submitting it with its Price Proposal Design-Builder declares its intention to participate in the price adjustment in its contract with the Department. For the purposes of this provision, the prices listed on the Form for Price Adjustment for Eligible Steel Items on Design-Build projects are fixed for cost and adjustment calculations regardless of quantities incorporated into final design. Further, in order for steel items to be eligible for adjustment, once shipped to the fabricator, the items shall be specifically stored, labeled, or tagged, recognizable by color marking, and identifiable by project for inspection and audit verification immediately upon arrival at the fabricator.

Design-Builder shall upon request furnish documentation supporting the price per pound for eligible steel items as shown on the Form for Price Adjustment for Eligible Steel Items on Design-Build Projects furnished with its Price Proposal. Design-Builder must use the format as shown with this Form; no other format for presenting this information will be permitted. Design-Builder shall certify that all items of documentation are original and were used in the computation of the price per pound amount for the represented eligible pay items for the month the Price Proposal was opened. This documentation shall support the base line material price ("Base Price") of the steel item only. Base price per pound shall not include the following cost components: fabrication, shipping, storage, handling, and erection.

Failure to submit all documentation required or requested supporting the per pound prices on eligible steel items will result in Design-Builder being ineligible for a price adjustment of any or all steel items.

Price adjustment of each qualifying item will only be considered if there is an increase or decrease in the cost of eligible steel materials in excess of 10 percent up to a maximum of 60 percent from the Base Price when compared with the latest published price index ("Price Index") in effect at the time material is shipped to the fabricator.

The Price Index the Department is using is based on The U.S. Department of Labor, Bureau of Labor Statistics, Producers Price Index (PPI) which measures the average price change over time of the specific steel eligible item from the perspective of the seller of goods. The Master List table provided at the end of this provision indicates the Producers Price Index (PPI) steel category index items and the corresponding I.D. numbers to which VDOT items will be compared. **Please note**: The Producers Price Index (PPI) is subject to revision 4 months after original publication, therefore, price adjustments and payments will not be made until the index numbers are finalized.

Items under consideration for price adjustment will be compared to the steel category index items and the corresponding I.D. numbers shown in the table attached to the end of this provision.

The price adjustment will be determined by computing the percentage of change in index value beyond 10 percent above or below the index on the date of opening of Design-Builder's Price Proposal to the index value on the date the steel material is shipped to the fabricator (Please see included sample examples). Weights and date of shipment must be documented by a bill of lading provided to the Department. The final price adjustment dollar value will be determined by multiplying this percent increase or decrease in the index (after 10%) by the represented quantity of steel shipped, by the Base Price per pound subject to the limitations herein.

Price increase/decrease will be computed as follows:

$$A = B \times P \times Q$$

Where;

- A = Steel price adjustment in lump sum dollars
- B = Average weighted price of steel submitted in Design-Builder's Price Proposal for project in price per pound as listed on the Form for Price Adjustment for Eligible Steel Items on Design-Build Project
- P = Adjusted percentage change in PPI average from shipping date to date of opening of Price Proposal minus 10% (0.10) threshold
- Q = Total quantity of steel in pounds shipped to fabricator for specific project

This price adjustment is capped at 60 percent. This means the maximum "P" value for increase or decrease that can be used in the above equation is 50% (60%-10% threshold).

Calculations for price adjustment shall be shown separate from the monthly progress payment for work packages and will not be included in the total cost of work for determination of progress or for extension of contract time.

Upon Department review and due process consideration for redress by Design-Builder, any apparent evidence to unbalance the price supplied by Design-Builder in favor of items subject to price adjustment will result in ineligibility for Department participation under this provision.

FORM FOR PRICE ADJUSTMENT FOR ELIGIBLE STEEL ITEMS ON DESIGN-BUILD PROJECTS
Must be supplied with Price Proposal for Department Participation

(All prices to be supported by project-specific quotes)

DATE FOR RECEIPT OF PRICE PROPOSAL JANUARY 18, 2023

Note: All prices (costs) are to include any surcharges on materials quoted. Vendors must include this surcharge with their cost. All prices (costs) are F.O.B. from the originating mill.

Item Number	Item Description	Quantity	Unit	Unit Price	Supplier	Date of Quote
	N/A					

We/I, the undersigned, understand that by supplying prices for the steel items listed above and signing this form we are declaring our desire to apply the Special Provision For Price Adjustment for Steel Design-Build Projects to this Price Proposal and contract. The terms and conditions for participation are as stated in the Special Provision For Price Adjustment for Steel Design-Build Projects.

TRITON CONSTRUCTION, INC. OF VIRGINIA
Design-Builder

JANUARY 17, 2023
Date

Sample Calculation of a Price Adjustment (increase)

Project bid on April 28, 2004.

Project has 450,000 lb. of eligible structural steel.

Design Builder's *f.o.b. supplier price for structural steel submitted in the Price Proposal is $0.2816 per pound.

*free on board

Adjusted** BLS Producers Price Index (PPI) most recently published average at time of opening of the Price Proposal is 139.6.

All eligible steel shipped to fabricator in same month, October 2004.

Adjusted BLS Producers Price Index (PPI) most recently published average for month of October is 161.1

Adjustment formula is as follows:

A = B X P X Q

Where;
- A = Steel price adjustment in lump sum dollars
- B = Average weighted price of steel submitted in the Price Proposal for Design-Build project in $ per pound
- P = Adjusted percentage change in PPI average from shipping date to date of submitted Price Proposal minus 10% (0.10) threshold
- Q = Total quantity of eligible steel shipped to fabricator in October 2004 for this project in pounds

B = $0.2816

P = (161.1- 139.6)/139.6 – 0.10 = 0.054

Q = 450,000 lb.

A = 0.2816 x 0.054 x 450,000

A = $6,842.88 pay adjustment to Design-Builder

Sample Calculation of a Price Adjustment (decrease)

Project bid on April 28, 2004.

Project has 450,000 lb. of eligible structural steel.

Design-Builder's *f.o.b. supplier price for structural steel submitted in the Price Proposal is $0.2816 per pound.

*free on board

Adjusted BLS Producers Price Index (PPI) most recently published average at time of opening of the Price Proposal is 156.6.

All eligible steel shipped to fabricator in same month, October 2004.

Adjusted BLS Producers Price Index (PPI) most recently published average for month of October is 136.3

Adjustment formula is as follows:

A = B X P X Q

Where;
- A = Steel price adjustment in lump sum dollars
- B = Average weighted price of steel submitted in the Price Proposal for Design-Build project in $ per pound
- P = Adjusted percentage change in PPI average from shipping date to date of submitted Price Proposal minus 10% (0.10) threshold
- Q = Total quantity of eligible steel shipped to fabricator in October 2004 for this project in pounds

B = $0.2816

P = (156.6 – 136.3)/156.6 – 0.10 = 0.030

Q = 450,000 lb.

A = 0.2816 x 0.030 x 450,000

A = $3,801.60 credit to Department

MASTER LISTING

STANDARD BID ITEMS ELIGIBLE FOR STEEL PRICE ADJUSTMENT

June 8, 2018

ITEM NUMBER	ITEM DESCRIPTION	UNITS	BLS Series I. D. Number WPU used in $ adjust.
00519	SHEET PILE, STEEL	SF	avg. 1017 & 101
00540	REINF. STEEL	LB	101704
00560	STRUCTURAL STEEL JB-1	LB	avg. 1017 & 101
11030	REINF. STEEL BRIDGE APPR. SLAB	LB	101704
13545	REINF. STEEL	LB	101704
14502	REINFORCING STEEL	LB	101704
45522	4" STEEL ENCASE. PIPE	LF	101706
45532	6" STEEL ENCASE. PIPE	LF	101706
45562	16" STEEL ENCASE. PIPE	LF	101706
45572	18" STEEL ENCASE. PIPE	LF	101706
45582	24" STEEL ENCASE. PIPE	LF	101706
45584	24" JACKED STEEL ENCASEMENT PIPE	LF	101706
45592	30" STEEL ENCASE. PIPE	LF	101706
60452	REINF. STEEL BRIDGE APPR. SLAB	LB	101704
61700	REINF. STEEL	LB	101704
61704	CORROSION RESISTANT REINF. STEEL	LB	101704
61750	STRUCT.STEEL HIGH STRG.PLT.GIRDERS	LB	avg. 1017 & 101
61811	STR.STEEL PLATE GIRDER ASTM A709 GRADE50	LB	avg. 1017 & 101
61812	STR.STEEL PLATE GIRDER ASTM A709 GRADE50	LB	avg. 1017 & 101
61813	STR.STEEL PLATE GIRDER ASTM A709 GRADEHPS50W	LB	avg. 1017 & 101
61814	STR.STEEL PLATE GIRDER ASTM A709 GRADEHPS70W	LB	avg. 1017 & 101
61820	STR.STEEL ROLLED BEAM ASTM A709 GRADE 36	LB	avg. 1017 & 101
61821	STR.STEEL ROLLED BEAM ASTM A709 GRADE50	LB	avg. 1017 & 101
61822	STR.STEEL ROLLED BEAM ASTM A709 GRADE50W	LB	avg. 1017 & 101
61990	STEEL GRID FLOOR	SF	avg. 1017 & 101
64110	STEEL PILES 10"	LF	avg. 1017 & 101
64112	STEEL PILES 12"	LF	avg. 1017 & 101
64114	STEEL PILES 14"	LF	avg. 1017 & 101
64768	DRIVING TEST FOR 12" STEEL PILE	LF	avg. 1017 & 101
64778	DRIVING TEST FOR 14" STEEL PILE	LF	avg. 1017 & 101
65200	REINF. STEEL	LB	101704
65204	CORROSION RESISTANT REINF. STEEL	LB	101704
68100	REINF. STEEL	LB	101704
68104	CORROSION RESISTANT REINF. STEEL	LB	101704
68107	STR.STEEL PLATE GIRDER ASTM A709 GRADE50	LB	avg. 1017 & 101
68108	STR. STEEL PLATE GIRDER ASTM A709 GR50W	LB	avg. 1017 & 101
68109	STR. STEEL PLATE GIRDER ASTM A709 GR.HPS50W	LB	avg. 1017 & 101
68110	STR. STEEL PLATE GIRDER ASTM A709 GR.HPS70W	LB	avg. 1017 & 101
68112	STR.STEEL ROLLED BEAM ASTM A709 GR.36	LB	avg. 1017 & 101
68113	STR.STEEL ROLLED BEAM ASTM A709 GR.50	LB	avg. 1017 & 101
68114	STR.STEEL ROLLED BEAM ASTM A709 GR. 50W	LB	avg. 1017 & 101
68115	STRUCT. STEEL	LB	avg. 1017 & 101
68270	REINF. STEEL BRIDGE APPR. SLAB	LB	101704
69060	SHEET PILES, STEEL	SF	avg. 1017 & 101

69100	REINF. STEEL	LB	101704
69104	CORROSION RESISTANT REINF. STEEL	LB	101704
69110	STEEL PILES 10"	LF	avg. 1017 & 101
69112	STEEL PILE 12"	LF	avg. 1017 & 101
69113	DRIVING TEST FOR 12" STEEL PILE	LF	avg. 1017 & 101

___I elect to use this provision

_X_ I elect not to use this provision

Date: JANUARY 17, 2023

Signature: _____

Design-Builder: TRITON CONSTRUCTION, INC. OF VIRGINIA

Vendor No.: T2998

4.3.3
PROPOSAL GUARANTY
C-24

Form C-24
Rev. 7-6-05

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSAL GUARANTY

KNOW ALL MEN BY THESE PRESENTS, THAT WE Triton Construction, Inc. of Virginia As principal, and Fidelity and Deposit Company of Maryland 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 18th Day of January, 2023

WHEREAS, the above said principal is herewith submitting its proposal for:

PROJECT NUMBER: State Project No.: 0077-010-834, P101, C501, B644
Federal Project No.: NHFP-077-2(341)

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.

Triton Construction, Inc. of Virginia
(Principal*)

By: _____
(Officer, Partner or Owner) (Seal)
Thomas C. Apperson, President

_____
(Principal*)

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

_____
(Principal*)

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

Fidelity and Deposit Company of Maryland
(Surety Company)

By: _____
(Attorney-in-Fact**) (Seal)
Kimberly L. Miles
One Hillcrest Drive, E, Suite 300, Charleston, WV 25311
(Address)

By: _____
(Surety Company)

_____
(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.

Electronic Bid Bond ID# | Company/Bidder Name | Signature and Title

**Attach copy of Power of Attorney

ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by **Robert D. Murray, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **Andrew K. TEETER, Jaime L. CARPENTER, Kimberly L. MILES, Douglas P. TAYLOR and Tammy S. SELBE, all of Charleston, West Virginia**, EACH, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: any and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland, in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND**, this 1st day of August, A.D. 2019.

ATTEST:
ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: Robert D. Murray
Vice President

By: Dawn E. Brown
Secretary

State of Maryland
County of Baltimore

On this 1st day of August, A.D. 2019, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **Robert D. Murray, Vice President and Dawn E. Brown, Secretary** of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2023

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify of revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 18th day of January, 2023.

Brian M Hodges

By: Brian M. Hodges
Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims
1299 Zurich Way
Schaumburg, IL 60196-1056
www.reportsfclaims@zurichna.com
800-626-4577

4.3.4
SWORN STATEMENT FORMS C-104 AND C-105

Form C-104
Rev. 7-13-05

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PROJECT: 0077-010-834, P101, C501, B644

FHWA: NHFP-077-2(343)

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 FOLLOWIN G STATEMENT EITHER BY SIGNING THE AFFIDAVIT AND HA VING IT NOTARIZED OR BY SIGNING THE UNSWORN DECLARATION UNDER PENALTY OF PERJURY U NDER THE LA WS 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 SAINT ALBANS, WEST VIRGINIA (County (City), STATE), this 17TH day of JANUARY, 20 23

TRITON CONSTRUCTION, INC. OF VIRGINIA (Name of Firm) By: _____ (Signature) PRESIDENT (Title (print))

STATE of WEST VIRGINIA COUNTY (CITY) of PUTNAM, HURRICANE To-wit:

I JESSICA RAINES, a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day THOMAS C. APPERSON 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 17TH day of JANUARY, 20 23

Jessica Raines
Notary Public

My Commission expires DECEMBER 4, 2027

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 _____ (County (City), STATE), this ____ day of _____, 20 ____

_____ (Name of Firm) By: _____ (Signature) _____ (Title (print))

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Jessica Raines
2702 Virginia Ave
Hurricane, WV 25526
My Commission Expires December 4, 2027

ORDER NO.:
CONTRACT ID. NO.:

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 SAINT ALBANS, WEST VIRGINIA (County (City), STATE), this 17TH day of JANUARY, 20 23

TRITON CONSTRUCTION, INC. OF VIRGINIA (Name of Firm) By: _____ (Signature) PRESIDENT (Title (print))

STATE of WEST VIRGINIA COUNTY (CITY) of PUTNAM, HURRICANE To-wit:

I JESSICA RAINES, a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day THOMAS C. APPERSON 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 17TH day of JANUARY, 20 23

Jessica Raines
Notary Public

My Commission expires DECEMBER 4, 2027

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Jessica Raines
2702 Virginia Ave
Hurricane, WV 25526
My Commission Expires December 4, 2027

We Make a Difference

Michael Baker
INTERNATIONAL