



Route 29 NBL over Tye River Bridge Replacement and Approaches RFP Information Meeting

October 15, 2007

**Frank J. Lukanich III, PE – Structure & Bridge
Jeff Roby, PE – IPD Project Manager**

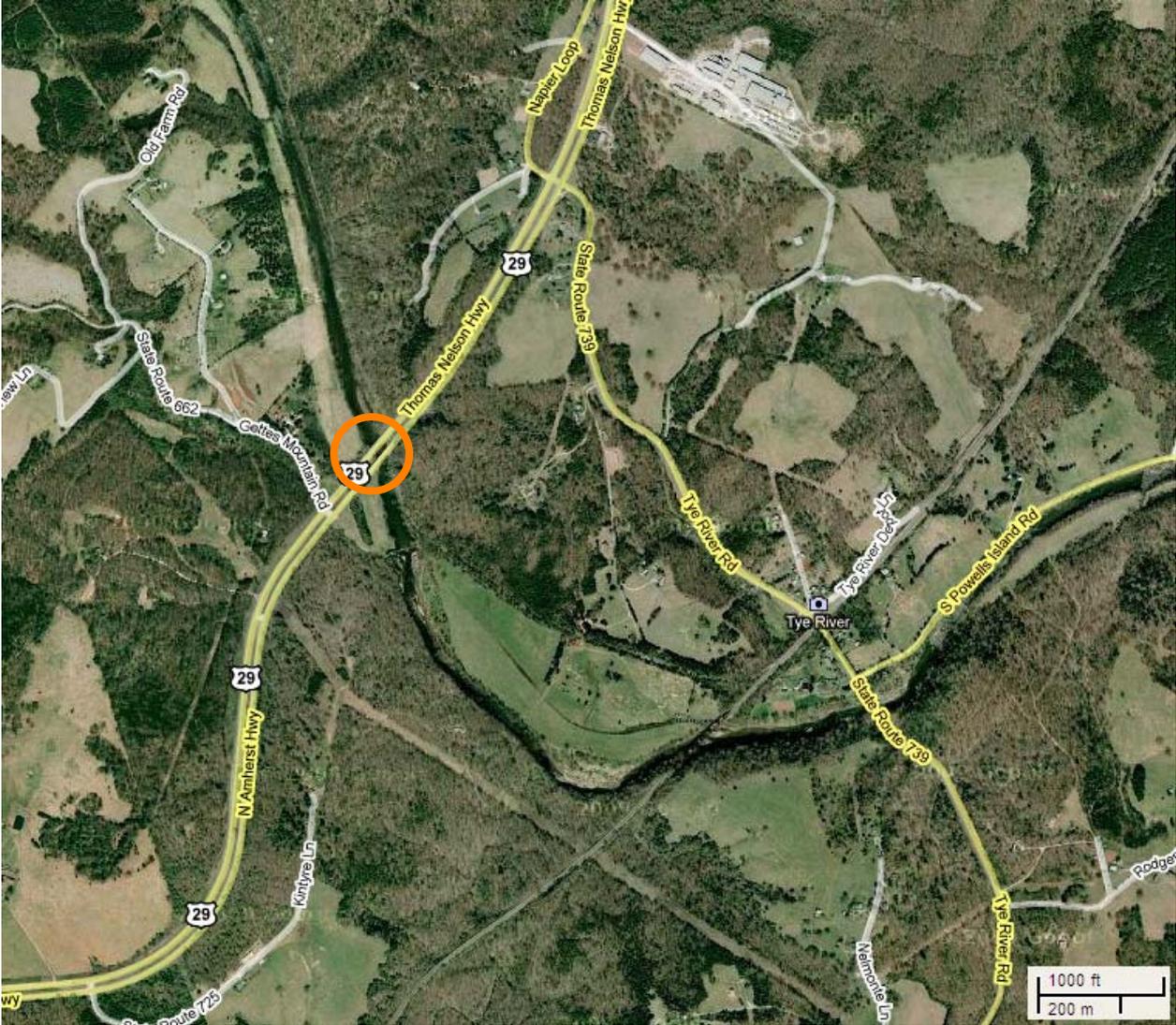
Topics

- **Purpose**
- **Pictures**
- **Project Overview**
- **RFP Information Package**
- **RFP Schedule and Requirements**
- **Questions / Answers**

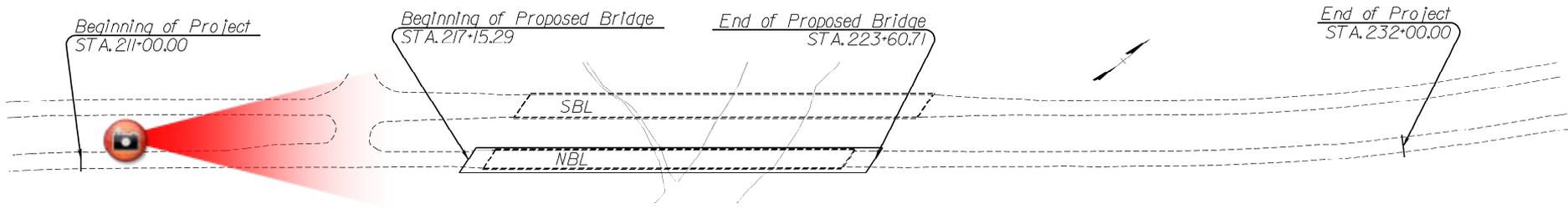
Purpose

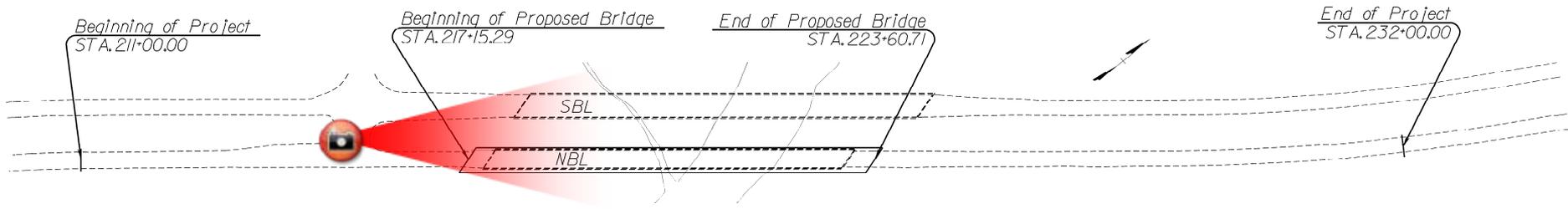
- To replace the existing structurally deficient and functionally obsolete NBL bridge with a new two-lane bridge, along with the reconstruction of the roadway approaches on both ends of the proposed structure.
- Top Priority for replacement in the Lynchburg District.

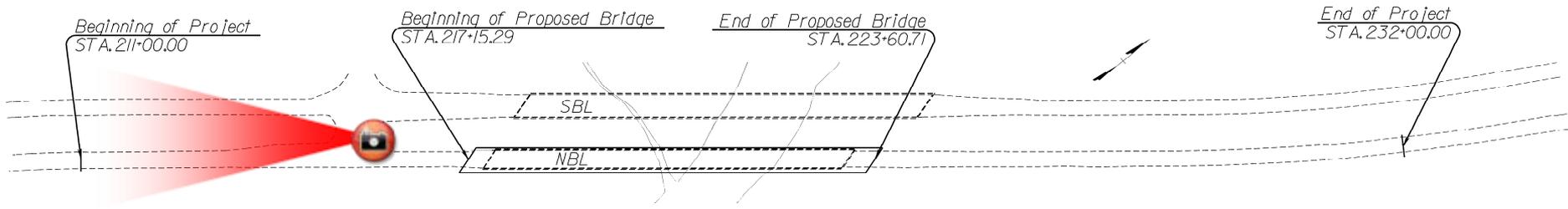
Project Location

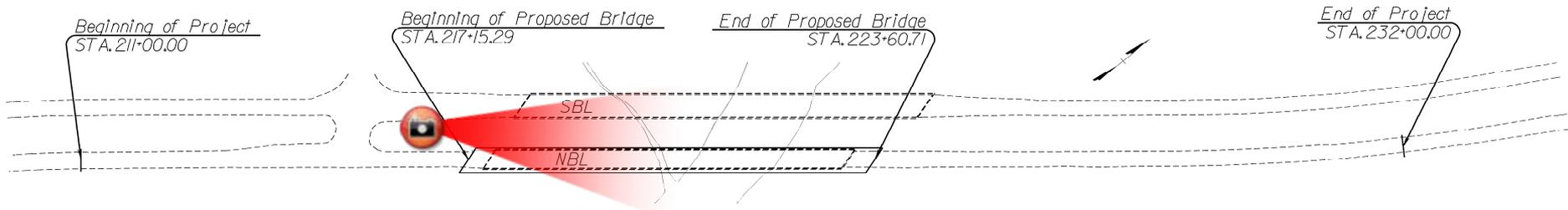


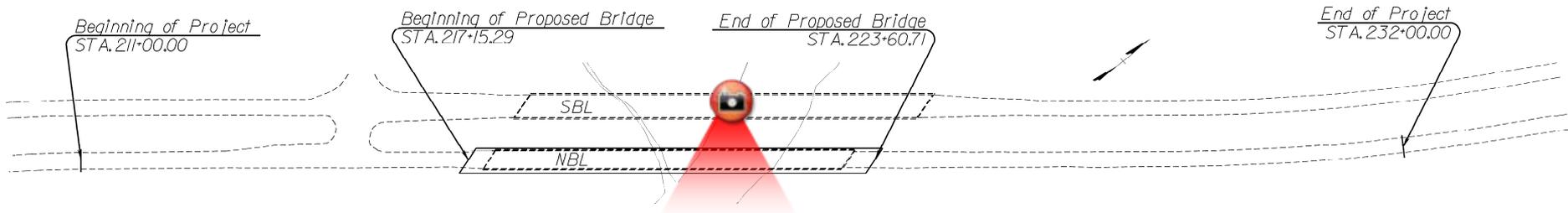


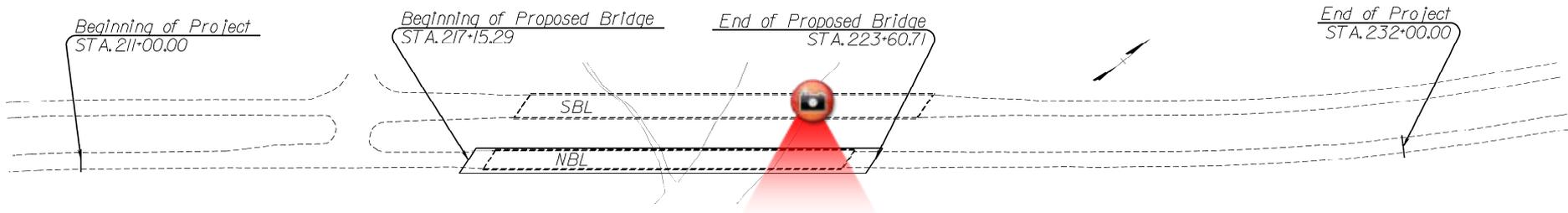


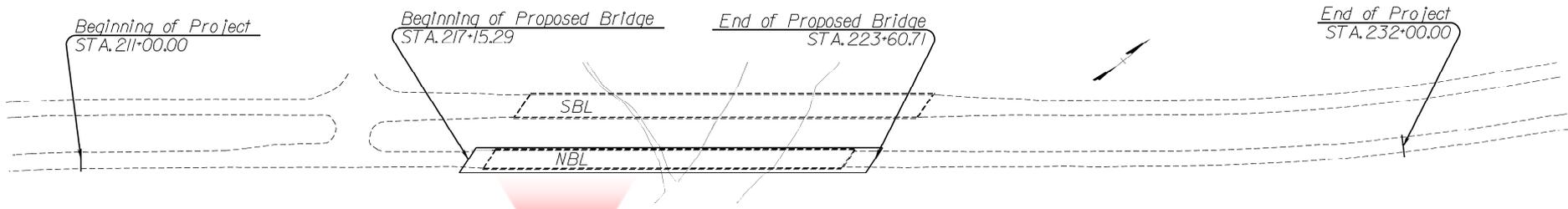


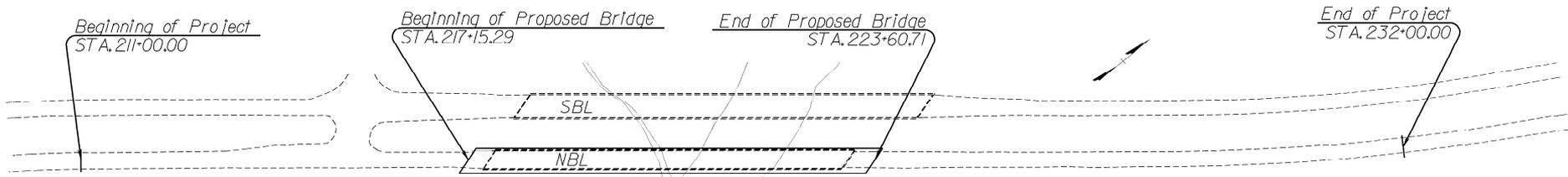


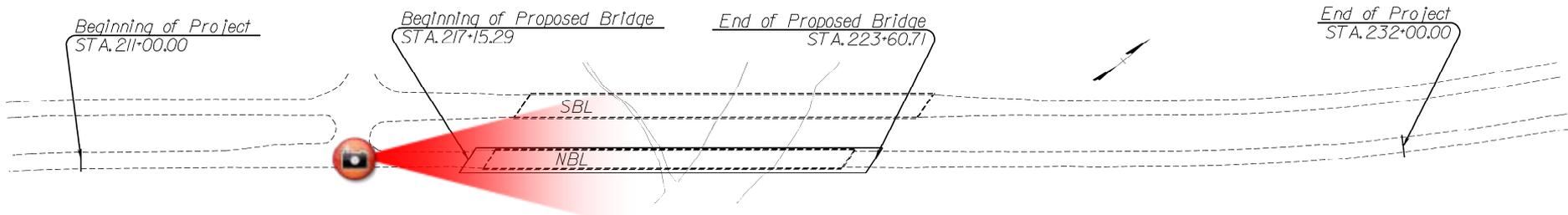


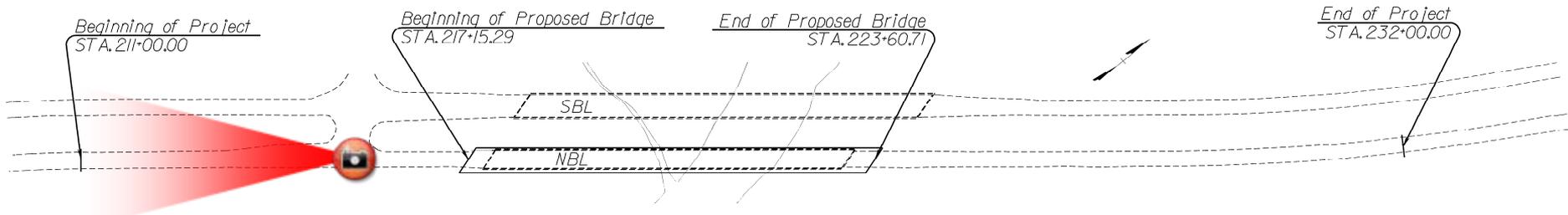


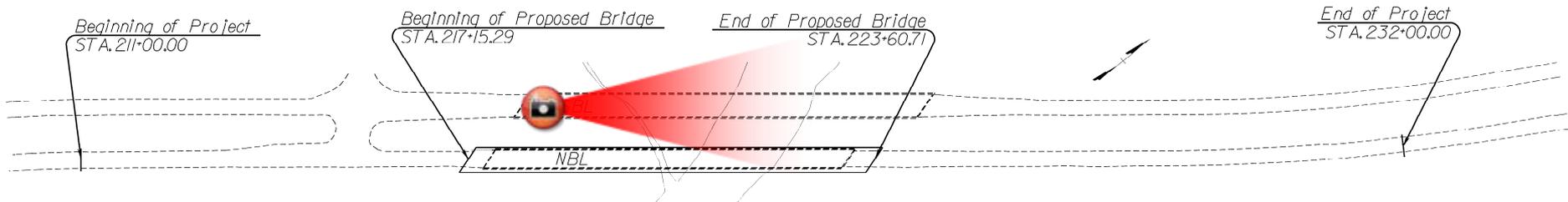


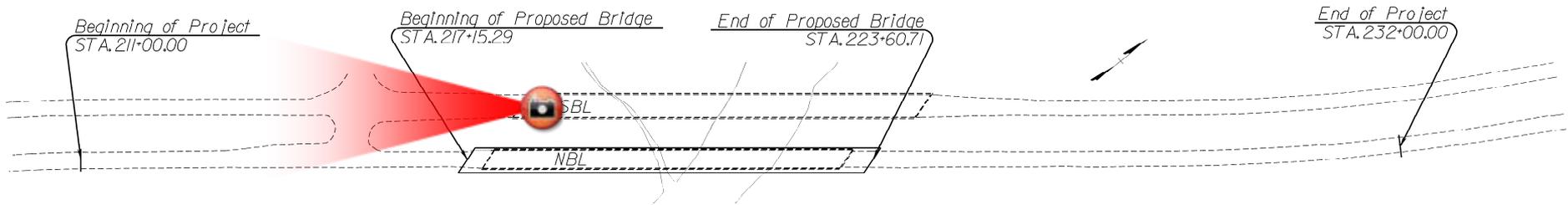












Project Overview

- **Bridge Design**
- **Roadway Design**
- **Right of Way**
- **Hydrologic and Hydraulic Analysis**
- **Transportation Management Plan**
- **Environmental**
- **Abandoned Railroad Trail**

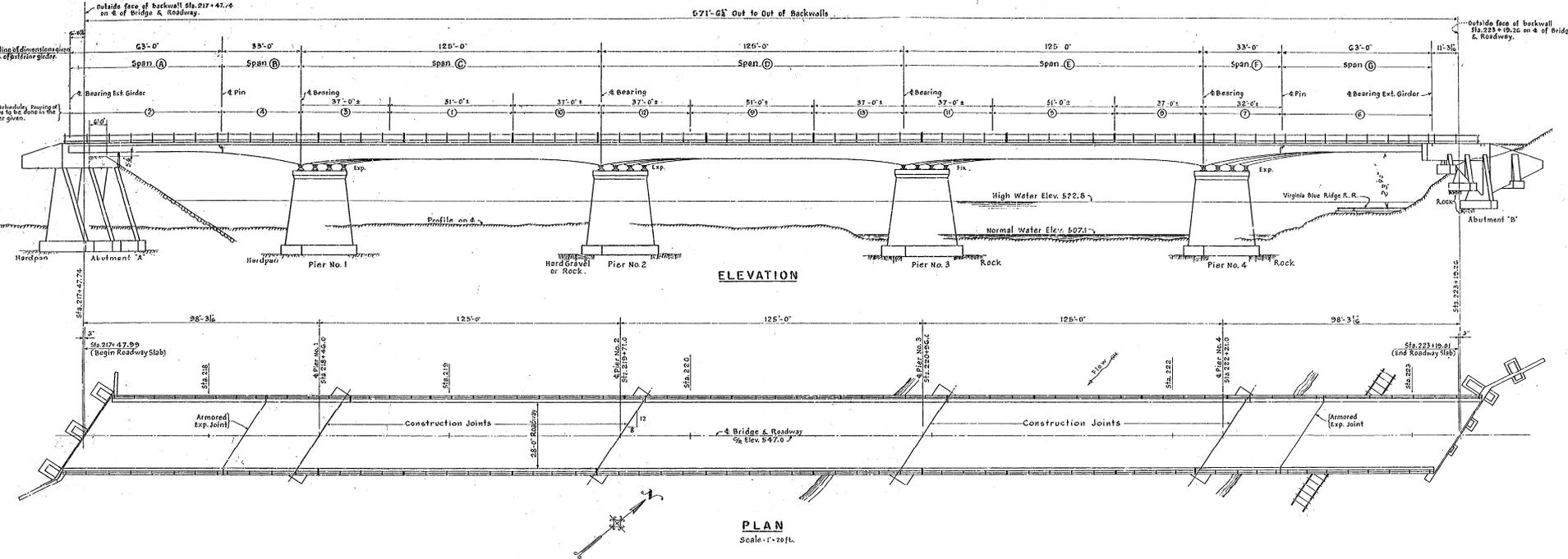
Bridge Design

- **Bridge shall be designed using:**
 - **AASHTO LRFD Bridge Design Specifications, 4th Edition, 2007; 2008 and 2009 Interim Specifications.**
 - **VDOT Modifications (IIM-S&B-80).**
 - **Additional Foundation Criteria.**
- **Reduce long term maintenance costs.**
- **Expansion joints shall be minimized.**
- **Low Permeability Concrete.**
- **Design-level geotechnical investigation.**

Bridge Design

- **Corrosion Resistant Reinforcing Steel (CRR).**
- **Beams/Girders:**
 - **Prestressed Concrete.**
 - or
 - **Structural Steel.**
 - **NO timber bridge elements.**
- **Existing Structure.**
 - **NO part of existing structure shall be used in the proposed bridge.**
- **Multi-Column Piers not permitted.**

Rte. 29 NBL Existing Bridge

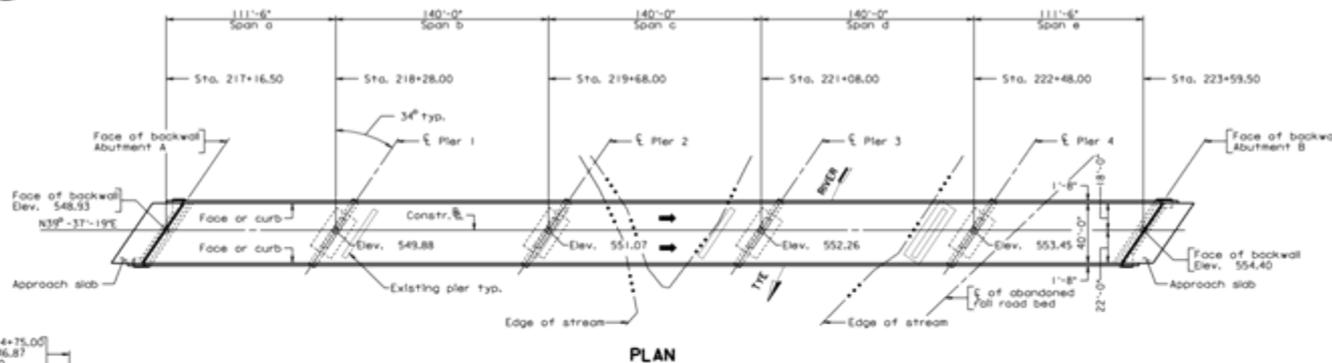




FHWA REGION	STATE	ROUTE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
3	VA			29	0029-005-130, B645	1
Federal Oversight Code: N/A			LPC No. 76552		FHWA Construction and Scour Codes: X071-S.	

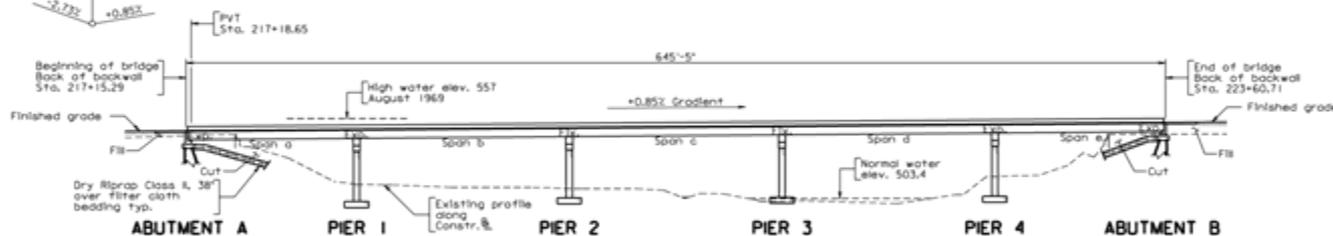
GENERAL NOTES:

Width: 40'-0" face-to-face of curbs.
 Span layout: 111'-6" - 140' - 140' - 140' - 111'-6"
 Capacity: HL-93 loading.
 Drainage area: XXX sq. ft.
 Specifications:
 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2007.
 Design: AASHTO LRFD Bridge Design Specifications, 4th Edition, 2007; 2008 and 2009 Interim Specifications; and VDOT Modifications.
 Standards: Virginia Department of Transportation Road and Bridge Standards, 2008.
 These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.
 Bridge No. of existing bridge is 1939. Plan No. is 091-19.
 The existing structure is designated a Type B structure in accordance with Sec. 411 of the Specifications.



PLAN

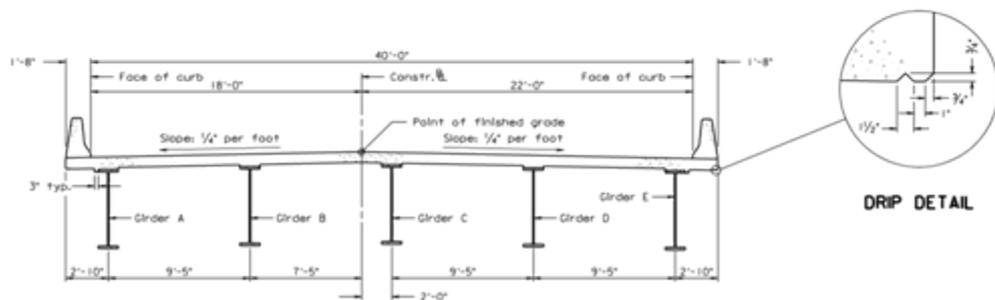
C.C. Sta. 214+75.00
 C.C. Elev. 548.87
 V.C. = 487.30



DEVELOPED SECTION ALONG CONSTR.

Note to Offerors:
 These plans depict the approximate location and a concept of the proposed structure. The bridge geometry, span lengths, type and size of superstructure members and substructure element and maintenance of traffic are to be developed by the Offeror.

PRELIMINARY PLANS
 THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



TRANSVERSE SECTION
Scale 1/4" = 1'-0"

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

VDOT
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE ON
RTE. 29 NBL OVER TYE RIVER
AMHERST-NELSON COUNTY LINE
PROJ. 0029-005-130, B645

Recommended for Approval: _____ State Structure and Bridge Engineer _____ Date _____
 Approved: _____ Chief Engineer _____ Date _____

Scale: 1" = 40' unless otherwise noted

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Limits of Proposed Bridge

BEG. SECT. B645
STA. 217+15.29

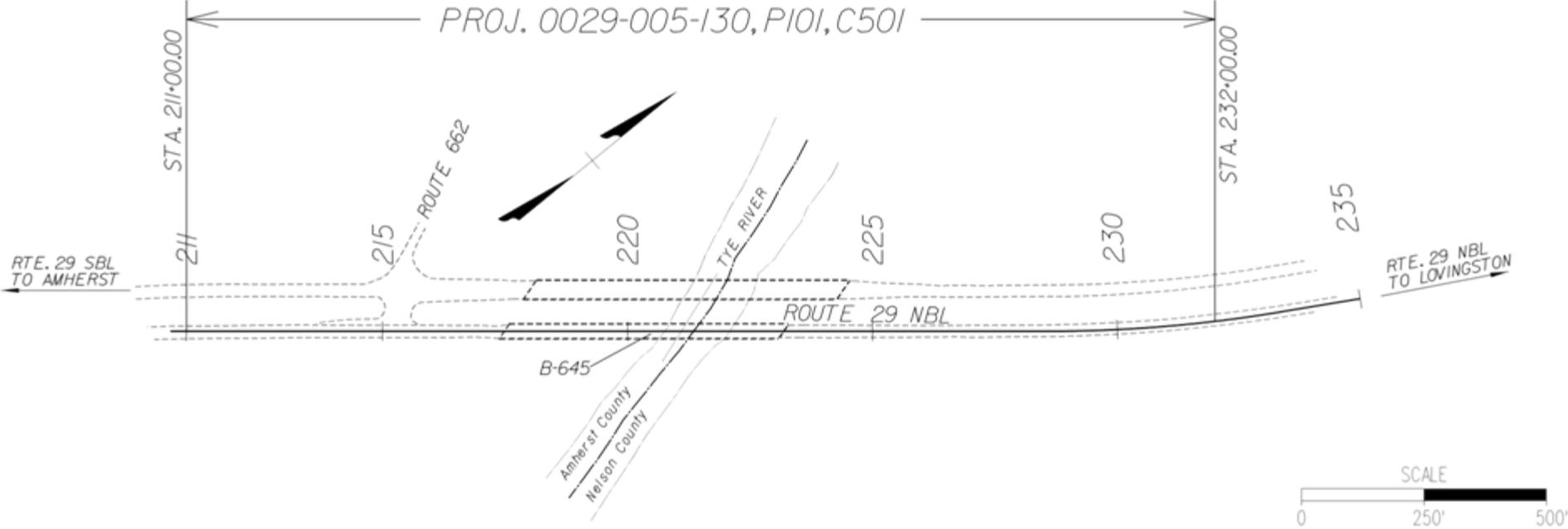
END SECT. B645
STA. 223+60.71



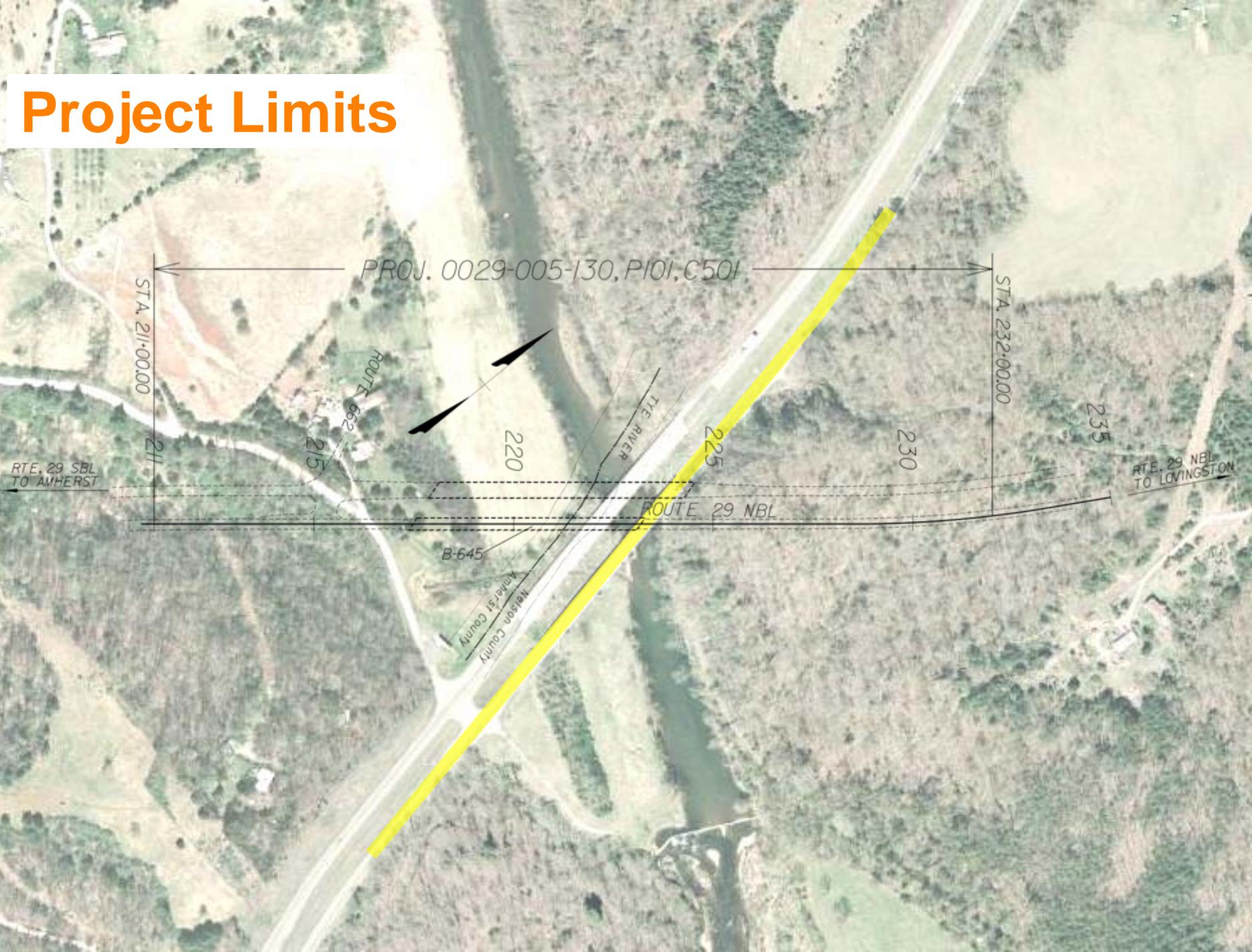
Roadway Design

- **0.4 Mile Long Project.**
- **GS-1 Rural Principle Arterial.**
- **60 MPH Design Speed.**
- **Grade Design Exception.**
 - **For the north end of the project.**
 - **5% Max. in lieu of the 4% required for GS-1.**
- **Pavement Design.**

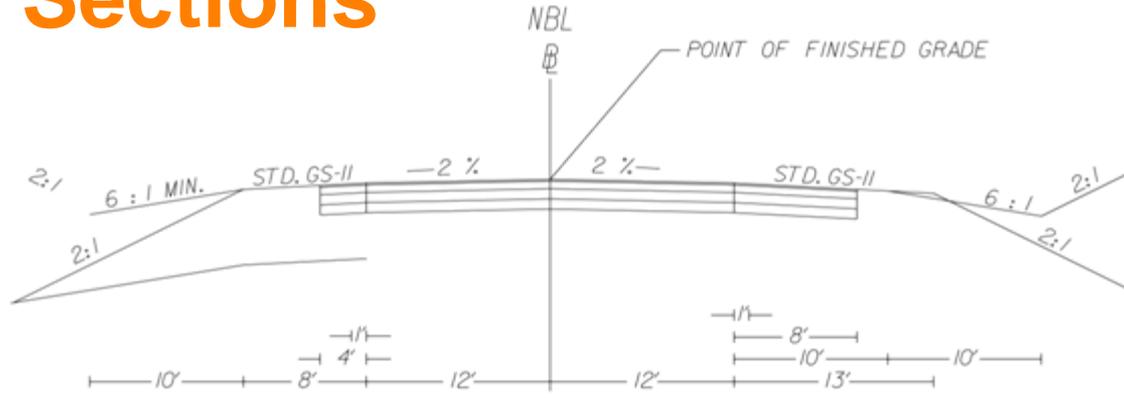
Project Limits



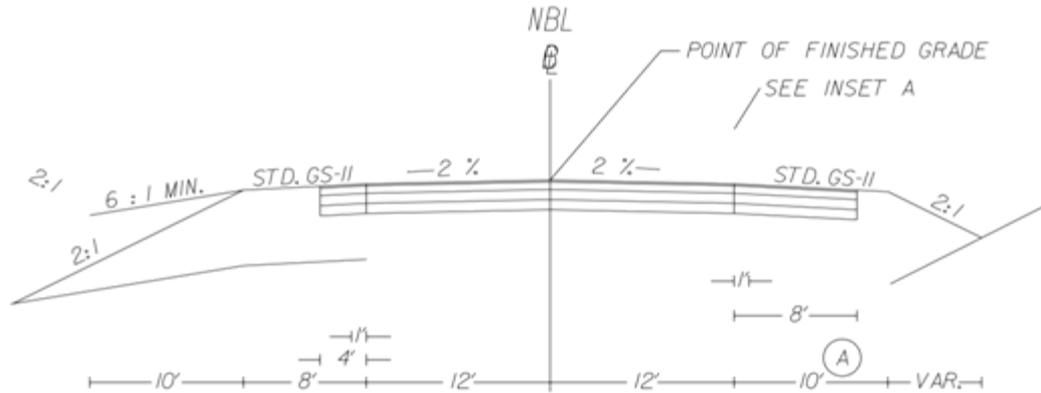
Project Limits



Typical Sections



STATION TO STATION LOCATION
 211+00.00 229+50.00 MAINLINE PVMT.

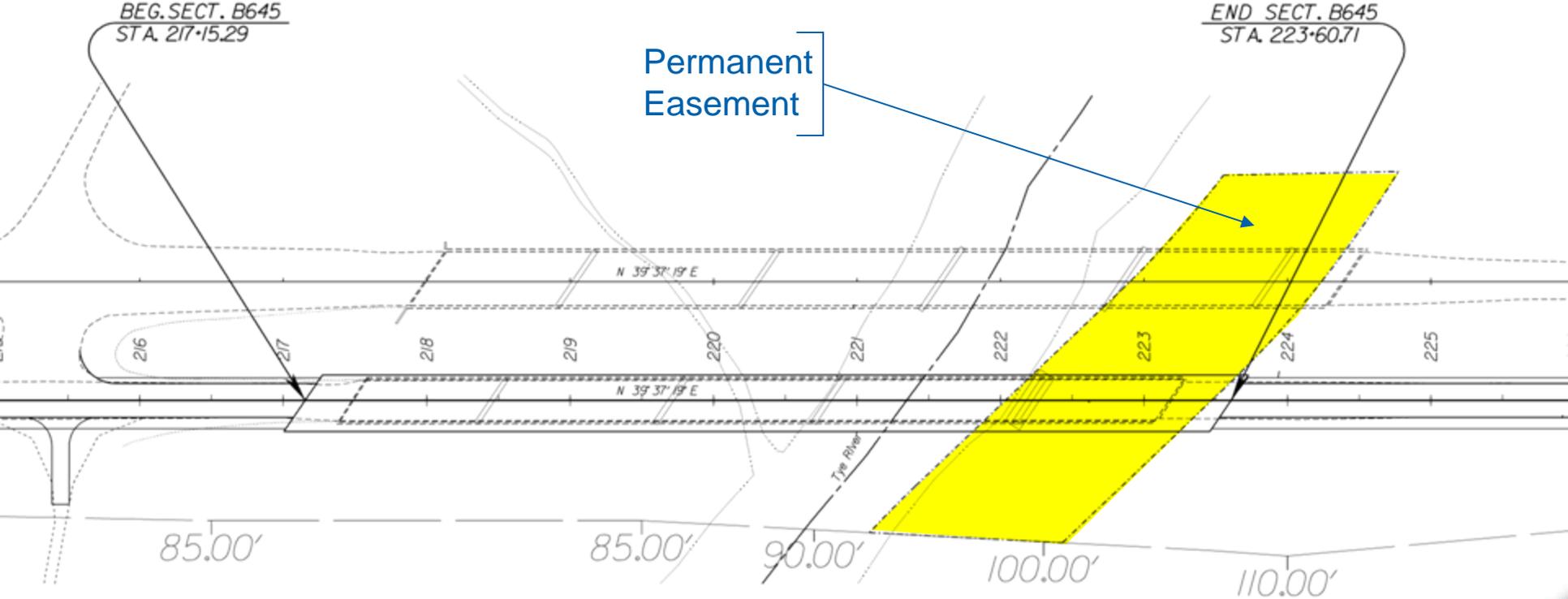


STATION TO STATION LOCATION
 229+50.00 232+00.00 MAINLINE PVMT.

Right of Way

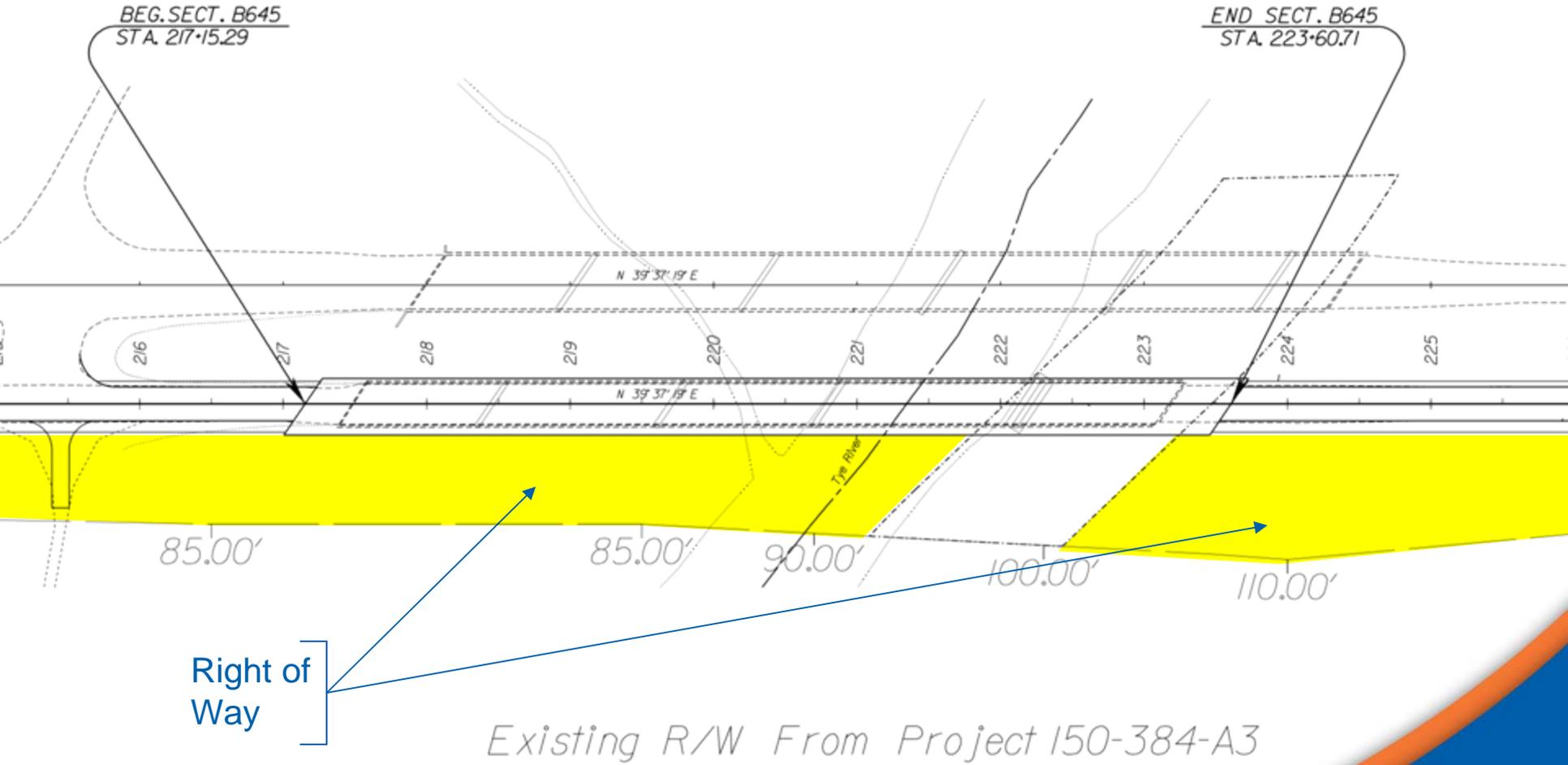
- **No additional right of way required.**
- **Permanent easement for abandoned railway.**
- **Additional easements, to accommodate a unique solution, shall be responsibility of the Design-Builder.**

Permanent Easement



Existing R/W From Project 150-384-A3

Existing Right of Way



Hydrologic and Hydraulic Analysis

- **Responsibility of the Design-Builder.**
- **H&HA and Scour Analysis done in accordance with Current FEMA and VDOT guidelines in the latest edition of the VDOT Drainage Manual.**

Transportation Management Plan

- **Prepared by Design-Builder.**
- **To include temporary detour of the NBL traffic to the SBL during construction.**
- **Min. 12' Traffic Lanes for detour.**

Environmental

- **Green Floater Mussel**

- **Mussel Survey @ Proposed Bridge Site.**
- **Survey must be completed between April 1 and October 31.**
- **If found:**
 - Relocate Mussels.
 - Additional Surveys.
- **Time of Year Restriction (TOYR):**
 - April 15th through June 15th.
 - August 15th through September 30th.
 - Causeways, cofferdams, etc. must be installed outside of TOYR.

Environmental

- **Nesting Migratory Birds**
 - **Migratory Barn Swallow and Cliff Swallow**
 - **If found nesting on bridge:**
 - Shall not be disturbed or displaced.
 - Effective from May 1st through August 31st.
 - **VDOT will take actions to prevent nesting of these birds prior to May 1st.**

Abandoned Railroad Trail

- **Minimum of 10' Horizontal Clearance from centerline of trail to face of substructure or toe of slope.**
- **Accommodate trail access during construction.**

Trail Clearance



RFP Information Package (CD-ROM)

Cost \$50.00

- **Preliminary Design**

- Preliminary Bridge and Road Plans.
- Geopak Files, Digital Terrain Model, Traffic Data.
- Scoping Form.
- Grade Design Exception.

- **Bridge**

- Existing Bridge Plans.
- Existing Bridge Plans of adjacent SBL Bridge.

RFP Information Package (CD-ROM)

Cost \$50.00

- **Materials**
 - Materials Division Memorandum for Materials Acceptance.
- **Environmental**
 - VDOT Permit Determination.
 - PCE, EQ-200, EQ-103.
 - VDOT Water Quality Permit Manual.
- **Special Provisions**

Contract Documents

- **Five Parts:**
- **Part 1 – Instructions for Offerors**
- **Part 2 – Technical Requirements**
- **Part 3 – Lump Sum Agreement**
- **Part 4 – General Terms & Conditions**
- **Part 5 – Amendments to Section 100**

Part 1 – Instructions for Offerors

- **Estimated Contract Value - \$9,000,000**
- **Anticipated Schedule (Section 2.6)**
 - **RFP Questions to VDOT 10/23/09**
 - **VDOT Responses 10/30/09**
 - **Proposal Submission 11/16/09**
 - **Notice of Intent to Award 11/24/09**
 - **CTB Approval 12/17/09**
 - **Notice to Proceed 01/13/10**
 - **Substantial Completion 10/05/12***
 - **Project Completion 12/04/12***

*Offerors proposed early completion date(s) becomes the contractual project completion date(s)

Part 1, continued

Contents of Proposals

- **Letter of Submittal** (Section 4.2)
- **Price Proposal** (Section 4.3)
- **Escrow Proposal Documents** (Section 11.7)
- **Acknowledgement Form C-78** (Section 3.3)

(Submission Date – November 16, 2009)

Part 1, continued

Letter of Submittal

- **Point of Contact**
- **Corporate Structure**
- **Offeror's VDOT Prequalification Certificate**
- **DPOR and SCC Registration**
 - Must comply with the law
 - Practicing or offering to practice
 - Each Office and Key Personnel
 - Office location of each Key Personnel
 - Service not regulated (i.e. real estate appraisal)
- **Letter of Submittal Checklist**

Part 1, continued

Letter of Submittal, continued

Offeror's Team Structure

- Design-Build Project Manager
- Design Manager
- Construction Manager
- Quality Assurance Manager (QAM)
- **Resume Form (Attachment 4.2.8)**
- **Organizational Chart**
- **Independent QA/QC for design and Construction**
 - QAM independent firm not affiliated with construction
 - QA functions independent of QC functions
 - Two independent testing laboratories required
- **Proposal Schedule**

Part 1, continued

Price Proposal (Section 4.3)

- **Lump Sum Amount**
- **All Required Items Listed Must be Provided**
- **Proposal Guaranty (C-24)**
 - Proposal non-responsive if omitted
- **Opened and Read Publicly**
- **Price Proposal Checklist**
- **Responsive and Responsible Offeror submitting the lowest price will be recommended for Award**

Part 2 - Technical Information

- **Project Scope** (Section 1.0)
- **Reference Documents** (Section 2.1)
- **Proposed Bridge** (Section 2.2)
- **Environmental** (Section 2.3)
- **Survey** (Section 2.4)
- **Geotechnical** (Section 2.5)
- **Hydraulics** (Section 2.6)
- **Traffic Control Devices** (Section 2.7)

Part 2 , continued

- **Transportation Management Plan (Section 2.8)**
- **Public Involvement/Relations (Section 2.9)**
- **Utilities (Section 2.10)**
- **QA/QC (Section 2.11)**
- **Field Office (Section 2.12)**
- **Plan Preparation (Section 2.13)**
- **VOSH (Section 2.14)**

Part 3 - Lump Sum Agreement

- **Contract Time** (Article 5)
- **Liquidated Damages** (Article 5.6)
- **No Early Completion Bonus** (Article 5.8)
- **Contract Price** (Article 6)
 - **Asphalt, Fuel and Steel Adjustments**

- **Procedure for Payment** (Article 7)
- **Termination** (Article 8)
- **Schedules** (Article 11.1)
 - **Proposal, Baseline, Updates**

Part 4 - General Conditions

- **Design-Builder Responsibilities** (Article 2)
 - “Kick-Off” meeting
 - Monthly Progress Meetings
- **Scope Validation Period** (Article 2.2.1)
 - 60 days from Date of Commencement
 - Verify and Validate Proposal
 - Identify Errors
 - Notify VDOT in Writing Within Time Period
- **VDOT Responsibilities** (Article 3)
 - Provide timely reviews (21 days)

Part 4, continued

- **Governmental Approvals** (Article 2.6)
 - **No Work Commences Until Approvals Received**
 - **Work Must comply with Approvals**
- **Hazardous Materials** (Article 4)
- **Payment** (Article 6)
 - **20/80**
- **Change Order Process** (Article 9)

Part 5 - Amendments to Specs

Based on Green Book (2007 Specs)

- **Proposal Guaranty** (Section 103)
- **Bonds and Insurance** (Section 103)
- **Value Engineering** (Section 104)
- **Control of Work and Materials** (Section 105)
- **Labor Rates** (Section 107)
- **Prosecution of Work** (Section 108)

QUESTIONS ?

