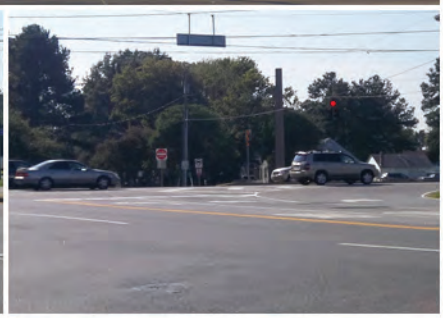
Letter of Submittal and Attachments: VOLUME I



A DESIGN-BUILD PROJECT

Military Highway Continuous Flow Intersection

From: 0.023 Miles South of Lowery Road
To: 0.230 Miles North of Interstate 64
Norfolk, Virginia

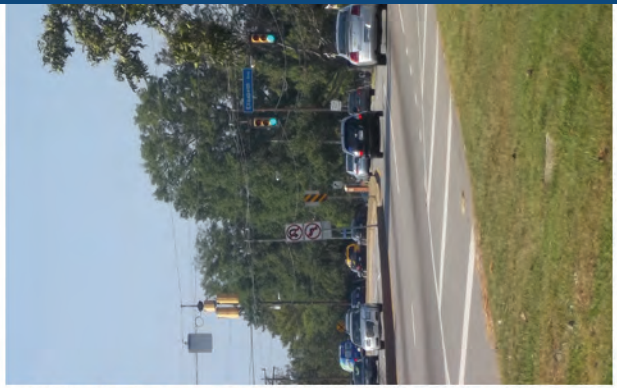
State Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181
Federal Project No.: STP-5A03 (755)
Contract ID Number: C00001765DB81

July 27, 2015

Submitted to: Virginia Department of Transportation

Submitted by: The Lane Construction Corporation

In association with: Parsons Brinckerhoff



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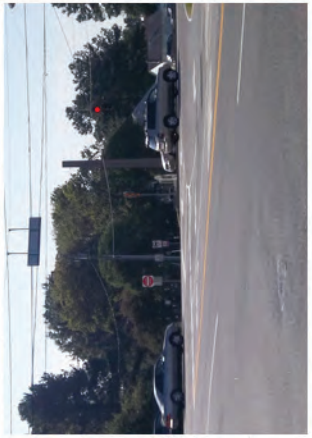

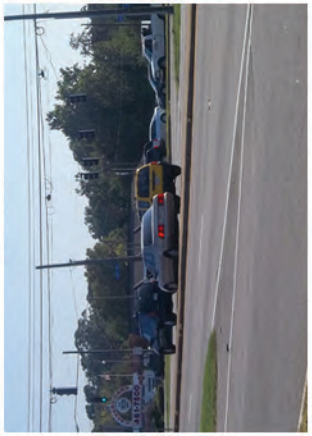

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LANE

July 27, 2015

Mr. Bryan W. Stevenson, P.E.
Alternate Project Delivery Office
Virginia Department of Transportation
1401 East Broad Street
Richmond, Virginia 23219

RE: Military Highway Continuous Flow Intersection
State Project No.: 0013-122-V03, 0165,-122-V04, 0165-122-181
Federal Project No.: STP-5A03 (755)
Contract ID Number: C00001765DB81

Dear Mr. Stevenson:

The Lane Construction Corporation (LANE) is pleased to offer our Letter of Submittal and Attachments for the above referenced project to the Virginia Department of Transportation (VDOT). Our response contains all information requested in the Request for Proposals (RFP) and subsequent Addenda. LANE is teamed with Parsons Brinckerhoff (PB) as the Lead Designer. The LANE Team has assembled committed personnel, with proven delivery of VDOT's requirements to meet the quality, safety, and schedule demands of this Project.

4.1.1 Identification of Legal Entity Who Will Execute the Contract with VDOT: Mr. Robert E. Watt is the authorized representative and Point of Contact for the LANE Team for all matters associated with this project.

The Lane Construction Corporation
14500 Avion Parkway, Suite 200
Chantilly, VA 20151

4.1.2 Offeror's Intent: LANE's intention is to enter into a contract with VDOT for the Project in accordance with the terms of the RFP.

4.1.3 120 Day Declaration: Pursuant to Part 1, Section 8.2, LANE declares that the offer represented by this Proposal will remain in full force and effect for one hundred twenty (120) days after the date of the Letter of Submittal and Attachments are submitted to VDOT.

4.1.4 Identification of the Point of Contact: **Mr. Robert E. Watt** is the authorized representative and Point of Contact for the LANE Team.

The Lane Construction Corporation, Pursuit Manager
Robert E. Watt
14500 Avion Parkway, Suite 200
Chantilly, VA 20151
Tel: (703) 222-5670 Fax: (703) 222-5960
Email: REWatt@laneconstruct.com

4.1.5 Offeror's Principal Officer Information: **Mr. Mark A. Schiller** is a Principal Officer of The Lane Construction Corporation.

Mark A. Schiller, Senior Vice President
14500 Avion Parkway, Suite 200
Chantilly, VA 20151
Tel: (703) 222-5670 Fax: (703) 222-5960
Email: MASchiller@laneconstruct.com

4.1.6 Final Completion Date: In accordance with RFP Section 2.3.1, LANE proposes a final completion date of May 1, 2018.

4.1.7 Executed Proposal Payment Agreement: An executed Proposal Payment Agreement (Attachment 9.3.1) can be found in the Appendix of Volume I.

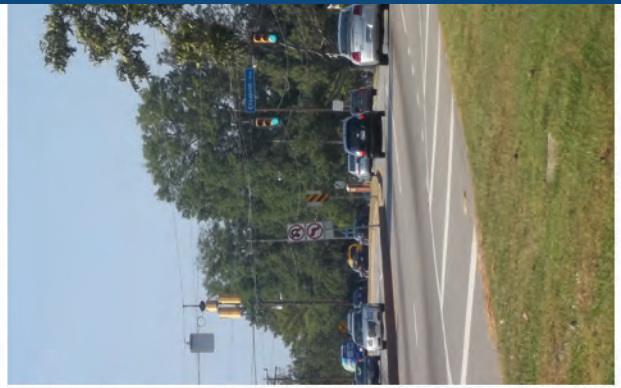
4.1.8 Certification Regarding Debarment Forms: Certifications for Debarment for both Primary and Lower Tier Covered Transactions have been completed and executed for the Offeror and all subconsultants, subcontractors, and other entities as identified as members of the LANE Team. These can be found in the Appendix of Volume I.

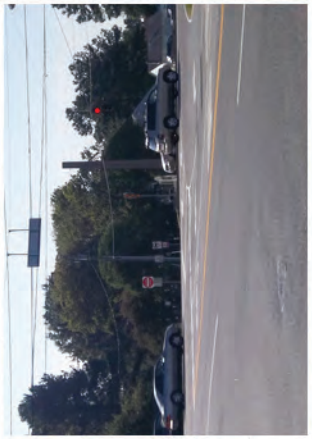
4.1.9 DBE Statement: LANE supports the Disadvantaged Business Enterprise (DBE) program and is committed to meeting the **12%** goal for the design and construction of this Project utilizing Virginia certified DBE companies. LANE will take all necessary steps to ensure that DBE firms have the maximum opportunity to compete for and perform services on this Design-Build contract.

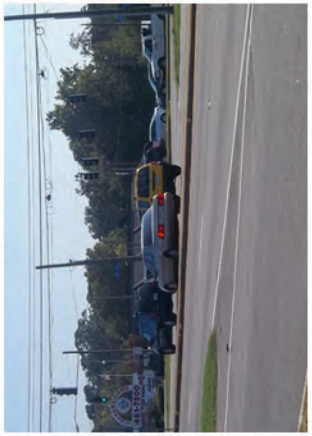
The LANE Team appreciates the opportunity to propose on this critically important project. We look forward to partnering with VDOT to make the Military Highway Continuous Flow Intersection project a landmark success for the citizens of Virginia.

Respectfully submitted,

Robert E. Watt
Pursuit Manager
The Lane Construction Corporation







4.2 | ATTACHMENTS TO THE LETTER OF SUBMITTAL

4.2.1 Confirmation of SOQ Information

LANE confirms all information presented in the Statement of Qualifications (SOQ) remains true and accurate in accordance with Part 1, Section 11.4. As demonstrated in the organizational chart presented on the following page, the Team proposed by LANE, including but not limited to our organizational structure, lead contractor, lead designer, key personnel, and other individuals identified pursuant to Part 1, Section 4.2, will remain intact for the duration of the contract.

Organizational Chart

There are no changes from Section 3.3.2 of the SOQ submitted to VDOT and dated January 29, 2015.

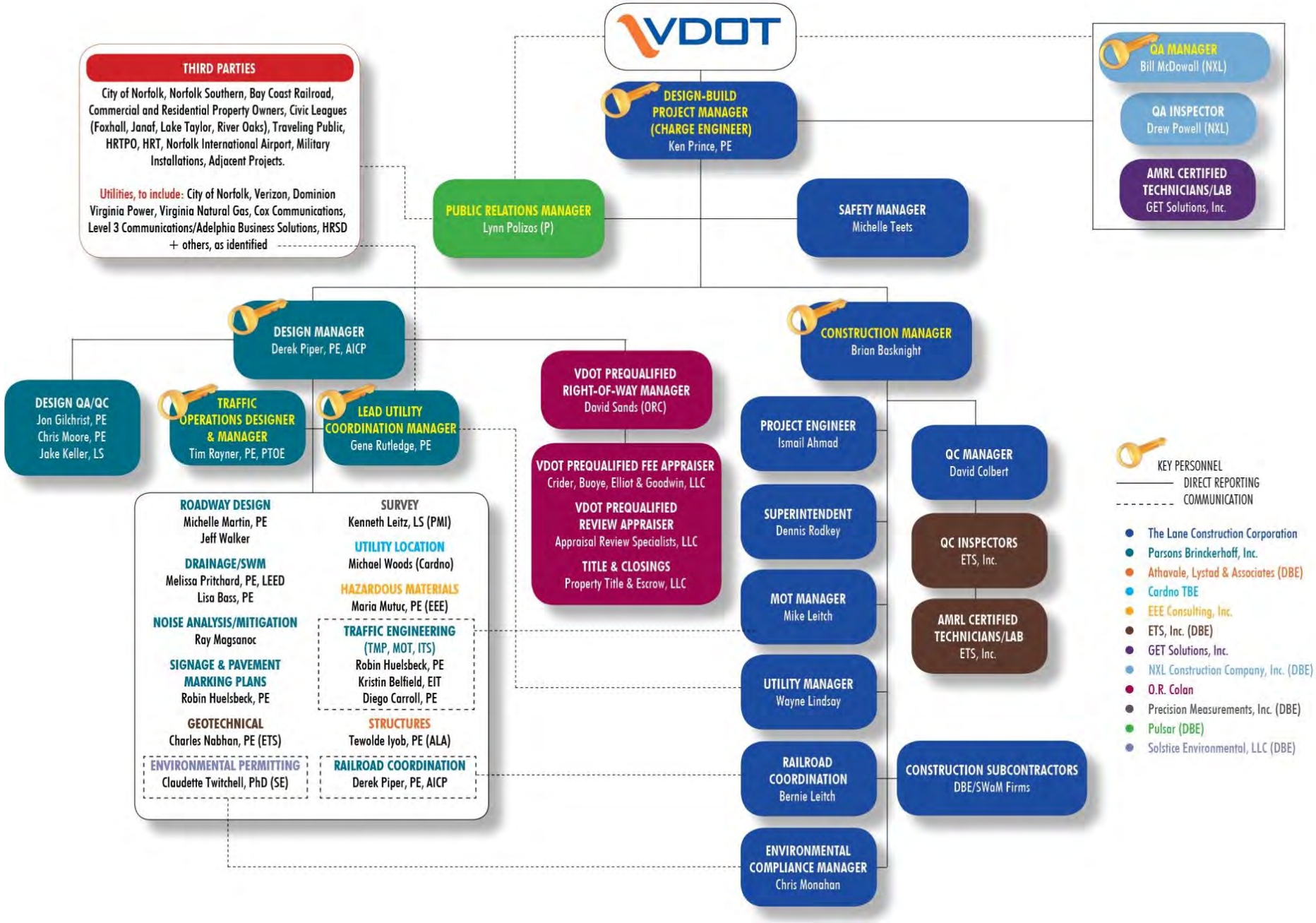
Under the leadership of our Design-Build Manager, Mr. Kenneth K. Prince, PE, the LANE Team is structured to effectively manage and deliver the design and construction of this project. The LANE Team is organized to provide VDOT with a single-source point of contact, responsible for all design and construction activities. Our team organization has a straightforward chain of command, with individual tasks and functional responsibilities clearly identified. This organizational chart identifies key personnel and major functions to be performed for the successful management, design, and construction of the project. No changes have been made to the Offeror's organizational structure, Lead Contractor, Lead Designer, Key Personnel or other individuals identified in the Offeror's SOQ (dated January 29, 2015). Though reporting relationships are rigid, the lines of communication within the team will remain fluid and flexible to meet the requirements of each individual project task. In order to prevent unnecessary project delays, at times it may be prudent for other members within the LANE Team to communicate directly with their counterparts at VDOT. This will be directed and authorized in advance by Mr. Prince and the VDOT Project Manager.

Likewise, there have been no revisions made to the narrative describing the functional relationships among participants for the organizational chart. Please find this narrative below, exactly as it was submitted with our SOQ on January 29, 2015.

Functional Relationships of Key Personnel

Design-Build Project Manager (DBPM), Mr. Ken Prince, PE (LANE) ***will report to VDOT and serves as VDOT's central point of contact.*** He will facilitate communication among team partners, monitor design efforts to proactively eliminate potential constructability issues prior to breaking ground, and delegate resources to deliver the project on time. It will be his responsibility to lead the team to ensure that the design complies with VDOT's Contract Documents. Mr. Prince's management from design through construction will include weekly design and construction meetings to discuss how the team will successfully execute the project. Additionally, he is responsible for construction quality management, contract administration, and coordination of public outreach and public meetings.

▸ **Added Value:** Mr. Prince is currently the DBPM on the adjacent I-64/I-264 Pavement Rehabilitation project in Norfolk. His knowledge and familiarity with the local area and contacts with the City of Norfolk and other local third-party stakeholders will be a benefit to this project.


VDOT
THIRD PARTIES
City of Norfolk, Norfolk Southern, Bay Coast Railroad, Commercial and Residential Property Owners, Civic Leagues (Foxhall, Janaf, Lake Taylor, River Oaks), Traveling Public, HRTPO, HRT, Norfolk International Airport, Military Installations, Adjacent Projects.
Utilities, to include: City of Norfolk, Verizon, Dominion Virginia Power, Virginia Natural Gas, Cox Communications, Level 3 Communications/Adelphia Business Solutions, HRSD + others, as identified
DESIGN-BUILD PROJECT MANAGER (CHARGE ENGINEER)
Ken Prince, PE
QA MANAGER
Bill McDowall (NXL)
QA INSPECTOR
Drew Powell (NXL)
AMRL CERTIFIED TECHNICIANS/LAB
GET Solutions, Inc.
PUBLIC RELATIONS MANAGER
Lynn Polizos (P)
SAFETY MANAGER
Michelle Teets
DESIGN MANAGER
Derek Piper, PE, AICP
CONSTRUCTION MANAGER
Brian Basknight
DESIGN QA/QC
Jon Gilchrist, PE
Chris Moore, PE
Jake Keller, LS
TRAFFIC OPERATIONS DESIGNER & MANAGER
Tim Rayner, PE, PTOE
LEAD UTILITY COORDINATION MANAGER
Gene Rutledge, PE
VDOT PREQUALIFIED RIGHT-OF-WAY MANAGER
David Sands (ORC)
VDOT PREQUALIFIED FEE APPRAISER
Crider, Buoye, Elliot & Goodwin, LLC
VDOT PREQUALIFIED REVIEW APPRAISER
Appraisal Review Specialists, LLC
TITLE & CLOSINGS
Property Title & Escrow, LLC
ROADWAY DESIGN
Michelle Martin, PE
Jeff Walker
DRAINAGE/SWM
Melissa Pritchard, PE, LEED
Lisa Bass, PE
NOISE ANALYSIS/MITIGATION
Ray Magsanoc
SIGNAGE & PAVEMENT MARKING PLANS
Robin Huelsbeck, PE
GEOTECHNICAL
Charles Nabhan, PE (ETS)
ENVIRONMENTAL PERMITTING
Claudette Twitchell, PhD (SE)
SURVEY
Kenneth Leitz, LS (PMI)
UTILITY LOCATION
Michael Woods (Cardno)
HAZARDOUS MATERIALS
Maria Mutuc, PE (EEE)
TRAFFIC ENGINEERING (TMP, MOT, ITS)
Robin Huelsbeck, PE
Kristin Belfield, EIT
Diego Carroll, PE
STRUCTURES
Tewolde Iyob, PE (ALA)
RAILROAD COORDINATION
Derek Piper, PE, AICP
PROJECT ENGINEER
Ismail Ahmad
SUPERINTENDENT
Dennis Rodkey
MOT MANAGER
Mike Leitch
UTILITY MANAGER
Wayne Lindsay
RAILROAD COORDINATION
Bernie Leitch
ENVIRONMENTAL COMPLIANCE MANAGER
Chris Monahan
QC MANAGER
David Colbert
QC INSPECTORS
ETS, Inc.
AMRL CERTIFIED TECHNICIANS/LAB
ETS, Inc.
CONSTRUCTION SUBCONTRACTORS
DBE/SWaM Firms
KEY PERSONNEL
DIRECT REPORTING
COMMUNICATION
The Lane Construction Corporation
Parsons Brinckerhoff, Inc.
Athavale, Lystad & Associates (DBE)
Cardno TBE
EEE Consulting, Inc.
ETS, Inc. (DBE)
GET Solutions, Inc.
NXL Construction Company, Inc. (DBE)
O.R. Colan
Precision Measurements, Inc. (DBE)
Pulsar (DBE)
Solstice Environmental, LLC (DBE)

Quality Assurance Manager (QAM), Mr. Bill McDowall, PE (NXL) ***will report directly to the DBPM on all quality issues.*** Any item of work failing to meet minimum standards will be rejected and corrected immediately. Construction personnel have no authority over QA inspection staff, and issues raised by construction personnel will be resolved by Mr. McDowall and the DBPM. Mr. McDowall will keep VDOT informed on the status of quality of construction and issues/solutions through weekly reports and progress meetings. Mr. McDowall holds the authority to stop work on the job if quality issues warrant. **QA Inspector, Mr. Drew Powell (NXL),** ***will report directly to the QAM***, and will be assigned to the project on a full-time basis for the duration of the project. Mr. Powell ***will report to NXL*** and will perform independent QA testing.

▸ **Added Value:** Mr. McDowall brings to the LANE team 25 years of experience working with VDOT. His prior experience as a VDOT employee will be a valuable asset. His familiarity with the Hampton Roads area through past projects also brings added value.

Design Manager (DM), Mr. Derek Piper, PE, AICP (PB) ***will report directly to the DBPM***. Mr. Piper will maintain close communication with the DBPM and will ensure the project is designed in accordance with the requirements of the Contract Documents. He is responsible for coordinating all design disciplines and ensuring the overall project design is in conformance with project documents; all design disciplines report directly to Mr. Piper. He will provide VDOT with design plans for review and approval to confirm that the design work complies with the requirements of the Contract Documents. Mr. Piper is also responsible for establishing and overseeing the QA/QC program for all design disciplines of the project and communicating with the CM. The design QA/QC will be coordinated by Mr. Piper and will be performed *by staff with local CFI design experience and knowledge of VDOT design and plan preparation. Mr. Piper was part of the design team for the IRRK CFI project currently being developed in Virginia Beach.*

▸ **Added Value:** Mr. Piper is a seasoned civil/roadway Design Manager with 30 years of progressively responsible design experience, including 19 years managing the delivery of complex transportation design projects. Mr. Piper has a broad range of experience in all facets of roadway design development including geometric design, utility coordination and relocation design, environmental permitting, and stormwater design throughout the Hampton Roads region. Mr. Piper has established working relationships with VDOT and City of Norfolk staff through his role on the I-264/MLK project and has provided railroad coordination for several recent and on-going projects.

Construction Manager, Mr. Brian Basnight (LANE) ***will report directly to the DBPM and will be on-site full-time for the duration of the project.*** His daily duties include: safety, coordination of all project personnel including subcontractors, and execution of the construction QC program. He holds ultimate responsibility for managing adherence to the construction schedule with his staff engineers and coordinating daily with the adjacent projects underway. He will coordinate daily meetings with the QAM, QA Lead Inspector, and QC Manager to discuss all ongoing construction activities. He will also review all construction QC reports and lab results. Anything that is not meeting standards will be addressed immediately with corrective actions mandated that same day. Mr. Basnight is currently working on the adjacent I-64/I-264 Pavement Rehabilitation project and will be available prior to the start of construction. Mr. Basnight holds a DEQ RLD Certification and a VDOT ESCCC.

▸ **Added Value:** Mr. Basnight has been a Construction Manager on numerous projects in the Hamptons Roads area including the current I-64/I-264 Pavement Rehabilitation project. He has been a resident of Norfolk for several years. His knowledge of the area will bring a tremendous amount of value to this project.

Traffic Operations Designer and Manager, Mr. Tim Rayner, PE, PTOE (PB) ***will report directly to the DM.*** Mr. Rayner has 17 years of experience in the implementation of traffic and transportation planning and design services, including: CFI; transportation system congestion analysis; system performance measurement; micro/macro-modeling; analysis of traffic impacts; travel demand forecasting; multimodal

interactions; operational/safety analysis; access management; and project planning and funding. Mr. Rayner has experience with the following software: CORSIM (Traffic Software Integration System), Highway Capacity Software 2010, Synchro, VISSIM, AutoCad, ArcMap, and Cube Voyager.

▸ **Added Value:** Mr. Rayner specializes in and is a recognized expert in the design of non-traditional intersection design. He is currently managing the design of the IRRK Continuous Flow Intersection project, one of the first within the Commonwealth.

Lead Utility Coordination Manager, Mr. Gene Rutledge, PE (PB) ***will report directly to the DM.*** Mr. Rutledge has over 15 years of experience, focusing specifically on private and public utility relocations, design and coordination efforts for transportation projects. Mr. Rutledge offers a unique combination of utility relocation design as well as utility coordination experience during design and construction. Mr. Rutledge excels at identifying owner needs and tailoring deliverables accordingly.

▸ **Added Value:** Mr. Rutledge has extensive experience with utility coordination/utility design for projects throughout Hampton Roads. As such, he has established working relationships with public and private utility providers in the region—many of which will be involved in the Military Highway CFI project.

Other Functional Relationships

The LANE team also includes the following recognized specialists whom we deem critical to this project, albeit non-key personnel, as defined by the RFQ. Their qualifications are provided below.

Other pertinent design disciplines that will report directly to Mr. Piper, PE, AICP (DM) include:	
Michelle Martin, PE **Roadway Design**	**11 years experience** in roadway design, including CFI design and roadway widening. Experience with VDOT and City of Norfolk. Currently working on the IRRK project in Virginia Beach, one of the Commonwealth's first CFI projects.
Melissa Pritchard, PE **Drainage/SWM**	**7 years experience** specializing in stormwater hydraulic and hydrological analyses, water quality and watershed management, low impact development design, BMPs, and stormwater systems analysis, design, construction and permitting.
Ray Magsanoc **Noise Analysis/ Mitigation**	**18 years experience** in noise analysis and noise abatement for roadway design projects. He has performed a wide variety of tasks, including assisting with public information efforts. Proficient with FHWA TNM 2.5 and previous versions 1.1 and 2.1, FHWA STAMINA, and OPTIMA. Experienced using various models of Quest, Bruel & Kajer, and Larson Davis sound level meters and calibrators.
Tewolde Iyob, PE **Structures**	**37 years experience** specializing in the design and rehabilitation of highway structures and bridges. Extensively familiar with the standards and regulations of VDOT and FHWA, as well as AASHTO LRFD.
Claudette Twitchell **Environmental Permitting**	**22 years experience** in numerous watershed level and site-specific natural resource investigations as they pertain to the construction of transportation infrastructure.
Charles Nabhan, PE **Geotechnical**	**25 years experience**, including design and analysis of shallow and deep foundation systems for various size roadways, bridges and earth retaining structures. QC experience includes field and laboratory testing of soil and concrete; subgrade and foundation soil inspection; and monitoring of test pile installation and load testing.

Other pertinent construction disciplines that will report directly to Mr. Basnight (CM) include:	
Dennis Rodkey **Superintendent**	**33 years experience** including roadway Superintendent on numerous VDOT projects. Experienced with roadway/intersection construction.

Wayne Lindsay **Utility Manager**	**30 years experience** coordinating with utility companies, ensuring compliance of all SCC regulations, and overseeing utility relocations and related MOT.
Mike Leitch **MOT Manager**	**9 years experience** ensuring proper work zones are established at each and every phase of construction. Will oversee adherence to the TMP to provide proper operations and flow of traffic throughout the limits of construction.
Bernie Leitch **Railroad Coordinator**	**40 years experience**, including 13 years as a Washington Metropolitan Area Transit Authority (WMATA) Access Manager and Construction Inspector. Recently provided railroad coordination with Norfolk Southern on the I-495 Express Lanes project. Will be responsible for daily interface and project railroad coordination, including compliance with Contract Documents.
Chris Monahan **Environmental Manager**	**12 years experience** coordinating with environmental permitting personnel to ensure all compliance requirements are met. Currently holds a DEQ RLD Certification and a VDOT ESCCC.

4.2.2 Conceptual Roadway Plans

The Conceptual Roadway Plans showing the general Project layout are included in Volume II. They include 11"x17" copies of (a) plan view indicating, among other items, the number of lanes specified in the RFP Information Package, and (b) typical sections of the proposed improvements to Military Highway, Princess Anne Road, Northampton Boulevard and Robin Hood Road. The Conceptual Roadway Plans meet the requirements of the Design Criteria Table (Attachment 2.2 of Part 2) and indicate that the limits of permanent construction improvements are within the existing/proposed right-of- way limits shown in the RFP Conceptual Plans and identify items 4.2.2.1-4.2.2.7.

LANE Team Approach to Handling/Addressing the 30" Water Line

Per phone conversation with Mr. Bryan Stevenson on July 15, 2015, the LANE Team was requested to present our position and approach to the 30" concrete domestic water line in vicinity of I-64 Bridge:

The LANE Team has advised VDOT through several communications including discussions at our proprietary meeting held May 27, 2015 that we believe there may be a conflict with this major water transmission main. Our due diligence has indicated that there may be less than 2' of cover from the proposed subgrade elevation for the segment of this facility located under the existing Military Highway pavement; however, the test hole data included in the RFP Information package is insufficient in determining whether a conflict exists and the extent of the conflict. Reconstructing Military Highway over this 1942 era concrete pipe could put the facility as well as end users of the City of Norfolk's water supply at great risk. If the conflict exists, it will be a challenge from both a design and construction perspective to reconstruct this line as VDOT is requiring a 17-inch thick pavement matrix and a lowering of the final grade under the I-64 Bridge. There will be both cost and schedule impacts with this relocation and will almost surely have seasonal limitations placed by the City. Per our discussions at the Proprietary Meeting, it would be appropriate for VDOT to issue some type of pre-proposal direction on how this risk should be handled to all shortlisted teams, thereby "leveling the playing field", something VDOT has stated as important on this procurement several times.

4.2.3 Proposal Schedule and Narrative

The LANE Team has thoroughly evaluated the RFP documents, performed numerous site visits, attended the pre-proposal meeting, participated in proprietary meeting discussions, and held numerous working sessions amongst our design and construction teams in order to plan the most safe and efficient method for completing this important project. Through this progression, we have developed a solution to deliver the Project as outlined on or ahead of schedule. This narrative explains how we will deliver a highly successful Project to VDOT and to the satisfaction of all stakeholders.

4.2.3.1 Proposal Schedule

Per RFP Document - Section 4.2.3, the LANE Team is submitting a Proposal Schedule for the Project. This Critical Path Method (CPM) schedule outlines the LANE Team's proposed plan to accomplish the Work; and it presents the LANE Team's overall sequence of work, time duration for each work task, and the major deliverables required to complete the Work. This Proposal Schedule is broken down into major phases of the Project using the hierarchical Work Breakdown Structure, and it clearly shows the anticipated Critical Path, the review responsibilities of the Department, FHWA, and other regulatory agencies, as well as the work to be performed by the LANE Team, its suppliers and subcontractors. The Proposal Schedule is located at the end of this section.

4.2.3.2 Proposal Schedule Narrative

The LANE Team has developed a Proposal Schedule and associated narrative that describes our overall plan and phasing in order to execute the Work per the requirements stated in the RFP. The document narrates the overall sequencing of Project, the Critical Path, as well as other key assumptions on which the Proposal is based.

KEY MILESTONES

The LANE Team is committed to a final completion date of May 1, 2018. The table below identifies Key Milestone dates, which in order to be met, will require coordination not only between the Design Build Team and VDOT but also other reviewing agencies (City of Norfolk). Post Project award, the LANE Team will utilize our local resources and experience to potentially refine and improve the schedule through our seasoned design-build approach.

Key Milestone	Milestone Date
Notice of Intent to Award	August 18, 2015
CTB Approval / Notice of Award	September 16, 2015
Design-Build Contract Execution	October 7, 2015
Notice to Proceed	October 13, 2015
Scope Validation Period Complete	February 9, 2016
Start of Construction	April 19, 2016
Early Completion / "No Excuse" Incentive	March 16, 2018
Final Completion Date	May 1, 2018

Work Breakdown Structure (WBS)

The WBS is a multi-level, hierarchical arrangement of the work to be performed on the Project. The LANE Team has developed the WBS to define the major phases of the Project by Project Element and type of work. The type of work has been broken down by Areas and respective components such as Milestones, Project Management, Scope Validation, Environmental/Permitting, ROW, Design, Public Involvement, Utility Relocation, and Construction.

The WBS areas for the Project have been developed as a collaborative effort between the design and construction teams by evaluating the Project as a whole, including type of work within the corridor, in addition to design considerations and management of the construction effort.

WBS Code	WBS Name
VDOT-755	Military CFI Proposal Schedule
VDOT-755.A	Admin
VDOT-755.D	Design
VDOT-755.D.1	Public Relationship
VDOT-755.D.4	Environmental Services
VDOT-755.D.4.4.4	Noise Mitigation
VDOT-755.D.5	Survey
VDOT-755.D.6	Geotechnical Services
VDOT-755.D.7	Area 1 Design (Lowery to Box Culvert)
VDOT-755.D.7.7.1	ESC, Drainage & SWM
VDOT-755.D.7.7.2	MOT/SOC
VDOT-755.D.7.7.3	Right of Way Plans
VDOT-755.D.7.7.4	Utility Relocation Plans
VDOT-755.D.7.7.5	Roadway Design
VDOT-755.D.7.7.6	Signal Design
VDOT-755.D.7.7.7	Signing & Marking Design
VDOT-755.D.8	Area 2 Design (Railroad Crossing to Robin hood)
VDOT-755.D.8.8.1	ESC, Drainage & SWM
VDOT-755.D.8.8.2	MOT/SOC
VDOT-755.D.8.8.3	Right of Way Plans
VDOT-755.D.8.8.4	Utility Relocation Plans
VDOT-755.D.8.8.5	Roadway Design
VDOT-755.D.8.8.6	Signal Design
VDOT-755.D.8.8.7	Signing & Marking Design
VDOT-755.D.9	Area 3 Design (Box Culvert to Railroad Crossing)
VDOT-755.D.9.9.1	ESC, Drainage & SWM
VDOT-755.D.9.9.2	MOT/SOC
VDOT-755.D.9.9.3	Right of Way Plans
VDOT-755.D.9.9.4	Utility Relocation Plans
VDOT-755.D.9.9.5	Roadway Design
VDOT-755.D.9.9.6	Signal Design
VDOT-755.D.9.9.7	Signing & Marking Design
VDOT-755.D.10	Box Culvert Design
VDOT-755.D.11	Landscape Design
VDOT-755.D.12	Military Highway Right of Way Acquisition
VDOT-755.P	Procurement
VDOT-755.C	Construction
VDOT-755.C.1	Area 1 - Sta 96+94 to 127+00
VDOT-755.C.1.A	Stage 1A
VDOT-755.C.1.B	Stage 1B
VDOT-755.C.1.C	Stage 1C
VDOT-755.C.1A	Area 1A - Box Culvert & Surcharge Area
VDOT-755.C.1A.1	Box Culvert - Stage 1 East
VDOT-755.C.1A.1.1	Roadway
VDOT-755.C.1A.4	Box Culvert - Stage 2 West
VDOT-755.C.1A.4.1	Roadway
VDOT-755.C.2	Area 2 - Sta 154+00 to 178+60
VDOT-755.C.2.A	Stage 2A
VDOT-755.C.2.A.1	Robin Hood Rd
VDOT-755.C.2.B	Stage 2B
VDOT-755.C.2.B.1	Robin Hood Rd
VDOT-755.C.2.D	Stage 2D
VDOT-755.C.2.E	Stage 2E
VDOT-755.C.2.F	Stage 2F
VDOT-755.C.2.G	Stage 2G
VDOT-755.C.2.H	Stage 2H
VDOT-755.C.3	Area 3 - Sta 127+00 to 154+00
VDOT-755.C.3.A	Stage 3A
VDOT-755.C.3.A.2	Princess Ann Rd / Northampton Blvd
VDOT-755.C.3.B	Stage 3B
VDOT-755.C.3.B.2	Princess Ann Rd / Northampton Blvd
VDOT-755.C.3.C	Stage 3C

Levels 2, 3, and 4 of the WBS hierarchy includes but is not limited to the following items for the respective Project components:

- **Project Management:** Includes the contract milestones, the start and completion milestones of major project components, and the monitoring of project durations.
- **Design:** Includes scope validation, Final Design Development, QA/QC review and VDOT review and approval of design submittals.
- **ROW:** Details the acquisition process for the ROW required including title research, appraisals, offers, and negotiations.
- **Environmental and Permitting:** Comprises the activities and durations required to obtain the necessary environmental permits such as: wetlands/stream impacts permitting, VSMP and noise evaluations.
- **Utility Relocation:** Includes the activities for UFI meetings, preparation of preliminary relocations for Public Utilities, utility relocation design by utility owner (private utilities), VDOT/City of Norfolk submittal approval and relocation of utilities for construction.
- **Construction:** Includes all the components of the roadway and box culvert construction, including but not limited to: MOT, erosion & sediment controls, QA/QC, stormwater management, pavement and markings, signage, signals, drainage, lighting, retaining walls, pier protection and other roadway improvements.

CALENDARS

The LANE Team uses five (5) different calendars to represent a variety of work scenarios:

- **"7 Days"** – Based on seven days per week and is used for review periods and milestones.
- **"5 Days with Holiday"** – Based on five working days per week and includes holiday restrictions. Used for design activities and work not impacted by adverse weather.
- **"5 Days with Weather and Holiday"** – Based on five working days per week, holiday restrictions, and anticipated weather days. Used for construction activities.
- **"5 Days Paving with Holiday"** – Based on the 5-Day Typical with non-working periods from December through February.
- **"5 Days Final Paving with Holiday"**– Based on the 5-Day Typical with non-working periods from November through March.

For weather analysis, the LANE Team has reviewed the weather data (April 2010 to March 2015) provided by NOAA observation center at Norfolk, VA (http://www.weather.gov/climate/index.php?wfo=akq). Using on 0.1 inch of participation per day as the threshold for weather impact, and taking into consideration of weekends, the LANE Team are taking into account the following number of weather days each month:

Month	Anticipated Weather Days
Jan	4
Feb	5
Mar	5
Apr	3
May	4
Jun	4
Jul	5
Aug	5
Sep	4
Oct	4
Nov	3
Dec	4

The LANE Team will observe the following holidays between 2015 and 2018.

Holiday	*2015*	*2016*	*2017*	*2018*
New Year	1/1/2015	1/1/2016	1/2/2017	1/1/2018
Easter	4/6/2015	3/28/2016	4/17/2017	4/2/2018
Memorial Day	5/25/2015	5/30/2016	5/29/2017	5/28/2018
4th July	7/3/2015	7/4/2016	7/4/2017	7/4/2018
Labor Day	9/7/2015	9/5/2016	9/4/2017	9/3/2018
Thanksgiving 1	11/26/2015	11/24/2016	11/23/2017	11/22/2018
Thanksgiving 2	11/27/2015	11/25/2016	11/24/2017	11/23/2018
Christmas	12/25/2015	12/26/2016	12/25/2017	12/25/2018

Activity Identification

The LANE Team is proposing a smart activity identification system in the Level II Master Schedule, in which a unique alphanumeric is utilized. Each activity identification is broken down into four (4) parts identifying the Phase of Work, Work Area, Sub-Location, and Unique Identifier, which is described in detail below:

As an example is C 100 B 2680.

Phase of work — Work Area — Sub-Location — Unique Identifier

A. Project Phase of Work – The first digit in the Activity ID pertains to the phase of the project with the abbreviation and orders as follows:
   - A = Administration / Project Management
   - D = Design
   - C = Construction
B. Work Area – The 2nd to 4th digit in the Activity ID pertains to the work area of the project with the abbreviation and orders as follows:
   - 000 = Project Wide
   - 100 = Area 1 and 1A – Military Highway - S. Terminus to Sta. 127+50
   - 200 = Area 2 – Military Highway & I-64 Ramps – RR Crossing to N. Terminus
   - 201 = Area 2 – Robin Hood Road
   - 300 = Area 3 – Military Highway – 127+50 to RR Crossing
   - 301 = Area 3 – Princess Ann Road / Northampton Road
C. Sub-Location – The 5th digit in the Activity ID pertains to the Stage of Work within a work area of the project with the abbreviation and orders as follows:
   - - = Area Wide
   - A = Stage A
   - B = Stage B, etc…
D. Unique Identifier - The last four digits in the activity identification structure are numeric increment starting with 1000, and incremented in steps of 10. This is done to leave ample room between activities so that additional activities may be inserted as necessary.

Plan and Strategy

The LANE Team has developed a comprehensive plan to complete the Military Highway CFI Project in a safe, timely and professional manner. Our goal is to minimize the number of construction stages for Military Highway and Princess Ann Road/Northampton Blvd intersection. This will reduce the overall duration of

construction, diminish interruptions and delays to the travelling public and provide a safer work zone which results in better quality and economy to VDOT.

DESIGN

Immediately following Notice to Proceed (NTP), the LANE Team will begin the field surveys and investigations necessary for design of the project. Survey notifications will be distributed to adjacent properties, and a complete design level survey will be performed. Utility designations and test pits will be completed, and geotechnical investigations and analyses will be initiated.

As the initial priority of design, the LANE Team will develop the plans for Right of Way and ESC/Drainage/ SWM. Design plans and supporting design calculations with appropriate design QA/QC checklists will be provided to VDOT for review (for reference, when stating "submit to VDOT for review", we understand that the City of Norfolk will also be reviewing most or all design submittals and FHWA will be reviewing a portion of the design as well). The design team will resolve any review comments, and request Notice to Commence Right of Way Acquisition and General Permit, respectively. These milestones represent hold points in the project schedule.

Construction Plans will be developed into logical work packages to allow for approvals and authorizations to be obtained for early construction stages while the design is finalized in other areas. For each work package, plans will be submitted to VDOT following completion of our internal Design QA/QC process, comments will be resolved, and VDOT approval will be obtained. Following VDOT approval of each work package, Released for Construction (RFC) Plans will be issued to the field for construction. The Notice to Commence Construction represents a hold point in the project schedule.

ENVIRONMENTAL AND PERMITTING

Our project schedule includes all necessary tasks required to obtain the environmental permits for the project construction. In addition to the environmental permits, the LANE Team will obtain all necessary permits including, but not limited to, VSMP and VDOT construction permits. All permitted construction activities will be a hold point to ensure no work is performed without the appropriate permits in place.

ROW ACQUISITION

Right of way ("ROW") acquisition will be performed in accordance with VDOT requirements and the RFP. The initiation of the Right of Way Acquisition phase is dependent on our team obtaining Notice to Commence Right of Way Acquisition from VDOT. Our project schedule reflects the necessary durations needed to perform all Right of Way Acquisition tasks including Title Reports, Appraisals, Appraisal Reviews, Submittal of Offers, Negotiations, and Settlement/Closing. The LANE Team has minimized schedule risk due to right of way acquisition utilizing the following approaches:

- Preparing our construction phasing in a manner that minimizes the reliance of early construction stages on right of way acquisition.
- Conformance to RFP requirements for the alignment and geometry of the roadway. This will also minimize overall ROW acquisitions.

UTILITY RELOCATIONS

The project schedule incorporates all utility relocation activities necessary to clear existing utilities from the work areas. Utility related activities include utility designation and location, UFI meetings, utility plan and estimate preparation by utility owners, review and approval of plan and estimates, authorization to relocate, and the relocation of utilities by Design-Builder or utility owners, dependent upon prior rights status. Schedule risks due to utility relocation has been minimized by:

1) Design approach which minimizes utility conflicts.
2) Sequence of construction around potential conflicts we have identified.

PUBLIC RELATIONS

Public Involvement activities will be performed as required in the contract documents and relevant tasks are included in our proposal schedule. The activities included in our proposal schedule consist of the following:

- Public Comment on sound barriers evaluated in the Final NADR
- Development of Public Information and Communications Plans (PICP)
- ROW Acquisitions duration based on RFP Technical Requirement Section 2.12.
- LANE will meet or exceed the Public Involvement / Relation requirements per RFP Technical Requirement Section 2.11.

QA/QC INSPECTION AND TESTING

QA/QC activities will be performed as required in the contract documents and relevant tasks are included in our proposal schedule. The activities included in our proposal schedule consist of the following:

- QA/QC Plan Submittal
- QA/QC Plan Presentation
- QA/QC review of design packages
- Hold Points
- VDOT Inspections are taken into consideration for estimating the duration of construction operations

CONSTRUCTION

The LANE Team's overall sequencing and phasing of construction on which this schedule is based, has been developed to optimize construction efficiency and ultimately, to facilitate a timely final completion of the project.

The LANE Team has divided the Project into four (4) areas. The areas are largely similar to the three (3) VDOT UPC segment areas with the exception of area 1A which is the area in the vicinity of the box culvert. This area is estimated to be approximately 600 LF along both sides of existing Military Highway and will require placing a surcharge and wick drains to improve the ground conditions and reduce expected settlements. The four (4) areas of the project are:

- **Area 1** - Military Highway from station 96+64 (southern terminus) to approximately station 121+00. It also includes all the intersections within this portion of the roadway.
- **Area 1A** – Begins at approximately station 121+00 and extends to approximately 127+50. This area requires ground improvements and includes the construction of the new box culvert and stream re-alignment.
- **Area 2** – This area begins at approximately the Norfolk Southern RR crossing and extends to the Northern terminus of the project at station 178+60.63 and also includes all work on Robin Hood Rd.
- **Area 3** – This area extends from the Northern terminus of area 1A (127+50) and extends to the Norfolk Southern RR crossing.

SEQUENCE OF CONSTRUCTION

The Procurement of the General Permit is the hold point for the Start of Construction. The procurement of the ROW parcels controls the start of utility relocation operations in Areas 1, 1A and 2, and the start of construction for Area 3. For the purpose of the proposal schedule, 1 activity has been created to represent the procurement of parcels in each area.

For **Area 1**, construction is presently phased into three (3) work stages:

> **Stage 1A** – Construct the west side widening of Military Highway. Traffic will shift east while maintaining at least 2 lanes in each direction, to allow for construction of the southbound lanes of the new roadway.

Stage 1B – Construct the east side widening of Military Highway. Traffic will shift west while maintaining at least 2 lanes in each direction.

Stage 1C – Demolish and construct the new profile of Military Highway over the existing roadway alignment. Includes final surface paving later in the project and 2 lanes in each direction will be maintained at all times.

For **Area 1A** construction, the work is sub-divided into two (2) "main" phases for construction of the new box culvert and associated Military Highway widening. Based on the geotechnical data provided by the RFP documents, the LANE Team anticipates significant settlement in the embankment area for the proposed roadway widening and also the portions of the new box culvert outside the existing roadway footprint. There are several items of work within this area that are "off-line" meaning they are outside the active roadway. In order to mitigate this issue, the LANE Team is proposing to utilize surcharging and wick drains to pre-compress the soils and reduce the post construction settlement to within prescribed parameters. The schedule predecessors to this work are obtaining the proper permits and having VNG relocate their gas line(s). The LANE Team will also install pile supported temporary drainage pipes on both ends of the existing box culvert to accommodate temporary traffic shifts during the new RCB construction. Once the new RCB is built, the temporary pipes will be removed and embankment built on the pile supported platform. The East end of the RCB will be constructed first, then the West end.

For **Area 2** construction, the work is sub-divided into seven stages. The scope of work includes the widening and reconstruction of Military Highway and Robin Hood Road, and partial construction of the new on-ramp and off-ramp of I-64. It also includes the widening of both roadways under the I-64 bridges and associated retaining walls.

Stage 2A – Construct the new I-64 off-ramp, and widening of Robin Hood Road eastbound traffic. The LANE Team will construct a temporary pavement for the I-64 off-ramp, and shift traffic onto it. Then, the LANE Team will construct the new I-64 off ramp. The LANE Team will construct the widening of Robin Hood Road for eastbound traffic. Finally, the LANE Team will also perform the widening of Military Highway from the I-64 Bridge to Robin Hood Road.

Stage 2B – Construct the reminder of I-64 off-ramp, and the widening of Robin Hood Road westbound traffic. The LANE Team will shift I-64 off-ramp traffic onto its permanent alignment. Then, the LANE Team will remove the temporary pavement and construct the reminder of the I-64 off-ramp. Meanwhile, the LANE Team will concurrently construct the widening of Robin Hood Road westbound traffic. The LANE Team will also perform the widening the Military Highway from Robin Hood Road to the north terminus of the Project. Finally, the LANE Team will mill-and-overlay the intersection of Military Highway and Robin Hood Road.

Stage 2D – Widening of northbound Military Highway from railway crossing to I-64 on-ramp. The LANE Team will also construct temporary pavement for the I-64 on-ramp, and shift traffic onto it. Then the Project Team will construct the new I-64 on-ramp, and the widening of Military Highway. The LANE Team will also construct both the retaining wall, NB and SB pier protection barrier walls on the outside lanes of Military Highway underneath the I-64 bridge crossing. The Stage 2D will be constructed concurrently with Stage 2A and 2B.

Stage 2E - Construct the inside lanes of Military Highway traffic from railway crossing to Robin Hood Road. Traffic will maintain at least 2 lanes in each direction, while the LANE Team is constructing the inside lanes of the Military Highway. The LANE Team will install temporary paving at the proposed median locations for subsequent construction traffic patterns. The LANE Team will also construct the inside lanes pier protection barrier walls on Military Highway underneath the I-64 bridge crossing.

Stage 2F – Construct the reminder of Military Highway northbound traffic from railway crossing to the north terminus. The LANE Team will reconstruct the NB roadway over the existing alignment.

Stage 2G - Construct the reminder of Military Highway southbound traffic from railway crossing to the north terminus. The LANE Team will reconstruct the SB roadway over the existing alignment.

Stage 2H - Construct the medians and the remaining roadway work. Both NB and SB traffic will shift away from the inside lanes to allow for the removal of temporary pavement, median construction, AC paving, and installation of remaining of traffic signalization system and roadway lighting.

For **Area 3** construction, the work is sub-divided into three (3) stages. The LANE Team will construct the CFI between Military Highway and Princess Ann Road, as well as the widening / reconstruction of the Princess Road.

Stage 3A – While both NB and SB traffic remain in their current configuration, construct permanent southbound Military Highway lanes to the West of the existing SB lanes. This shift will begin just north of the box culvert area and transition back into the current alignment just south of the RR tracks. At the Princess Anne intersection, work will be done at night time, crossing one half of Princess Anne on separate nights. Switch SB MH traffic onto this new pavement with new, temporary traffic signals erected at the Princess Anne intersection.

Stage 3B – Construct the permanent NB lanes in the area of existing SB lanes, with concrete barrier placed on both sides of the work area providing a safe work zone and elimination of driver confusion. We will not construct all of the CFI medians until the stage 3 CFI switchover.

Stage 3C – Final phase work includes switching the traffic configurations from conventional configurations into the CFI geometry and demolition of the existing NB lanes.

CRITICAL PATH

The critical path of the project starts with the topographic survey, which is followed by the design and development of ROW plans and the acquisition of ROW parcels for Area 2.

After the completion of the utility relocation of Area 2, the critical path will follow the Area 2 construction stages. Starting with Stage 2A - Robin Hood Road widening (South side), which is followed by Stage 2B – Robin Hood Road widening (North side). The critical path then runs through Stage 2D, 2E, 2F, 2G, and 2H. Upon the completion of the Stage 2H, the critical path will follow the final paving and striping of the Project.

CONSTRUCTION QA/QC

A “hammock” WBS activity has been created to represent Construction QA/QC which includes on-site daily inspections, testing and sampling and AMRL certified Laboratory testing that will be required. The overall Level of Effort for the QA/QC process is represented by a bar spanning all construction activities until final acceptance by VDOT.

KEY ASSUMPTIONS

The LANE Team made the following key assumptions on which our Proposal Schedule is based:

- Seven months of surcharge time is sufficient to eliminate the settlement issue in Area 1A.
- ROW acquisition time is approximately 140 working days.
- Area 1 and 1A ROW is limited to utility easements and minor acquisitions required at intersection areas.
- Private Utility Owners will perform all of their own relocations.
- No impacts due to unforeseen circumstances.
- Effective partnering and coordination between the LANE Team, VDOT, the City of Norfolk, adjacent contracts, and all stakeholders.

SCHEDULE MANAGEMENT

Effective management and control of a construction project of this scope requires the use of a proven software package for scheduling, documentation control, cost control, and design functions of the integrated team concept to the Design-Build approach. The LANE Team uses Primavera P6 (P6) scheduling software to plan, schedule, and monitor its construction projects. This software is an industry standard of practice for scheduling projects which allows us to plan, organize, and control the project with the Precedence Diagram Method (PDM) of scheduling. As a management tool, P6 is powerful and flexible enough to handle all project scheduling needs, including the following capabilities:

- CPM scheduling
- Cost management
- Resource management
- Data exchange
- Reporting capabilities
- Networking

Upon award of the contract, the LANE Team will collaborate to develop the baseline schedule based on our current design. To control time spent on activities, the LANE Team will develop a detailed, time-phased CPM project schedule and establish a timely, realistic Critical Path that will help ensure an on-time completion and identify potential risks. Several iterations of the schedule will be developed throughout the design phase and after collaborative analysis with both design and construction personnel. The P6 software program is used to generate a time-scaled logic diagram reflecting the interdependencies of all the activities incorporated into the schedule. In addition, other various tabular reports are produced, as required, for submission to the owner.

This schedule will indicate the necessary procurement and construction activities for each area of the project. Various calendars will be incorporated into the project schedule to reflect, among other things, holidays, seasonal work, temperature and precipitation restrictions, and owner requirements. The activities within the CPM schedule will be organized according to a work breakdown structure (WBS) that has been developed for the project. An Activity Coding Structure will be utilized in the project schedule to organize data output. The project schedule will be the tool used for coordination by both on-site and off-site LANE management. Schedule updates are used by managers to review progress and coordinate the efforts of all entities involved. A full-time on-site engineer is tasked with the responsibility to track schedule progress on a daily basis and provide monthly updates.

Detailed schedules are used to plan and monitor specific items of work and will be prepared as necessary to deal with individual work packages or smaller work activities as the need arises. As the work progresses, start dates, finish dates, percentage complete, and remaining durations will be updated to report the progress of each work activity. The Construction Manager will incorporate data into the CPM schedule on a monthly basis, review the results internally and with the owner, and prepare the required reports for submittal. Monthly updates of the CPM schedule provide the foundation of progress reports utilized by the LANE Team.

When changes or unforeseen circumstances arise that impacts the project schedule, the LANE Team will immediately notify VDOT (and other appropriate stakeholders) and begin incorporating changes into the "live" CPM schedule. If changes to any task or phase in the schedule result in schedule slippage, the Design-Build Project Manager will divide the task into its components to determine the reason(s) for falling behind. The LANE Team will develop and submit to VDOT for approval, a recovery plan to put the project back on track. Progress can then be tracked daily via the schedule compared to the previously accepted schedule. LANE's management will evaluate any slippage to determine if additional manpower, equipment, multiple shifts, a change in subcontractor, or additional subcontractors are required. If so, the necessary resources will be mobilized to correct the slippage and maintain the schedule. Scheduling practices and concerns will be clearly communicated to all subcontractors and key suppliers. Delays and schedule slippage will not be tolerated.

SUMMARY

The LANE Team has developed a Proposal Schedule and Proposal Schedule Narrative that demonstrates our understanding of the complexities and interrelationships of the technical elements of the Project. Additionally, our Proposal Schedule takes into account: internal plan reviews, VDOT, City of Norfolk and FHWA plan reviews and approvals, environmental permitting, right of way acquisitions, utility relocations, weather and construction activities.

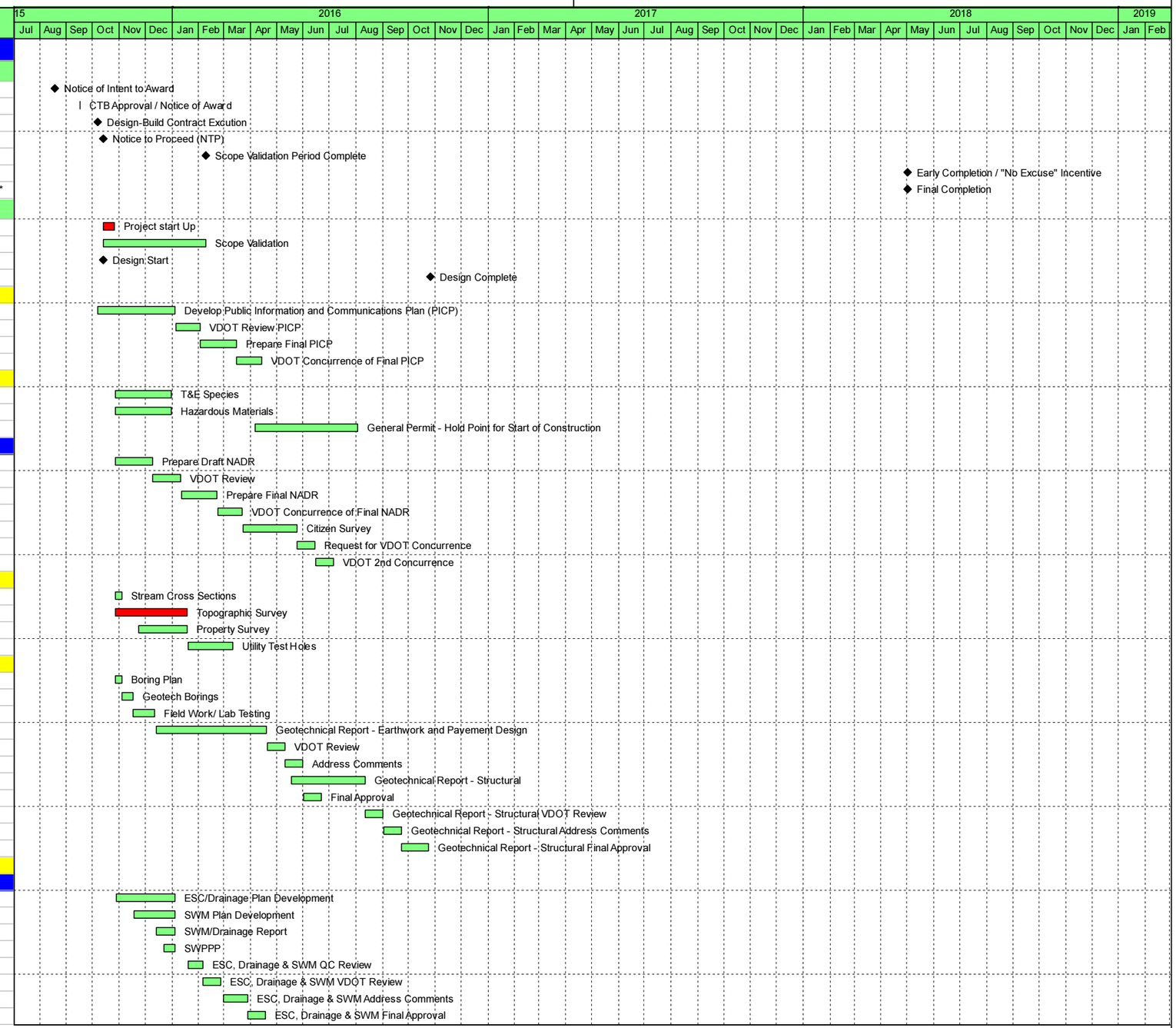
The LANE Team is committed to improve the enclosed Proposal Schedule to better serve VDOT, all associated stakeholders, and the traveling public. Once we have notice to proceed and the final design process begins, our Team is committed to deliver a safe, on time and successful Project to VDOT and local residents/motorists.

VDOT Contract ID #: C00001765DB81

Military Highway CFI Proposal Schedule

23-Jul-15 10:00

Activity ID	Activity Name	Original Duration	Start	Finish
Military CFI Proposal Schedule		553	18-Aug-15	01-May-18
Admin		988	18-Aug-15	01-May-18
A000-1000	Notice of Intent to Award	0	18-Aug-15*	
A000-1010	CTB Approval / Notice of Award	1	16-Sep-15*	16-Sep-15
A000-1020	Design-Build Contract Excution	0	07-Oct-15*	
A000-1030	Notice to Proceed (NTP)	0	13-Oct-15*	
A000-1040	Scope Validation Period Complete	0		09-Feb-16
A000-1050	Early Completion / "No Excuse" Incentive	0		01-May-18
A000-1060	Final Completion	0		01-May-18*
Design		244	07-Oct-15	19-Dec-16
D000-1010	Project start Up	10	13-Oct-15	26-Oct-15
D000-1020	Scope Validation	120	13-Oct-15	09-Feb-16
D000-1280	Design Start	0	13-Oct-15	
D000-1290	Design Complete	0		26-Oct-16
Public Relationship		106	07-Oct-15	13-Apr-16
D000-2590	Develop Public Information and Communications Plan (PIC	90	07-Oct-15	04-Jan-16
D000-2600	VDOT Review PICP	21	05-Jan-16	02-Feb-16
D000-2610	Prepare Final PICP	30	03-Feb-16	15-Mar-16
D000-2620	VDOT Concurrence of Final PICP	21	16-Mar-16	13-Apr-16
Environmental Services		158	27-Oct-15	03-Aug-16
D000-1040	T&E Species	45	27-Oct-15	31-Dec-15
D000-1050	Hazardous Materials	45	27-Oct-15	31-Dec-15
D000-1030	General Permit - Hold Point for Start of Construction	120	06-Apr-16	03-Aug-16
Noise Mitigation		141	27-Oct-15	05-Jul-16
D000-1060	Prepare Draft NADR	30	27-Oct-15	09-Dec-15
D000-1070	VDOT Review	21	10-Dec-15	11-Jan-16
D000-1080	Prepare Final NADR	30	12-Jan-16	22-Feb-16
D000-1090	VDOT Concurrence of Final NADR	21	23-Feb-16	22-Mar-16
D000-1100	Citizen Survey	45	23-Mar-16	24-May-16
D000-1110	Request for VDOT Concurrence	21	25-May-16	14-Jun-16
D000-1120	VDOT 2nd Concurrence	21	15-Jun-16	05-Jul-16
Survey		75	27-Oct-15	11-Mar-16
D000-1130	Stream Cross Sections	7	27-Oct-15	04-Nov-15
D000-1140	Topographic Survey	45	27-Oct-15	18-Jan-16
D000-1150	Property Survey	30	23-Nov-15	18-Jan-16
D000-1160	Utility Test Holes	30	19-Jan-16	11-Mar-16
Geotechnical Services		202	27-Oct-15	23-Oct-16
D000-1170	Boring Plan	6	27-Oct-15	03-Nov-15
D000-1180	Geotech Borings	7	04-Nov-15	16-Nov-15
D000-1190	Field Work/ Lab Testing	14	17-Nov-15	11-Dec-15
D000-1200	Geotechnical Report - Earthwork and Pavement Design	90	14-Dec-15	19-Apr-16
D000-1210	VDOT Review	21	20-Apr-16	10-May-16
D000-1220	Address Comments	14	11-May-16	31-May-16
D000-1240	Geotechnical Report - Structural	60	18-May-16	11-Aug-16
D000-1230	Final Approval	21	01-Jun-16	21-Jun-16
D000-1250	Geotechnical Report - Structural VDOT Review	21	12-Aug-16	01-Sep-16
D000-1260	Geotechnical Report - Structural Address Comments	21	02-Sep-16	22-Sep-16
D000-1270	Geotechnical Report - Structural Final Approval	31	23-Sep-16	23-Oct-16
Area 1 Design (Lowery to Box Culvert)		147	28-Oct-15	19-Jul-16
ESC, Drainage & SWM		96	28-Oct-15	18-Apr-16
D100-1280	ESC/Drainage Plan Development	45	28-Oct-15	04-Jan-16
D100-1290	SWM Plan Development	30	18-Nov-15	04-Jan-16
D100-1300	SWM/Drainage Report	14	14-Dec-15	04-Jan-16
D100-1310	SWPPP	8	22-Dec-15	04-Jan-16
D100-1320	ESC, Drainage & SWM QC Review	14	19-Jan-16	05-Feb-16
D100-1330	ESC, Drainage & SWM VDOT Review	21	06-Feb-16	26-Feb-16
D100-1340	ESC, Drainage & SWM Address Comments	21	29-Feb-16	28-Mar-16
D100-1350	ESC, Drainage & SWM Final Approval	21	29-Mar-16	18-Apr-16

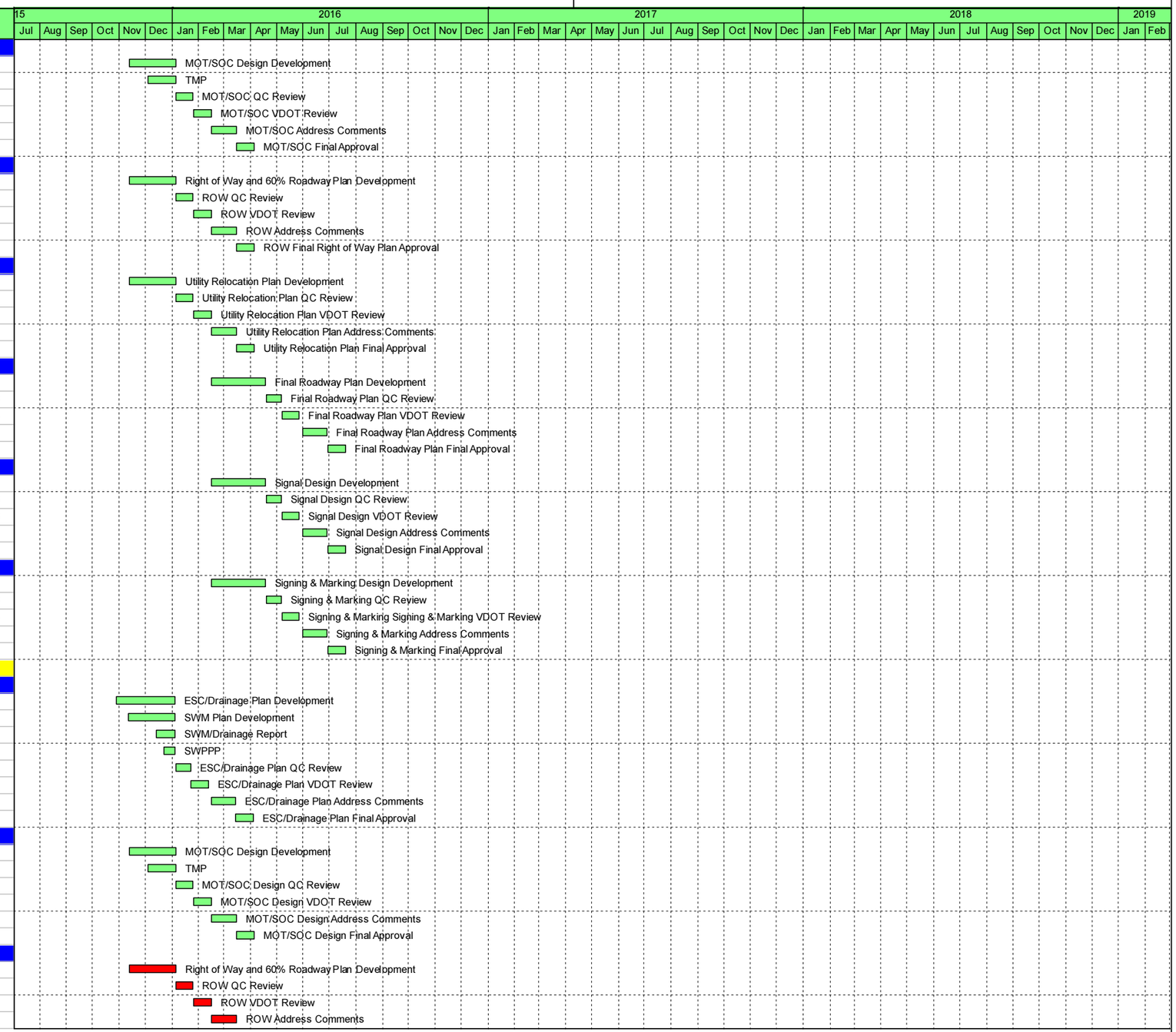


Remaining Level of Effort | Remaining Work | ◆ Milestone

Actual Work | Critical Remaining Work

LANE

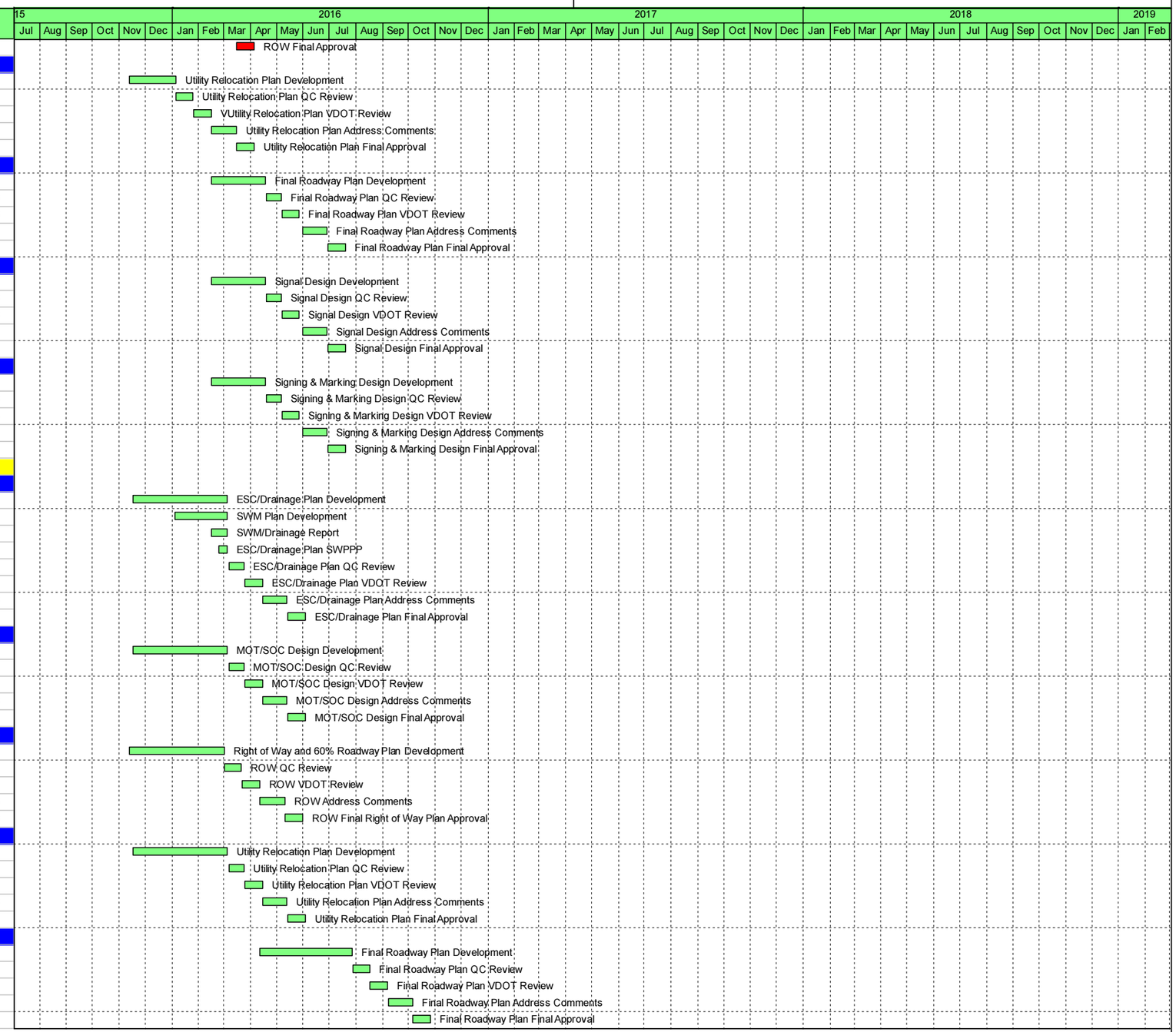
Activity ID	Activity Name	Original Duration	Start	Finish
MOT/SOC		80	12-Nov-15	05-Apr-16
D100-1360	MOT/SOC Design Development	35	12-Nov-15	05-Jan-16
D100-1370	TMP	21	04-Dec-15	05-Jan-16
D100-1380	MOT/SOC QC Review	14	06-Jan-16	25-Jan-16
D100-1390	MOT/SOC VDOT Review	21	26-Jan-16	15-Feb-16
D100-1400	MOT/SOC Address Comments	21	16-Feb-16	15-Mar-16
D100-1410	MOT/SOC Final Approval	21	16-Mar-16	05-Apr-16
Right of Way Plans		80	12-Nov-15	05-Apr-16
D100-1420	Right of Way and 60% Roadway Plan Development	35	12-Nov-15	05-Jan-16
D100-1430	ROW QC Review	14	06-Jan-16	25-Jan-16
D100-1440	ROW VDOT Review	21	26-Jan-16	15-Feb-16
D100-1450	ROW Address Comments	21	16-Feb-16	15-Mar-16
D100-1460	ROW Final Right of Way Plan Approval	21	16-Mar-16	05-Apr-16
Utility Relocation Plans		80	12-Nov-15	05-Apr-16
D100-1470	Utility Relocation Plan Development	35	12-Nov-15	05-Jan-16
D100-1480	Utility Relocation Plan QC Review	14	06-Jan-16	25-Jan-16
D100-1490	Utility Relocation Plan VDOT Review	21	26-Jan-16	15-Feb-16
D100-1500	Utility Relocation Plan Address Comments	21	16-Feb-16	15-Mar-16
D100-1510	Utility Relocation Plan Final Approval	21	16-Mar-16	05-Apr-16
Roadway Design		87	16-Feb-16	19-Jul-16
D100-1520	Final Roadway Plan Development	45	16-Feb-16	18-Apr-16
D100-1530	Final Roadway Plan QC Review	14	19-Apr-16	06-May-16
D100-1540	Final Roadway Plan VDOT Review	21	07-May-16	27-May-16
D100-1550	Final Roadway Plan Address Comments	21	31-May-16	28-Jun-16
D100-1560	Final Roadway Plan Final Approval	21	29-Jun-16	19-Jul-16
Signal Design		87	16-Feb-16	19-Jul-16
D100-1570	Signal Design Development	45	16-Feb-16	18-Apr-16
D100-1580	Signal Design QC Review	14	19-Apr-16	06-May-16
D100-1590	Signal Design VDOT Review	21	07-May-16	27-May-16
D100-1600	Signal Design Address Comments	21	31-May-16	28-Jun-16
D100-1610	Signal Design Final Approval	21	29-Jun-16	19-Jul-16
Signing & Marking Design		87	16-Feb-16	19-Jul-16
D100-1620	Signing & Marking Design Development	45	16-Feb-16	18-Apr-16
D100-1630	Signing & Marking QC Review	14	19-Apr-16	06-May-16
D100-1640	Signing & Marking Signing & Marking VDOT Review	21	07-May-16	27-May-16
D100-1650	Signing & Marking Address Comments	21	31-May-16	28-Jun-16
D100-1660	Signing & Marking Final Approval	21	29-Jun-16	19-Jul-16
Area 2 Design (Railroad Crossing to Robin hood)		147	28-Oct-15	19-Jul-16
ESC, Drainage & SWM		88	28-Oct-15	04-Apr-16
D200-1670	ESC/Drainage Plan Development	45	28-Oct-15	04-Jan-16
D200-1680	SWM Plan Development	35	11-Nov-15	04-Jan-16
D200-1690	SWM/Drainage Report	14	14-Dec-15	04-Jan-16
D200-1700	SWPPP	8	22-Dec-15	04-Jan-16
D200-1710	ESC/Drainage Plan QC Review	14	05-Jan-16	22-Jan-16
D200-1720	ESC/Drainage Plan VDOT Review	21	23-Jan-16	12-Feb-16
D200-1730	ESC/Drainage Plan Address Comments	21	15-Feb-16	14-Mar-16
D200-1740	ESC/Drainage Plan Final Approval	21	15-Mar-16	04-Apr-16
MOT/SOC		80	12-Nov-15	05-Apr-16
D200-1750	MOT/SOC Design Development	35	12-Nov-15	05-Jan-16
D200-1760	TMP	21	04-Dec-15	05-Jan-16
D200-1770	MOT/SOC Design QC Review	14	06-Jan-16	25-Jan-16
D200-1780	MOT/SOC Design VDOT Review	21	26-Jan-16	15-Feb-16
D200-1790	MOT/SOC Design Address Comments	21	16-Feb-16	15-Mar-16
D200-1800	MOT/SOC Design Final Approval	21	16-Mar-16	05-Apr-16
Right of Way Plans		80	12-Nov-15	05-Apr-16
D200-1810	Right of Way and 60% Roadway Plan Development	35	12-Nov-15	05-Jan-16
D200-1820	ROW QC Review	14	06-Jan-16	25-Jan-16
D200-1830	ROW VDOT Review	21	26-Jan-16	15-Feb-16
D200-1840	ROW Address Comments	21	16-Feb-16	15-Mar-16



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

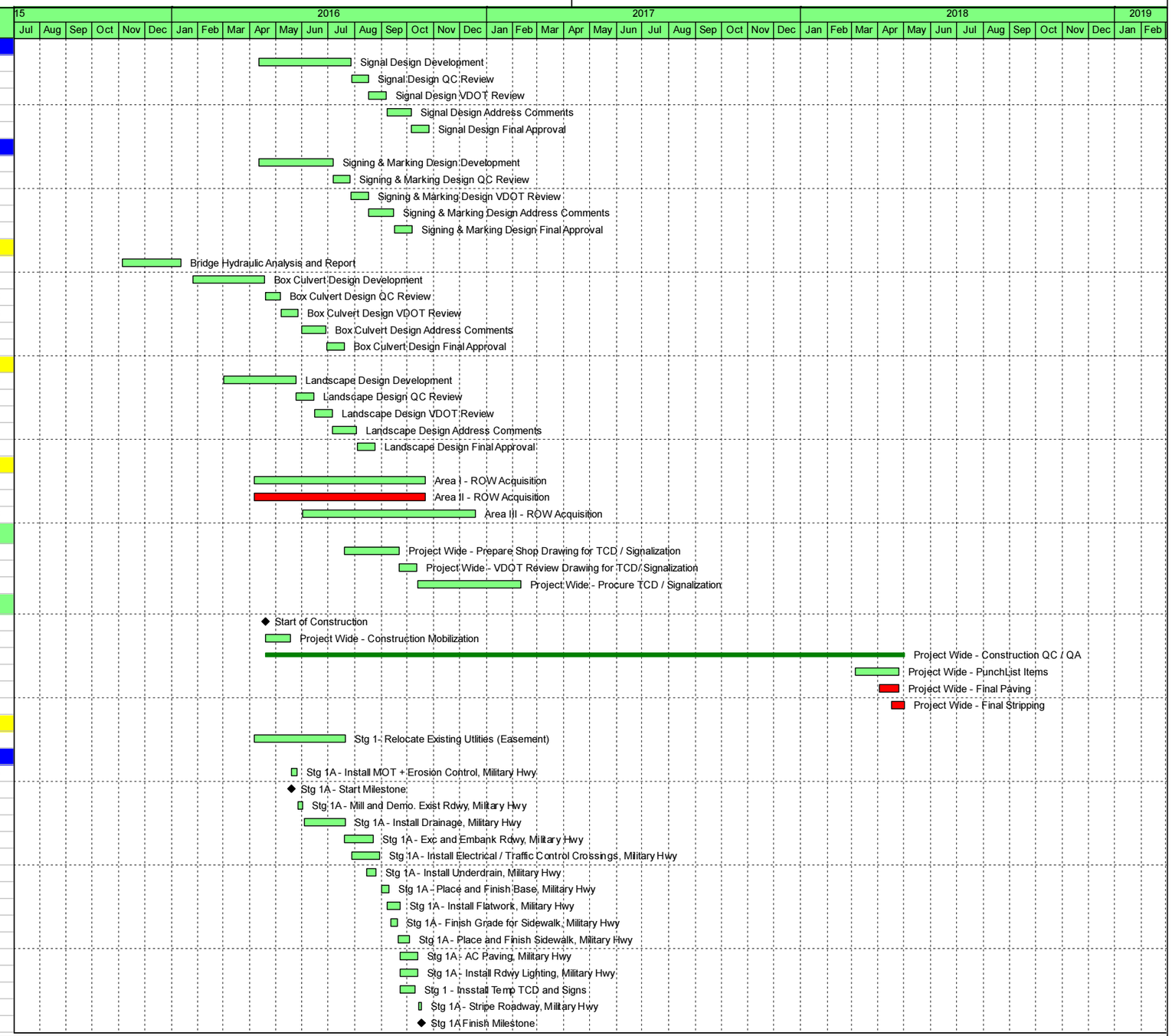
Activity ID	Activity Name	Original Duration	Start	Finish
D200-1850	ROW Final Approval	21	16-Mar-16	05-Apr-16
Utility Relocation Plans		**80**	**12-Nov-15**	**05-Apr-16**
D200-1860	Utility Relocation Plan Development	35	12-Nov-15	05-Jan-16
D200-1870	Utility Relocation Plan QC Review	14	06-Jan-16	25-Jan-16
D200-1880	VUtility Relocation Plan VDOT Review	21	26-Jan-16	15-Feb-16
D200-1890	Utility Relocation Plan Address Comments	21	16-Feb-16	15-Mar-16
D200-1900	Utility Relocation Plan Final Approval	21	16-Mar-16	05-Apr-16
Roadway Design		**87**	**16-Feb-16**	**19-Jul-16**
D200-1910	Final Roadway Plan Development	45	16-Feb-16	18-Apr-16
D200-1920	Final Roadway Plan QC Review	14	19-Apr-16	06-May-16
D200-1930	Final Roadway Plan VDOT Review	21	07-May-16	27-May-16
D200-1940	Final Roadway Plan Address Comments	21	31-May-16	28-Jun-16
D200-1950	Final Roadway Plan Final Approval	21	29-Jun-16	19-Jul-16
Signal Design		**87**	**16-Feb-16**	**19-Jul-16**
D200-1960	Signal Design Development	45	16-Feb-16	18-Apr-16
D200-1970	Signal Design QC Review	14	19-Apr-16	06-May-16
D200-1980	Signal Design VDOT Review	21	07-May-16	27-May-16
D200-1990	Signal Design Address Comments	21	31-May-16	28-Jun-16
D200-2000	Signal Design Final Approval	21	29-Jun-16	19-Jul-16
Signing & Marking Design		**87**	**16-Feb-16**	**19-Jul-16**
D200-2010	Signing & Marking Design Development	45	16-Feb-16	18-Apr-16
D200-2020	Signing & Marking Design QC Review	14	19-Apr-16	06-May-16
D200-2030	Signing & Marking Design VDOT Review	21	07-May-16	27-May-16
D200-2040	Signing & Marking Design Address Comments	21	31-May-16	28-Jun-16
D200-2050	Signing & Marking Design Final Approval	21	29-Jun-16	19-Jul-16
Area 3 Design (Box Culvert to Railroad Crossing)		**194**	**12-Nov-15**	**26-Oct-16**
ESC, Drainage & SWM		**112**	**17-Nov-15**	**03-Jun-16**
D300-2060	ESC/Drainage Plan Development	75	17-Nov-15	04-Mar-16
D300-2070	SWM Plan Development	45	04-Jan-16	04-Mar-16
D300-2080	SWM/Drainage Report	14	16-Feb-16	04-Mar-16
D300-2090	ESC/Drainage Plan SWPPP	8	24-Feb-16	04-Mar-16
D300-2100	ESC/Drainage Plan QC Review	14	07-Mar-16	24-Mar-16
D300-2110	ESC/Drainage Plan VDOT Review	21	25-Mar-16	14-Apr-16
D300-2120	ESC/Drainage Plan Address Comments	21	15-Apr-16	13-May-16
D300-2130	ESC/Drainage Plan Final Approval	21	14-May-16	03-Jun-16
MOT/SOC		**112**	**17-Nov-15**	**03-Jun-16**
D300-2140	MOT/SOC Design Development	75	17-Nov-15	04-Mar-16
D300-2160	MOT/SOC Design QC Review	14	07-Mar-16	24-Mar-16
D300-2170	MOT/SOC Design VDOT Review	21	25-Mar-16	14-Apr-16
D300-2180	MOT/SOC Design Address Comments	21	15-Apr-16	13-May-16
D300-2190	MOT/SOC Design Final Approval	21	14-May-16	03-Jun-16
Right of Way Plans		**112**	**12-Nov-15**	**31-May-16**
D300-2200	Right of Way and 60% Roadway Plan Development	75	12-Nov-15	01-Mar-16
D300-2210	ROW QC Review	14	02-Mar-16	21-Mar-16
D300-2220	ROW VDOT Review	21	22-Mar-16	11-Apr-16
D300-2230	ROW Address Comments	21	12-Apr-16	10-May-16
D300-2240	ROW Final Right of Way Plan Approval	21	11-May-16	31-May-16
Utility Relocation Plans		**112**	**17-Nov-15**	**03-Jun-16**
D300-2250	Utility Relocation Plan Development	75	17-Nov-15	04-Mar-16
D300-2260	Utility Relocation Plan QC Review	14	07-Mar-16	24-Mar-16
D300-2270	Utility Relocation Plan VDOT Review	21	25-Mar-16	14-Apr-16
D300-2280	Utility Relocation Plan Address Comments	21	15-Apr-16	13-May-16
D300-2290	Utility Relocation Plan Final Approval	21	14-May-16	03-Jun-16
Roadway Design		**111**	**12-Apr-16**	**26-Oct-16**
D300-2300	Final Roadway Plan Development	75	12-Apr-16	27-Jul-16
D300-2310	Final Roadway Plan QC Review	14	28-Jul-16	16-Aug-16
D300-2320	Final Roadway Plan VDOT Review	21	17-Aug-16	06-Sep-16
D300-2330	Final Roadway Plan Address Comments	21	07-Sep-16	05-Oct-16
D300-2340	Final Roadway Plan Final Approval	21	06-Oct-16	26-Oct-16



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

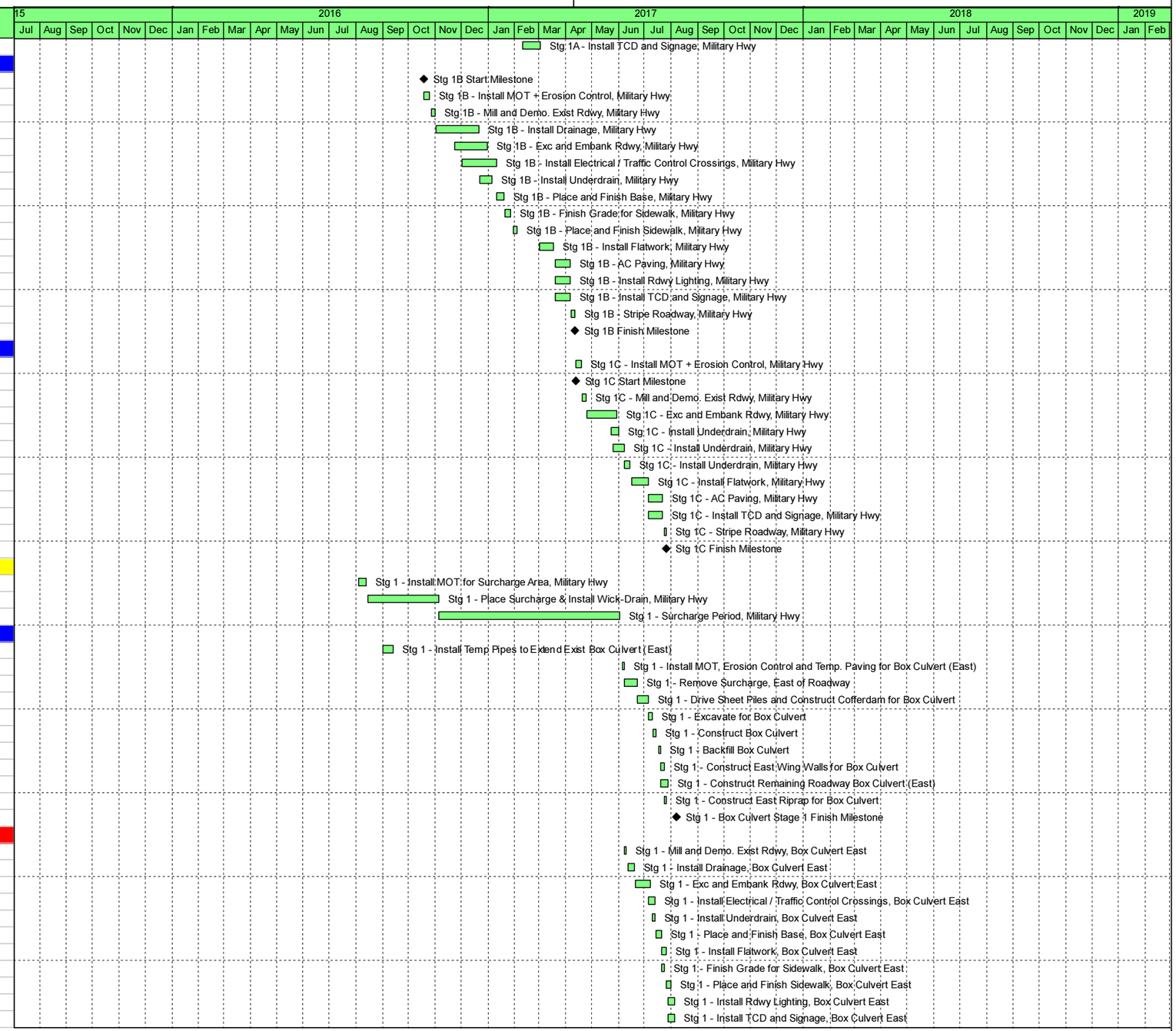
Activity ID	Activity Name	Original Duration	Start	Finish
Signal Design		111	12-Apr-16	26-Oct-16
D300-2350	Signal Design Development	75	12-Apr-16	27-Jul-16
D300-2360	Signal Design QC Review	14	28-Jul-16	16-Aug-16
D300-2370	Signal Design VDOT Review	21	17-Aug-16	06-Sep-16
D300-2380	Signal Design Address Comments	21	07-Sep-16	05-Oct-16
D300-2390	Signal Design Final Approval	21	06-Oct-16	26-Oct-16
Signing & Marking Design		100	12-Apr-16	06-Oct-16
D300-2400	Signing & Marking Design Development	60	12-Apr-16	06-Jul-16
D300-2410	Signing & Marking Design QC Review	14	07-Jul-16	26-Jul-16
D300-2420	Signing & Marking Design VDOT Review	21	27-Jul-16	16-Aug-16
D300-2430	Signing & Marking Design Address Comments	21	17-Aug-16	15-Sep-16
D300-2440	Signing & Marking Design Final Approval	21	16-Sep-16	06-Oct-16
Box Culvert Design		142	05-Nov-15	19-Jul-16
D300-2450	Bridge Hydraulic Analysis and Report	45	05-Nov-15	12-Jan-16
D300-2460	Box Culvert Design Development	60	26-Jan-16	18-Apr-16
D300-2470	Box Culvert Design QC Review	14	19-Apr-16	06-May-16
D300-2480	Box Culvert Design VDOT Review	21	07-May-16	27-May-16
D300-2490	Box Culvert Design Address Comments	21	31-May-16	28-Jun-16
D300-2500	Box Culvert Design Final Approval	21	29-Jun-16	19-Jul-16
Landscape Design		100	02-Mar-16	24-Aug-16
D000-2510	Landscape Design Development	60	02-Mar-16	24-May-16
D000-2520	Landscape Design QC Review	14	25-May-16	14-Jun-16
D000-2530	Landscape Design VDOT Review	21	15-Jun-16	05-Jul-16
D000-2540	Landscape Design Address Comments	21	06-Jul-16	03-Aug-16
D000-2550	Landscape Design Final Approval	21	04-Aug-16	24-Aug-16
Military Highway Right of Way Acquisition		179	06-Apr-16	19-Dec-16
D000-2560	Area I - ROW Acquisition	140	06-Apr-16	21-Oct-16
D000-2570	Area II - ROW Acquisition	140	06-Apr-16	21-Oct-16
D000-2580	Area III - ROW Acquisition	140	01-Jun-16	19-Dec-16
Procurement		114	20-Jul-16	09-Feb-17
P000-1000	Project Wide - Prepare Shop Drawing for TCD / Signalizati	45	20-Jul-16	21-Sep-16
P000-1010	Project Wide - VDOT Review Drawing for TCD/ Signalizati	21	22-Sep-16	12-Oct-16
P000-1050	Project Wide - Procure TCD / Signalization	120	13-Oct-16	09-Feb-17
Construction		422	06-Apr-16	01-May-18
C000-1000	Start of Construction	0	19-Apr-16	
C000-1040	Project Wide - Construction Mobilization	30	19-Apr-16	18-May-16
C000-1050	Project Wide - Construction QC / QA	415	19-Apr-16	01-May-18
C000-1030	Project Wide - PunchList Items	30	05-Mar-18	25-Apr-18
C000-1010	Project Wide - Final Paving	15	02-Apr-18	25-Apr-18
C000-1020	Project Wide - Final Stripping	10	16-Apr-18	01-May-18
Area 1 - Sta 96+94 to 127+00		266	06-Apr-16	26-Jul-17
C100-1000	Stg 1- Relocate Existing Utilities (Easement)	60	06-Apr-16	21-Jul-16
Stage 1A		159	19-May-16	02-Mar-17
C100A1000	Stg 1A- Install MOT + Erosion Control, Military Hwy	5	19-May-16	25-May-16
C100A1150	Stg 1A- Start Milestone	0	19-May-16	
C100A1010	Stg 1A- Mill and Demo. Exist Rdwy, Military Hwy	3	27-May-16	01-Jun-16
C100A1020	Stg 1A- Install Drainage, Military Hwy	27	03-Jun-16	21-Jul-16
C100A1040	Stg 1A- Exc and Embank Rdwy, Military Hwy	20	20-Jul-16	22-Aug-16
C100A1060	Stg 1A- Install Electrical / Traffic Control Crossings, Militar	20	28-Jul-16	30-Aug-16
C100A1050	Stg 1A- Install Underdrain, Military Hwy	7	15-Aug-16	25-Aug-16
C100A1070	Stg 1A- Place and Finish Base, Military Hwy	5	01-Sep-16	09-Sep-16
C100A1080	Stg 1A- Install Flatwork, Military Hwy	10	07-Sep-16	22-Sep-16
C100A1130	Stg 1A- Finish Grade for Sidewalk, Military Hwy	5	12-Sep-16	19-Sep-16
C100A1140	Stg 1A- Place and Finish Sidewalk, Military Hwy	8	20-Sep-16	03-Oct-16
C100A1090	Stg 1A- AC Paving, Military Hwy	12	23-Sep-16	13-Oct-16
C100A1100	Stg 1A- Install Rdwy Lighting, Military Hwy	12	23-Sep-16	13-Oct-16
C100A1170	Stg 1 - Insstall Temp TCD and Signs	10	23-Sep-16	10-Oct-16
C100A1120	Stg 1A- Stripe Roadway, Military Hwy	2	14-Oct-16	17-Oct-16
C100A1160	Stg 1A Finish Milestone	0		17-Oct-16



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

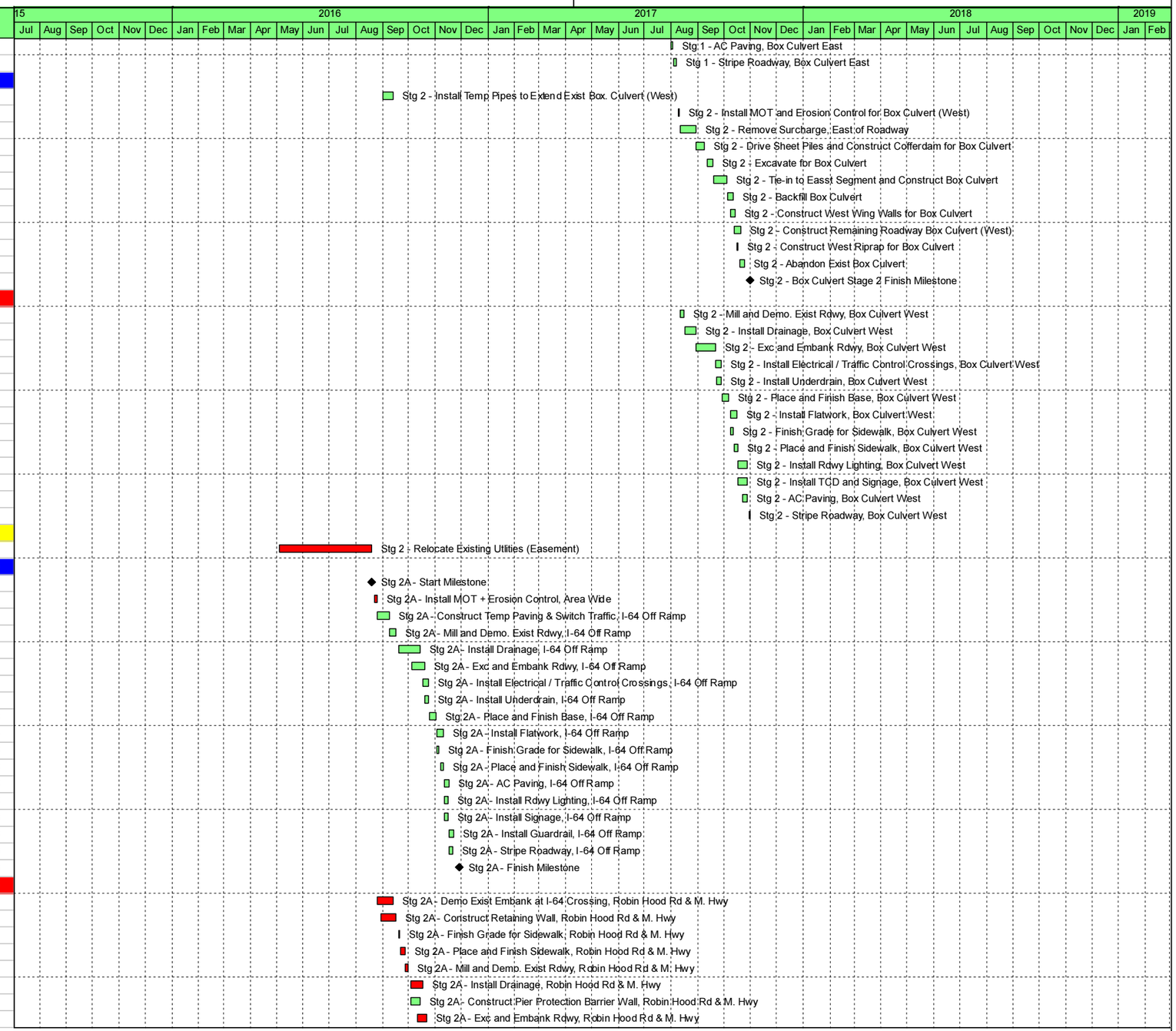
Activity ID	Activity Name	Original Duration	Start	Finish
C100A1110	Stg 1A - Install TCD and Signage, Military Hwy	12	10-Feb-17	02-Mar-17
Stage 1B		**97**	**18-Oct-16**	**11-Apr-17**
C100B1170	Stg 1B Start Milestone	0	18-Oct-16	
C100B1000	Stg 1B - Install MOT + Erosion Control, Military Hwy	5	19-Oct-16	25-Oct-16
C100B1010	Stg 1B - Mill and Demo. Exist Rdwy, Military Hwy	3	27-Oct-16	31-Oct-16
C100B1020	Stg 1B - Install Drainage, Military Hwy	28	01-Nov-16	21-Dec-16
C100B1040	Stg 1B - Exc and Embank Rdwy, Military Hwy	20	23-Nov-16	30-Dec-16
C100B1060	Stg 1B - Install Electrical / Traffic Control Crossings, Militar	20	02-Dec-16	10-Jan-17
C100B1050	Stg 1B - Install Underdrain, Military Hwy	7	22-Dec-16	05-Jan-17
C100B1070	Stg 1B - Place and Finish Base, Military Hwy	5	11-Jan-17	19-Jan-17
C100B1130	Stg 1B - Finish Grade for Sidewalk, Military Hwy	5	20-Jan-17	27-Jan-17
C100B1140	Stg 1B - Place and Finish Sidewalk, Military Hwy	5	30-Jan-17	03-Feb-17
C100B1080	Stg 1B - Install Flatwork, Military Hwy	10	01-Mar-17	17-Mar-17
C100B1090	Stg 1B - AC Paving, Military Hwy	12	20-Mar-17	06-Apr-17
C100B1100	Stg 1B - Install Rdwy Lighting, Military Hwy	12	20-Mar-17	06-Apr-17
C100B1110	Stg 1B - Install TCD and Signage, Military Hwy	12	20-Mar-17	06-Apr-17
C100B1120	Stg 1B - Stripe Roadway, Military Hwy	2	07-Apr-17	11-Apr-17
C100B1180	Stg 1B Finish Milestone	0		11-Apr-17
Stage 1C		**60**	**12-Apr-17**	**26-Jul-17**
C100C1000	Stg 1C - Install MOT + Erosion Control, Military Hwy	5	12-Apr-17	19-Apr-17
C100C1190	Stg 1C Start Milestone	0	12-Apr-17	
C100C1010	Stg 1C - Mill and Demo. Exist Rdwy, Military Hwy	3	20-Apr-17	24-Apr-17
C100C1040	Stg 1C - Exc and Embank Rdwy, Military Hwy	20	25-Apr-17	30-May-17
C100C1050	Stg 1C - Install Underdrain, Military Hwy	6	23-May-17	01-Jun-17
C100C1060	Stg 1C - Install Underdrain, Military Hwy	8	25-May-17	07-Jun-17
C100C1070	Stg 1C - Install Underdrain, Military Hwy	5	08-Jun-17	14-Jun-17
C100C1080	Stg 1C - Install Flatwork, Military Hwy	10	16-Jun-17	05-Jul-17
C100C1090	Stg 1C - AC Paving, Military Hwy	10	06-Jul-17	21-Jul-17
C100C1210	Stg 1C - Install TCD and Signage, Military Hwy	10	06-Jul-17	21-Jul-17
C100C1100	Stg 1C - Stripe Roadway, Military Hwy	2	24-Jul-17	26-Jul-17
C100C1200	Stg 1C Finish Milestone	0		26-Jul-17
Area 1A - Box Culvert & Surcharge Area		**252**	**04-Aug-16**	**31-Oct-17**
C100-1170	Stg 1 - Install MOT for Surcharge Area, Military Hwy	5	04-Aug-16	12-Aug-16
C100-1190	Stg 1 - Place Surcharge & Install Wick-Drain, Military Hwy	47	15-Aug-16	04-Nov-16
C100-1180	Stg 1 - Surcharge Period, Military Hwy	210	05-Nov-16	02-Jun-17
Box Culvert - Stage 1 East		**189**	**01-Sep-16**	**07-Aug-17**
C100-1080	Stg 1 - Install Temp Pipes to Extend Exist Box Culvert (Eas	6	01-Sep-16	12-Sep-16
C100-1370	Stg 1 - Install MOT, Erosion Control and Temp. Paving for I	2	05-Jun-17	07-Jun-17
C100-1390	Stg 1 - Remove Surcharge, East of Roadway	9	08-Jun-17	22-Jun-17
C100-1280	Stg 1 - Drive Sheet Piles and Construct Cofferdam for Box	6	23-Jun-17	05-Jul-17
C100-1300	Stg 1 - Excavate for Box Culvert	3	06-Jul-17	10-Jul-17
C100-1310	Stg 1 - Construct Box Culvert	3	11-Jul-17	14-Jul-17
C100-1320	Stg 1 - Backfill Box Culvert	2	17-Jul-17	19-Jul-17
C100-1330	Stg 1 - Construct East Wing Walls for Box Culvert	3	20-Jul-17	24-Jul-17
C100-1400	Stg 1 - Construct Remaining Roadway Box Culvert (East)	5	20-Jul-17	28-Jul-17
C100-1340	Stg 1 - Construct East Riprap for Box Culvert	2	24-Jul-17	26-Jul-17
C100-1560	Stg 1 - Box Culvert Stage 1 Finish Milestone	0		07-Aug-17
Roadway		**33**	**08-Jun-17**	**07-Aug-17**
C100-1430	Stg 1 - Mill and Demo. Exist Rdwy, Box Culvert East	2	08-Jun-17	09-Jun-17
C100-1440	Stg 1 - Install Drainage, Box Culvert East	5	12-Jun-17	19-Jun-17
C100-1450	Stg 1 - Exc and Embank Rdwy, Box Culvert East	10	20-Jun-17	07-Jul-17
C100-1470	Stg 1 - Install Electrical / Traffic Control Crossings, Box Cu	5	06-Jul-17	13-Jul-17
C100-1460	Stg 1 - Install Underdrain, Box Culvert East	3	10-Jul-17	13-Jul-17
C100-1480	Stg 1 - Place and Finish Base, Box Culvert East	4	14-Jul-17	20-Jul-17
C100-1490	Stg 1 - Install Flatwork, Box Culvert East	3	21-Jul-17	26-Jul-17
C100-1500	Stg 1 - Finish Grade for Sidewalk, Box Culvert East	2	21-Jul-17	24-Jul-17
C100-1540	Stg 1 - Place and Finish Sidewalk, Box Culvert East	3	26-Jul-17	31-Jul-17
C100-1520	Stg 1 - Install Rdwy Lighting, Box Culvert East	5	28-Jul-17	04-Aug-17
C100-1530	Stg 1 - Install TCD and Signage, Box Culvert East	5	28-Jul-17	04-Aug-17



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

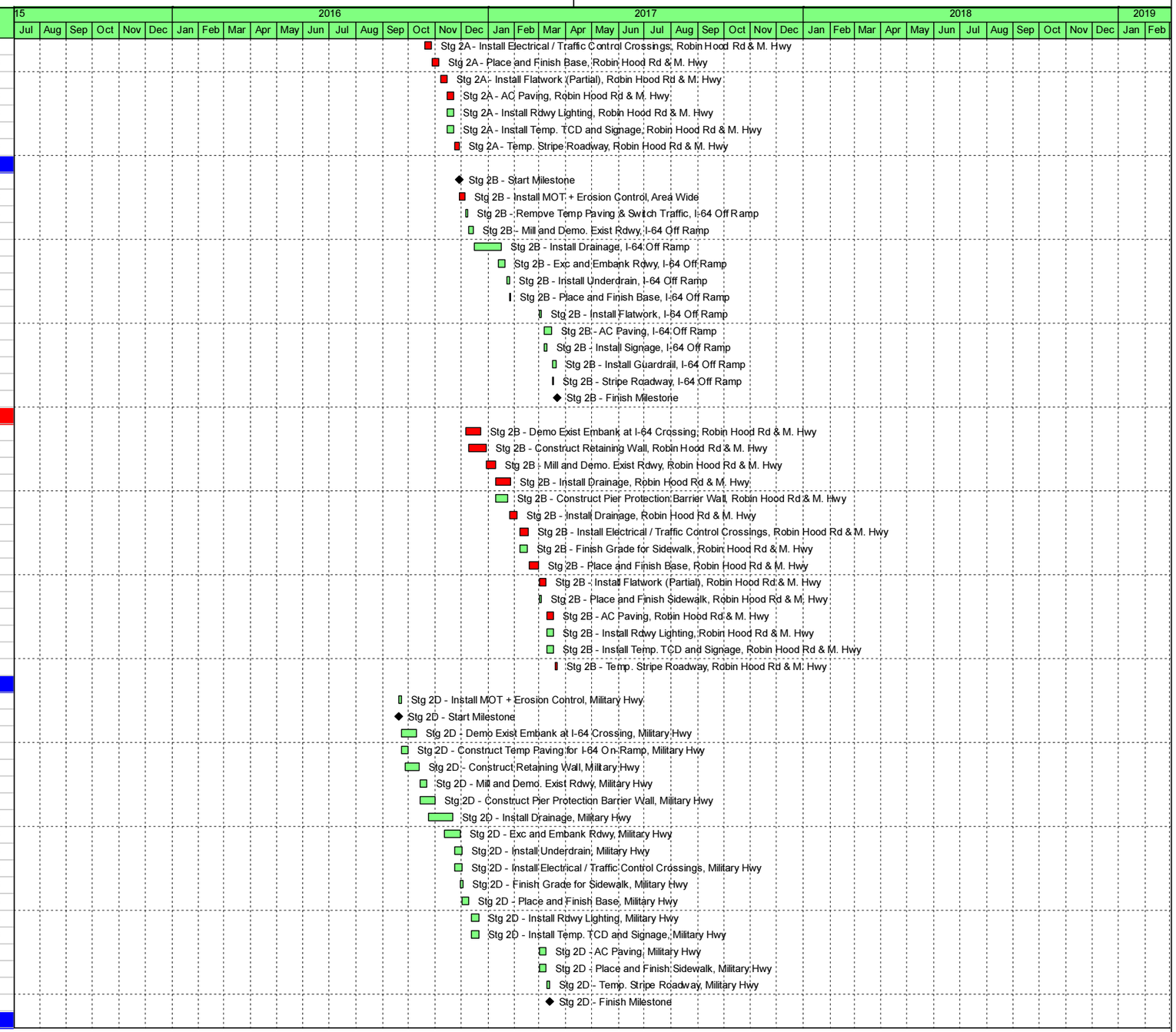
Activity ID	Activity Name	Original Duration	Start	Finish
C100-1510	Stg 1 - AC Paving, Box Culvert East	3	31-Jul-17	02-Aug-17
C100-1550	Stg 1 - Stripe Roadway, Box Culvert East	2	04-Aug-17	07-Aug-17
Box Culvert - Stage 2 West		237	01-Sep-16	31-Oct-17
C100-1350	Stg 2 - Install Temp Pipes to Extend Exist Box. Culvert (We	6	01-Sep-16	12-Sep-16
C100-1380	Stg 2 - Install MOT and Erosion Control for Box Culvert (W	2	09-Aug-17	10-Aug-17
C100-1420	Stg 2 - Remove Surcharge, East of Roadway	10	11-Aug-17	29-Aug-17
C100-1210	Stg 2 - Drive Sheet Piles and Construct Cofferdam for Box	6	30-Aug-17	08-Sep-17
C100-1230	Stg 2 - Excavate for Box Culvert	5	11-Sep-17	18-Sep-17
C100-1240	Stg 2 - Tie-in to Easst Segment and Construct Box Culvert	10	19-Sep-17	04-Oct-17
C100-1250	Stg 2 - Backfill Box Culvert	4	05-Oct-17	11-Oct-17
C100-1260	Stg 2 - Construct West Wing Walls for Box Culvert	3	09-Oct-17	13-Oct-17
C100-1570	Stg 2 - Construct Remaining Roadway Box Culvert (West)	5	13-Oct-17	20-Oct-17
C100-1270	Stg 2 - Construct West Riprap for Box Culvert	2	16-Oct-17	17-Oct-17
C100-1360	Stg 2 - Abandon Exist Box Culvert	4	19-Oct-17	24-Oct-17
C100-1410	Stg 2 - Box Culvert Stage 2 Finish Milestone	0		31-Oct-17
Roadway		46	11-Aug-17	31-Oct-17
C100-1580	Stg 2 - Mill and Demo. Exist Rdwy, Box Culvert West	3	11-Aug-17	15-Aug-17
C100-1590	Stg 2 - Install Drainage, Box Culvert West	7	17-Aug-17	29-Aug-17
C100-1600	Stg 2 - Exc and Embank Rdwy, Box Culvert West	13	30-Aug-17	21-Sep-17
C100-1620	Stg 2 - Install Electrical / Traffic Control Crossings, Box Cu	5	21-Sep-17	27-Sep-17
C100-1610	Stg 2 - Install Underdrain, Box Culvert West	4	22-Sep-17	27-Sep-17
C100-1630	Stg 2 - Place and Finish Base, Box Culvert West	6	29-Sep-17	06-Oct-17
C100-1640	Stg 2 - Install Flatwork, Box Culvert West	4	09-Oct-17	16-Oct-17
C100-1650	Stg 2 - Finish Grade for Sidewalk, Box Culvert West	2	09-Oct-17	11-Oct-17
C100-1690	Stg 2 - Place and Finish Sidewalk, Box Culvert West	3	13-Oct-17	17-Oct-17
C100-1670	Stg 2 - Install Rdwy Lighting, Box Culvert West	7	17-Oct-17	27-Oct-17
C100-1680	Stg 2 - Install TCD and Signage, Box Culvert West	7	17-Oct-17	27-Oct-17
C100-1660	Stg 2 - AC Paving, Box Culvert West	4	23-Oct-17	27-Oct-17
C100-1700	Stg 2 - Stripe Roadway, Box Culvert West	2	30-Oct-17	31-Oct-17
Area 2 - Sta 154+00 to 178+60		386	04-May-16	30-Mar-18
C200-1000	Stg 2 - Relocate Existing Utlities (Easement)	60	04-May-16	19-Aug-16
Stage 2A		55	19-Aug-16	28-Nov-16
C200A1160	Stg 2A - Start Milestone	0		19-Aug-16
C200A1000	Stg 2A - Install MOT + Erosion Control, Area Wide	3	22-Aug-16	25-Aug-16
C200A1010	Stg 2A - Construct Temp Paving & Switch Traffic, I-64 Off I	7	26-Aug-16	08-Sep-16
C200A1020	Stg 2A - Mill and Demo. Exist Rdwy, I-64 Off Ramp	5	09-Sep-16	16-Sep-16
C200A1030	Stg 2A - Install Drainage, I-64 Off Ramp	16	19-Sep-16	14-Oct-16
C200A1040	Stg 2A - Exc and Embank Rdwy, I-64 Off Ramp	8	05-Oct-16	19-Oct-16
C200A1060	Stg 2A - Install Electrical / Traffic Control Crossings, I-64 C	5	17-Oct-16	24-Oct-16
C200A1050	Stg 2A - Install Underdrain, I-64 Off Ramp	3	20-Oct-16	24-Oct-16
C200A1070	Stg 2A - Place and Finish Base, I-64 Off Ramp	5	25-Oct-16	01-Nov-16
C200A1080	Stg 2A - Install Flatwork, I-64 Off Ramp	5	03-Nov-16	10-Nov-16
C200A1140	Stg 2A - Finish Grade for Sidewalk, I-64 Off Ramp	2	03-Nov-16	04-Nov-16
C200A1150	Stg 2A - Place and Finish Sidewalk, I-64 Off Ramp	3	07-Nov-16	10-Nov-16
C200A1090	Stg 2A - AC Paving, I-64 Off Ramp	4	11-Nov-16	16-Nov-16
C200A1100	Stg 2A - Install Rdwy Lighting, I-64 Off Ramp	3	11-Nov-16	15-Nov-16
C200A1120	Stg 2A - Install Signage, I-64 Off Ramp	3	11-Nov-16	15-Nov-16
C200A1110	Stg 2A - Install Guardrail, I-64 Off Ramp	3	17-Nov-16	22-Nov-16
C200A1130	Stg 2A - Stripe Roadway, I-64 Off Ramp	2	17-Nov-16	21-Nov-16
C200A1170	Stg 2A - Finish Milestone	0		28-Nov-16
Robin Hood Rd		52	26-Aug-16	28-Nov-16
C201A1160	Stg 2A - Demo Exist Embank at I-64 Crossing, Robin Hooc	10	26-Aug-16	13-Sep-16
C201A1170	Stg 2A - Construct Retaining Wall, Robin Hood Rd & M. Hv	10	30-Aug-16	16-Sep-16
C201A1300	Stg 2A - Finish Grade for Sidewalk, Robin Hood Rd & M. H	2	19-Sep-16	20-Sep-16
C201A1310	Stg 2A - Place and Finish Sidewalk, Robin Hood Rd & M. H	3	22-Sep-16	26-Sep-16
C201A1190	Stg 2A - Mill and Demo. Exist Rdwy, Robin Hood Rd & M. H	3	27-Sep-16	30-Sep-16
C201A1200	Stg 2A - Install Drainage, Robin Hood Rd & M. Hwy	9	03-Oct-16	17-Oct-16
C201A1320	Stg 2A - Construct Pier Protection Barrier Wall, Robin Hoo	8	03-Oct-16	14-Oct-16
C201A1210	Stg 2A - Exc and Embank Rdwy, Robin Hood Rd & M. Hwy	7	11-Oct-16	21-Oct-16



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

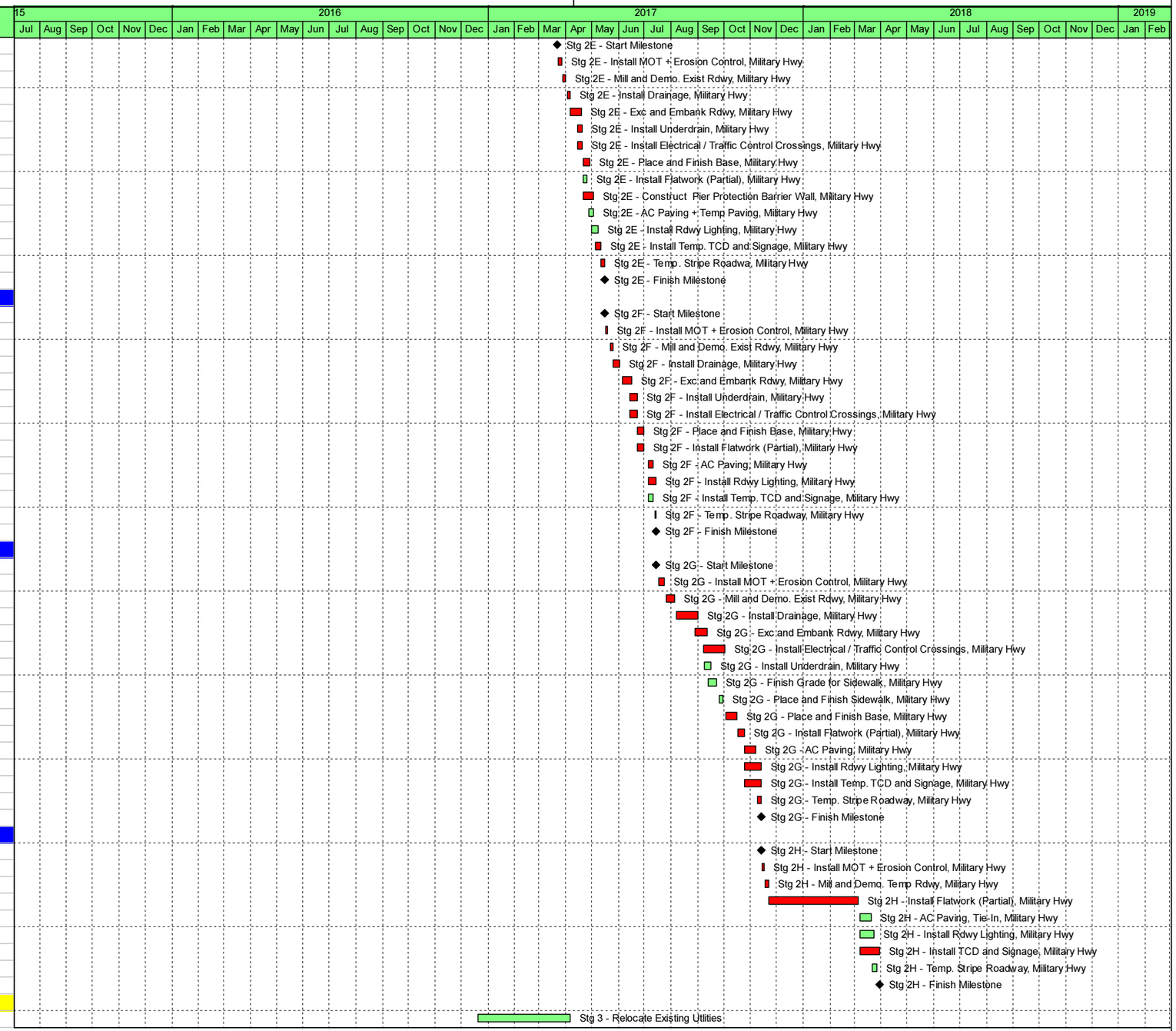
Activity ID	Activity Name	Original Duration	Start	Finish
C201A1230	Stg 2A - Install Electrical / Traffic Control Crossings, Robin	5	20-Oct-16	27-Oct-16
C201A1240	Stg 2A - Place and Finish Base, Robin Hood Rd & M. Hwy	5	28-Oct-16	04-Nov-16
C201A1250	Stg 2A - Install Flatwork (Partial), Robin Hood Rd & M. Hwy	5	07-Nov-16	14-Nov-16
C201A1260	Stg 2A - AC Paving, Robin Hood Rd & M. Hwy	5	15-Nov-16	22-Nov-16
C201A1270	Stg 2A - Install Rdwy Lighting, Robin Hood Rd & M. Hwy	5	15-Nov-16	22-Nov-16
C201A1280	Stg 2A - Install Temp. TCD and Signage, Robin Hood Rd &	5	15-Nov-16	22-Nov-16
C201A1290	Stg 2A - Temp. Stripe Roadway, Robin Hood Rd & M. Hwy	2	23-Nov-16	28-Nov-16
Stage 2B		**62**	**28-Nov-16**	**21-Mar-17**
C200B1160	Stg 2B - Start Milestone	0		28-Nov-16
C200B1000	Stg 2B - Install MOT + Erosion Control, Area Wide	5	29-Nov-16	05-Dec-16
C200B1010	Stg 2B - Remove Temp Paving & Switch Traffic, I-64 Off R	2	06-Dec-16	08-Dec-16
C200B1020	Stg 2B - Mill and Demo. Exist Rdwy, I-64 Off Ramp	3	09-Dec-16	14-Dec-16
C200B1030	Stg 2B - Install Drainage, I-64 Off Ramp	16	16-Dec-16	16-Jan-17
C200B1040	Stg 2B - Exc and Embank Rdwy, I-64 Off Ramp	5	13-Jan-17	20-Jan-17
C200B1050	Stg 2B - Install Underdrain, I-64 Off Ramp	2	23-Jan-17	25-Jan-17
C200B1070	Stg 2B - Place and Finish Base, I-64 Off Ramp	2	26-Jan-17	27-Jan-17
C200B1080	Stg 2B - Install Flatwork, I-64 Off Ramp	3	01-Mar-17	03-Mar-17
C200B1090	Stg 2B - AC Paving, I-64 Off Ramp	5	07-Mar-17	15-Mar-17
C200B1120	Stg 2B - Install Signage, I-64 Off Ramp	3	07-Mar-17	10-Mar-17
C200B1110	Stg 2B - Install Guardrail, I-64 Off Ramp	3	16-Mar-17	20-Mar-17
C200B1130	Stg 2B - Stripe Roadway, I-64 Off Ramp	2	16-Mar-17	17-Mar-17
C200B1170	Stg 2B - Finish Milestone	0		21-Mar-17
Robin Hood Rd		**57**	**06-Dec-16**	**21-Mar-17**
C201B1160	Stg 2B - Demo Exist Embank at I-64 Crossing, Robin Hooc	10	06-Dec-16	23-Dec-16
C201B1170	Stg 2B - Construct Retaining Wall, Robin Hood Rd & M. Hv	10	09-Dec-16	29-Dec-16
C201B1190	Stg 2B - Mill and Demo. Exist Rdwy, Robin Hood Rd & M. H	5	30-Dec-16	09-Jan-17
C201B1200	Stg 2B - Install Drainage, Robin Hood Rd & M. Hwy	11	10-Jan-17	27-Jan-17
C201B1260	Stg 2B - Construct Pier Protection Barrier Wall, Robin Hoo	8	10-Jan-17	23-Jan-17
C201B1210	Stg 2B - Install Drainage, Robin Hood Rd & M. Hwy	7	26-Jan-17	03-Feb-17
C201B1230	Stg 2B - Install Electrical / Traffic Control Crossings, Robin	6	07-Feb-17	16-Feb-17
C201B1310	Stg 2B - Finish Grade for Sidewalk, Robin Hood Rd & M. H	5	07-Feb-17	15-Feb-17
C201B1240	Stg 2B - Place and Finish Base, Robin Hood Rd & M. Hwy	6	17-Feb-17	28-Feb-17
C201B1250	Stg 2B - Install Flatwork (Partial), Robin Hood Rd & M. Hwy	5	01-Mar-17	08-Mar-17
C201B1320	Stg 2B - Place and Finish Sidewalk, Robin Hood Rd & M. H	3	01-Mar-17	03-Mar-17
C201B1270	Stg 2B - AC Paving, Robin Hood Rd & M. Hwy	5	10-Mar-17	17-Mar-17
C201B1280	Stg 2B - Install Rdwy Lighting, Robin Hood Rd & M. Hwy	5	10-Mar-17	17-Mar-17
C201B1290	Stg 2B - Install Temp. TCD and Signage, Robin Hood Rd &	5	10-Mar-17	17-Mar-17
C201B1300	Stg 2B - Temp. Stripe Roadway, Robin Hood Rd & M. Hwy	2	20-Mar-17	21-Mar-17
Stage 2D		**97**	**19-Sep-16**	**13-Mar-17**
C200D1000	Stg 2D - Install MOT + Erosion Control, Military Hwy	3	19-Sep-16	22-Sep-16
C200D1160	Stg 2D - Start Milestone	0	19-Sep-16	
C200G1010	Stg 2D - Demo Exist Embank at I-64 Crossing, Military Hwy	10	23-Sep-16	10-Oct-16
C200D1150	Stg 2D - Construct Temp Paving for I-64 On-Ramp, Militar	5	23-Sep-16	30-Sep-16
C200G1020	Stg 2D - Construct Retaining Wall, Military Hwy	10	27-Sep-16	13-Oct-16
C200D1010	Stg 2D - Mill and Demo. Exist Rdwy, Military Hwy	5	14-Oct-16	21-Oct-16
C200D1080	Stg 2D - Construct Pier Protection Barrier Wall, Military Hwy	10	14-Oct-16	31-Oct-16
C200D1020	Stg 2D - Install Drainage, Military Hwy	17	24-Oct-16	21-Nov-16
C200D1030	Stg 2D - Exc and Embank Rdwy, Military Hwy	10	11-Nov-16	29-Nov-16
C200D1040	Stg 2D - Install Underdrain, Military Hwy	5	23-Nov-16	01-Dec-16
C200D1050	Stg 2D - Install Electrical / Traffic Control Crossings, Militar	5	23-Nov-16	01-Dec-16
C200D1130	Stg 2D - Finish Grade for Sidewalk, Military Hwy	3	30-Nov-16	02-Dec-16
C200D1060	Stg 2D - Place and Finish Base, Military Hwy	5	02-Dec-16	09-Dec-16
C200D1100	Stg 2D - Install Rdwy Lighting, Military Hwy	5	12-Dec-16	21-Dec-16
C200D1110	Stg 2D - Install Temp. TCD and Signage, Military Hwy	5	12-Dec-16	21-Dec-16
C200D1090	Stg 2D - AC Paving, Military Hwy	5	01-Mar-17	08-Mar-17
C200D1140	Stg 2D - Place and Finish Sidewalk, Military Hwy	5	01-Mar-17	08-Mar-17
C200D1120	Stg 2D - Temp. Stripe Roadway, Military Hwy	2	10-Mar-17	13-Mar-17
C200D1170	Stg 2D - Finish Milestone	0		13-Mar-17
Stage 2E		**32**	**21-Mar-17**	**15-May-17**



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

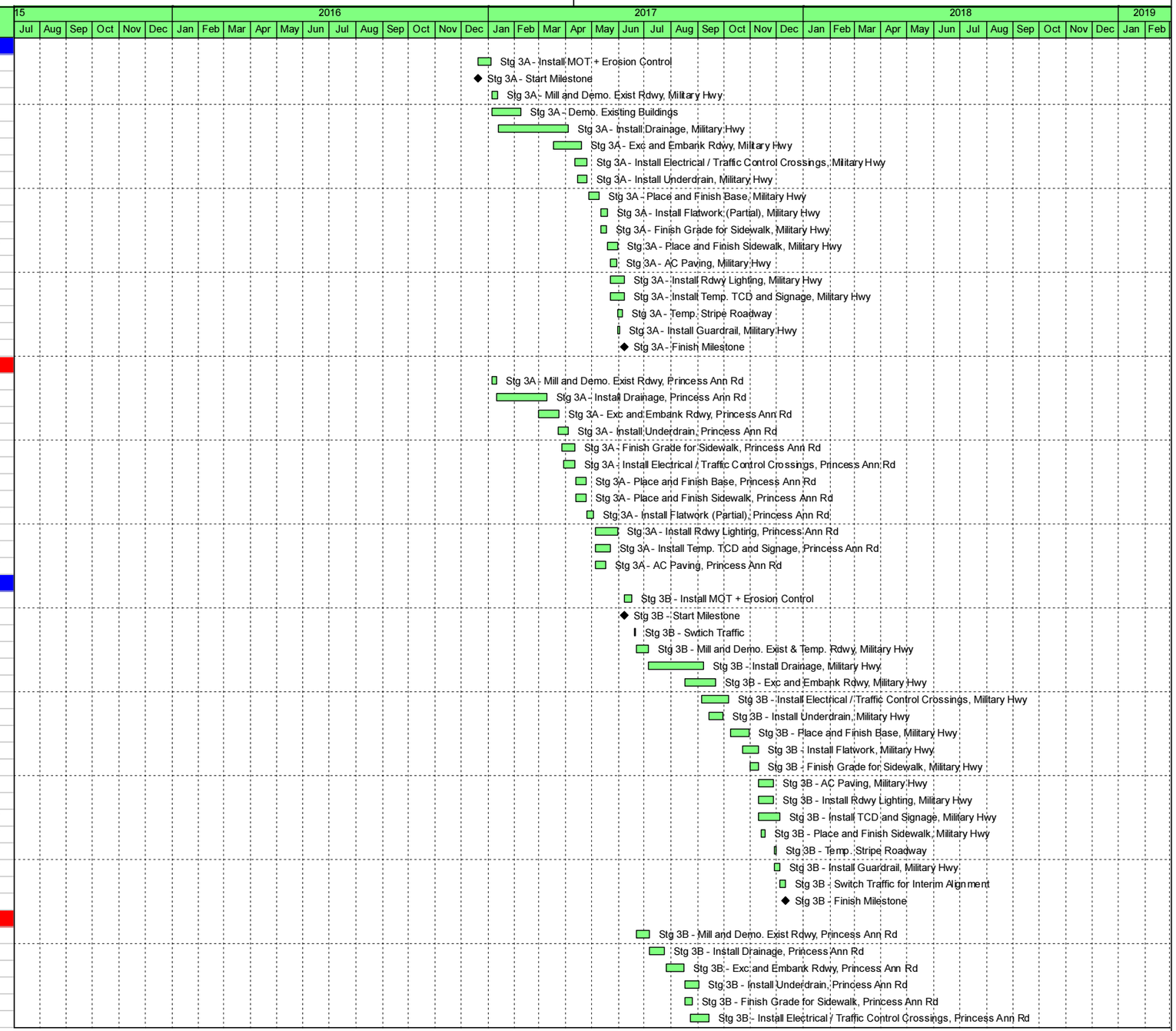
Activity ID	Activity Name	Original Duration	Start	Finish
C200E1130	Stg 2E - Start Milestone	0		21-Mar-17
C200E1000	Stg 2E - Install MOT + Erosion Control, Military Hwy	3	23-Mar-17	27-Mar-17
C200E1010	Stg 2E - Mill and Demo. Exist Rdwy, Military Hwy	3	28-Mar-17	31-Mar-17
C200E1020	Stg 2E - Install Drainage, Military Hwy	3	03-Apr-17	05-Apr-17
C200E1030	Stg 2E - Exc and Embank Rdwy, Military Hwy	7	06-Apr-17	18-Apr-17
C200E1040	Stg 2E - Install Underdrain, Military Hwy	5	14-Apr-17	20-Apr-17
C200E1050	Stg 2E - Install Electrical / Traffic Control Crossings, Militar	5	14-Apr-17	20-Apr-17
C200E1060	Stg 2E - Place and Finish Base, Military Hwy	5	21-Apr-17	28-Apr-17
C200E1070	Stg 2E - Install Flatwork (Partial), Military Hwy	3	21-Apr-17	25-Apr-17
C200E1080	Stg 2E - Construct Pier Protection Barrier Wall, Military Hv	8	21-Apr-17	03-May-17
C200E1110	Stg 2E - AC Paving + Temp Paving, Military Hwy	5	27-Apr-17	03-May-17
C200E1100	Stg 2E - Install Rdwy Lighting, Military Hwy	5	01-May-17	08-May-17
C200E1090	Stg 2E - Install Temp. TCD and Signage, Military Hwy	4	05-May-17	11-May-17
C200E1120	Stg 2E - Temp. Stripe Roadwa, Military Hwy	2	12-May-17	15-May-17
C200E1140	Stg 2E - Finish Milestone	0		15-May-17
Stage 2F		34	15-May-17	14-Jul-17
C200F1130	Stg 2F - Start Milestone	0		15-May-17
C200F1000	Stg 2F - Install MOT + Erosion Control, Military Hwy	3	17-May-17	19-May-17
C200F1010	Stg 2F - Mill and Demo. Exist Rdwy, Military Hwy	3	22-May-17	25-May-17
C200F1020	Stg 2F - Install Drainage, Military Hwy	5	26-May-17	02-Jun-17
C200F1030	Stg 2F - Exc and Embank Rdwy, Military Hwy	8	05-Jun-17	16-Jun-17
C200F1040	Stg 2F - Install Underdrain, Military Hwy	5	14-Jun-17	22-Jun-17
C200F1050	Stg 2F - Install Electrical / Traffic Control Crossings, Militar	5	14-Jun-17	22-Jun-17
C200F1060	Stg 2F - Place and Finish Base, Military Hwy	5	23-Jun-17	30-Jun-17
C200F1070	Stg 2F - Install Flatwork (Partial), Military Hwy	5	23-Jun-17	30-Jun-17
C200F1090	Stg 2F - AC Paving, Military Hwy	5	05-Jul-17	11-Jul-17
C200F1100	Stg 2F - Install Rdwy Lighting, Military Hwy	7	05-Jul-17	14-Jul-17
C200F1110	Stg 2F - Install Temp. TCD and Signage, Military Hwy	5	05-Jul-17	11-Jul-17
C200F1120	Stg 2F - Temp. Stripe Roadway, Military Hwy	2	13-Jul-17	14-Jul-17
C200F1140	Stg 2F - Finish Milestone	0		14-Jul-17
Stage 2G		66	14-Jul-17	13-Nov-17
C200G1180	Stg 2G - Start Milestone	0		14-Jul-17
C200G1000	Stg 2G - Install MOT + Erosion Control, Military Hwy	5	17-Jul-17	24-Jul-17
C200G1040	Stg 2G - Mill and Demo. Exist Rdwy, Military Hwy	6	26-Jul-17	04-Aug-17
C200G1050	Stg 2G - Install Drainage, Military Hwy	15	07-Aug-17	31-Aug-17
C200G1060	Stg 2G - Exc and Embank Rdwy, Military Hwy	8	29-Aug-17	11-Sep-17
C200G1080	Stg 2G - Install Electrical / Traffic Control Crossings, Militar	15	07-Sep-17	02-Oct-17
C200G1070	Stg 2G - Install Underdrain, Military Hwy	5	08-Sep-17	15-Sep-17
C200G1160	Stg 2G - Finish Grade for Sidewalk, Military Hwy	7	13-Sep-17	22-Sep-17
C200G1170	Stg 2G - Place and Finish Sidewalk, Military Hwy	4	25-Sep-17	29-Sep-17
C200G1090	Stg 2G - Place and Finish Base, Military Hwy	8	03-Oct-17	16-Oct-17
C200G1100	Stg 2G - Install Flatwork (Partial), Military Hwy	5	17-Oct-17	24-Oct-17
C200G1120	Stg 2G - AC Paving, Military Hwy	7	25-Oct-17	06-Nov-17
C200G1130	Stg 2G - Install Rdwy Lighting, Military Hwy	10	25-Oct-17	13-Nov-17
C200G1140	Stg 2G - Install Temp. TCD and Signage, Military Hwy	10	25-Oct-17	13-Nov-17
C200G1150	Stg 2G - Temp. Stripe Roadway, Military Hwy	3	09-Nov-17	13-Nov-17
C200G1190	Stg 2G - Finish Milestone	0		13-Nov-17
Stage 2H		77	13-Nov-17	30-Mar-18
C200H1070	Stg 2H - Start Milestone	0		13-Nov-17
C200H1000	Stg 2H - Install MOT + Erosion Control, Military Hwy	3	14-Nov-17	16-Nov-17
C200H1010	Stg 2H - Mill and Demo. Temp Rdwy, Military Hwy	3	17-Nov-17	21-Nov-17
C200H1020	Stg 2H - Install Flatwork (Partial), Military Hwy	8	22-Nov-17	05-Mar-18
C200H1030	Stg 2H - AC Paving, Tie-In, Military Hwy	8	07-Mar-18	20-Mar-18
C200H1040	Stg 2H - Install Rdwy Lighting, Military Hwy	10	07-Mar-18	23-Mar-18
C200H1050	Stg 2H - Install TCD and Signage, Military Hwy	14	07-Mar-18	30-Mar-18
C200H1060	Stg 2H - Temp. Stripe Roadway, Military Hwy	3	21-Mar-18	26-Mar-18
C200H1080	Stg 2H - Finish Milestone	0		30-Mar-18
Area 3 - Sta 127+00 to 154+00		273	20-Dec-16	23-Apr-18
C300-1050	Stg 3 - Relocate Existing Utilities	60	20-Dec-16	05-Apr-17



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

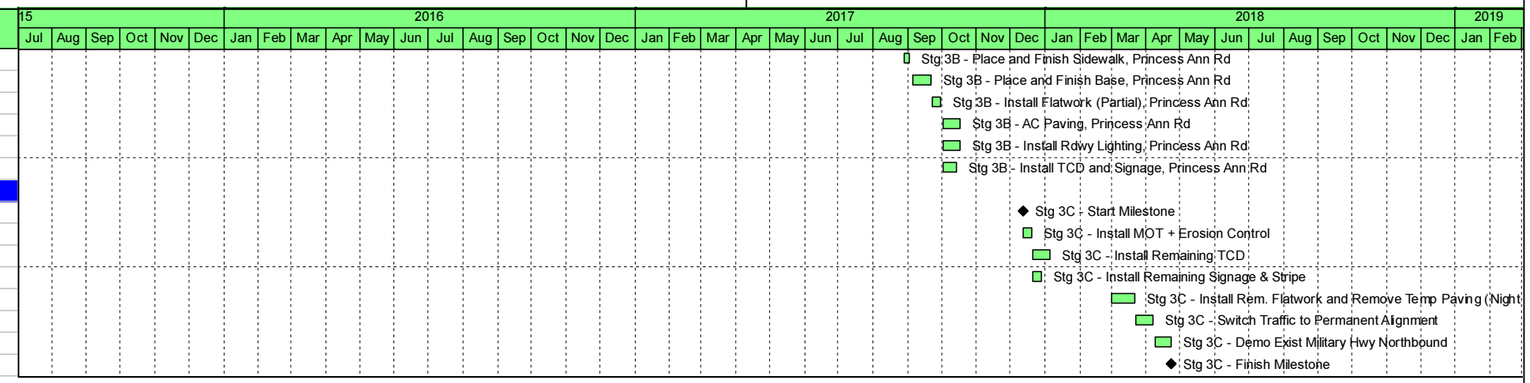
Activity ID	Activity Name	Original Duration	Start	Finish
Stage 3A		**96**	**20-Dec-16**	**07-Jun-17**
C300A1000	Stg 3A - Install MOT + Erosion Control	8	20-Dec-16	04-Jan-17
C300A1150	Stg 3A - Start Milestone	0	20-Dec-16	
C300A1010	Stg 3A - Mill and Demo. Exist Rdwy, Military Hwy	5	05-Jan-17	11-Jan-17
C300A1140	Stg 3A - Demo. Existing Buildings	20	05-Jan-17	07-Feb-17
C300A1020	Stg 3A - Install Drainage, Military Hwy	45	13-Jan-17	03-Apr-17
C300A1030	Stg 3A - Exc and Embank Rdwy, Military Hwy	20	17-Mar-17	19-Apr-17
C300A1050	Stg 3A - Install Electrical / Traffic Control Crossings, Militar	10	11-Apr-17	25-Apr-17
C300A1040	Stg 3A - Install Underdrain, Military Hwy	8	14-Apr-17	25-Apr-17
C300A1060	Stg 3A - Place and Finish Base, Military Hwy	8	27-Apr-17	09-May-17
C300A1070	Stg 3A - Install Flatwork (Partial), Military Hwy	6	11-May-17	19-May-17
C300A1120	Stg 3A - Finish Grade for Sidewalk, Military Hwy	5	11-May-17	18-May-17
C300A1130	Stg 3A - Place and Finish Sidewalk, Military Hwy	7	19-May-17	31-May-17
C300A1080	Stg 3A - AC Paving, Military Hwy	5	22-May-17	30-May-17
C300A1090	Stg 3A - Install Rdwy Lighting, Military Hwy	10	22-May-17	07-Jun-17
C300A1100	Stg 3A - Install Temp. TCD and Signage, Military Hwy	10	22-May-17	07-Jun-17
C300A1110	Stg 3A - Temp. Stripe Roadway	4	31-May-17	05-Jun-17
C300A1360	Stg 3A - Install Guardrail, Military Hwy	3	31-May-17	02-Jun-17
C300A1160	Stg 3A - Finish Milestone	0		07-Jun-17
Princess Ann Rd / Northamption Blvd		**84**	**05-Jan-17**	**31-May-17**
C301A1280	Stg 3A - Mill and Demo. Exist Rdwy, Princess Ann Rd	4	05-Jan-17	10-Jan-17
C301A1290	Stg 3A - Install Drainage, Princess Ann Rd	33	11-Jan-17	10-Mar-17
C301A1300	Stg 3A - Exc and Embank Rdwy, Princess Ann Rd	15	28-Feb-17	24-Mar-17
C301A1310	Stg 3A - Install Underdrain, Princess Ann Rd	7	23-Mar-17	03-Apr-17
C301A1390	Stg 3A - Finish Grade for Sidewalk, Princess Ann Rd	10	27-Mar-17	11-Apr-17
C301A1320	Stg 3A - Install Electrical / Traffic Control Crossings, Prince	8	29-Mar-17	11-Apr-17
C301A1330	Stg 3A - Place and Finish Base, Princess Ann Rd	8	12-Apr-17	24-Apr-17
C301A1400	Stg 3A - Place and Finish Sidewalk, Princess Ann Rd	8	12-Apr-17	24-Apr-17
C301A1340	Stg 3A - Install Flatwork (Partial), Princess Ann Rd	6	25-Apr-17	03-May-17
C301A1360	Stg 3A - Install Rdwy Lighting, Princess Ann Rd	15	05-May-17	31-May-17
C301A1370	Stg 3A - Install Temp. TCD and Signage, Princess Ann Rd	10	05-May-17	22-May-17
C301A1380	Stg 3A - AC Paving, Princess Ann Rd	7	05-May-17	17-May-17
Stage 3B		**103**	**08-Jun-17**	**11-Dec-17**
C300B1140	Stg 3B - Install MOT + Erosion Control	6	08-Jun-17	16-Jun-17
C300B1190	Stg 3B - Start Milestone	0	08-Jun-17	
C300B1180	Stg 3B - Swtich Traffic	2	19-Jun-17	20-Jun-17
C300B1000	Stg 3B - Mill and Demo. Exist & Temp. Rdwy, Military Hwy	7	22-Jun-17	05-Jul-17
C300B1010	Stg 3B - Install Drainage, Military Hwy	35	06-Jul-17	07-Sep-17
C300B1020	Stg 3B - Exc and Embank Rdwy, Military Hwy	20	17-Aug-17	21-Sep-17
C300B1040	Stg 3B - Install Electrical / Traffic Control Crossings, Militar	20	05-Sep-17	06-Oct-17
C300B1030	Stg 3B - Install Underdrain, Military Hwy	10	14-Sep-17	29-Sep-17
C300B1050	Stg 3B - Place and Finish Base, Military Hwy	12	09-Oct-17	30-Oct-17
C300B1060	Stg 3B - Install Flatwork, Military Hwy	10	23-Oct-17	09-Nov-17
C300B1110	Stg 3B - Finish Grade for Sidewalk, Military Hwy	6	31-Oct-17	10-Nov-17
C300B1070	Stg 3B - AC Paving, Military Hwy	10	10-Nov-17	27-Nov-17
C300B1080	Stg 3B - Install Rdwy Lighting, Military Hwy	10	10-Nov-17	27-Nov-17
C300B1090	Stg 3B - Install TCD and Signage, Military Hwy	15	10-Nov-17	04-Dec-17
C300B1120	Stg 3B - Place and Finish Sidewalk, Military Hwy	5	13-Nov-17	17-Nov-17
C300B1100	Stg 3B - Temp. Stripe Roadway	3	28-Nov-17	30-Nov-17
C300B1370	Stg 3B - Install Guardrail, Military Hwy	5	28-Nov-17	04-Dec-17
C300B1130	Stg 3B - Switch Traffic for Interim Alignment	3	05-Dec-17	11-Dec-17
C300B1200	Stg 3B - Finish Milestone	0		11-Dec-17
Princess Ann Rd / Northamption Blvd		**65**	**22-Jun-17**	**17-Oct-17**
C301B1000	Stg 3B - Mill and Demo. Exist Rdwy, Princess Ann Rd	8	22-Jun-17	06-Jul-17
C301B1010	Stg 3B - Install Drainage, Princess Ann Rd	10	07-Jul-17	24-Jul-17
C301B1020	Stg 3B - Exc and Embank Rdwy, Princess Ann Rd	12	26-Jul-17	15-Aug-17
C301B1030	Stg 3B - Install Underdrain, Princess Ann Rd	10	17-Aug-17	01-Sep-17
C301B1040	Stg 3B - Finish Grade for Sidewalk, Princess Ann Rd	5	17-Aug-17	25-Aug-17
C301B1050	Stg 3B - Install Electrical / Traffic Control Crossings, Prince	12	23-Aug-17	13-Sep-17



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

Activity ID	Activity Name	Original Duration	Start	Finish
C301B1060	Stg 3B - Place and Finish Sidewalk, Princess Ann Rd	5	28-Aug-17	01-Sep-17
C301B1070	Stg 3B - Place and Finish Base, Princess Ann Rd	10	05-Sep-17	21-Sep-17
C301B1080	Stg 3B - Install Flatwork (Partial), Princess Ann Rd	5	22-Sep-17	29-Sep-17
C301B1090	Stg 3B - AC Paving, Princess Ann Rd	10	02-Oct-17	17-Oct-17
C301B1100	Stg 3B - Install Rdwy Lighting, Princess Ann Rd	10	02-Oct-17	17-Oct-17
C301B1110	Stg 3B - Install TCD and Signage, Princess Ann Rd	8	02-Oct-17	13-Oct-17
Stage 3C		**74**	**12-Dec-17**	**23-Apr-18**
C300C1490	Stg 3C - Start Milestone	0	12-Dec-17	
C300C1520	Stg 3C - Install MOT + Erosion Control	5	12-Dec-17	19-Dec-17
C300C1510	Stg 3C - Install Remaining TCD	10	21-Dec-17	05-Jan-18
C300-1020	Stg 3C - Install Remaining Signage & Stripe	5	21-Dec-17	28-Dec-17
C300-1000	Stg 3C - Install Rem. Flatwork and Remove Temp Paving (	12	01-Mar-18	21-Mar-18
C300-1030	Stg 3C - Switch Traffic to Permanent Alignment	10	23-Mar-18	06-Apr-18
C300-1040	Stg 3C - Demo Exist Military Hwy Northbound	8	09-Apr-18	23-Apr-18
C300C1500	Stg 3C - Finish Milestone	0		23-Apr-18



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

MILITARY
PRINCESS ANNE RD

MILITARY
PRINCESS ANNE RD

Attachment 4.0.11

Letter of Submittal and Attachments Checklist

ATTACHMENT 4.0.1.1

Military Highway Continuous Flow Intersection

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Offerors shall furnish a copy of this Technical Proposal Checklist, with the page references added, with the Technical Proposal.

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Letter of Submittal and Attachments Checklist	Attachment 4.0.1.1	Section 4.0.1.1	
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	**Volume I Appendix**
Letter of Submittal	NA	Sections 4.1	
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	**Volume 1 Page 1**
Offeror's official representative information	NA	Section 4.1.1	**Volume I Page 1**
Authorized representative's original signature	NA	Section 4.1.1	**Volume I Page 2**
Declaration of intent	NA	Section 4.1.2	**Volume 1 Page 1**
120 day declaration	NA	Section 4.1.3	**Volume I Page 1**
Principal Officer information	NA	Section 4.1.5	**Volume I Page 2**
Final Completion Date	NA	Section 4.1.6	**Volume I Page 2**
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.7	**Volume I Appendix**
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.8	**Volume I Appendix**

ATTACHMENT 4.0.1.1

Military Highway Continuous Flow Intersection

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Offeror's Qualifications	NA	Section 4.2	
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT	NA	Section 4.2.1	**Volume I Page 3**
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	**Volume 1 Page 4**
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	**N/A**
Conceptual Roadway Plans-Plan View	NA	Section 4.2.2	**Volume II**
Conceptual Roadway Plans-Typical Sections	NA	Section 4.2.2	**Volume II**
Disadvantaged Business Enterprises (DBE)	NA	Section 4.1.9	
Written statement of percent DBE participation	NA	Section 4.1.9	**Volume I Page 2**
Proposal Schedule	NA	Section 4.2.3	
Proposal Schedule	NA	Section 4.2.3	**Volume I**
Proposal Schedule Narrative	NA	Section 4.2.3	**Volume I Pages 8-17**
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.2.3	**CD-ROM**

Attachment 3.6

Form C-78-RFP

Form C-78-RFP

ATTACHMENT 3.6

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

RFP NO. C00001765DB81

PROJECT NO.: 0165-122-V04

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 3.6, 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 April 17, 2015 – RFP
   (Date)
2. Cover letter of July 2, 2015- Addendum #1
   (Date)
3. Cover letter of July 13, 2015- Addendum #2
   (Date)
4. Cover letter of July 22, 2015- Addendum #3
   (Date)

SIGNATURE

July 27, 2015
DATE

Robert E. Watt
PRINTED NAME

Pursuit Manager
TITLE

Attachment 9.3.1

Proposal Payment Agreement

ATTACHMENT 9.3.1
PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this "Agreement") is made and entered into as of this ____ day of _____, 20__, by and between the Virginia Department of Transportation ("VDOT"), and _____ ("Offeror").

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications ("SOQs") pursuant to VDOT's December 12, 2014 Request for Qualifications ("RFQ") and was invited to submit proposals in response to a Request for Proposals ("RFP") for the Military Highway Continuous Flow Intersection Project Numbers 0013-122-V03, 0165-122-V04, 0165-122-181 ("Project"), under a design-build contract with VDOT ("Design-Build Contract"); and

WHEREAS, as part of the procurement process for the Project, Offeror has already provided and/or furnished to VDOT, and may continue to provide and/or furnish to VDOT, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed verbally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Offeror's proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively "Offeror's Intellectual Property"); and

WHEREAS, VDOT is willing to provide a payment to Offeror, subject to the express conditions stated in this Agreement, to obtain certain rights in Offeror's Intellectual Property, provided that Offeror submits a proposal that VDOT determines to be responsive to the RFP ("Offeror's Proposal"), and either (a) Offeror is not awarded the Design-Build Contract; or (b) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror; and

WHEREAS, Offeror wishes to receive the payment offered by VDOT, in exchange for granting VDOT the rights set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

1. VDOT's Rights in Offeror's Intellectual Property. Offeror hereby conveys to VDOT all rights, title and interest, free and clear of all liens, claims and encumbrances, in Offeror's Intellectual Property, which includes, without restriction or limitation, the right of VDOT, and anyone contracting with VDOT, to incorporate any ideas or information from Offeror's Intellectual Property into: (a) the Design-Build Contract and the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by VDOT. In receiving all rights, title and interest in Offeror's Intellectual Property, VDOT is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Offeror's Intellectual Property, and Offeror agrees that it shall, at the request of VDOT, execute all papers and perform all other acts that may be necessary to ensure that VDOT's rights, title and interest in Offeror's Intellectual Property are protected. The rights conferred herein to VDOT include, without limitation, VDOT's ability to use Offeror's Intellectual Property without the obligation to notify or seek permission from Offeror.

2. Exclusions from Offeror's Intellectual Property. Notwithstanding Section 1 above, it is understood and agreed that Offeror's Intellectual Property is not intended to include, and Offeror does not convey any rights to, the Escrow Proposal Documents submitted by Offeror in accordance with the RFP.

3. Proposal Payment. VDOT agrees to pay Offeror the lump sum amount of **Twenty Five Thousand and 00/100 Dollars ($25,000.00)** ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.

4. Payment Due Date. Subject to the conditions set forth in this Agreement, VDOT will make payment of the Proposal Payment to the Offeror within forty-five (45) days after the later of: (a) notice from VDOT that it has awarded the Design-Build Contract to another Offeror; or (b) notice from VDOT that the procurement for the Project has been cancelled and that there will be no Contract Award.

5. Effective Date of this Agreement. The rights and obligations of VDOT and Offeror under this Agreement, including VDOT's ownership rights in Offeror's Intellectual Property, vests upon the date that Offeror's Proposal is submitted to VDOT. Notwithstanding the above, if Offeror's Proposal is determined by VDOT, in its sole discretion, to be nonresponsive to the RFP, then Offeror is deemed to have waived its right to obtain the Proposal Payment, and VDOT shall have no obligations under this Agreement.

6. **Indemnity**. Subject to the limitation contained below, Offeror shall, at its own expense, indemnify, protect and hold harmless VDOT and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity ("Claims") of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or wilful misconduct of Offeror or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Offeror's obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity shall not apply with respect to any Claims caused by or resulting from the sole negligence or wilful misconduct of VDOT, or its agents, directors, officers, employees, representatives or contractors.

7. **Assignment**. Offeror shall not assign this Agreement, without VDOT's prior written consent, which consent may be given or withheld in VDOT's sole discretion. Any assignment of this Agreement without such consent shall be null and void.

8. **Authority to Enter into this Agreement**. By executing this Agreement, Offeror specifically represents and warrants that it has the authority to convey to VDOT all rights, title, and interest in Offeror's Intellectual Property, including, but not limited to, those any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Offeror's Intellectual Property, free and clear of all liens, claims and encumbrances.

9. **Miscellaneous**.

a. Offeror and VDOT agree that Offeror, its team members, and their respective employees are not agents of VDOT as a result of this Agreement.

b. Any capitalized term used herein but not otherwise defined shall have the meanings set forth in the RFP.

c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.

d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the Commonwealth of Virginia, validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

e. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia.

IN WITNESS WHEREOF, this Agreement has been executed and delivered as of the day and year first above written.

VIRGINIA DEPARTMENT OF TRANSPORTATION

By: _____

Name: _____

Title: _____

The Lane Construction Corporation

By: _____

Name: Robert E. Watt

Title: Pursuit Manager

Attachment 11.8.6(a)

Debarment Form - Primary Covered Transactions

ATTACHMENT 11.8.6(a) CERTIFICATION REGARDING DEBARMENT PRIMARY COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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.

	June 26, 2015	Pursuit Manager
Signature	Date	Title

The Lane Construction Corporation
Name of Firm

Attachment 11.8.6(b)

Debarment Form - Lower Tier Covered Transactions

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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 06/26/2015 Date

Louis-Martin Richer, Chief Risk and Ethics Officer of WSP Global Inc.**
Title

Parsons Brinckerhoff, Inc., a 100% wholly owned subsidiary of WSP Global Inc.
Name of Firm

**On October 31, 2014, WSP Global Inc. acquired Parsons Brinckerhoff Group LLC and it subsidiaries, inclusive of Parsons Brinckerhoff, Inc.

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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.

R Curtis Pay	June 26, 2015	Managing Partner
Signature	Date	Title

Appraisal Review Specialists, LLC
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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	Date 6/26/15	Title President

Athavale, Lystad & Associates, Inc.
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	June 26,2015	Director
Signature	Date	Title

Cardno, Inc.
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	6/26/2015	***Appraiser/ Partner***
Signature	Date	Title

Crider, Bouye, Elliott & Goodwin, LLC
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	June 26, 2015	Senior Vice President
Signature	Date	Title

EEE Consulting, Inc.
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	June 26, 2015	President
Signature	Date	Title

Engineering and Testing Services, Inc
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

Chemelli D. Katton 6/26/2015 Principal Geotechnical Engineer

Signature Date Title

Geotechnical Environmental & Testing Solutions, Inc. d/b/a GET Solutions, Inc.

Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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 Date 6/26/15 Title VP/Dir. CM Division

NXL Construction Services, Inc.
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	June 26, 2015	Chief Operating Officer
Signature	Date	Title

O. R. Colan Associates of Florida, LLC
Name of Firm

CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS
(To be completed by a Sub-consultant)

Project: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	June 26,2015	President
Signature	Date	Title

Precision Measurements, Inc.
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	6/26/15	Managing Member
Signature	Date	Title

Property Title & Escrow LLC

Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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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.

	June 26, 2015	Partner
Signature	Date	Title

Pulsar Advertising, Inc.

Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181

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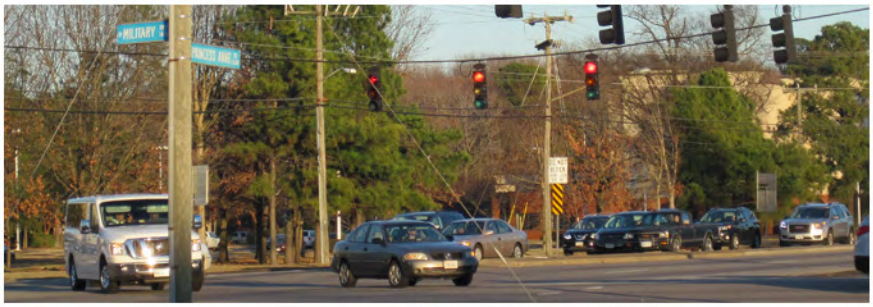
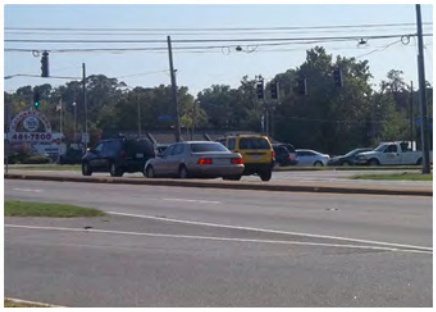
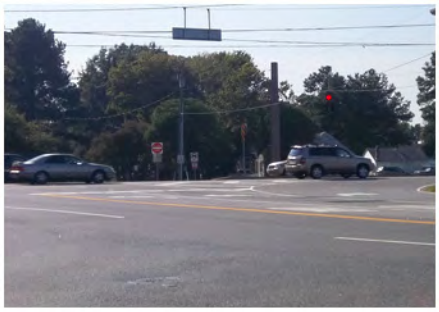
The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Claudette Nichols	26 June 2015	President
Signature	Date	Title

Solstice Environmental, LLC
Name of Firm



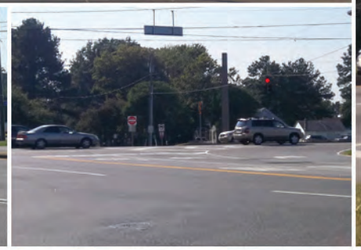




The Lane Construction Corporation
14500 Avion Parkway, Suite 200
Chantilly, VA 20151
www.laneconstruct.com

LANE

Letter of Submittal and Attachments: VOLUME II – PLANS



A DESIGN-BUILD PROJECT

Military Highway Continuous Flow Intersection

From: 0.023 Miles South of Lowery Road
To: 0.230 Miles North of Interstate 64
Norfolk, Virginia

State Project No.: 0013-122-V03, 0165-122-V04, 0165-122-181
Federal Project No.: STP-5A03 (755)
Contract ID Number: C00001765DB81

July 27, 2015

Submitted to: Virginia Department of Transportation

Submitted by: The Lane Construction Corporation

In association with: Parsons Brinckerhoff

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 9783, 1765, 84243

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

MILITARY HIGHWAY CONTINUOUS FLOW INTERSECTION
CITY OF NORFOLK
FROM: 0.023 MILES SOUTH OF LOWERY ROAD
TO: 0.230 MILES NORTH OF ROUTE I-64

FHWA 534 DATA 4E003

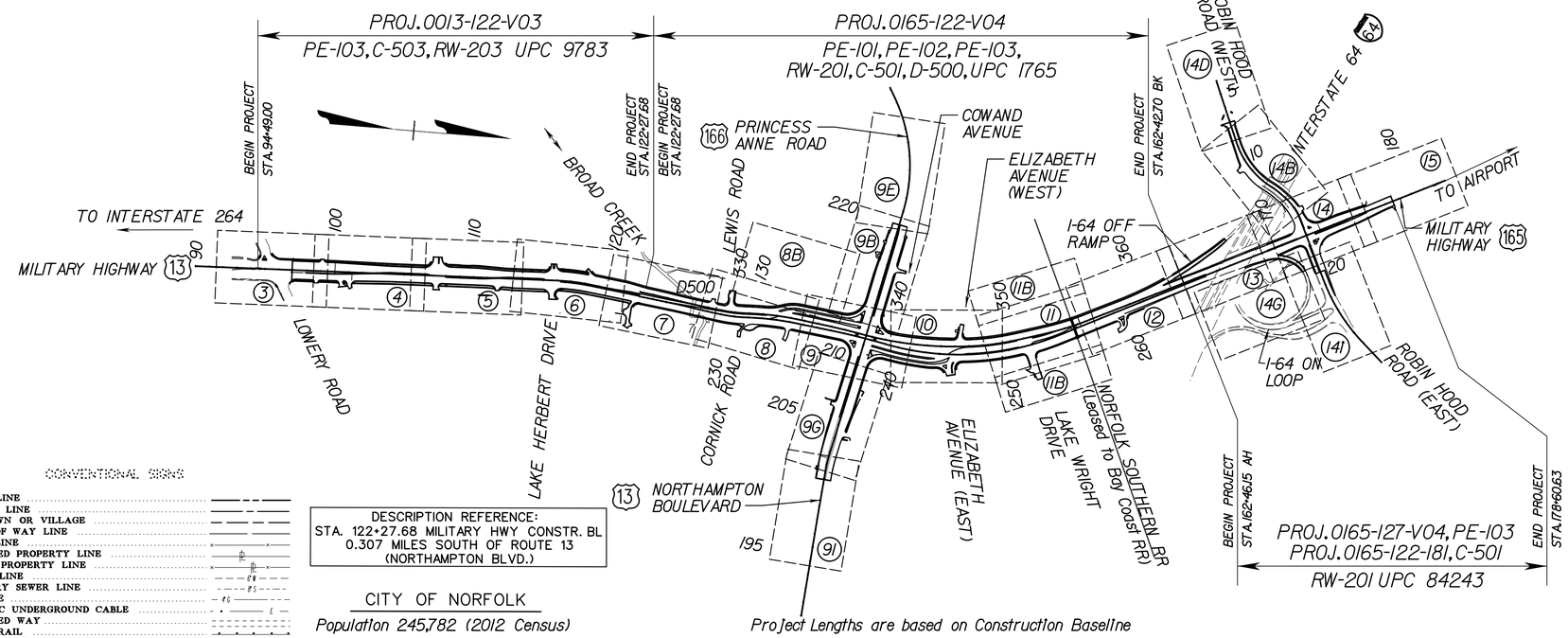
STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	See Tabulations Below For Section Numbers	13 165	0013-122-V03 0165-122-V04 0165-122-181 See Tabulations Below For Section Numbers	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA		
	MAINLINE	CONNECTION
From: To:	Route 165 - Military Highway	Route 166 - Princess Anne Rd. Route 13 - Northampton Blvd.
FUNCTIONAL CLASSIFICATION	URBAN OTHER PRINCIPAL ARTERIAL, GS-5 LEVEL	URBAN OTHER PRINCIPAL ARTERIAL, GS-5 LEVEL
MIN. DESIGN SPEED	45 MPH	40 MPH
ADT (2016)	48,400	36,900
ADT (2038)	58,600	44,700
DHV	5,400	5,400
D (%) (design hour)	60/40	60/40
T (%) (design hour)	3%	3%
V (MPH)	*	*
TC STD.	TC-5.11ULS	TC-5.11ULS
GEOMETRIC STD.	GS-5	GS-5
VERTICAL CLR.	16'-6"	

* See Plan and Profile Sheets for Horizontal and Vertical Design Speeds.

FUNCTIONAL CLASSIFICATION FOR CORNICK ROAD
URBAN LOCAL STREET (GS-8) LEVEL, 25 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR LEWIS ROAD
URBAN LOCAL STREET (GS-8) LEVEL, 25 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR COWAND AVENUE
URBAN LOCAL STREET (GS-8) LEVEL 25 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR ELIZABETH AVENUE
URBAN LOCAL STREET (GS-8) LEVEL 25 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR LAKE WRIGHT DRIVE
URBAN LOCAL STREET (GS-8) LEVEL 25 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR I-64 OFF RAMP
INTERCHANGE RAMP (GS-R) LEVEL 45 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR I-64 ON RAMP
INTERCHANGE RAMP (GS-R) LEVEL 25 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR ROBIN HOOD ROAD WEST
URBAN MINOR ARTERIAL (GS-6) LEVEL 30 MPH MIN. DESIGN SPEED*
VERTICAL CLR. 14'-6"
FUNCTIONAL CLASSIFICATION FOR ROBIN HOOD ROAD EAST
URBAN MINOR ARTERIAL (GS-6) LEVEL 35 MPH MIN. DESIGN SPEED*
FUNCTIONAL CLASSIFICATION FOR ROBIN HOOD ROAD AUX. LANE
URBAN LOCAL STREET (GS-R) LEVEL 20 MPH MIN. DESIGN SPEED*

EXCEPTION TO MAINLINE VERTICAL CLEARANCE			
Sta. To Sta.	Vertical Clearance	Reason for Exception	Approval Date
164+25 to 168+00	14'-6"	Existing Clearance	01/30/15



DESCRIPTION REFERENCE:
STA. 122+27.68 MILITARY HWY CONSTR. BL
0.307 MILES SOUTH OF ROUTE 13
(NORTHAMPTON BLVD.)

DESCRIPTION REFERENCE:
STA. 162+42.70 MILITARY HWY CONSTR. BL
0.454 MILES NORTH OF ROUTE 13
(NORTHAMPTON BLVD.)

RFP PLANS
For Information Only

DATE: 07/27/15

CITY OF NORFOLK
Population 245,782 (2012 Census)

Project Lengths are based on Construction Baseline

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

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	PPMS NO.	EQUALITIES FEET	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	TYPE PROJECT	DESCRIPTION
0013-122-V03	PE - 103	STP-5403(929)	PENG	9783		2,778.68	0.526	2,778.68	0.526	PRELIM.ENGR.	From: 0.023 Miles South of Lowery Rd. To: 0.307 Miles South of Northampton Blvd.
	RW - 203	STP-5A03(102)	ROWA	9783		2,778.68	0.526	2,778.68	0.526	RIGHT OF WAY	
	C - 503	STP-5A03(104)	1 000	9783		2,778.68	0.526	2,778.68	0.526	CONSTRUCTION	
0165-122-V04	PE - 101	STP-5403(965)	PENG	1765		4,015.02	0.760	4,015.02	0.760	PRELIM.ENGR.	From: 0.307 Miles South of Northampton Blvd. To: 0.454 Miles North of Northampton Blvd.
	PE - 102	STP-5403(965)	PENG	1765		4,015.02	0.760	4,015.02	0.760	PRELIM.ENGR.	
	RW - 201	STP-5403(687)	ROWA	1765		4,015.02	0.760	4,015.02	0.760	RIGHT OF WAY	
	C - 501		1 000	1765		4,015.02	0.760	4,015.02	0.760	CONSTRUCTION	
	D - 500			1765						PRELIM.ENGR.	Broad Creek Culvert under Military Highway
	PE - 103		PENG	1765		3,381.43	0.640	3,381.43	0.640	PRELIM.ENGR.	From: 0.143 Miles North of Northampton Blvd. To: 0.254 Miles North of Route I-64
0165-122-181	RW - 201	STP-5403(104)	ROWA	84243		3,381.43	0.640	3,381.43	0.640	RIGHT OF WAY	
	C - 501		1 000	84243		1,614.48	0.306	1,614.48	0.306	CONSTRUCTION	From: 0.454 Miles North of Northampton Blvd. To: 0.230 Miles North of Route I-64

SCALE
0' 500' 1,000'

LANE | PARSONS BRINCKERHOFF

Copyright 2014, Commonwealth of Virginia

PROJECT MANAGER_Frank_Fabian_P.E._(757) 494-5477_(Hampton Roads)
SURVEYED BY, DATE _Danny_Williams_L.S._(757) 925-2657_(Hampton Roads), Updated 03/13/2015
DESIGN BY_Parsons_Brinckerhoff_(757) 466-1732
SUBSURFACE UTILITY BY, DATE _Cardno_TBE_(757) 467-2100 03/24/2015

19:56
23-JUL-2015
\\pwdcs\pwdcswr1\49602\102784_hdl76501.dgn

PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A

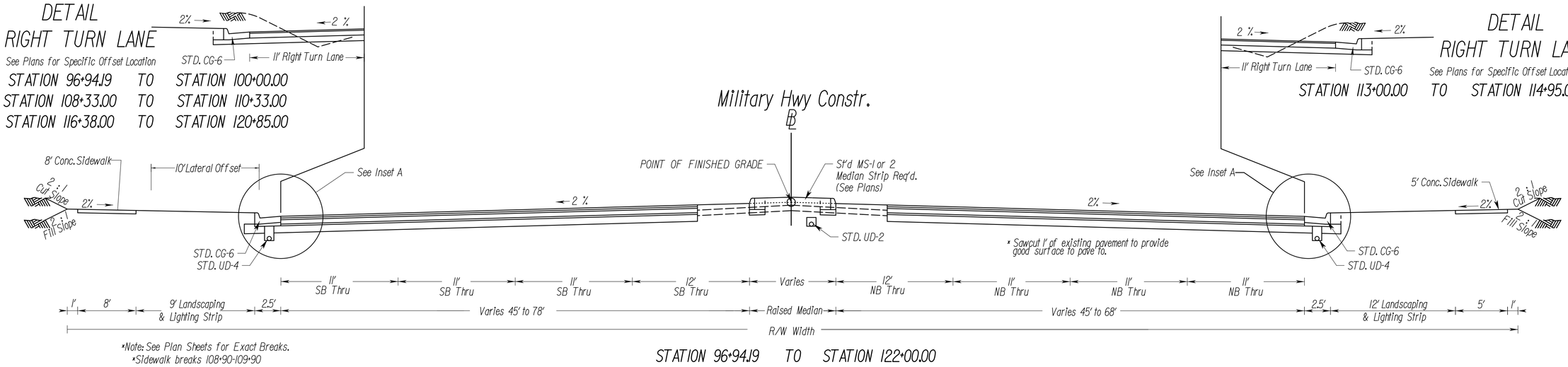
PRELIMINARY TYPICAL SECTION
MILITARY HIGHWAY MAINLINE

23-JUL-2015

DETAIL RIGHT TURN LANE

See Plans for Specific Offset Location

STATION 96+94.19 TO STATION 100+00.00
STATION 108+33.00 TO STATION 110+33.00
STATION 116+38.00 TO STATION 120+85.00



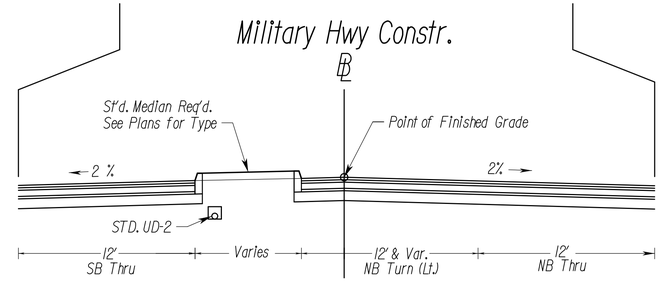
*Note: See Plan Sheets for Exact Breaks.
*Sidewalk breaks 108+90-109+90

STATION 96+94.19 TO STATION 122+00.00

DETAIL RIGHT TURN LANE

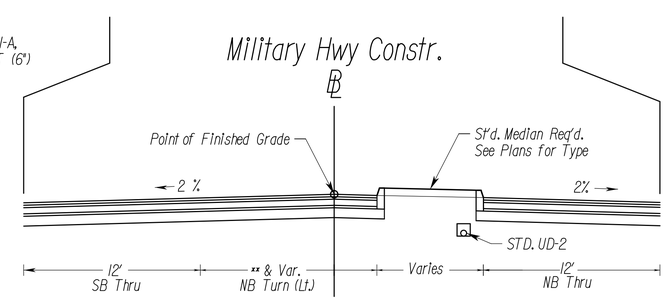
See Plans for Specific Offset Location

STATION 113+00.00 TO STATION 114+95.00



See Plans for Specific Offset Location

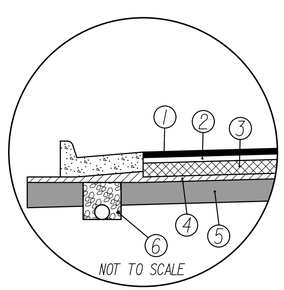
STATION 104+00.00 TO STATION 106+70.00
STATION 112+65.00 TO STATION 115+04.00



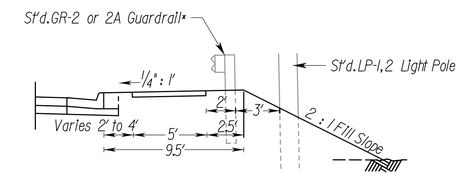
See Plans for Specific Offset Location

STATION 96+94.19 TO STATION 100+00.00 (xx = 24')
STATION 108+07.00 TO STATION 110+55.00 (xx = 12')
STATION 116+38.00 TO STATION 119+25.00 (xx = 12')

INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4



SIDEWALK SPACE DETAIL (WHERE LANDSCAPE BUFFER REMOVED)

* Where Guardrail not required, the 2.5' strip behind the sidewalk is to be reserved for Lighting conduit and poles.

For Areas where the Sidewalk Space was reduced to remove Landscape/Lighting Strip, see Plan Sheets 12,13,14, and 15. For Details Of Sidewalk Space See Detail Shown Above.

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A

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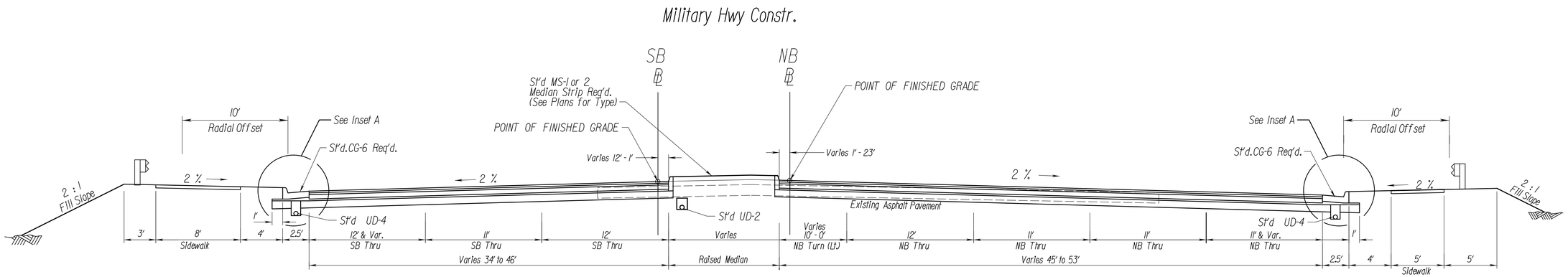
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(1)

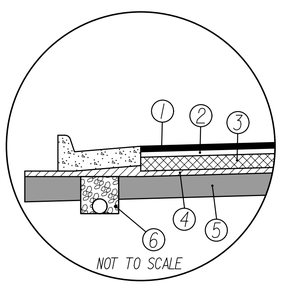
PRELIMINARY TYPICAL SECTIONS
MILITARY HIGHWAY MAINLINE

23-JUL-2015



STATION 223+00.00 TO STATION 232+58.20

INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO. 21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(1)

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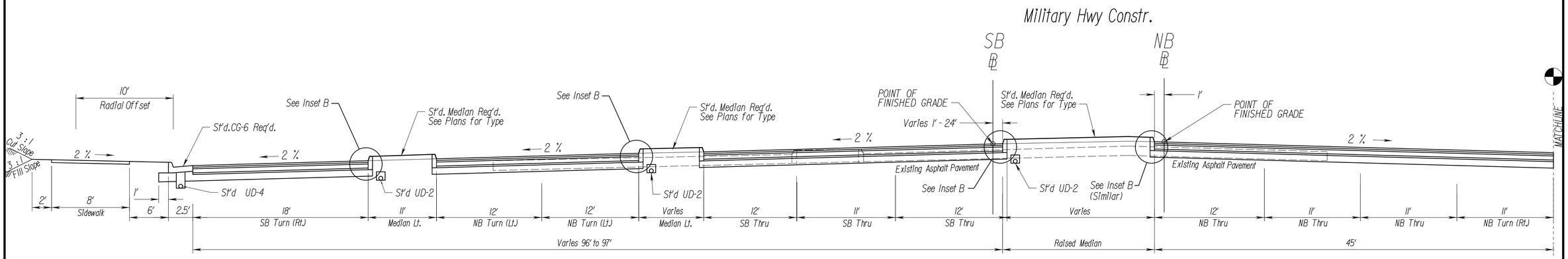
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

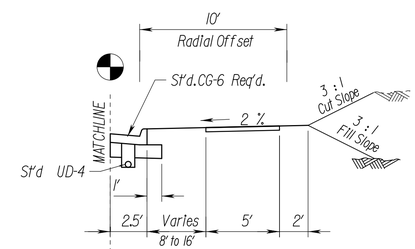
PRELIMINARY TYPICAL SECTIONS
MILITARY HIGHWAY MAINLINE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(2)

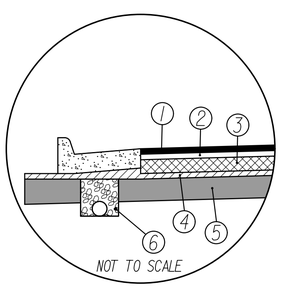
23-JUL-2015



STATION 232+58.20 TO STATION 239+00.00

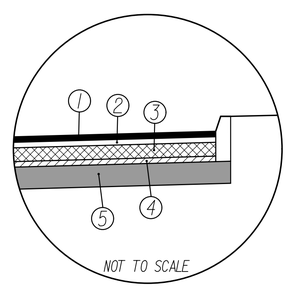


INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

INSET B



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
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RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(2)

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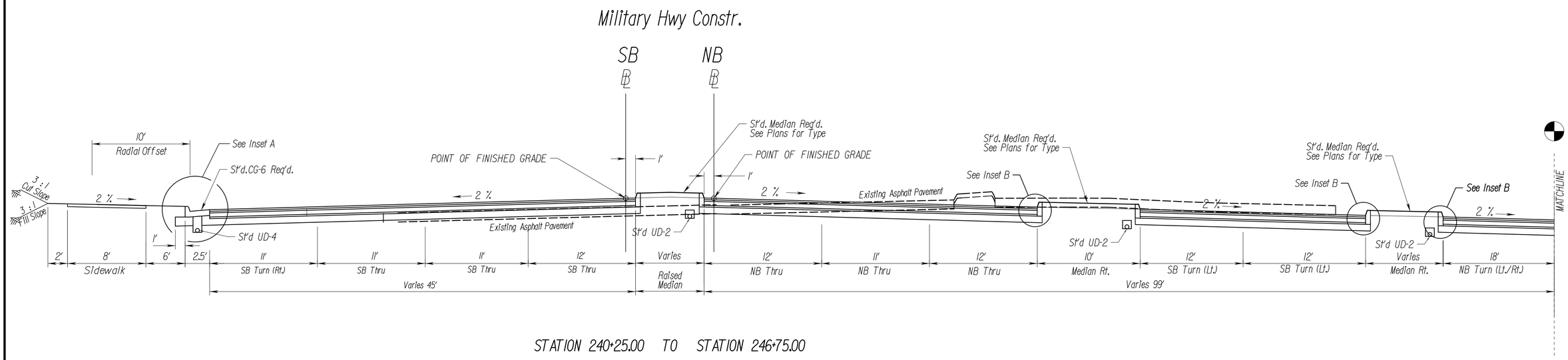
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

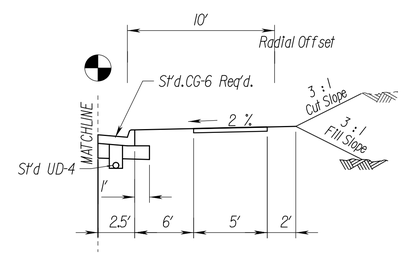
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(3)

PRELIMINARY TYPICAL SECTIONS
MILITARY HIGHWAY MAINLINE

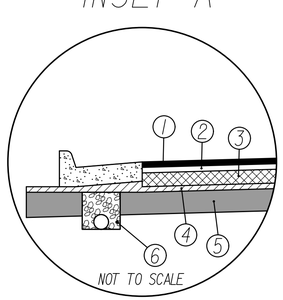
23-JUL-2015



STATION 240+25.00 TO STATION 246+75.00

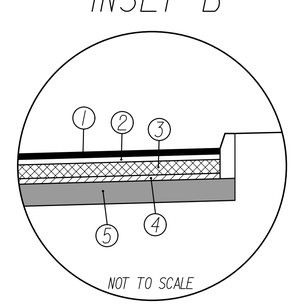


INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

INSET B



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
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5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(3)

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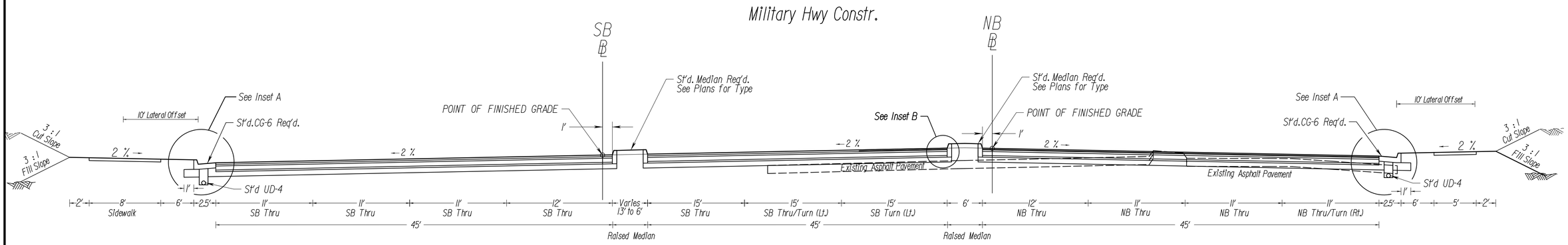
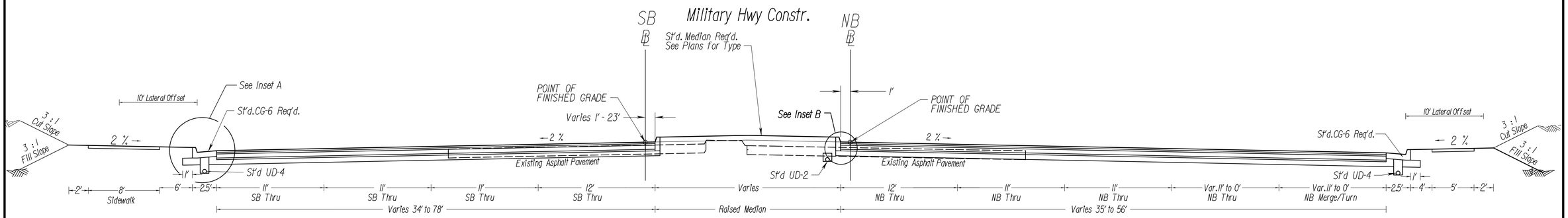
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-0732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(4)

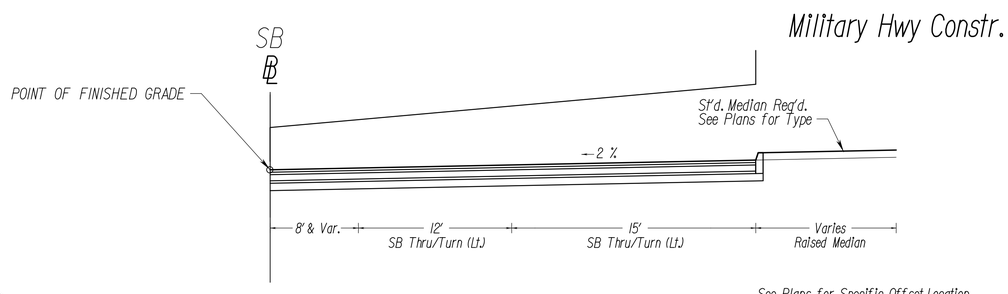
PRELIMINARY TYPICAL SECTIONS
MILITARY HIGHWAY MAINLINE



STATION 246+75.00 TO STATION 250+75.00



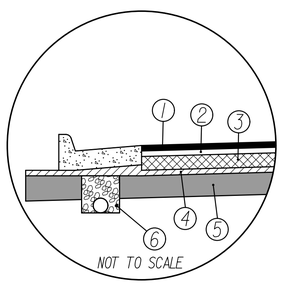
STATION 250+75.00 TO STATION 265+11.89



See Plans for Specific Offset Location

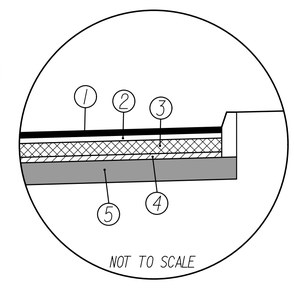
STATION 251+90.00 TO STATION 254+70.00

INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE 1, NO. 21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

INSET B



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
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4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE 1, NO. 21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(4)

23-JUL-2015

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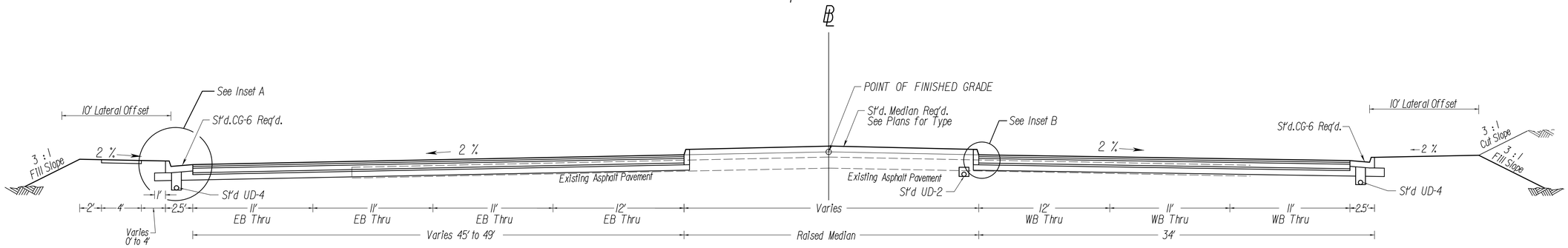
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(5)

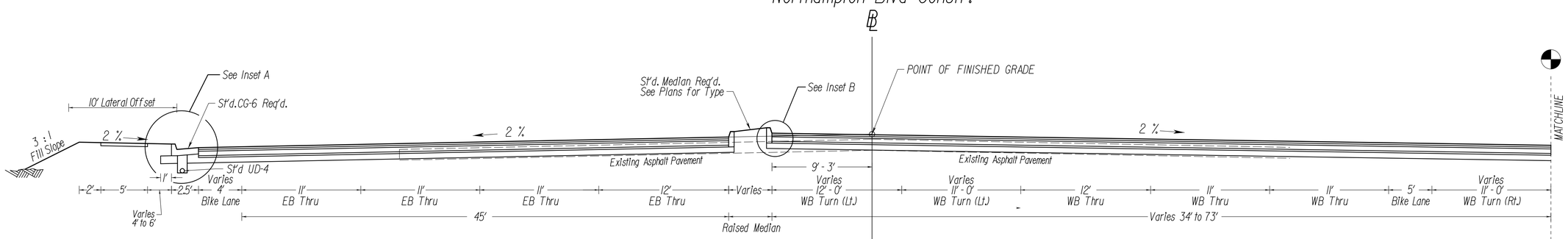
PRELIMINARY TYPICAL SECTIONS
NORTHAMPTON BLVD

Northampton Blvd Constr.

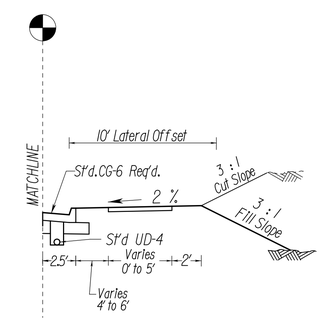


STATION 199+92.13 TO STATION 202+75.00

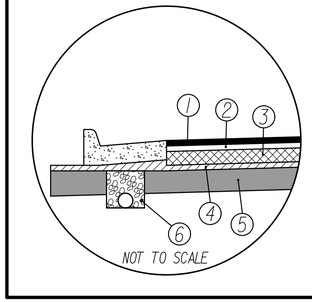
Northampton Blvd Constr.



STATION 202+75.00 TO STATION 209+20.00

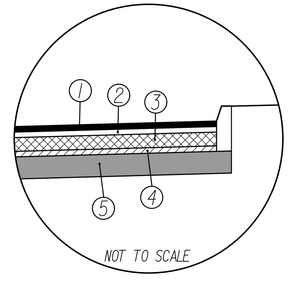


INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

INSET B



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(5)

23-JUL-2015

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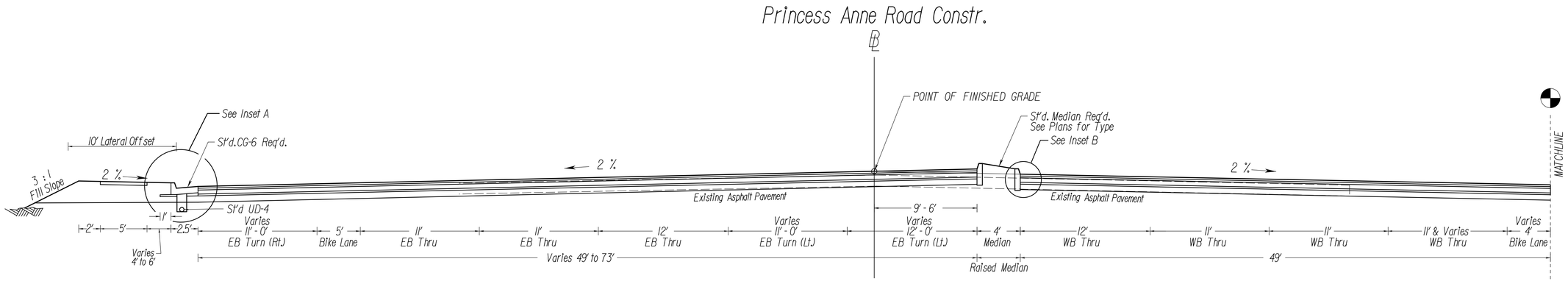
PROJECT MANAGER Frank Fabian, (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams, L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

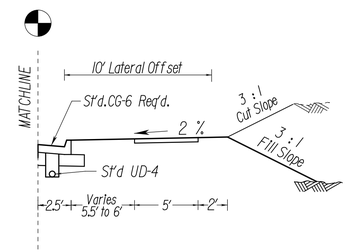
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(6)

PRELIMINARY TYPICAL SECTIONS
PRINCESS ANNE ROAD

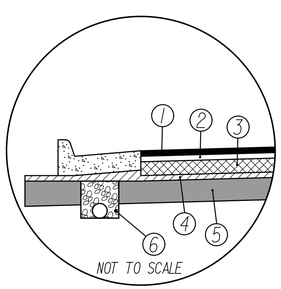
23-JUL-2015



STATION 209+15.00 TO STATION 219+00.00



INSET A



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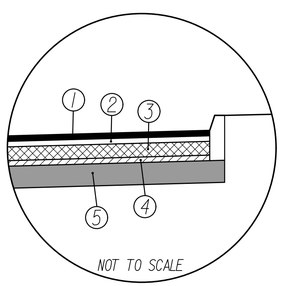
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

INSET B



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
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RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(6)

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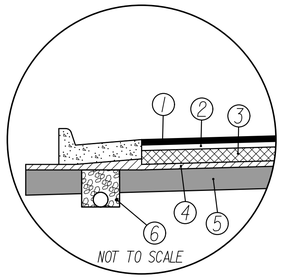
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

PRELIMINARY TYPICAL SECTION
MILITARY HIGHWAY MAINLINE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(7)

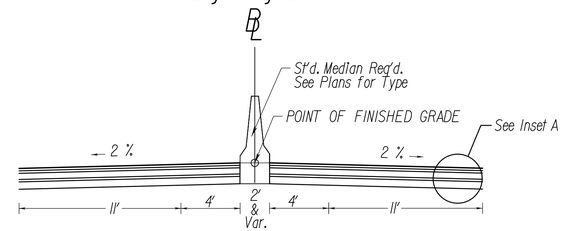
23-JUL-2015

INSET A



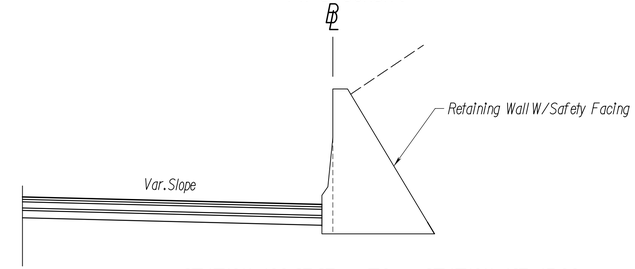
1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO. 21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

Military Hwy Constr.

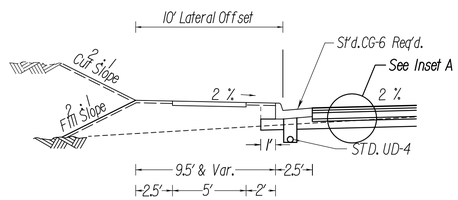


STATION 164+81.01 TO STATION 165+18.14
(Median Barrier)

TW-6 Constr.

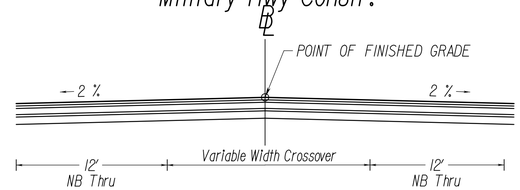


STATION 166+97.97 TO STATION 167+45.00
(Mod. Retaining Wall)

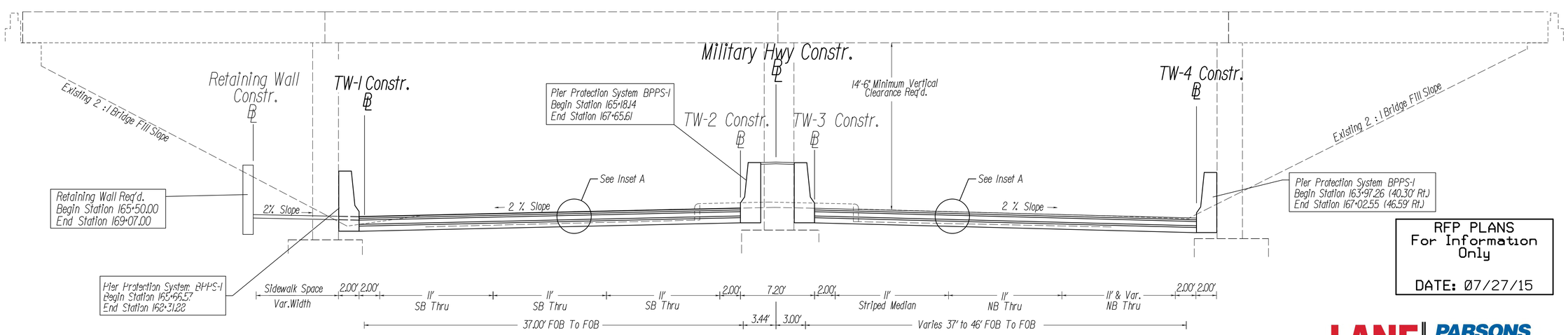


STATION 164+25.40 TO STATION 165+50.00
Sidewalk Space Design

Military Hwy Constr.



STATION 164+25.40± TO STATION 164+81.01
(Crossover)



STATION 164+25.40 TO STATION 168+00.00

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(7)

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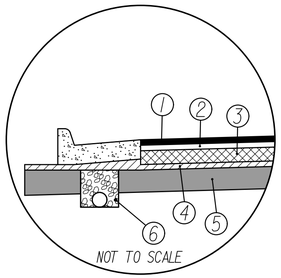
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(8)

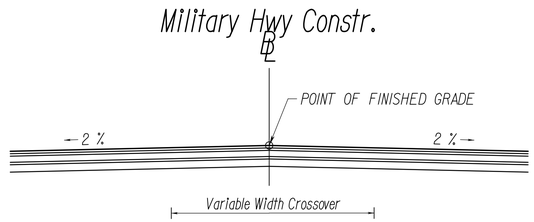
PRELIMINARY TYPICAL SECTION
MILITARY HIGHWAY MAINLINE

23-JUL-2015

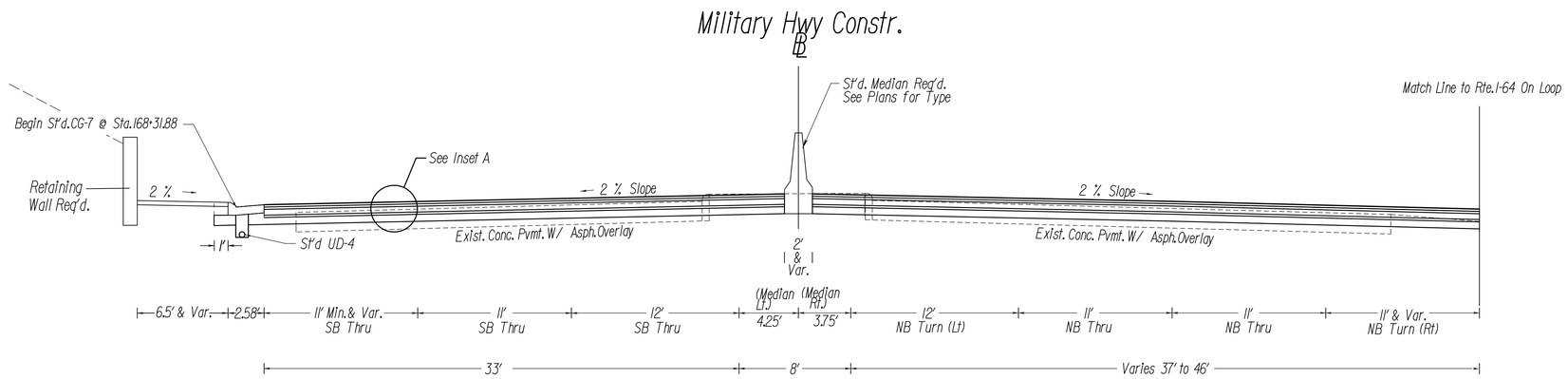
INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4



STATION 168+25.00 TO STATION 168+90.00
(Crossover)



STATION 168+00.00 TO STATION 168+90.00

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(8)

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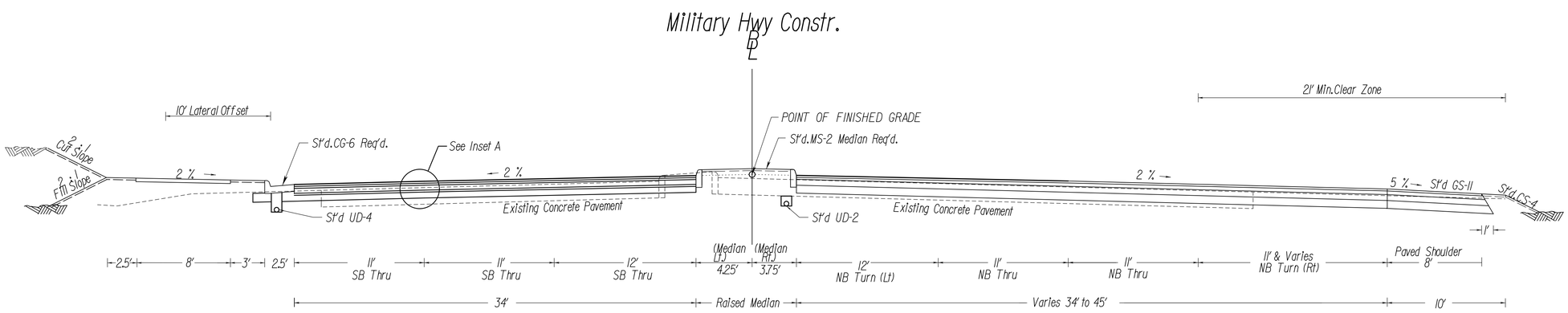
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

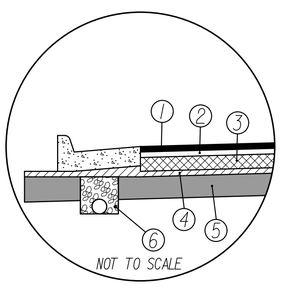
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(9)

23-JUL-2015



STATION 168+90.00 TO STATION 171+25.00

INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(9)

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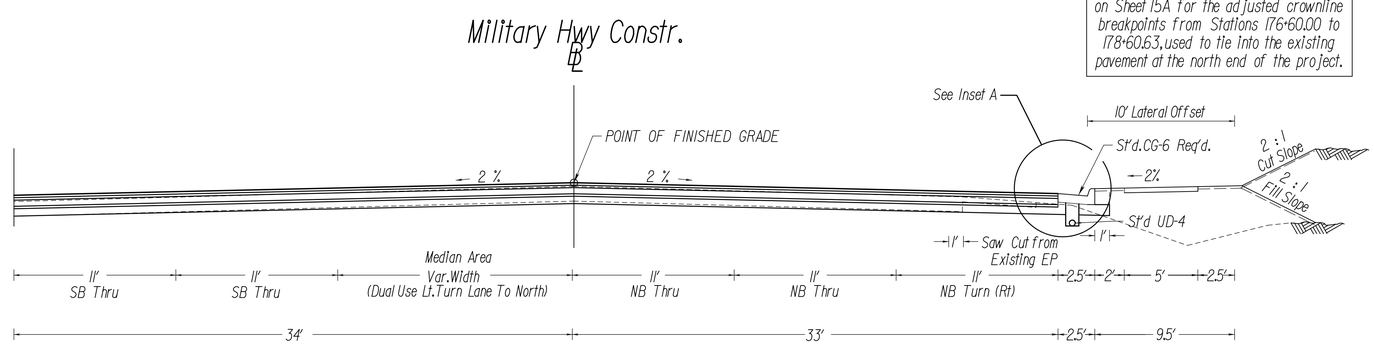
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

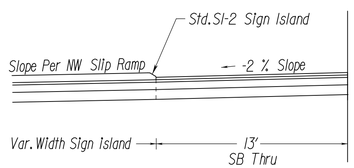
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(10)

PRELIMINARY TYPICAL SECTION
MILITARY HIGHWAY MAINLINE

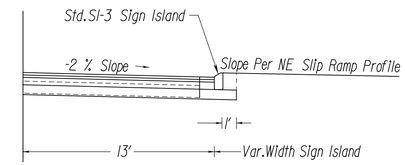
***Note: See the details and profile shown on Sheet 15A for the adjusted crownline breakpoints from Stations 176+60.00 to 178+60.63, used to tie into the existing pavement at the north end of the project.



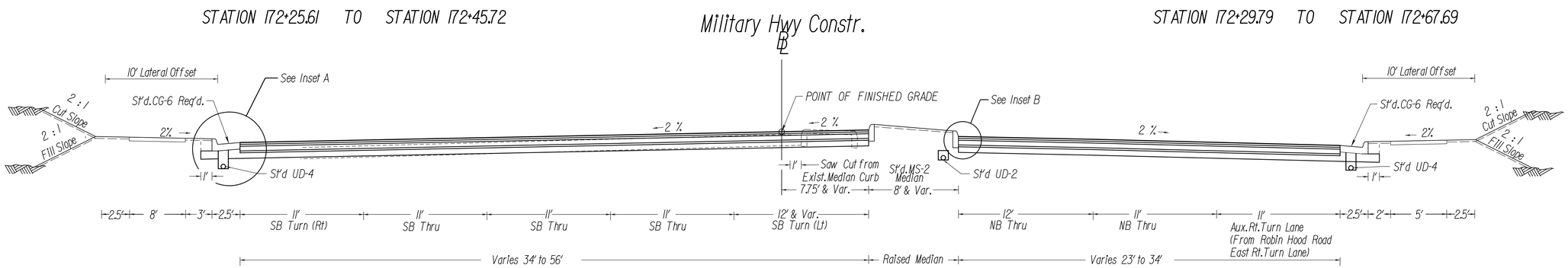
STATION 176+35.00 TO STATION 178+60.63



STATION 172+25.61 TO STATION 172+45.72

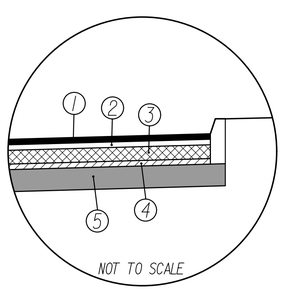


STATION 172+29.79 TO STATION 172+67.69



STATION 172+25.00 TO STATION 176+35.00

INSET B



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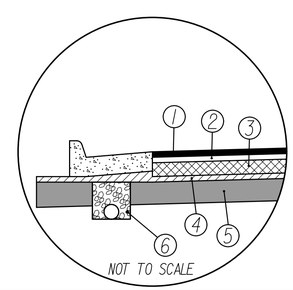
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (5")
4. OPEN GRADED DRAINAGE LAYER (2")
5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")

INSET A



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2. ASPHALT CONCRETE TYPE IM-19.0D (2")
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5. CEMENT TREATED AGGREGATE TYPE I, NO.21-A, PUGMILL MIXED WITH CEMENT 4% BY WEIGHT (6")
6. VDOT STD. UNDERDRAIN UD-4

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(10)

23-JUL-2015

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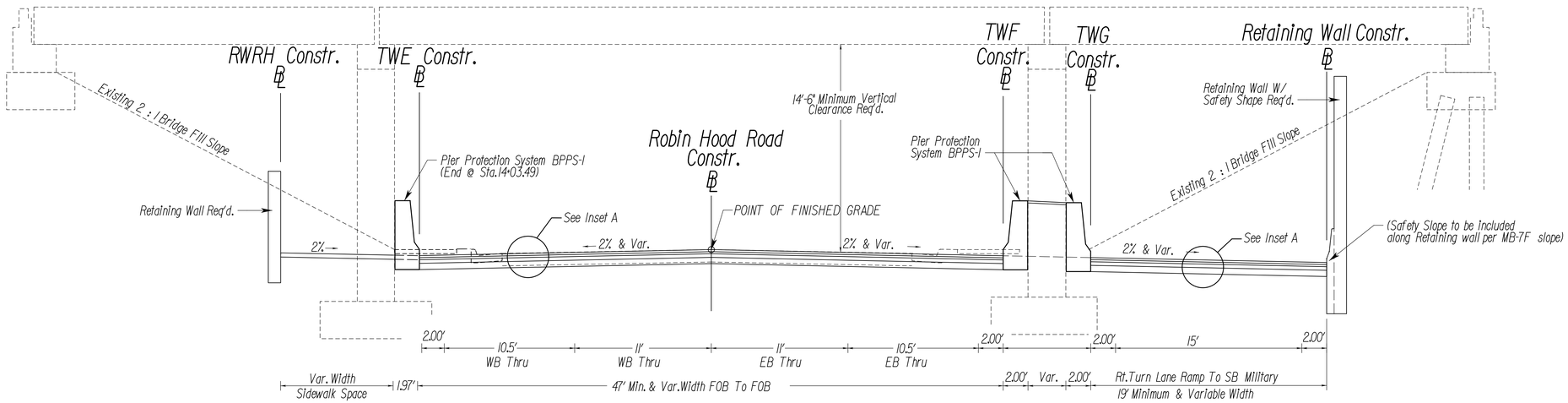
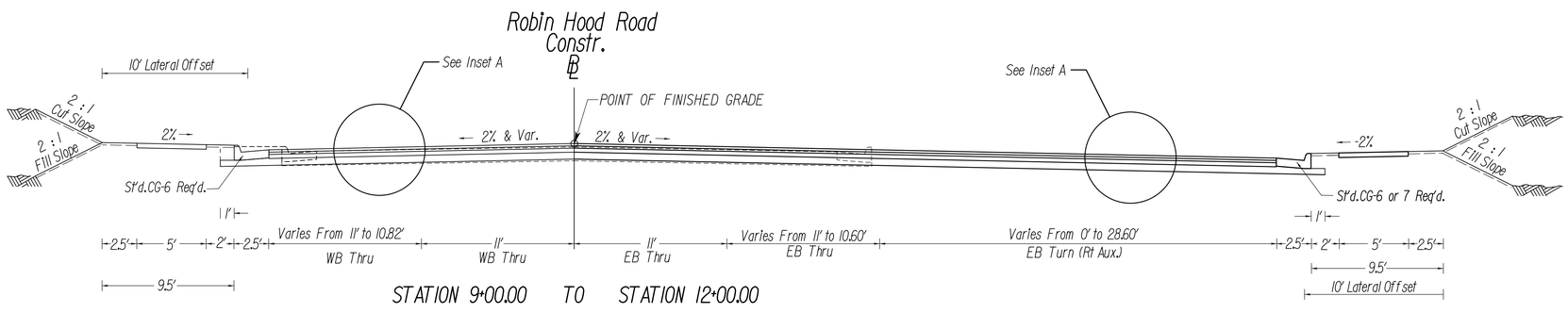
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(11)

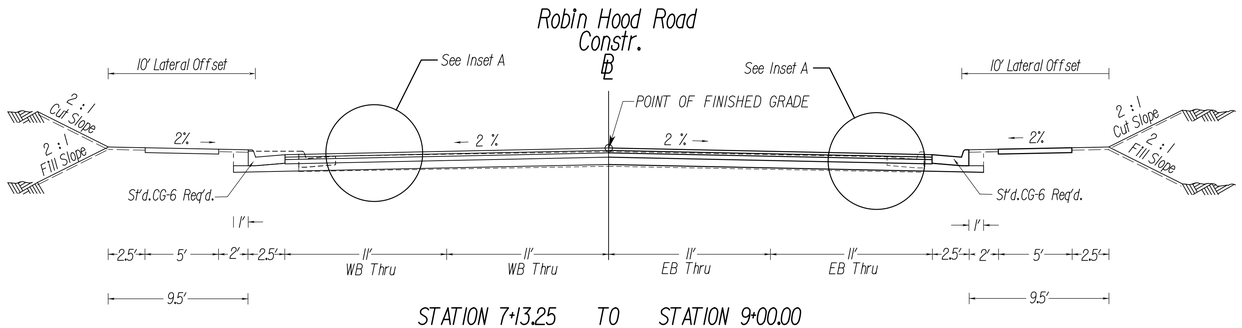
PRELIMINARY TYPICAL SECTION
ROBIN HOOD ROAD WEST



STATION 12+00.00 TO STATION 14+75.00

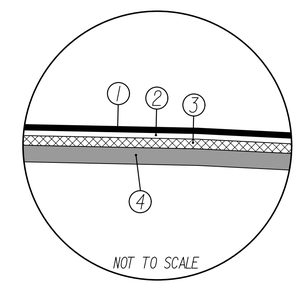


STATION 9+00.00 TO STATION 12+00.00



STATION 7+13.25 TO STATION 9+00.00

INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0A (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (3.5")
4. AGGREGATE BASE MATERIAL, TYPE I, NO.21-B (6")

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(11)

23-JUL-2015

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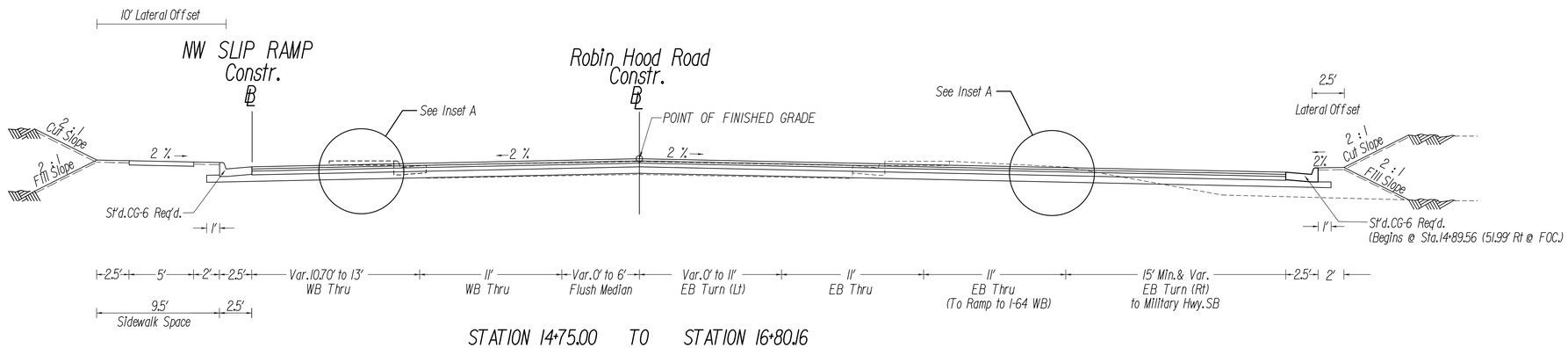
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(12)

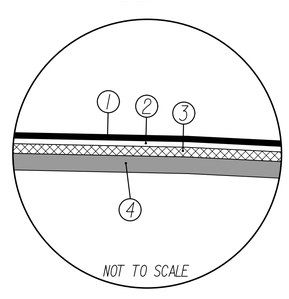
PRELIMINARY TYPICAL SECTION
ROBIN HOOD ROAD WEST



STATION 14+75.00 TO STATION 16+80.16

Robin Hood Rd. Constr.BL

INSET A



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0A (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (3.5")
4. AGGREGATE BASE MATERIAL, TYPE I, NO.21-B (6")

RFP PLANS
For Information
Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(12)

23-JUL-2015

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PROJECT MANAGER Frank Fabian, (757) 494-5477 (Hampton Roads)
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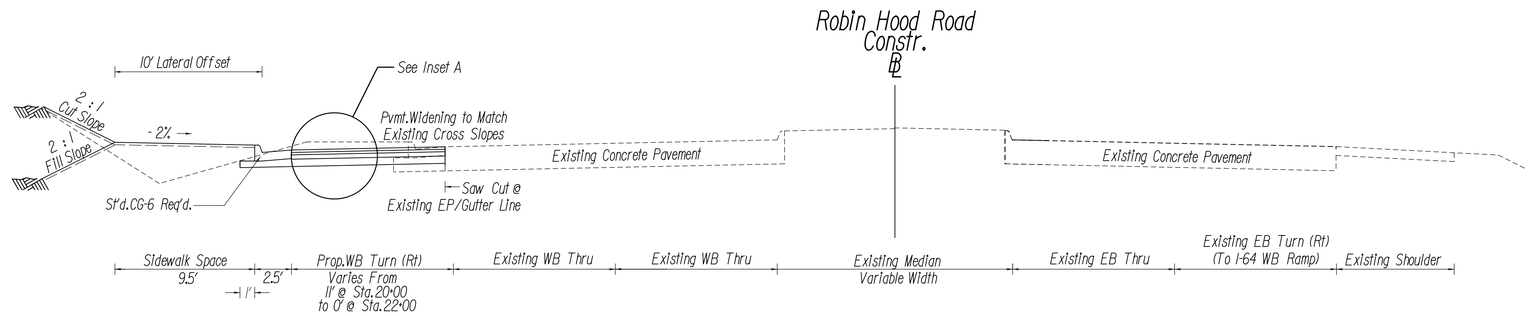
DESIGN BY Parsons Brinckerhoff (757) 466-1732

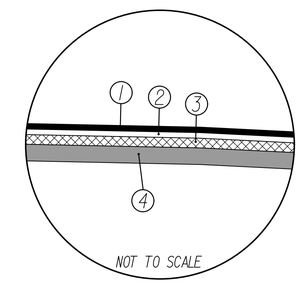
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(13)

PRELIMINARY TYPICAL SECTION
ROBIN HOOD ROAD EAST



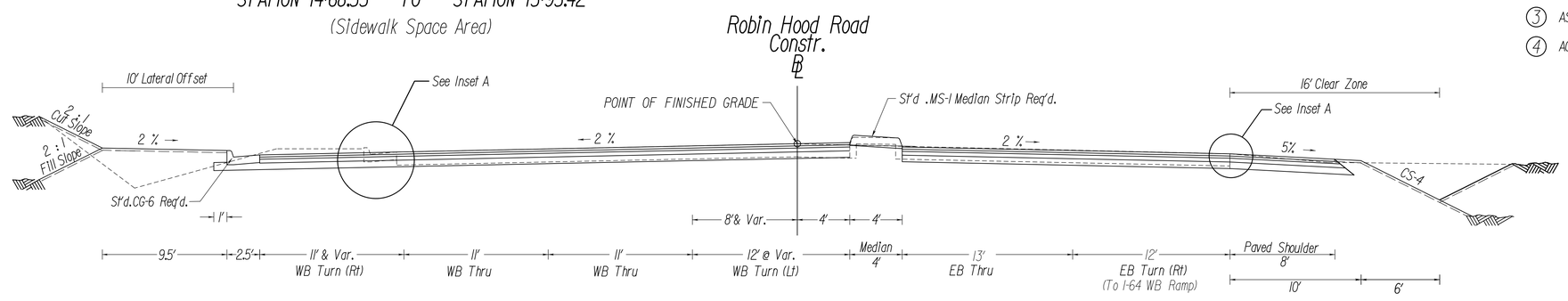
STATION 20+00.00 TO STATION 22+00.00

INSET A

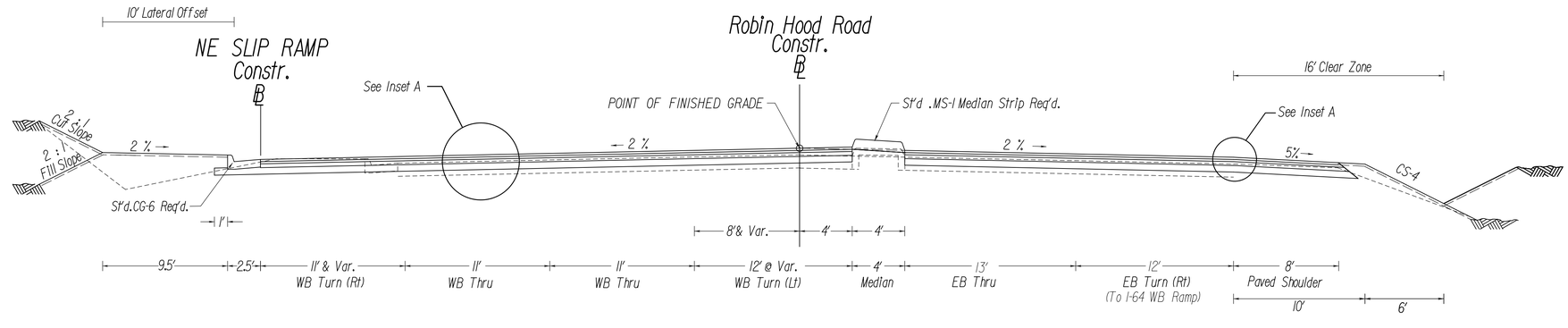


1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0A (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (3.5")
4. AGGREGATE BASE MATERIAL, TYPE I, NO.21-B (6")

STATION 14+68.55 TO STATION 15+95.42
(Sidewalk Space Area)



STATION 19+25.00 TO STATION 20+00.00



STATION 17+68.71 TO STATION 19+25.00

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(13)

23-JUL-2015

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PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

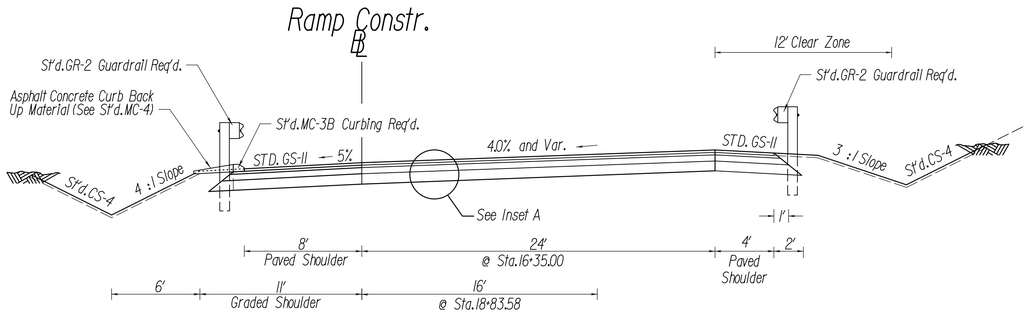
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(14)

PRELIMINARY TYPICAL SECTION
MILITARY HIGHWAY RAMPS

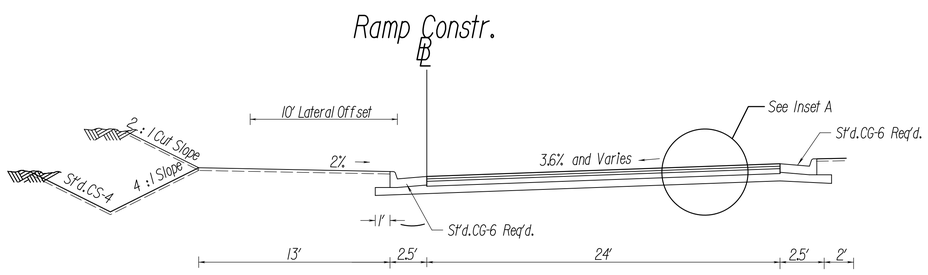
TYPICAL SECTION RTE. 1-64 OFF RAMP

LEFT (OUTSIDE) GUARDRAIL REQUIREMENTS
End Installation of Std.GR-2 @ Sta.15+81.68 (8.74' Lt.- (tie to exist.guardrail))
Install Std.GR-2 at Sta.15+08.00 (5.97' Lt.(Break Pt.))
Install Std.GR-2 from Sta.13+62.50 to 14+53.81 (8.00' Lt.)
Install Std. GR-11 from Sta.15+10.50 to 15+25.00 (8.00' Lt.)

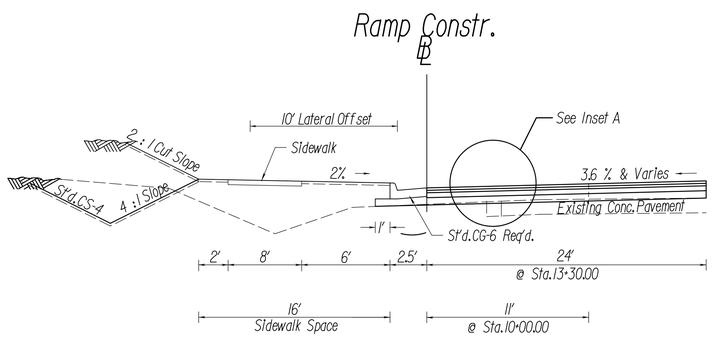
RIGHT (INSIDE) GUARDRAIL REQUIREMENTS
NOTE: THE ASPHALT CURBING & BACK UP MATERIAL IS NOT REQ'D. UNDER THE RIGHT SIDE CURBING.
End Placement of Std.GR-2 @ Sta.18+80.52 (21.75' Rt - (tie to exist.guardrail.)
Install Std.GR-2 from Sta.15+25.00 to 18+80.52 (28.00' Rt.to 21.75' Rt.)
Install Std. GR-11 from Sta.15+10.50 to 15+25.00 (28.00' Rt.)



STATION 14+30.00 TO STATION 18+83.58

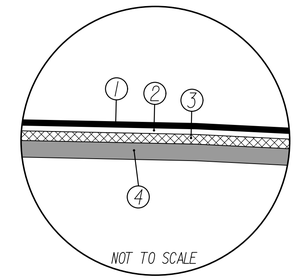


STATION 13+60.00 TO STATION 14+30.00



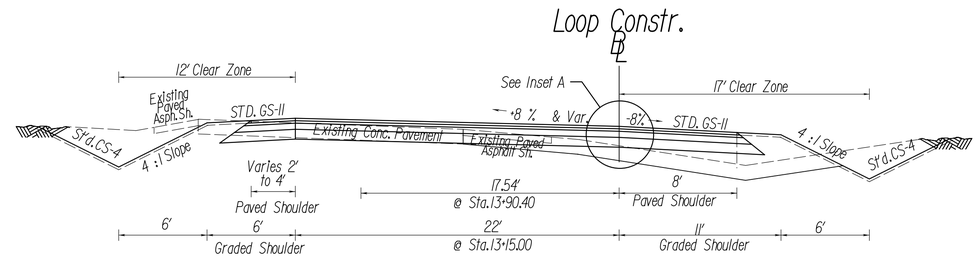
STATION 10+00.00 TO STATION 13+60.00

INSET A

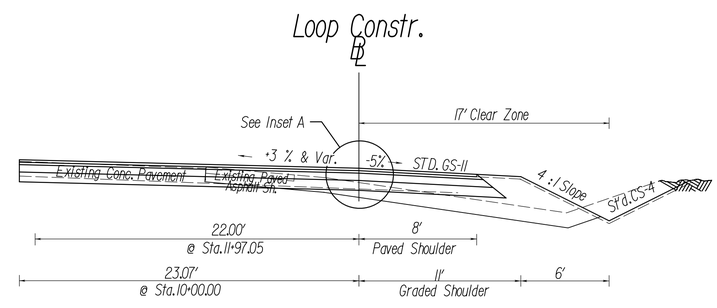


1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0A (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (4")
4. AGGREGATE BASE MATERIAL, TYPE I, NO.21-B (6")

TYPICAL SECTION RTE. 1-64 ON LOOP
STA. 10+00.00 TO 13+90.40



STATION 11+82.56 TO STATION 13+90.40



STATION 10+00.00 TO STATION 11+82.56

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(14)

23-JUL-2015

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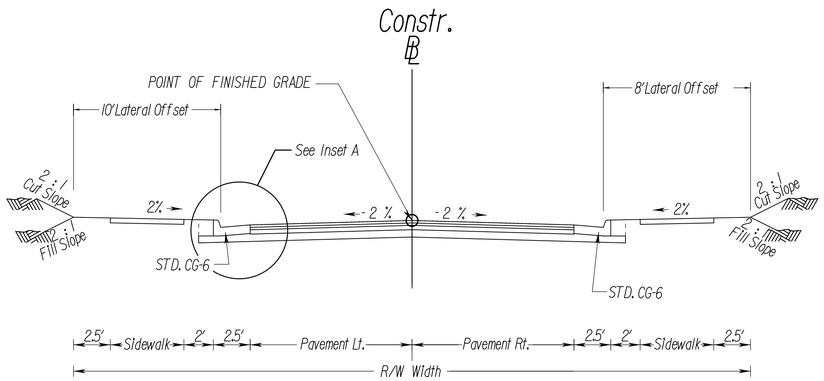
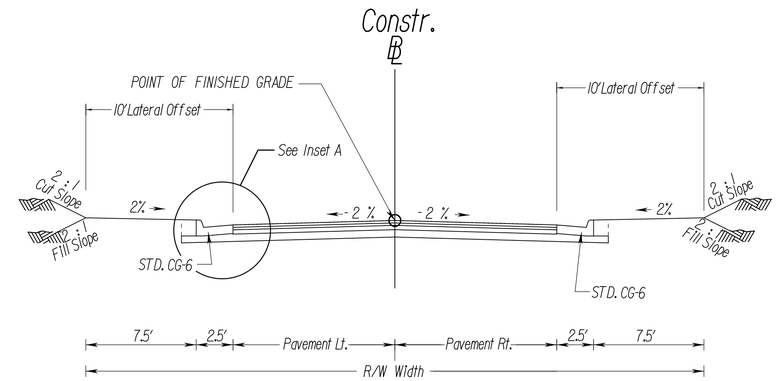
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGNED BY Parsons, Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(15)

PRELIMINARY TYPICAL SECTION
CONNECTION ROADS

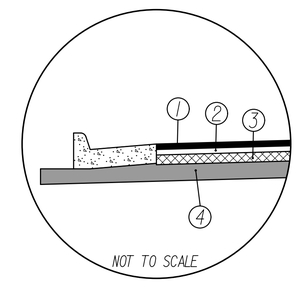




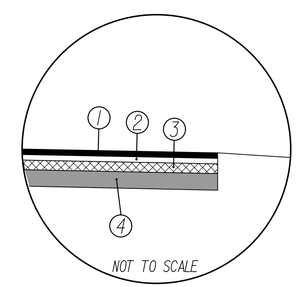
Roadway	Sheet No.	Station To Station	Pavement Left	Pavement Right
Commecial Entr. No. 1 Lt. (West)	5	10+60.96 to 11+33.50	3 - 12' ± Lanes Out	1 - 18' ± Lane In 10.47' Rt(Exist. Median) to 28.51' Rt.
Commercial Entr. No. 1 Rt. (East)		10+55.06 to 11+00.00	2 - 12' ± Lanes Out 16.86' Lt.	1 - 12' ± Lane In 19.47' Rt.
Commercial Entr. No. 2 Lt. (West)	6	10+60.30 to 11+17.12	1 - 13' ± Lane Out 19.31' Lt. to 6.16' Lt. (Existing Median)	1 - 12.75' ± Lane In 3.99' Rt(Exist. Median) to 16.75' Rt.
Comm. Entr. No. 2 (Lake Herbert) (VoTech Entrance)		10+60.53 to 11+35.65	1 - 13.5' ± Lane Out 13.00' Lt.	1 - 13.5' ± Lane In 10.47' Rt.

Roadway	Sheet No.	Station To Station	Pavement Left	Pavement Right
Lewis Road	8	10+50.00 to 11+75.00	1 - 13' ± Lane In	1 - 13' ± Lane Out
Cornick Road		10+54.00 to 11+50.10	1 - 9' ± Lane	
Commercial Entr. No. 3 Rt. (East)		10+63.53 to 11+01.00	1 - 10' ± Lane In	1 - 10' ± Lane In
Elizabeth Avenue West	10	10+60.30 to 11+17.12	1 - 18' ± Lane Out See Plan for Proposed Median Location	2 - 15' ± Lanes In See Plan for Proposed Median Location
Elizabeth Avenue East		10+60.53 to 11+35.65	1 - 11.5' ± Lane Out	1 - 11.5' ± Lane In

INSET A



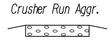
INSET B



1. ASPHALT CONCRETE TYPE SM-9.5E 220 LB/SY (2")
2. ASPHALT CONCRETE TYPE IM-19.0D (2")
3. ASPHALT CONCRETE TYPE BM-25.0A (3.5")
4. AGGREGATE BASE MATERIAL, TYPE I, NO. 21-B (6")

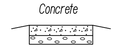
PRIVATE AND COMMERCIAL ENTRANCES

TYPE I
Crusher Run Aggr.



6" Crusher Run Aggr. 25 or 26

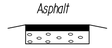
TYPE II
Concrete



Concrete Entrance Pavement
7" HES
4" Aggr. Base Mat'l. Ty. I
No. 21B

NOT TO SCALE

TYPE III
Asphalt



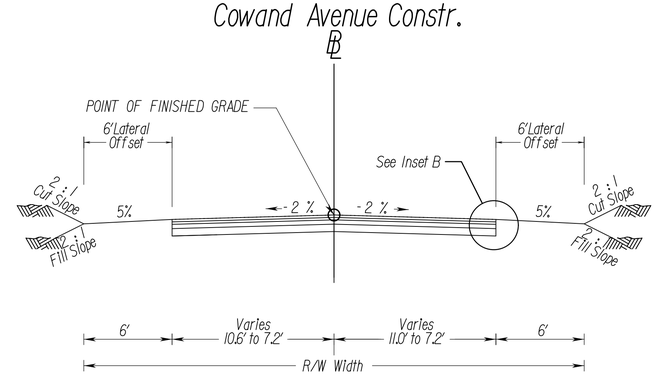
Asphalt Conc. Type
SM-9.5A or SM-9.5D @ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I
No. 21B

TYPE IV
Asphalt Commercial

Asphalt Conc. Type
SM-9.5A or SM-9.5D @ 165 Lbs. per S.Y.
4" Asphalt Conc. Base Course
BM-25.0
6" Aggr. Base Mat'l. Ty. I
No. 21B

The type of entrance (I, II, III, IV) to be constructed will be determined by the existing condition at the time of construction.

Cowand Avenue Constr.



RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(15)

23-JUL-2015

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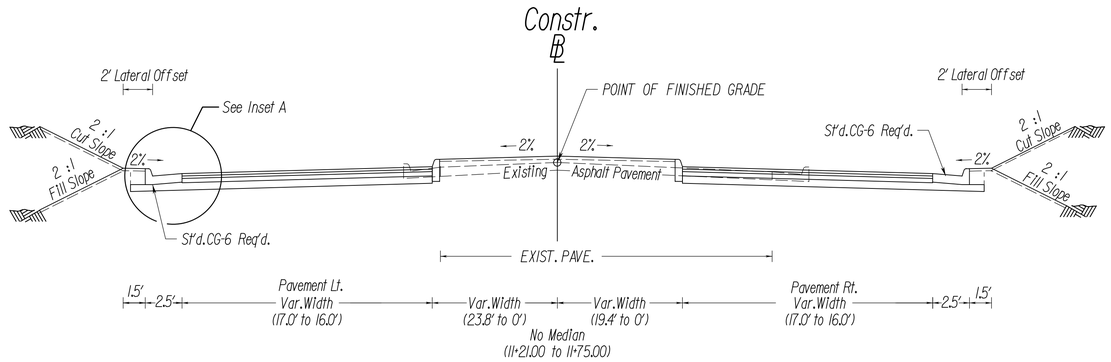
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	2A(16)

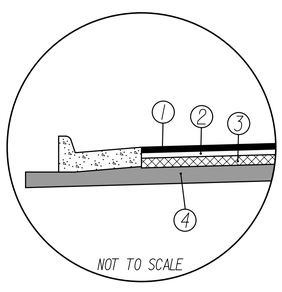
PRELIMINARY TYPICAL SECTIONS

POLICE TRAINING CENTER ENTRANCE (ACADEMY DRIVE)



STATION 10+55.00 TO STATION 11+75.00

INSET A



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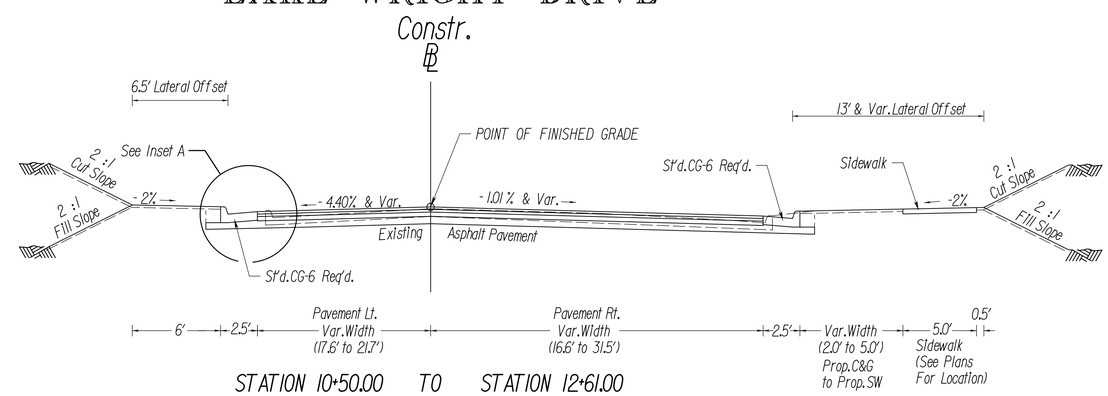
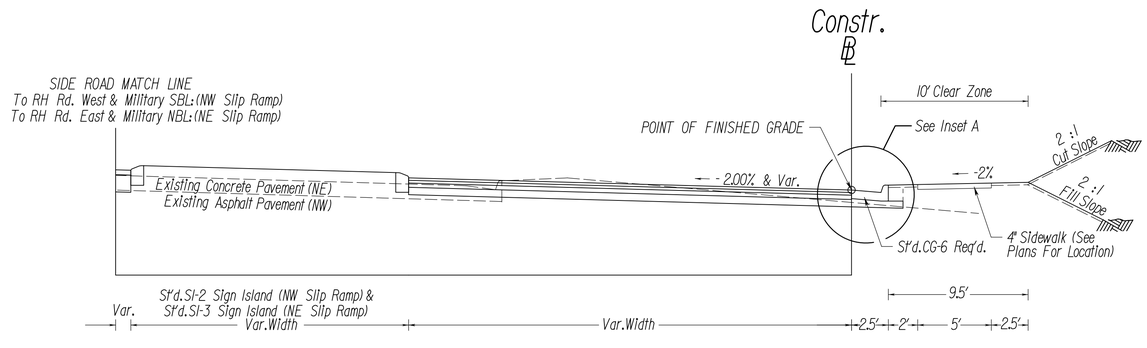
3. ASPHALT CONCRETE TYPE BM-25.0A (3.5")
4. AGGREGATE BASE MATERIAL, TYPE I, NO.21-B (6")

LAKE WRIGHT DRIVE



STATION 10+50.00 TO STATION 12+61.00

NW ROBIN HOOD ROAD SLIP RAMP & NE ROBIN HOOD ROAD SLIP RAMP



STATION 10+41.97 TO STATION 11+46.94 NW Robin Hood Rd.Slip Ramp
STATION 11+00.00 TO STATION 12+89.67 NE Robin Hood Rd.Slip Ramp

RFP PLANS
For Information Only

DATE: 07/27/15

LANE | PARSONS BRINCKERHOFF

NOT TO SCALE	PROJECT 0165-122-V04	SHEET NO. 2A(16)

23-JUL-2015

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PROJECT MANAGER
SURVEYED BY
DESIGN SUPERVISED BY
DESIGNED BY

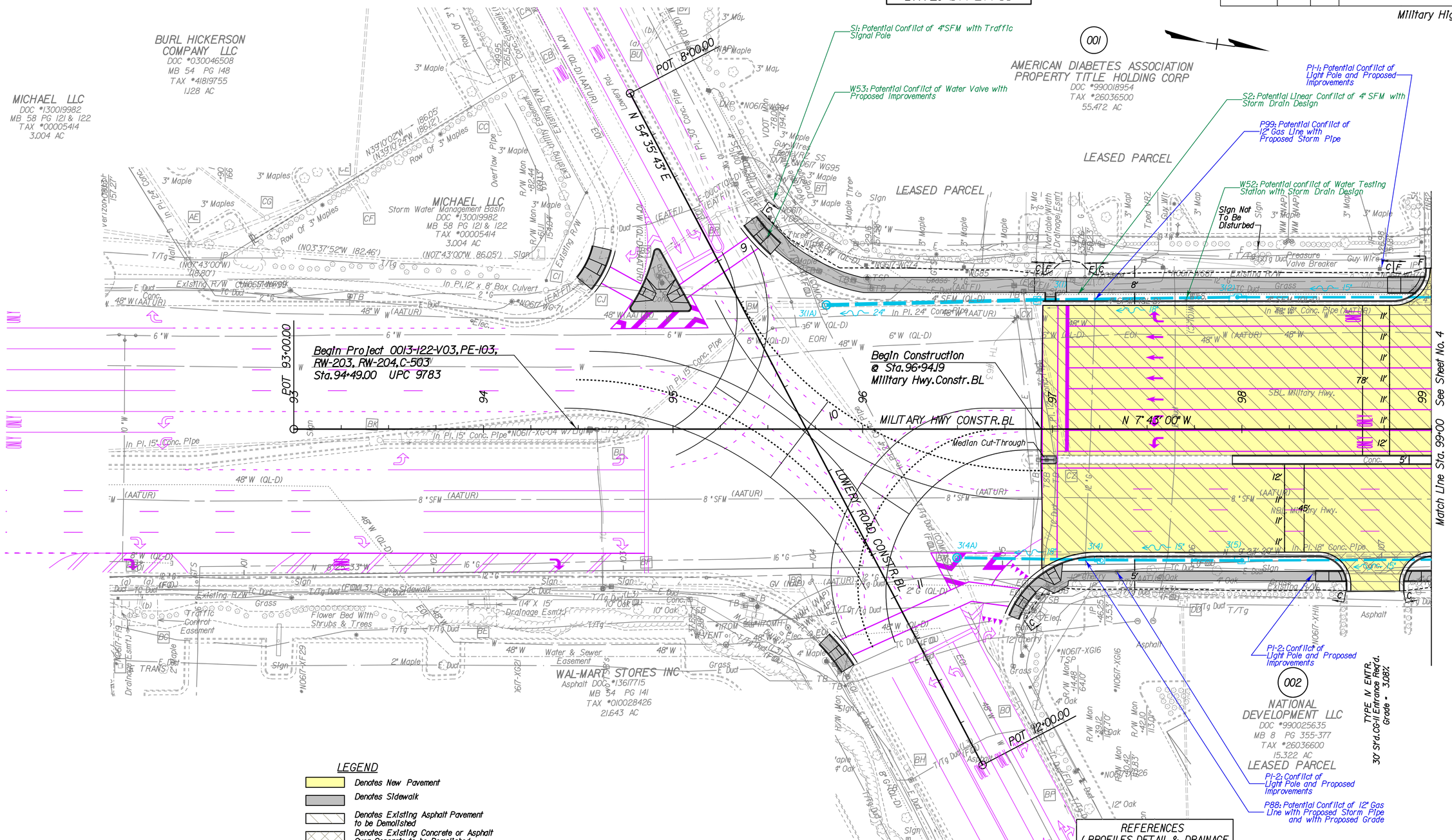
RFP PLANS
For Information Only

DATE: 07/27/15

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	3

23-JUL-2015



LEGEND

- Denotes New Pavement
- Denotes Sidewalk
- Denotes Existing Asphalt Pavement to be Demolished
- Denotes Existing Concrete or Asphalt Over Concrete to be Demolished
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills
- Dot - dashed lines denote Permanent Easements.

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	3

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PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
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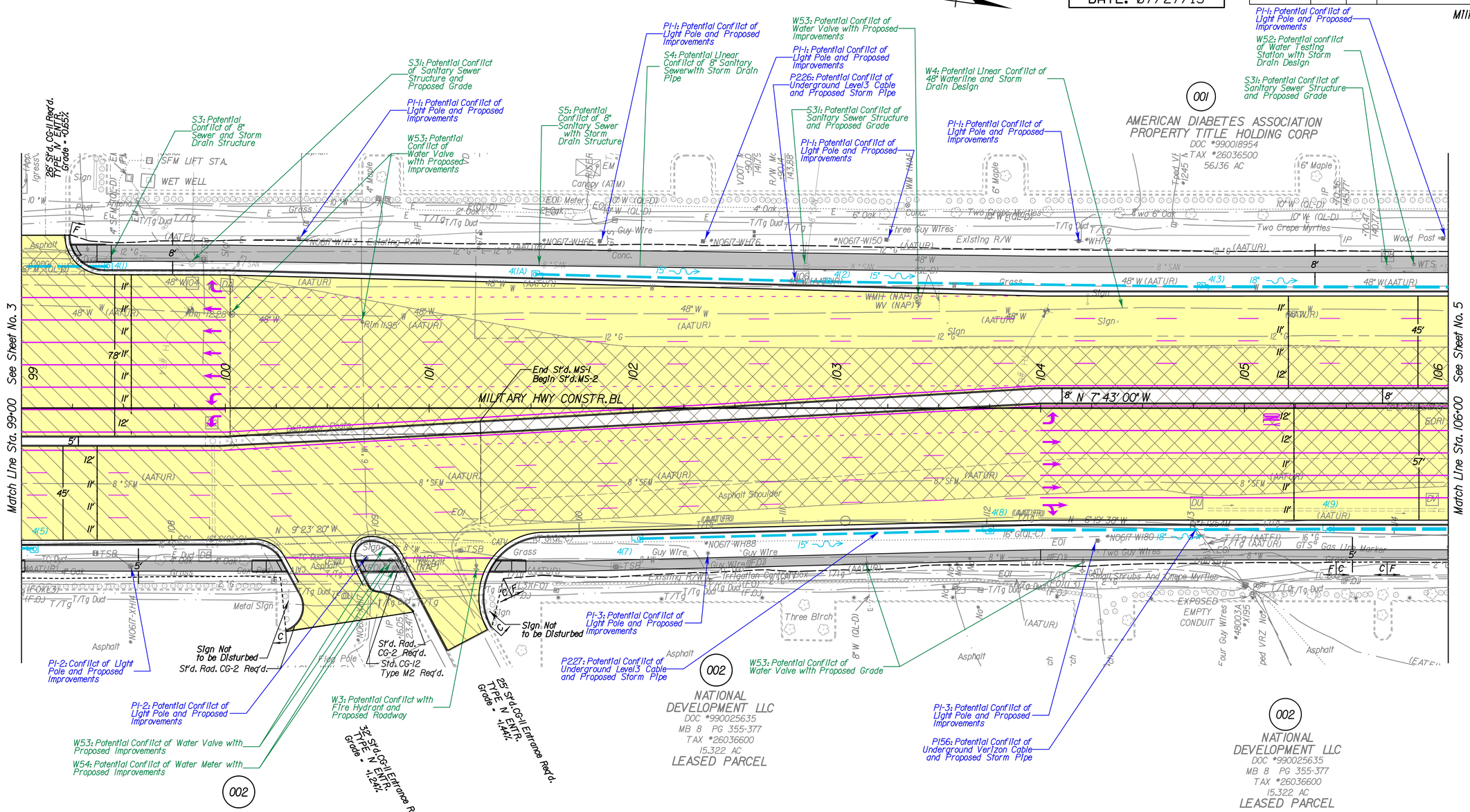
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

RFP PLANS
For Information Only

DATE: 07/27/15

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	4

23-JUL-2015



LEGEND

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	4

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PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
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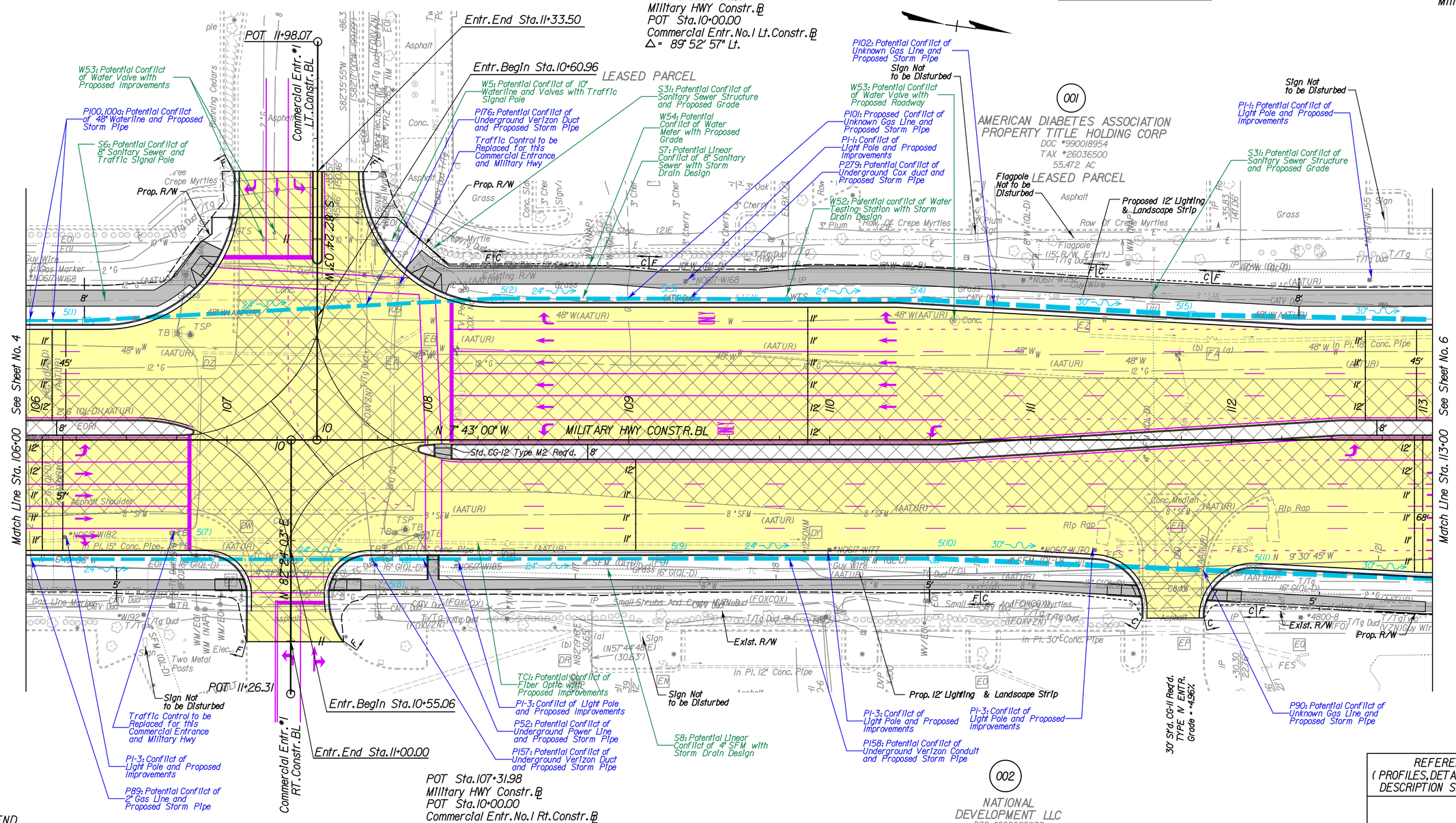
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	5

Military Highway

23-JUL-2015



LEGEND

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	5

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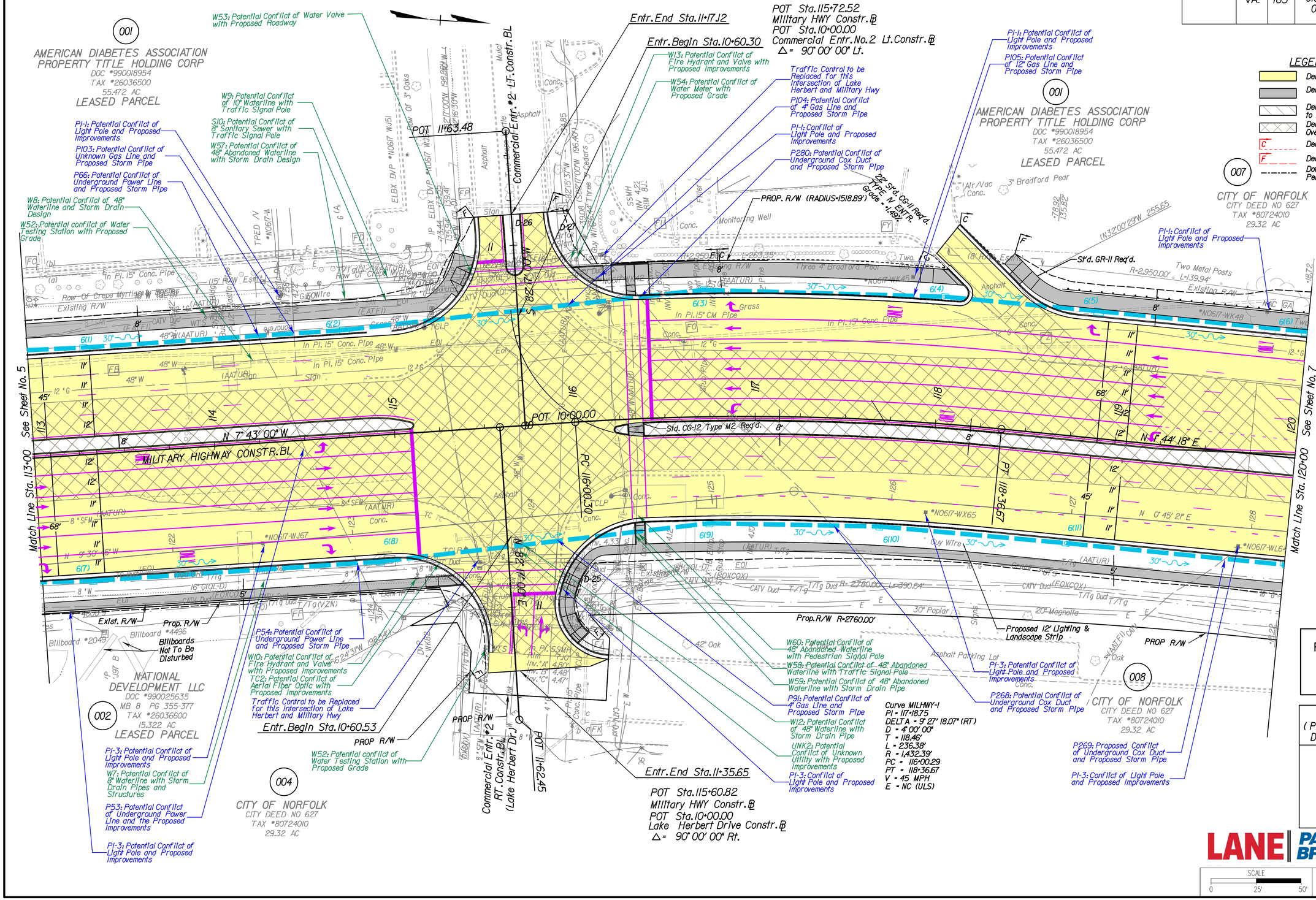
PROJECT MANAGER
SURVEYED BY
DESIGN SUPERVISED BY
DESIGNED BY

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	6

Military Highway



LEGEND

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	6

23-JUL-2015

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PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
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RFP PLANS
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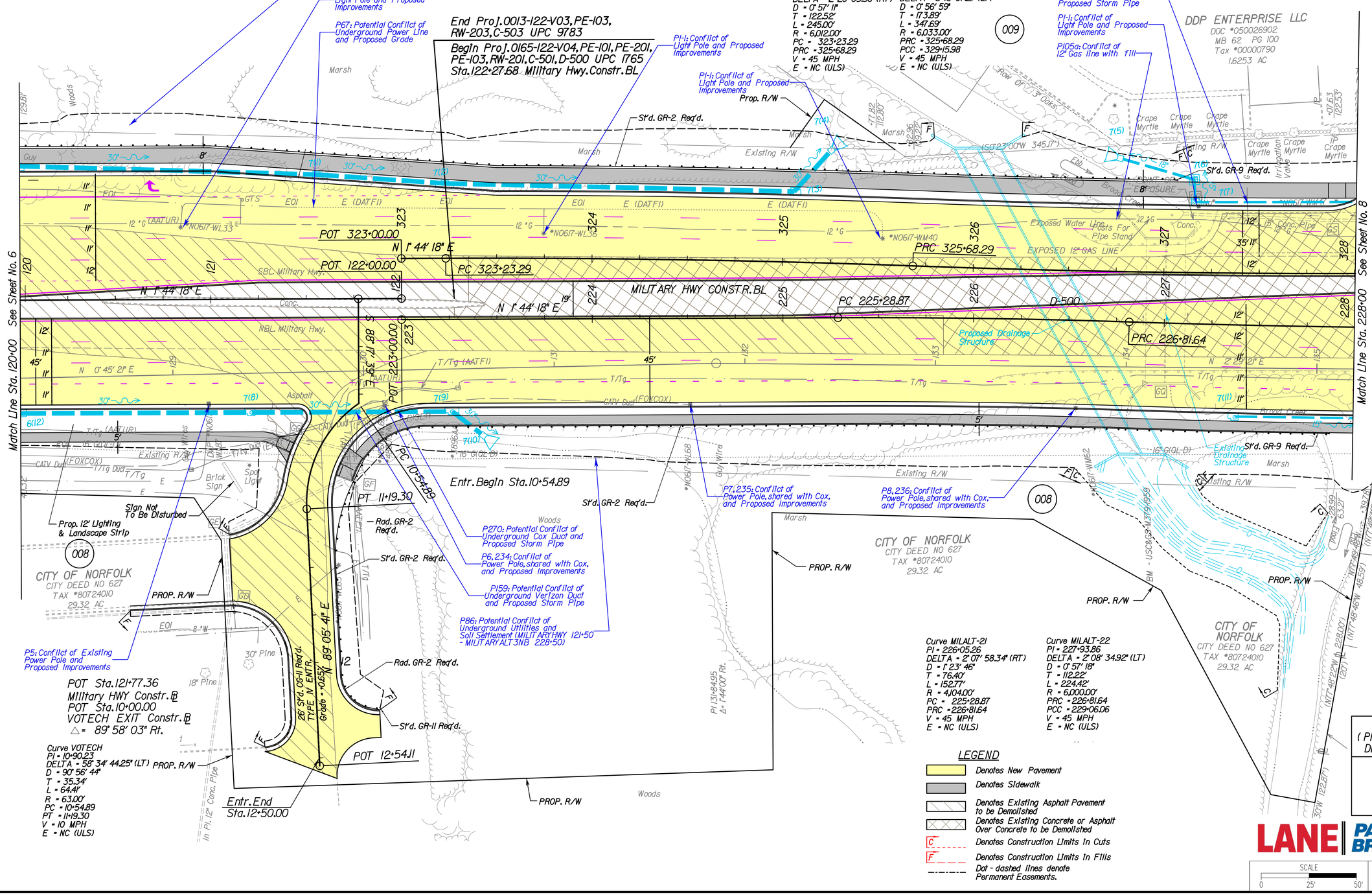
DATE: 07/27/15

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	7

23-JUL-2015



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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	7

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PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9607
DESIGNED BY Parsons Brinckerhoff (757) 466-0732

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	8

RFP PLANS
For Information Only
DATE: 07/27/15

23-JUL-2015

Curve EB-RTL-1
PI = 500+68.49
DELTA = 19° 20' 17.57" (LT)
D = 14° 15' 10"
T = 68.49'
L = 135.68'
R = 402.00'
PC = 500+00.00
PRC = 501+35.68
V = 25 MPH
E = NC (ULS)

Curve EB-RTL-2
PI = 502+00.17
DELTA = 25° 56' 22.69" (RT)
D = 20° 27' 46"
T = 64.49'
L = 126.76'
R = 280.00'
PRC = 501+35.68
PT = 502+62.45
V = 25 MPH
E = NC (ULS)

Curve MILALT-3
PI = 330+01.81
DELTA = 8° 56' 22.46" (LT)
D = 5° 13' 06"
T = 85.83'
L = 171.32'
R = 1,098.00'
PCC = 329+15.98
PRC = 330+87.29
V = 45 MPH
E = NC (ULS)

Curve MILALT-4
PI = 332+73.03
DELTA = 10° 14' 05.78" (RT)
D = 2° 45' 45"
T = 185.74'
L = 370.49'
R = 2,074.00'
PRC = 330+87.29
PT = 334+57.78
V = 45 MPH
E = NC (ULS)

Curve MILALT-23
PI = 229+97.82
DELTA = 9° 59' 21.55" (LT)
D = 5° 27' 24"
T = 91.76'
L = 183.06'
R = 1,050.00'
PCC = 229+06.06
PRC = 230+89.12
V = 45 MPH
E = NC (ULS)

Curve MILALT-24
PI = 232+67.94
DELTA = 9° 59' 58.12" (RT)
D = 2° 48' 11"
T = 178.82'
L = 356.73'
R = 2,044.00'
PRC = 230+89.12
PT = 234+45.85
V = 45 MPH
E = NC (ULS)

Curve CORNICK-1
PI = 11+03.44
DELTA = 15° 40' 45.54" (LT)
D = 14° 19' 26"
T = 55.08'
L = 109.46'
R = 400.00'
PC = 10+48.36
PRC = 11+57.83
V = 25 MPH
E = NC (ULS)

Curve CORNICK-2
PI = 12+53.99
DELTA = 87° 45' 40.36" (RT)
D = 57° 17' 45"
T = 96.17'
L = 153.17'
R = 100.00'
PRC = 11+57.83
PT = 13+11.00
V = 25 MPH
E = NC (ULS)

Curve NB-LTL-1
PI = 400+55.66
DELTA = 3° 05' 11.38" (RT)
D = 2° 46' 24"
T = 55.66'
L = 111.29'
R = 2,066.00'
PC = 400+00.00
PRC = 401+11.29
V = 25 MPH
E = NC (ULS)

Curve NB-LTL-2
PI = 401+74.02
DELTA = 28° 10' 10.09" (LT)
D = 22° 55' 06"
T = 62.72'
L = 122.91'
R = 250.00'
PRC = 401+11.29
PRC = 402+34.21
V = 25 MPH
E = NC (ULS)

Curve NB-LTL-3
PI = 403+13.23
DELTA = 35° 04' 56.83" (RT)
D = 22° 55' 06"
T = 79.02'
L = 153.08'
R = 250.00'
PRC = 402+34.21
PT = 403+87.28
V = 25 MPH
E = NC (ULS)

LEGEND

- Denotes New Pavement
- Denotes Sidewalk
- Denotes Existing Asphalt Pavement to be Demolished
- Denotes Existing Concrete or Asphalt Over Concrete to be Demolished
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills
- Dot-dashed lines denote Permanent Easements.

REFERENC (ULS)ES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	8

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PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9607
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	8B

RFP PLANS
For Information Only

DATE: 07/27/15

23-JUL-2015

LEGEND

- Denotes New Pavement
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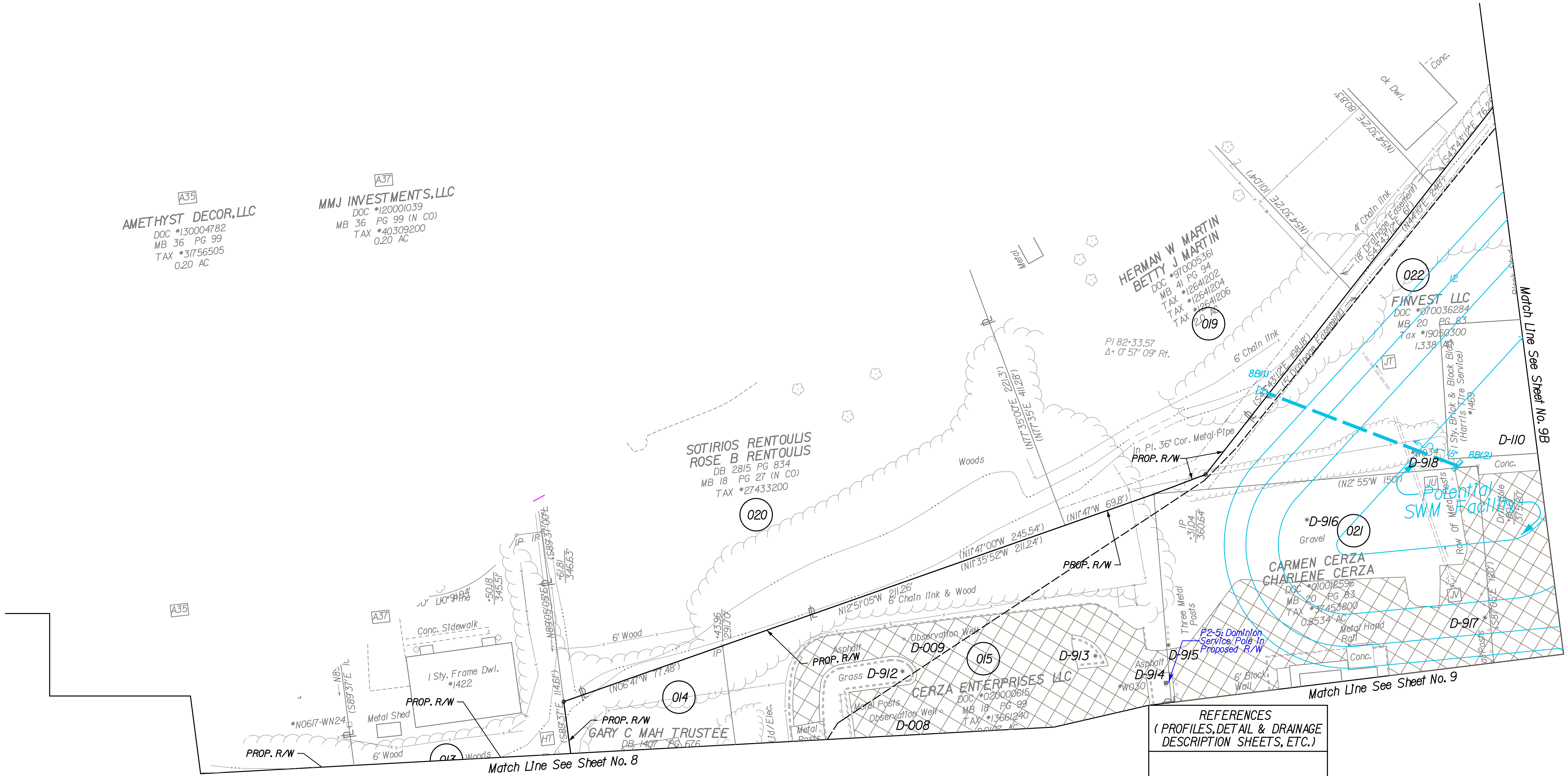

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	8B

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PROJECT MANAGER ____ XXX-XXX-XXXX ____
SURVEYED BY ____ XXX-XXX-XXXX ____
DESIGN SUPERVISED BY _ Michelle Martin, P.E. (757) 466-9607 ___
DESIGNED BY _ Parsons Brinckerhoff (757) 466-1732 ____

RFP PLANS
For Information Only

DATE: 07/27/15

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	9

Military Highway

LEGEND

- Denotes New Pavement
- Denotes Sidewalk
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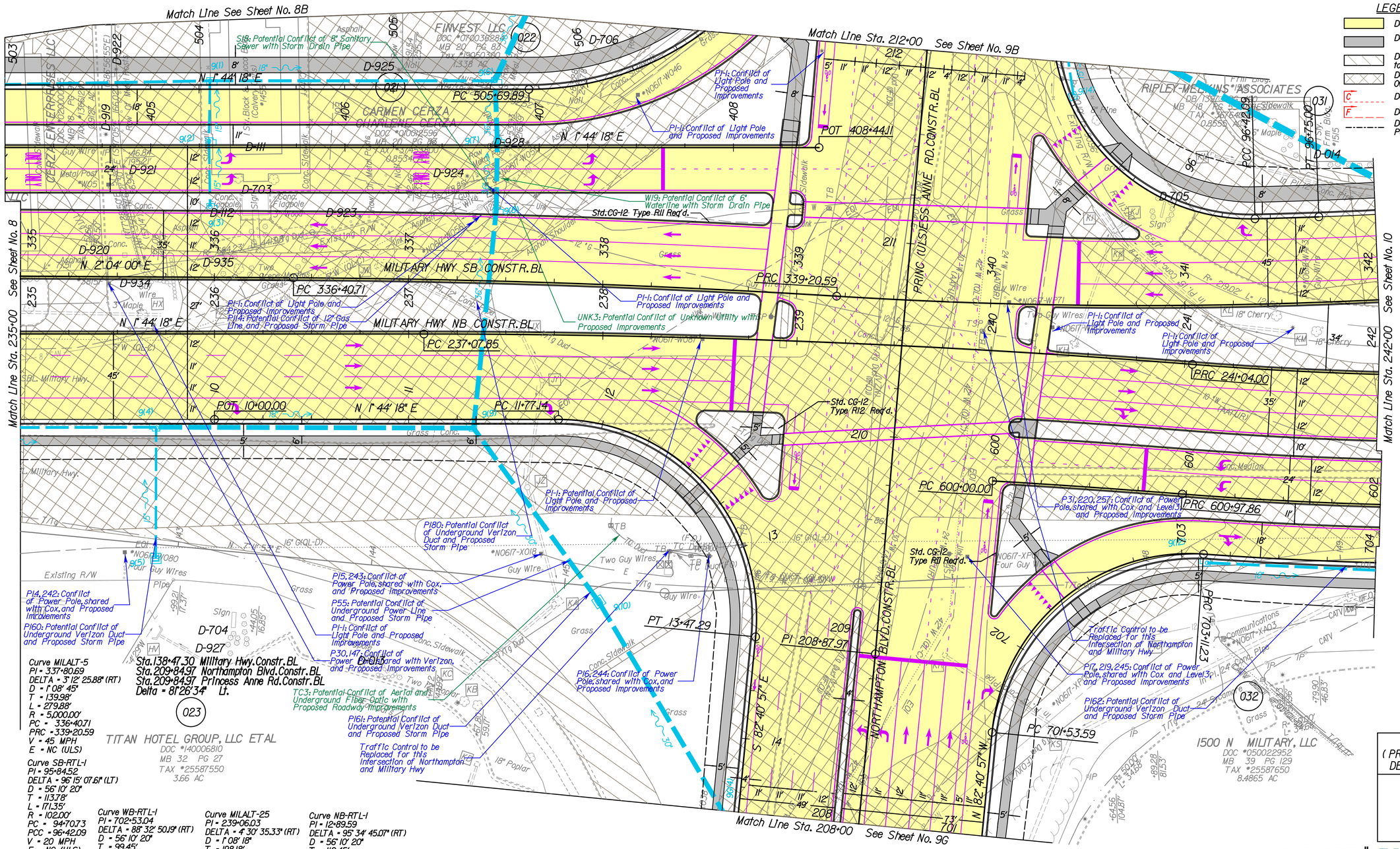
- Denotes Existing Concrete or Asphalt Over Concrete to be Demolished
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills
- Dot - dashed lines denote Permanent Easements.



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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	9

23-JUL-2015

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PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9607
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

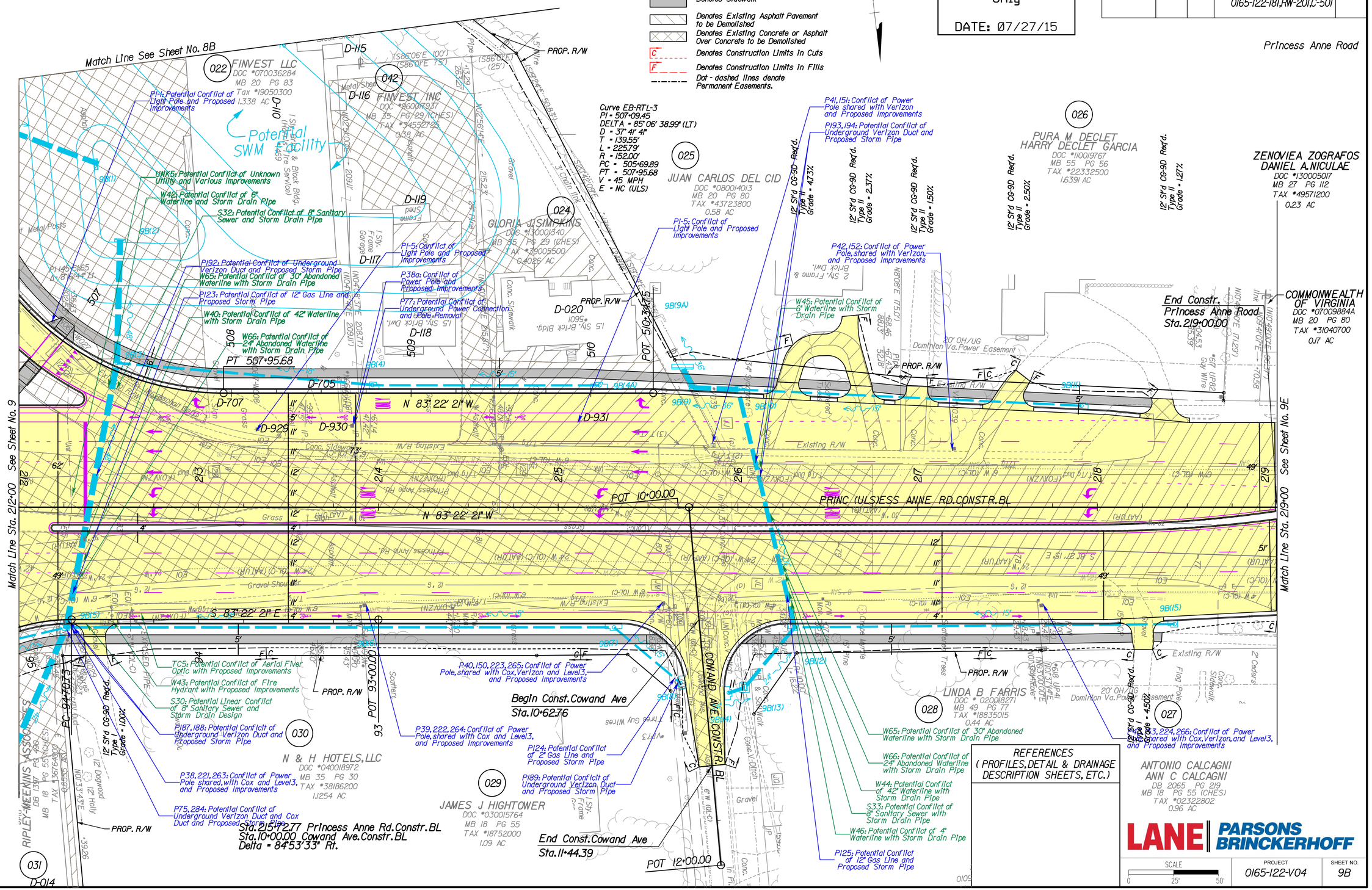
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	9B

RFP PLANS
For Information Only

DATE: 07/27/15

LEGEND

- Denotes New Pavement
- Denotes Sidewalk
- Denotes Existing Asphalt Pavement to be Demolished
- Denotes Existing Concrete or Asphalt Over Concrete to be Demolished
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills
- Dot-dashed lines denote Permanent Easements.



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

LANE | PARSONS BRINCKERHOFF

SCALE 0 25' 50'

PROJECT	SHEET NO.
0165-122-V04	9B

23-JUL-2015

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PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9607
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	9E

RFP PLANS
For Information Only

DATE: 07/27/15

Princess Anne Road

Curve NORTHHAMPTON-2
PI = 224+39.23
DELTA = 41° 53' 25.78" (LT)
D = 5° 00' 00"
T = 438.62'
L = 837.81'
R = 1,145.92'
PC = 220+00.61
PT = 228+38.42
V = 45 MPH
E = NC (ULS)

End Proj.0165-122-181,C-501
Sta.222+32.55 Princess Anne Rd.Constr.BL

ZENOVIEA ZOGRAFOS
DANIEL A NICULAE
DOC #130005017
MB 27 PG 112
TAX #49571200
0.23 AC

COMMONWEALTH OF VIRGINIA
DOC #070018509
MB 20 PG 80
TAX #31040700
0.17 AC

COMMONWEALTH OF VIRGINIA
DOC #070031761
MB 32 PG 133
TAX #08225500
0.24 AC

COMMONWEALTH OF VIRGINIA
DB 2458 PG 687
MB 43 PG 5
TAX #07628500
0.17 AC

MARCUS J HOLTON
EARTHA L HOLTON
DB 2815 PG 205
MB 32 PG 127,130
TAX #00527210
0.49 AC

CHRIS D. CURRIE
DOC #060004561
MB 54 PG 38
TAX #32596302
0.28 AC

MARIAN C CALCAGNI
ANNE C CALCAGNI
WB 765 PG 93
TAX #07931500
0.88 AC

MARIAN C CALCAGNI
ANNE C CALCAGNI
WB 765 PG 93
TAX #07931600
0.73 AC

ANTONIO CALCAGNI
ANN C CALCAGNI
DB 2065 PG 219
MB 18 PG 55 (CHES)
TAX #02322802
0.96 AC

027

Match Line Sta. 219+00 See Sheet No. 9B

PRINC (ULS)ESS ANNE RD.CONSTR.BL

PC 220+00.61

R= 1085.90' L= 199.31'

R= 1223.42' L= 135.18'

20' OH/UG Dominion Va.Power Easement

Existing R/W

Row of 2" Cedars

23" x 14" RCP

15" RCP

2 SN. Brick Dwl. #5501

1 SN.

6" Wood

Curb Inlet

Box 6" W

Guy Wires Fiber Optic

No Number (3) 600V Wires

Rim 12.50 Inv 8.51

Rim 10.44 Inv 7.04

Rim 12.23 Inv 7.13

Rim 9.13 Inv 4.44

Rim 9.47 Inv 4.47

Rim 9.44 Inv 3.52

Rim 7.4 Inv 2.12

S86°59'30"E (S.L.T.)

S21°40'06"E

S21°16'18"E 88.96'

S21°16'18"E 90.00'

S21°56'55"E

N 70° 04' 49" E

LEGEND

- Denotes New Pavement
- Denotes Sidewalk
- Denotes Existing Asphalt Pavement to be Demolished
- Denotes Existing Concrete or Asphalt Over Concrete to be Demolished
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills
- Dot - dashed lines denote Permanent Easements.

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	9E

23-JUL-2015

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PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9607
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

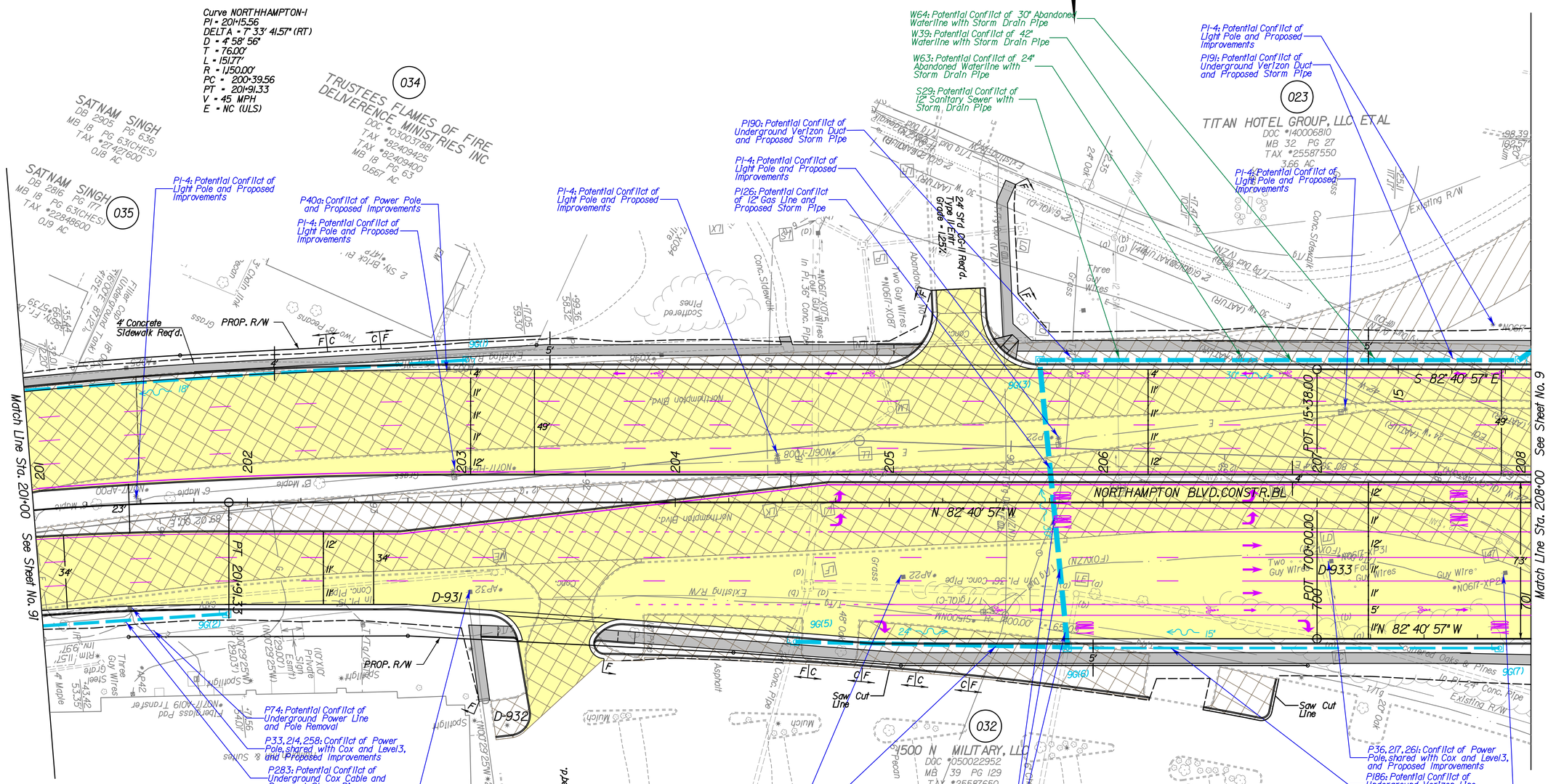
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	9G

RFP PLANS
For Information Only

DATE: 07/27/15

Northampton Blvd.

23-JUL-2015



LEGEND

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- Dot - dashed lines denote Permanent Easements.

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	9G

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PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9607
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

23-JUL-2015

RFP PLANS
For Information Only

DATE: 07/27/15

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	91

Northampton Blvd.

LEGEND

- Denotes New Pavement
- Denotes Sidewalk
- Denotes Existing Asphalt Pavement to be Demolished
- Denotes Existing Concrete or Asphalt Over Concrete to be Demolished
- C — Denotes Construction Limits In Cuts
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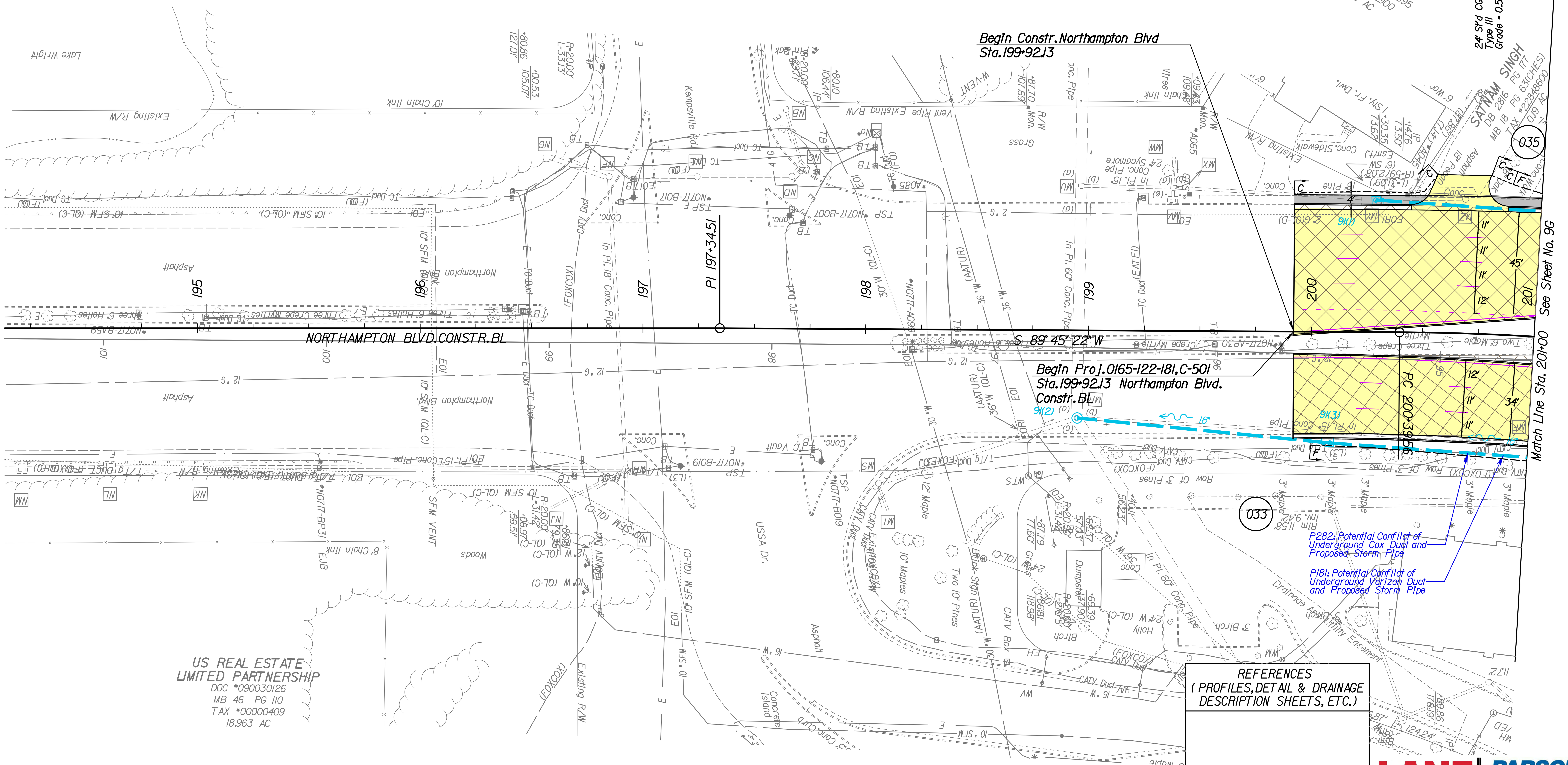
- Dot - dashed lines denote Permanent Easements.



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

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LANE | PARSONS BRINCKERHOFF

SCALE 0 25' 50'

PROJECT	SHEET NO.
0165-122-V04	91

PROJECT MANAGER ____ XXX-XXX-XXXX
SURVEYED BY ____ XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9607
DESIGNED BY Parsons, Brinckerhoff (757) 466-1732

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	10

RFP PLANS
For Information Only

DATE: 07/27/15

Military Highway

LEGEND

- Denotes New Pavement
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- Dot-dashed lines denote Permanent Easements.

Sta.144+71.32 Military Hwy.Constr.BL
Sta.9+99.93 Elizabeth Ave.East Constr.BL
Delta = 84°34'45" Rt.
Sta.45+23.16 CFI North Rt Constr.BL
Sta.144+95.77 Military Hwy Constr.BL
Delta = 150°38'05" Rt.

Curve WB-RT-L-2
PI = 704+74.39
DELTA = 9°20'29.74" (LT)
D = 2°52'09"
T = 163.16'
L = 325.59'
R = 1,997.00'
PRC = 703+11.23
PCC = 706+36.82
V = 45 MPH
E = NC (ULS)

Curve WB-RT-L-3
PI = 707+11.16
DELTA = 27°13'22.14" (LT)
D = 18°39'47"
T = 74.34'
L = 145.86'
R = 307.00'
PCC = 706+36.82
PRC = 707+82.69
V = 25 MPH
E = NC (ULS)

Curve WB-RT-L-4
PI = 708+43.44
DELTA = 19°41'40.66" (RT)
D = 16°22'13"
T = 60.75'
L = 120.31'
R = 350.00'
PRC = 707+82.69
PT = 709+02.99
V = 25 MPH
E = NC (ULS)

Curve MILALT-26
PI = 247+62.03
DELTA = 38°12'19.07" (LT)
D = 3°00'56"
T = 658.03'
L = 1,266.94'
R = 1,900.00'
PRC = 241+04.00
PT = 253+70.93
V = 45 MPH
E = NC (ULS)

Sta.145+19.81 Military Hwy.Constr.BL
Sta.10+00.00 Elizabeth Ave.West Constr.BL
Delta = 75°03'34" Lt.

Curve MILALT-6
PI = 343+28.74
DELTA = 18°18'25.65" (LT)
D = 2°15'43"
T = 408.15'
L = 809.34'
R = 2,533.00'
PRC = 339+20.59
PCC = 347+29.94
V = 45 MPH
E = NC (ULS)

End Const.Elizabeth Ave.West
Sta.12+20.00

Begin Const.Elizabeth Ave.West
Sta.10+99.43

Begin Const.Elizabeth Ave.East
Sta.10+50.00

End Const.Elizabeth Ave.East
Sta.11+44.83

Sta.142+74.61 Military Hwy.Constr.BL
Sta.42+75.90 CFI North Rt Constr.BL
Delta = 0°0'0", Offset = 70' Rt

Curve SB-LTL-2
PI = 602+65.19
DELTA = 9°43'29.81" (LT)
D = 2°54'46"
T = 167.33'
L = 333.86'
R = 1,967.00'
PRC = 600+97.86
PCC = 604+31.72
V = 45 MPH
E = NC (ULS)

Curve SB-LTL-3
PI = 605+06.18
DELTA = 37°46'53.80" (LT)
D = 20°41'04"
T = 94.79'
L = 182.66'
R = 277.00'
PCC = 604+11.39
PRC = 605+94.05
V = 25 MPH
E = NC (ULS)

Curve SB-LTL-4
PI = 606+64.52
DELTA = 28°44'40.03" (RT)
D = 20°50'05"
T = 70.47'
L = 137.96'
R = 275.00'
PRC = 605+94.05
PRC = 607+32.01
V = 25 MPH
E = NC (ULS)

Curve SB-LTL-5
PI = 608+28.59
DELTA = 5°53'16.42" (LT)
D = 3°03'03"
T = 96.58'
L = 192.99'
R = 1,878.00'
PRC = 607+32.01
PT = 609+25.00
V = 45 MPH
E = NC (ULS)

Match Line Sta. 242+00 See Sheet No. 9

Match Line Sta. 248+75 See Sheet No. 11

MILITARY HWY. CONST.R.BL

ELIZABETH AVE. WEST CONST.R.BL

ELIZABETH AVE. EAST CONST.R.BL

N 72°44'48" E

POT 12+00.00

PCC 604+11.39

PRC 605+94.05

PRC 607+32.01

PRC 707+82.69

PCC 706+56.32

PCC 347+29.94

PT 709+02.99

PI1: Conflict of Light Pole and Proposed Improvements

P70: Potential Conflict of Underground Power Line and Proposed Grade

PI5: Potential Conflict of 8" Gas Line and Proposed Storm Pipe

S23: Potential Conflict of 10" Sanitary Sewer with Storm Drain Pipe

S25: Potential Conflict of 8" Sanitary Sewer with Storm Drain Pipe

W21: Potential Conflict of 6" Waterline with Storm Drain Pipe

P52, 148: Conflict of Power Pole, shared with Verizon, and Proposed Improvements

W22: Potential Conflict of Fire Hydrant with Proposed Roadway

P71: Potential Conflict of Underground Power Lines and Proposed Grade

P18, 246: Conflict of Power Pole, shared with Cox, and Proposed Improvements

P275a: Potential Conflict of Underground Cox Duct and Proposed Storm Pipe

S21: Potential Conflict of 10" Sanitary Sewer with Storm Drain Pipe

W61: Potential Conflict of 10" Abandoned Waterline with Storm Drain Pipe

P163: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe

S20: Potential Conflict of 12" Sanitary Sewer with Storm Drain Pipe

P274, 275: Potential Conflict of Underground Cox Duct and Proposed Storm Pipe

W62: Potential Conflict of 10" Abandoned Waterline with Storm Drain Design

S22: Potential Conflict of 12" Sanitary Sewer with Storm Drain Design

P164: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe

P92: Potential Conflict of 16" Gas Line and Proposed Storm Pipe

P19, 247: Conflict of Power Pole, shared with Cox, and Proposed Improvements

P56: Potential Conflict of Underground Power Line and Proposed Storm Pipe

P93: Potential Conflict of 4" Gas Line and Proposed Storm Pipe

P57: Potential Conflict of Underground Power Connection and Pole Removal

P20, 248: Conflict of Power Pole, shared with Cox, and Proposed Improvements

Traffic Control to be Replaced at this Intersection of Elizabeth Ave and Military Hwy

P58: Potential Conflict of Undgeround Power Line and Proposed Storm Pipe

W53: Potential Conflict of Waterline and Vents with Storm Drain Design

S26: Potential Conflict of 8" Sanitary Sewer and Storm Drain Design

P133: Potential Conflict of Aerial and Underground Fiber Optic with Proposed Roadway Improvements

P166: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe

P21, 148, 249: Conflict of Power Pole, shared with Verizon and Cox, and Proposed Improvements

P276: Potential Conflict of Underground Cox Duct and Proposed Storm Pipe

P94: Potential Conflict of 4" Gas Line and Proposed Storm Pipe

P165: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe

P11: Conflict of Light Pole and Proposed Improvements

P21a, 249a: Conflict of Power Pole, shared with Verizon and Cox, and Proposed Improvements

P115a: Potential Conflict of 12" Gas Line and Proposed Storm Pipe

P95, 96, 97: Potential Conflict of 2" and 4" Gas Line and Proposed Storm Pipe

031 RIPLEY-MEEKINS ASSOCIATES
D-014
DB 1397 PG 490
MB 18 PG 55 (CHES)
TAX #36764000
0.8555 AC

N & H HOTELS, LLC
DOC #040018972
MB 35 PG 30
TAX #38186200
1.1254 AC

N & H HOTELS, LLC
DOC #060005655
MB 35 PG 30 (CHES)
TAX #27686095
0.3099 AC

044 N & H HOTELS, LLC
DOC #060005655
MB 35 PG 30 (CHES)
TAX #27686099
0.87 AC

006 COMMONWEALTH OF VIRGINIA
DB 2761 PG 718
SHPB 9 PG 82
TAX #08138700
0.739 AC

043 DIXON FAMILY LIMITED PARTNERSHIP
DOC #990025760
MB 18 PG 55 (CHES)
TAX #38224700
0.07 AC

COMMONWEALTH OF VIRGINIA (VIRGINIA DEPARTMENT OF TRANSPORTATION)
DB 1527 PG 317
SHPB 8 PG 191,192
TAX #41390500
0.40 AC

003 WOODROW T KEATING JR
JUNE E KEATING
DB 988 PG 413
DB 910 PG 227
MB 18 PG 55
TAX #24054200
0.30 AC

037 CMLT 2008-LSI MILITARY LODGING, LLC
DOC #110004312
MB 52 PG 5 & 6
TAX #80404015
4.0108 AC

032 1500 N MILITARY, LLC
DOC #050022952
MB 39 PG 129
TAX #25587650
8.4865 AC

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	10

23-JUL-2015

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PROJECT MANAGER ____ XXX-XXX-XXXX ____
SURVEYED BY ____ XXX-XXX-XXXX ____
DESIGN SUPERVISED BY _Michelle Martin, PE (757) 466-9607 ____
DESIGNED BY _Parsons Brinckerhoff (757) 466-1732 ____

23-JUL-2015

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	11

RFP PLANS
For Information Only

DATE: 07/27/15

LEGEND

- Denotes New Pavement
- Denotes Sidewalk
- Denotes Existing Asphalt Pavement to be Demolished
- Denotes Existing Concrete or Asphalt Over Concrete to be Demolished
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills
- Dot - dashed lines denote Permanent Easements.

Curve MILALT-8
PI = 351+45.51
DELTA = 2° 01' 31.72" (LT)
D = 0° 42' 44"
T = 142.20'
L = 284.37'
R = 8,044.00'
PCC = 350+03.31
PCC = 352+87.68
V = 45 MPH
E = NC

Curve MILALT-9
PI = 354+25.15
DELTA = 7° 41' 44.08" (LT)
D = 2° 48' 11"
T = 137.47'
L = 274.54'
R = 2,044.00'
PCC = 352+87.68
PT = 355+62.21
V = 45 MPH
E = NC

Curve MILALT-7
PI = 348+66.88
DELTA = 8° 30' 28.93" (LT)
D = 3° 06' 44"
T = 136.94'
L = 273.38'
R = 1,841.00'
PCC = 347+29.94
PCC = 350+03.31
V = 45 MPH
E = NC (ULS)

Sta. 150+44.02 Military Hwy. Constr. BL
Sta. 10+00.00 Lake Wright Dr. Constr. BL
Delta = 85°46'02" Rt.

Match Line See Sheet No. 11B

Military Highway

EVAN C. PARKER & AMY L. PARKER
DOC *050033801
MB 18 PG 55
Tax *3678680
0.30 AC

MICHAEL L. NELSON & DAWN C. NELSON
DOC *070022159
MB 29 PG 13
TAX *07294200
0.38 AC

003 COMMONWEALTH OF VIRGINIA (VIRGINIA DEPARTMENT OF TRANSPORTATION)
DB 1502 PG 547
DB 2637 PG 754
MB 29 PG 13
TAX *4139000-9003
0.86 AC

004 COMMONWEALTH OF VIRGINIA
DOC *090022880
MB 29 PG 13
SHPB 10 PG 304-306
TAX *06282900
0.50 AC

005 COMMONWEALTH OF VIRGINIA (VIRGINIA DEPARTMENT OF TRANSPORTATION)
DOC * 020005460
SHPB 10 PG 42
TAX *12515815
0.34 AC

041 CITY OF NORFOLK
MB 47 PG 10
Tax *80452212

045 NORFOLK SOUTHERN RAILWAY CO.

New R/R Crossing By Others

039 CITY OF NORFOLK
DOC *050006558
MB 49 PG 136A
TAX *80457612
8.000 AC

037 CMLT 2008-LSI MILITARY LODGING, LLC
DOC *110004312
MB 52 PG 5 & 6
TAX *8040401 5
4.0108 AC

038 LAKE WRIGHT HOSPITALITY ONE, LLC
DOC *030008507
MB 52 PG 5 & 6
TAX *8040401 7
4.849 AC

Match Line Sta. 248+75 See Sheet No. 10

Match Line Sta. 255+75 See Sheet No. 12

Match Line Sta. 12+00 See Sheet No. 11B

Begin Const. Lake Wright Drive
Sta. 10+50.00

MILITARY HWY CONSTR. BL

LAKE WRIGHT CONSTR. BL

PCC 350+03.31
PT 609+25.00
PCC 352+87.68
PT 253+70.93

Std. CG-12 Type M2 Req'd.
Std. GR-9 Req'd.
22' Std CG-11 Req'd. Type IV Entr Grade = 1.39%

PI-1: Conflict of Light Pole and Proposed Improvements
W24: Potential Conflict of 6" Waterline with Storm Drain Design and Guardrail
S27: Potential Conflict of 8" Sanitary Sewer with Storm Drain Design and Guardrail
W25: Potential Conflict of 6" Waterline with Storm Drain Pipe
S28: Potential Conflict of 8" Sanitary Sewer with Storm Drain Pipe
PI16: Potential Conflict of 8" Gas Line and Proposed Storm Pipe
PI17: Potential Conflict of 8" Gas Line and Proposed Storm Pipe
W29: Potential Conflict of Fire Hydrant with Proposed Roadway
W33: Potential Conflict of 42" Waterline with Storm Drain Design
W32: Potential Conflict of 4"/6" Waterline with Storm Drain Pipe
PI-3: Conflict of Light Pole and Proposed Improvements
P28l: Potential Conflict of Underground Cox Cable and Proposed Storm Pipe
P21b, 249b: Conflict of Power Pole, shared with Verizon and Cox, and Proposed Improvements
P21c, 249c: Conflict of Power Pole, shared with Verizon and Cox, and Proposed Improvements
TC3: Potential Conflict of Aerial and Underground Fiber Optic with Proposed Roadway Improvements
W26: Potential Conflict of 6" Waterline with Storm Drain Pipe
P23, 251: Conflict of Power Pole shared with Cox and Proposed Improvements
P24, 252: Conflict of Power Pole, shared with Cox, and Proposed Improvements
W28: Potential Conflict of 48" Waterline with Storm Drain Pipe
P22, 250: Conflict of Power Pole Shared with Cox and Proposed Improvements
P27l: Potential Conflict of Underground Cox Cable and Proposed Storm Pipe
P167: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe
W30: Potential Conflict of Fire Hydrant with Proposed Roadway
P25, 253: Conflict of Power Pole, shared with Cox, and Proposed Improvements
Traffic Control to be Replaced at this Intersection of the Railroad and Military Hwy
W31: Potential Conflict of 48" Waterline with Storm Drain Pipe
P167a: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe
W34: Potential Conflict of 42" Waterline with Storm Drain Design
PI-3: Conflict of Light Pole and Proposed Improvements
P26, 254: Conflict of Power Pole, shared with Cox, and Proposed Improvements

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	11

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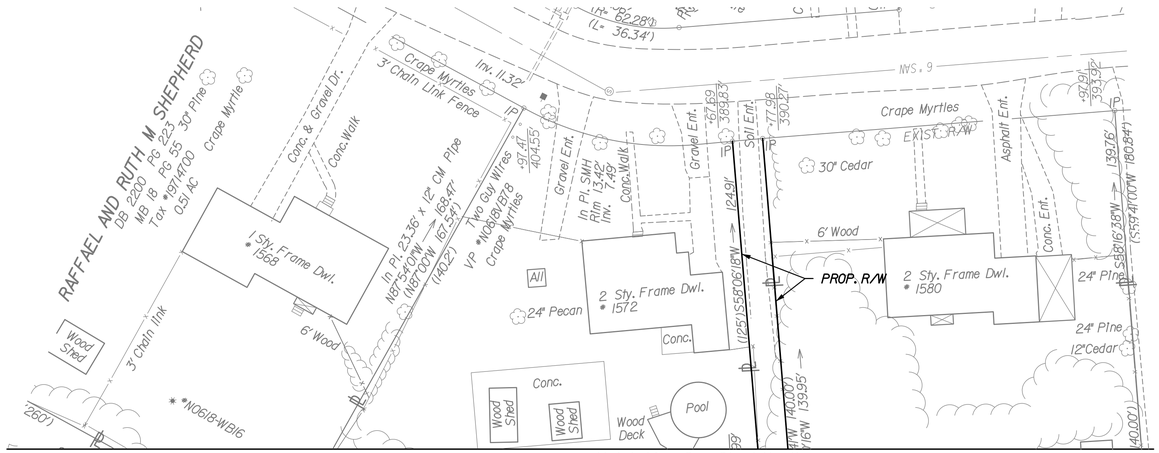
PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9507
DESIGNED BY Parsons Brinckerhoff (757) 466-1732

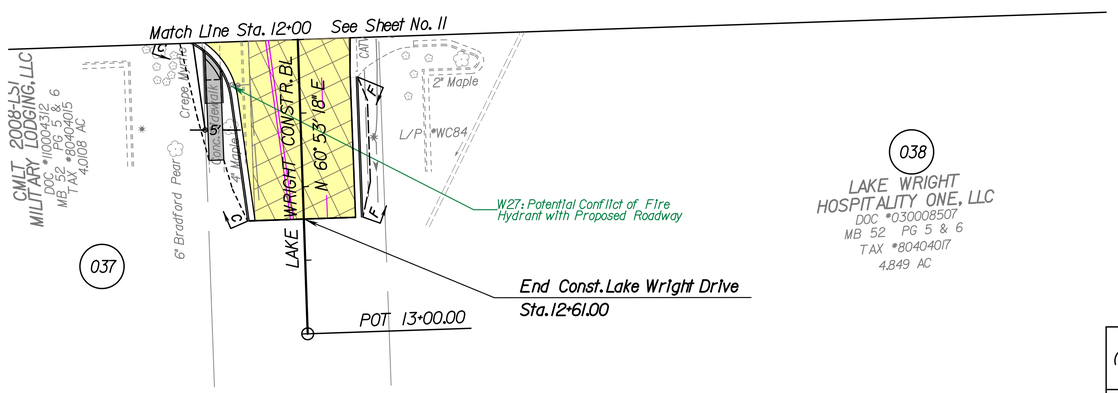
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	11B

RFP PLANS
For Information Only

DATE: 07/27/15

23-JUL-2015





LEGEND

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- F — Denotes Construction Limits In Fills
- Dot - dashed lines denote Permanent Easements.

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	11B

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PROJECT MANAGER XXX-XXX-XXXX
SURVEYED BY XXX-XXX-XXXX
DESIGN SUPERVISED BY Michelle Martin, PE (757) 466-9507
DESIGNED BY Parsons, Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	12

RFP PLANS
For Information Only

DATE: 07/27/15

Military Highway

23-JUL-2015

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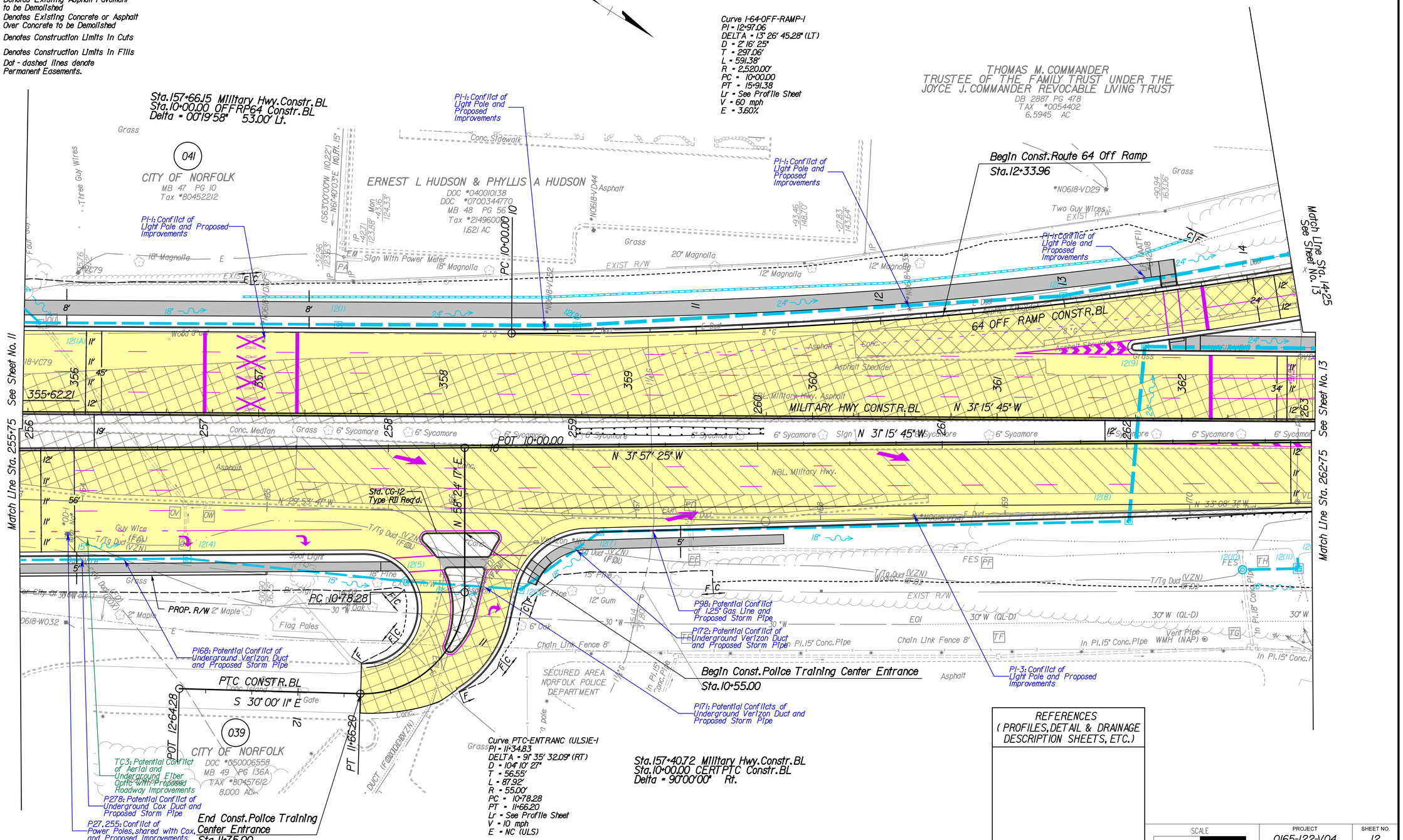

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0165-122-V04	12

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PROJECT MANAGER
SURVEYED BY
DESIGN SUPERVISED BY
DESIGNED BY

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	I65	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	13

RFP PLANS
For Information Only

DATE: 07/27/15

Military Highway

Curve OFFRP64_I
PI = 12+97.06
DELTA = 13° 26' 45.28" (LT)
D = 2° 16' 25"
T = 297.06'
L = 591.38'
R = 2,520.00'
PC = 10+00.00
PT = 15+91.38
Lr = See Profile Sheet
V = 60 mph
E = 3.60%

Curve I-64-OFF-RAMP-2
PI = 18+63.13
DELTA = 10° 55' 24.55" (LT)
D = 4° 30' 00"
T = 121.74'
L = 242.74'
R = 1,273.24'
PC = 17+41.39
PT = 19+84.13
Lr = See Profile Sheet
V = 60 mph
E = 4.00%

THOMAS M. COMMANDER
TRUSTEE OF THE FAMILY TRUST
UNDER THE JOYCE J. COMMANDER
REVOCABLE LIVING TRUST
DB 2887 PG 478
TAX #0054402
6.5945 AC

BREOF AIP
VIRGINIA, LP
DOC #050039699
MB 45 PG 51
TAX #3158491C
6.397 AC

End Proj.0165-122-V04,PE-101,PE-102,
PE-103,RW-201,C-501 UPC 17765
Sta.162+42.70 Military Hwy.Constr.BL
Begin Proj.0165-122-181,RW-201,C-501
UPC 84243
Sta.162+46.15 Military Hwy.Constr.BL

End Const.
Route 64 Off Ramp
Sta.18+83.58

Begin Constr.Retaining Wall
Sta.165+50.00 MLCBL

Prop.FOC Break Pt.
Sta 164+46.32 (40.26' LT)

Begin Construction On Loop
POT Sta.10+00.00 On Loop BL
POT Sta.167+67.49 MLCBL

End Constr.Mod.Retaining Wall
End Safety Slope Facing Req'd @ Retaining Wall
Sta.167+45.00 Military Hwy LCBL

Begin Constr.Retaining Wall
Sta.166+97.97 Mil.Hwy CBL

Std FE-CL
Sta 163+03.20
(53.82' Rt.) Constr.B

Std 12' FE-4 Watergate
Ty.II Req'd.Posts
Sta.163+03.21 (60.77' Rt.)
& Sta.163+03.21 (72.77' Rt.)

PI-1: Potential Conflict of Light Pole and Proposed Improvements

PI-2: Potential Conflict of Light Pole and Proposed Improvements

PI-3: Potential Conflict of Light Pole and Proposed Improvements

PI-4: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe

PI-9: Potential Conflict of Light Pole and Proposed Improvements

PI8: Potential Conflict of 8" Gas Line and Proposed Storm Pipe

PI9: Potential Conflict of 8" Gas Line and Proposed Storm Pipe

UNK4: Potential Conflict of Unknown Utility and Storm Drain Design

W37: Potential Linear Conflict of 30" Waterline with Various Improvements

P59: Potential Conflict of Underground Power Line and Proposed Storm Pipe

P60: Potential Conflict of Underground Power Line and Proposed Storm Pipe

PI73: Potential Conflict of Underground Verizon Duct and Proposed Storm Pipe

Rte.I-64 Constr.BL
N 44° 42' 30" W
64 OFF RAMP CONSTR.BL
MILITARY HWY CONSTR.BL
N 31° 35' 43" W
N 26° 35' 43" W
N 70° 28' 57" W
POT 164+00.00
POT 364+82.13
POT 265+11.89
POT 10+00.00
POT 116+00.00
PC 17+41.39
PT 15+91.38
PC 10+96.22
See Sheet No. 12
Match Line Sta. 14+25
Match Line Sta. 362+75
See Sheet No. 14
Match Line Sta. 169+00
Match Line To Sheet 14G

5' Conc.Sidewalk Req'd
6.50' Min.Conc.Sidewalk Req'd

LEGEND

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- Dot-dashed lines denote Permanent Easements.

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	13

23-JUL-2015

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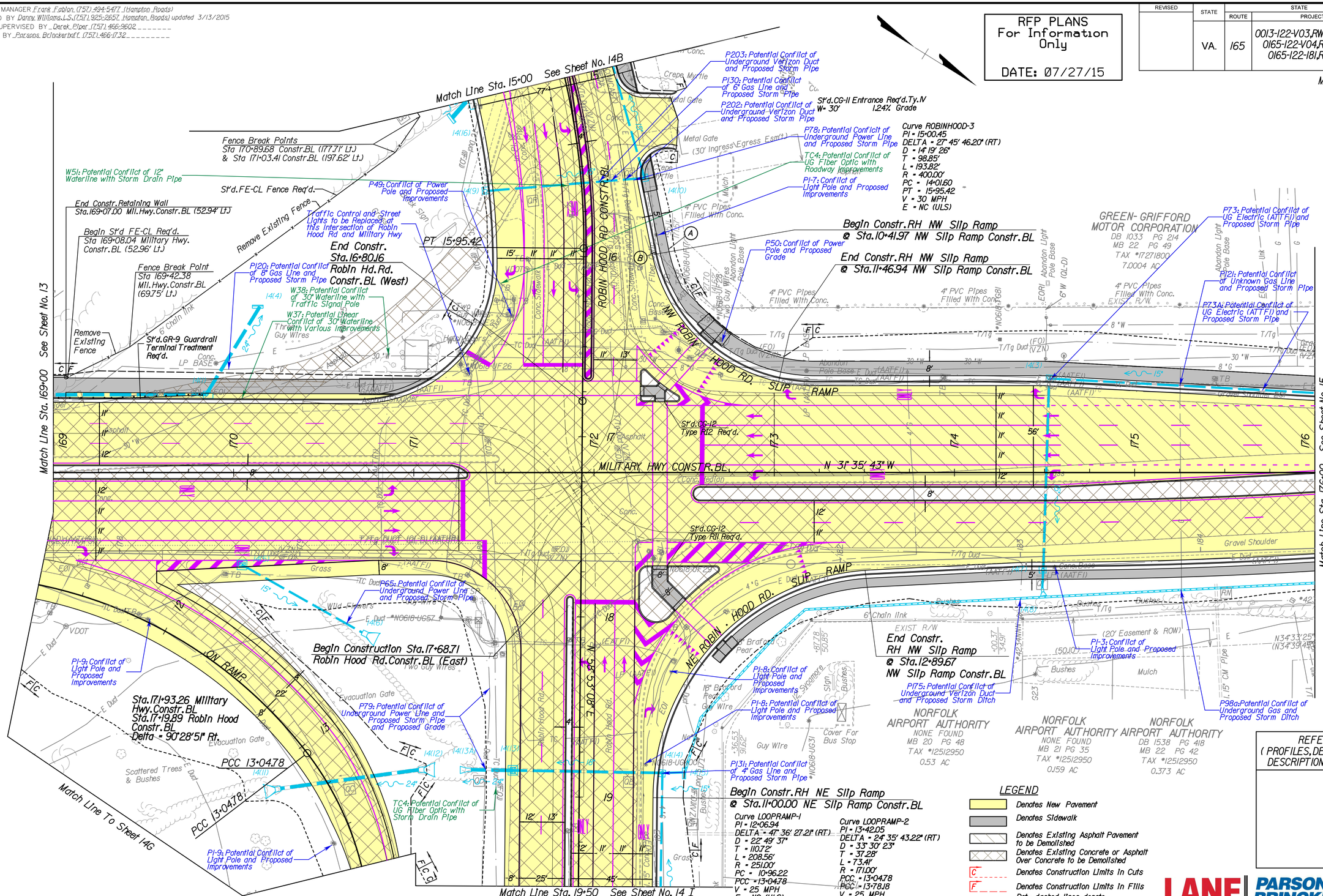
PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	14

RFP PLANS
For Information Only
DATE: 07/27/15

23-JUL-2015



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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	14

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PROJECT MANAGER
SURVEYED BY
DESIGN SUPERVISED BY
DESIGNED BY

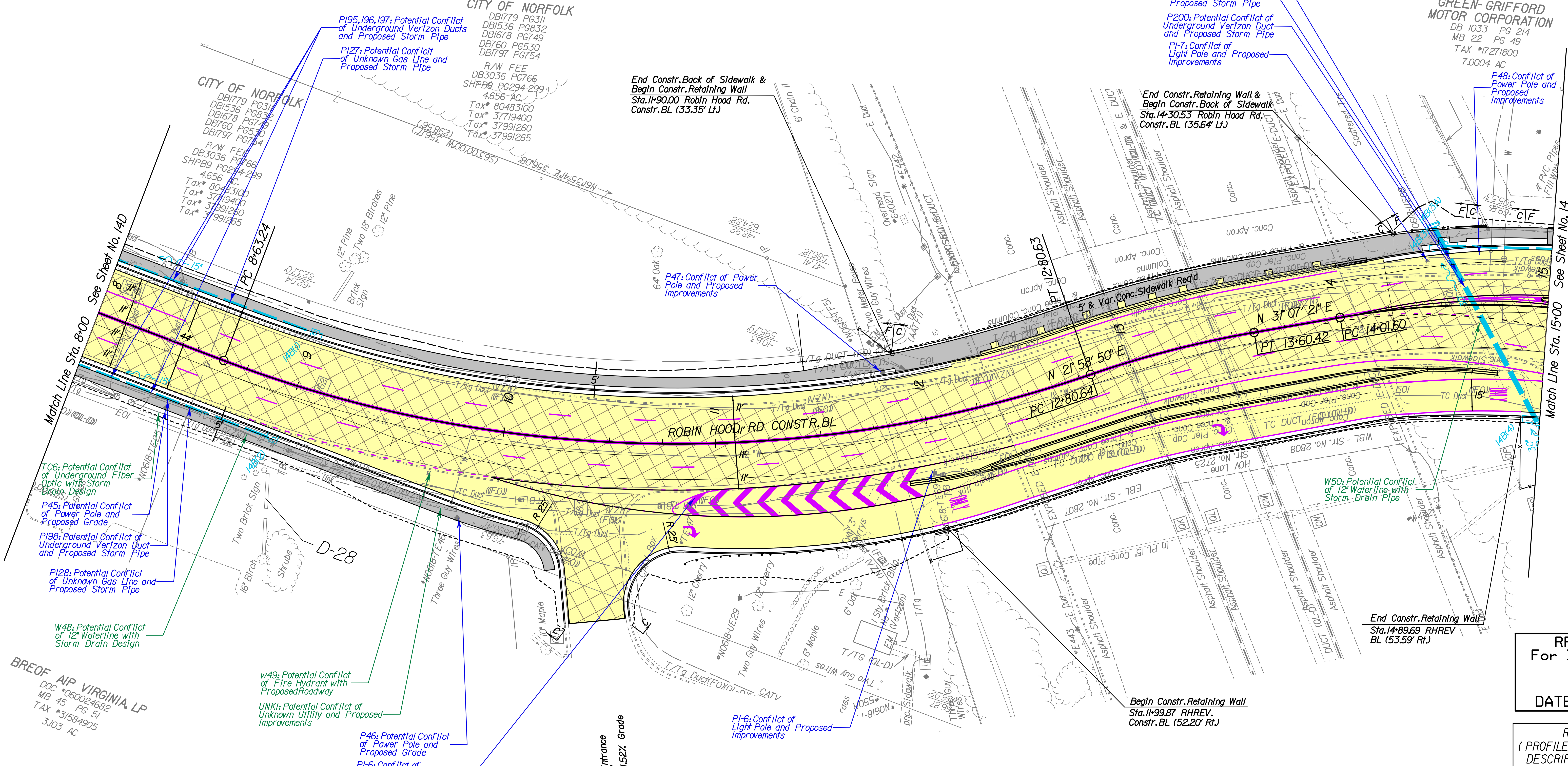
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	14B

Robin Hood Road

ROBIN HOOD ROAD Construction Baseline (RHREV)

Curve RHREV2	Curve RHREV3	Curve RHREV4
PI = 10+80.78	PI = 13+20.62	PI = 15+00.45
DELTA = 39° 51′ 28.05″ (LT)	DELTA = 9° 08′ 31.38″ (RT)	DELTA = 27° 45′ 46.20″ (RT)
D = 9° 32′ 57″	D = 11° 27′ 33″	D = 14° 19′ 26″
T = 217.54′	T = 39.97′	T = 98.85′
L = 417.39′	L = 79.78′	L = 193.82′
R = 600.00′	R = 500.00′	R = 400.00′
PC = 8+63.24	PC = 12+80.64	PC = 14+01.60
PT = 12+80.63	PT = 13+60.42	PT = 15+95.42
DV=30 MPH	DV=30 MPH	DV=30 MPH
E= NC	E=NC	E=NC



Curve ROBINHOOD-1	Curve ROBINHOOD-2
PI = 10+80.78	PI = 13+20.62
DELTA = 39° 51′ 28.05″ (LT)	DELTA = 9° 08′ 31.38″ (RT)
D = 9° 32′ 57″	D = 11° 27′ 33″
T = 217.54′	T = 39.97′
L = 417.39′	L = 79.78′
R = 600.00′	R = 500.00′
PC = 8+63.24	PC = 12+80.64
PT = 12+80.63	PT = 13+60.42
V = 30 MPH	V = 30 MPH
E = NC (ULS)	E = NC (ULS)

LEGEND

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RFP PLANS
For Information Only

DATE: 07/27/15

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

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25′ 50′	0165-122-V04	14B

23-JUL-2015

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PROJECT MANAGER
SURVEYED BY
DESIGN SUPERVISED BY
DESIGNED BY

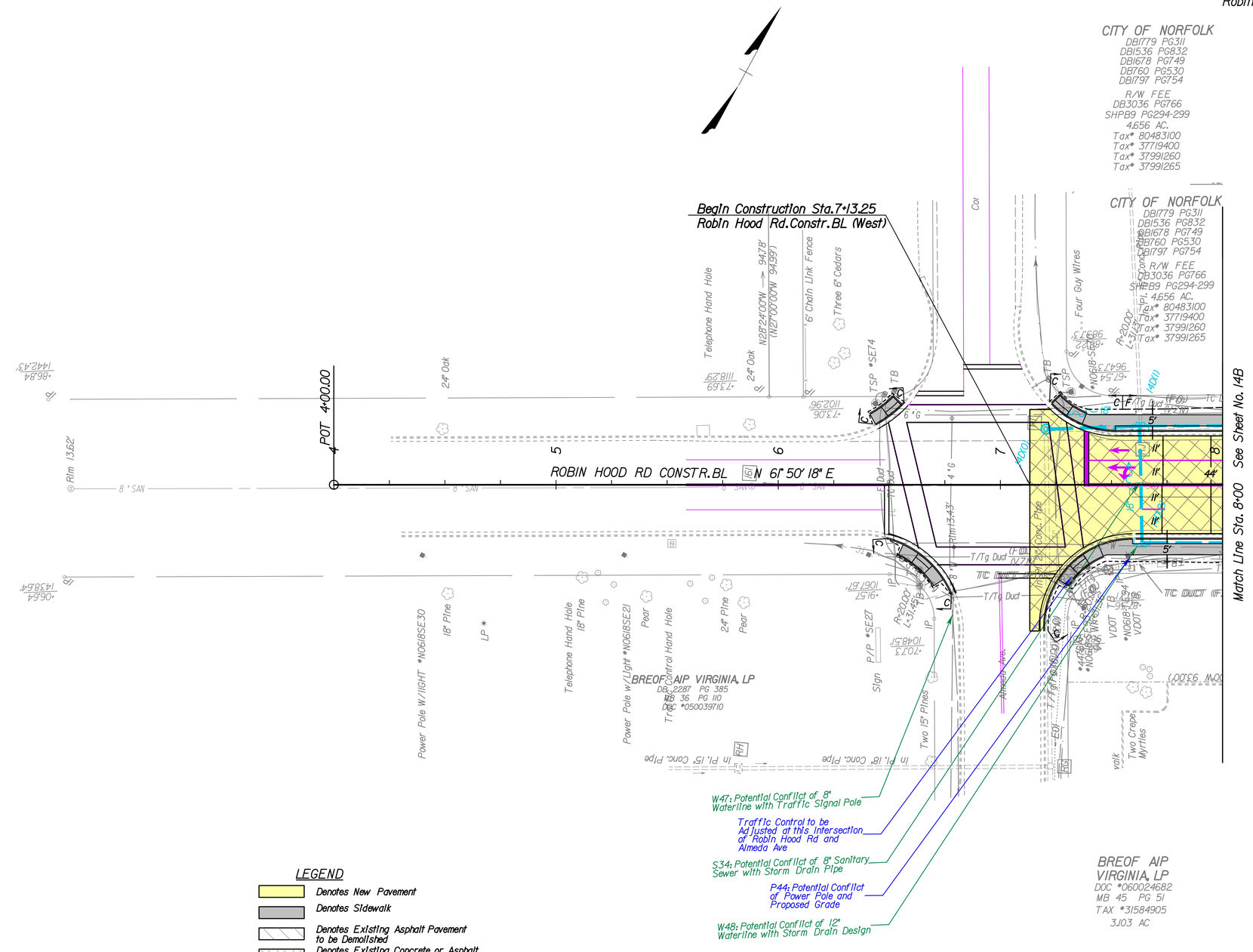
RFP PLANS
For Information Only

DATE: 07/27/15

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	14D

Robin Hood Road



REFERENCES
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LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	14D

23-JUL-2015

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PROJECT MANAGER Frank Fabian, (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams, L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGNED BY Parsons Brinckerhoff (757) 466-0732

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	14G

RFP PLANS
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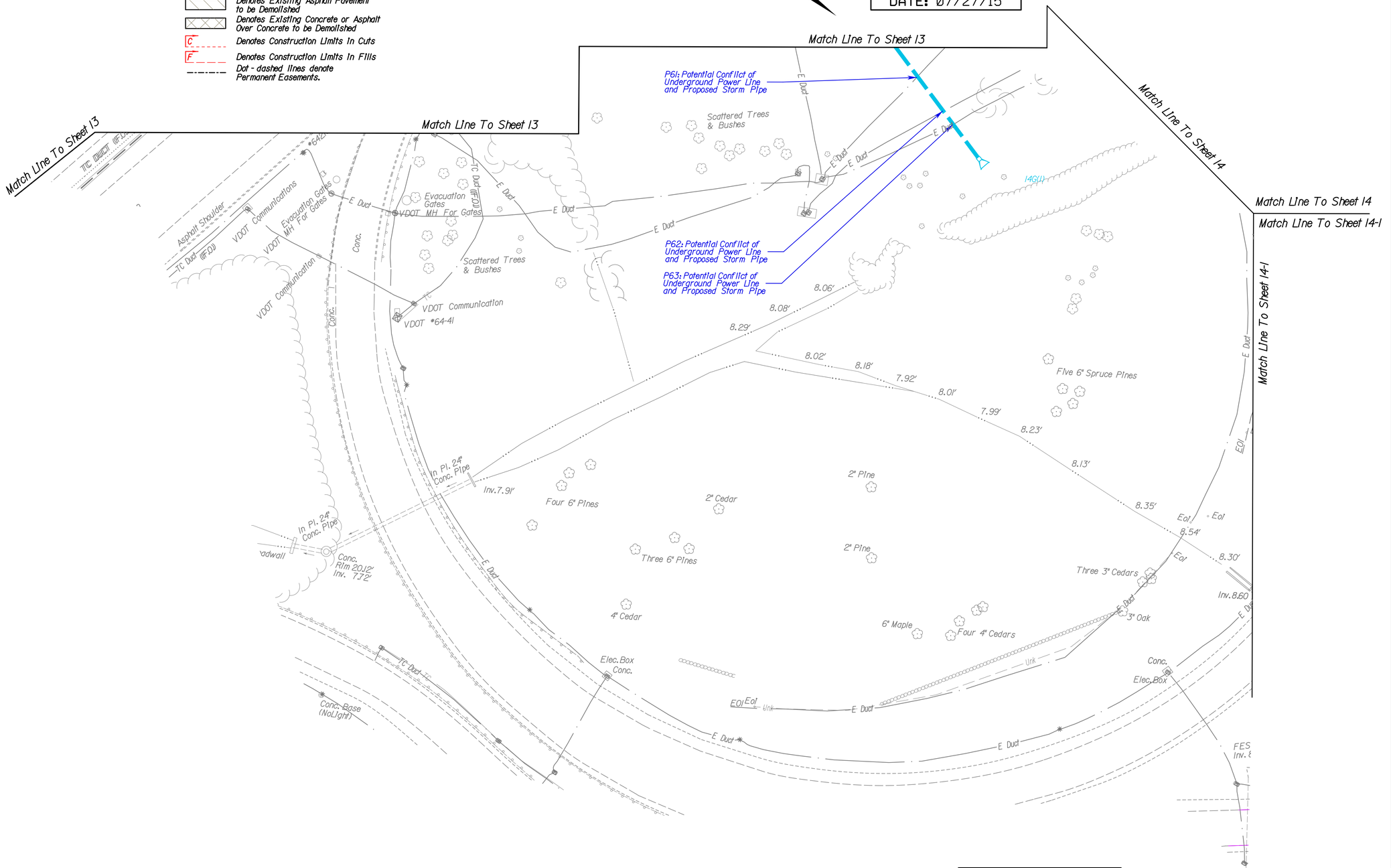

REFERENCES
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LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	14G

23-JUL-2015

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PROJECT MANAGER_____
SURVEYED BY_____
DESIGN SUPERVISED BY_____
DESIGNED BY_____

RFP PLANS
For Information Only

DATE: 07/27/15

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	14-1

Robin Hood Road

23-JUL-2015

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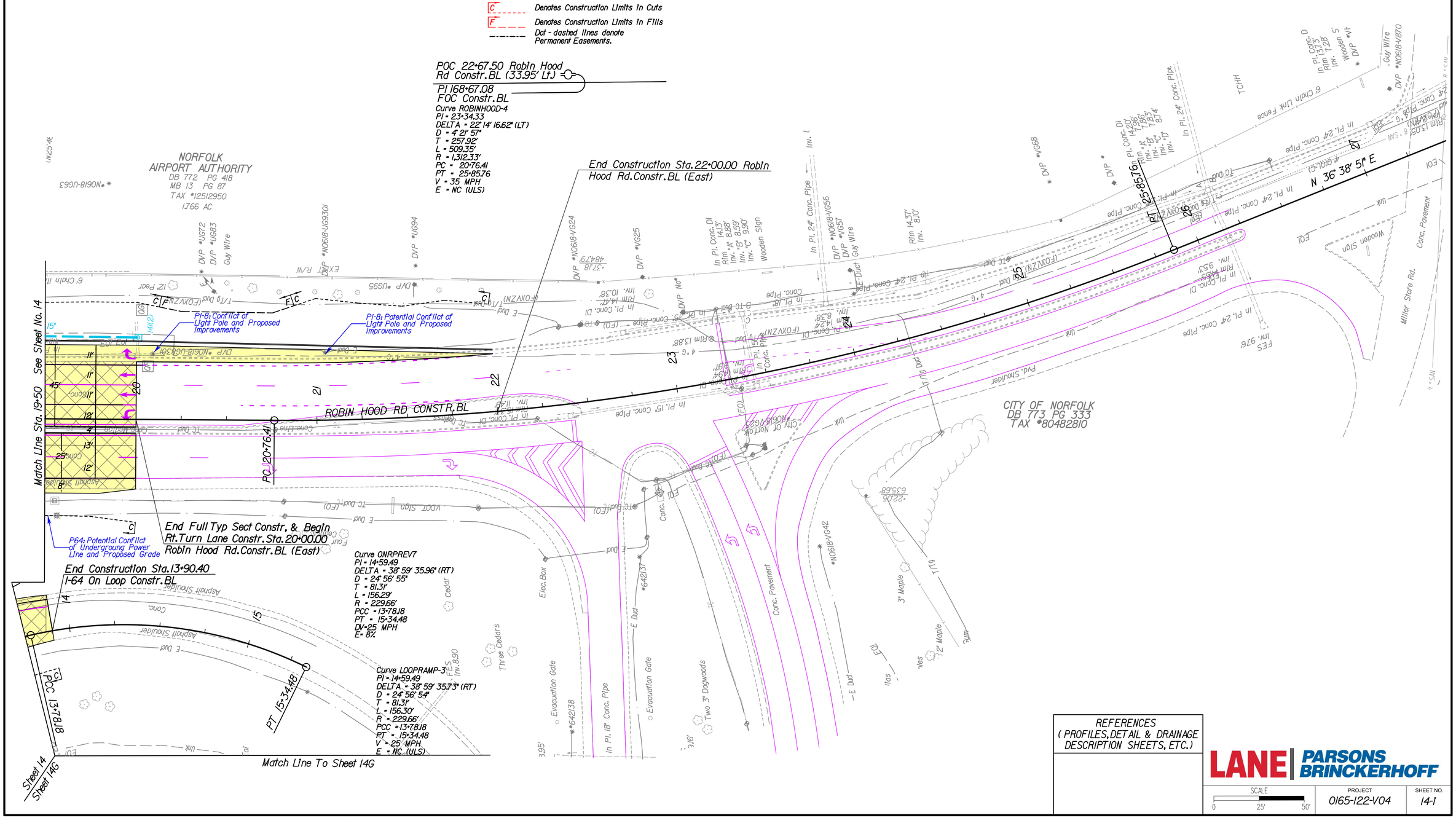

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	14-1

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PROJECT MANAGER Frank Fabian (757) 494-5477 (Hampton Roads)
SURVEYED BY Danny Williams L.S. (757) 925-2657 (Hampton Roads) updated 3/13/2015
DESIGN SUPERVISED BY Derek Piper (757) 466-9602
DESIGN BY Parsons Brinckerhoff (757) 466-1732

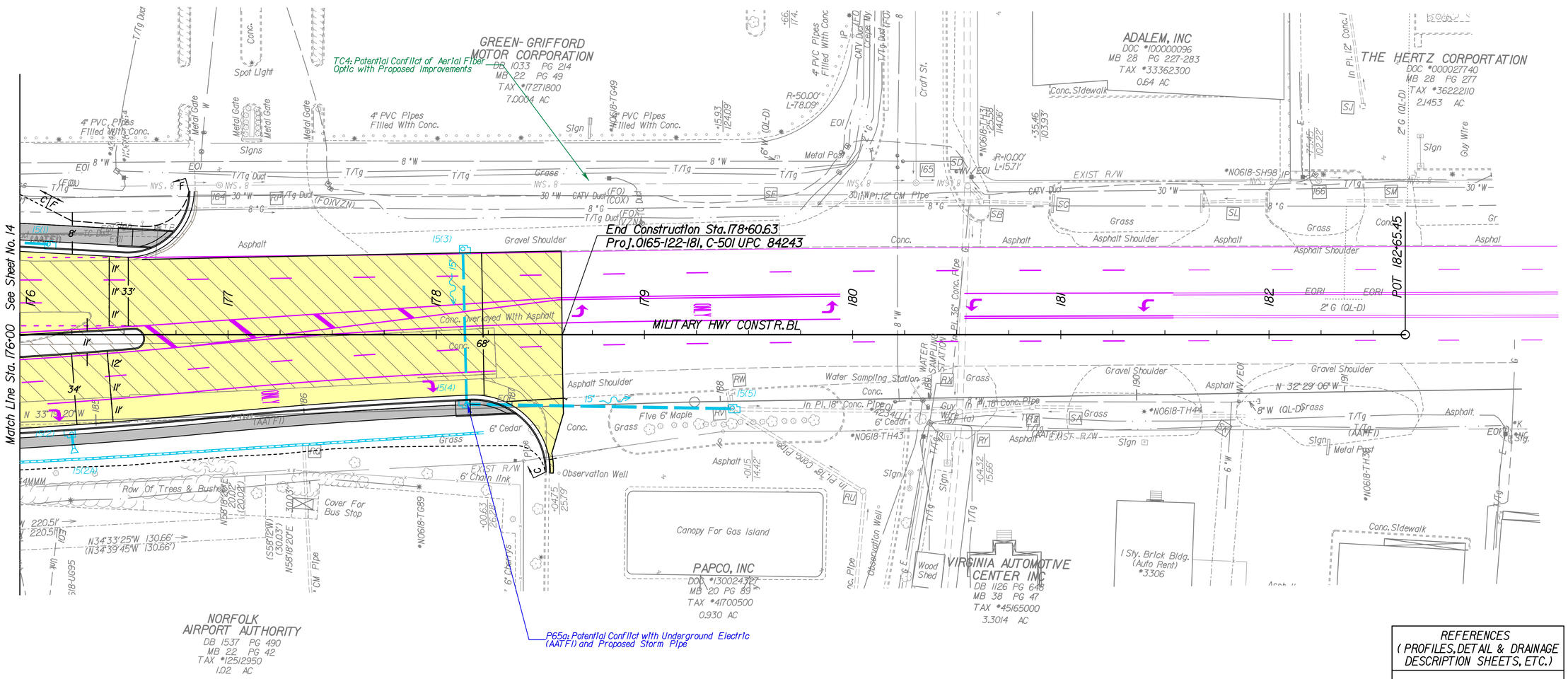
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	165	0013-122-V03,RW-203,C-503 0165-122-V04,RW-201,C-501 0165-122-181,RW-201,C-501	15

RFP PLANS
For Information Only

DATE: 07/27/15

Military Highway

23-JUL-2015



REFERENCES
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LANE | PARSONS BRINCKERHOFF

SCALE	PROJECT	SHEET NO.
0 25' 50'	0165-122-V04	15

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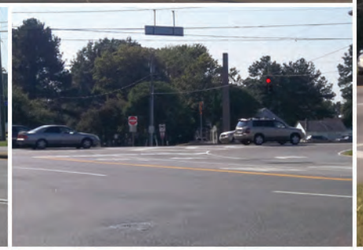

The Lane Construction Corporation
14500 Avion Parkway, Suite 200
Chantilly, VA 20151
www.laneconstruct.com

LANE