



901 East Byrd Street, Suite 1120, Richmond, Virginia 23219
Telephone 804-523-3300 – www.rmaonline.org – Fax 804-523-3330

Contract: MR - 2021
Miscellaneous Repairs

Pre-Bid Meeting Attendance
June 10th, 2021

Name	Company	Phone	E-Mail	Initials	RMA use
Ms. Theresa Simmons	RMTA	(804) 523-3320	theresa.simmons@rmtaonline.org		
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Name	Company	Phone	E-Mail	Initials	RMA use
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RICHMOND METROPOLITAN TRANSPORTATION AUTHORITY



We provide safe, convenient, efficient facilities and excellent customer service while maintaining the lowest feasible costs.

RMTA Contract MR-2021 Miscellaneous Repairs

**Pre-Bid Meeting
June 10th, 2021
10:00 AM**



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- Agenda:
 - Complete sign in sheet (meeting Attendee list)
 - Introductions
 - A copy of this presentation will be posted on the RMTA website.
 - Bidding requirements
 - Liquidated Damages
 - Work Items / Site Photos
 - Staging Areas
 - Contract Timeline
 - Addendum
 - Scheduled Site Visit

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- Bid Delivery and Bid Opening due to Covid Protocol:
 - Bid Packages are due as indicated in the Invitation to Bid.
 - RMTA staff will receive bids and log all packages at the RMTA Main Office.
 - Immediately Afterwards, the Sealed Bid Packages will be transferred to the Powhite South Operations Building for a virtual Bid Opening.
 - Attendees from this meeting will receive an invitation to attend the bid opening meeting.
 - Anticipate the bid opening meeting to begin 15-30 minutes after bids are due at 10:00 AM

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- Contract Book
 - Broken down into (3) sections:
 - Contract & Bid Documents
 - Supplemental Specifications to the 2020 VDOT Specifications
 - Special Provisions and Repair Details
- Appendix
 - System Map, I-95 Pier Map
 - “Selected” As-Built Drawings from Original Construction

Download from RMTA website www.rmtaonline.org or directly at :

https://www.rmtaonline.org/wp-content/uploads/2021/06/MR-2021_APPENDIX.pdf

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- Bidding Requirements (1 of 4):
 - Attend Pre-Bid Meeting
 - Responsible for verifying scope of work, field conditions and examining work locations
 - Prequalified by VDOT for bidding on State Projects
 - The following categories are preferred:
 - **Major Structures and/or Bridge Repair.**
 - The Authority reserves the right to request additional experience information for any bidder that has not been assigned the “Major Structures” and/or “Bridge Repair” work classes by VDOT.

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- Bidding Requirements (2 of 4):
 - Jacking and Blocking of Beams and Structural Steel Repairs Experience
 - 3 bridge superstructure repair projects (minimum)
 - 1 or more beams jacked off the bearing with portion of beam replaced by welding for **each** repair project
 - Complete bidder forms BSS-1, BSS-2

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- Bidding Requirements (3 of 4):
 - Shotcrete experience on bridge superstructures
 - 3 projects (minimum)
 - 10,000 S.F. minimum total from 3 projects
 - Complete bidder forms BS-1, BS-2

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- Bidding Requirements (4 of 4)

Submit All Required Forms, properly executed:

- Bid
- Non-Collusion Affidavit
- Statement of Contracts Underway
- Joint Venture Statement (if applicable)
- Shotcrete Experience
- Steel Repair Experience
- Bid Bond
- Receipt of Addenda (if applicable)
- Railroad Agreement (**CSX Schedule I - signed**)

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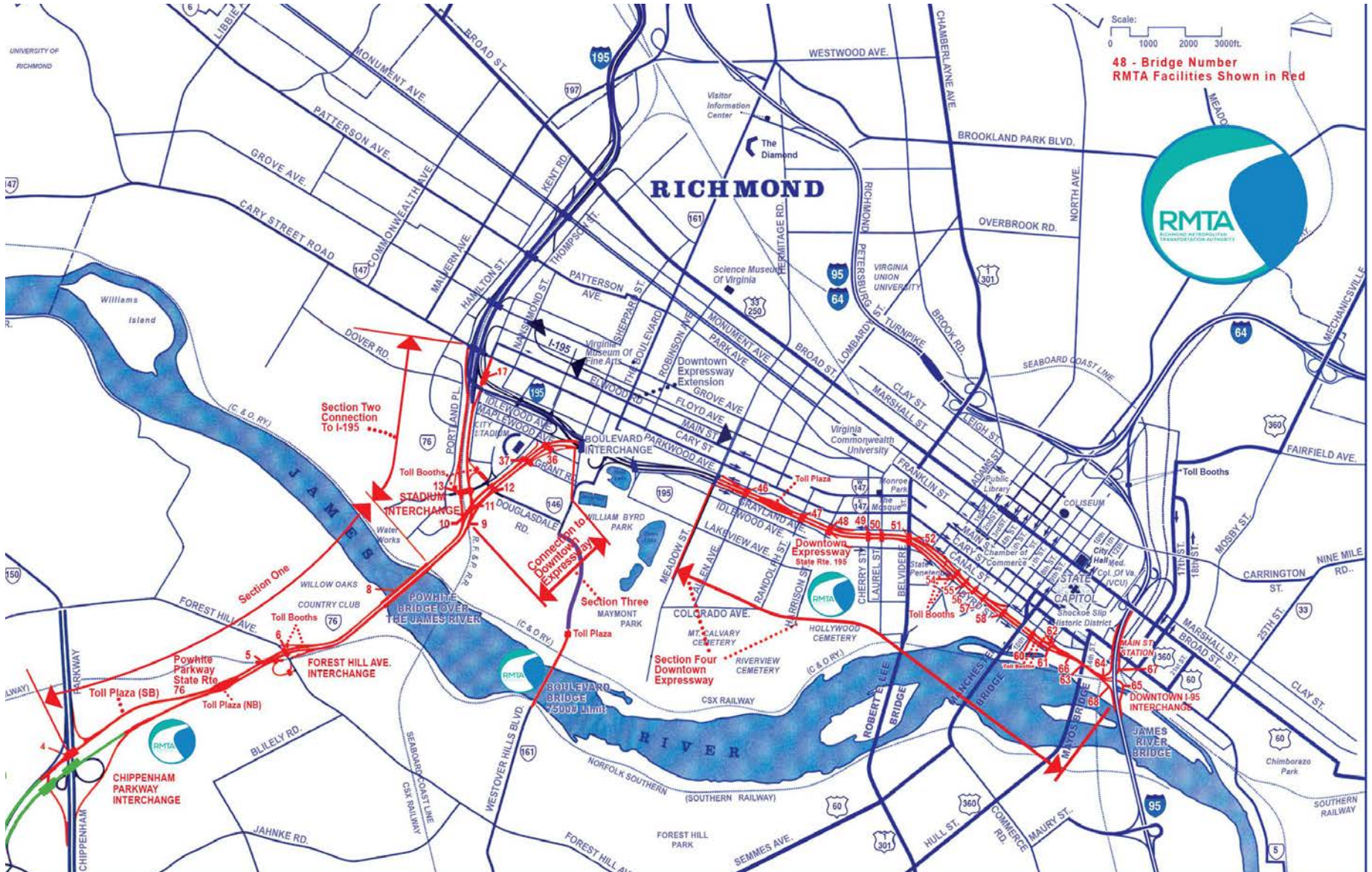
- Liquidated Damages (1 of 2):
 - MOT:
 - RMTA reserves the right to charge damages of \$1,000 per every 15 minutes a lane / ramp closure is in place beyond prescribed time or lane closure is in place for more than 1 hour before or after active work is on-going.
 - It will be the Contractor's sole responsibility to enter the work zone in LCAMS and VA Traffic. Contractor shall notify VDOT Traffic Operations Center (Smart Traffic) at 804-796-4520 to advise of the lane closure status when the first sign is placed, and last sign is picked up. The Contractor shall communicate any changes in these times/dates immediately with the Engineer.
 - Certified Personnel
 - Contractor's foreman (or another on-site employee) must be properly trained. The training requirement is the "Basic WZTCT" course approved by VDOT.
 - If a trained employee is not on site, RMTA reserves the right to charge damages of \$1,000 per day.

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- Liquidated Damages (2 of 2):
 - Completion Dates
 - All Shotcrete Repairs – November 22, 2021
 - Project Completion – July 1, 2022
 - Railway Coordination Services
 - See Railway-Highway Provisions in the Supplemental Specifications 107.19 for Specific Instructions for working with NS and CSX and Timeline for Submittals
 - Special Provision SP-W for CSX Transportation Construction Agreement

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- Significant Work Items (1 of 5):

- Steel Repairs:

- Bridge 13 (Powwhite) 1 location
- Bridge 17 (Powwhite) 2 locations
- Bridge 47 (DTE) 2 locations
- Bridge 62 (DTE) 1 location
- Bridge 63 (DTE) 1 location
- Bridge 64 (DTE) 2 locations
- Bridge 66 (DTE) 3 locations
- Bridge 67 (DTE) 18 locations

MR-2021 Bridge 13



**Douglasdale road over I-195
Connector/Powwhite Pkwy and CSX
railroad**

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Bridge 13



**BRIDGE 13
SOUTH SIGN SUPPORT
SOUTH FACE
CLOSE-UP OF CRACKED WELD**



**BRIDGE 13
SOUTH SIGN SUPPORT
SOUTH FACE
CRACKED WELD**

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Bridge 17



**Ramp from NB Powhite Parkway/NB I-195 Connector
over NB I-195 to Cary St and Ramp from NB I-195 to
Floyd Avenue**

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Bridge 17

North Abutment – Floyd Avenue & W. Cary St expansion joint repair



**BRIDGE 17, NORTH ABUTMENT
S. FLOYD AVE.**



**BRIDGE 17, NORTH ABUTMENT
S. CARY ST.**

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Bridge 47



Randolph St over DTE

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Bridge 47

Span 1, Springer 1



**BRIDGE 47
SPAN 1, STRINGER 1
REPAIR 1**



**BRIDGE 47
SPAN 1, STRINGER 1
REPAIR 2**

MR-2021 Bridge 62



**Ramp from WB DTE to Canal St over 12th
St and the ramp from 12th St to WB DTE**

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West Abutment Girders 1 – 4 Bearing Realignment



**BRIDGE 62, WEST ABUTMENT
ABUTMENT ELEVATION**



**BRIDGE 62, WEST ABUTMENT
TYPICAL GIRDERS 1-4 MISALIGNED**

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Bridge 62

West Abutment Girders 1 – 4 Bearing Realignment



BRIDGE 62, WEST ABUTMENT
TYPICAL GIRDERS 1-4 CLOSE-UP VIEW



BRIDGE 62, WEST ABUTMENT
GIRDER 5 BEARING
FOR INFORMATION ONLY

MR-2021 Bridge 63



**WB DTE over Virginia St, South 14th St,
and CSX railroad**

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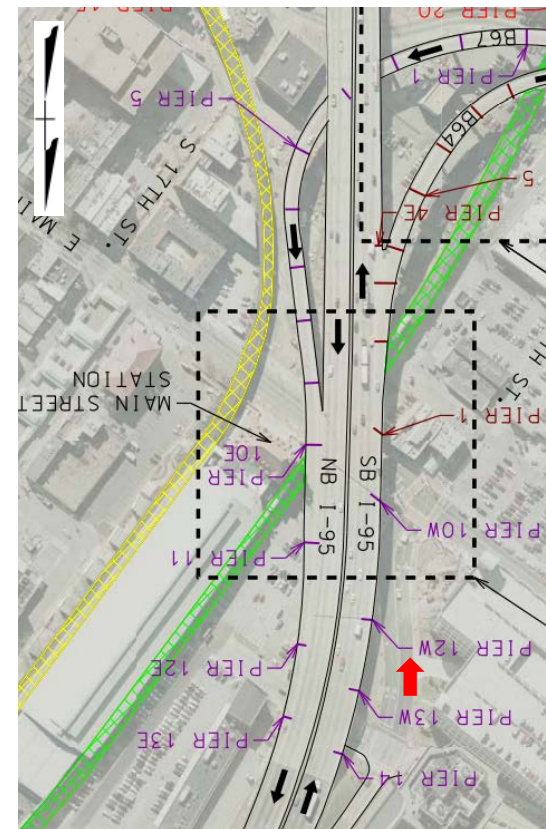
Bridge 63/66

Reconnect Dry Fire Protection Standpipes (3 locations)



MR-2021 Bridge 67

West Truss Adjacent to B64



Ramp from SB I-95 to WB DTE over East Cary St, Dock St and CSX railroad

MR-2021 Bridge 67

West Truss Adjacent to B64

Truss Unit, Pier 10W Floorbeam 0, South Face Bolt Replacement



REPLACE 18 - $\frac{7}{8}$ " DIA.
BOLTS WITH NEW BOLTS

**FLOORBEAM 0, SOUTH FACE
BOLT REPLACEMENT**

MR-2021 Bridge 64

Unit 2, Stringer 1, Pier 92 Stringer Strengthening



SECTION LOSS

**UNIT 2, STRINGER 1 @ PIER 92
EXISTING CONDITION**

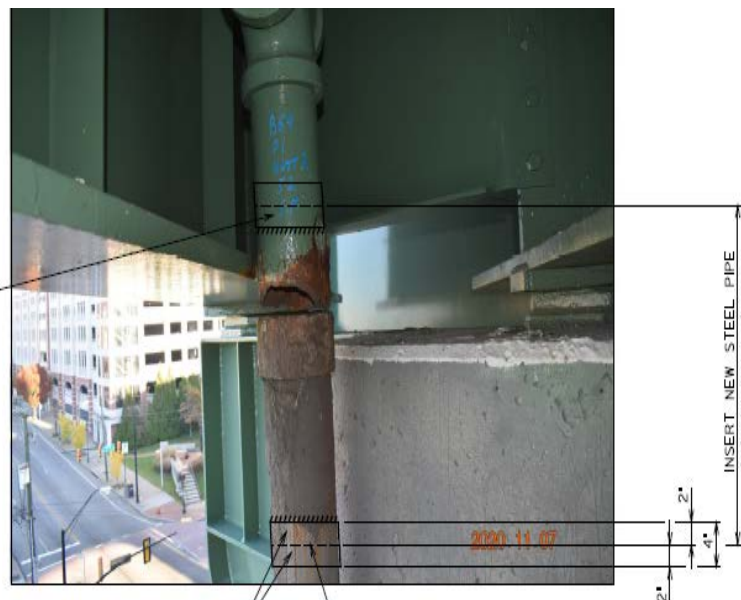
MR-2021 Bridge 64

Unit 2, Pier 1, Drainpipe Repair



EXISTING DRAIN PIPE @ UNIT 2, PIER 1

REMOVE THIS LENGTH OF PIPE



NEW STEEL SLEEVE (TYP)

FILL ENTIRE VOID WITH CAULKING (TYP BOTH JOINTS)

TIGHT FIT JOINING NEW STEEL PIPE SECTION TO EXISTING PIPE SECTIONS, CAULK ENTIRE SEAM (TYP BOTH SEAMS)

INSERT NEW STEEL PIPE SECTION WITH TIGHT FIT

PROPOSED DRAIN PIPE @ UNIT 2, PIER 1

MR-2021 Bridge 66



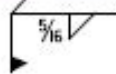
**EB DTE over Virginia St, South 14th St,
South 12th St and CSX**

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Bridge 66

Unit 2, Beam 1, Pier 1

Broken Weld Repair at Bearing North Face



REPAIR LOCATION

UNIT 2, BEAM 1, PIER 1
BROKEN WELD REPAIR @ BEARING
NORTH FACE

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Bridge 66



**BRIDGE 66, PIER 16, SPAN 16
TYPICAL MISALIGNED BEARING**



**BRIDGE 66, PIER 19, SPAN 19
TYPICAL MISALIGNED BEARING**

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Bridge 67



Ramp from EB DTE to NB I-95 over East Cary St, Dock St, East Main St and CSX railroad

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Pier 10E Retrofit Downspout Connections



BRIDGE 67, PIER 10E



BRIDGE 67, PIER 10E
CLOSE-UP VIEW

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Bridge 67

Pier 13E Span 14 Stringer 1 Misaligned bearing



**BRIDGE 67, PIER 13E, SPAN 14
SOUTH FACE, MISALIGNED BEARING**



**BRIDGE 67, PIER 13E, SPAN 14
SOUTH FACE, MISALIGNED BEARING**

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- Significant Work Items (2 of 5):
 - Overhead Sign #200548
 - The location of the overhead sign structure is just south of the James River Bridge (Bridge 8SB) on the west end of the shoulder. The repair is to retrofit the end diagonal containing 100% localized section loss with a pipe sleeve.

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Overhead Sign Structure #200548



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- Significant Work Items (3 of 5):
 - B8S Deck Joint Leveling
 - The repair is jacking and shimming of 3 bearings beneath the 4th travel lane (from the inside parapet wall, in the direction of travel), at each of the following locations: Piers 2, 9, 10, 11, 14 and 15. Note that Piers 14 and 15 are adjacent to CSX Railroad and may require a railroad flagger. There are anticipated to be a total of eighteen (18) locations.

MR-2021 Bridge 8S



**SB Powhite Parkway Over James River
Kanawha Canal and CSX**

MR-2021 Bridge 8S



Pier 2, 9, 10, 11, 14 & 15



TYPICAL ORIGINAL BEARINGS



TYPICAL UNLEVEL DECK JOINT

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B8S Deck Joint Leveling



TYPICAL ORIGINAL BEARINGS



TYPICAL BEARINGS ON WIDENED PORTION



TYPICAL UNLEVEL DECK JOINT



TYPICAL NEW PIER

TYPICAL PIER
(LOOKING NORTH)

BRIDGE 8N

TYPICAL ORIGINAL PIER

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- Significant Work Items (4 of 5):
 - Concrete Coating
 - This work shall consist of high pressure (min. 3000 psi) water cleaning, patching, and coating the Abutments, Piers and Caps of the RMTA bridges at the I-95 Interchange. The intent of this work is to provide a properly prepared concrete surface that is suitable for application and adhesion of two coats of polyamide epoxy by brush and roll only. No spraying will be allowed.

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B63-68 Concrete Coatings



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- Significant Work Items (5 of 5):
 - Debris Removal at the James River Bridge (Powhite Parkway)
 - This work shall consist of accessing, removing, and disposing of accumulated river debris around the piers of the James River Bridge (RMTA Bridge #8).
 - The contractor shall remove all accumulated river debris from the James River within the limits of 30 linear feet in all directions of all piers of the James River Bridge or as directed by the Engineer.
 - Lane closures and other applicable maintenance of traffic items will be required to perform this operation.
 - Once the debris has been removed, it must be disposed of off site and according to applicable laws pertaining to such.

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Debris Removal B8



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- Minor / Remaining Work Items (1 of 2):
 - Pavement Line Marking and Message
 - Shotcrete
 - Hydraulic Cement Concrete Repairs
 - Patching Asphalt Pavement
 - Repairing Asphalt Concrete Pavement Cracks
 - Overhead Sign Structure Lighting Retrofit
 - Miscellaneous Bridge Coatings

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- Minor / Remaining Work Items (2 of 2): :
 - Slope Stabilization
 - Ground-Mounted Sign Structure Repair

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- Railroad Coordination (1 of 2):
 - Depending on the contractors means and methods Railroad Approval and Railroad Flagger may be required
 - Liquidated damages
 - RMTA reserves the right to charge liquidated damages if the contractor fails to meet the submittal schedule
 - Railway Coordination Service
 - Submittal of means and methods, drawings to the satisfaction of RMTA and CSX/NS Corporation.
 - All submittals are made to RMTA and the Engineer
 - RMTA will submit directly to CSX.
 - RMTA will pay for CSX flagger fees.
 - Contractor Responsible for NS Corporation flagger fees.

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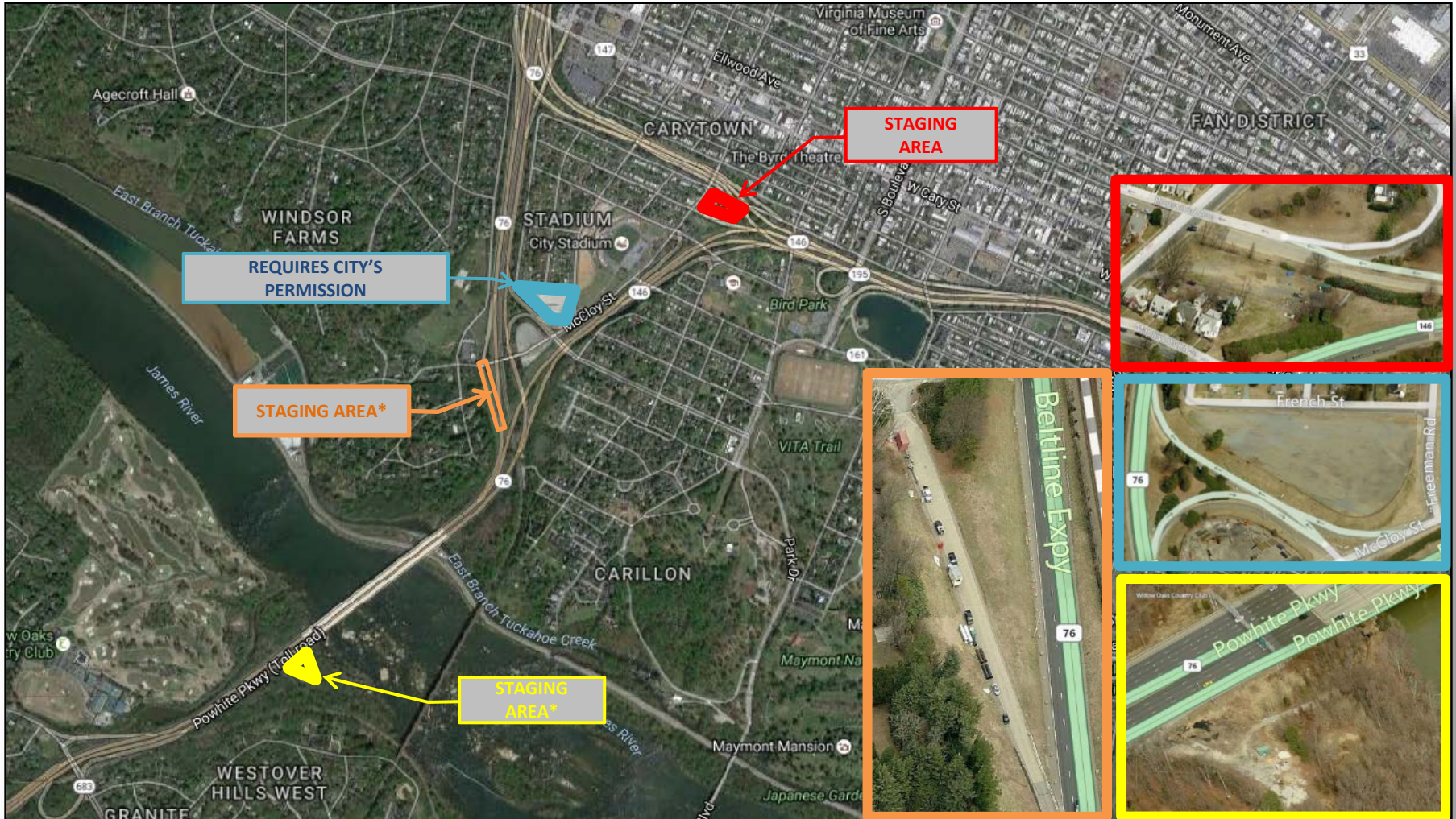
- Railroad Coordination Continued (2 of 2):
 - CSX Transportation
 - Bridge 8S Piers 14 & 15 Deck Leveling
 - Bridge 64 Units 2 & 9 Steel
 - Bridge 65 Unit 13 Steel
 - Bridge 66 Pier 22 Steel
 - Bridge 67 Units 7, 22 & Pier 10E Steel
 - Bridge 68 Pier 1 Coatings
 - NS Corporation
 - Bridge 65 Piers 9-10 Coatings
 - Bridge 68 Pier 4 Coatings

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- Point of Contact or Responsible Forman:
 - Must always be on-site during construction.
 - Shall be there, day and night during construction or lane closures
 - Stay in close contact with Engineer/Inspector
 - Any changes in personnel, must be clearly communicated to RMTA and the Engineer

MR-2021 Staging Areas





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- Questions due by June 17th, 1:00 PM
- **Bid's Due – 10:00 AM on July 1, 2021**
- Contract Dates:
 - Begin: July 2021
 - End: July 1, 2022
 - Shotcrete: November 22, 2021
- Submit Questions to:
 - Matt Foster, P.E. at: mfooster@hntb.com
 - Theresa Simmons, P.E. at:
Theresa.Simmons@rmtaonline.org
(RMTA Director of Operations)

MR-2021



Questions?