Bike Infrastructure / Roadway Conversion Project
Forest Hill Avenue Bike Lanes
Dorchester Road To 41st Street
CITY PROJECT NO. , AWARD NO.

NOTES:
1. ALL WORK IS WITHIN THE EXISTING RIGHT OF WAY.
2. DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND
CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY
BY THE CITY OF RICHMOND.
3. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2016
VIRGINIA ROAD AND BRIDGE SPECIFICATIONS, 2016 VDOT ROAD AND BRIDGE
STANDARDS, 2009 FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
(MUTCD), 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK
AREA PROTECTION MANUAL, APPLICABLE CITY OF RICHMOND STANDARDS AND
SPECIFICATIONS, AND AS AMENDED BY CONTRACT PROVISIONS AND THE
COMPLETE ELECTRONIC VERSION OF THE PLAN ASSEMBLY.
4. PROJECT BASE MAPPING WAS PROVIDED BY THE CITY OF RICHMOND GEO-
ENGINEERING AND WAS NOT FIELD SURVEYED TO VERIFY ACCURACY. CONTRACTOR
SHALL FIELD VERIFY WIDTHS PRIOR TO INSTALLATION OF PROPOSED
PAVEMENT MARKINGS.

LOCATION MAP
NTS
August 2020
GENERAL NOTES

1. The Contractor shall be responsible for ensuring that all utilities within the project limits are identified and located before beginning work. The Contractor shall contact Miss Utility of Virginia at 1-800-522-7001, 48 hours prior to any construction activities. The Contractor shall be responsible for identifying and marking all existing utilities known to the Contractor. The Contractor shall locate all utilities nearest their location for the work to be performed. The Contractor shall maintain a record of all utilities identified by the Contractor and as identified by others. The Contractor shall notify the Engineer immediately if site conditions shown differ from those shown in the plans.

2. All work shall be in accordance with the current edition of the Manual of Uniform Traffic Control Devices (MUTCD). The Virginia Supplement to the MUTCD, and all City of Richmond special provisions, and specifications in effect at the time the plans are approved.

3. Any pavement markings that will conflict with the proposed pavement markings shall be completely eradicated.

4. The Contractor shall be responsible for job site security and safety. Construction activities shall be in accordance with OSHA and local requirements.

5. Work shall remain within the existing right of way and shall conform to the City of Richmond Standards and all City of Richmond special provisions, and specifications in effect at the time the plans are approved.

6. Contractor shall make necessary construction notices in writing and for and obtain all necessary permits and post any bonds associated with the work indicated on these plans. Contractor shall not close or abandon any existing curbs, sidewalks, or roadways without the appropriate permit from the City.

7. Contractor shall dispose of demolition debris and salvage materials in accordance with applicable federal, state, and local regulations, statutes, and ordinances.

8. Areas outside the limits of the proposed work, which are disturbed by the Contractor's activities, shall be restored back to their original condition by the contractor at the contractor's expense.

9. This project is not subject to The City of Richmond stormwater management permit (RWSM), as land disturbance is less than 2000 SF.

10. Contractor shall issue work to minimize time between the removal of the existing pavement markings and traffic control devices and the installation of the proposed pavement markings and traffic control devices.

11. Contractor shall seal all asphalt and repair surface as necessary, along bike lanes where minor cracks or joints impair normal bicycle flow. Larger surface repairs or lane disturbance activities, if required, shall be performed under a separate contract. Notify city engineer of surface conditions where major pavement repairs may be required.

12. Prior to completing pavement marking operations the contractor shall inspect the existing side street stop bars to ensure they are complete and visible. If an existing side street stop bar shows signs of excessive wear or are missing portions of the complete marking, the stop bar shall be replaced in its entirety.

13. All utility poles and signal posts are to remain along the project corridor and shall be protected during construction. If post-mounted signs are shown to be removed or replaced with a new pole, same shall be taken to protect the pole during sign removals and installations.

LAYOUT AND MATERIALS

1. Dimensions are from the face of curb and to the centerline of pavement markings, unless otherwise noted.

2. Proposed bounds and any existing property line monumentation disturbed during construction shall be set or reset by a professional licensed surveyor.

3. When necessary, existing sidewalk shall be saw cut leaving a smooth squared opening for the installation of proposed sign structures. Upon completion of sign structures installation, the existing sidewalks shall be patch/repaired with a minimum of 900 psi concrete. No additional sidewalk or curb work is anticipated with this project, however any incidental concrete for repair or alteration, including automated conversion of this document shall be at the user's sole risk and it is not intended to provide all necessary details related to maintenance of traffic.

4. The vertical flexible delineators shown on these plans shall be the PEMCO FG100 MODEL, or equivalent if approved as such. The proposed vertical flexible delineators shall be approved by the City of Richmond project manager prior to ordering materials.

EXISTING CONDITIONS INFORMATION

1. PROJECT BACKGROUND/BASE PLAN: The property lines and any other existing conditions and features shown are based on information compiled from the City of Richmond O&A, other survey work, and published plans and specifications. The City of Richmond O&A, published plans, and specifications shall be considered the final source of information, and the Contractor shall verify the Engineer's location site conditions shown differ from those shown on these plans.

2. All work shall be in accordance with the current edition of the Manual of Uniform Traffic Control Devices (MUTCD). The Virginia Supplement to the MUTCD, and all City of Richmond special provisions, and specifications in effect at the time these plans were approved.

3. Construction warning signs shall be placed in the advanced warning area and "End Road Work" signs shall be placed at the end of the project area in accordance with the VA WAPM. Contractor shall provide all necessary signs and sign stands or posts, which shall be capable of unrestricted view of the sign message for all project warning and regulatory signs during construction.

4. Construction is allowed Monday through Saturday during the construction period. The contractor shall coordinate with the utility companies for the work indicated on the drawings. The contractor shall coordinate work with applicable Federal, State, and Local regulations, statutes, and ordnances.

5. No temporary lane closures, restrictions, or flagging operations are permitted along any project corridor between the hours of 5:00AM and 9:00AM and the hours of 3:30PM and 6:00PM Monday through Friday, or as directed by the project engineer.

6. Contractor shall submit a Maintenance of Traffic Plan to the City Traffic Engineer for review and approval, a minimum of two weeks in advance of the beginning of construction.

7. Contractor shall maintain safe access to all existing driveways and maintain pedestrian access along the project corridor at all times.

8. Any work activities within 15 feet of the travel way shall be signed accordingly under no circumstance shall work be performed concurrently on both the left and right side of any travel lane.

9. Any temporary traffic control measures will be allowed to be placed within the right of way prior to the start of construction.

10. Any flaggers used during construction shall be state certified. Certification shall be available on site at all times.

11. Signing, marking, and all other traffic control measures may be changed if expedited during the course of the project when deemed necessary by the City of Richmond. Contractor shall coordinate with the City with the general plans to ensure safety and order flow of traffic.

12. Any disruption of any utility service is the sole responsibility of the Contractor.

13. Contractor shall coordinate with the City of Richmond for review and approval, a minimum of two weeks in advance of the beginning of construction.

14. No temporary lane closures, restrictions or flagging operations are permitted along any project corridor between the hours of 5:00AM and 9:00AM and the hours of 3:30PM and 6:00PM Monday through Friday, or as directed by the project engineer.

15. Lane closure will not be permitted on holidays or on the day before or the day after a holiday unless otherwise directed by the City of Richmond Transportation Engineer.

16. Contractor shall maintain safe access to all existing driveways and maintain pedestrian access along the project corridor at all times.

17. Any work activities within 15 feet of the travel way shall be signed accordingly under no circumstance shall work be performed concurrently on both the left and right side of any travel lane.

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21. Failure to provide temporary traffic control devices in accordance with the VA WAPM shall result in immediate corrective measures by the contractor at no additional cost to the city. All traffic devices and temporary signs shall be clean, legible and in fully functional condition.

22. Contractor shall not rely solely on electronic versions of the plans, specifications, and data files that are obtained from the designer, but shall verify location of project features in accordance with the paper copies of the plans and specifications that are supplied as part of the contract documents.

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24. Symbol and legends of project features are graphic representations and are not necessarily located to their actual dimension or exact locations on the drawings. The contractor shall note the manufacturer's literature, shop drawings and field measurements of the supplied products for layout and installation of the project features.

MAINTENANCE OF TRAFFIC

The purpose of these notes is to describe general traffic operations during construction and it is not intended to provide all necessary details related to maintenance of traffic.

1. All maintenance of traffic operations and materials shall meet the requirements of the Virginia Work Area Protection Manual (VA WAPM), the 2009 MUTCD and any revisions to these documents at the time these plans were approved.

2. Construction warning signs shall be placed in the advanced warning area and "End Road Work" signs shall be placed at the end of the project area in accordance with the VA WAPM. Contractor shall provide all necessary signs and sign stands or posts, which shall be capable of unrestricted view of the sign message for all project warning and regulatory signs during construction.

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### SIGN SCHEDULE

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<tr>
<th>SIGN ASSEMBLY NO.</th>
<th>TEXT</th>
<th>PANEL SIZE</th>
<th>QTY.</th>
<th>SIGN ASSEMBLY COMPONENTS</th>
<th>SIGN PANEL AREA (S.F.)</th>
<th>REMARKS</th>
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### NOTES

1. All signs shall be oriented as shown on the plans.
2. Sign color combinations shall be in accordance with the FHWA standard highway signs book and the Virginia standard highway signs book as noted in the plans.
3. All structures to be single post unless otherwise noted.
## Proposed Sign Schedule

### SIGN SCHEDULE

| SIGN ASSEMBLY NO. | DATA | PANEL SIZE | QTY. | COMP. | SIGN ASSEMBLY NO. | DATA | PANEL SIZE | QTY. | COMP. | SIGN ASSEMBLY NO. | DATA | PANEL SIZE | QTY. | COMP. | SIGN ASSEMBLY NO. | DATA | PANEL SIZE | QTY. | COMP. | SIGN ASSEMBLY NO. | DATA | PANEL SIZE | QTY. | COMP. |
|-------------------|------|------------|------|-------|-------------------|------|------------|------|-------|-------------------|------|------------|------|-------|-------------------|------|------------|------|-------|-------------------|------|------------|------|-------|-------------------|------|------------|------|-------|
| U3                | [Diagram] | 40 x 60 | 40 | 60 | U2                | [Diagram] | 40 x 60 | 40 | 60 | U2                | [Diagram] | 40 x 60 | 40 | 60 |
| U1                | [Diagram] | 40 x 60 | 40 | 60 | U1                | [Diagram] | 40 x 60 | 40 | 60 | U1                | [Diagram] | 40 x 60 | 40 | 60 |

### NOTES:

1. ALL SIGNS SHALL BE ORIENTED AS SHOWN ON THE PLANS.
2. SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK AND THE VIRGINIA STANDARD HIGHWAY SIGNS BOOK OR AS NOTED IN THE PLANS.
3. ALL SIGN BOARD STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.

### REMARKS:

-awan merge left
- Bike lane ends
- Reduced speed ahead
- EXIST.
- Exisiting mount to existing utility pole
- Exisiting mount to existing sign post
**Surface Mount Per Manufacturer's Recommendations**

3" wide safe-hit post.

Reflective wrap (typ.)

Bike travel lane

Vehicular travel lane

Vehicular travel lane

Buffer

Flexible delineator to match buffer color.

Existing curb

**Notes:**

1. Section is typical and may not represent actual field dimensions. Adjust as needed to match pavement width. All bike lanes shall be 5' minimum.

2. Post and reflective wrap to be same color. Match white installed in bus stop areas.

3. Unless otherwise noted, posts to be installed 30' on center in areas indicated on plans. Posts shall not be installed in bus stop areas.

**Plan View - Proposed**

3'

5'

2'

15' (typ)

804.343.7100

Richmond, VA 23219

Suite 200

115 South 15th Street

$ DGN $ $ DGN LEV $
NOTES:

1. WHITE THERMOPLASTIC SHARED LANE MARKING.

2. WHITE PAINT LINE adjacently painted crosswalk.

3. ALL LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.

4. LONGITUDINAL LINES TO BE PARALLEL TO CURBLINE.

5. TRANSVERSE MARKINGS FOR SEPARATION OR GUIDANCE.

6. PORTION OF LANE TO BE IDENTIFIED BY ADJACENT PAINTED LINES ON CURBLINE.

7. FLEXIBLE DELINEATOR TO MATCH BUFFER COLOR.

8. SEE CROSSBIKE DETAIL FOR ADDITIONAL INFORMATION.

9. SEE PLAN 5' BIKE LANE WIDTH VARIES

10. VEHICULAR DRIVEWAY 6" MIN.

11. VEHICULAR T ARVEL LANE 90°

12. BIKE TRAVEL LANE 135°

13. VEHICLE SYMBOL PER MUTCD STANDARDS

14. HELMETED BICYCLIST SYMBOL PER MUTCD STANDARDS

15. THERMOPLASTIC WHITE PREFORMED THERMOPLASTIC WHITE PREFORMED

PROJECT SHEET NO.

Roadway Conversion Project
Bike Infrastructure / Richmond, Virginia
90% Construction Plan

Details
EXISTING PAVEMENT MARKINGS LEGEND

- EXISTING, 24" WHITE STOPBAR
- EXISTING, DOUBLE SOLID YELLOW LINE
- EXISTING, 6" SOLID WHITE
- EXISTING, 4' SOLID WHITE DIAGONAL CROSS HATCH
- EXISTING, 2' SOLID WHITE Diagonal, 10' Long, 30' Space
- EXISTING, 24" SOLID WHITE BIKE LANE MARKING
- EXISTING, 4" SOLID WHITE, 10' LONG, 30' SPACE
- EXISTING, 4" SOLID WHITE, 2' LONG, 4' SPACE
- EXISTING, 4" SOLID WHITE, 1' LONG, 6' SPACE
- EXISTING, 6" SOLID WHITE
- EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (LEFT)
- EXISTING, PAVEMENT MARKING ELONGATED ARROW, DOUBLE (THRU)
- EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (RIGHT)
- EXISTING, PAVEMENT MARKING ELONGATED ARROW, DOUBLE (THRU)
- EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (RIGHT)
- EXISTING, 4" SOLID WHITE
- EXISTING, 4" SOLID WHITE
EXISTING PAVEMENT MARKINGS LEGEND

1. EXISTING, 4" SOLID WHITE
2. EXISTING, 4" SOLID WHITE, 10' LONG, 30' SPACE
3. EXISTING, 4" SOLID WHITE, 2' LONG, 4' SPACE
4. EXISTING, 6" SOLID WHITE
5. EXISTING, PAVEMENT MARKING BIKE LANE
6. EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (RIGHT)
7. EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (LEFT)
8. EXISTING, PAVEMENT MARKING ELONGATED ARROW, DOUBLE (RIGHT/THRU)
9. EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (LEFT)
10. EXISTING, 24" WHITE BIKE LANE MARKING
11. EXISTING, 24" WHITE CROSSWALK MARKING
12. EXISTING, 24" WHITE DIAGONAL CROSS HATCH
13. EXISTING, 4" SOLID WHITE, 24" WHITE STOPBAR
14. EXISTING, 4" SOLID WHITE, 4" SOLID YELLOW
15. EXISTING, PAVEMENT MARKING ELONGATED ARROW, DOUBLE (LEFT)
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EXISTING PAVEMENT MARKINGS LEGEND

- EXISTING, 24" WHITE STRIPED
- EXISTING, 24" WHITE CENTERLINE MARKING
- EXISTING, 4" DOUBLE YELLOW LINE
- EXISTING, 4" SOLID YELLOW
- EXISTING, 4" SOLID WHITE
- EXISTING, 24" WHITE DIAGONAL CROSS HATCH
- EXISTING, 24" WHITE LONG MARKING
- EXISTING, 4" SOLID WHITE, 12" LONG, 30' SPACE
- EXISTING, 4" SOLID WHITE, 2" LONG, 4' SPACED
- EXISTING, 24" WHITE CROSSWALK MARKING
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- EXISTING, 24" WHITE CENTERLINE MARKING
- EXISTING, 24" WHITE CENTERLINE MARKING
Project Sheet No. 0

Scale 20' 40'

MON.-FRI. 4 PM-6 PM 7 AM-9 AM

TRANSIT SYSTEM PARKING STOP # 1366 ridegrtc.com 358-GRTC (4782)

Transit System

One Way

Do Not Enter

Speed Limit 25

 Ahead Left Lane Must Turn Left

Speed Limit 35

Right Lane Must Turn Right

School Flashing

Yield Vehicles to Turning Vehicles

Issued for Checked by Designed by

25' 10'

11'

5'

3'

25'

100'

75'

150'

FOREST HILL AVE

JAHNE RD

Bike Infrastructure / Roadway Conversion Project
Forest Hill Avenue
Richmond, Virginia

90% Construction Plan
August 2020

Proposed Conditions