ACCELERATED BIKE LANES

1. The project consists of bicycle and pedestrian safety and accessibility improvements in the existing roadway cross sections of Allen Avenue from 1st Street to Colorado Avenue within the City of Richmond. The project includes the following:
   a. Widening of 12" of existing curb (except between 1st Street and 3rd Street) for a new dedicated bicycle lane.
   b. Replacement of existing road signals with new bicycle signals.
   c. Application of pavement markings and signs.
   d. Replacement of existing signs.

2. The contractor shall perform all work and construct and install all items within the City of Richmond prior to construction.

3. The contractor shall notify the City Project Manager and the Roadway Engineer prior to the beginning of construction.

4. The contractor shall notify the City Project Manager if any disturbance is created to the existing utilities or road surface prior to starting construction.

5. The contractor shall remove completely all previous or existing pavement markings or signs, which in the opinion of the City of Richmond, are not visible.

6. The contractor shall provide the names and phone numbers to the City Project Manager of persons designated by the contractor to provide and maintain temporary traffic control in accordance with the approved traffic control plan.

7. The contractor shall submit a proposed traffic control plan for approval by the City's Project Manager prior to beginning construction. Whichever is more restrictive takes precedence.

8. All temporary traffic control, devices, methods, and applications shall comply with the most recent versions of the American Association of State Highway and Transportation Officials (AASHTO), the Virginia Department of Transportation (VIRGINIA DOT), and the Virginia Western Association of Professional Motorcycling (VWAPM), the Texas Transportation Institute Traffic Control Manual (TTI), and the Virginia Statewide Standard Highway Signs and Pavement Markings (VHSSPM) except as directed by the project manager.

9. The contractor shall be responsible for protecting existing underground utilities, and shall replace at no cost to the City prior to application.

10. The contractor shall field check and locate all pavement markings to the satisfaction of the project manager.

11. General notes and legend:
   a. Construction shall be coordinated with U-Channel Posts installed directly in the ground (2' maximum depth - contractor is to verify location and utility conflicts).
   b. Sign bike lanes shall be not less than 20' from an alley or driveway where there is an adjacent parking area.
   c. Parking areas shall be no closer than 20' from an alley or driveway where there is an adjacent parking area.
   d. Parking areas shall be no closer than 30' from a marked crosswalk, curb ramp, or curb return where there is an adjacent parking area.
   e. Bike lanes shall be reduced to the width of an adjacent travel lane.
   f. The buffer area pavement markings shall not extend into intersections, alleys, or driveways.
   g. Any deviations from the approved plans and/or standards and specifications must be approved by the City of Richmond.
   h. Breakage/conflict contact:
      1. Construction shall be coordinated with U-Channel Posts installed directly in the ground (2' maximum depth - contractor is to verify location and utility conflicts).
      2. Sign bike lanes shall be not less than 20' from an alley or driveway where there is an adjacent parking area.
      3. Parking areas shall be no closer than 20' from an alley or driveway where there is an adjacent parking area.
      4. Parking areas shall be no closer than 30' from a marked crosswalk, curb ramp, or curb return where there is an adjacent parking area.
      5. Buffer area pavement markings shall not extend into intersections, alleys, or driveways.
      6. Any deviations from the approved plans and/or standards and specifications must be approved by the City of Richmond.
PAVEMENT MARKING NOTES
1. INSTALL VDOT ST'D. STP-1 SIGN POST.
2. INSTALL PROPOSED SIGN ON EXISTING SIGN POST.
3. INSTALL PROPOSED SIGN ON EXISTING UTILITY POLE OR SIGNAL POLE.
4. INSTALL FLEXI-POST (40' SPACING TYP.).
5. INSTALL CORNER CLEARANCE MARKING PER TYPICAL DETAIL SHEET 3.
6. INSTALL DOUBLE YELLOW TYPE B CLASS I PAVEMENT MARKING.
7. INSTALL DOUBLE WHITE TYPE B CLASS I PAVEMENT MARKING.
8. INSTALL 30' LONG, 2' SPACING.
9. INSTALL 45° ANGLE WITH LONGITUDINAL LINES THEY INTERSECT.
10. INSTALL 45° ANGLE WITH LONGITUDINAL LINES THEY INTERSECT.
11. INSTALL 30' SPACING.
12. INSTALL 2' LONG, 4' SPACING.
13. INSTALL 6' LONG, 4' SPACING.
14. INSTALL LONGITUDINAL CROSSWALK MARKING.
15. INSTALL TRANSVERSE CROSSWALK MARKING.
16. INSTALL BICYCLE CROSSWALK MARKING.
17. INSTALL 24" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
18. INSTALL 12" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
19. INSTALL 2" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
20. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
21. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
22. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
23. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
24. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
25. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
26. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
EXCEPT BIKES

© ACCELERATED BIKE LANES

ALLEN AVENUE

INSTALL TYPE B CLASS II WHITE HELMETED BICYCLIST SYMBOL PAVEMENT MARKING
PER TYPICAL DETAIL SHEET 3.

INSTALL TYPE B CLASS II WHITE SHARROW PAVEMENT MARKING PER TYPICAL DETAIL SHEET 3.

INSTALL TYPE B CLASS II WHITE SHARROW PAVEMENT MARKING PER TYPICAL DETAIL SHEET 3.

INSTALL 4" DOUBLE YELLOW TYPE B CLASS I PAVEMENT MARKING.

INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.

INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.

INSTALL 24" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.

INSTALL LONGITUDINAL CROSSWALK MARKING PER DETAIL SHEET 3.

INSTALL TRANSVERSE CROSSWALK MARKING PER DETAIL SHEET 3.

INSTALL BICYCLE CROSSWALK MARKING PER DETAIL SHEET 3.

INSTALL LONGITUDINAL, CROSSWALK MARKING PER DETAIL SHEET 3.

INSTALL TRANSVERSE, CROSSWALK MARKING PER DETAIL SHEET 3.

INSTALL BICYCLE CROSSWALK MARKING.

INSTALL TYPE B CLASS II WHITE HELMETED BICYCLIST SYMBOL PAVEMENT MARKING.

INSTALL VDOT ST'D. STP-1 SIGN POST.

INSTALL PROPOSED SIGN ON EXISTING SIGN POST.

INSTALL PROPOSED SIGN ON EXISTING UTILITY POLE OR SIGNAL POLE.

REMOVE EXISTING SIGN.

INSTALL FLEXI-POST (40' SPACING TYP.).

CONSTRUCTION NOTES

INSTALL CORNER CLEARANCE MARKING PER TYPICAL DETAIL SHEET 3.

INSTALL PROPOSED CORNER CLEARANCE MARKING WITH EXISTING PARKING SIGN.

FULLY ERADICATE EXISTING PAVEMENT MARKINGS.

INSTALL TWO-STAGE LEFT TURN BOX MARKING PER TYPICAL DETAIL SHEET 3.

INSTALL GREEN TYPE B CLASS I PAVEMENT MARKING.

INSTALL SCHOOL MARKING PER TYPICAL DETAIL SHEET 4.

INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING ON 45° ANGLE WITH LONGITUDINAL LINES THEY INTERSECT.

INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 10' LONG, 30' SPACING.

INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 2' LONG, 4' SPACING.

INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 2' LONG, 4' SPACING.

INSTALL 12" YIELD LINE MARKINGS.

INSTALL ARROW MARKING PER TYPICAL DETAIL SHEET 4.

MATCHLINE SHEET 6

MATCHLINE SHEET 8

TYPICAL SECTIONS

Not to Scale

ACCELERATED BIKE LANES

ALLEN AVENUE

PARK AVENUE TO GRAYLAND AVENUE
PAVEMENT MARKING NOTES

1. INSTALL TYPE B CLASS II WHITE HELMETED BICYCLIST SYMBOL PAVEMENT MARKING PER TYPICAL DETAIL SHEET 3.
2. INSTALL TYPE B CLASS II WHITE SHARROW PAVEMENT MARKING PER TYPICAL DETAIL SHEET 3.
3. INSTALL DOUBLE YELLOW TYPE B CLASS I PAVEMENT MARKING.
4. INSTALL SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
5. INSTALL 2" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
6. INSTALL 4" DOUBLE YELLOW TYPE B CLASS I PAVEMENT MARKING.
7. INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
8. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
9. INSTALL 12" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
10. INSTALL 24" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.
11. INSTALL LONGITUDINAL CROSSWALK MARKING PER DETAIL SHEET 3.
12. INSTALL TRANSVERSE CROSSWALK MARKING PER DETAIL SHEET 3.
13. INSTALL BICYCLE CROSSWALK MARKING PER DETAIL SHEET 3.
14. INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING ON 45° ANGLE WITH LONGITUDINAL LINES THEY INTERSECT.
15. INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 10' LONG, 30' SPACING.
16. INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 2' LONG, 4' SPACING.
17. INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 2' LONG, 4' SPACING.
18. INSTALL 12" YIELD LINE MARKINGS.

PAVEMENT MARKING NOTES

INSTALL PROPOSED SIGN AS SHOWN.
INSTALL VDOT ST'D. STP-1 SIGN POST.
INSTALL PROPOSED SIGN ON EXISTING SIGN POST.
INSTALL PROPOSED SIGN ON EXISTING UTILITY POLE OR SIGNAL POLE.
REMOVE EXISTING SIGN.
INSTALL FLEXI-POST (40' SPACING TYP.).
RELOCATE EXISTING SIGN.

CONSTRUCTION NOTES

INSTALL CORNER CLEARANCE MARKING PER TYPICAL DETAIL SHEET 3.
ALIGN PROPOSED CORNER CLEARANCE MARKING WITH EXISTING PARKING SIGNAL.
FULLY ERODE CENTER CREST PAVEMENT MARKING.
INSTALL TWO STAGE LEFT TURN BOX MARKING PER TYPICAL DETAIL SHEET 3.
INSTALL GREEN TYPE B CLASS I PAVEMENT MARKING.
INSTALL SCHOOL MARKING PER TYPICAL DETAIL SHEET 4.
INSTALL 24" YIELD LINE MARKINGS.
INSTALL ARROW MARKING PER TYPICAL DETAIL SHEET 4.

TYPICAL SECTIONS
Not to Scale

GRAYLAND AVENUE TO IDLEWOOD AVENUE
INSTALL CORNER CLEARANCE MARKING PER TYPICAL DETAIL SHEET 3.
INSTALL PROPOSED CORNER CLEARANCE MARKING WITH EXISTING PARKING SIGNAL.
FULLY ERODE CENTER CREST PAVEMENT MARKING.
INSTALL TWO STAGE LEFT TURN BOX MARKING PER TYPICAL DETAIL SHEET 3.
INSTALL GREEN TYPE B CLASS I PAVEMENT MARKING.
INSTALL SCHOOL MARKING PER TYPICAL DETAIL SHEET 4.
INSTALL 24" YIELD LINE MARKINGS.
INSTALL ARROW MARKING PER TYPICAL DETAIL SHEET 4.

CONSTRUCTION NOTES

INSTALL PROPOSED SIGN AS SHOWN.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE OR SIGNAL POLE.
REMOVE EXISTING SIGNAL.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
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INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
INSTALL MOUNTING BASE ON CURB AND REMOVE EXISTING DECK.
INSTALL 8' 8" X 6" TYPE B CLASS II SIGNS ON EXISTING UTILITY POLE.
REMOVE EXISTING DECK.
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