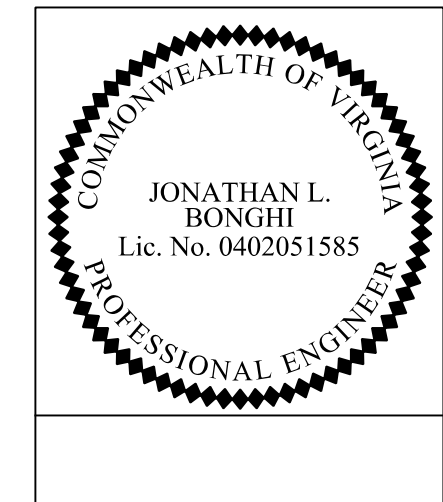


CITY OF RICHMOND, VIRGINIA

DEPARTMENT OF PUBLIC WORKS

TRANSPORTATION ENGINEERING DIVISION



Bike Infrastructure / Roadway Conversion Project

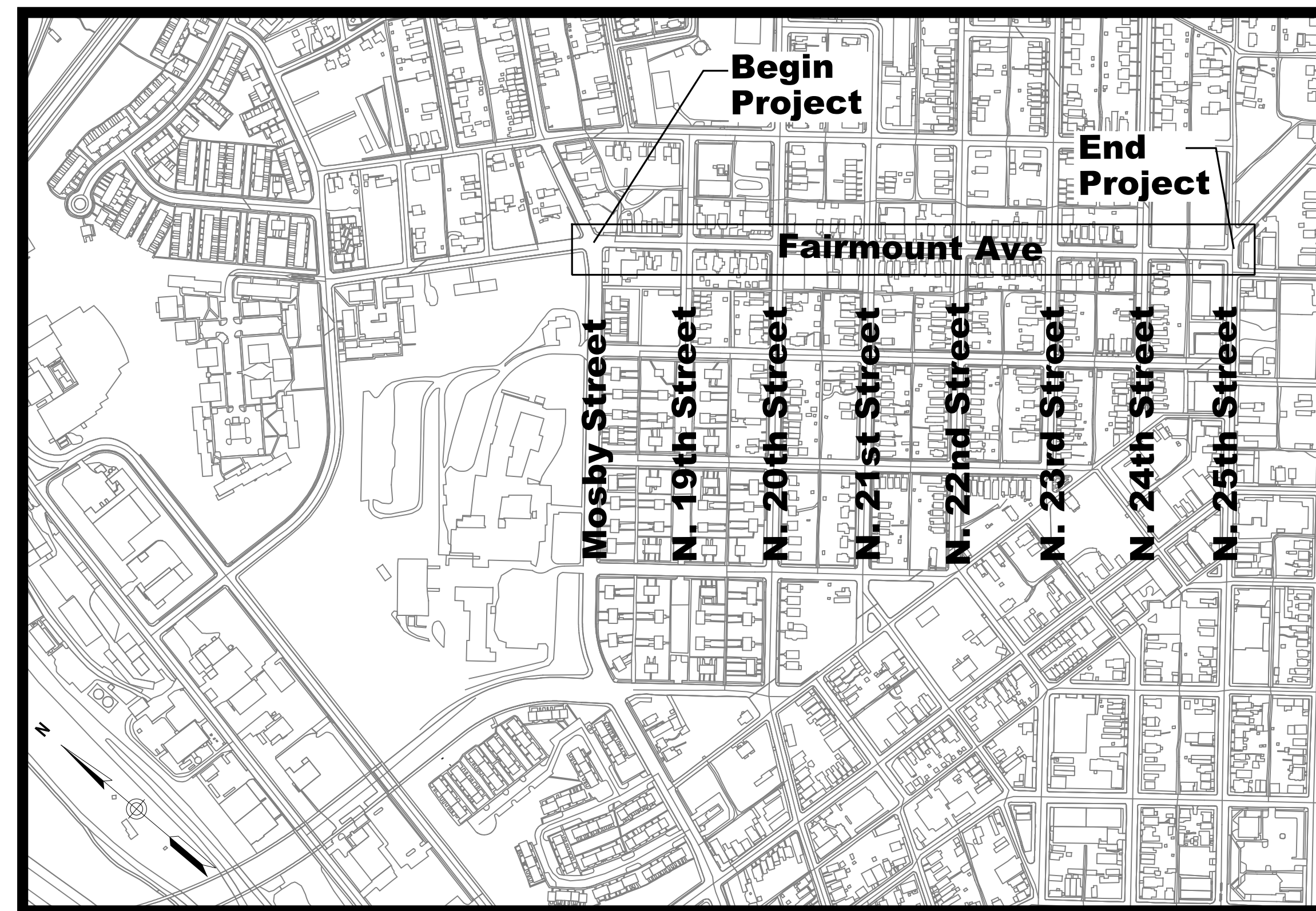
Fairmount Avenue Bike Lanes

Mosby Street To N 25th Street

CITY PROJECT NO. , AWARD NO.

INDEX OF SHEETS	
Sheet Title	Sheet No.
TITLE SHEET & INDEX OF SHEETS	1
GENERAL NOTES	1A
PROPOSED SIGN SCHEDULE	1B
DETAILS	1C
EXISTING CONDITIONS PLAN	2-4
PROPOSED SIGNAGE AND STRIPING PLAN	5-7

- NOTES:
- ALL WORK IS WITHIN THE EXISTING RIGHT OF WAY.
 - 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.
 - THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2016 VDOT 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.
 - PROJECT BASE MAPPING WAS OBTAINED FROM THE CITY OF RICHMOND GIS WEBSITE AND WAS NOT FIELD SURVEYED TO VERIFY ACCURACY. CONTRACTOR SHALL FIELD VERIFY WIDTHS PRIOR TO INSTALLATION OF PROPOSED PAVEMENT MARKINGS.



CITY OF RICHMOND
DEPT. OF PUBLIC WORKS
RICHMOND, VA

LOCATION MAP
NTS
August 2020

CITY OF RICHMOND APPROVED FOR CONSTRUCTION	
DATE	SURVEYS SUPERINTENDENT
DATE	PROJECT MANAGER
DATE	MAINTENANCE ENGINEER
DATE	CITY TRANSPORTATION ENGINEER
DATE	CAPITAL PROJECTS ADMINISTRATOR
DATE	CITY ENGINEER
DATE	DIRECTOR OF PUBLIC WORKS

REVISIONS		
NO.	DATE	COMMENTS

Drawing No.



115 South 15th Street
Suite 200
Richmond, VA 23219
804.343.7100

vhb.com

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. Contractor shall coordinate with utility companies as to the location of existing and approved plans of future utility lines. Any disruption of any utility service is the solely the responsibility of the Contractor.
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 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.
6. Contractor shall make necessary construction notifications and apply for and obtain all necessary permits and post any bonds associated with the work indicated on these plans. Contractor shall not close or obstruct any existing roadways, sidewalks, or fire hydrants without obtaining 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 (RSMP), as land disturbance is less than 2500 SF.
10. Contractor shall phase 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 impede normal bicycle flow. Larger surface repairs or land 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 is missing portions of the complete marking, the stop bar shall be replaced in its entirety.
13. All utility poles and signal poles are to remain along the project corridor and shall be protected during construction. If pole-mounted signs are shown to be removed or replaced with a new sign panel, care 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 structure installation, the existing sidewalk shall be patched/repared with a minimum of 3000 psi concrete. No additional concrete repair is anticipated with this project, however any incidental concrete for repair or replacement of existing conditions shall be a minimum of 3000 psi.
4. The vertical flexible delineators shown on these plans shall be the PEXCO FG300 MODEL UR or equivalent if approved as equal. 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 GIS and aerial photography. The information shown is not warranted to be exact or complete. Field verifications of pavement widths, existing pavement markings, and sign locations were performed by VHB in May of 2020. Contractor shall notify the Engineer immediately if site conditions shown differ from those shown on these plans.

MAINTENANCE OF TRAFFIC

The purpose of these notes are 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 current edition 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 allow for an unrestricted view of the sign message for all project warning and regulatory signs during construction.
3. Construction is allowed Monday through Saturday during the contract period. No lane restrictions or closures will be allowed on Sundays unless directed by the City of Richmond Transportation Engineer.
4. No temporary lane closures, restrictions or flagging operations are permitted along any project roadway between the hours of 6:00AM and 9:00AM and the hours of 3:30PM and 6:00PM Monday through Friday, or as directed by the project engineer.
5. Lane closures 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.
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. No 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 other traffic control measures may be changed or adjusted during the course of the project when deemed necessary by the City in the best interest of the general public and to ensure the safe and orderly flow of traffic.
12. 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.

CITY OF RICHMOND DPW - (WORK WITHIN ROW)

1. All work in the streets and sidewalks shall be performed under an approved permit and monitored by the permit inspector assigned to the project.
2. Work shall not commence until the permit inspector has been notified, a pre-construction conference is held and Miss Utility has cleared the project.
3. Any disturbed sidewalk or curb within the project limits shall be repaired and replaced in accordance with the City of Richmond Standards and as shown in these plans.

DOCUMENT USE

1. These plans and corresponding CADD documents are instruments of professional service and shall not be used, in whole or in part, for any purpose other than for which it was created without the expressed, written consent of VHB. Any unauthorized use, reuse, modification or alteration, including automated conversion of this document shall be at the user's sole risk without liability or legal exposure to VHB.
2. 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.
3. Symbols and legends of project features are graphic representations and are not necessarily scaled to their actual dimensions or exact locations on the drawings. The contractor shall refer to the detail sheet dimensions, the manufacturer's literature, shop drawings and field measurements of the supplied products for layout and installation of the project features.



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Bike Infrastructure / Roadway Conversion Project
Fairmount Avenue
Richmond, Virginia

No.	Revision	Date	Apprv.
Designed by	RSS	Checked by	JLB
Issued for	90% Construction Plan	Date	August 2020

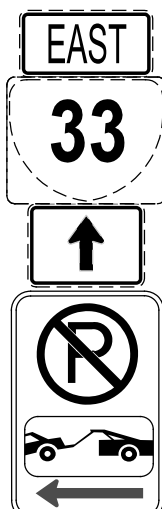
Drawing Title
General Notes

PROJECT	SHEET NO.
34965/2	1A

SIGN SCHEDULE

SIGN ASSEMBLY NO(s).	TEXT	MUTCD ST'D.	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (S.F.)		SIGN STRUCTURE ST'D.	REMARKS
			PANEL SIZE		QTY.	per Sign	per Assembly		
			W	H					
101		M4-14 R3-17 R7-3R (MOD)	24" 24" 12"	12" 18" 18"	1 1 1	2.0 3.0 1.5	6.5	STP-1, 2" - 14 GA	FOUNDATION - TYPE D
102, 104, 108, 109, 111, 113, 116, 118, 119, 127, 129		R7-3L (MOD)	12"	18"	10	1.5	1.5	STP-1, 2" - 14 GA	FOUNDATION - TYPE D
103, 105, 107, 110, 112, 117, 120, 122, 128		R7-3R (MOD)	12"	18"	9	1.5	1.5	STP-1, 2" - 14 GA	FOUNDATION - TYPE D
106, 115, 123	 	R4-11 R7-3 (MOD)	30" EXIST.	30" EXIST.	3 3	6.25 1.5	7.75	Existing	MOUNT TO EXISTING UTILITY POLE
114	 	SIGN R7-3R (MOD)	EXIST. 12"	EXIST. 18"	1 1	1.5 1.5	3.0	Existing	MOUNT TO EXISTING SIGN POST
121		R7-3L (MOD)	12"	18"	1	1.5	1.5	Existing	MOUNT TO EXISTING SIGN POST
124		W9-1 (MOD) W16-2aP	30" 24"	30" 12"	1 1	6.25 2.0	8.25	STP-1, 2 1/2" - 12 GA	FOUNDATION - TYPE E

SIGN SCHEDULE

SIGN ASSEMBLY NO(s).	TEXT	MUTCD ST'D.	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (S.F.)		SIGN STRUCTURE ST'D.	REMARKS
			PANEL SIZE		QTY.	per Sign	per Assembly		
			W	H					
126		M3-2 M1-V1a M6-3 R7-3L	EXIST. EXIST. EXIST.	EXIST. EXIST. EXIST.	1 1 1	2.0 4.0 2.2	9.7	Existing	MOUNT TO EXISTING SIGN POST

NOTES:

- ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
- SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK AND THE 2011 VIRGINIA STANDARD HIGHWAY SIGNS BOOK OR AS NOTED IN THE PLANS.
- ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.



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Bike Infrastructure / Roadway Conversion Project
Fairmount Avenue
Richmond, Virginia

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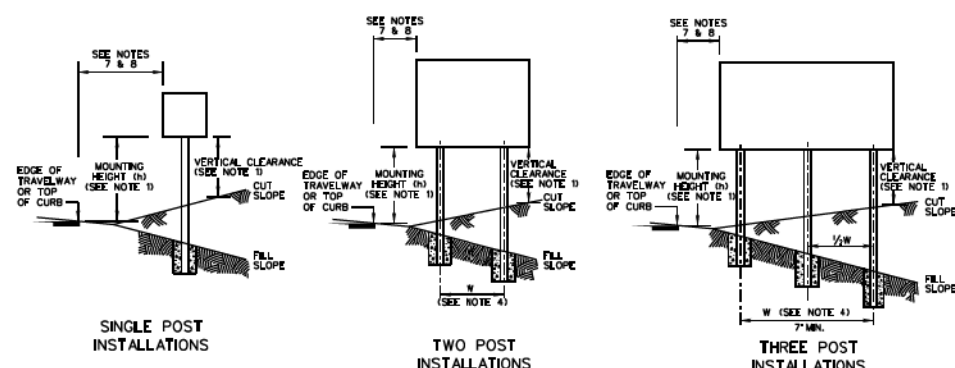
Designed by **RSS** Checked by **JLB**
Issued for **90% Construction Plan** Date: **August 2020**

Drawing Title
Proposed Sign Schedule

PROJECT	34965/2	SHEET NO.	1B
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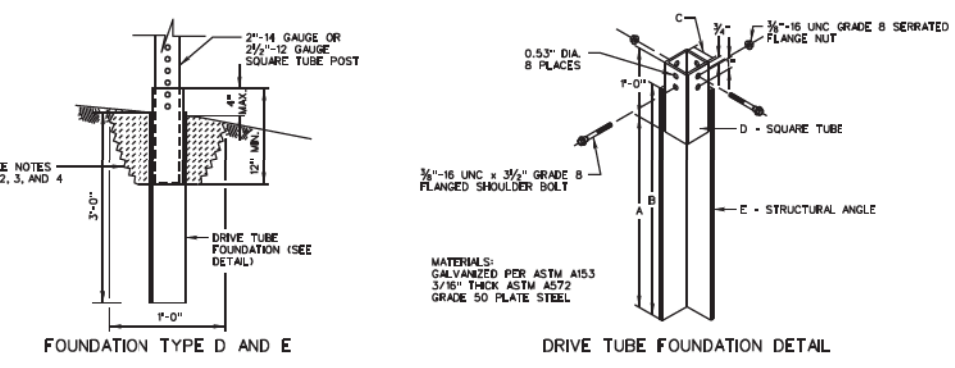


MINIMUM MOUNTING HEIGHT (ft)

TYPE	RESIDENTIAL AREAS	COMMERCIAL AREAS	INDUSTRIAL AREAS
REGULATORY	7	8	9
WARNING	7	8	9
INFORMATIONAL	5	6	7

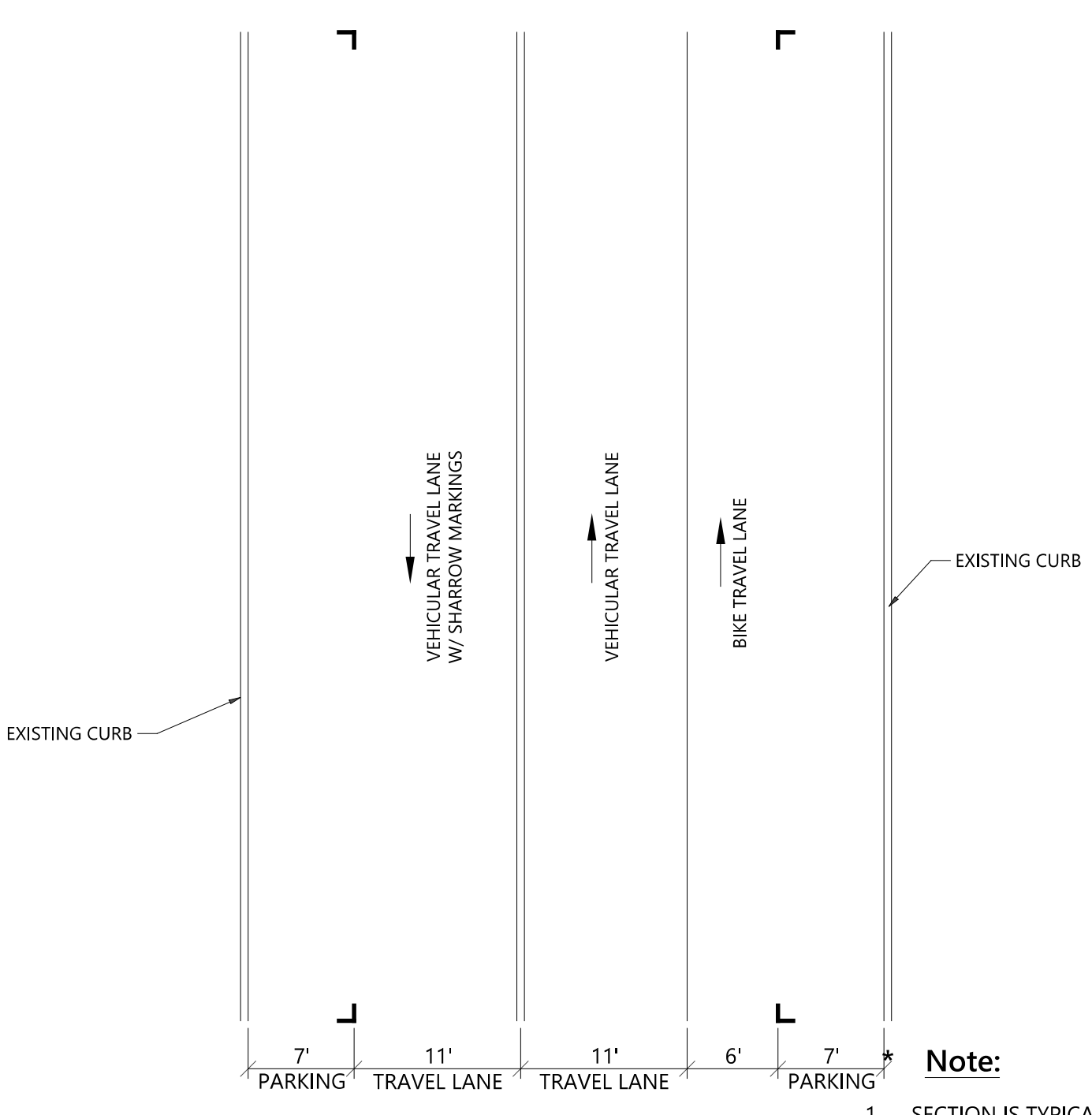
NOTES:

1. ALL SIGNS MUST BE MOUNTED ON THE SIDE OF THE ROADWAY WITH THE "NORMAL" VIEWING ANGLE OF APPROXIMATELY 90 DEGREES TO THE ROADWAY.
2. MOUNTING HEIGHT IN PARKING AREAS SHALL BE BETWEEN 6' 0" AND 8' 0".
3. SIGNS LOCATED IN AREAS WHERE EXISTING OBSTRUCTIONS ARE PRESENT TO THE VIEW OF THE ROADWAY SHALL BE MOUNTED TO CLEAR THE OBSTRUCTIONS BY THE MINIMUM HEIGHT LISTED ABOVE.
4. SIGNS LOCATED IN AREAS WHERE EXISTING OBSTRUCTIONS ARE PRESENT TO THE VIEW OF THE ROADWAY SHALL BE MOUNTED TO CLEAR THE OBSTRUCTIONS BY THE MINIMUM HEIGHT LISTED ABOVE.
5. SIGNS LOCATED IN AREAS WHERE EXISTING OBSTRUCTIONS ARE PRESENT TO THE VIEW OF THE ROADWAY SHALL BE MOUNTED TO CLEAR THE OBSTRUCTIONS BY THE MINIMUM HEIGHT LISTED ABOVE.
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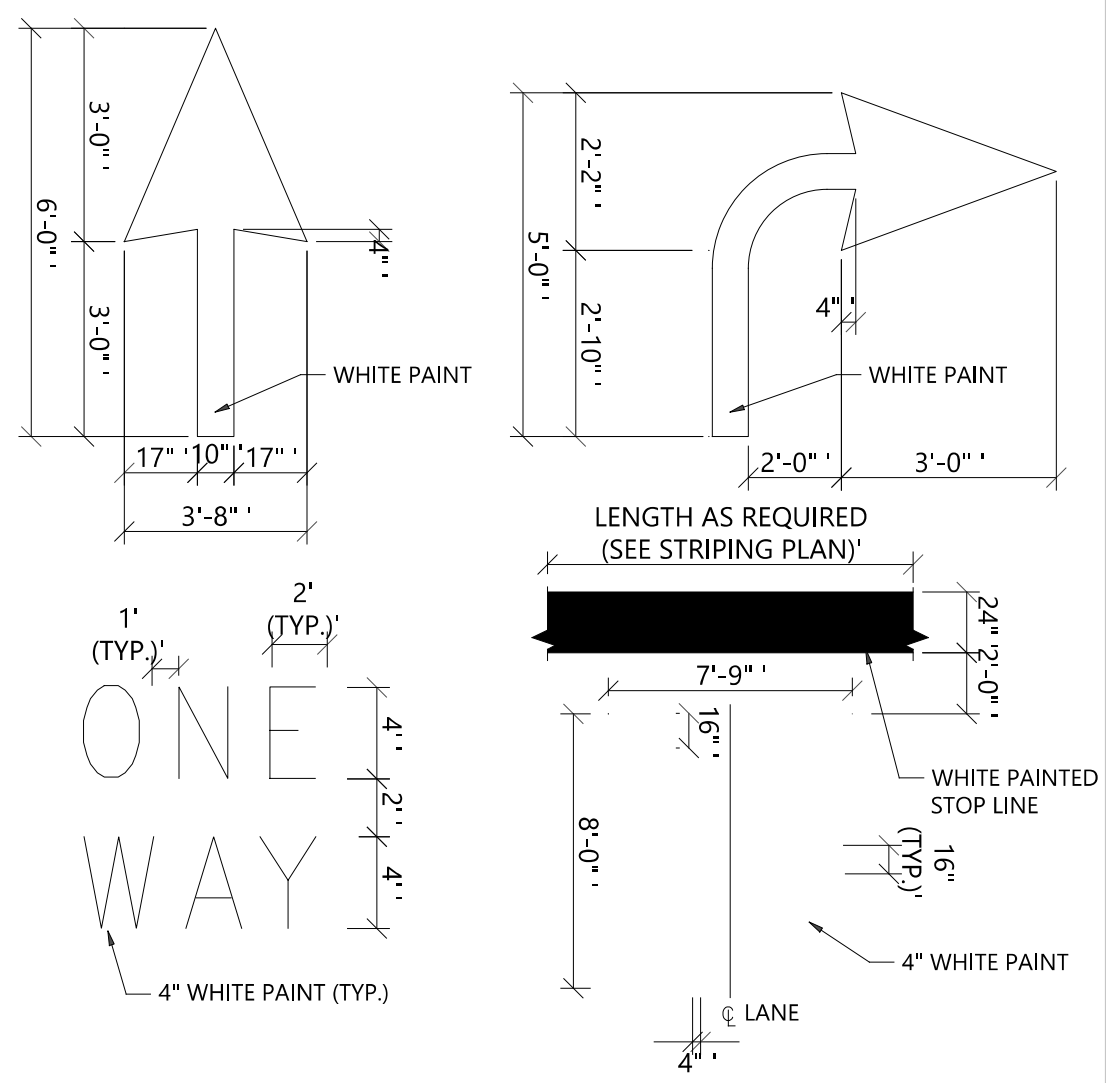
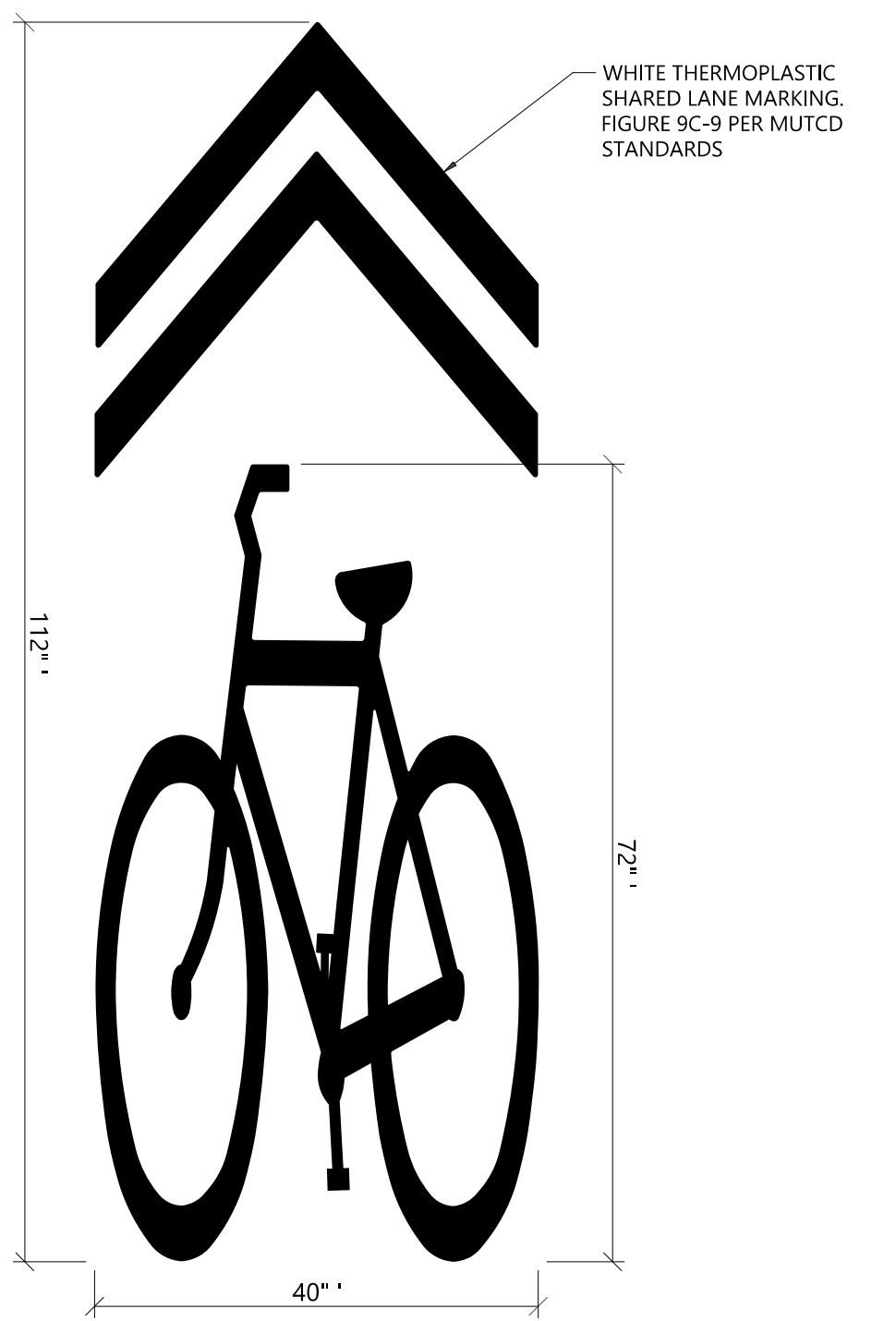
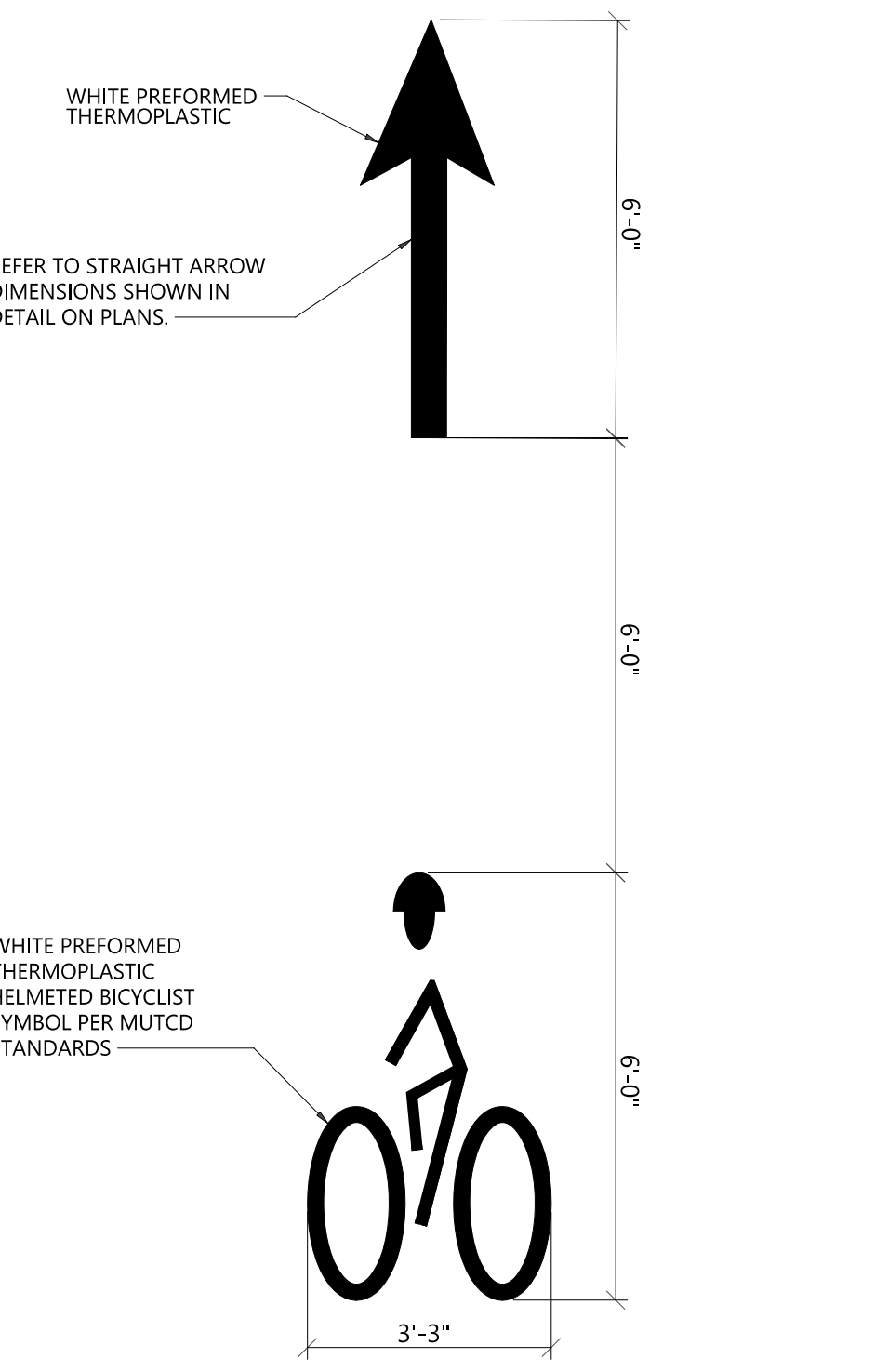
DRIVE TUBE FOUNDATION TABLE

TYPE	TYPE OF SIGN	MINIMUM FOUNDATION DIMENSIONS
TYPE D	A	18" x 18" x 36"
	B	18" x 18" x 36"
	C	18" x 18" x 36"
	D	18" x 18" x 36"
TYPE E	A	18" x 18" x 36"
	B	18" x 18" x 36"
	C	18" x 18" x 36"
	D	18" x 18" x 36"



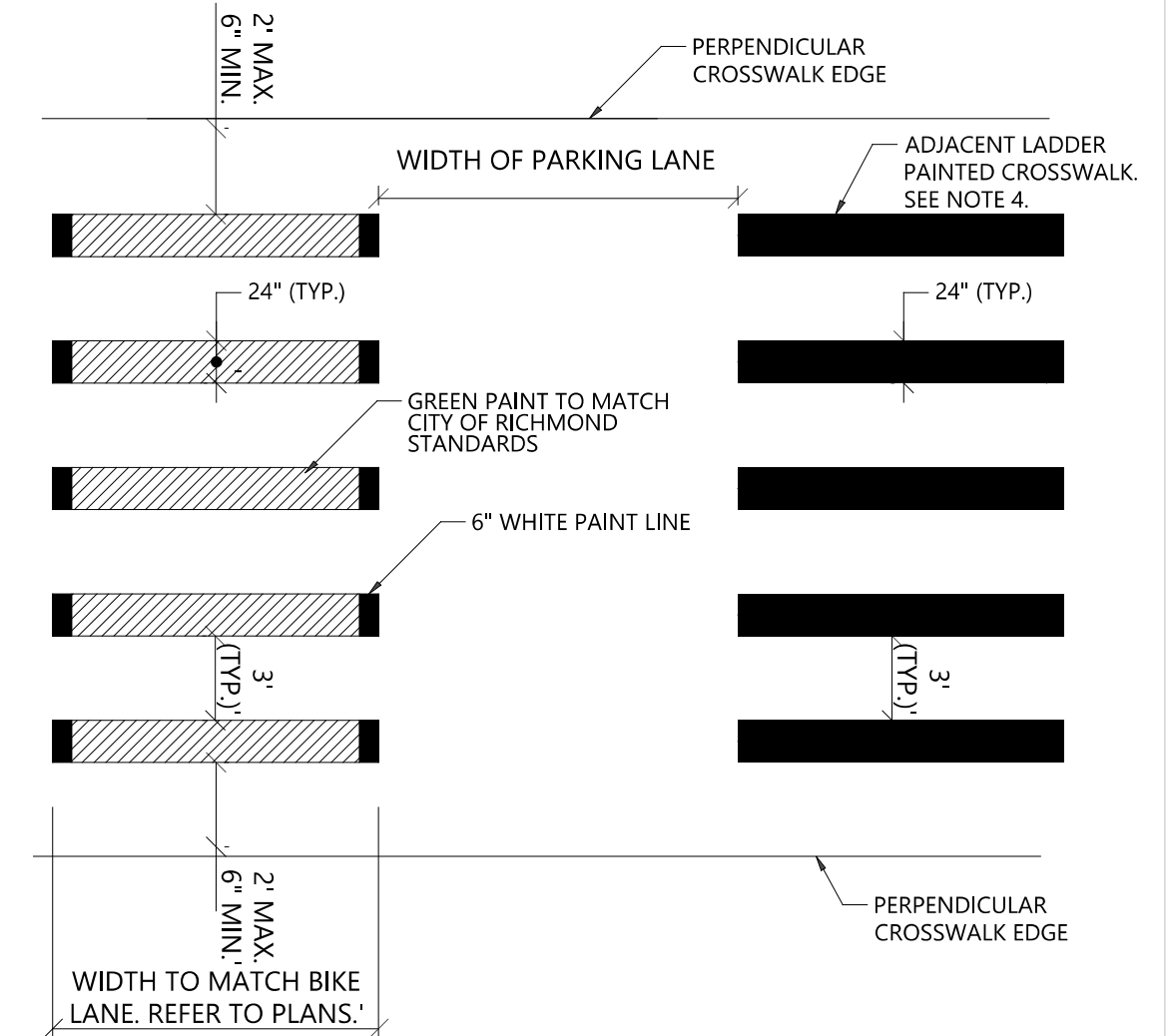
Plan View - Proposed *

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.



NOTES

1. PAVEMENT MARKINGS TO BE INSTALLED FOR ON SITE WORK IN LOCATIONS SHOWN.



NOTES

1. TWENTY-FOUR INCH (24") LINES SHALL BE APPLIED IN ONE APPLICATION. NO COMBINATION OF LINES (TWO - 12 INCH LINES, ETC) WILL BE ACCEPTED.
2. LONGITUDINAL LINES TO BE PARALLEL TO CURBLINE.
3. ALL LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.
4. WHERE ADJACENT TO LADDER PAINTED CROSSWALK, CROSSBIKE STRIPE THICKNESS AND SPACING SHALL MATCH CROSSWALK AND PROVIDE 6" SEPARATION MINIMUM BETWEEN CROSSBIKE AND CROSSWALK.

Bike Infrastructure / Roadway Conversion Project
Fairmount Avenue
Richmond, Virginia

No.	Revision	Date	Appvd.

Designed by: RSS Checked by: JLB
Issued for: 90% Construction Plan Date: August 2020

Drawing Title

Details

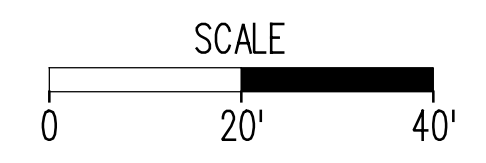


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**Bike Infrastructure /
Roadway Conversion Project**
Fairmount Avenue
Richmond, Virginia

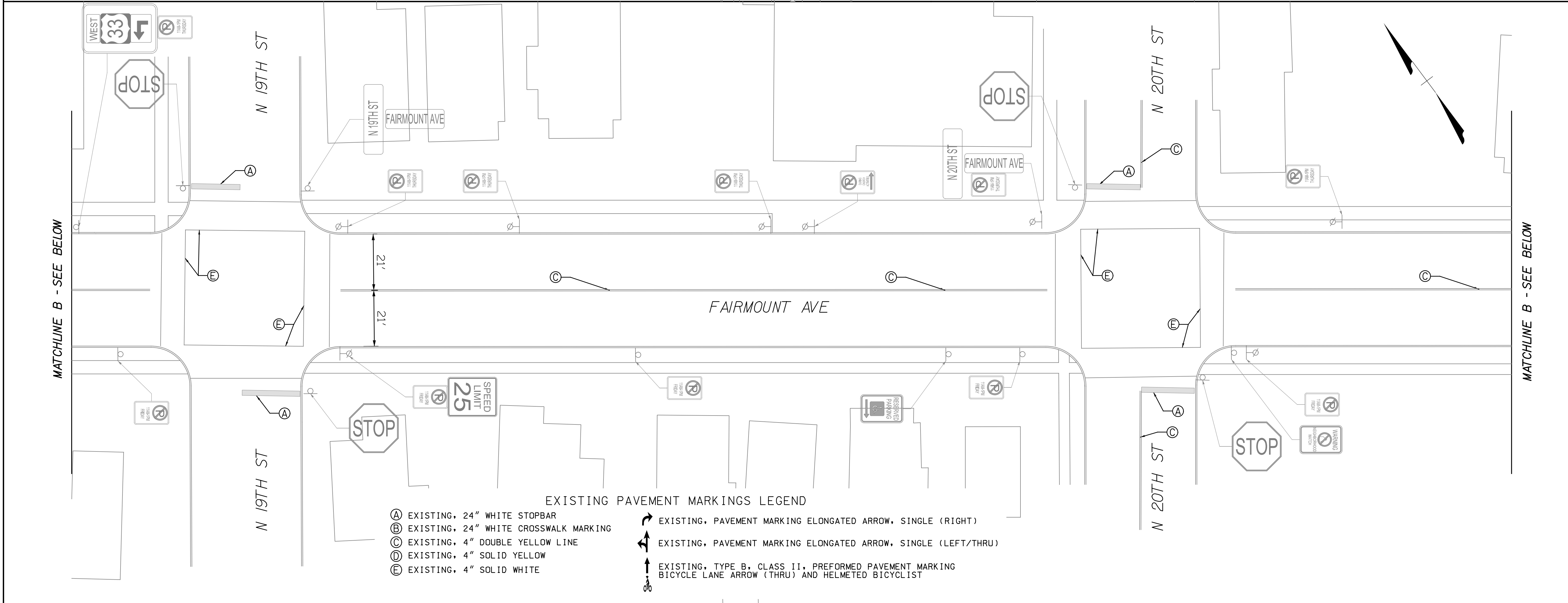
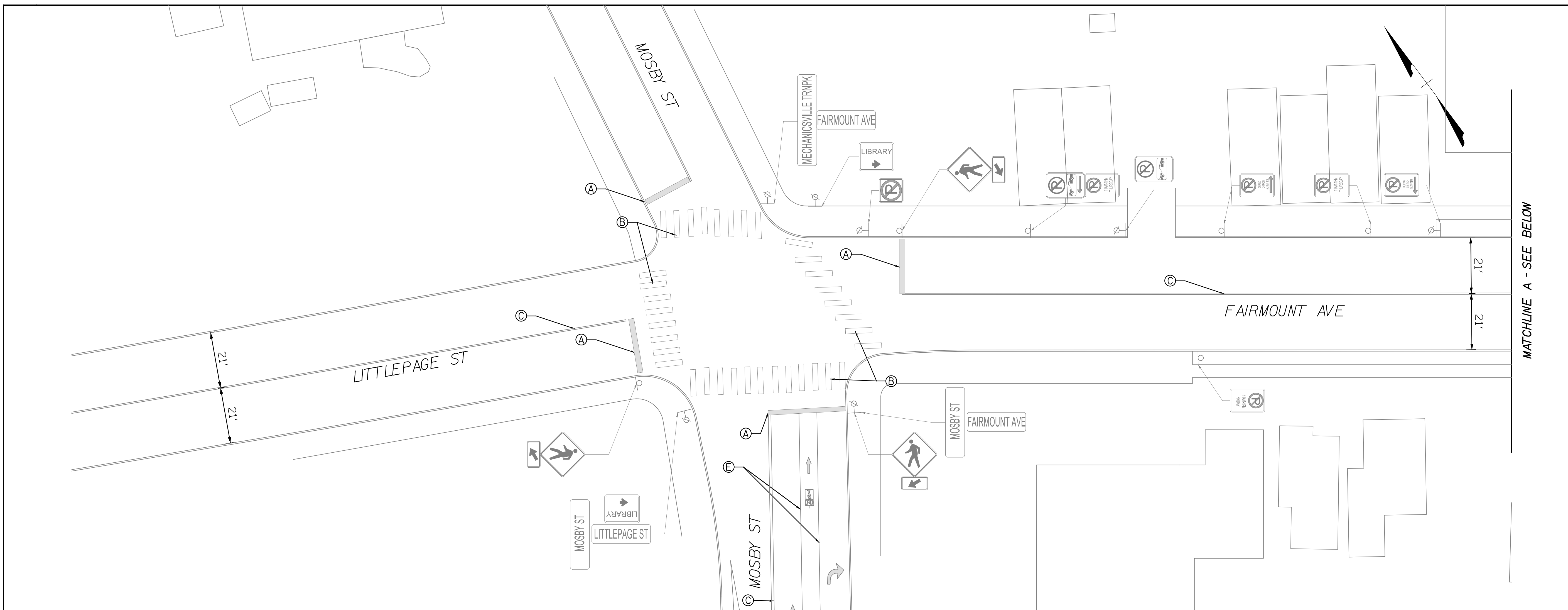
No.	Revision	Date	Appvd.

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Issued for **90% Construction Plan** Date: **August 2020**



Drawing Title
Existing Conditions

PROJECT 34965/2	SHEET NO. 2
---------------------------	-----------------------



- EXISTING PAVEMENT MARKINGS LEGEND**
- Ⓐ EXISTING, 24" WHITE STOPBAR
 - Ⓑ EXISTING, 24" WHITE CROSSWALK MARKING
 - Ⓒ EXISTING, 4" DOUBLE YELLOW LINE
 - Ⓓ EXISTING, 4" SOLID YELLOW
 - Ⓔ EXISTING, 4" SOLID WHITE
 - ➔ EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (RIGHT)
 - ➜ EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (LEFT/THRU)
 - ➡ EXISTING, TYPE B, CLASS II, PREFORMED PAVEMENT MARKING BICYCLE LANE ARROW (THRU) AND HELMETED BICYCLIST

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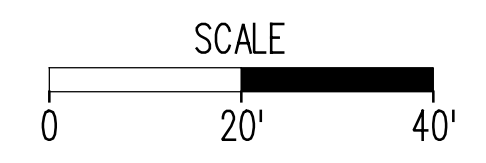


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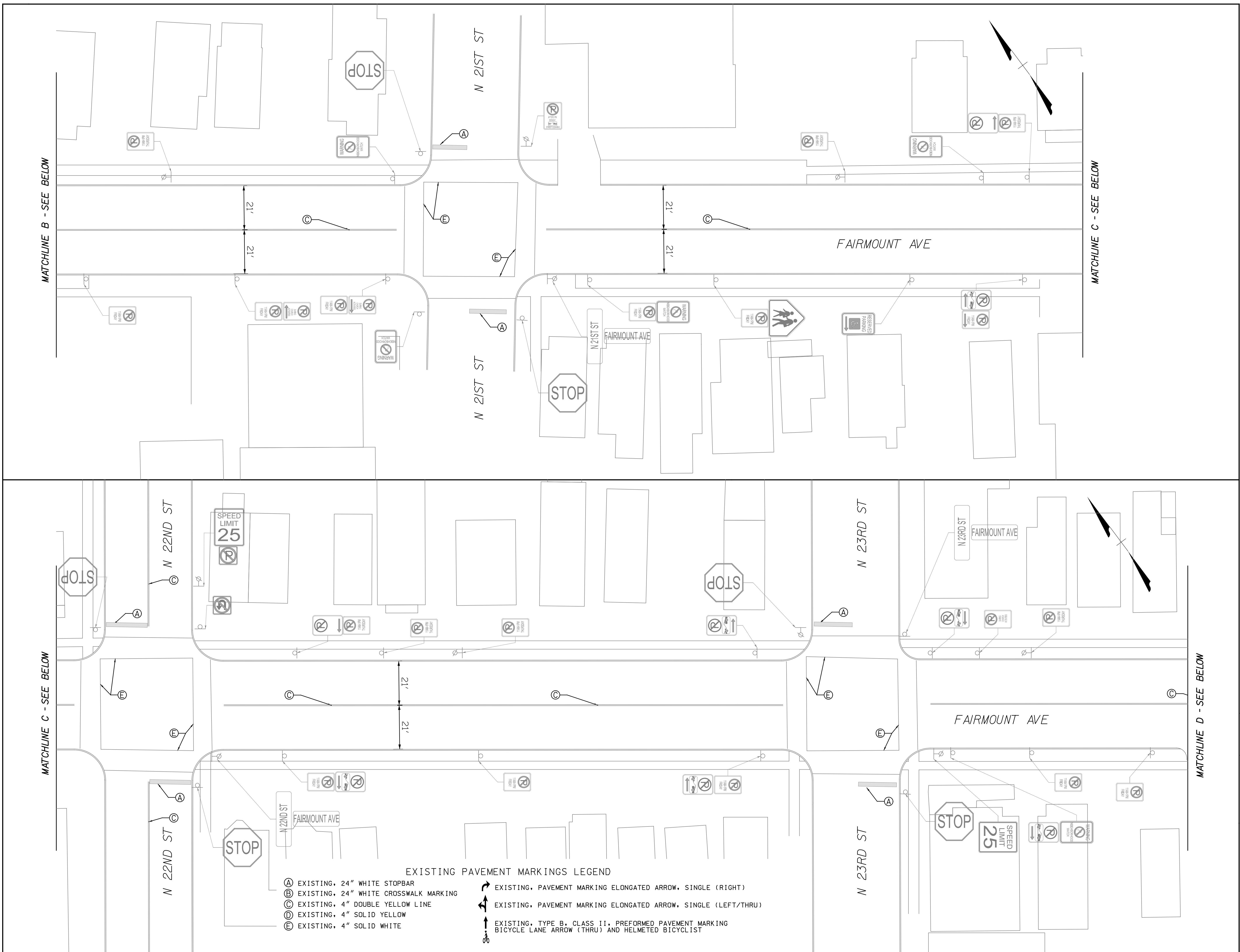
**Bike Infrastructure /
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Fairmount Avenue
Richmond, Virginia

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Designed by	RSS	Checked by	JLB
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Drawing Title
Existing Conditions



- EXISTING PAVEMENT MARKINGS LEGEND**
- Ⓐ EXISTING, 24" WHITE STOPBAR
 - Ⓑ EXISTING, 24" WHITE CROSSWALK MARKING
 - Ⓒ EXISTING, 4" DOUBLE YELLOW LINE
 - Ⓓ EXISTING, 4" SOLID YELLOW
 - Ⓔ EXISTING, 4" SOLID WHITE
 - ➔ EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (RIGHT)
 - ➔ EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (LEFT/THRU)
 - ➔ EXISTING, TYPE B, CLASS II, PREFORMED PAVEMENT MARKING BICYCLE LANE ARROW (THRU) AND HELMETED BICYCLIST

\$20M/\$50M
 \$20M/\$50M



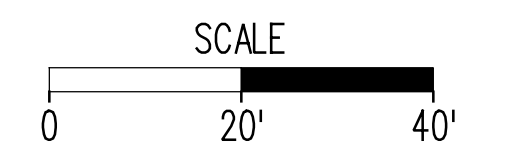
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Bike Infrastructure / Roadway Conversion Project

Fairmount Avenue
Richmond, Virginia

No.	Revision	Date	Appvd.

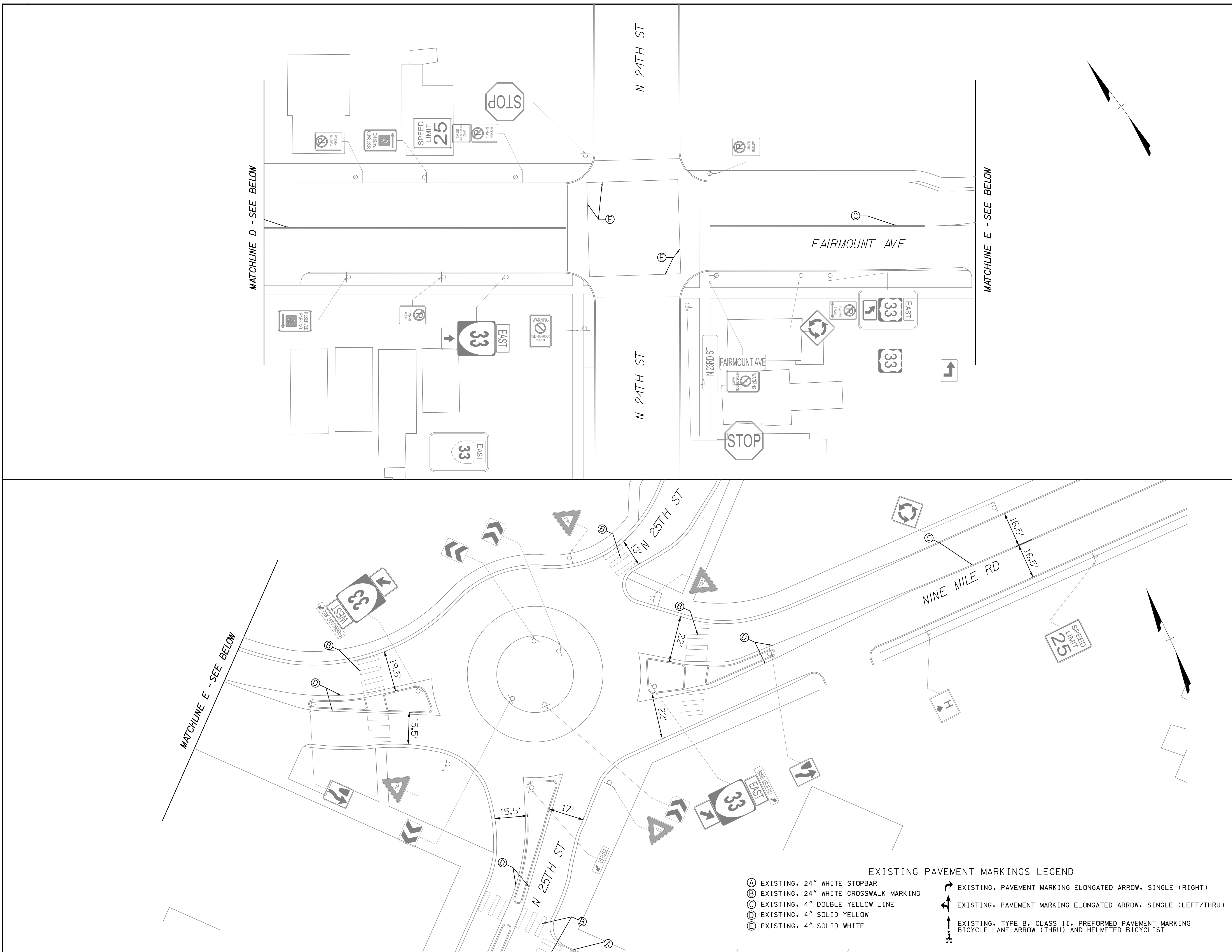
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 Issued for: **90% Construction Plan** Date: **August 2020**



Drawing Title

Existing Conditions

PROJECT 34965/2	SHEET NO. 4
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- EXISTING PAVEMENT MARKINGS LEGEND**
- (A) EXISTING, 24" WHITE STOPBAR
 - (B) EXISTING, 24" WHITE CROSSWALK MARKING
 - (C) EXISTING, 4" DOUBLE YELLOW LINE
 - (D) EXISTING, 4" SOLID YELLOW
 - (E) EXISTING, 4" SOLID WHITE
 - (F) EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (RIGHT)
 - (G) EXISTING, PAVEMENT MARKING ELONGATED ARROW, SINGLE (LEFT/THRU)
 - (H) EXISTING, TYPE B, CLASS II, PREFORMED PAVEMENT MARKING BICYCLE LANE ARROW (THRU) AND HELMETED BICYCLIST

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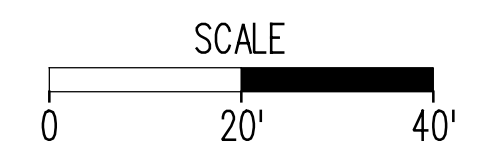


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**Bike Infrastructure /
Roadway Conversion Project**
Fairmount Avenue
Richmond, Virginia

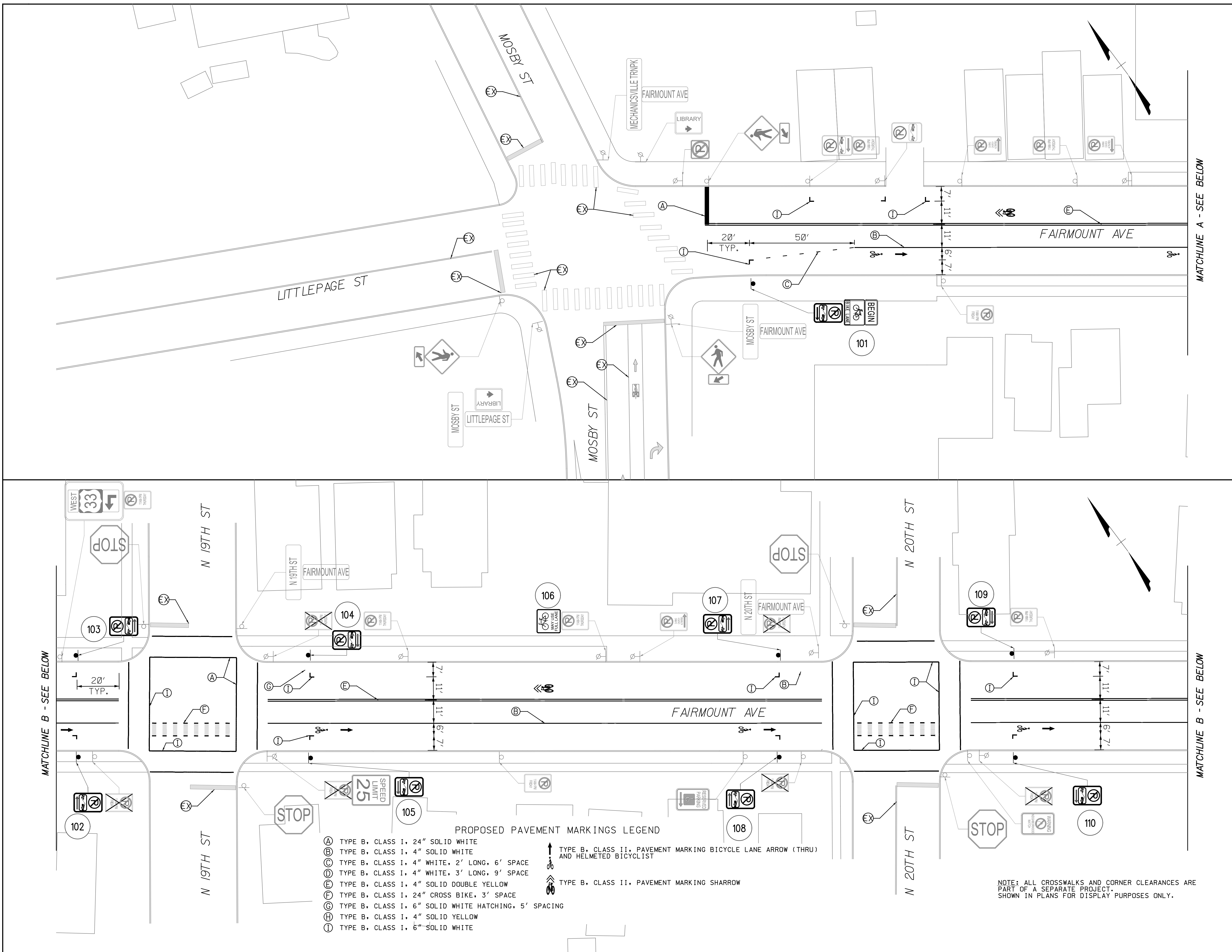
No.	Revision	Date	Appvd.

Designed by **RSS** Checked by **JLB**
Issued for **90% Construction Plan** Date: **August 2020**



Drawing Title
Proposed Conditions

PROJECT 34965/2	SHEET NO. 5
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NOTE: ALL CROSSWALKS AND CORNER CLEARANCES ARE PART OF A SEPARATE PROJECT. SHOWN IN PLANS FOR DISPLAY PURPOSES ONLY.

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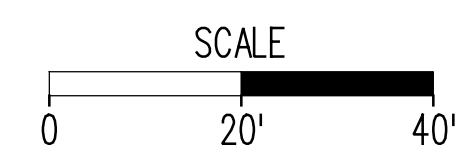
**Bike Infrastructure /
Roadway Conversion Project**
Fairmount Avenue
Richmond, Virginia

No. Revision Date Appvd.

Designed by RSS Checked by JLB

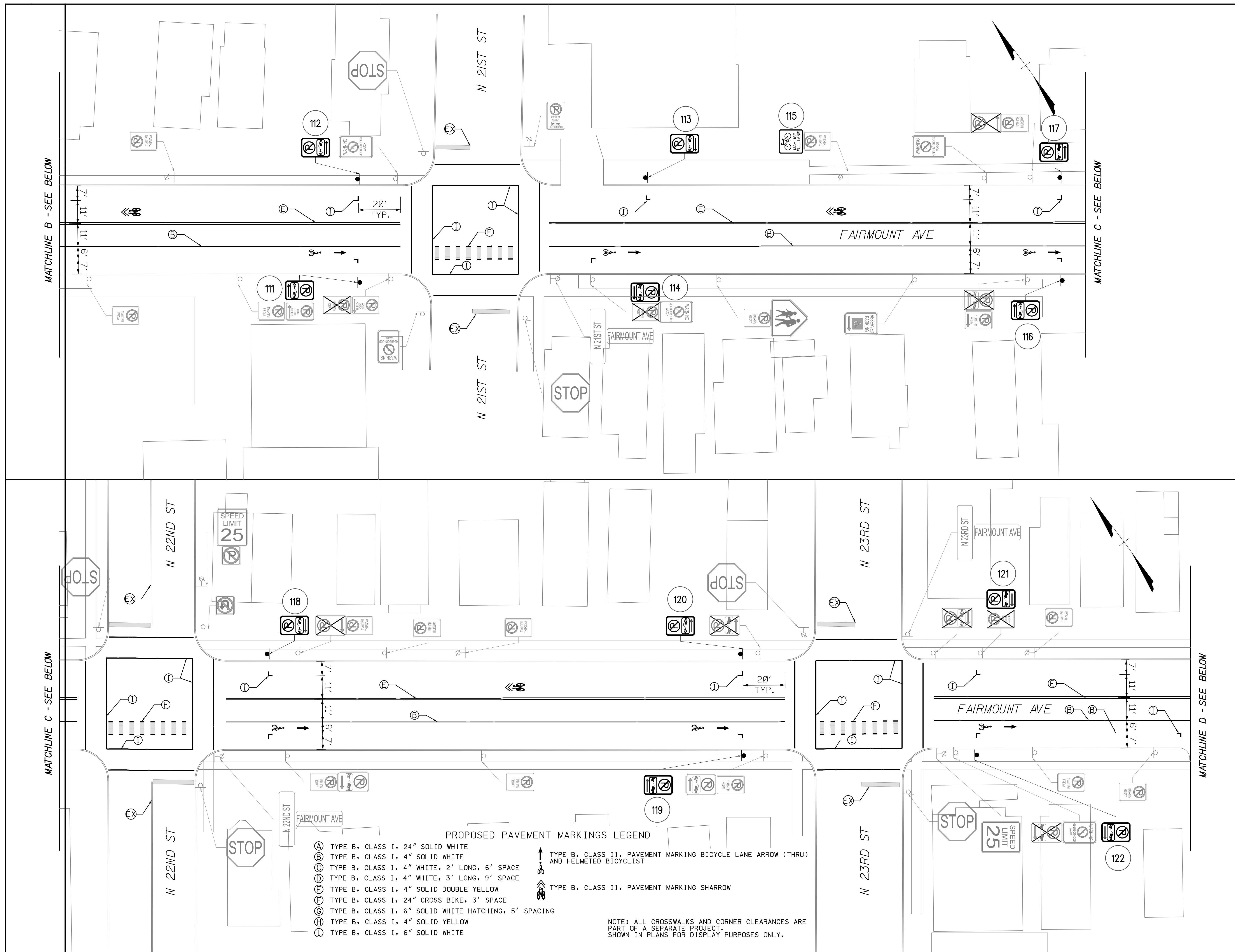
Issued for _____ Date _____

90% Construction Plan August 2020



Drawing Title
Proposed Conditions

PROJECT 34965/2	SHEET NO. 6
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- PROPOSED PAVEMENT MARKINGS LEGEND**
- (A) TYPE B, CLASS I, 24" SOLID WHITE
 - (B) TYPE B, CLASS I, 4" SOLID WHITE
 - (C) TYPE B, CLASS I, 4" WHITE, 2' LONG, 6' SPACE
 - (D) TYPE B, CLASS I, 4" WHITE, 3' LONG, 9' SPACE
 - (E) TYPE B, CLASS I, 4" SOLID DOUBLE YELLOW
 - (F) TYPE B, CLASS I, 24" CROSS BIKE, 3' SPACE
 - (G) TYPE B, CLASS I, 6" SOLID WHITE HATCHING, 5' SPACING
 - (H) TYPE B, CLASS I, 4" SOLID YELLOW
 - (I) TYPE B, CLASS I, 6" SOLID WHITE
 - ↑ TYPE B, CLASS II, PAVEMENT MARKING BICYCLE LANE ARROW (THRU) AND HELMETED BICYCLIST
 - ↔ TYPE B, CLASS II, PAVEMENT MARKING SHARROW
- NOTE: ALL CROSSWALKS AND CORNER CLEARANCES ARE PART OF A SEPARATE PROJECT, SHOWN IN PLANS FOR DISPLAY PURPOSES ONLY.

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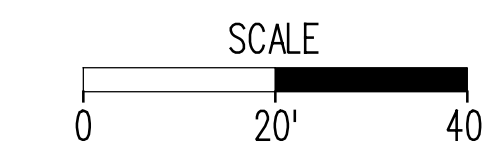
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Bike Infrastructure / Roadway Conversion Project

Fairmount Avenue
Richmond, Virginia

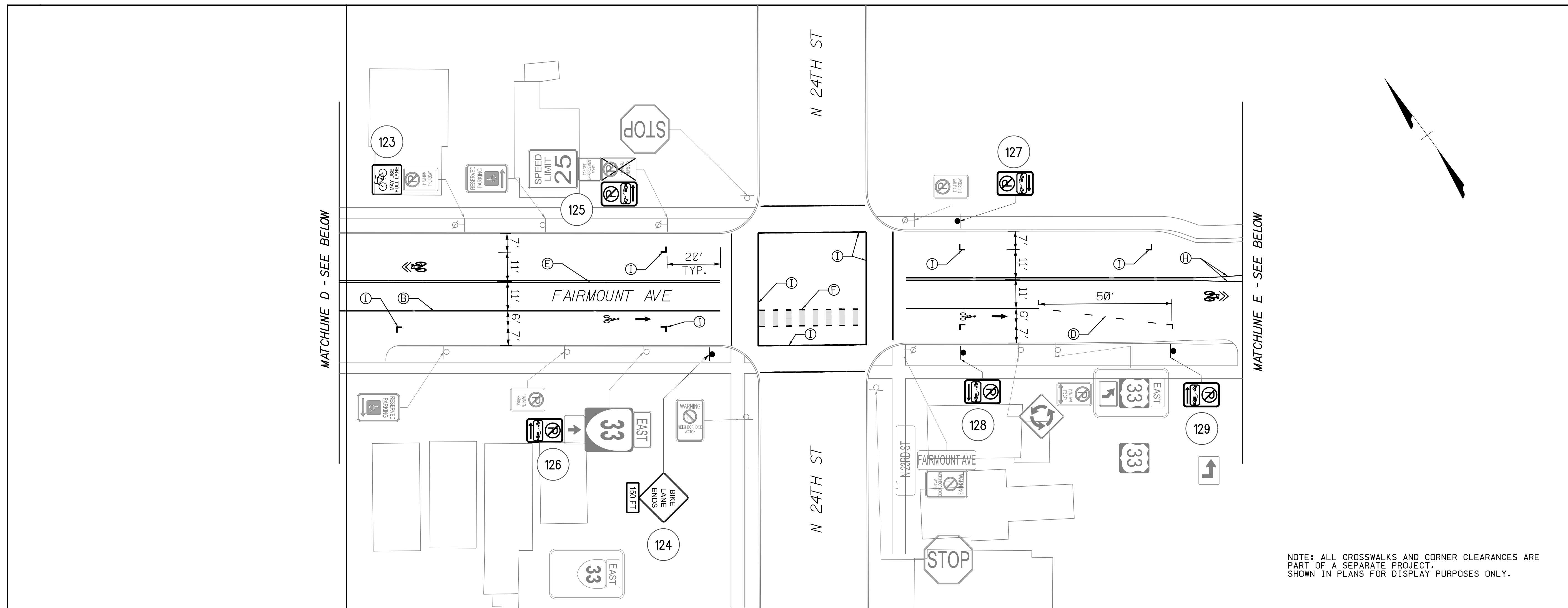
No.	Revision	Date	Apprv.

Designed by: **RSS** Checked by: **JLB**
 Issued for: **90% Construction Plan** Date: **August 2020**

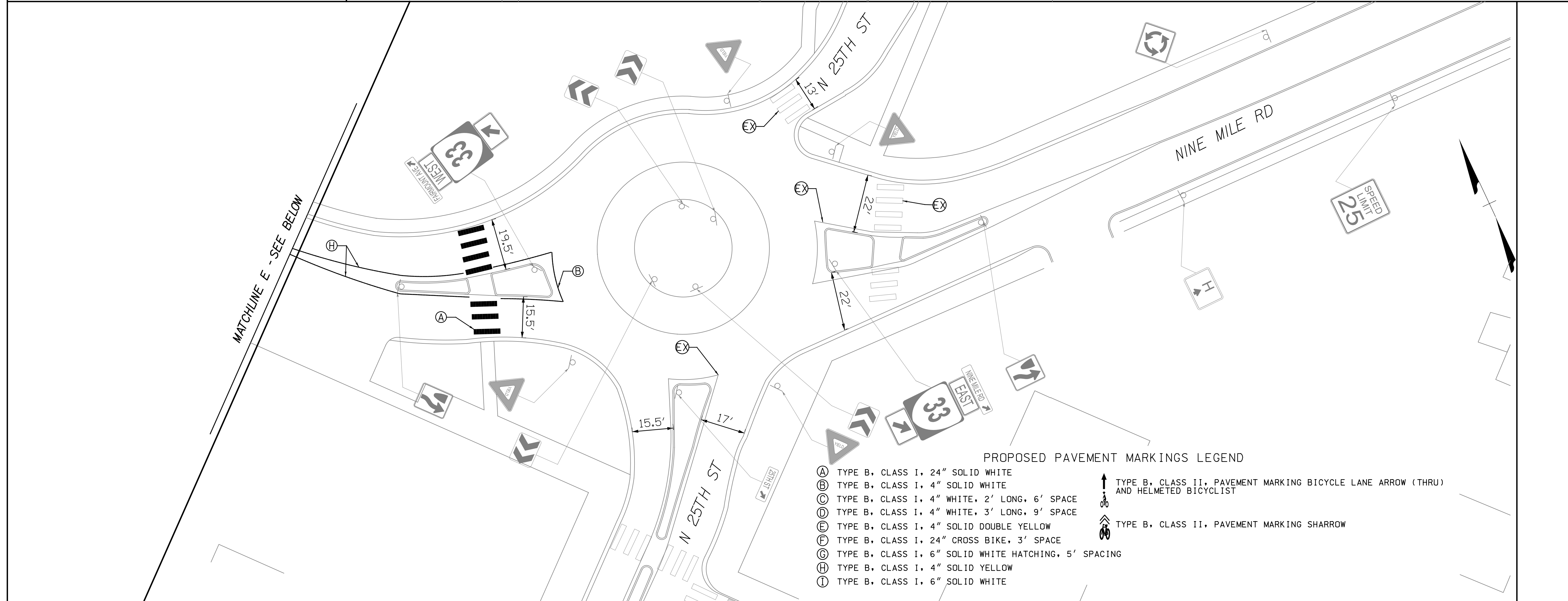


Drawing Title
Proposed Conditions

PROJECT 34965/2	SHEET NO. 7
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NOTE: ALL CROSSWALKS AND CORNER CLEARANCES ARE PART OF A SEPARATE PROJECT. SHOWN IN PLANS FOR DISPLAY PURPOSES ONLY.



- PROPOSED PAVEMENT MARKINGS LEGEND**
- (A) TYPE B, CLASS I, 24" SOLID WHITE
 - (B) TYPE B, CLASS I, 4" SOLID WHITE
 - (C) TYPE B, CLASS I, 4" WHITE, 2' LONG, 6' SPACE
 - (D) TYPE B, CLASS I, 4" WHITE, 3' LONG, 9' SPACE
 - (E) TYPE B, CLASS I, 4" SOLID DOUBLE YELLOW
 - (F) TYPE B, CLASS I, 24" CROSS BIKE, 3' SPACE
 - (G) TYPE B, CLASS I, 6" SOLID WHITE HATCHING, 5' SPACING
 - (H) TYPE B, CLASS I, 4" SOLID YELLOW
 - (I) TYPE B, CLASS I, 6" SOLID WHITE
 - (J) TYPE B, CLASS II, PAVEMENT MARKING BICYCLE LANE ARROW (THRU) AND HELMETED BICYCLIST
 - (K) TYPE B, CLASS II, PAVEMENT MARKING SHARROW

\$DOM/\$
\$DORLEY