

CITY OF
ALEXANDRIA
Virginia

Department of Transportation & Environmental Services

301 KING STREET
ROOM 3600
ALEXANDRIA, VA 22314

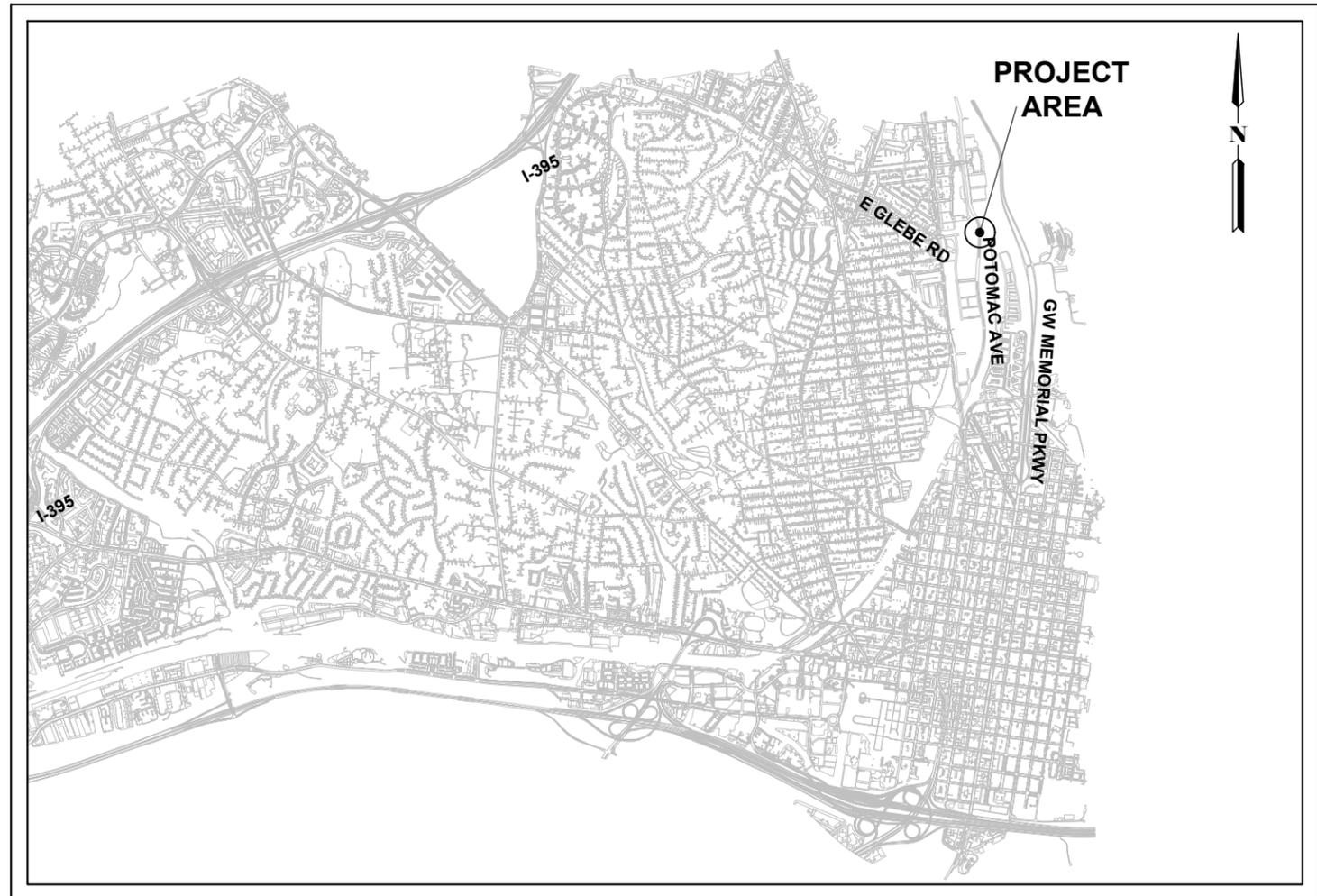
TEL. 703.746.4408
www.alexandriava.gov

LOCATION MAP
1"=4000'

PLANS FOR:

POTOMAC AVENUE & GLEBE ROAD INTERSECTION SAFETY IMPROVEMENTS

AUGUST 2022 - 100% SUBMITTAL

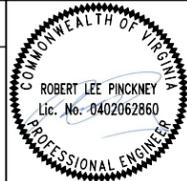


INDEX OF SHEETS	
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5	D-1 ADDITIONAL DETAILS
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100% DESIGN SUBMISSION

H:\50000\50827_P_Potomac Yard Safety Improvements\PRODUCTION\CAD\PL\50827_G_01.dwg Friday, August 5, 2022 3:47:30 PM

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA, LICENSE NO. 0402062860, EXPIRATION DATE: 11-30-22.



REUSE OF DOCUMENTS					
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.					
DSGN	MMG				
DR	SRL				
CHK	ECG				
APVD	RLP	NO.	DATE	REVISION	BY APVD

TOOLE DESIGN

8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

POTOMAC AVENUE & GLEBE ROAD INTERSECTION SAFETY IMPROVEMENTS
CITY OF ALEXANDRIA, VA

GENERAL	
G-1 COVER SHEET	

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	G-1
SHEET NO.	1 OF 7

GENERAL NOTES

- ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE GOVERNED BY THE LATEST VERSION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, ROAD DESIGN MANUAL, AND ROAD AND BRIDGE STANDARDS ISSUED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT).
- BASE MAPPING WAS PREPARED FROM GIS DATA PROVIDED BY THE CITY OF ALEXANDRIA. ALL DIMENSIONS AND EXISTING FEATURES SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING MATERIALS FOR CONSTRUCTION. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, ANY DISCREPANCIES SHALL BE REPORTED TO THE CITY ENGINEER PRIOR TO BEGINNING WORK. PROPOSED STRIPING AND SIGNS MAY BE ADJUSTED AS DIRECTED BY THE CITY ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING WORK. ANY DAMAGE TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND FEATURES OUTSIDE THE LIMITS OF WORK AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE CITY ENGINEER ANY OTHER DAMAGE SO CAUSED.

SIGNING AND PAVEMENT MARKINGS

- ALL STRIPING AND SIGN WORK SHALL MEET ALL APPLICABLE VDOT, CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS, AND 2009 MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD) REQUIREMENTS.
- ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED.
- DRIVEWAYS - NOT ALL DRIVEWAYS HAVE BEEN LOCATED FOR THIS STRIPING PLAN. FIELD VERIFY DRIVEWAY LOCATIONS BEFORE APPLYING STRIPING.
- ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
- PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E. SHALL NOT OVERHANG BEYOND THE FACE OF CURB.
- PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB UNLESS SPECIFICALLY NOTED OTHERWISE. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
- PROPOSED SIGNS AT NEW LOCATIONS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.
- PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT BY A MINIMUM OF 10 FEET.
- FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
- SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE CITY ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- IF SIGN INSTALLATION IS SHOWN ON A POLE THAT IS NOT OWNED BY THE CITY, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER (UTILITY COMPANY OR PROPERTY OWNER). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMISSION.
- ALL SIGN LOCATIONS SHOWN ON THE PLANS ARE SCHEMATIC AND MAY NOT REFLECT ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY EACH LOCATION PRIOR TO INSTALLING A SIGN. IF AT ANY POINT THE CONTRACTOR FINDS A CONFLICT, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER PRIOR TO INSTALLING THE PROPOSED SIGN. PROPOSED SIGN LOCATIONS CAN BE ADJUSTED AS APPROVED BY THE CITY ENGINEER.

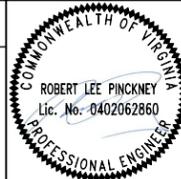
MAINTENANCE OF TRAFFIC

- VIRGINIA MUTCD, VDOT AND CITY OF ALEXANDRIA STANDARD DETAILS AND PROCEDURES FOR MAINTENANCE OF TRAFFIC SHALL BE USED FOR INSTALLATION OF ALL PROJECT FEATURES.
- ALL EXISTING RESIDENTIAL AND COMMERCIAL DRIVEWAYS AND PUBLIC ALLEY ENTRANCES SHALL REMAIN OPEN AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- FOR LOCATIONS WHERE THE WORK WILL BE COMPLETE WITHIN ONE WORKING DAY, THE CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, CHANNELIZING DEVICES, CHANGEABLE MESSAGE BOARDS, AND WARNING LIGHTS AS NECESSARY TO COMPLY WITH VDOT AND MUTCD REQUIREMENTS FOR SHORT-TERM STATIONARY WORK AND MOBILE WORK.
- TEMPORARY "MOBILE" LANE CLOSURES UTILIZING VEHICLES WITH WARNING LIGHTS AND SIGNS PER MUTCD WILL BE ALLOWED FOR LANE CLOSURES WHERE THE WORK WILL BE COMPLETED WITHIN ONE WORKING DAY. FOR LOCATIONS WHERE THE WORK WILL NOT BE COMPLETE WITHIN ONE WORKING DAY OR OCCUR AT NIGHT, THE CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, CHANNELIZING DEVICES, CHANGEABLE MESSAGE BOARDS, AND WARNING LIGHTS AS NECESSARY TO COMPLY WITH VDOT AND MUTCD REQUIREMENTS FOR INTERMEDIATE-TERM STATIONARY WORK.
- THE SIDEWALKS AND CROSSWALKS MUST REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- TEMPORARY SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES.
- FULL VIEW OF ADVANCE WARNING SIGNS SHALL BE CLEAR OF OBSTRUCTION ON APPROACH TO WORK ZONE.
- THE CONTRACTOR SHALL OBTAIN THE NECESSARY NOISE PERMIT FOR WEEKEND AND NIGHT-TIME WORK.
- ALL AFFECTED TRAVEL LANES SHALL MAINTAIN A 10-FOOT MINIMUM WIDTH UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

100% DESIGN SUBMISSION

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REUSE OF DOCUMENTS

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DSGN	MMG	NO.	DATE	REVISION	BY	APVD
DR	SRL					
CHK	ECG					
APVD	RLP					

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DESIGN**

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CITY OF ALEXANDRIA, VA

GENERAL

G-2 GENERAL NOTES

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	G-2
SHEET NO.	2 OF 7

MARKING LEGEND

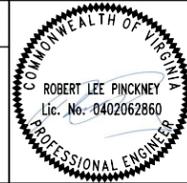
EXISTING	PROPOSED	
		FLEX POST
		SIGN AND POST
		SHARED LANE MARKING
		4" SOLID WHITE LANE LINE
		4" SOLID YELLOW LANE LINE
		4" DS YCL
		12" SL
		24" SL
		WHITE PAVEMENT ARROW
		RED-COLORED MMA PAINT
		SIGN
		FIRE HYDRANT
		SIGNAL POLE
		LIGHT POLE
		PUSH BUTTON
		TRAFFIC CABINET / BOX
		STORM INLET
		CONCRETE PAVEMENT
		COMBINED PEDESTRIAN-BUS SIGNAL

POTOMAC AVENUE & GLEBE ROAD - SIGN SCHEDULE							
DWG NO.	SIGN DESIGNATION	SIGN DESCRIPTION	SIZE (INCHES)	SF	QUANTITY	TOTAL SF	NEW SIGN POST (LF)
C-2	R4-11	BIKES MAY USE FULL LANE	30 X 30	6.25	2	12.5	12
C-2	R10-11	NO TURN ON RED	24 X 30	5.0	2	10	12
C-2	R9-5	BIKES USE PED SIGNAL	12 X 18	1.5	3	4.5	12
C-2	CUSTOM SHARED ZONE-1	BIKES STOP FOR PEDS / SHARED ZONE	24 X 18	3.0	2	6	24
C-2	R3-11b	RIGHT LANE BUSES ONLY	30 X 42	8.75	1	8.75	12

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DR	SRL				
CHK	ECG				
APVD	RLP	NO.	DATE	REVISION	BY APVD

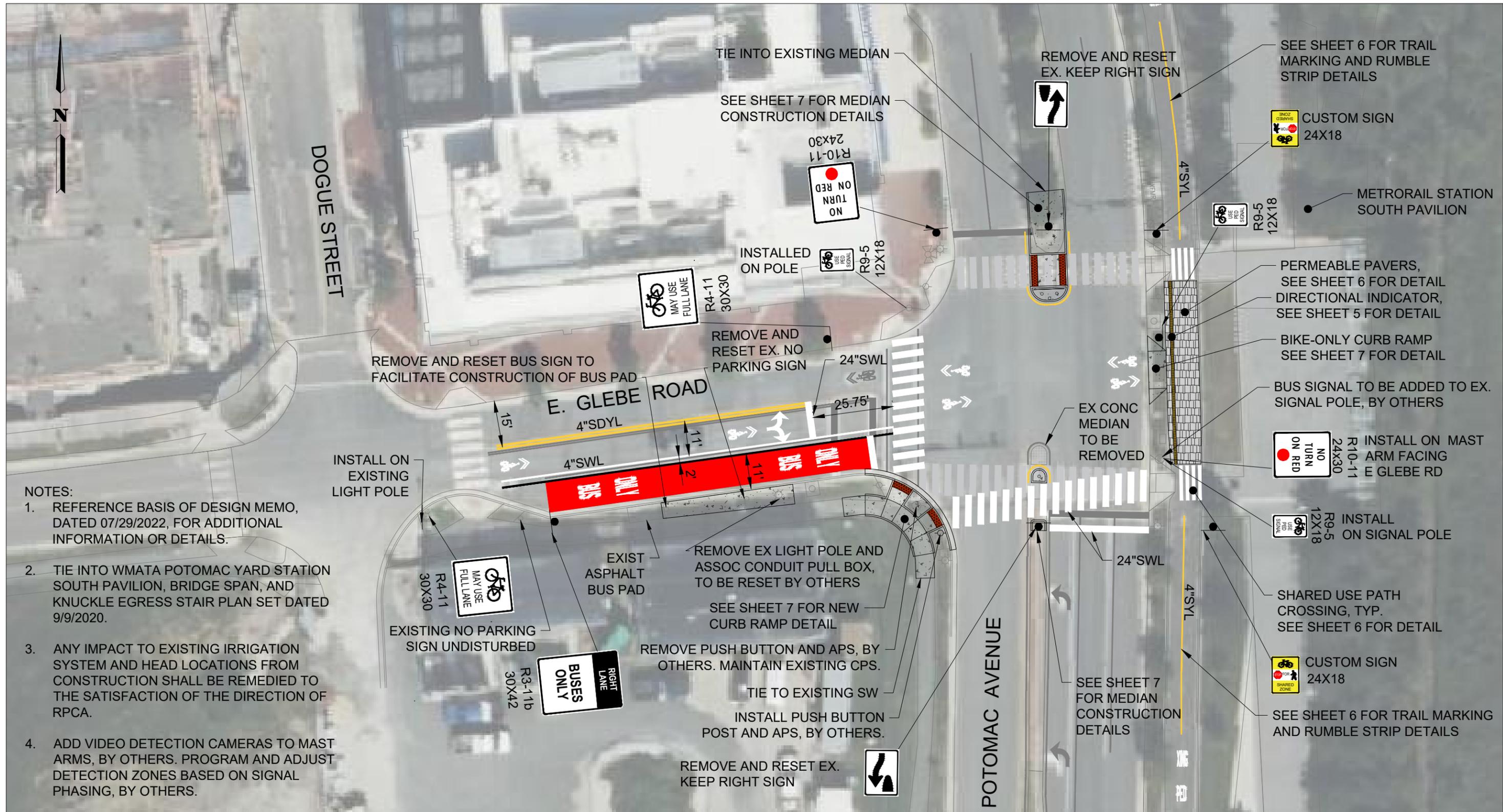


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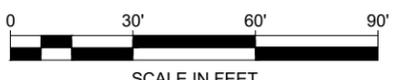
POTOMAC AVENUE & GLEBE ROAD INTERSECTION SAFETY IMPROVEMENTS
 CITY OF ALEXANDRIA, VA

GENERAL
C-1 PAVEMENT MARKING LEGEND & SIGN SCHEDULE

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	C-1
SHEET NO.	3 OF 7

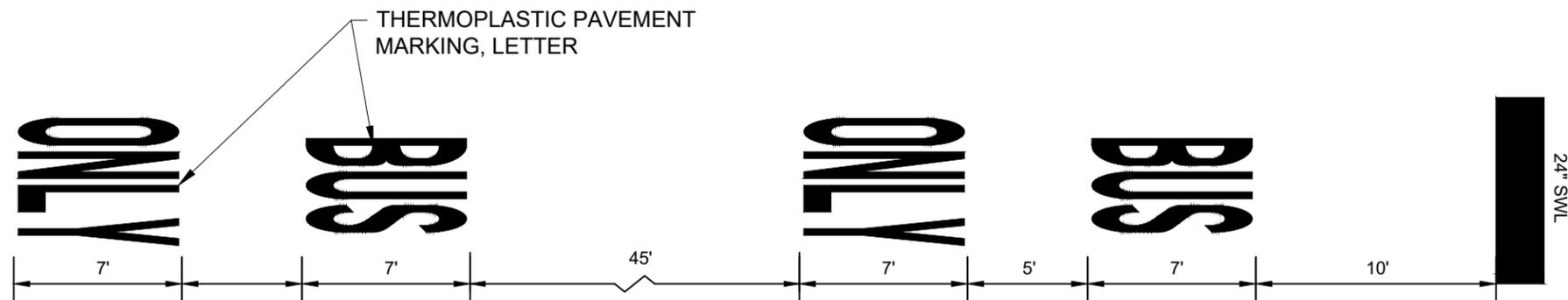


- NOTES:**
1. REFERENCE BASIS OF DESIGN MEMO, DATED 07/29/2022, FOR ADDITIONAL INFORMATION OR DETAILS.
 2. TIE INTO WMATA POTOMAC YARD STATION SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR PLAN SET DATED 9/9/2020.
 3. ANY IMPACT TO EXISTING IRRIGATION SYSTEM AND HEAD LOCATIONS FROM CONSTRUCTION SHALL BE REMEDIED TO THE SATISFACTION OF THE DIRECTION OF RPCA.
 4. ADD VIDEO DETECTION CAMERAS TO MAST ARMS, BY OTHERS. PROGRAM AND ADJUST DETECTION ZONES BASED ON SIGNAL PHASING, BY OTHERS.

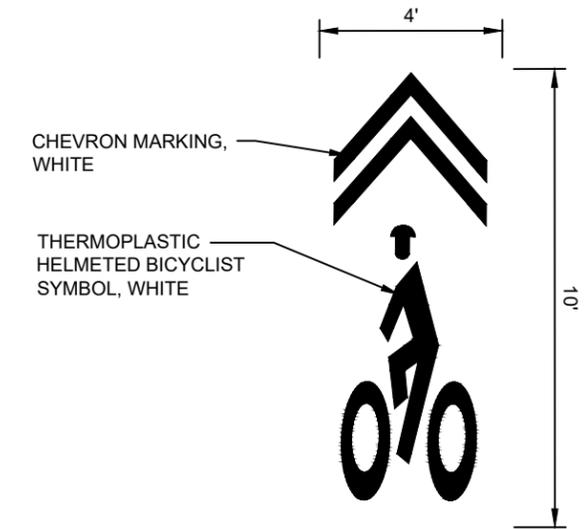


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		DSGN MMG DR SRL CHK ECG APVD RLP	NO. DATE REVISION BY APVD	C-2 PAVEMENT MARKING & SIGNAGE PLAN				DATE 08/05/2022 DRAWING NO. C-2 SHEET NO. 4 OF 7		

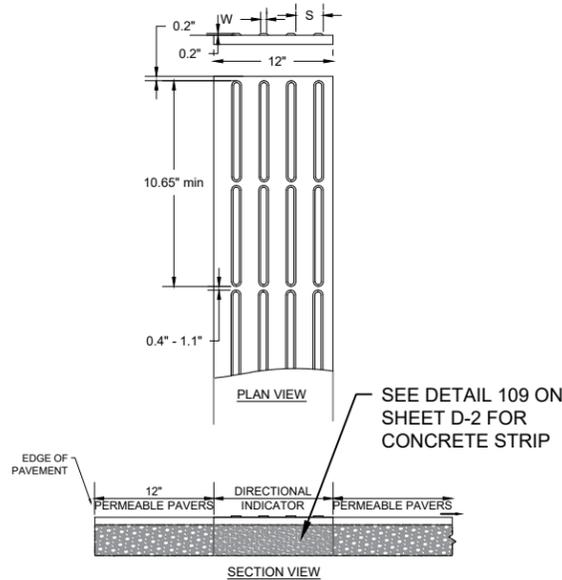


101 BUS-ONLY PAVEMENT MARKING SYMBOL PLAVEMENT
SCALE: N.T.S.

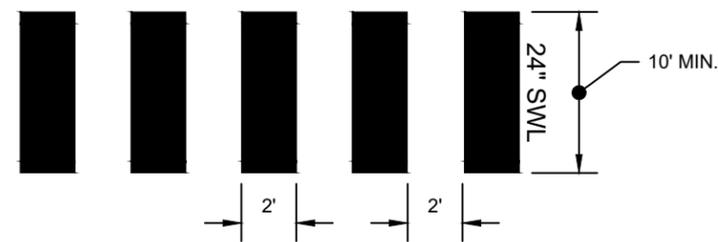


102 SHARED LANE MARKING
SCALE: N.T.S.

W (in)	S (in)
0.67	2.25 - 3
0.8	2.35 - 3.15
1	2.55 - 3.25
1.2	2.75 - 3.35

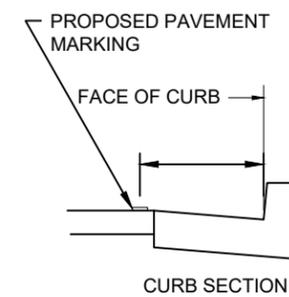


103 DIRECTIONAL INDICATOR DETAIL
SCALE: N.T.S.



NOTE: CROSSWALK MARKINGS PERPENDICULAR TO VEHICLE WHEEL PATH

104 CROSSWALK DETAIL
SCALE: N.T.S.



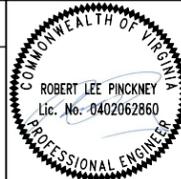
NOTE:
1. LATERAL PAVEMENT MARKING DIMENSIONS ARE TYPICALLY MEASURED TO AN ADJACENT FACE OF CURB OR TO THE CENTERLINE OF AN ADJACENT PAVEMENT MARKING AS SHOWN IN THE DRAWINGS.
2. LATERAL DIMENSION MEASURED TO CENTER OF PAVEMENT MARKING

105 TYPICAL LATERAL STRIPING DIMENSIONS
SCALE: N.T.S.

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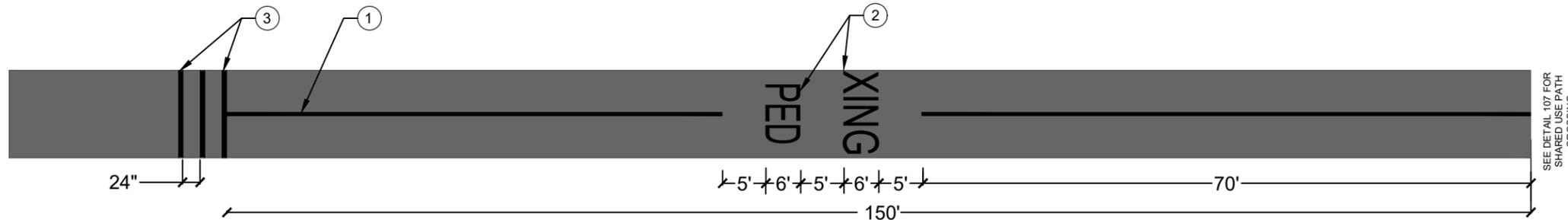
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CIVIL

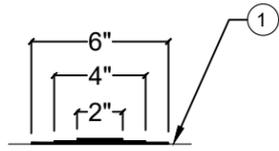
D-1 ADDITIONAL DETAILS

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	D-1
SHEET NO.	5 OF 7



- ① PAINTED STRIPING (SOLID)
- ② PAINTED "ROAD XING" PAVEMENT MARKING, WHITE
- ③ (3) RUMBLE STRIPS 30" ON CENTER, SEE DETAIL 2

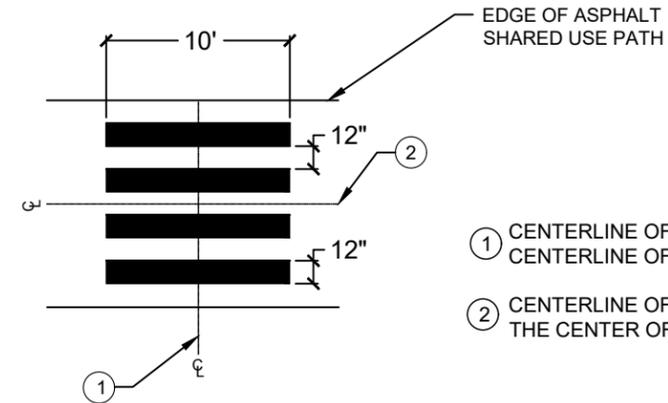
1 TRAIL PAVEMENT MARKING SYMBOL PLACEMENT
SCALE: N.T.S.



① WHITE THERMOPLASTIC PAVEMENT MARKING (EACH MARKING LAYER SHALL BE 80 TO 95 MILS EACH IN ORDER TO ACHIEVE AN OVERALL RUMBLE STRIP THICKNESS OF APPROXIMATELY 1/4". REFER TO PLAN FOR SPACING LAYOUT AND LOCATION.

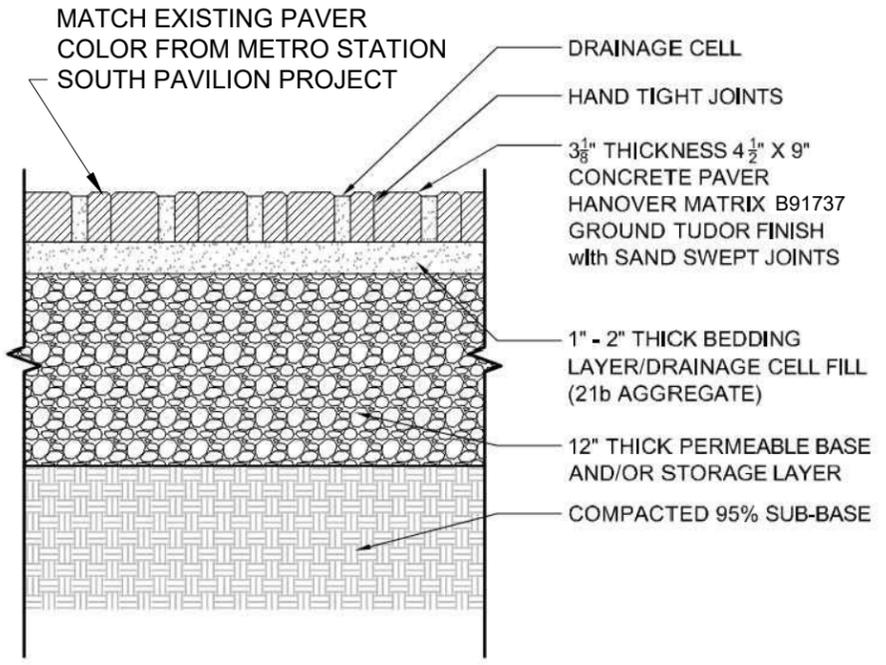
2 RUMBLE STRIP DETAIL
SCALE: N.T.S.

106 TRAIL MARKING & RUMBLE STRIP DETAIL
SCALE: N.T.S.

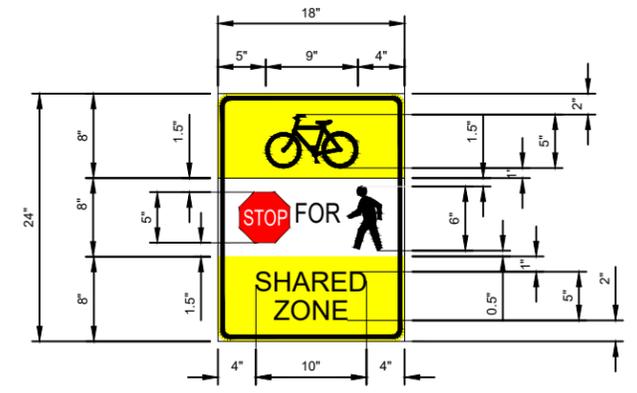


- ① CENTERLINE OF CROSSWALK TO BE LOCATED AT CENTERLINE OF PEDESTRIAN RAMPS
- ② CENTERLINE OF CROSSWALK TO BE LOCATED IN THE CENTER OF THE SHARED USE PATH

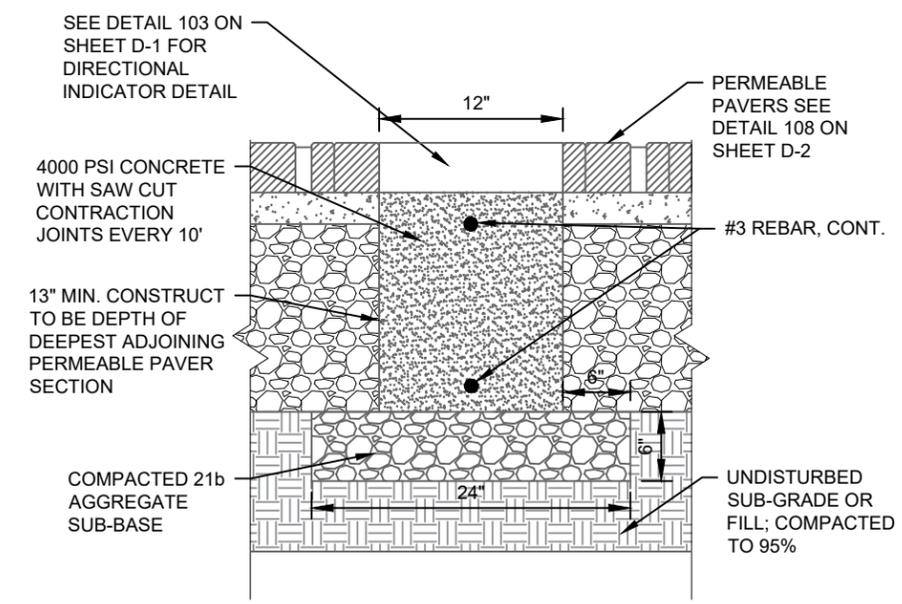
107 SHARED USE PATH CROSSING DETAIL
SCALE: N.T.S.



108 PERMEABLE PAVERS SECTION
SCALE: N.T.S.



110 CUSTOM SHARED ZONE SIGN - 24" X 18"
SCALE: N.T.S.

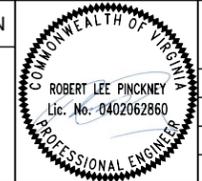


109 CONCRETE STRIP
SCALE: N.T.S.

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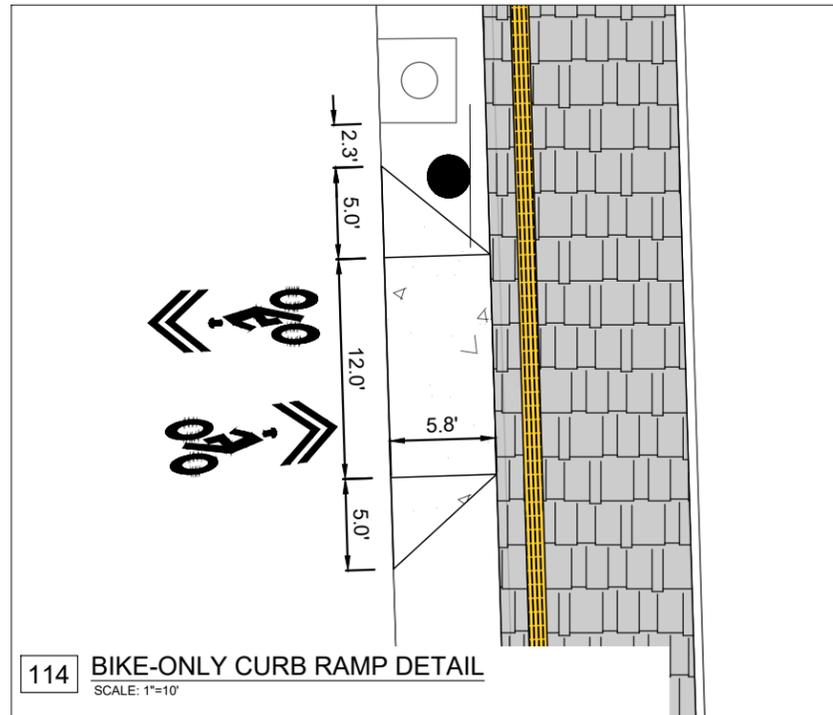
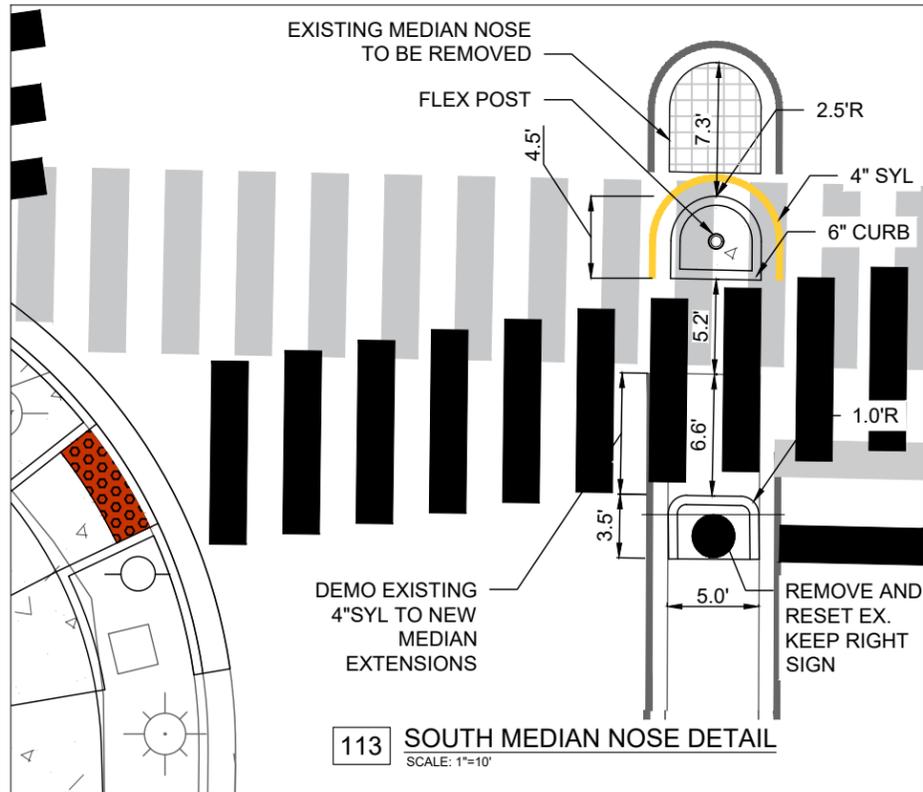
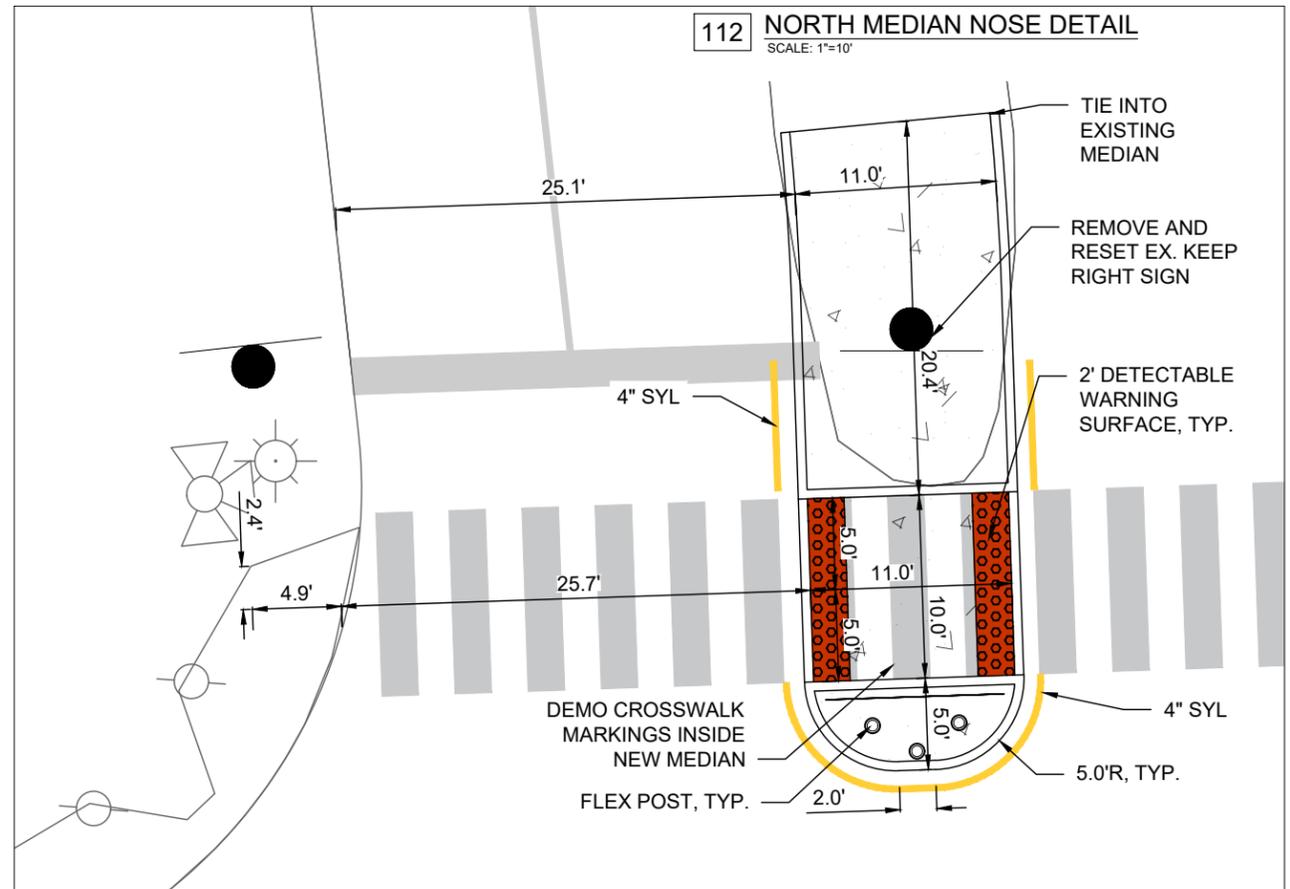
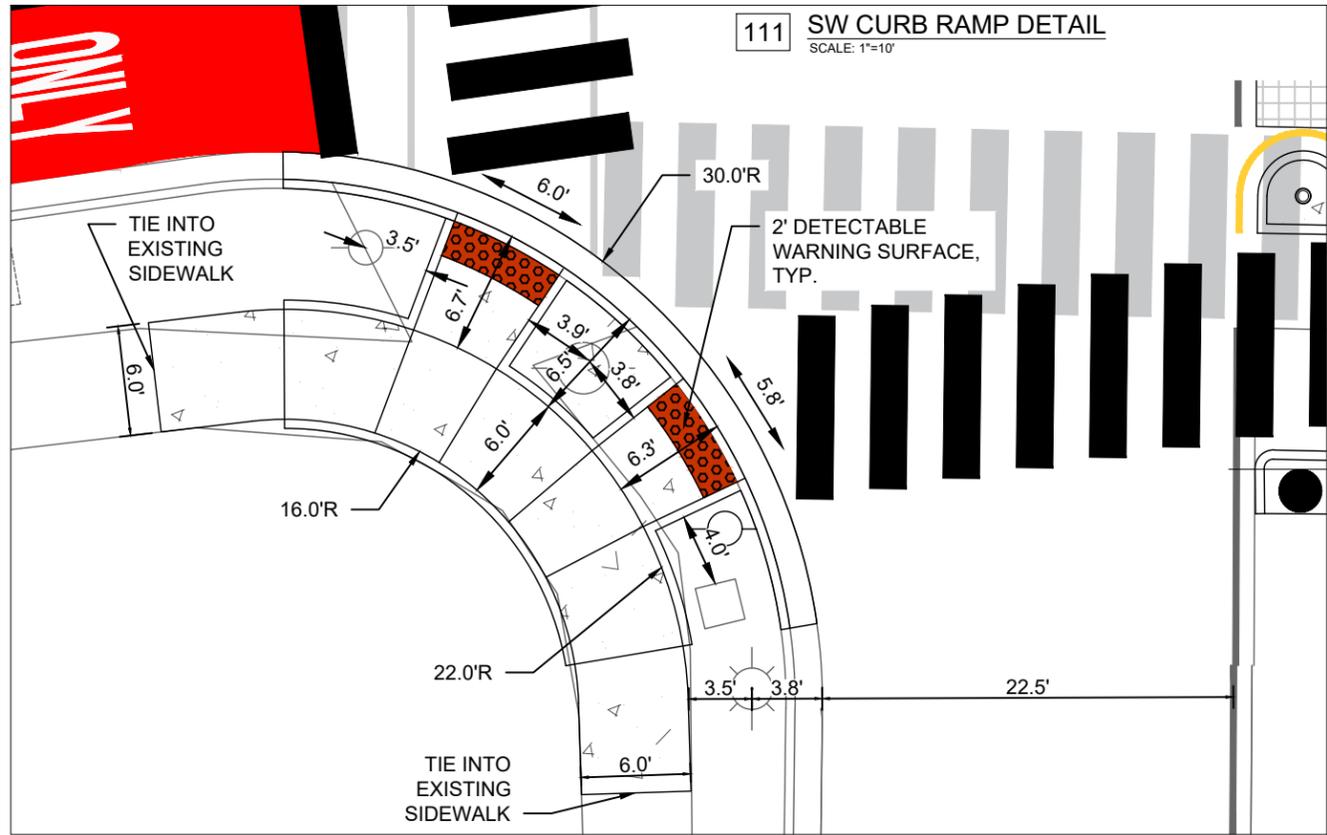


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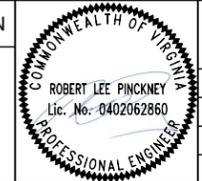
D-2 ADDITIONAL DETAILS

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	D-2
SHEET NO.	6 OF 7



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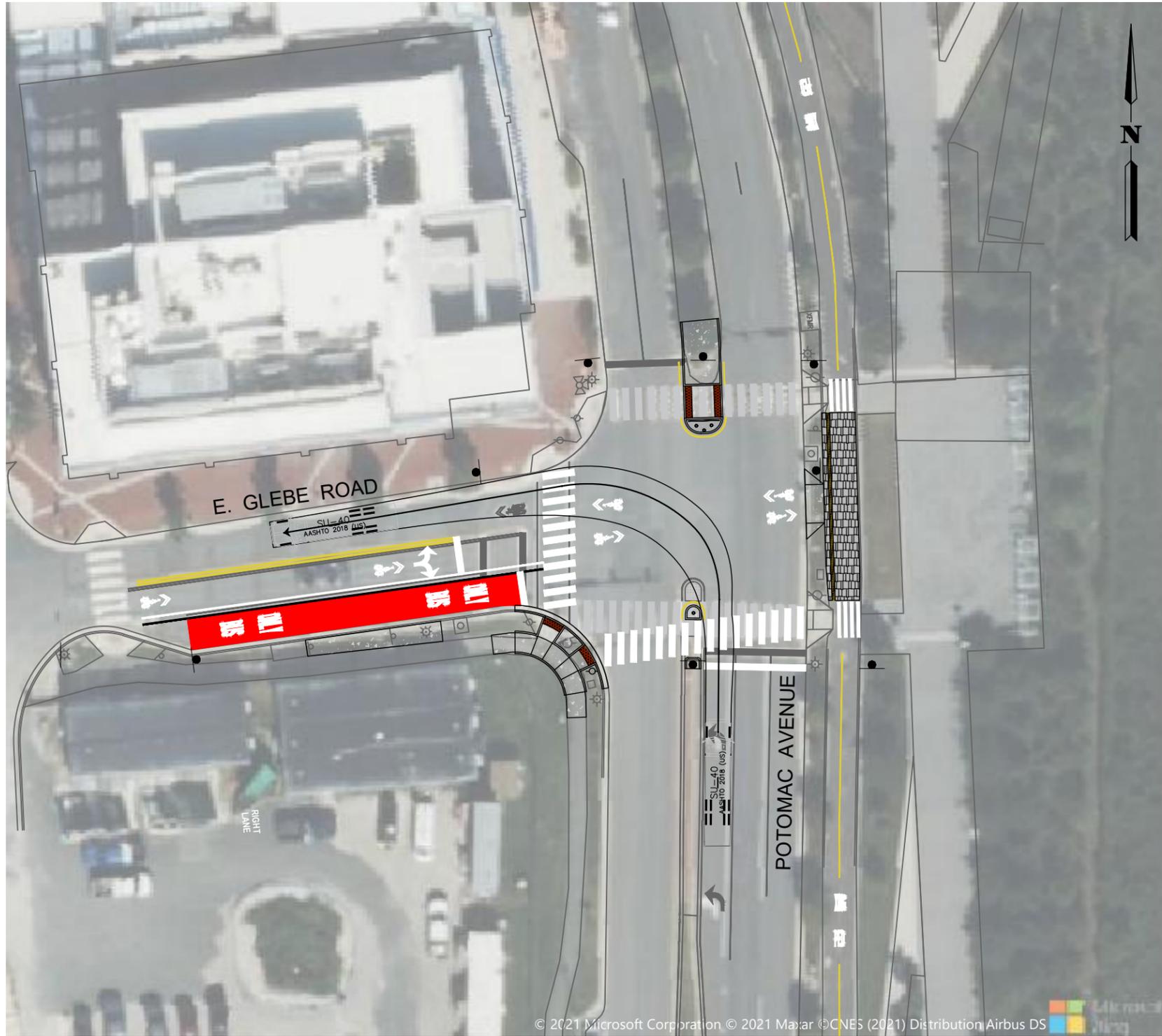


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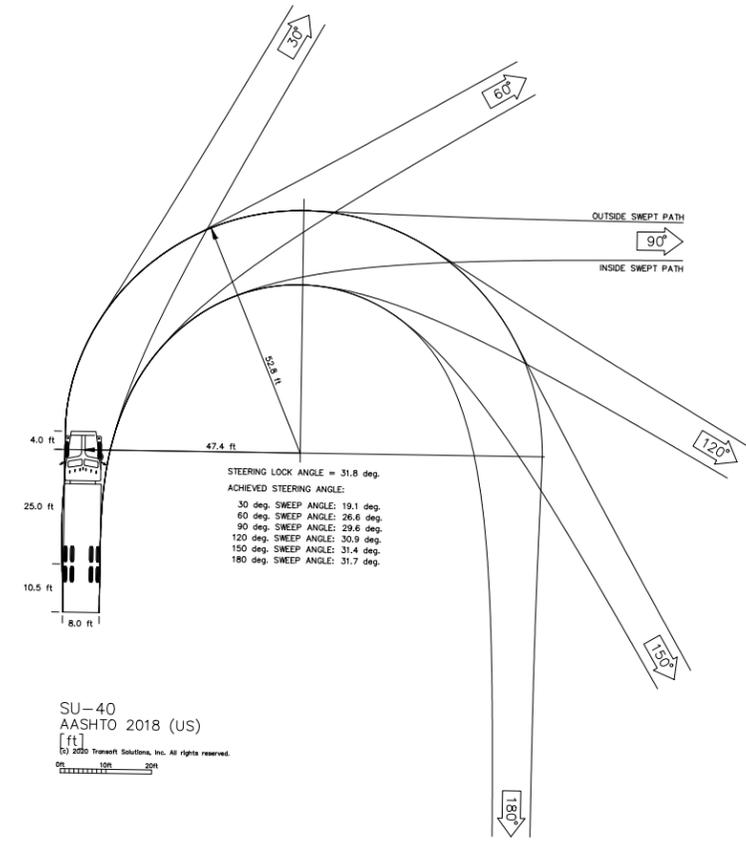
POTOMAC AVENUE & GLEBE ROAD INTERSECTION SAFETY IMPROVEMENTS
 CITY OF ALEXANDRIA, VA

CIVIL
D-3 ADDITIONAL DETAILS

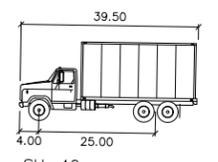
PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	D-3
SHEET NO.	7 OF 7



NOT TO SCALE



SU-40
 AASHTO 2018 (US)
 [ft]
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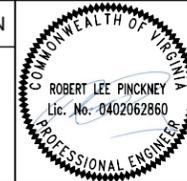
SU-40
 feet
 Width : 8.00
 Track : 8.00
 Lock to Lock Time : 6.0
 Steering Angle : 31.8

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PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA, LICENSE NO. 0402062860, EXPIRATION DATE: 11-30-22.



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DSGN	MMG	NO.	DATE
DR	SRL		
CHK	ECG		
APVD	RLP		
		REVISION	BY
			APVD

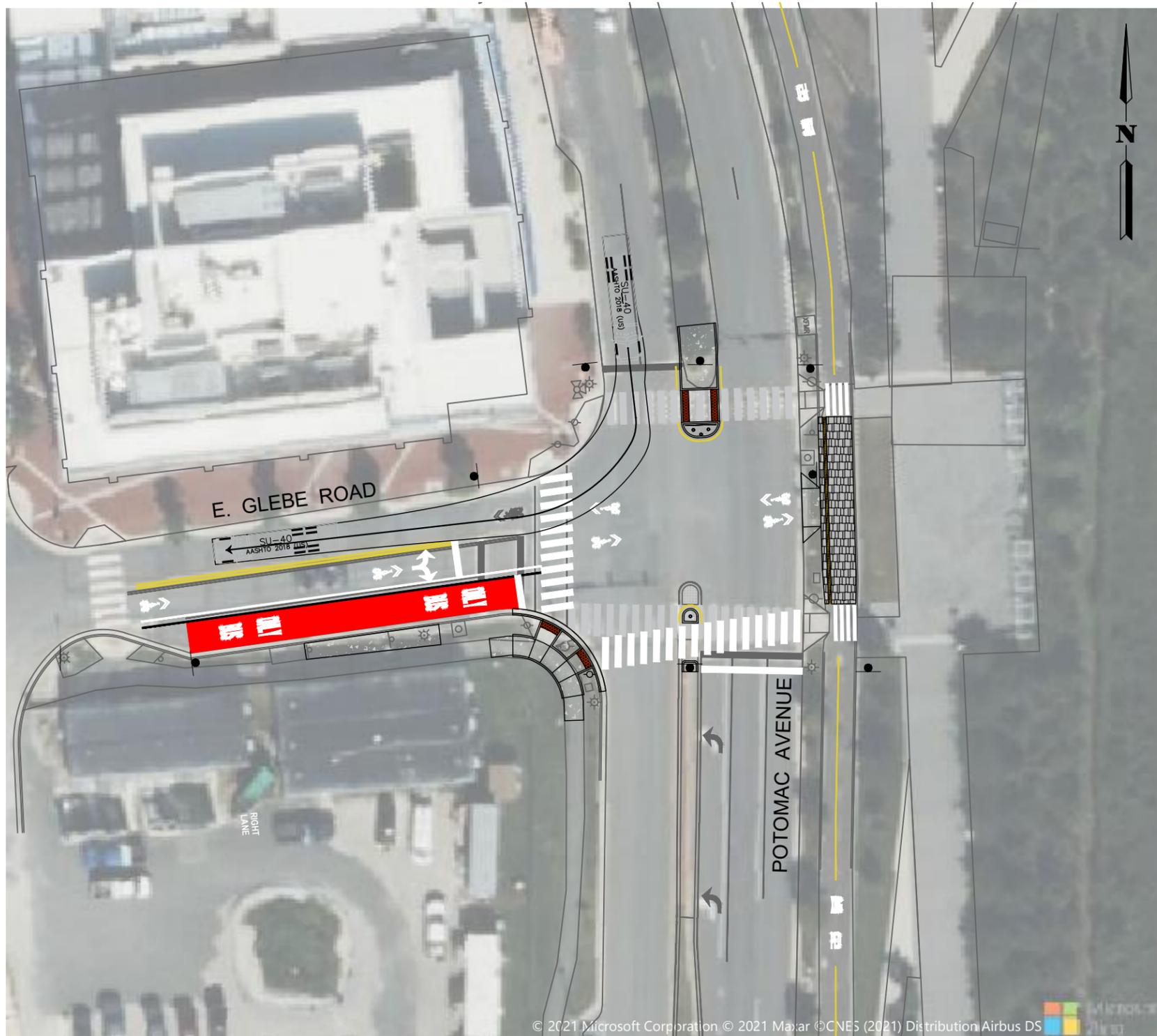
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 CITY OF ALEXANDRIA, VA

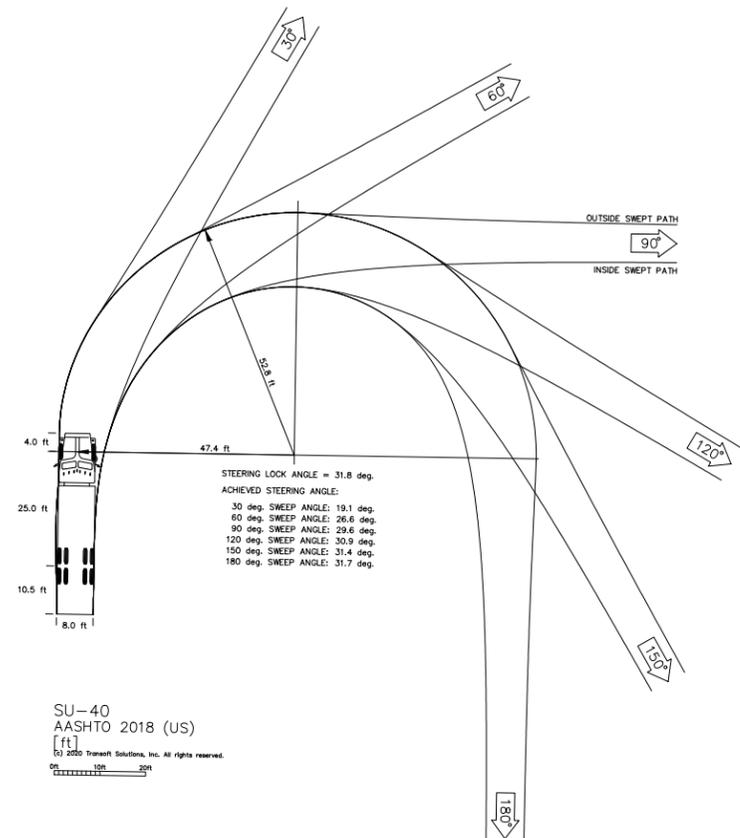
AUTOTURN EXHIBIT SU-40

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	EX-1
SHEET NO.	1

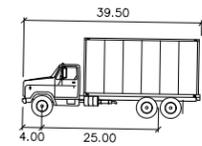


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NOT TO SCALE



SU-40
 AASHTO 2018 (US)
 [ft]
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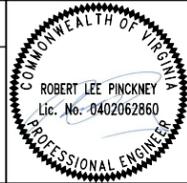


SU-40
 feet
 Width : 8.00
 Track : 8.00
 Lock to Lock Time : 6.0
 Steering Angle : 31.8

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H:\50000\50827_P_Potomac Yard Safety Improvements\PRODUCTION\CAD\PL\50827_AUTOTURN EXHIBITS.dwg Friday, August 5, 2022 3:58:00 PM

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DR	SRL		
CHK	ECG		
APVD	RLP		
		REVISION	BY
			APVD

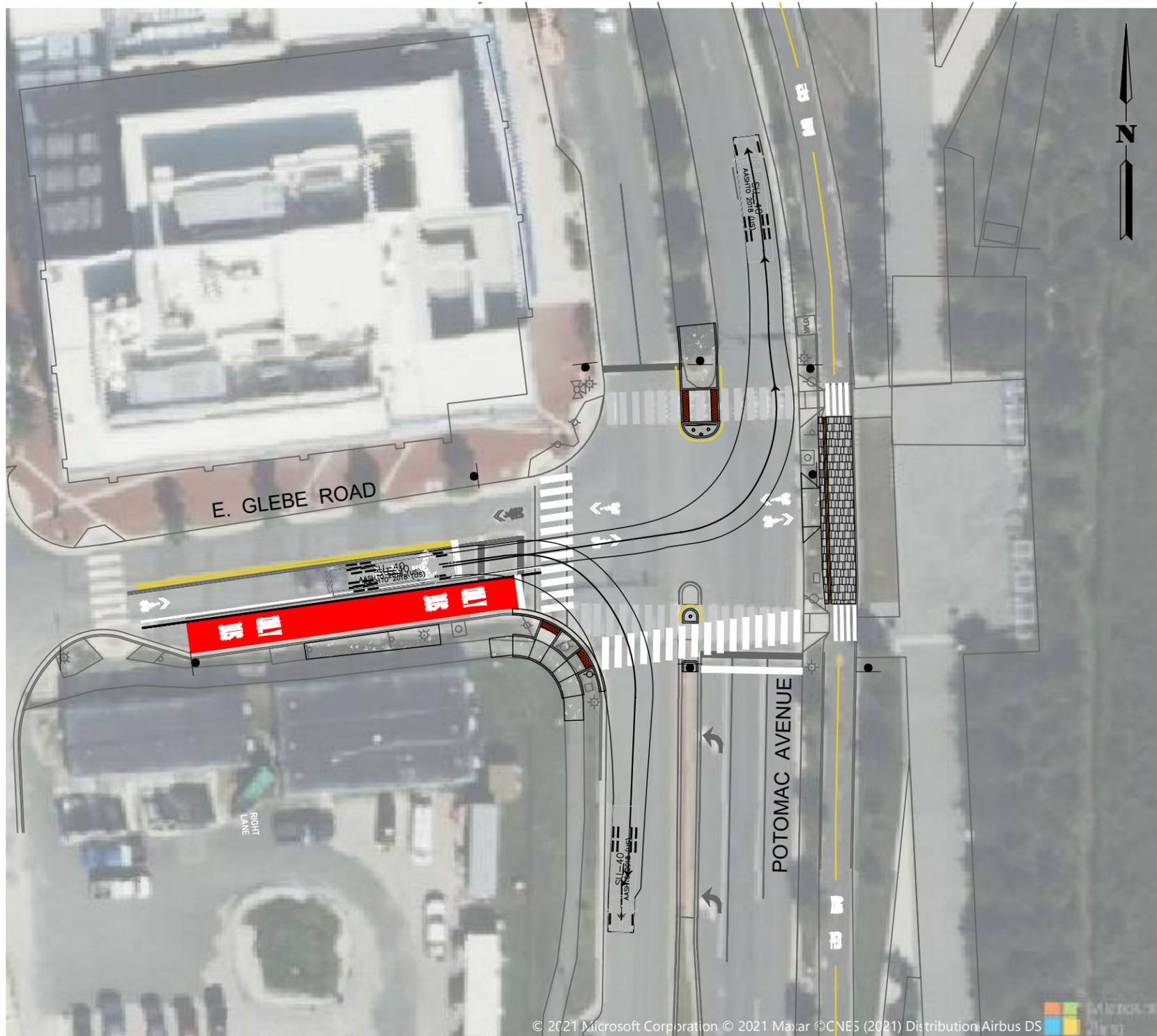
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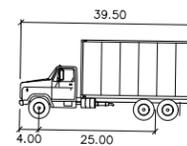
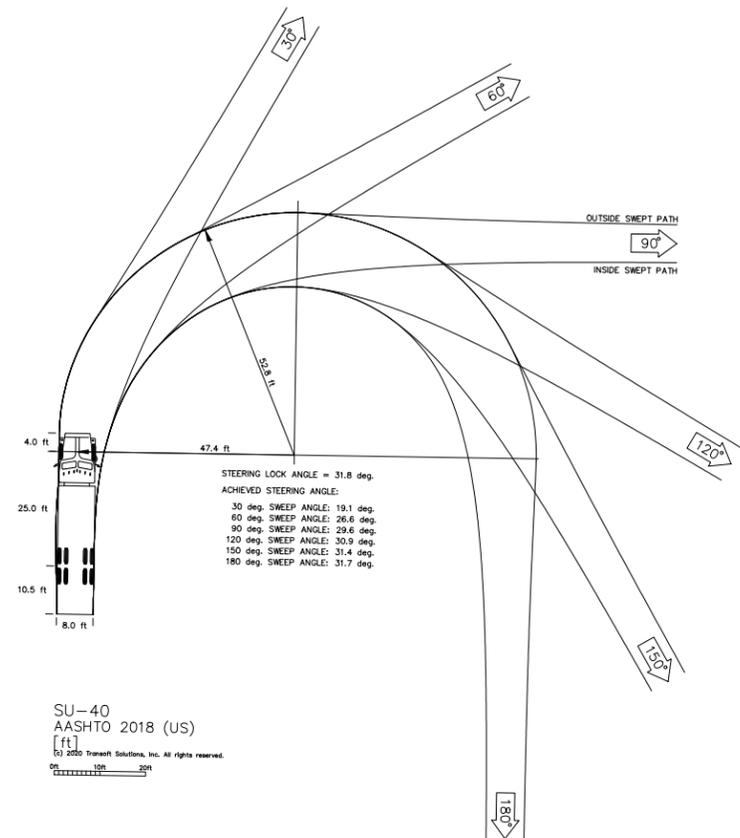
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 CITY OF ALEXANDRIA, VA

AUTOTURN EXHIBIT SU-40

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	EX-2
SHEET NO.	2



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SU-40

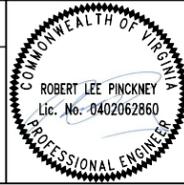
	feet
Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8

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DR	SRL					
CHK	ECG					
APVD	RLP					

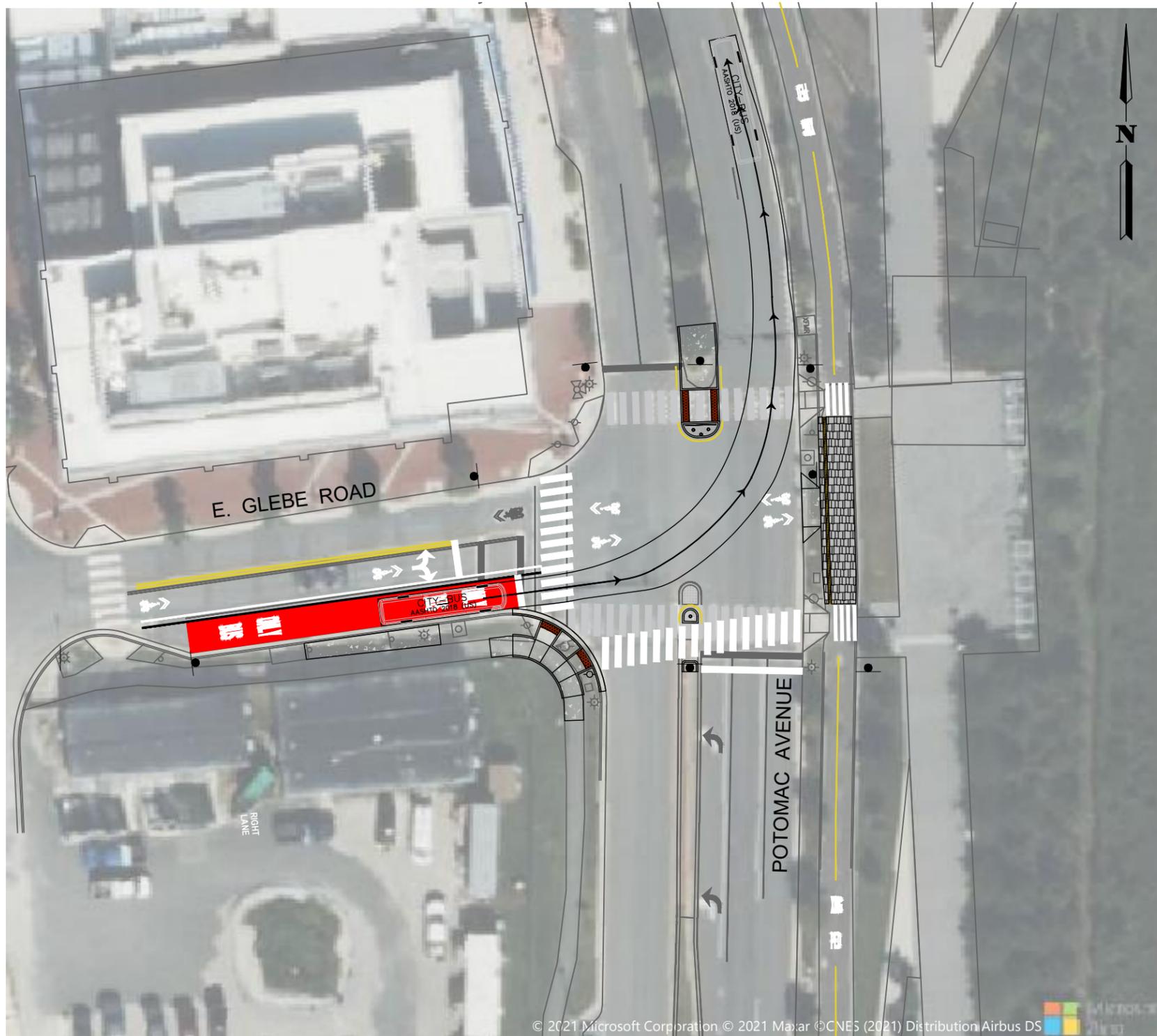
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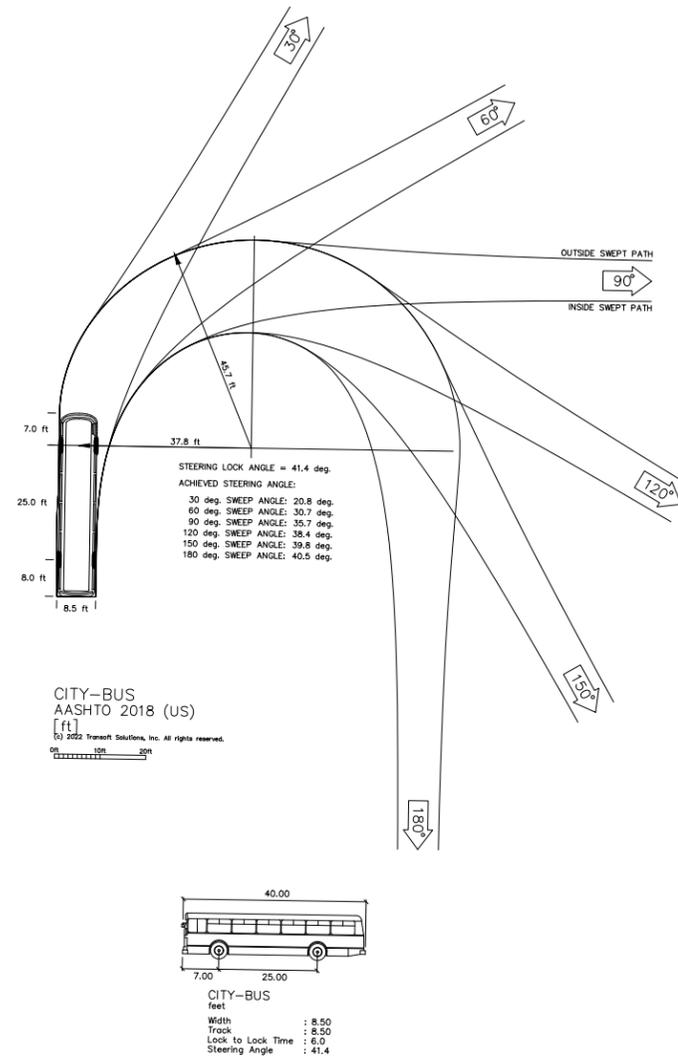
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AUTOTURN EXHIBIT SU-40

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	EX-3
SHEET NO.	3



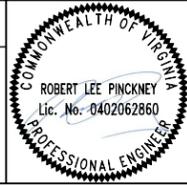
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CHK	ECG		
APVD	RLP		
		REVISION	BY APVD

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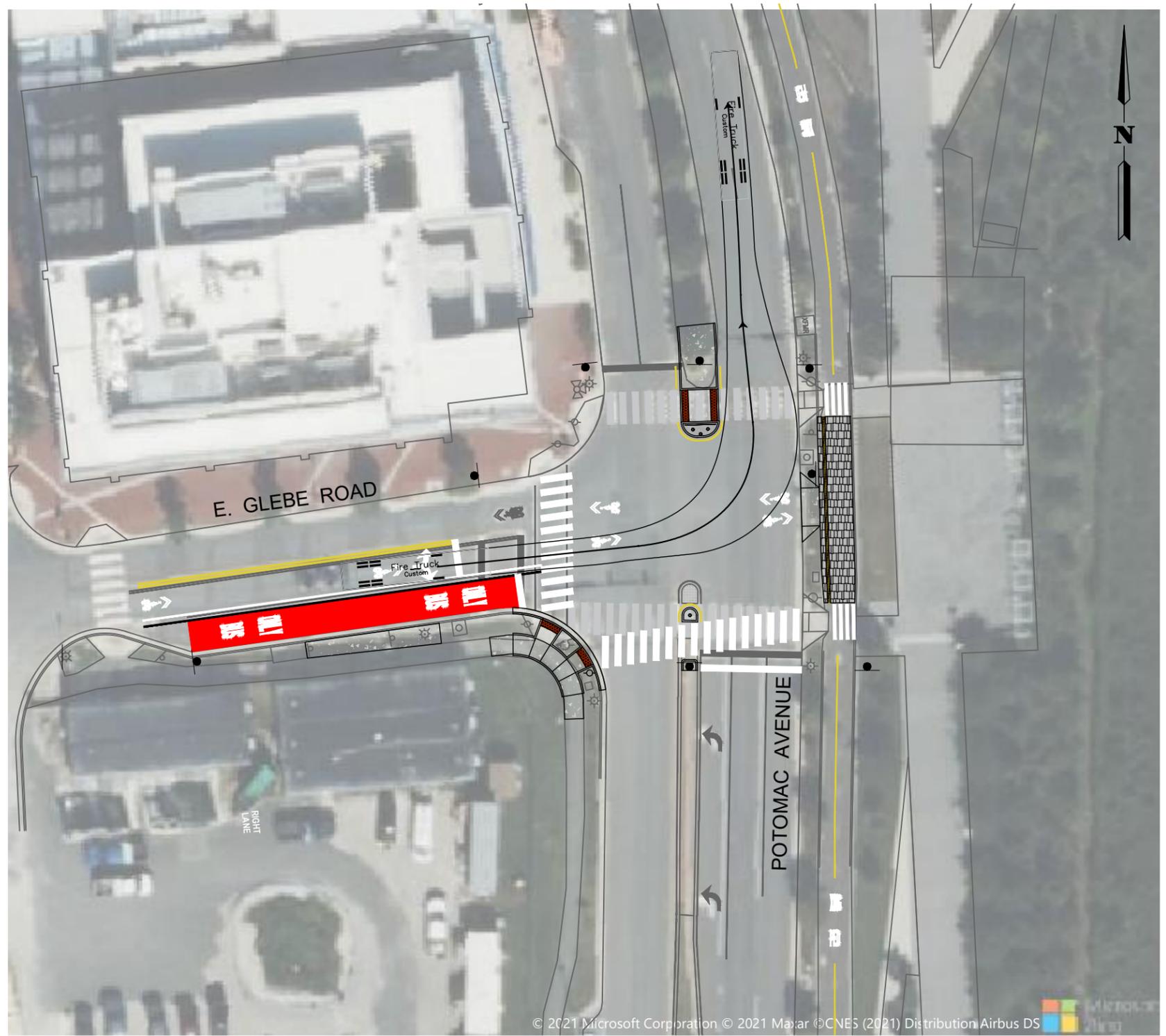
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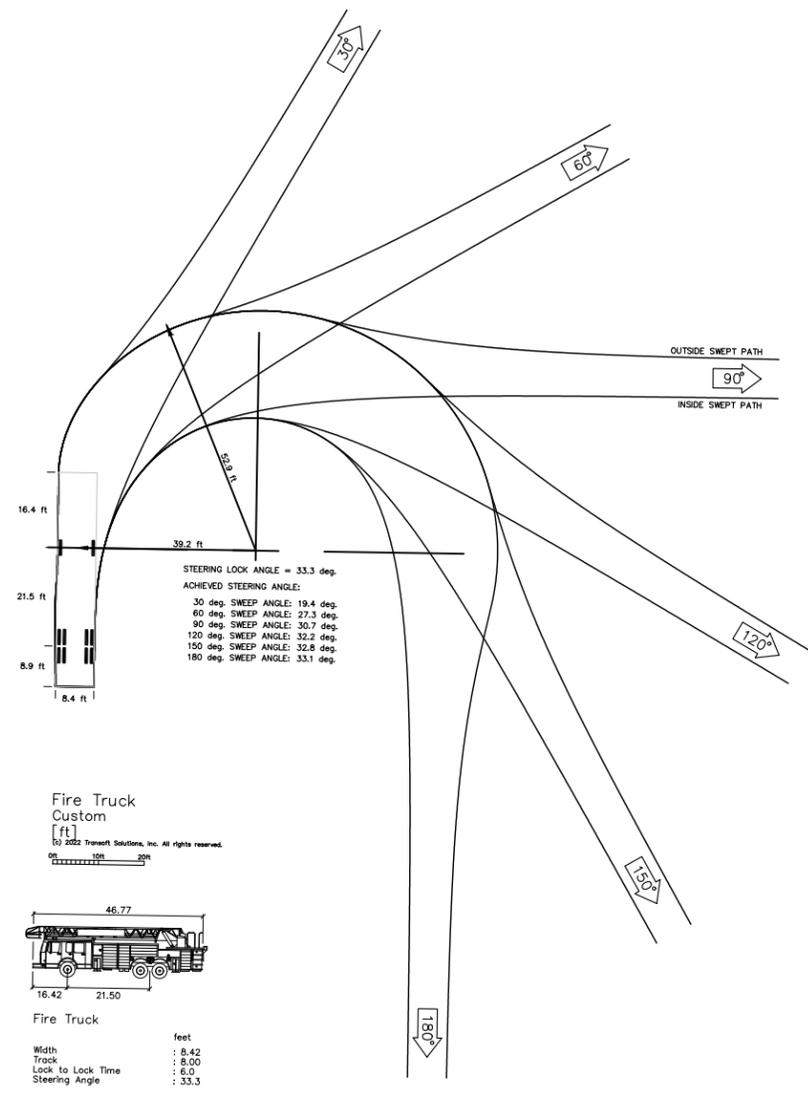
AUTOTURN EXHIBIT CITY-BUS

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	EX-4
SHEET NO.	4

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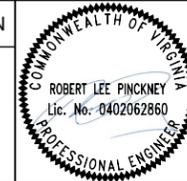


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APVD	RLP		
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AUTOTURN EXHIBIT FIRE TRUCK

PROJECT NO.	50827
DATE	08/05/2022
DRAWING NO.	EX-5
SHEET NO.	5