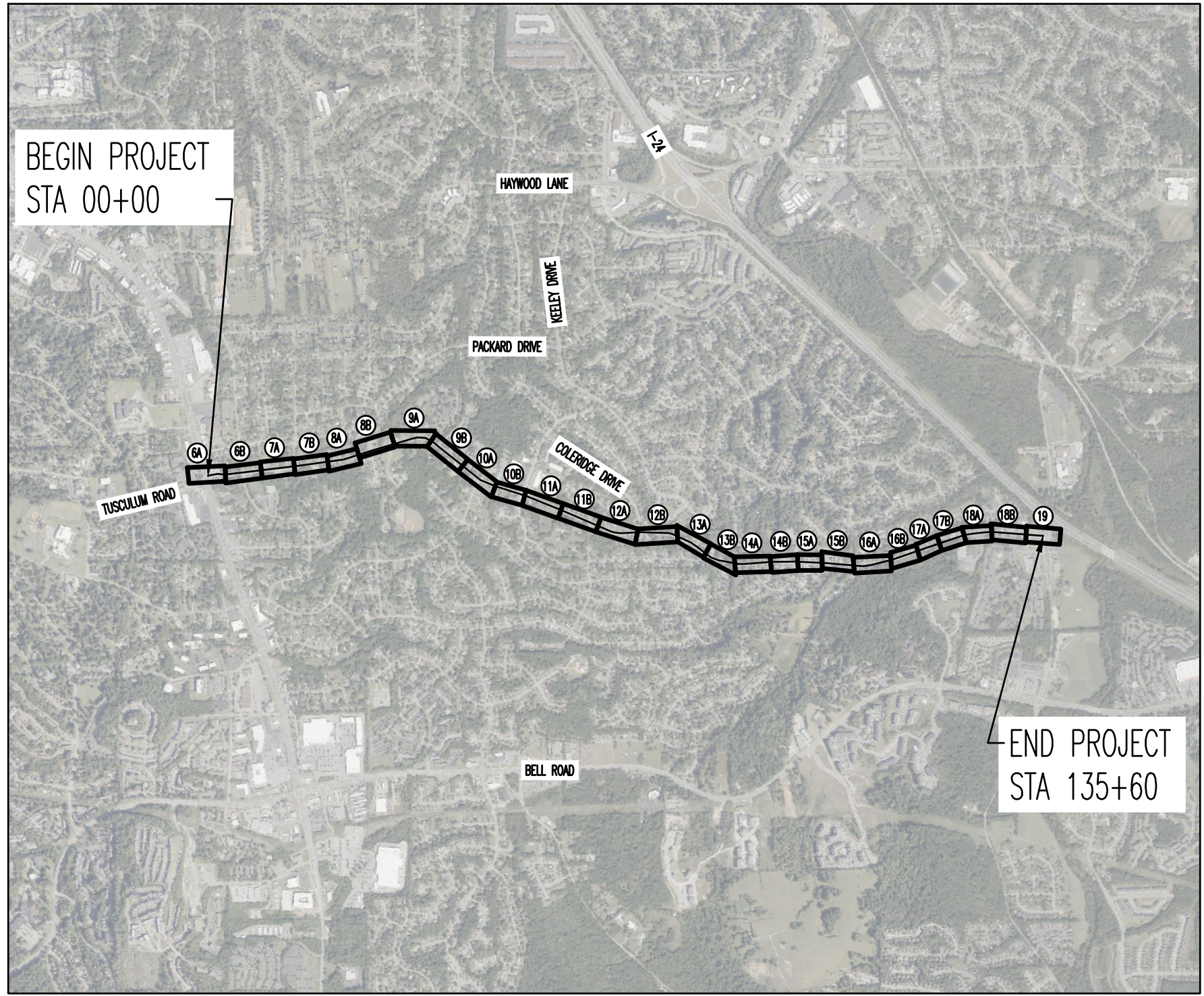
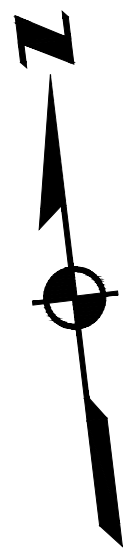


METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE

TUSCULUM ROAD BIKEWAY IMPROVEMENTS
(APPROX. 2.57 L.M.)
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD
JUNE 2025



LOCATION MAP:
SCALE: 1"=2000'



DRAWING INDEX

- 1. COVER SHEET
- 2. DETAILS
- 3. DETAILS
- 4. DETAILS
- 5. SIGN SCHEDULE
- 6. PROPOSED LAYOUT
- 7. PROPOSED LAYOUT
- 8. PROPOSED LAYOUT
- 9. PROPOSED LAYOUT
- 10. PROPOSED LAYOUT
- 11. PROPOSED LAYOUT
- 12. PROPOSED LAYOUT
- 13. PROPOSED LAYOUT
- 14. PROPOSED LAYOUT
- 15. PROPOSED LAYOUT
- 16. PROPOSED LAYOUT
- 17. PROPOSED LAYOUT
- 18. PROPOSED LAYOUT
- 19. PROPOSED LAYOUT

COUNCIL DISTRICT: 27
COUNCIL MEMBER: ROBERT NASH

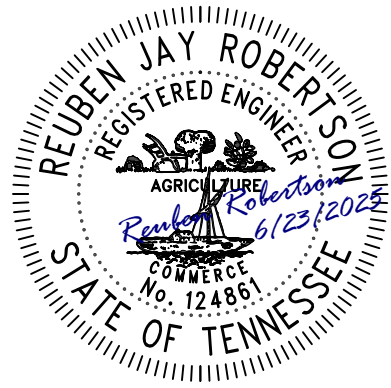
COUNCIL DISTRICT: 33
COUNCIL MEMBER: ANTOINETTE LEE



LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



PROJECT NUMBER: NDT420	SCALE: AS SHOWN
DATE: 6-2025	DESIGNED BY: JAD
DRAWN BY: JEP	

SHEET TITLE:

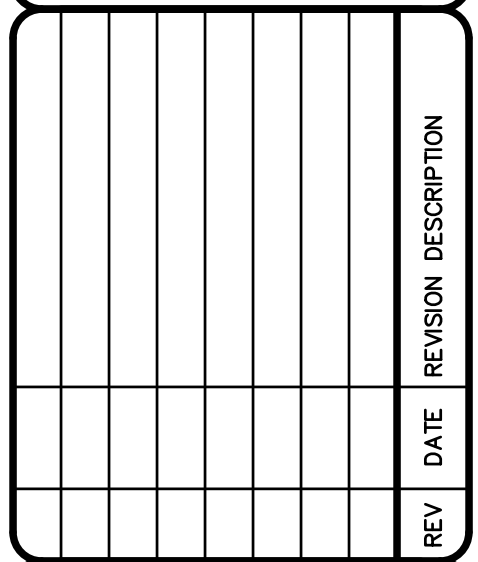
COVER SHEET

C:\TUSCULUM\RD\PH01_S\027_2025-21\DESIGN\DWG\TUSCULUM RD COVER.DWG, 6/12/2025 1:25 PM, JAMES PROCTOR



LDA ENGINEERING
402 BNA DRIVE SUITE 403
NASHVILLE, TENNESSEE 37217
TELEPHONE: 877-754-8254
FAX: 865-573-1352

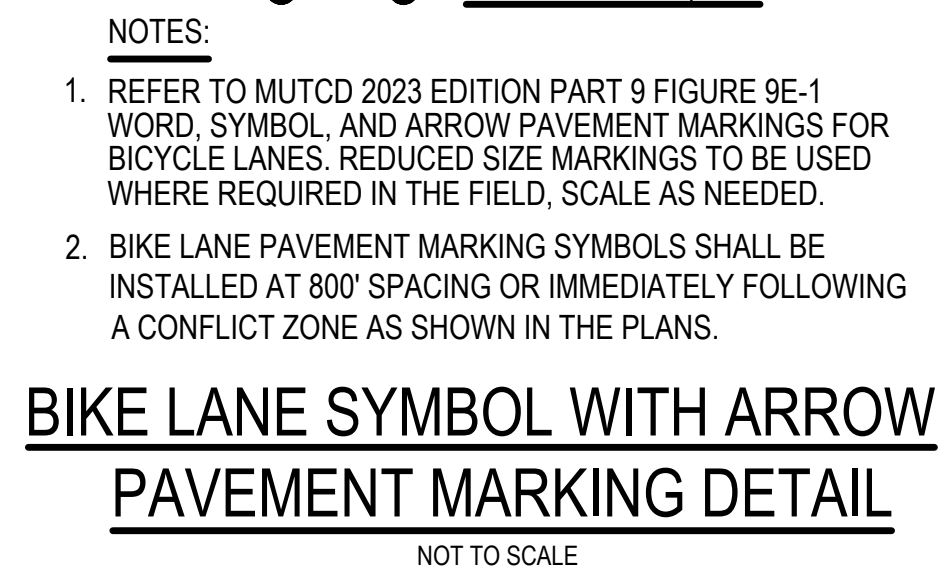
LDA ENGINEERING



- METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD

REIDEN JAY ROBERTSON
REGISTERED ENGINEER
AGRICULTURE
No. 124861
STATE OF TENNESSEE
COMMERCE

Reiden Robertson
6/23/2024

[illegible]

- **SPECIAL NOTES:**
- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (2023 MUTCD).
 - CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ROADWAY MARKINGS AND SIGNS.
 - BIKEWAY SIGNAGE SHALL BE PLACED PER DIRECTION OF THE FIELD ENGINEER.
 - SHARROW AND BIKE LANE PAVEMENT MARKING SHALL BE PLACED PER DIRECTION OF METRO REPRESENTATIVE.
 - SHARROW AND BIKE LANE PAVEMENT MARKING SHALL NOT BE PLACED IN FRONT OF DRIVEWAYS.
 - BIKEWAY PROJECTS SHALL COORDINATE WITH METRO TRAFFIC DEPARTMENT.

Diagram illustrating the BIKE LANE BUFFER PAVEMENT MARKINGS. The lane is 36" wide and includes a 6" SSWL (Shoulder Width of Wheel Lane) on the left and a 6" SSWL on the right. The lane is marked with flexible delineators at 20' spacing and cycle lane delineators at 10' spacing (see note). The lane is also marked with a 45° angle. The lane is labeled BIKE LANE and NOT TO SCALE.

- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ROADWAY MARKINGS AND SIGNS.
- BIKEWAY SIGNAGE SHALL BE PLACED PER DIRECTION OF THE FIELD ENGINEER.
- SHARROW AND BIKE LANE PAVEMENT MARKING SHALL BE PLACED PER DIRECTION OF METRO REPRESENTATIVE.
- SHARROW AND BIKE LANE PAVEMENT MARKING SHALL NOT BE PLACED IN FRONT OF DRIVEWAYS.
- BIKEWAY PROJECTS SHALL COORDINATE WITH METRO TRAFFIC DEPARTMENT

The diagram illustrates a cross-section of a road with the following components from left to right:

- TRAVEL LANE:** The leftmost section, containing a 'TRAVEL LANE PAVEMENT MARKING'.
- BUFFER:** A section between the travel lane and the bike lane.
- BIKE LANE:** A section between the buffer and the gutter.
- GUTTER:** The rightmost section, adjacent to the 'FACE OF CURB'.

Key features and labels include:

- EDGE OF PAVEMENT:** Indicated by a vertical line at the boundary of the travel lane and buffer.
- FACE OF CURB:** Indicated by a vertical line at the right edge of the gutter.
- NOTE:** LATERAL PAVEMENT MARKING DIMENSIONS ARE TYPICALLY MEASURED TO AN ADJACENT EDGE OF PAVEMENT OR TO THE CENTERLINE OF AN ADJACENT PAVEMENT MARKING AS SHOWN IN THE PLANS.

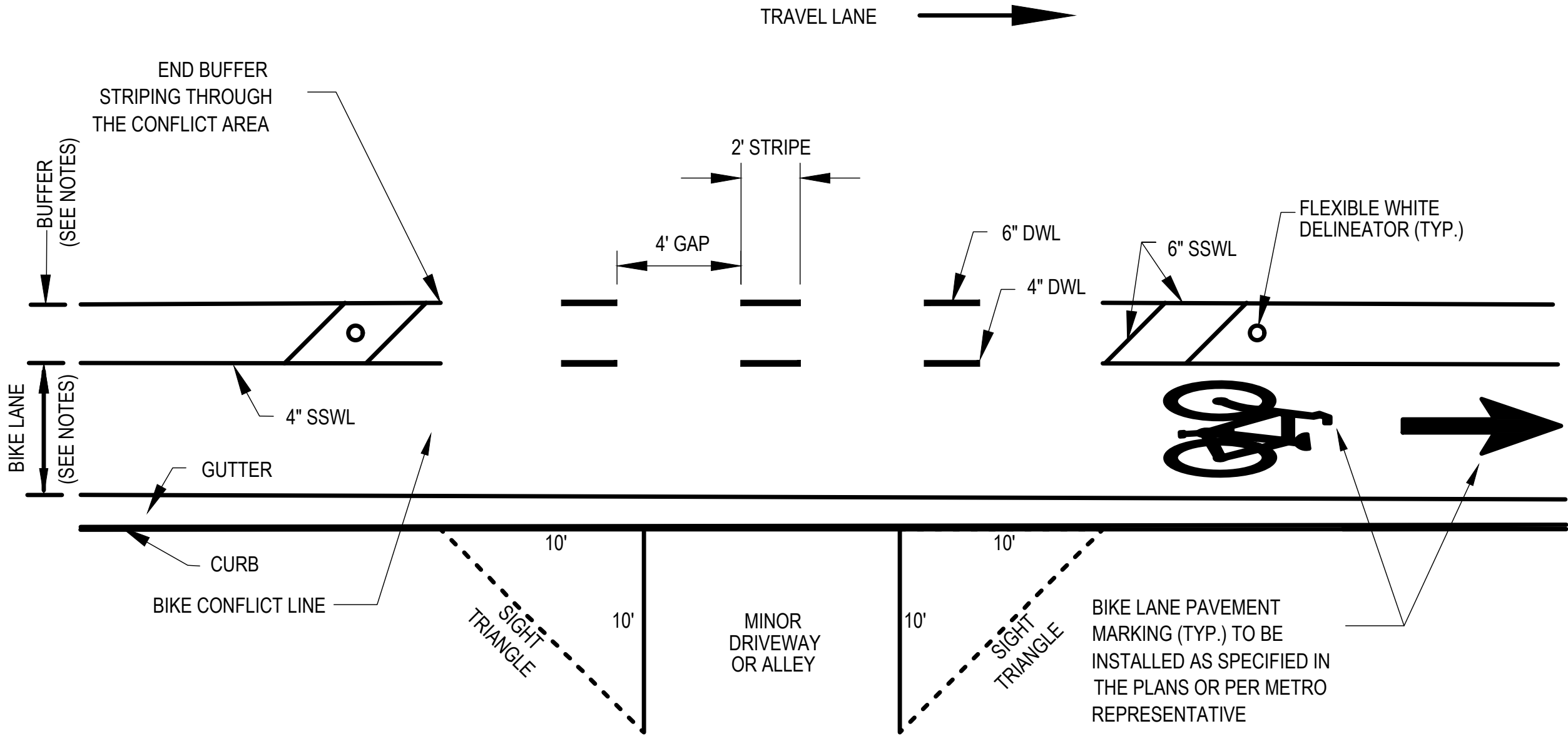
TYPICAL LATERAL STRIPING LAYOUT

NOT TO SCALE

[illegible]

C:\TUSCULUM\RD\PH01_S\027_2023-21\DESIGN\040\01 SHEET FILES\TUSCULUM RD DETAILS.DWG, 6/12/2025, 1:25 PM, JAMES PICKERING

DETAIL NO. 6

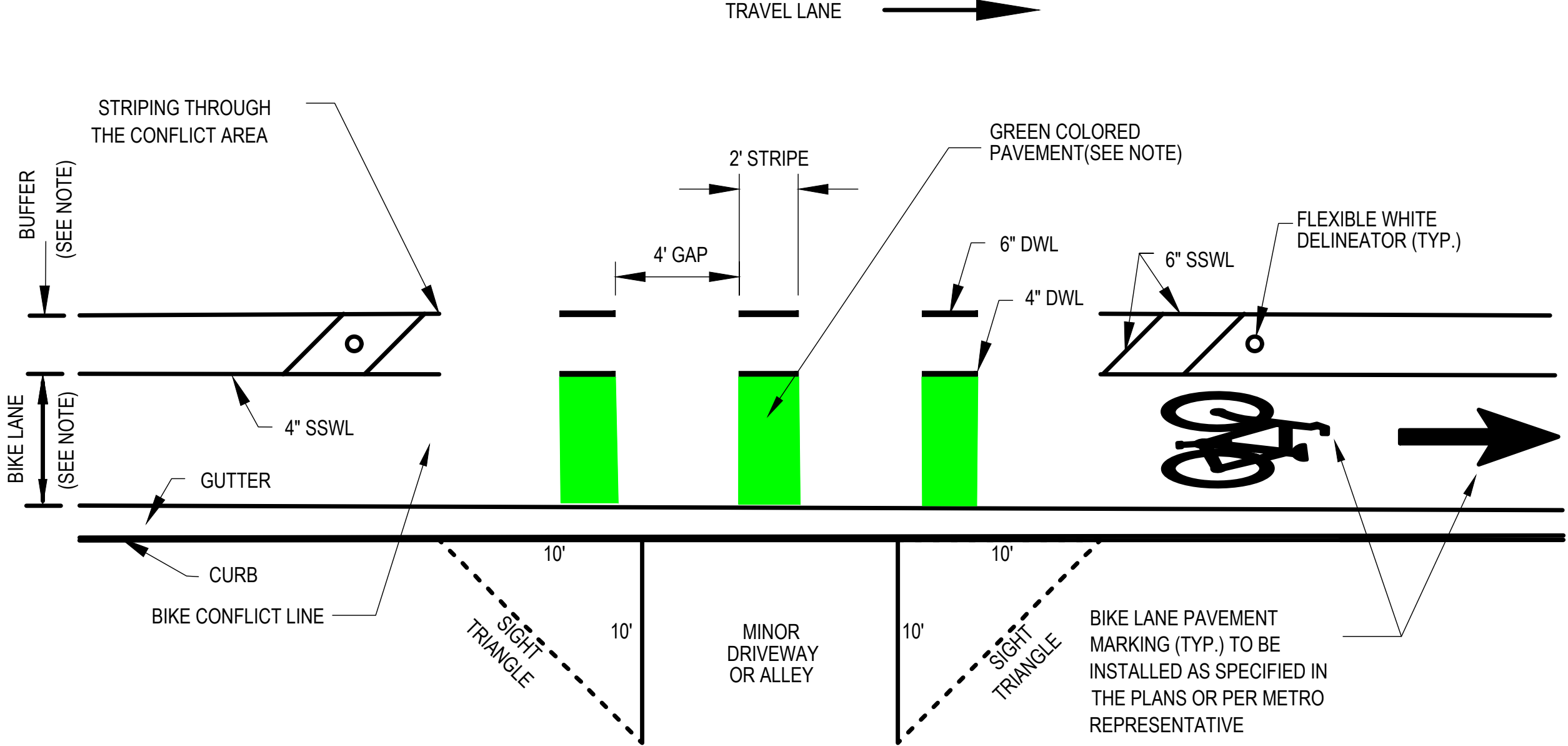


- NOTES:
- BIKE LANE WIDTH AND BUFFER WIDTH SPECIFIED ON THE PLANS. BIKE LANE WIDTH DIMENSION SHOWN ON THE PLANS INCLUDES THE EXIST. GUTTER PAN IF APPLICABLE.
 - 36" WHITE FLEXIBLE DELINEATOR POSTS TO BE INSTALLED WITHIN THE BUFFER AT 20' SPACING CONTRACTOR TO COORDINATE WITH MPW PRIOR TO INSTALLATION.

**SIGHT TRIANGLE & BIKE CONFLICT LINE
(BCL) DETAIL AT DRIVEWAYS/ALLEYS**

NOT TO SCALE

DETAIL NO. 6 ALT.

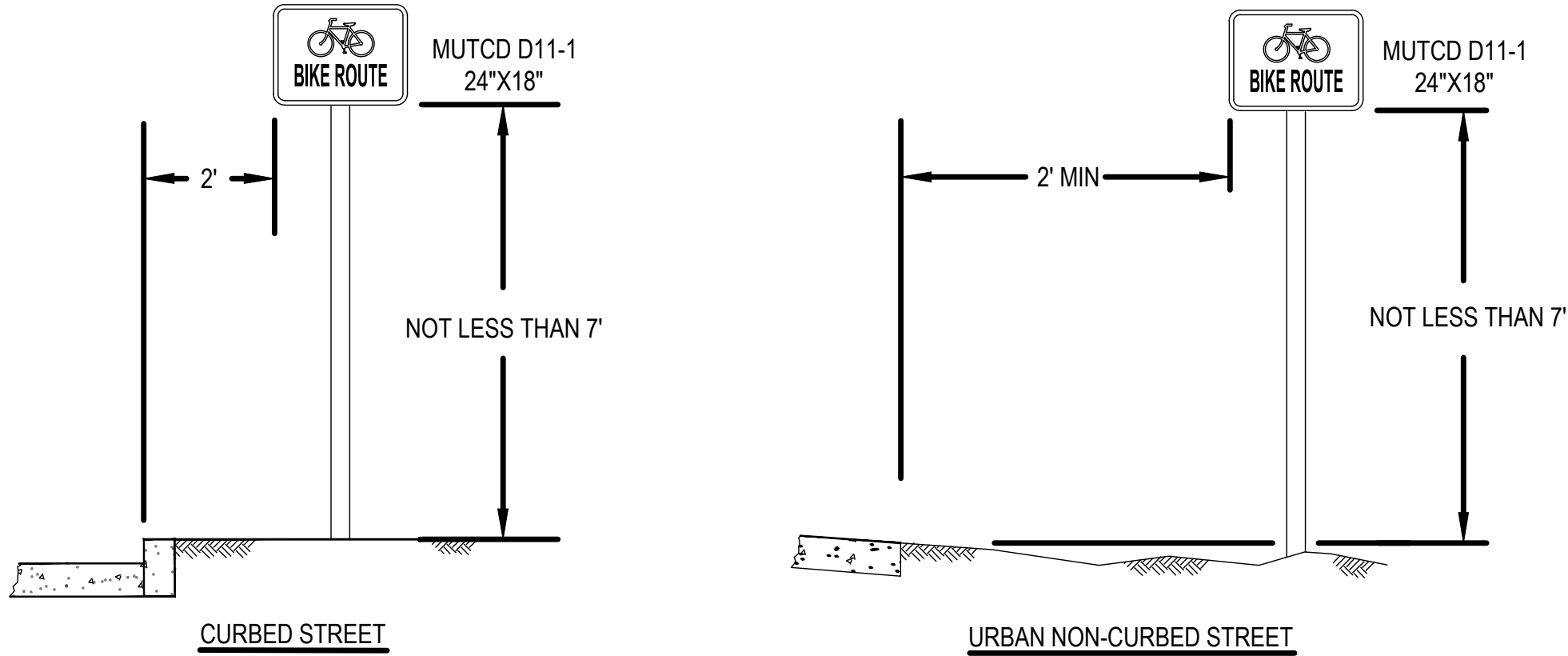


- NOTES:
1. GREEN COLORED PAVEMENT IS NOT REQUIRED AT DRIVEWAY LOCATIONS BUT MAY BE INSTALLED AS NEEDED (SEE PLANS)
 2. GREEN COLORED PAVEMENT SHALL FILL IN AREA NEXT TO DOTTED LONGITUDINAL LINE ACROSS CONFLICT ZONE (2023 MUTCD, SECTION 3H.06)

**SIGHT TRIANGLE & BIKE CONFLICT LINE
(BCL) DETAIL AT DRIVEWAYS/ALLEYS**

NOT TO SCALE

DETAIL NO. 7



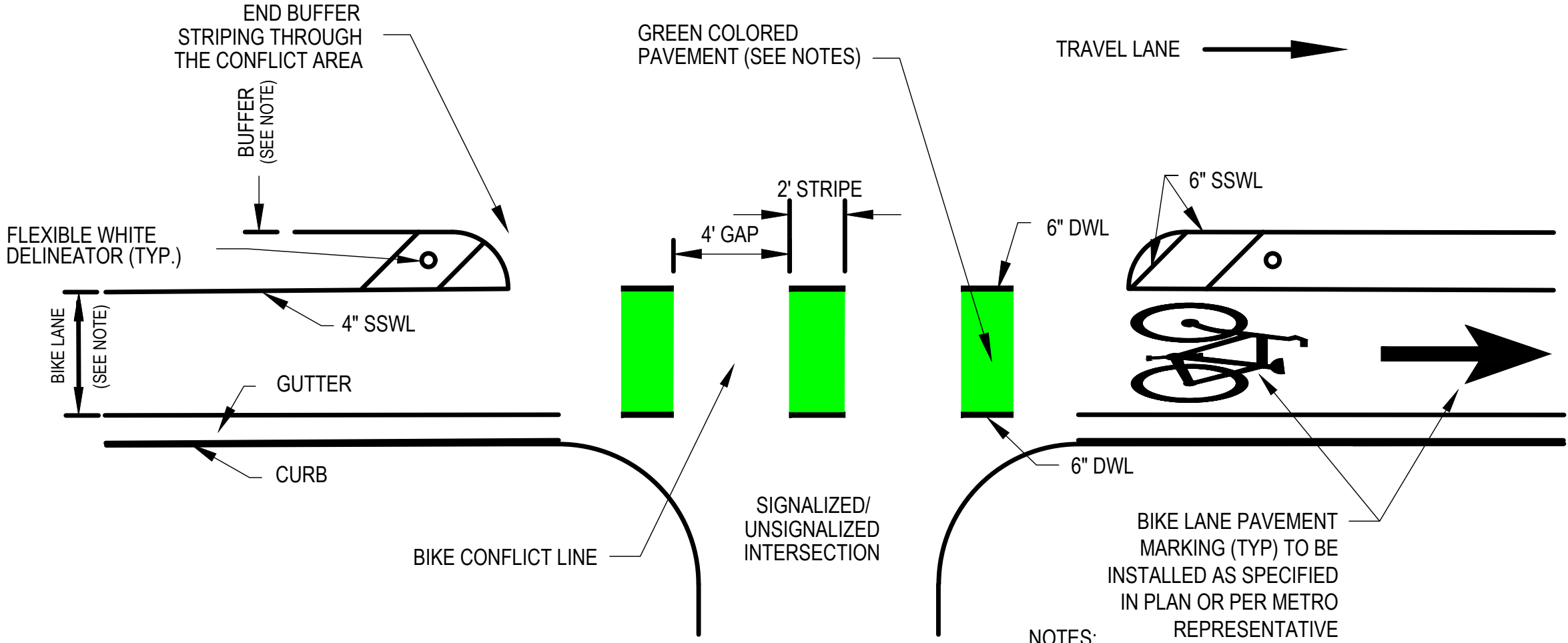
SIGN INSTALLATION NOTES:

1. ALL SIGNS SHALL BE INSTALLED IN THE APPROXIMATE LOCATIONS SHOWN ON PLAN SHEETS. ANY DEVIATION MUST BE APPROVED BY THE METROPOLITAN DEPARTMENT OF PUBLIC WORKS.
2. SIGNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2023 MUTCD), AND SHALL HAVE THE HEIGHT AND CLEARANCE SPECIFICATIONS SHOWN ON THIS SHEET.
3. ALL SIGNING EQUIPMENT AND INSTALLATION PROCEDURES SHALL COMPLY WITH THE T.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 713 - HIGHWAY SIGNING, AND WITH THE SPECIFICATIONS OF METROPOLITAN NASHVILLE AND DAVIDSON COUNTY.
4. IF A SECOND SIGN IS MOUNTED BELOW AN EXISTING SIGN, IT SHALL BE 7' ABOVE TOP OF CURB.

HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS

NOT TO SCALE

DETAIL NO. 8



- NOTES:
1. GREEN COLORED PAVEMENT SHALL BE REQUIRED AT ALL INTERSECTIONS.
 2. GREEN COLORED PAVEMENT SHALL FILL IN AREA NEXT TO DOTTED LONGITUDINAL LINE ACROSS CONFLICT ZONE (2023 MUTCD, SECTION 3H.06).

BIKE CONFLICT LINE (BCL) AT INTERSECTIONS

NOT TO SCALE

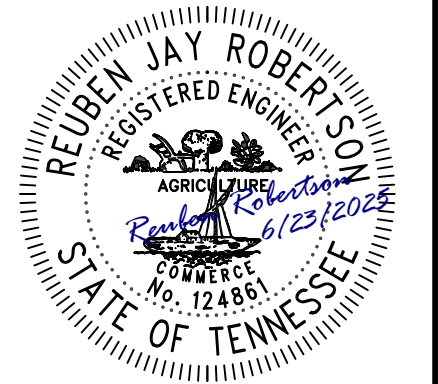
- NOTES:
- BIKE LANE WIDTH AND BUFFER WIDTH SPECIFIED ON THE PLANS. BIKE LANE WIDTH DIMENSION SHOWN ON THE PLANS INCLUDES THE EXIST. GUTTER PAN IF APPLICABLE.
 - 36" WHITE FLEXIBLE DELINEATOR POSTS TO BE INSTALLED WITHIN THE BUFFER AT 20' SPACING CONTRACTOR TO COORDINATE WITH MPW PRIOR TO INSTALLATION.



LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



PROJECT NUMBER:	NDT420
DATE:	6-2025
SCALE:	
DRAWN BY:	JEP
DESIGNED BY:	JAD

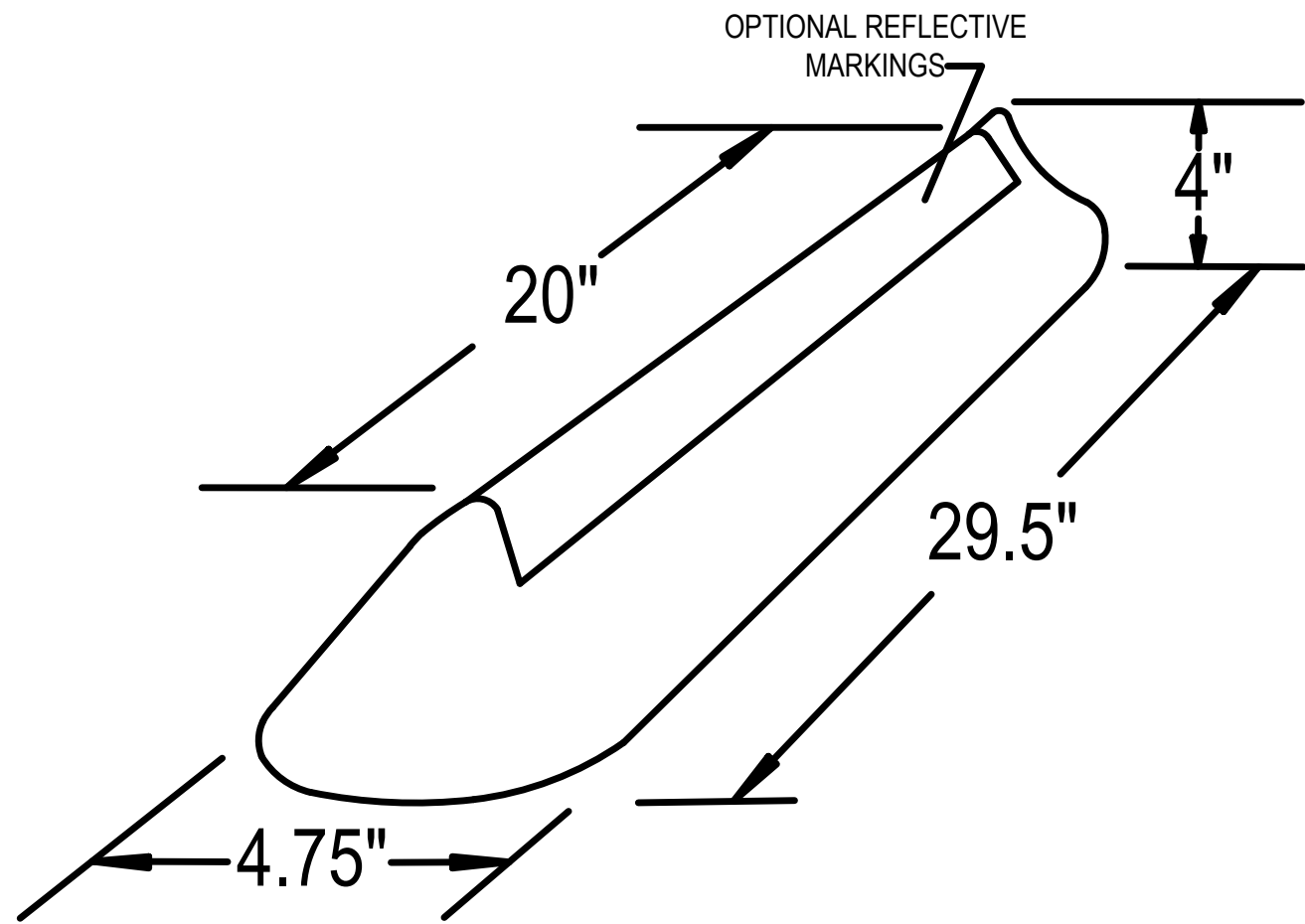
SHEET TITLE:

DETAILS

C:\TUSCULUM\PROJECTS\2023-21\DESIGN\CHD\SHEET FILES\TUSCULUM RD DETAILS.DWG, 6/12/2025, 2:25 PM, JAMES PICKERING

DETAIL NO. 9

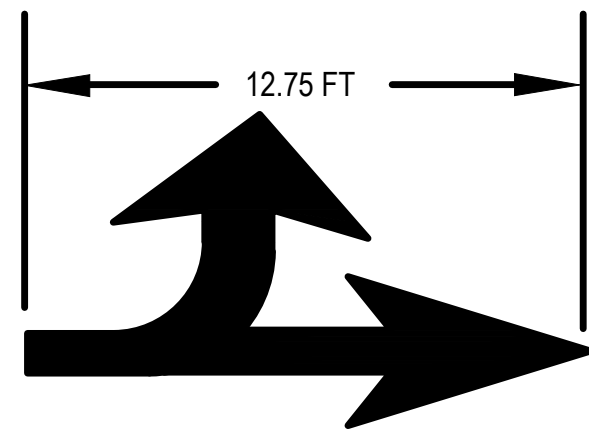
NOTE: CYCLE LANE DELINEATORS TO BE INSTALLED CENTERED BETWEEN CHANNELIZATION LINES AND FLEXIBLE DELINEATORS IN CENTER OF BUFFER SPACE (10' SPACING).



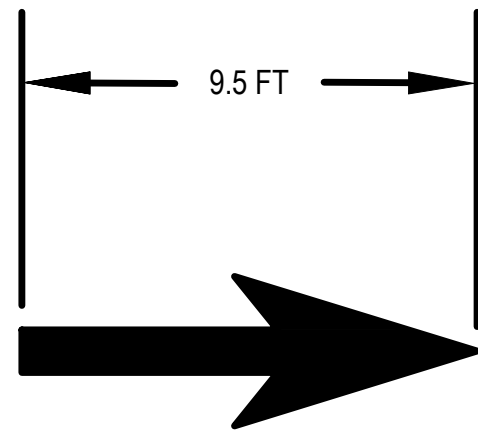
CYCLE LANE DELINEATOR
DETAIL
NOT TO SCALE

DETAIL NO. 10

A - STRAIGHT-TURN LANE ARROW

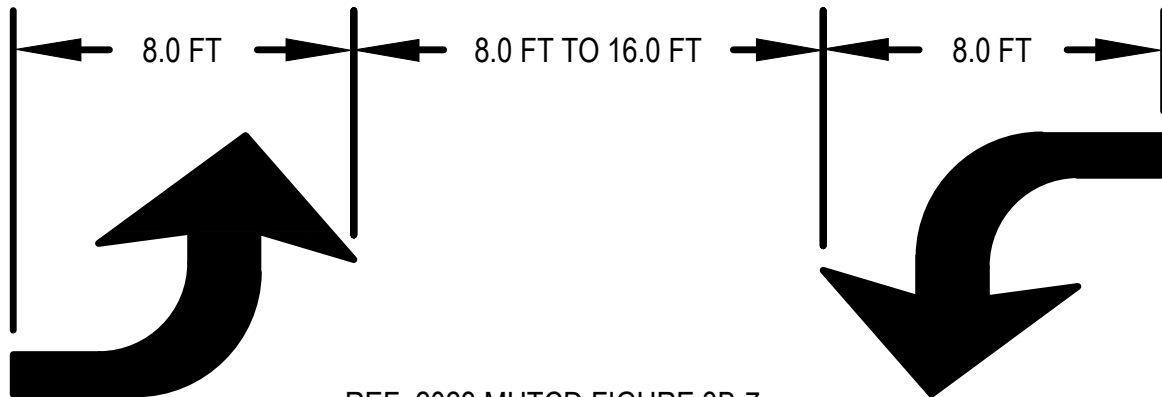


C - THROUGH LANE-USE ARROW



REF. 2023 MUTCD FIGURE 3B-21

B - TWO-WAY LEFT TURN LANE ARROW COMBINATION LAYOUT



REF. 2023 MUTCD FIGURE 3B-7

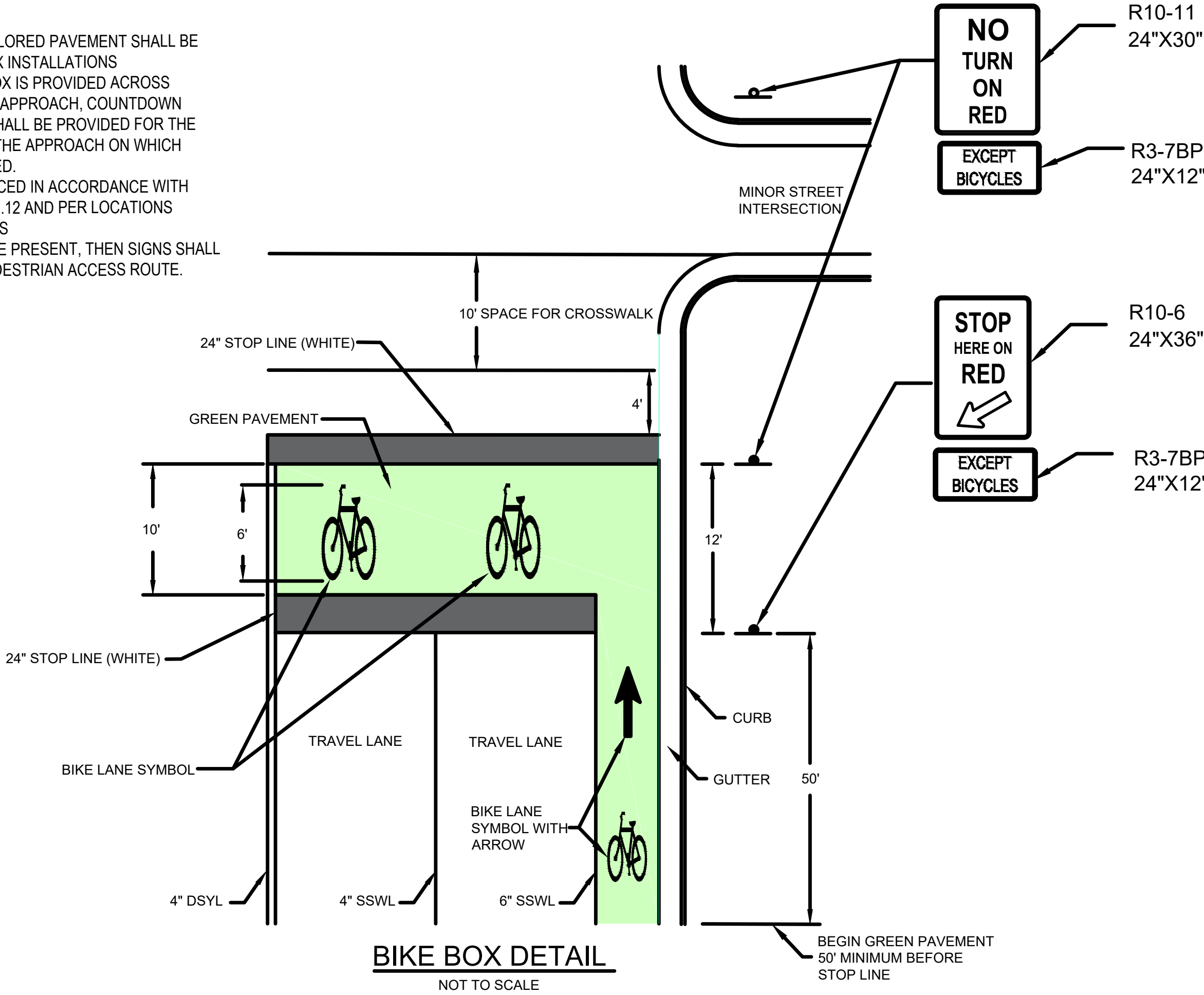
NOTE:
TURN ARROWS SHALL BE PLACED IN THE TURN LANES AT THE LOCATIONS SPECIFIED IN THE PLANS.

TURN LANE ARROW DETAIL
NOT TO SCALE

DETAIL NO. 11

NOTES:

1. SOLID GREEN COLORED PAVEMENT SHALL BE REQUIRED FOR BIKE BOX INSTALLATIONS
2. WHERE A BIKE BOX IS PROVIDED ACROSS MULTIPLE LANES OF AN APPROACH, COUNTDOWN PEDESTRIAN SIGNALS SHALL BE PROVIDED FOR THE CROSSWALKS ACROSS THE APPROACH ON WHICH THE BIKE BOX IS LOCATED.
3. SIGNS TO BE PLACED IN ACCORDANCE WITH 2023 MUTCD SECTION 9E.12 AND PER LOCATIONS SPECIFIED ON THE PLANS
4. IF SIDEWALKS ARE PRESENT, THEN SIGNS SHALL NOT OBSTRUCT THE PEDESTRIAN ACCESS ROUTE.

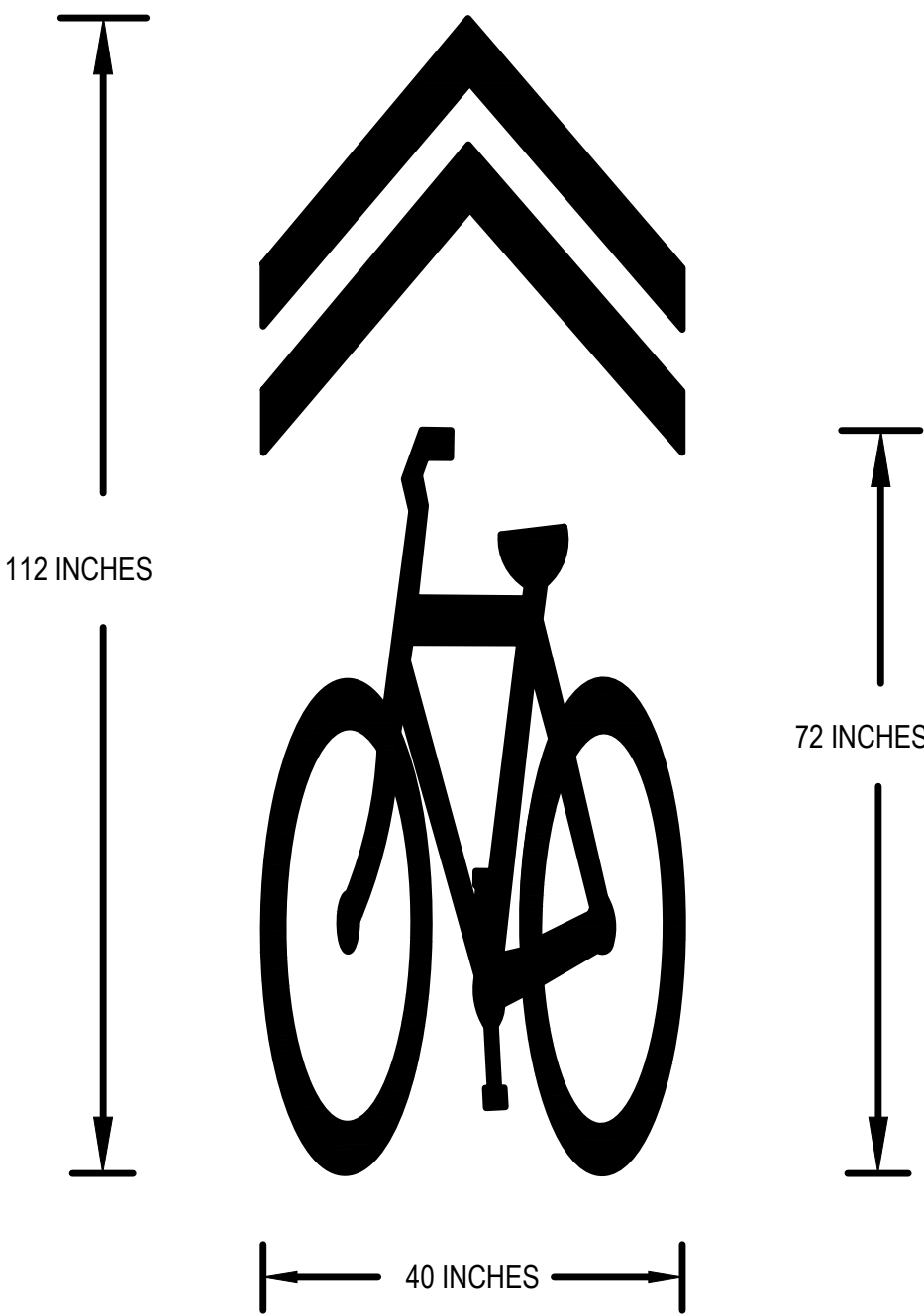


BIKE BOX DETAIL
NOT TO SCALE

DETAIL NO. 12

NOTES:

- REFER TO MUTCD 2023 EDITION PART 9 FIGURE 9E-1 WORD, SYMBOL, AND ARROW PAVEMENT MARKINGS FOR BICYCLE LANES. REDUCED SIZE MARKINGS TO BE USED WHERE REQUIRED IN THE FIELD. REFER TO FIGURE 9E-9 FOR SHARED LANE MARKINGS.
- IF USED IN A SHARED LANE WITH ON-STREET PARALLEL PARKING, SHARED LANE MARKINGS SHOULD BE PLACED SO THAT THE CENTERS OF THE MARKINGS ARE AT LEAST 12 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB. (2023 MUTCD, SECTION 9E.09)
- IF USED ON A STREET WITHOUT ON-STREET PARKING THAT HAS AN OUTSIDE TRAVEL LANE THAT IS LESS THAN 14 FEET WIDE, THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 4 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB. (2023 MUTCD, SECTION 9E.09)



SHARROW SYMBOL

SHARROW MARKING DETAIL

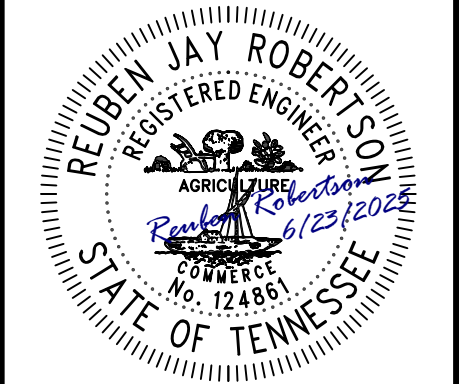
NOT TO SCALE



LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



PROJECT NUMBER:	NDT420
DATE:	6-2025
SCALE:	
DRAWN BY:	JEP
DESIGNED BY:	JAD

SHEET TITLE:

DETAILS

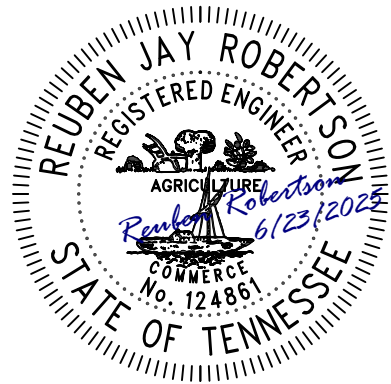
SIGN SCHEDULE				
DESCRIPTION		SIGN ID	SIZE	QTY.
	BIKE LANE	R3-17	24"X18"	14
	NO PARKING BIKE LANE	R7-9	12"X18"	5
	AHEAD	W16-9P	24"X12"	2
	BICYCLE/ PEDESTRIAN	W11-15	30"X30"	6
	ARROW LEFT	W16-7PL	24"X12"	2
	ARROW RIGHT	W16-7PR	24"X12"	2
	IN STREET PEDESTRIAN CROSSING	R1-6	12"X36"	2
	IN STREET SCHOOL CHILDREN CROSSING	R1-6b	12"X36"	2
	STOP HERE ON RED	R10-6A	24"X30"	1
	NO TURN ON RED	R10-11	24"X30"	1
	EXCEPT BICYCLES	R3-7bP	24"X12"	2
	ENDS	R3-17bP	24"X12"	1
	NOTICE	W16-18P	24"X12"	1
	BIKES ALLOWED FULL USE OF LANE	R9-20	30"X30"	1
		SUM OF TOTAL S.F. = 136		



LDA ENGINEERING

[illegible]

**METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD**



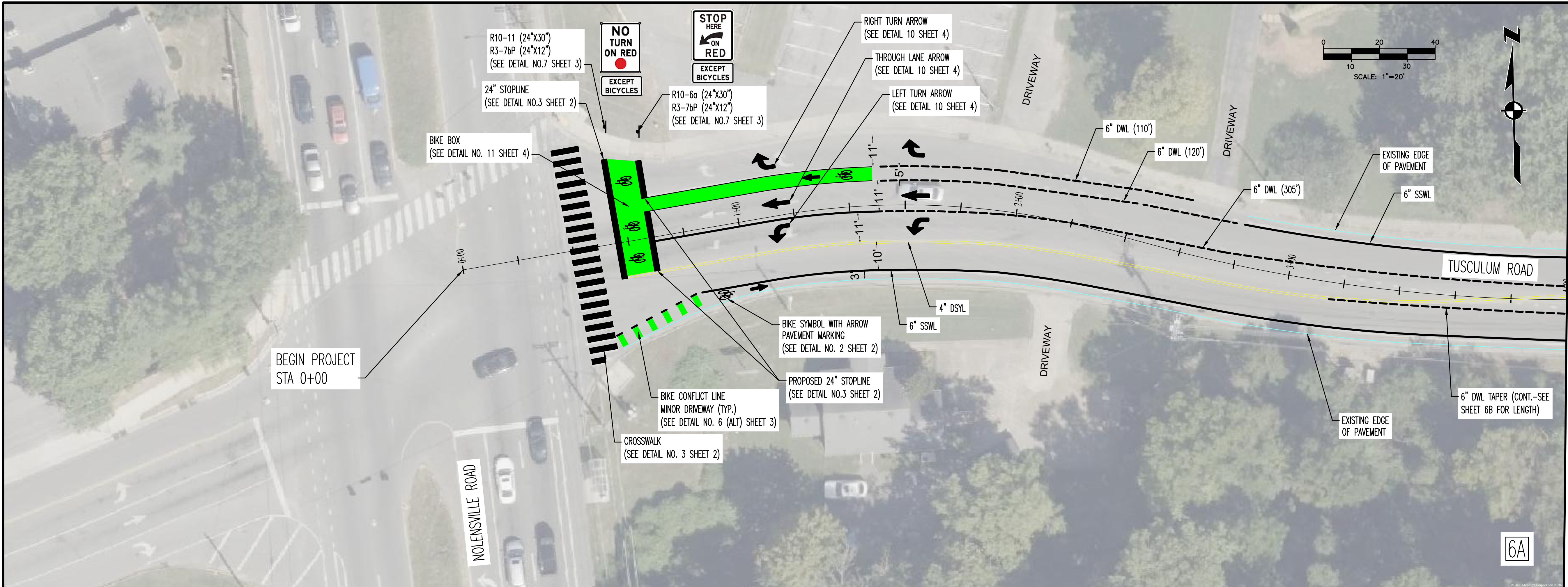
PROJECT NUMBER: NDT420	
DATE: 6-2025	SCALE:
DRAWN BY: JEP	DESIGNED BY: JAD

SHEET TITLE:

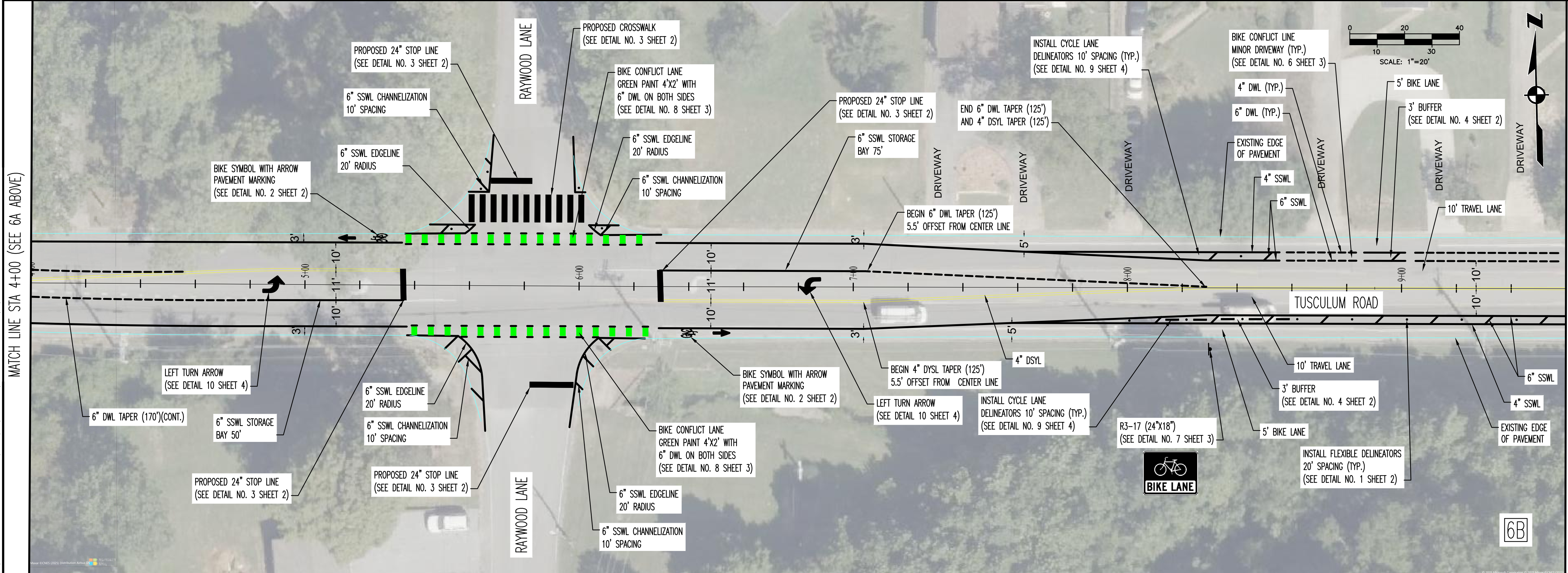
SIGN SCHEDULE

C:\TUSCULUM\PROJ\SW\023-21\DESIGN\400 SHEET FILES\TUSCULUM RD SITE.DWG, 6/12/2025 1:26 PM, JAMES POKERING

MATCH LINE STA 4+00 (SEE 6A ABOVE)



MATCH LINE STA 4+00 (SEE 6B BELOW)



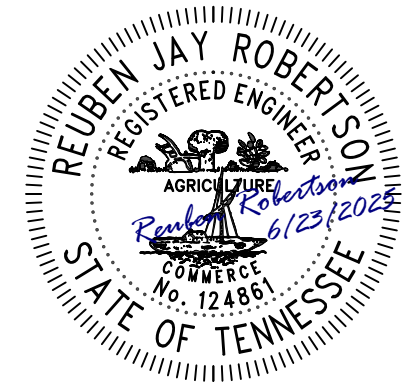
MATCH LINE STA 9+60 (SEE 7A ON SHEET 7)



LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

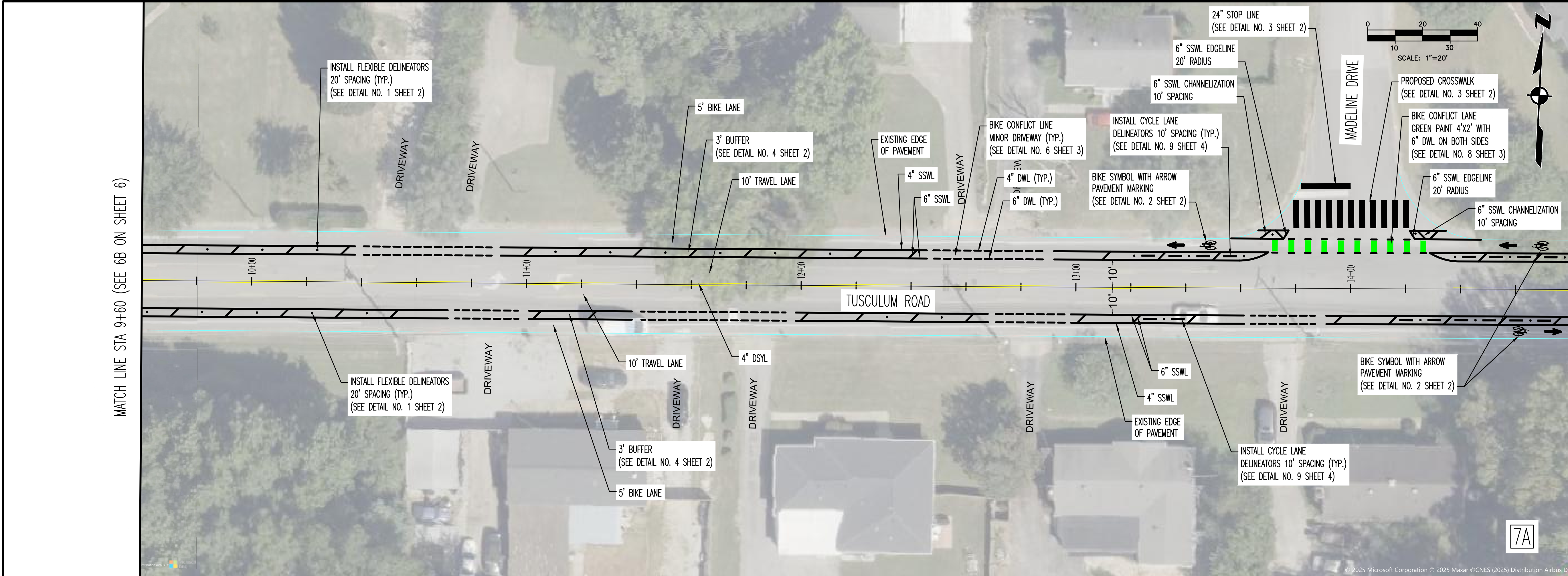
METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



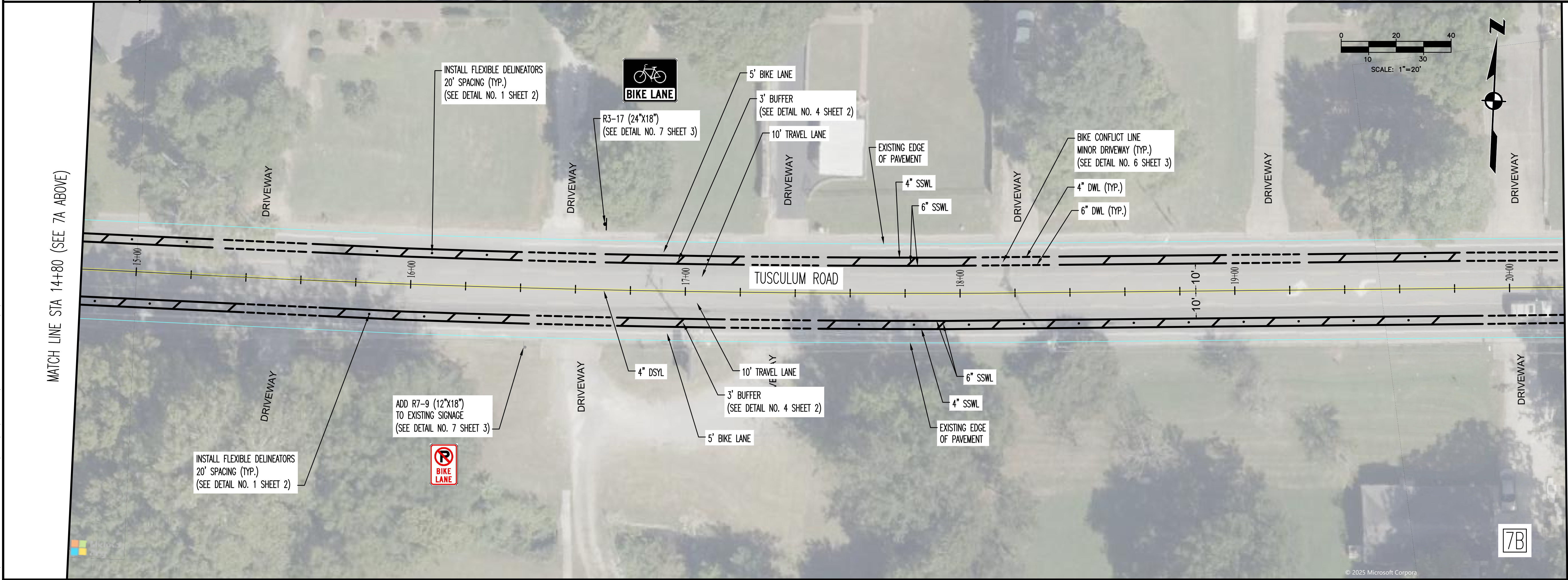
PROJECT NUMBER: NDT420
DATE: 6-2025 SCALE: 1"=20'
DRAWN BY: JEP DESIGNED BY: JAD
SHEET TITLE:

PROPOSED
LAYOUT

C:\TUSCULUM\PH01_S\02_2023-21\DESIGN\401 SHEET FILES\TUSCULUM RD SITE.DWG, 6/12/2025 1:26 PM, JAMES POWERS



MATCH LINE STA 14+80 (SEE 7B BELOW)



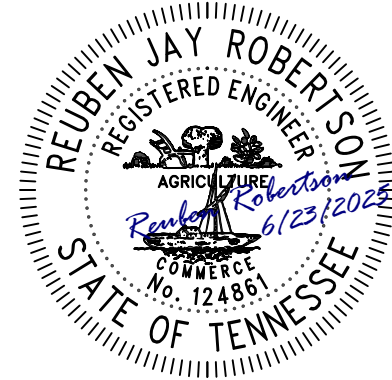
MATCH LINE STA 20+20 (SEE 8A ON SHEET 8)



LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



PROJECT NUMBER: NDT420

DATE: 6-2025 SCALE: 1"=20'

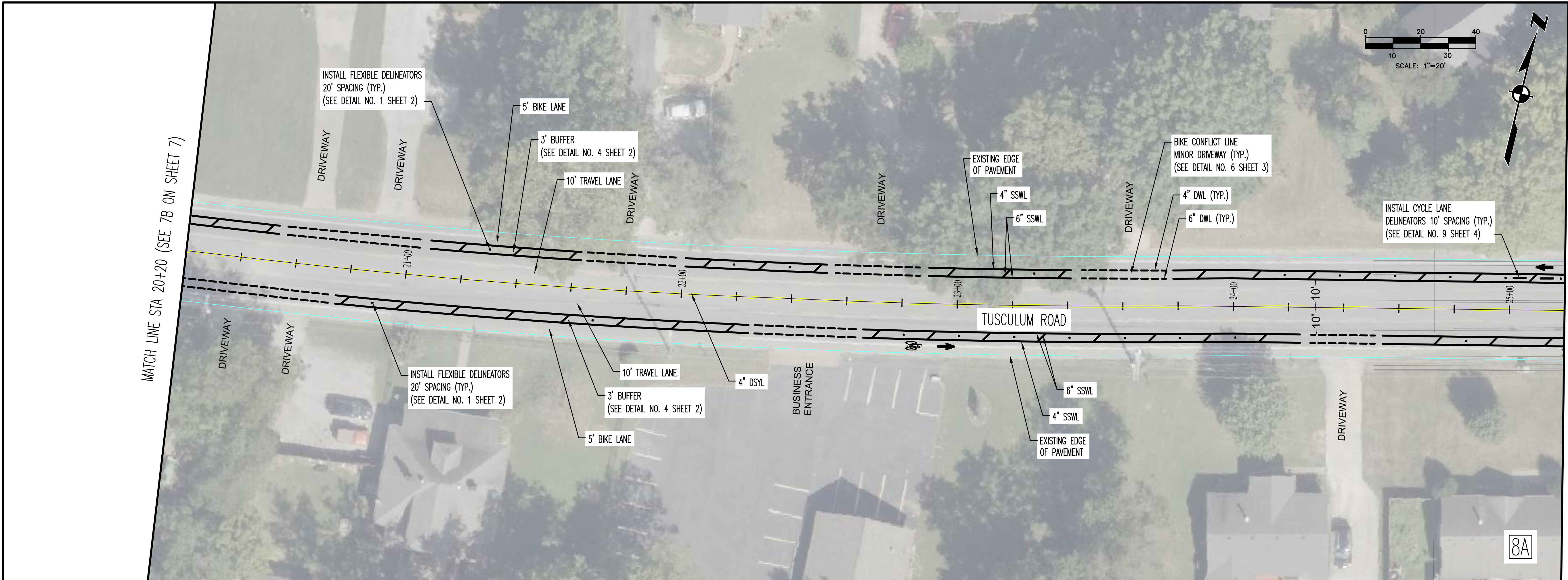
DRAWN BY: JEP DESIGNED BY: JAD

SHEET TITLE:

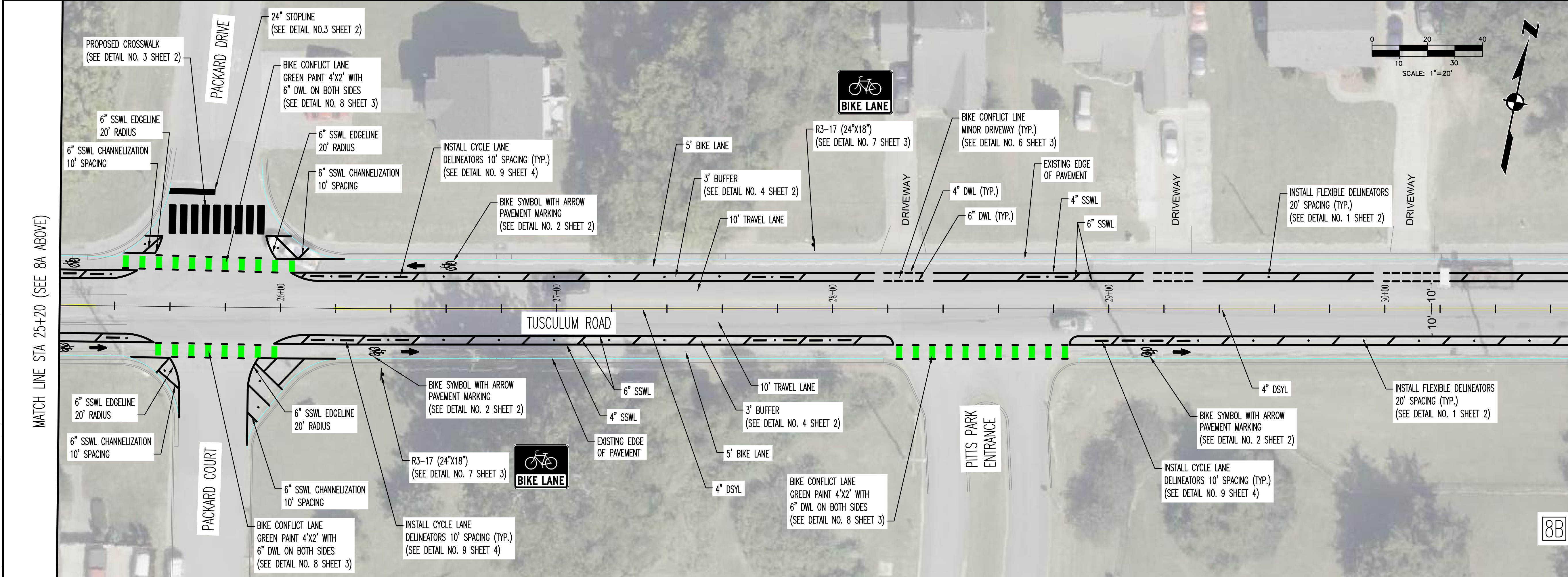
PROPOSED LAYOUT

SHEET 7 OF 19

C:\TUSCULUM\PHD1_S\021\DESIGN\040\SHEET FILES\TUSCULUM RD SITE.DWG, 6/12/2025 1:26 PM, JAMES FOWLER



MATCH LINE STA 25+20 (SEE 8B BELOW)

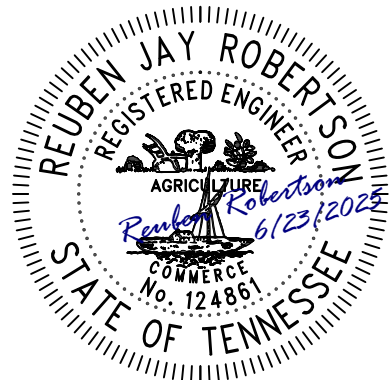


MATCH LINE STA 30+80 (SEE 9A ON SHEET 9)



LDA ENGINEERING

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD

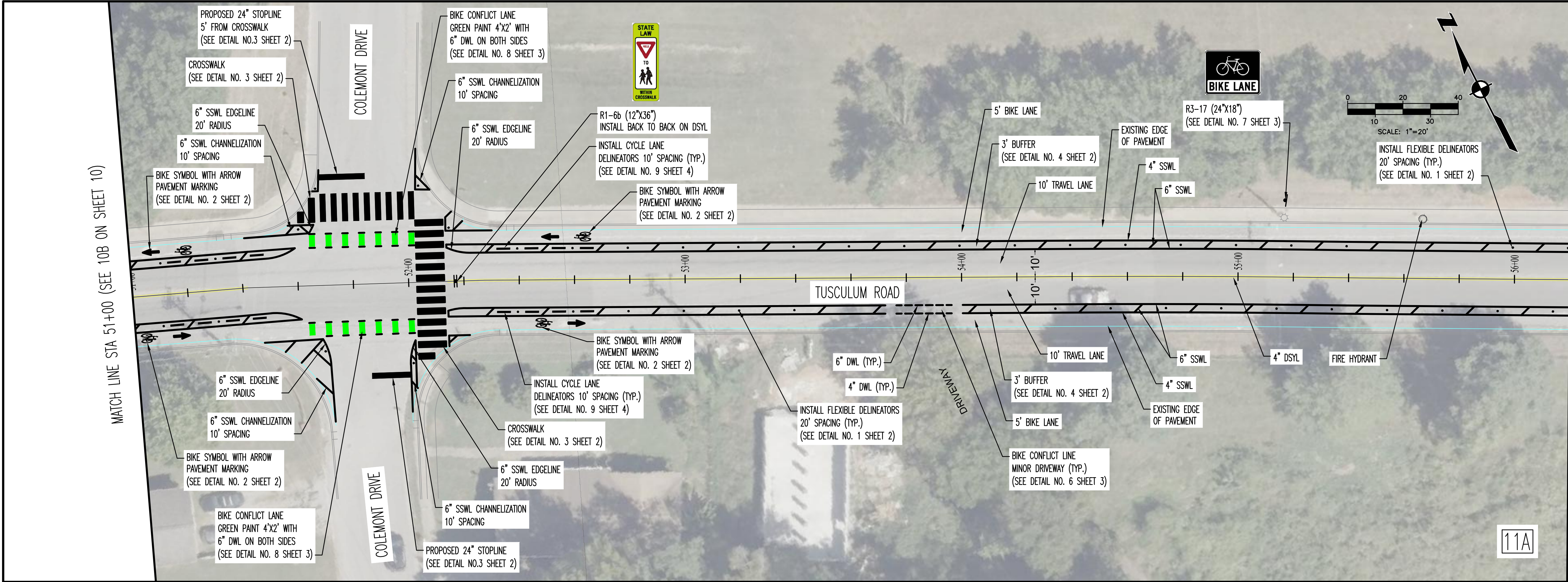


PROJECT NUMBER: NDT420
DATE: 6-2025 SCALE: 1"=20'
DRAWN BY: JEP DESIGNED BY: JAD
SHEET TITLE:

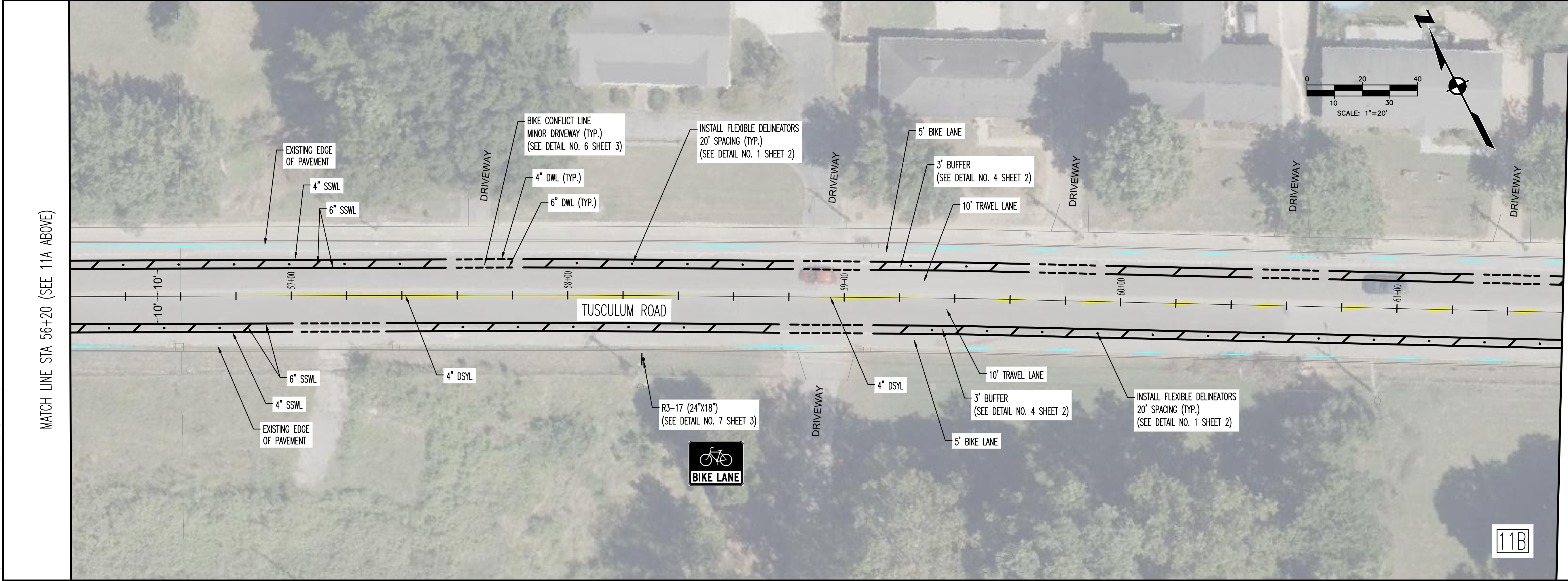
PROPOSED
LAYOUT

SHEET 8 OF 19

C:\TUSCULUM\PROJ_027_2023-21\DESIGN\401 SHEET FILES\TUSCULUM RD SITE.DWG, 6/12/2025 1:27 PM, JAMES POWERS



MATCH LINE STA 56+20 (SEE 11B BELOW)



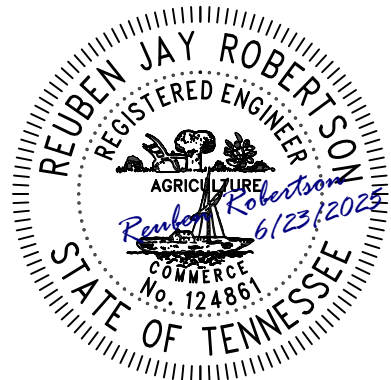
MATCH LINE STA 61+60 (SEE 12A ON SHEET 12)



LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

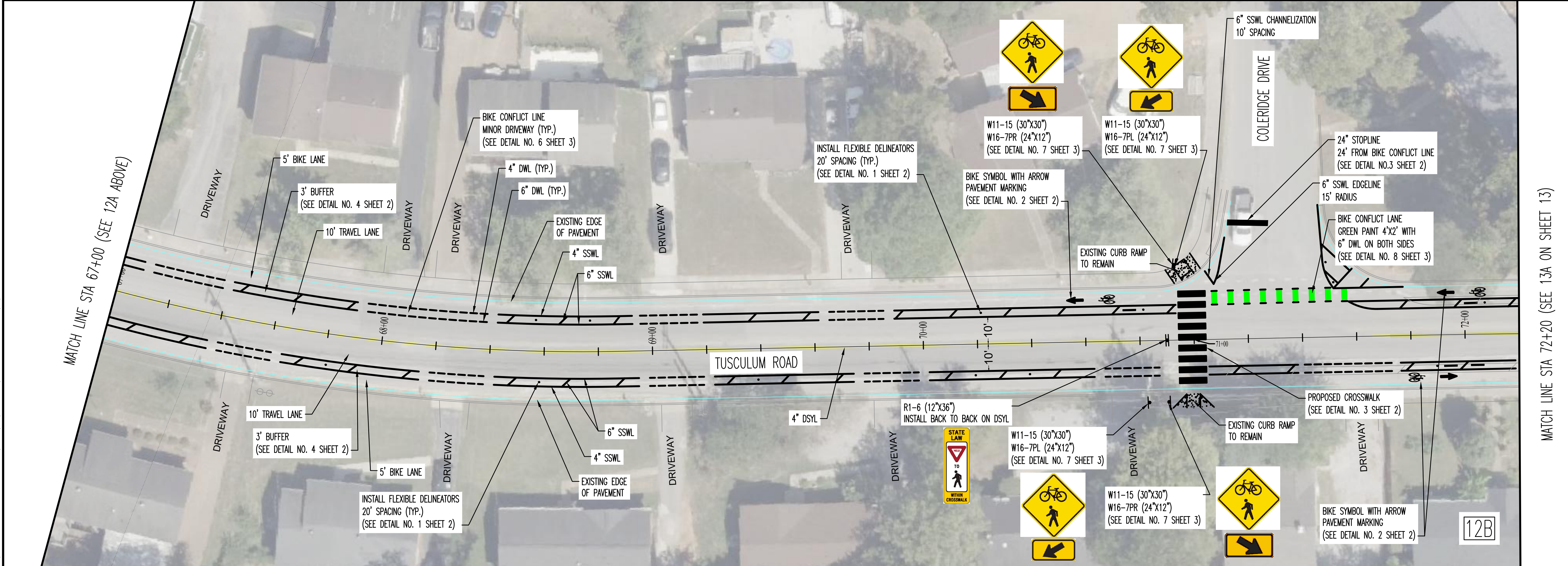
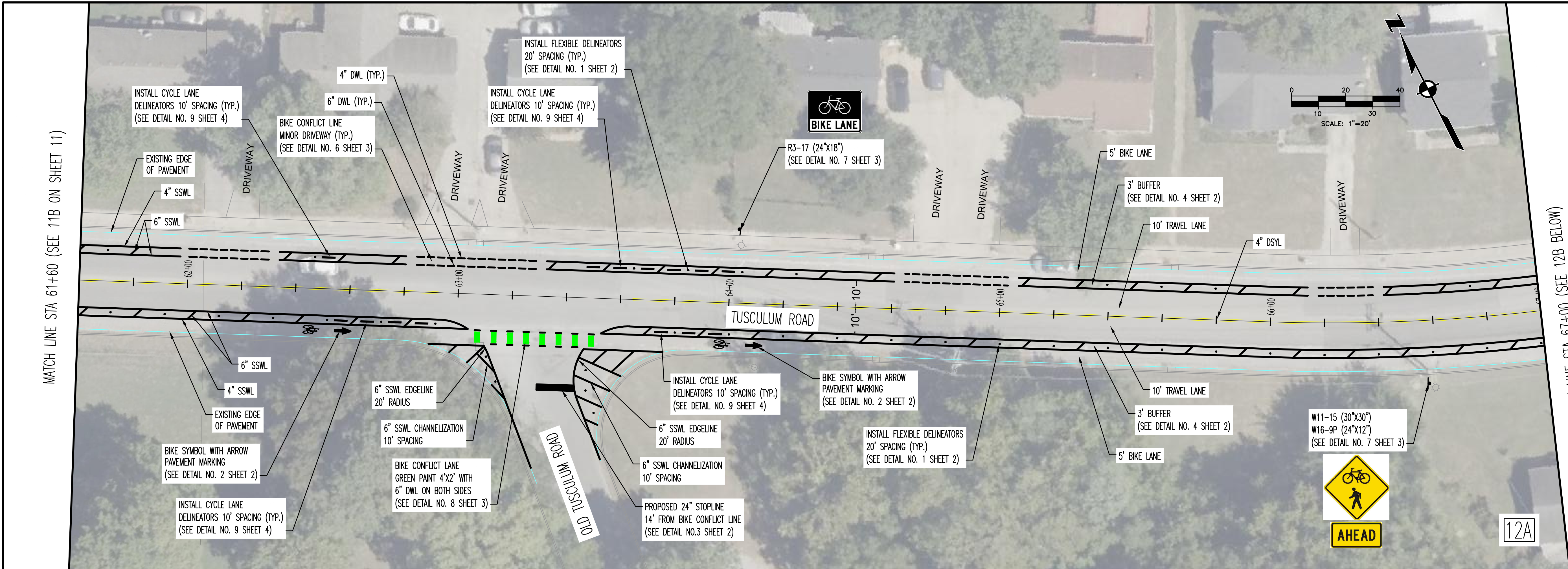
METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



PROJECT NUMBER:	NDT420
DATE:	6-2025
SCALE:	1"=20'
DRAWN BY:	JEP
DESIGNED BY:	JAD

SHEET TITLE:
**PROPOSED
LAYOUT**

C:\TUSCULUM\RD\PH01_S\021\2023-21\DESIGN\400 SHEET FILES\TUSCULUM RD SITE.DWG, 6/12/2025 1:27 PM, JAMES POWERS



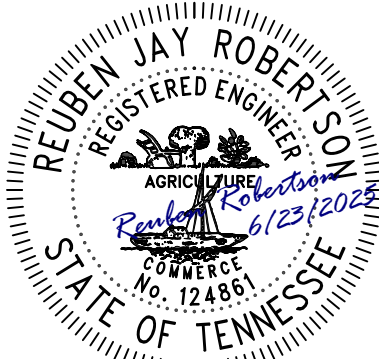


LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE

TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



PROJECT NUMBER: NDT420

DATE: 6-2025 SCALE: 1"=20'

DRAWN BY: JEP DESIGNED BY: JAD

SHEET TITLE:
PROPOSED LAYOUT

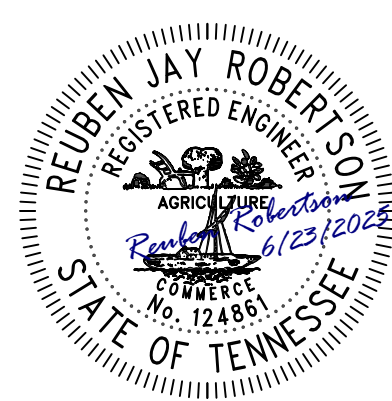
SHEET 12 OF 19



LDA ENGINEERING

[illegible]

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
TUSCULUM ROAD BIKEWAY IMPROVEMENTS
FROM NOLENSVILLE ROAD TO BLUE HOLE ROAD



PROJECT NUMBER: NDT420	
DATE: 6-2025	SCALE: 1"=20'
DRAWN BY: JEP	DESIGNED BY: JAD
SHEET TITLE:	

PROPOSED LAYOUT

