

WEST AND HARRINGTON BIKE LANE IMPROVEMENTS

CITY OF RALEIGH, NC



Prepared For
CITY OF RALEIGH, NC
ADDRESS: 219 FAYETTEVILLE STREET
RALEIGH, NC 27601
(919) 996-2495

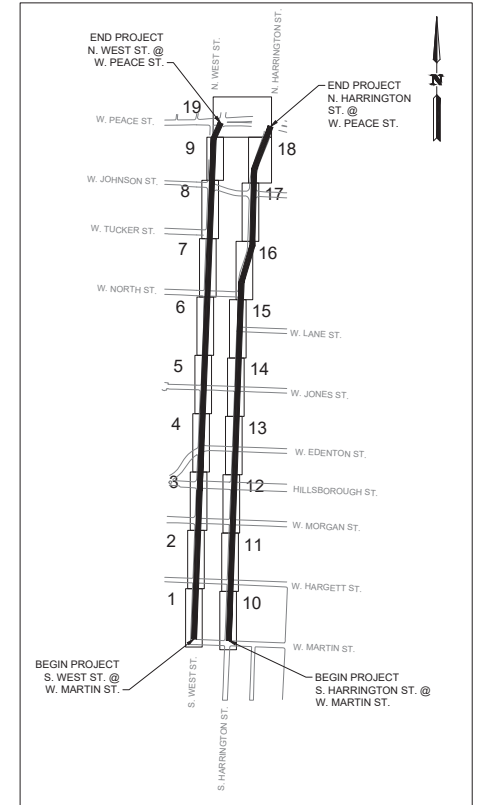
100% INDEX OF SHEETS		
SHEET NUMBER	DRAWING NUMBER	SHEET TITLE
1	G-001	TITLE SHEET
2	G-002	GENERAL NOTES
3	G-003	TYPICAL SECTIONS
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15	SPD-001	SPILL PROTECTION DETAILS
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17	CE-001	CURB ENLARGEMENTS
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31-41	PM-001 - PM-201	PAVEMENT MARKING AND SIGNING
42	PMD-001	PAVEMENT MARKING DETAILS

PUBLIC IMPROVEMENT QUANTITIES	
PHASE NUMBER	0
NUMBER OF LOTS	0
LOT NUMBER BY PHASE	0
NUMBER OF UNITS	0
LIVABLE BUILDINGS	0
OPEN SPACE?	0
NUMBER OF OPEN SPACE LOTS	0
PUBLIC WATER (LF)	0
PRIVATE WATER (LF)	0
PUBLIC SEWER (LF)	0
PUBLIC FORCE MAIN (LF)	0
PRIVATE SEWER (LF)	0
PUBLIC STREET (LF) - FULL	0
PUBLIC STREET (LF) - PARTIAL	0
PUBLIC SIDEWALK (LF) - FULL	0
PUBLIC SIDEWALK (LF) - PARTIAL	0
MULTI-USE PATH (LF)	0
PUBLIC STORMDRAIN (LF)	0
STREET SIGNS (LF)	0
WATER SERVICE STUBS	0
SEWER SERVICE STUBS	0
AVERAGE DAILY FLOW PER PHASE	0

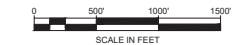
TRAFFIC CONTROL AND PEDESTRIAN PLAN (TCPED) NOTES:

- Prior to any work that impacts the right-of-way, closing or detouring of any street, lane, or sidewalk, the contractor must apply for a permit with Right-of-Way Services. Please direct any questions to rightofwayservices@raleighnc.gov.
- The street, lane, sidewalk, closure permit is required for any closure on city streets and all NCDOT streets within Raleigh's Jurisdiction.
- A permit request with a TCPED Plan shall be submitted to Right-of-Way Services through the City of Raleigh Permit and Development Portal.
- Prior to the start of work, the Client shall schedule a Pre-Construction meeting with the Engineering Inspections Coordinator to review the specific components of the approved plan, and ensure all permits are issued.
- All TCPED Plans shall comply with all Local, State, and Federal requirements and standards, including but not limited to:
 - Manual on Uniform Traffic Control (MUTCD);
 - Public Rights-of-Way Accessibility Guidelines (PROWAG);
 - American Disability Act (ADA) requirements;
 - Raleigh Street Design Manual (RSDM).
- All public sidewalks must be accessible to pedestrians who are visually impaired and/or people with mobility concerns. Existing and alternative pedestrian routes during construction shall be required to be compliant with the Public Rights of Way Accessibility Guidelines (PROWAG), the ADA Standards for Accessible Design and the Manual on Uniform Traffic Control Devices (MUTCD).
- All permits must be available and visible on site during the operation

Project Location:
WEST STREET CORRIDOR AND HARRINGTON STREET CORRIDOR
FROM MARTIN STREET TO PEACE STREET APPROXIMATELY - 8,270 LINEAR FEET
WAKE COUNTY

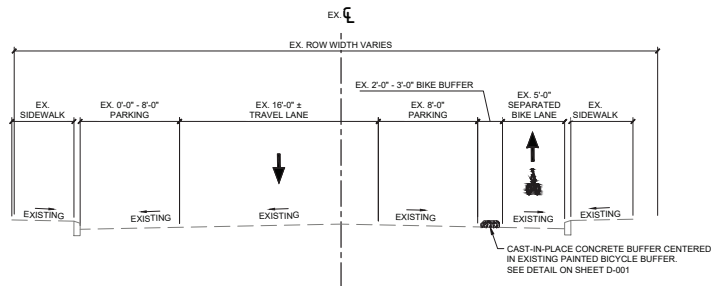


KEY MAP

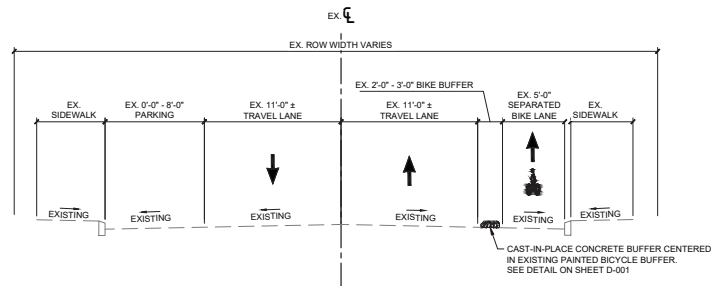


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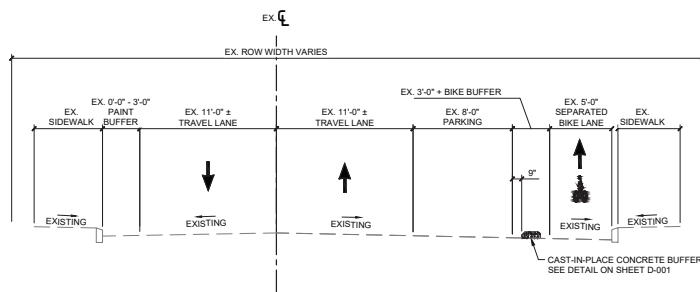
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS										TOOLE DESIGN Submitted by Transportation Design Group, LLP, an affiliate of Toole Design Group, LLC (#F-1337)		315 S. BLOODWORTH STREET RALEIGH, NC 27601 PHONE: 919.336.5010 www.tooledesign.com		WEST AND HARRINGTON BIKE LANE IMPROVEMENTS		CITY OF RALEIGH, NC		GENERAL		PROJECT NO.							
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 [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.																		03RAL 00368.01									
		DSGN		JP																DATE		05.28.2026							
		DR		JP																DRAWING NO.		G-001							
		CHK		NB								APVD		DM		NO.		DATE		REVISION		BY		APVD		SHEET NO.		1 OF 42	



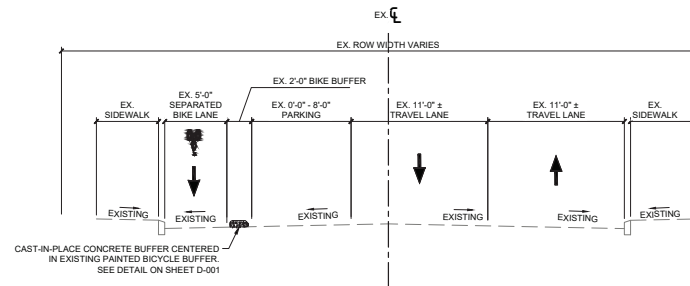
WEST STREET
MARTIN ST - HARGETT ST



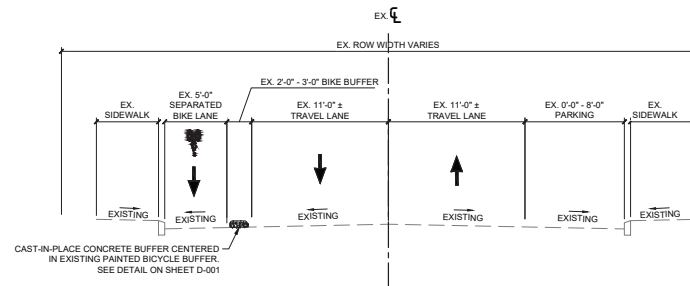
WEST STREET
HARGETT ST - HILLSBOROUGH ST
EDENTON ST - NORTH ST



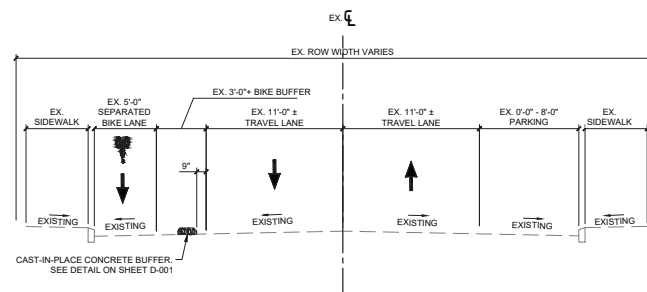
WEST STREET
HILLSBOROUGH ST - EDENTON ST
NORTH ST - JOHNSON ST



HARRINGTON STREET
MARTIN ST - HARGETT ST



HARRINGTON STREET
HARGETT ST - NORTH ST



HARRINGTON STREET
NORTH ST - PEACE ST

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DSGN	JP						
DR	JP						
CHK	NB						
APVD	DM	NO.	DATE	REVISION	BY	APVD	

TOOLE
DESIGN

Submitted by Transportation Design Group, LLP,
an affiliate of Toole Design Group, LLC (TF-1337)

315 S. BLOODWORTH STREET
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WEST AND HARRINGTON BIKE
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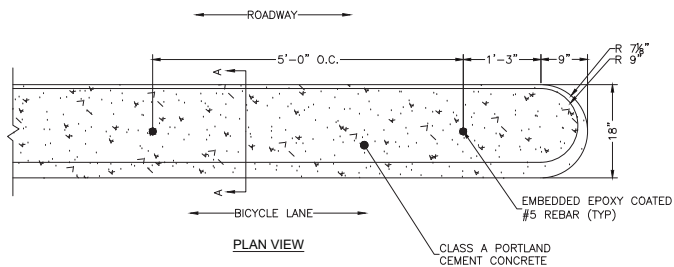
CITY OF RALEIGH, NC

CIVIL

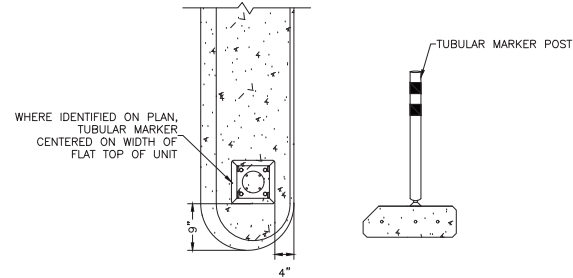
TYPICAL SECTIONS

PROJECT NO.	03RAL 00368.01
DATE	05.28.2026
DRAWING NO.	G-003
SHEET NO.	3 OF 42

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Friday, May 15, 2026 1:04:41 PM

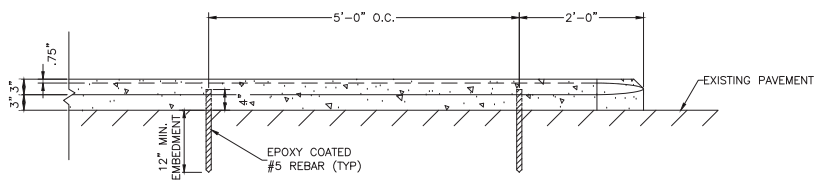


PLAN VIEW



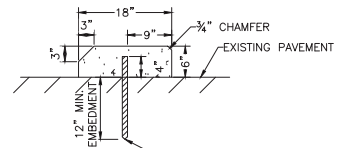
CAST-IN-PLACE CONCRETE BUFFER WITH TUBULAR MARKER DETAIL

SCALE: 1"=1'



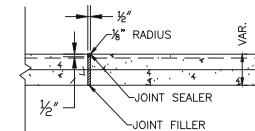
PROFILE VIEW

NOTE: DO NOT DRIVE REBAR WITHIN 2' OF END OF MEDIAN

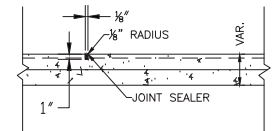


SECTION A-A

EPOXY COATED #5 REBAR
@ 5'-0" O.C.



EXPANSION JOINT



GROOVED JOINT

IN THE CONCRETE BUFFER PLACE 1/2" EXPANSION JOINTS AT 30' INTERVALS AND GROOVED JOINTS 1" DEEP AT 10' INTERVALS BETWEEN EXPANSION JOINTS

CAST-IN-PLACE CONCRETE BUFFER DETAIL

SCALE: 1"=1'

100% DESIGN SUBMISSION

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DSGN	JP				
DR	JP				
CHK	NB				
APVD	DM	NO.	DATE	REVISION	BY

**TOOLE
DESIGN**

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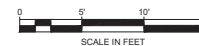
WEST AND HARRINGTON BIKE
LANE IMPROVEMENTS

CITY OF RALEIGH, NC

CIVIL

ROADWAY DETAILS

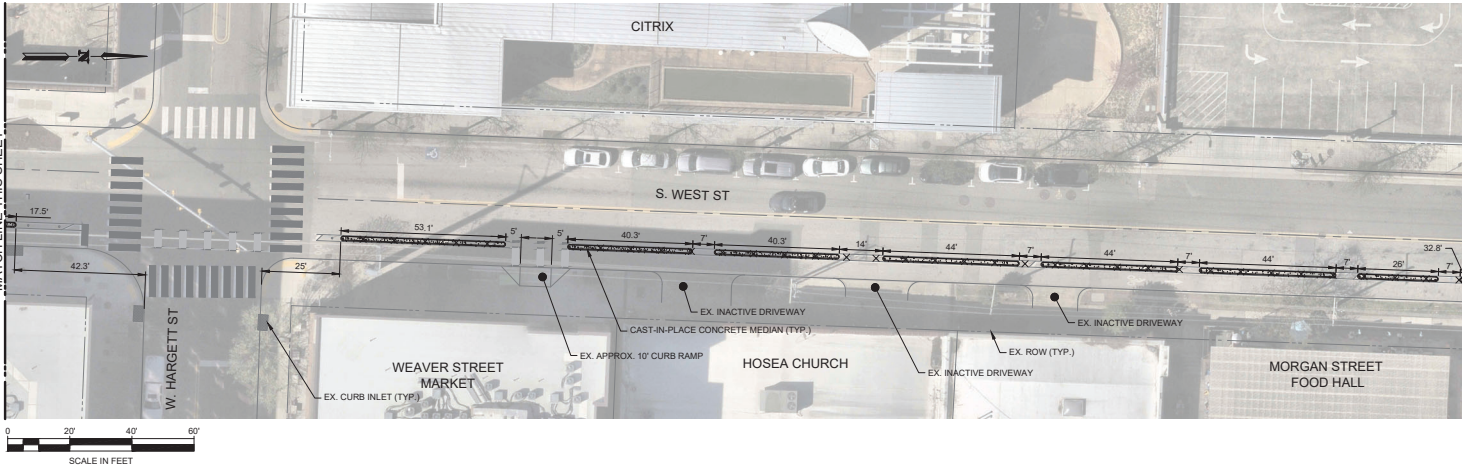
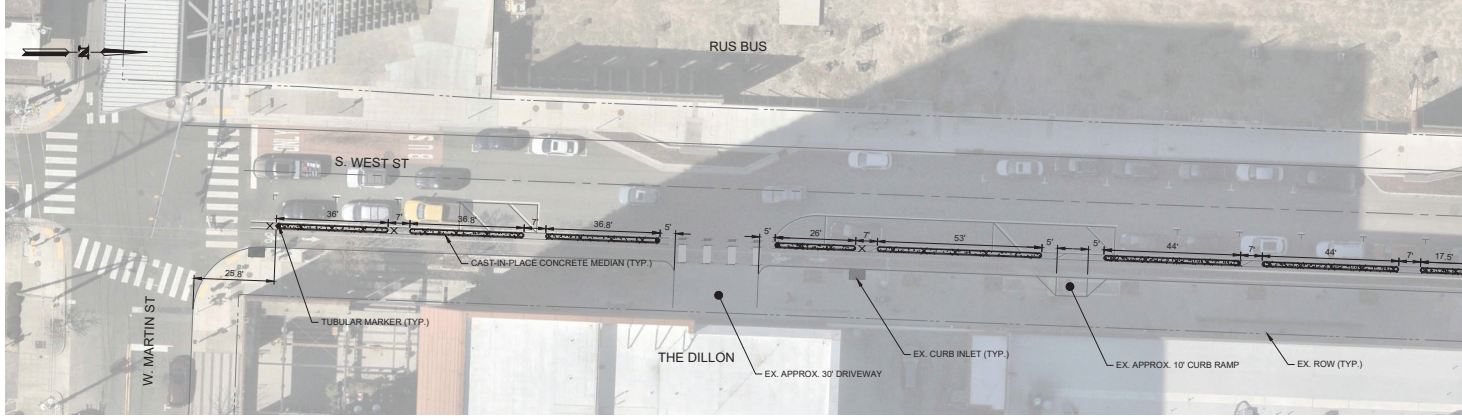
PROJECT NO.	03RAL 00368.01
DATE	05.28.2026
DRAWING NO.	D-001
SHEET NO.	16 OF 42



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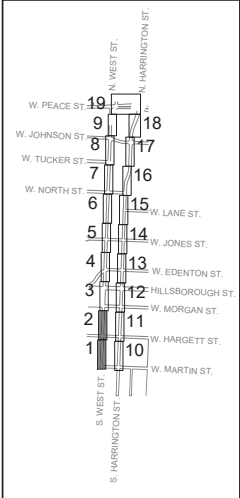
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I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.	DSGN	SL																			DATE 05-28-2020	
	GR	SL																			DRAWING NO. CE-00	
	CHK	NB																			SHEET NO. 17 OF 42	
	AP/VD	DM	NO.	DATE	REVISION					BY	AP/VD											

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- NOTES:**
- SEE SHEET G-003 FOR CAST-IN-PLACE CONCRETE BUFFER PLACEMENT WITHIN EXISTING SEPARATED BIKE LANE.
 - SEE SHEET D-001 FOR CAST-IN-PLACE CONCRETE BUFFER AND TUBULAR MARKER DETAIL.
 - CONCRETE BIKE BUFFERS SHALL NOT BE PLACED OVER ANY MANHOLES, WATER VALVES, SURVEY MONUMENTS, OR ANY OTHER SURFACE STRUCTURE.

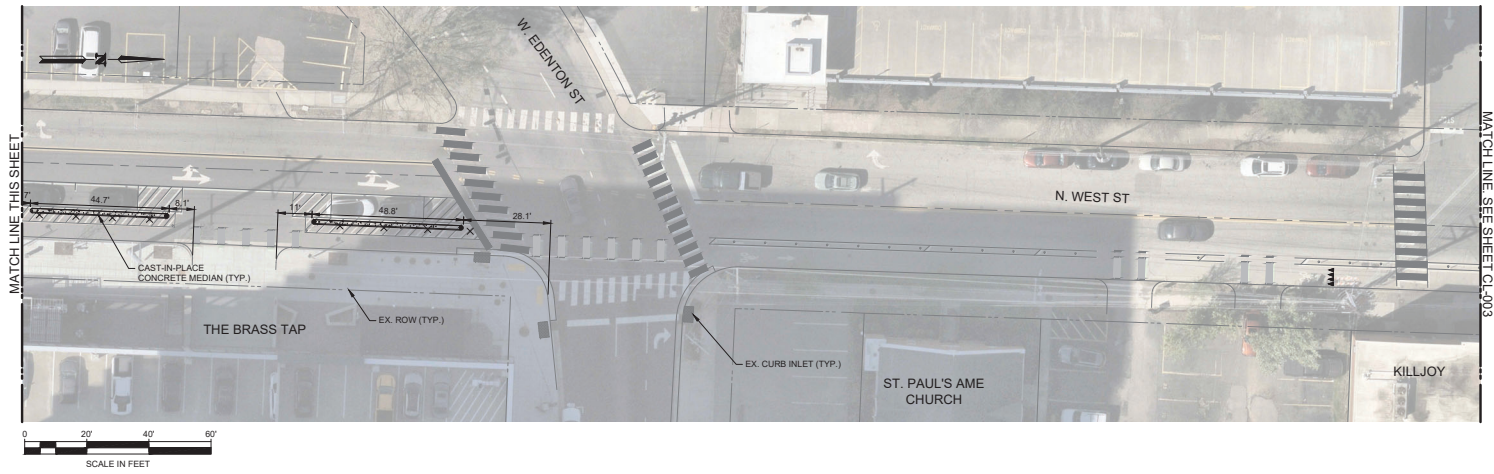
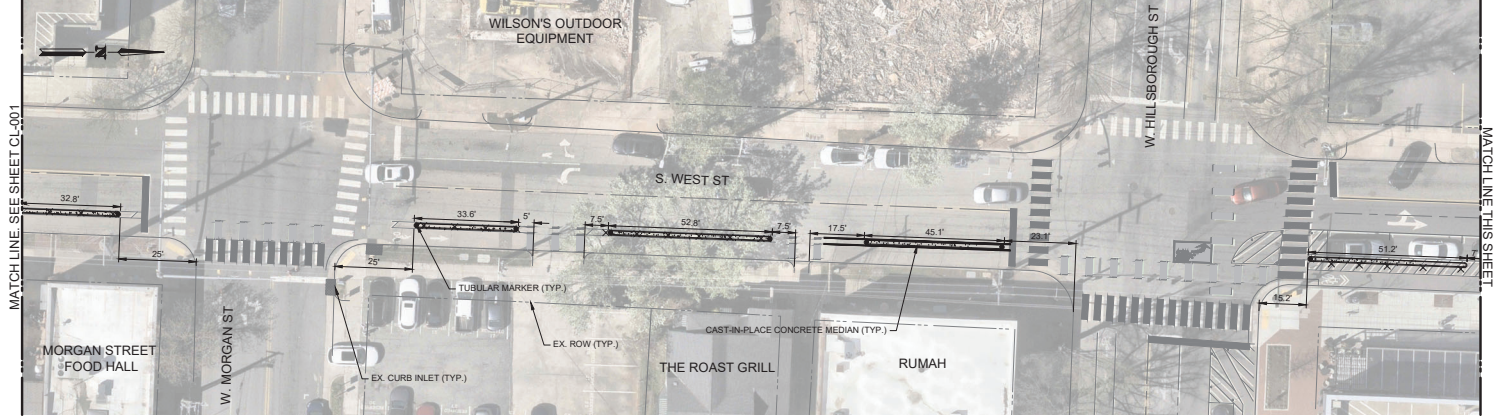
- LEGEND:**
- CAST-IN-PLACE CONCRETE MEDIAN
 - TUBULAR MARKER (NEW)
 - TUBULAR MARKER (TO BE RETAINED)
 - TUBULAR MARKER (TO BE REMOVED)
 - EXISTING CURB INLET



KEY MAP SCALE: 1"=1000'

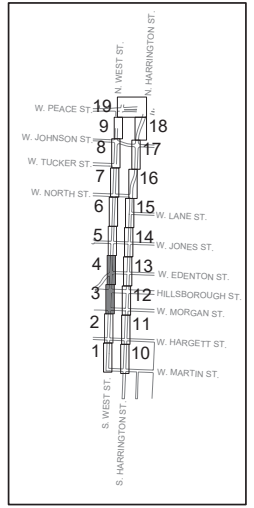
100% DESIGN SUBMISSION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				TOOLE DESIGN		WEST AND HARRINGTON BIKE LANE IMPROVEMENTS		CIVIL		ROADWAY PLANS	
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 (STATE), LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				TOOLE DESIGN Submitted by Transportation Design Group, LLP, an affiliate of Toole Design Group, LLC (TF-1337)		315 S. BLOODWORTH STREET RALEIGH, NC 27601 PHONE: 919.336.5010 www.tooledesign.com		CITY OF RALEIGH, NC		PROJECT NO. 03RAL 00368.01 DATE 05.28.2026 DRAWING NO. CL-001 SHEET NO. 18 OF 42	
		DSGN	JP										
		DR	JP										
		CHK	NB										
APVD	DM	NO.	DATE	REVISION	BY	APVD							



- NOTES:**
- 1. SEE SHEET G-003 FOR CAST-IN-PLACE CONCRETE BUFFER PLACEMENT WITHIN EXISTING SEPARATED BIKE LANE.
 - 2. SEE SHEET D-001 FOR CAST-IN-PLACE CONCRETE BUFFER AND TUBULAR MARKER DETAIL.
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 - TUBULAR MARKER (NEW)
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 - TUBULAR MARKER (TO BE REMOVED)
 - EXISTING CURB INLET

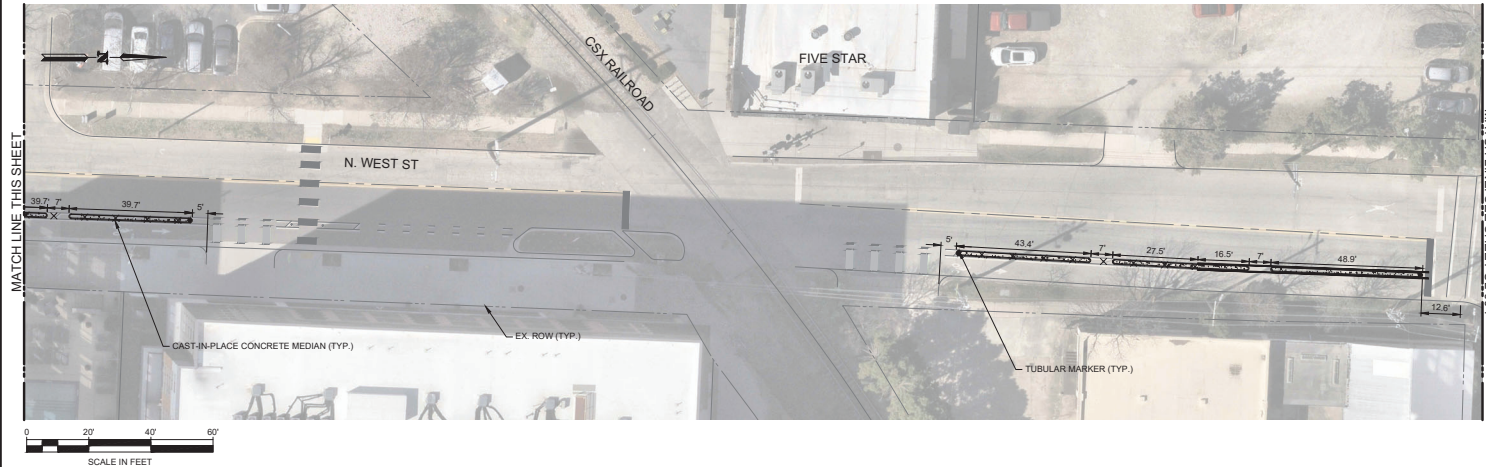
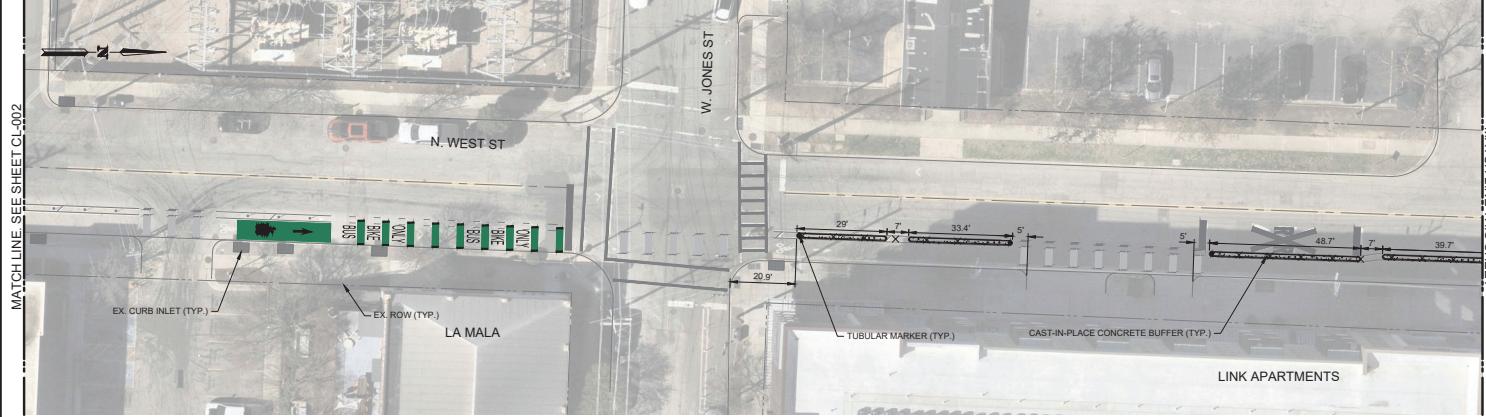


KEY MAP SCALE: 1"=1000'

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	DSGN	JP					ROADWAY PLANS		DATE 05.28.2026
	OR	JP							DRAWING NO. CL-002
	CHK	NB							SHEET NO. 19 OF 42
APVD	DM	NO.	DATE	REVISION	BY	APVD			

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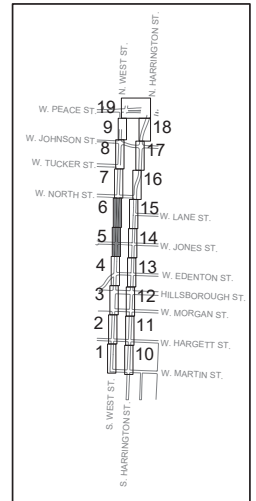


NOTES:

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LEGEND:

	CAST-IN-PLACE CONCRETE MEDIAN
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	TUBULAR MARKER (TO BE RETAINED)
	TUBULAR MARKER (TO BE REMOVED)
	EXISTING CURB INLET

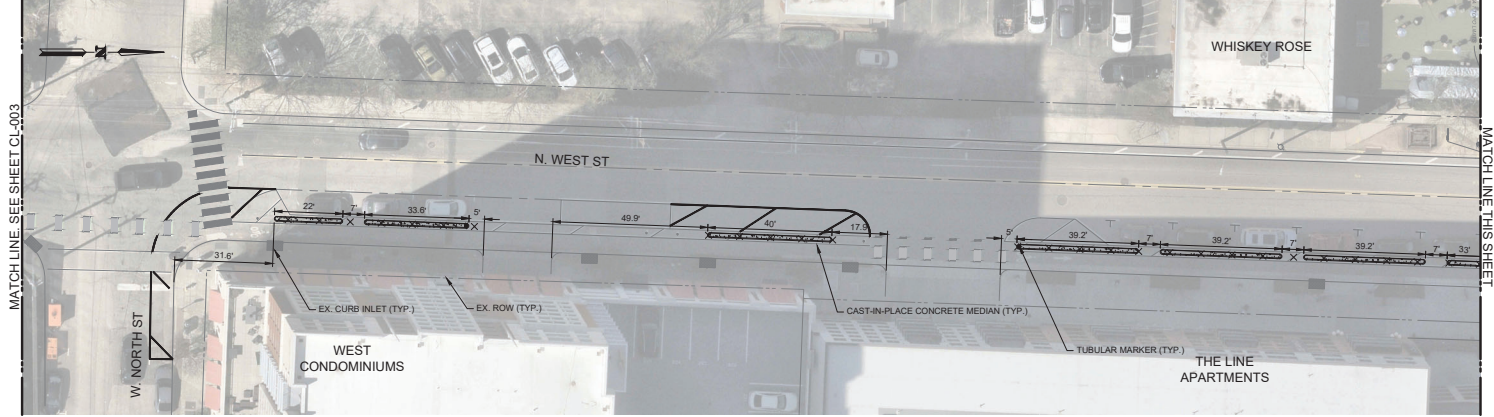


KEY MAP

SCALE: 1"=1000'

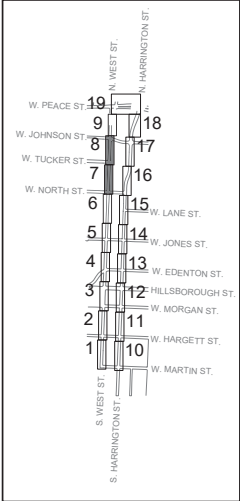
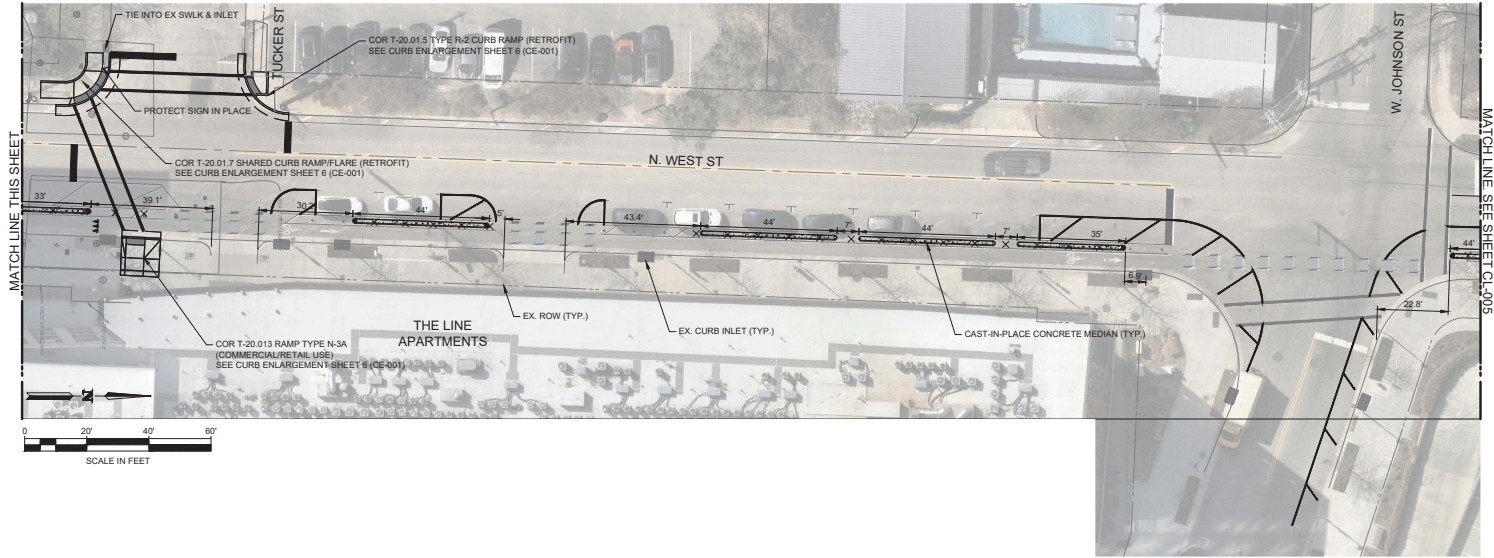
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		DSGN JP								DRAWING NO. CL-003					
		OR JP													
		CHK NB								SHEET NO. 20 OF 42					
		APVD DM		NO. DATE		REVISION		BY APVD							



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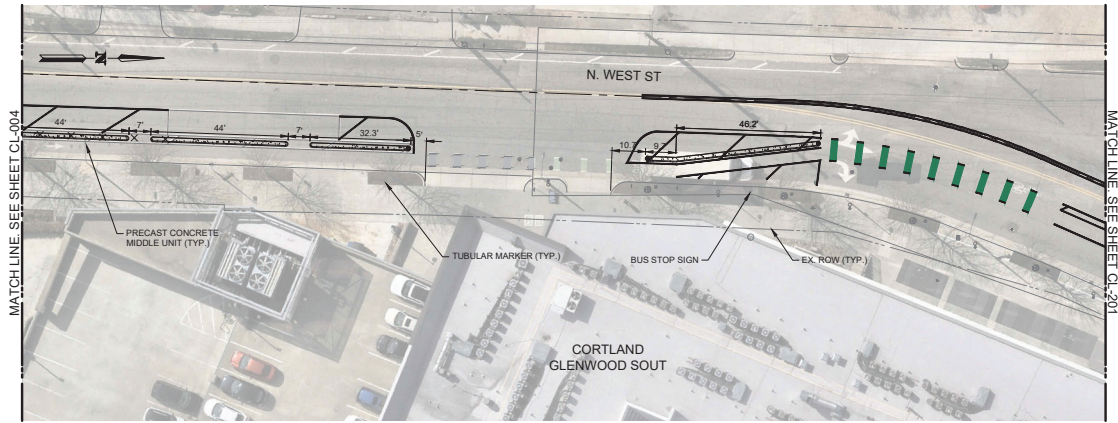
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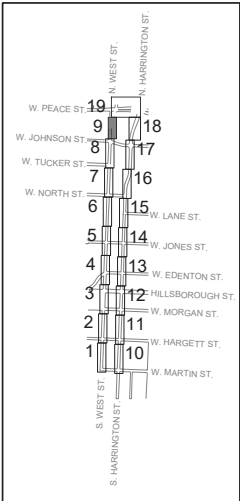
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	DSGN	JP									DATE 05.28.2026
	DR	JP									DRAWING NO. CL-004
	CHK	NB									SHEET NO. 21 OF 42
	APVD	DM	NO.	DATE	REVISION	BY	APVD				



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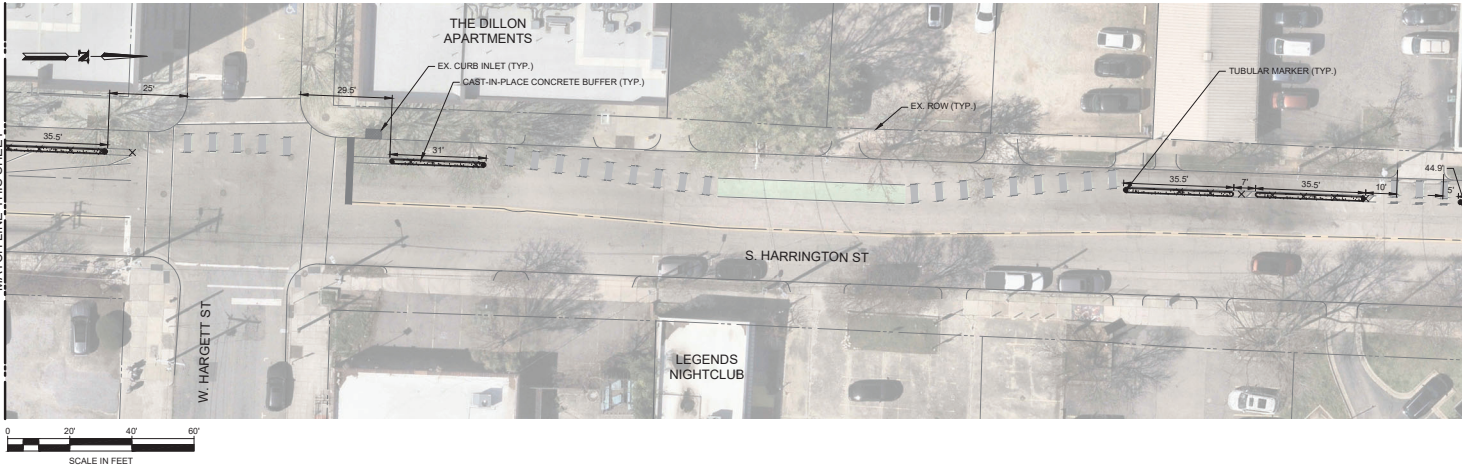
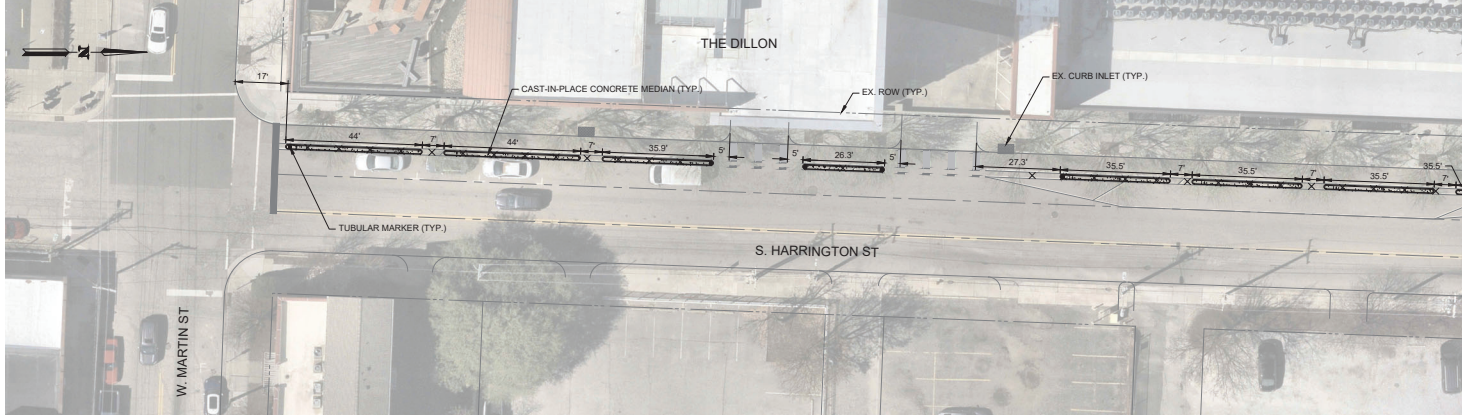
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100% DESIGN SUBMISSION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS										TOOLE DESIGN Submitted by Transportation Design Group, LLP, an affiliate of Toole Design Group, LLC (#F-1337)		315 S. BLOODWORTH STREET RALEIGH, NC 27601 PHONE: 919.336.5010 www.tooledesign.com		WEST AND HARRINGTON BIKE LANE IMPROVEMENTS CITY OF RALEIGH, NC		CIVIL		PROJECT NO.	
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 [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.																DATE		03RAL 00368.01	
		DSGN		JP																05.28.2026	
		DR		JP																DRAWING NO.	
		CHK		NB												CL-005					
		APVD		DM		NO.		DATE		REVISION				BY		APVD					
																SHEET NO.					
																22 OF 42					

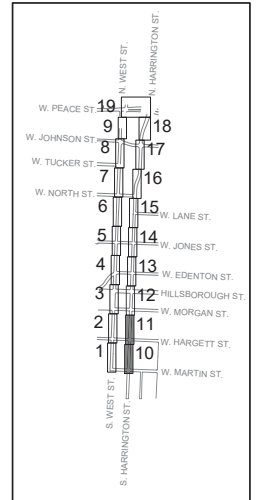


NOTES:

- SEE SHEET G-003 FOR CAST-IN-PLACE CONCRETE BUFFER PLACEMENT WITHIN EXISTING SEPARATED BIKE LANE.
- SEE SHEET D-001 FOR CAST-IN-PLACE CONCRETE BUFFER AND TUBULAR MARKER DETAIL.
- CONCRETE BIKE BUFFERS SHALL NOT BE PLACED OVER MANHOLES, WATER VALVES, SURVEY MONUMENTS, OR ANY OTHER SURFACE STRUCTURE.

LEGEND:

	CAST-IN-PLACE CONCRETE MEDIAN
	TUBULAR MARKER (NEW)
	TUBULAR MARKER (TO BE RETAINED)
	TUBULAR MARKER (TO BE REMOVED)
	EXISTING CURB INLET



KEY MAP

SCALE: 1"=1000'

100% DESIGN SUBMISSION

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 [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.

REUSE OF DOCUMENTS

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DSGN	JP				
DR	JP				
CHK	NB				
APVD	DM	NO.	DATE	REVISION	BY

TOOLE
DESIGN

Submitted by Transportation Design Group, LLP,
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RALEIGH, NC 27601
PHONE: 919.336.5010
www.tooledesign.com

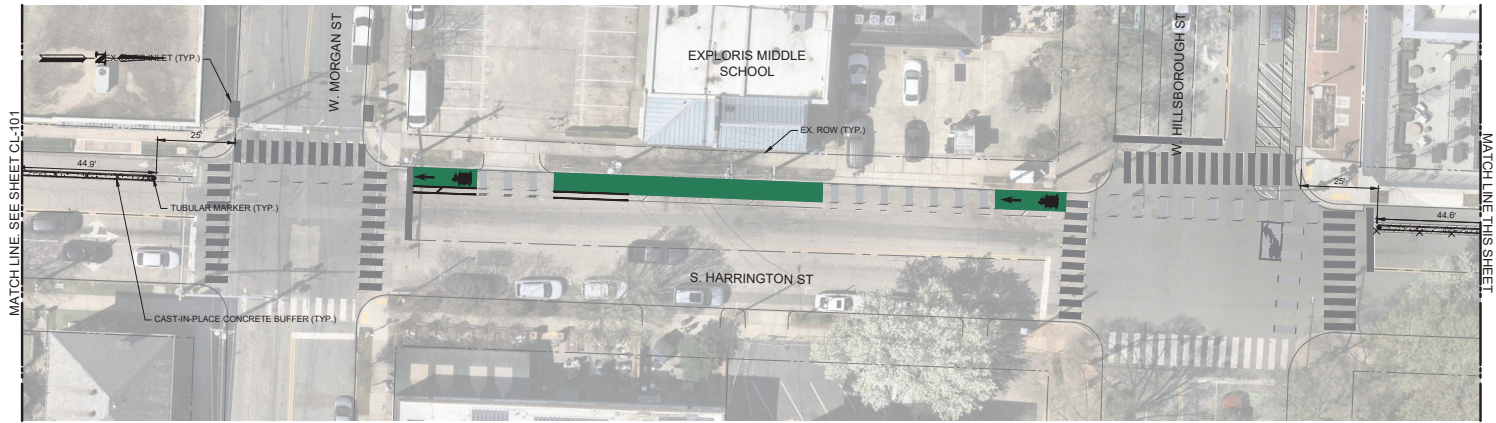
WEST AND HARRINGTON BIKE
LANE IMPROVEMENTS

CITY OF RALEIGH, NC

CIVIL

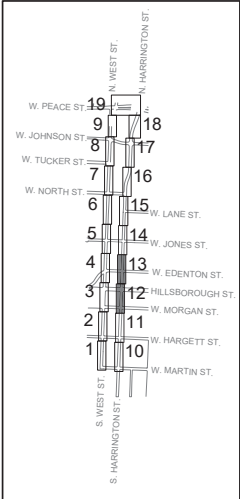
ROADWAY PLANS

PROJECT NO.	03RAL 00368.01
DATE	05.28.2026
DRAWING NO.	CL-101
SHEET NO.	23 OF 42



- NOTES:**
- SEE SHEET G-003 FOR CAST-IN-PLACE CONCRETE BUFFER PLACEMENT WITHIN EXISTING SEPARATED BIKE LANE.
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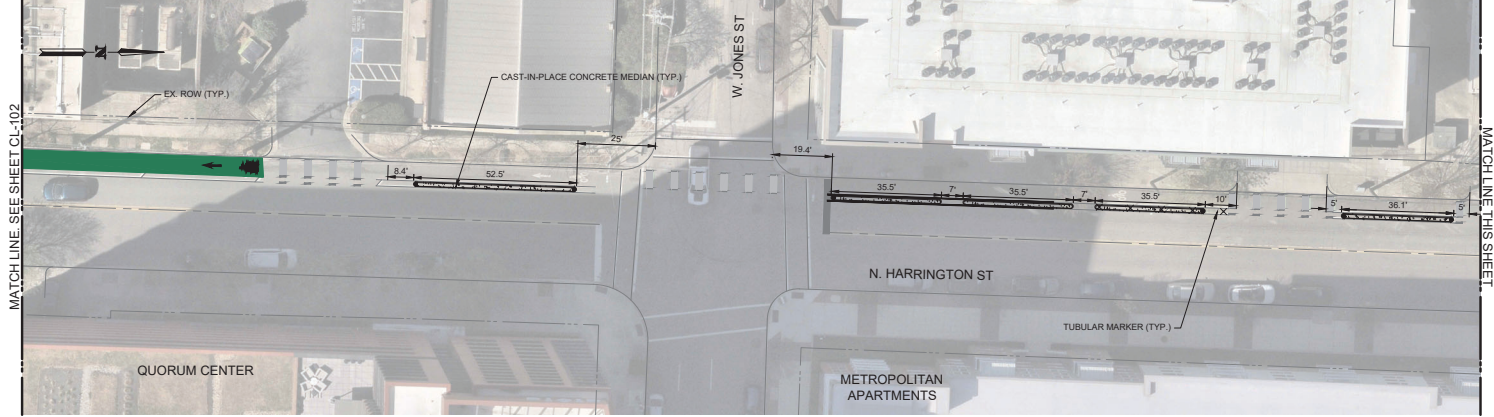
- LEGEND:**
- CAST-IN-PLACE CONCRETE MEDIAN
 - TUBULAR MARKER (NEW)
 - TUBULAR MARKER (TO BE RETAINED)
 - TUBULAR MARKER (TO BE REMOVED)
 - EXISTING CURB INLET



KEY MAP SCALE: 1"=1000'

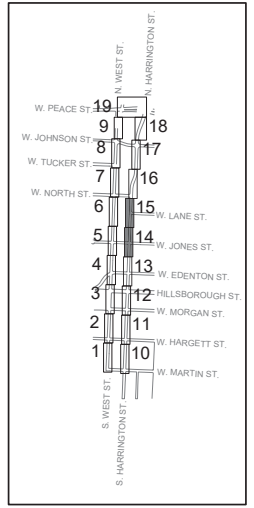
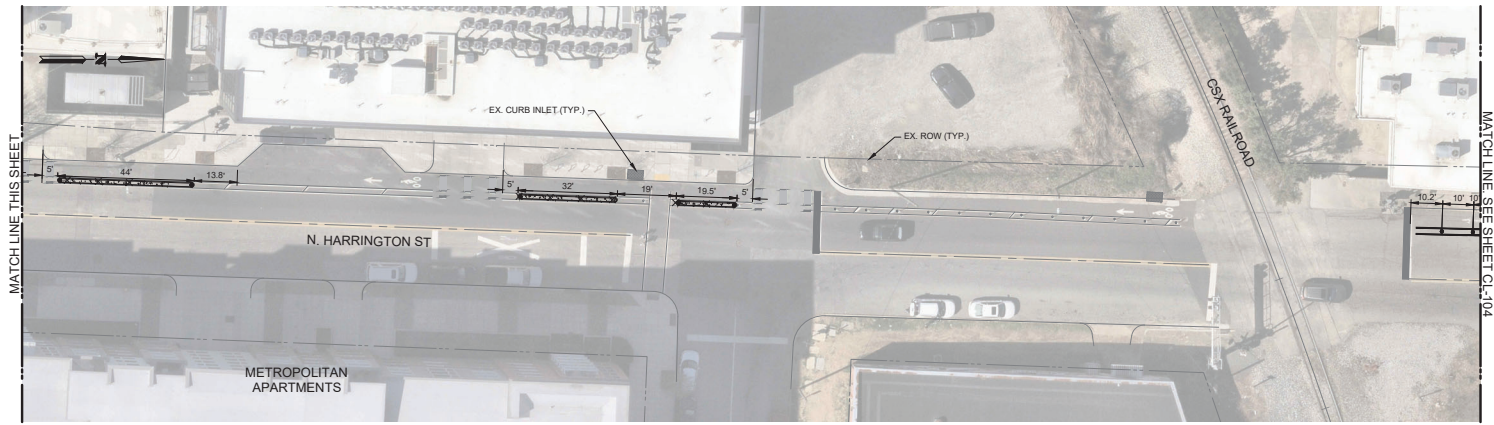
100% DESIGN SUBMISSION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS										TOOLE DESIGN Submitted by Transportation Design Group, LLP, an affiliate of Toole Design Group, LLC (#F-1337)		315 S. BLOODWORTH STREET RALEIGH, NC 27601 PHONE: 919.336.5010 www.tooledesign.com		WEST AND HARRINGTON BIKE LANE IMPROVEMENTS		CITY OF RALEIGH, NC		CIVIL				PROJECT NO.	
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		DSGN		JP																		DATE		05.28.20	
		DR		JP																		DRAWING NO.		CL-1	
		CHK		NB																				SHEET NO.	
		APVD		DM		NO.		DATE		REVISION				BY		APVD									



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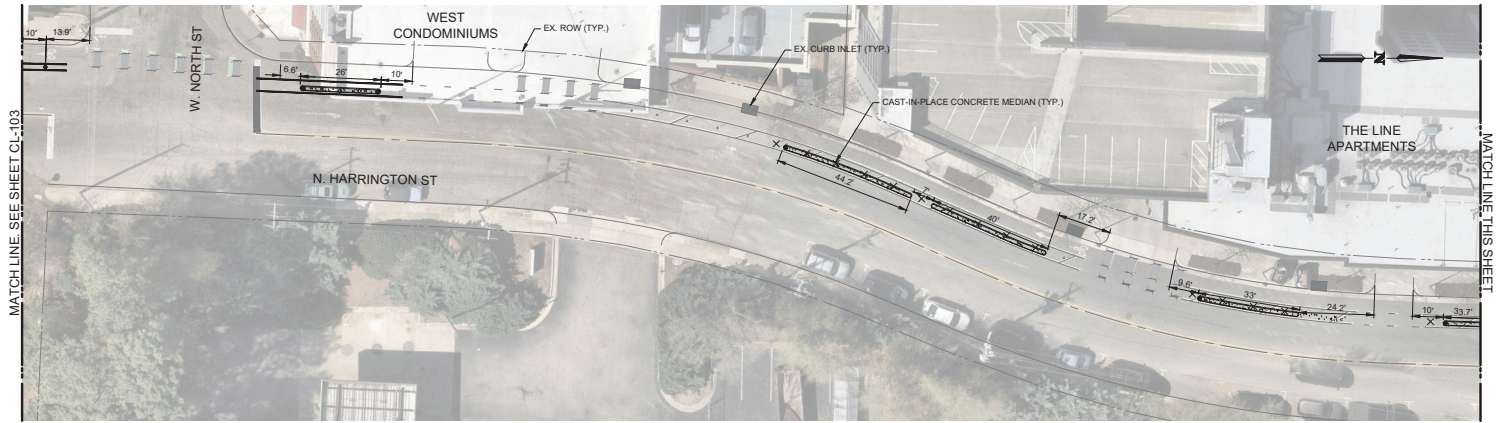
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100% DESIGN SUBMISSION

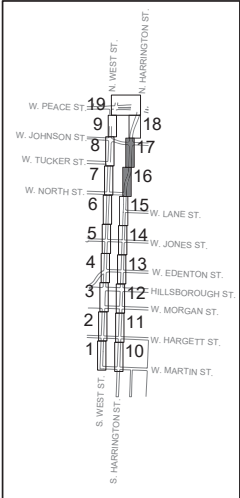
PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.	REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				TOOLE DESIGN Submitted by Transportation Design Group, LLP, an affiliate of Toole Design Group, LLC (#F-1337)	315 S. BLOODWORTH STREET RALEIGH, NC 27601 PHONE: 919.336.5010 www.tooledesign.com	WEST AND HARRINGTON BIKE LANE IMPROVEMENTS CITY OF RALEIGH, NC	CIVIL ROADWAY PLANS	PROJECT NO. 03RAL 00368.01
	DSGN	JP							DATE 05.28.2026
	DR	JP							DRAWING NO. CL-103
	CHK	NB							SHEET NO. 25 OF 42
	APVD	DM	NO.	DATE	REVISION	BY	APVD		

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- NOTES:**
- SEE SHEET G-003 FOR CAST-IN-PLACE CONCRETE BUFFER PLACEMENT WITHIN EXISTING SEPARATED BIKE LANE.
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 - TUBULAR MARKER (NEW)
 - TUBULAR MARKER (TO BE RETAINED)
 - TUBULAR MARKER (TO BE REMOVED)
 - EXISTING CURB INLET



KEY MAP SCALE: 1"=1000'

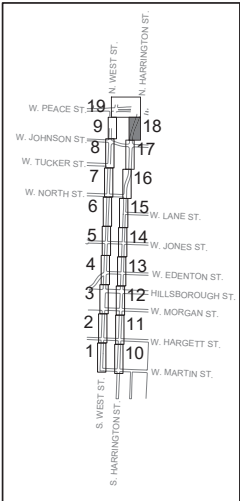
100% DESIGN SUBMISSION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS										TOOLE DESIGN Submitted by Transportation Design Group, LLP, an affiliate of Toole Design Group, LLC (#F-1337)		315 S. BLOODWORTH STREET RALEIGH, NC 27601 PHONE: 919.336.5010 www.tooledesign.com		WEST AND HARRINGTON BIKE LANE IMPROVEMENTS		CITY OF RALEIGH, NC		CIVIL		ROADWAY PLANS		PROJECT NO.						
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		DSGN	JP																											DATE
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APVD	DM	NO.	DATE															CL-104												
																				SHEET NO.										
																				26 OF 42										



- NOTES:**
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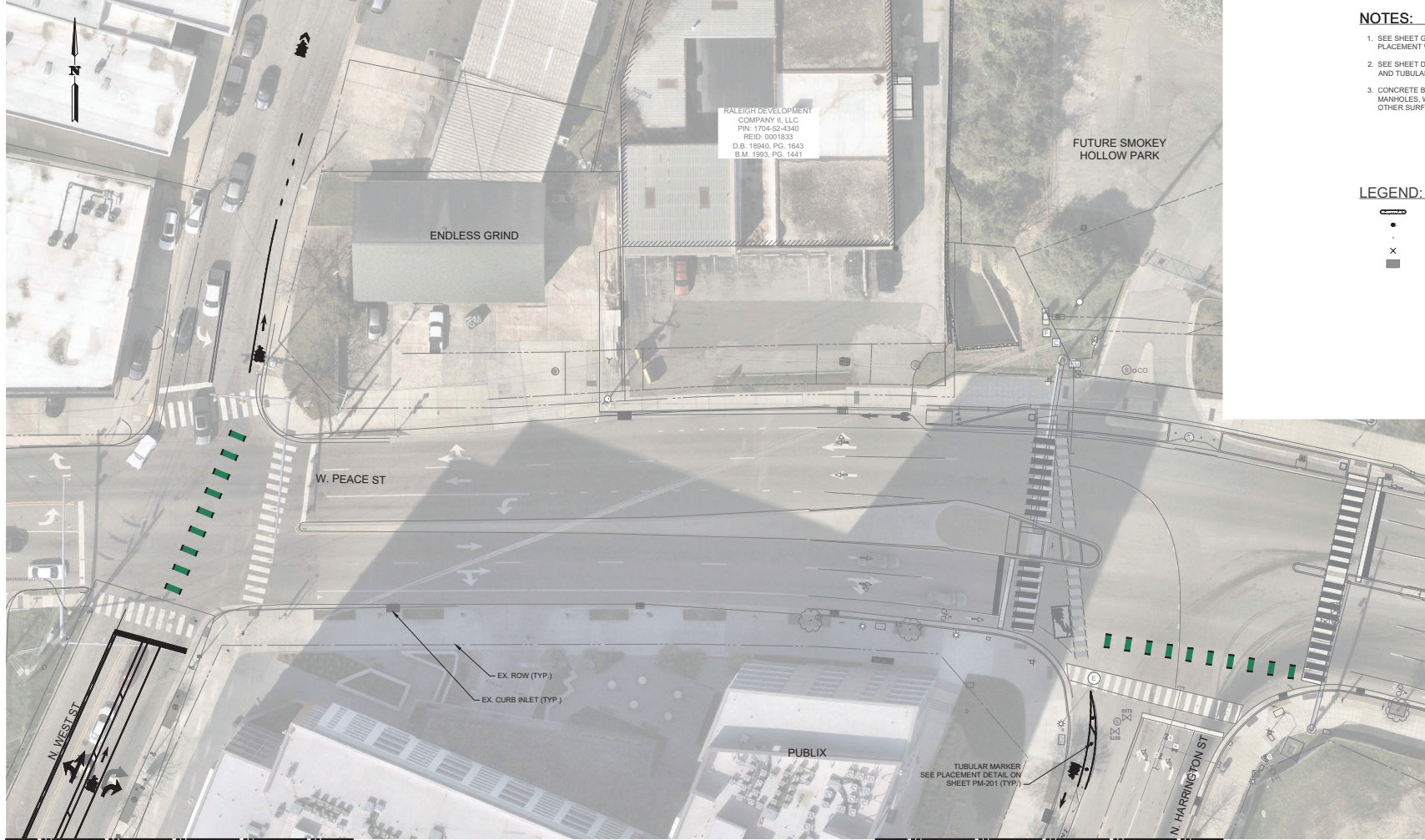


KEY MAP SCALE: 1"=1000'

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		DSGN	JP									DATE		05.28.20				
		DR	JP										DRAWING NO.		CL-1			
CHK	NB											SHEET NO.		27 OF 42				
APVD	DM	NO.	DATE	REVISION				BY	APVD									

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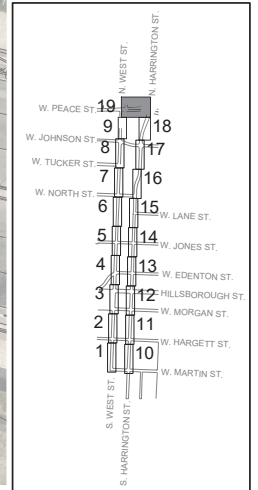


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CHK	NB				
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WEST AND HARRINGTON BIKE LANE IMPROVEMENTS

CITY OF RALEIGH, NC

CIVIL

ROADWAY PLANS

PROJECT NO.
03RAL 000001

DATE
05.28.2026

DRAWING NO.
CL-201

SHEET NO.
28 OF 42