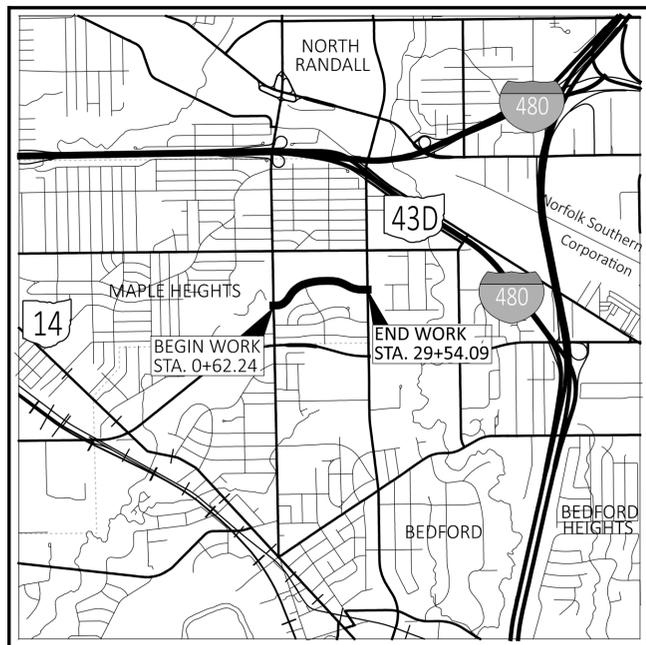


CUY-SOUTHGATE PARK BLVD
 MODEL: Sheet PAPER/SIZE: 34x22 (in.) DATE: 3/5/2026 TIME: 3:25:54 PM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_PDF.plt GIG PENITBL: OHDOT_PDF.plt USER: sia@cvelimited.com WORKSPACE: OHDOTCV02 WORKSET: 121941 PRODUCT: OpenRoadsDesigner 24.00.00.205
 P:\24110 Southgate Park Boulevard Reconstruction (TLCI)\121941\400-Engineering\Roadway\Sheets\121941_GT001.dgn



LOCATION MAP

LATITUDE: 41°24'52" N LONGITUDE: -81°31'56" W
SCALE IN MILES



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	—————

DESIGN DESIGNATION

CURRENT ADT (2026)	2,572
DESIGN YEAR ADT (2046)	2,572
DESIGN HOURLY VOLUME (2046)	249
DIRECTIONAL DISTRIBUTION	52%
TRUCKS (24 HOUR B&C)	178
DESIGN SPEED	25 MPH
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION	LOCAL ROAD
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

CHAGRIN VALLEY ENGINEERING, LTD.

Creative Engineers. Intelligent Solutions.
22999 Forbes Road, Suite B Cleveland, Ohio 44146-5667
Phone • 440.439.1999 Fax • 440.439.1969 www.cvelimited.com

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

CUY - SOUTHGATE PARK BLVD TLCI

CITY OF MAPLE HEIGHTS CUYAHOGA COUNTY

INDEX OF SHEETS:

TITLE SHEET	P.01
SCHEMATIC PLAN	P.02
TYPICAL SECTIONS	P.03
GENERAL NOTES	P.04 - P.11
MAINTENANCE OF TRAFFIC	P.12 - P.24
GENERAL SUMMARY	P.25 - P.26
SUBSUMMARIES	P.27 - P.33
PLAN VIEWS	P.34 - P.37
TRAFFIC CONTROL	P.38 - P.41
CURB RAMP DETAILS	P.42 - P.44
MISCELLANEOUS DETAILS	P.45

ENGINEER'S SEAL



OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS	
BP-2.1	1/21/22	MT-95.31	7/18/25	TC-21.21	7/18/25			800 07/18/25
BP-2.2	1/15/21	MT-95.32	7/18/25	TC-22.20	7/18/25			821 04/20/12
BP-2.5	7/19/24	MT-95.50	7/18/25	TC-41.30	4/21/23			832 07/19/24
BP-3.1	1/19/24	MT-97.10	7/18/25	TC-41.40	10/18/13			875 01/17/25
BP-5.1	7/18/25	MT-97.12	7/18/25	TC-41.41	7/19/19			821 07/19/24
BP-7.1	7/18/25	MT-99.20	4/19/19	TC-52.10	10/18/13			997 1/16/26
		MT-101.60	1/17/25	TC-52.20	1/15/21			999 1/16/26
CB-3	7/19/24	MT-101.90	7/17/20	TC-71.10	7/18/25			1035 01/15/16
CB-3A	7/19/24	MT-102.20	4/19/19	TC-71.10	7/21/23			1055 07/15/22
		MT-105.10	1/17/20	TC-87.10	1/16/26			1041 01/20/23
DM-1.1	1/17/25	MT-110.10	7/19/13					1126 01/17/25
DM-1.2	1/17/25	MT-120.00	7/19/24					
DM-4.4	1/15/16							

FEDERAL PROJECT NUMBER

E250869

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES ASPHALT RESURFACING ALONG APPROXIMATELY 0.56 MILES OF SOUTHGATE PARK BOULEVARD FROM WARRENSVILLE CENTER ROAD TO NORTHFIELD ROAD. WORK TASKS ALSO INCLUDE FULL AND PARTIAL DEPTH PAVEMENT REPAIRS, AS REQUIRED, UTILITY ADJUSTMENTS, ADA UPGRADES, NEW PAVEMENT MARKINGS, AND SIGNAGE FOR THE LENGTH OF THE CORIDOR.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	ACRES*

*ROUTINE MAINTENANCE PROJECT

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.16 .

John Picuri, P.E., P.S.
District 12 Deputy Director

Pamela Boratyn
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY



DESIGNER

RDS

REVIEWER

BAK 11/05/25

PROJECT ID

121941

SHEET TOTAL

P.01 45

TRAFFIC CONTROL

ITEM 631- RECTANGULAR RAPID FLASHING BEACON SIGN ASSEMBLY, SOLAR POWERED, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON SIGN ASSEMBLY. ALL WORK INCLUDING MATERIALS AND WARRANTY SHALL MEET THE REQUIREMENTS OF SS 997, SS 999, AND TC-87.10.

ITEM 632 - DETECTOR LOOP, AS PER PLAN

ALTHOUGH TRAFFIC SIGNAL DETECTOR LOOPS ARE TO BE INSTALLED AT THE END OF CONSTRUCTION, A PLAN SHOWING THE SIZE OF THE VARIOUS LOOPS HAS NOT BEEN INCLUDED IN THE PLANS. IN LIEU OF A TRAFFIC SIGNAL PLAN, THE CONTRACTOR SHALL, PRIOR TO THE START OF CONSTRUCTION, PREPARE AN INVENTORY AND LOG OF ANY AND ALL EXISTING DETECTOR LOOPS, FOR USE IN RESTORING THEM AT THE END OF CONSTRUCTION. HE SHALL DELIVER TWO COPIES OF THE INVENTORY AND LOG TO THE ENGINEER BEFORE BEGINNING ANY PAVEMENT REMOVALS.

ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL MATCH THE EXISTING LOOP. THE STOP LINE DETECTOR LOOPS SHALL NOT BE WIRED TO ANY OTHER LOOPS AND SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. SIGN R10-22 AND PAVEMENT MARKING FIGURE 9C-7 FROM PAGE 9C-10 IN SECTION 9C.05 OF THE OHIO MANUAL OF TRAFFIC CONTROL DEVICES SHALL BE INSTALLED TO DENOTE THE POWERHEAD LOCATION.

ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10.

ALL STOP LINE DETECTION SHALL BE TESTED FOR A BICYCLE TARGET AND ALL DILEMMA ZONES SHALL BE TESTED FOR A MOTORCYCLE TARGET.

THE ENGINEER WILL COORDINATE THE INSTALLATION OF THE DETECTOR LOOPS WITH THE CITY OF MAPLE HEIGHTS.

THE SIGNAL CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE INSTALLATION OF VEHICLE DETECTION LOOPS FOR ASSISTANCE IN LOCATION MARKING.

INSTALLATION IN CONCRETE PAVEMENT:
LOOP DETECTORS INSTALLED IN CONCRETE PAVEMENT SHALL BE PRE-FORMED HEAVY DUTY RUBBER LOOP DETECTORS (MANUFACTURED BY DE-TECH OR APPROVED EQUAL). THE PRE-FORMED LOOPS INSTALLED IN CONCRETE SHALL HAVE AN ADDITIONAL TURN OF WIRE OVER STANDARD LOOPS. THE LOOPS ARE TO BE TYE-WRAPPED TO THE REBAR OR DRAPED UNDER THE MESH. LOOPS SHOULD BE SECURED AT EVERY POINT THAT IT CROSSES REBAR OR EVERY FOOT MAXIMUM. LOOPS SHOULD NOT BE COVERED BY MORE THAN 8" OF CONCRETE. THE LOOPS SHALL BE CONSTRUCTED USING 3/8" SYNTHETIC CORD REINFORCED HYDRAULIC HOSE WITH A 250 PSI INTERNAL PRESSURE RATING.

INSTALLATION IN ASPHALT PAVEMENT:
THE INSTALLATION OF POURED EPOXY INSULATED SPLICES BETWEEN THE LOOP DETECTOR WIRES AND THE LOOP DETECTOR LEAD IN CABLE SHALL BE CONSIDERED AS INCIDENTAL TO THIS ITEM OF WORK. NO SEPARATE PAYMENT FOR THESE SPLICES WILL BE MADE. NO PAYMENT SHALL BE MADE FOR ANY LOOP NOT INSTALLED ACCORDING TO SPECIFICATIONS.

THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY AS A CONTINGENCY QUANTITY WHICH IS INCLUDED FOR USE ONLY AND IN AMOUNTS AS DIRECTED BY THE ENGINEER. THE PROVISIONS OF SECTION 104.02 WILL APPLY TO THIS ITEM. THE AMOUNT OF THIS ITEM AND THE LOCATIONS WHERE USED SHALL BE RECORDED AS USED, AND PAYMENT WILL BE BASED ON FINAL MEASUREMENTS.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, ALL LOOPS TO BE INSTALLED SHALL BE 6' BY 30'

ITEM 632 - DETECTOR LOOP, AS PER PLAN	9 EACH
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GENERAL NOTES

DESIGN AGENCY



DESIGNER

RDS

REVIEWER

BAK 11/05/25

PROJECT ID

121941

SHEET TOTAL

P.10 | 45

SHEET NO.	REF. NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)			630	630	630	630	631	625	632						
						L	x	H	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN. FLAT SHEET	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	RECTANGULAR RAPID FLASHING BEACON SIGN ASSEMBLY, SOLAR POWERED, AS PER PLAN	GROUND ROD	PEDESTAL FOUNDATION						
38	S-1	SOUTHGATE PARK BLVD	01+24	RT	R3-17	24	x	18		3.0	2										
					R3-17aP	24	x	8		1.4											
38	S-2	SOUTHGATE PARK BLVD	01+50	LT	R3-H8bh	36	x	30	13.5	7.5											
38	S-3	SOUTHGATE PARK BLVD	01+77	LT	R3-9b	24	x	36	16.0	6.0											
					R3-9dP	30	x	12		2.5											
					R3-17	24	x	18		3.0											
38	S-4	SOUTHGATE PARK BLVD	02+06	RT	R3-9b	24	x	36	13.5	6.0											
					R3-9cP	30	x	12		2.5											
38	S-5	SOUTHGATE PARK BLVD	02+72	RT	R3-17	24	x	18		3.0	1										
38	S-6	SOUTHGATE PARK BLVD	03+78	LT	R3-17	24	x	18	13.5	3.0											
38	S-7	SOUTHGATE PARK BLVD	04+50	LT	R3-17	24	x	18	13.5	3.0											
38	S-8	SOUTHGATE PARK BLVD	04+50	RT	W11-2L	30	x	30	13.5	6.3											
					W16-9P	24	x	12		2.0											
38	RRFB-1	SOUTHGATE PARK BLVD	06+17	LT								1	1	1							
38	RRFB-2	SOUTHGATE PARK BLVD	06+18	RT								1	1	1							
39	S-9	SOUTHGATE PARK BLVD	07+53	LT	W11-2L	30	x	30	13.5	6.3											
					W16-9P	24	x	12		2.0											
39	S-10	SOUTHGATE PARK BLVD	08+33	LT	R3-17	24	x	18	13.5	3.0											
39	S-11	SOUTHGATE PARK BLVD	08+62	RT	R3-17	24	x	18		3.0	1										
39	S-12	SOUTHGATE PARK BLVD	09+17	LT	R3-9b	24	x	36	13.5	6.0											
39	S-13	SOUTHGATE PARK BLVD	09+80	RT	R3-H8bh	36	x	30		7.5	1										
39	S-14	SOUTHGATE PARK BLVD	12+44	LT	R3-H8bh	36	x	30		7.5	1										
39	S-15	SOUTHGATE PARK BLVD	13+50	RT	R3-17	24	x	18	13.5	3.0											
39	S-16	SOUTHGATE PARK BLVD	13+63	LT	R3-17	24	x	18		3.0	1										
39	S-17	SOUTHGATE PARK BLVD	13+91	RT	R3-9b	24	x	36		6.0	1										
39	S-18	SOUTHGATE PARK BLVD	15+44	LT	R3-9b	24	x	36		6.0	1										
38	S-19	SOUTHGATE PARK BLVD	16+14	RT	W11-2L	30	x	30	13.5	6.3											
39					W16-9P	24	x	12		2.0											
40	RRFB-3	SOUTHGATE PARK BLVD	18+04	RT								1	1	1							
40	RRFB-4	SOUTHGATE PARK BLVD	18+05	LT								1	1	1							
40	S-20	SOUTHGATE PARK BLVD	18+38	RT	R3-17	24	x	18		3.0	1										
40	S-21	SOUTHGATE PARK BLVD	18+48	LT	R3-17	24	x	18		3.0	1										
40	S-22	SOUTHGATE PARK BLVD	19+06	LT	W11-2L	30	x	30	13.5	6.3											
					W16-9P	24	x	12		2.0											
40	S-23	SOUTHGATE PARK BLVD	19+96	LT	R3-9b	24	x	36		6.0	1										
40	S-24	SOUTHGATE PARK BLVD	21+51	RT	R3-17	24	x	18		3.0	1										
40	S-25	SOUTHGATE PARK BLVD	21+55	LT	R3-17	24	x	18		3.0	1										
40	S-26	SOUTHGATE PARK BLVD	24+85	RT	R3-17	24	x	18		3.0	1										
40	S-27	SOUTHGATE PARK BLVD	27+01	LT	R3-17	24	x	18	13.5	3.0											
40	S-28	SOUTHGATE PARK BLVD	27+33	LT	R3-9b	24	x	36	13.5	6.0											
					R3-9cP	30	x	12		2.5											
41	S-29	SOUTHGATE PARK BLVD	28+30	RT	R3-17	24	x	18	16.0	3.0											
					R3-9dP	30	x	12		2.5											
					R3-9b	24	x	36		6.0											
41	S-30	SOUTHGATE PARK BLVD	28+67	RT	R3-H8bd	30	x	30		6.3	1										
SUBTOTALS THIS SHEET CARRIED TO SHEET 29									207.5	169.4	16	0	4	4	4						

SIGNING SUBSUMMARY

DESIGN AGENCY

CHAGRIN VALLEY ENGINEERING, LTD.

DESIGNER
RDS

REVIEWER
BAK 11/05/25

PROJECT ID
121941

SHEET TOTAL
P.28 45

SHEET NO.	REF NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)			630	630	630	631	625	632							
						L	x	H	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	RECTANGULAR RAPID FLASHING BEACON SIGN ASSEMBLY, SOLAR POWERED, AS PER PLAN	GROUND ROD	PEDESTAL FOUNDATION						
41	S-31	SOUTHGATE PARK BLVD	29+01	LT	R3-17 R3-17aP	24 24	x x	18 8	13.5	3.0 1.4	EACH	EACH	EACH	EACH							
40	R-1	SOUTHGATE PARK BLVD	27+41	RT								1									
SUBTOTALS THIS SHEET									13.5	4.4	0	1	0	0	0						
SUBTOTALS CARRIED FROM SHEET 28									207.5	169.4	16	0	4	4	4						
SUBTOTALS CARRIED TO GENERAL SUMMARY									221.0	173.8	16	1	4	4	4						

SIGNING SUBSUMMARY

DESIGN AGENCY

CHAGRIN VALLEY ENGINEERING, LTD.

DESIGNER
RDS

REVIEWER
BAK 11/05/25

PROJECT ID
121941

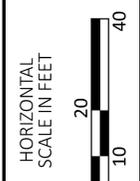
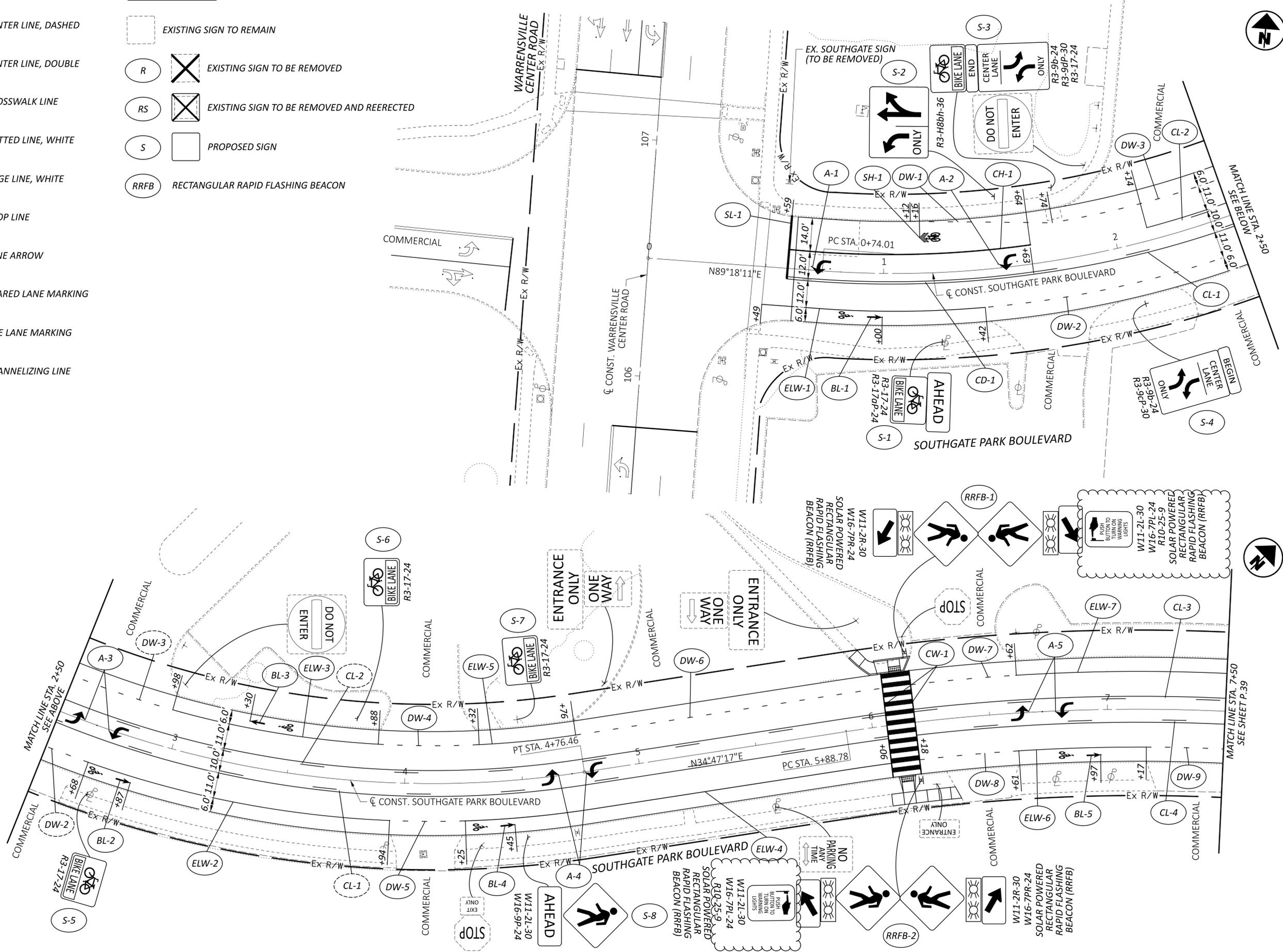
SHEET TOTAL
P.29 | 45

LEGEND

- CL - CENTER LINE, DASHED
- CD - CENTER LINE, DOUBLE
- CW - CROSSWALK LINE
- DW - DOTTED LINE, WHITE
- ELW - EDGE LINE, WHITE
- SL - STOP LINE
- A - LANE ARROW
- SH - SHARED LANE MARKING
- BL - BIKE LANE MARKING
- CH - CHANNELIZING LINE

SIGNING LEGEND

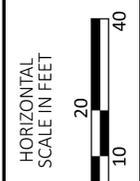
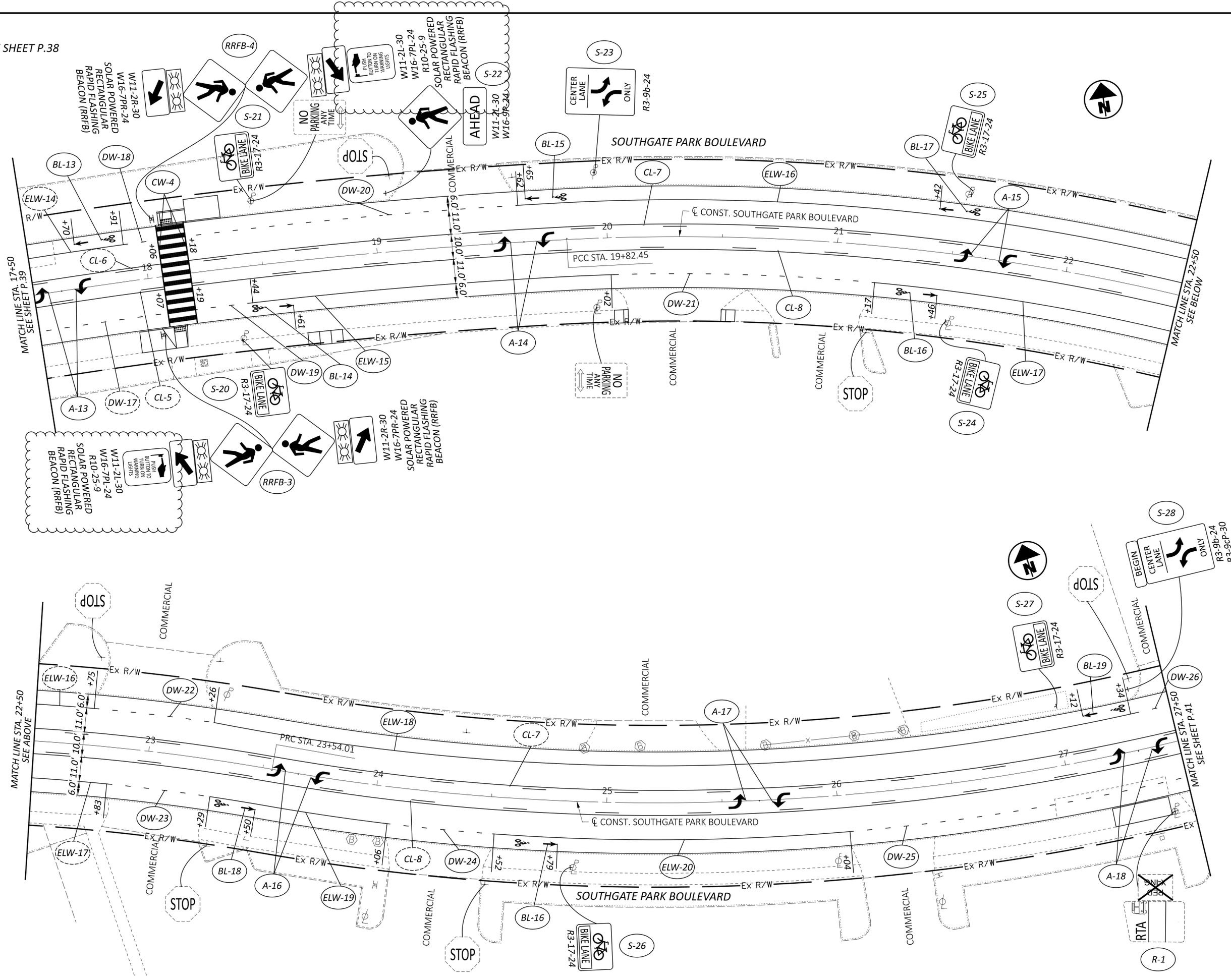
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE REMOVED AND REERECTED
- PROPOSED SIGN
- RECTANGULAR RAPID FLASHING BEACON



TRAFFIC CONTROL PLAN - SOUTHGATE PARK BOULEVARD
BEGIN TO STA. 7+50

DESIGN AGENCY	
DESIGNER	RDS
REVIEWER	BAK 11/05/25
PROJECT ID	121941
SHEET TOTAL	P.38 45

NOTE:
FOR LEGEND, SEE SHEET P.38



TRAFFIC CONTROL PLAN - SOUTHGATE PARK BOULEVARD
STA. 17+50 TO STA. 27+50



DESIGN AGENCY	CHAGRIN VALLEY ENGINEERING, LTD.
DESIGNER	RDS
REVIEWER	BAK 11/05/25
PROJECT ID	121941
SHEET	P.40
TOTAL	45