

6 Phase Fully Actuated NC 8 (Winston Road) CLS Signal System #:D09-19.Lexington NOTES

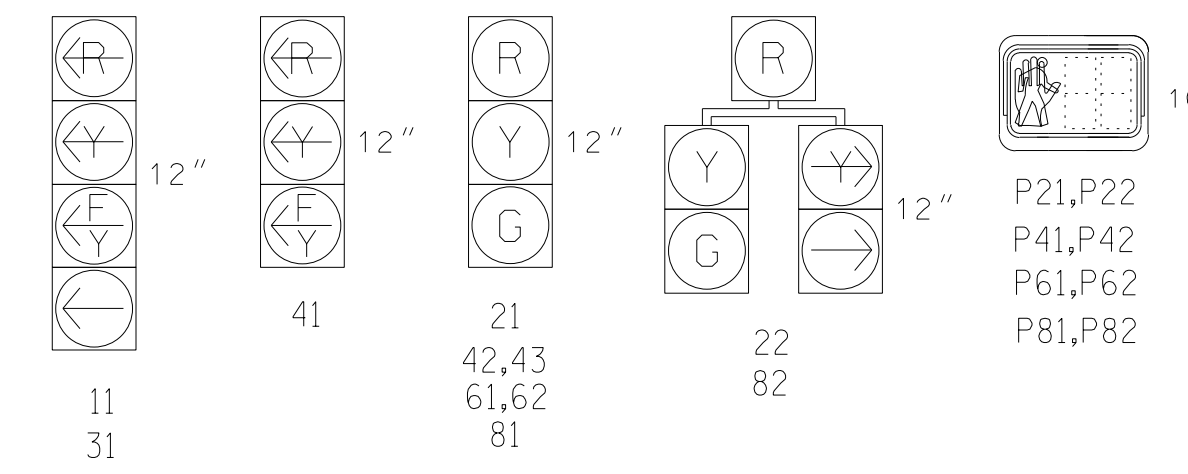
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or Phase 5 may be lagged.
- Phase 3 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Reconnect and unbag Pedestrian Heads P41, P42, P61, P62, P81 & P82.
- Remove "LEFT LANE ENDS 300 FEET" sign from Metal Pole #8.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP/ZONE	PROGRAMMING						
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	DELAY DURING GREEN	NEW CARD
1A	6X40	0	2-4-2	X	1 15.0**	-	X	-	X	-	-
1B	6X40	0	2-4-2	-	1 15.0	-	X	-	X	-	-
2A	6X6	200	*	*	2 -	-	X	X	X	-	-
2B	6X6	200	*	*	2 -	-	X	X	X	-	-
3A	6X40	0	2-4-2	-	3 15.0	-	X	-	X	-	-
4A	6X40	0	2-4-2	-	4 3.0	-	X	-	X	-	-
4B	6X40	0	2-4-2	-	4 10.0	-	X	-	X	-	-
4C	6X6	0	4	-	4 15.0	-	X	-	X	-	-
5A	6X40	0	2-4-2	-	5 15.0**	-	X	-	X	-	-
6A	6X6	200	4	X	6 -	-	X	X	X	-	-
6B	6X6	200	4	X	6 -	-	X	X	X	-	-
8A	6X40	0	2-4-2	-	8 -	-	X	-	X	-	-

*Video Detection Zone
 **Disable delay during alternate phasing operation
 # Disable phase call for loop(s) during alternate phasing operation

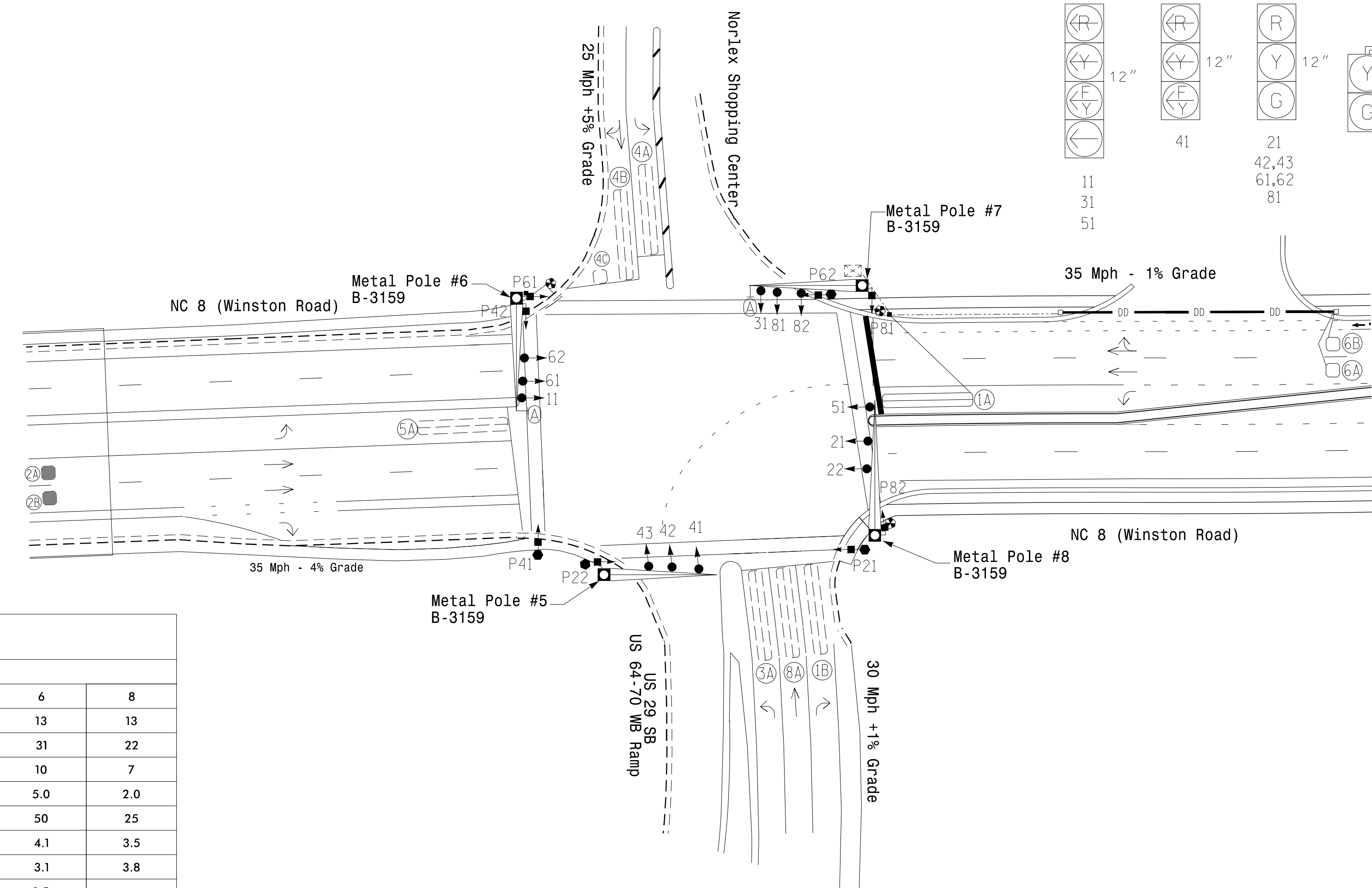
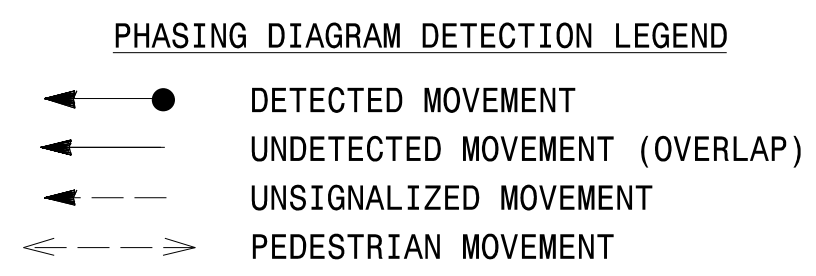
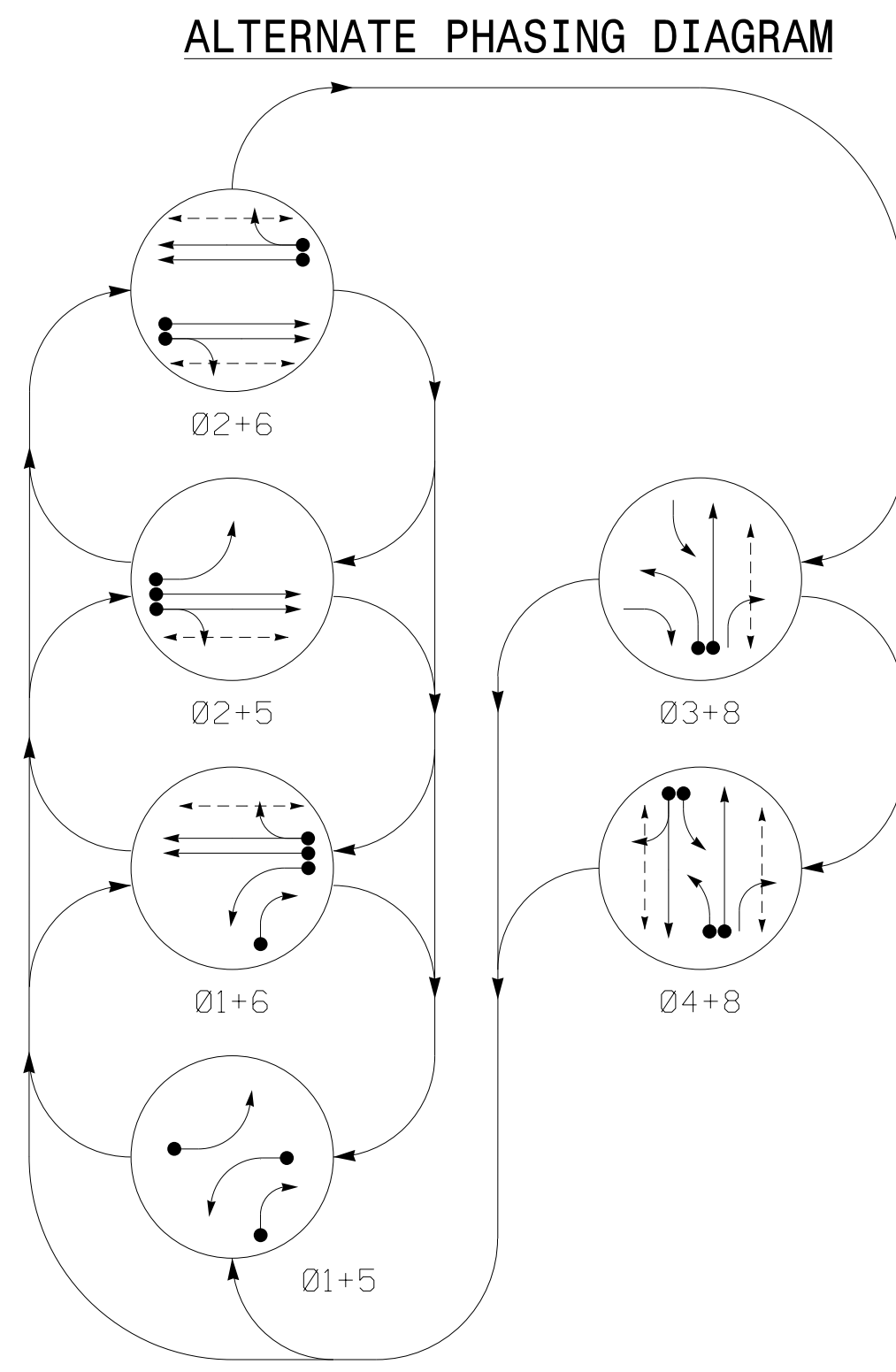
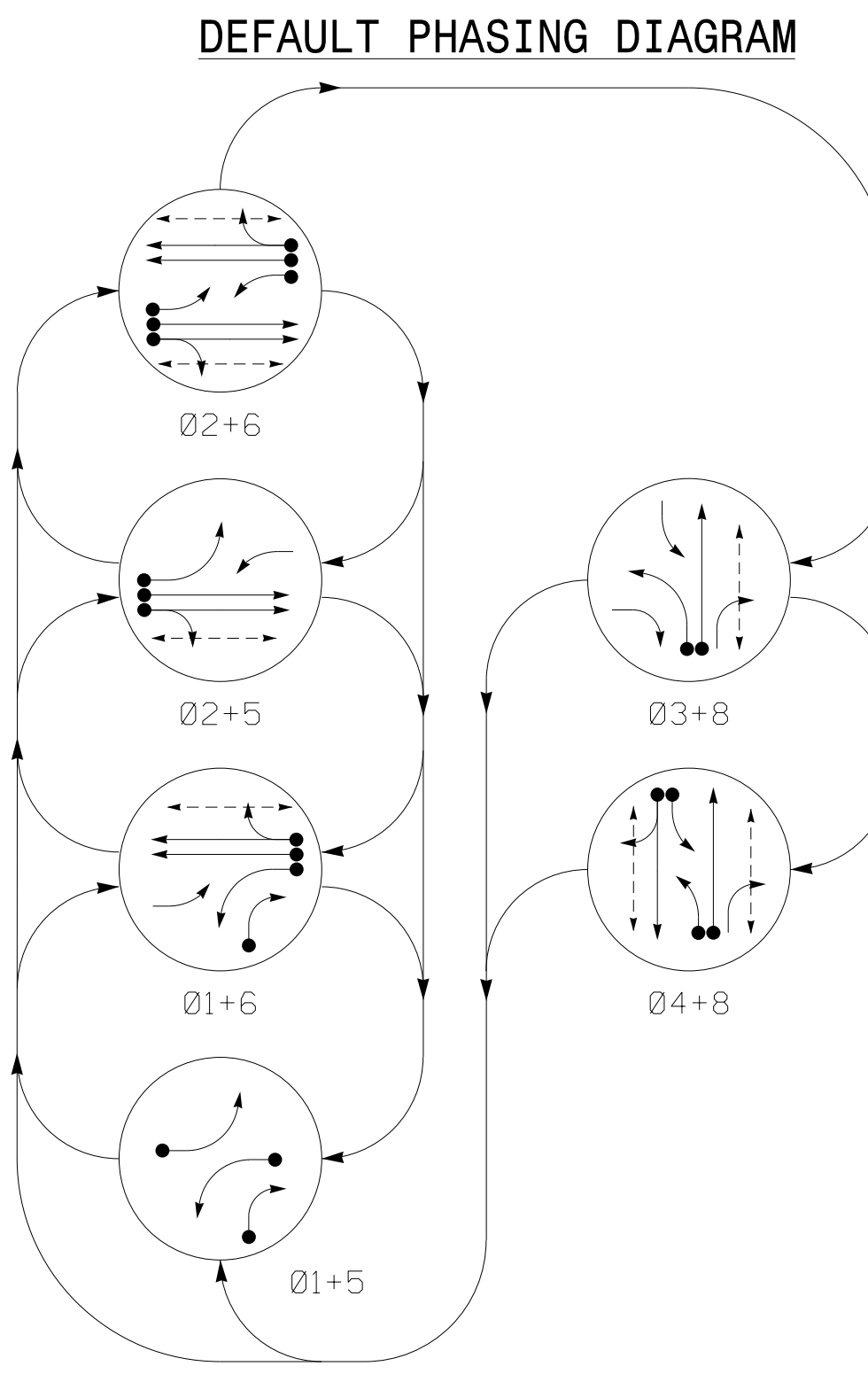
SIGNAL FACE I.D.

All Heads L.E.D.



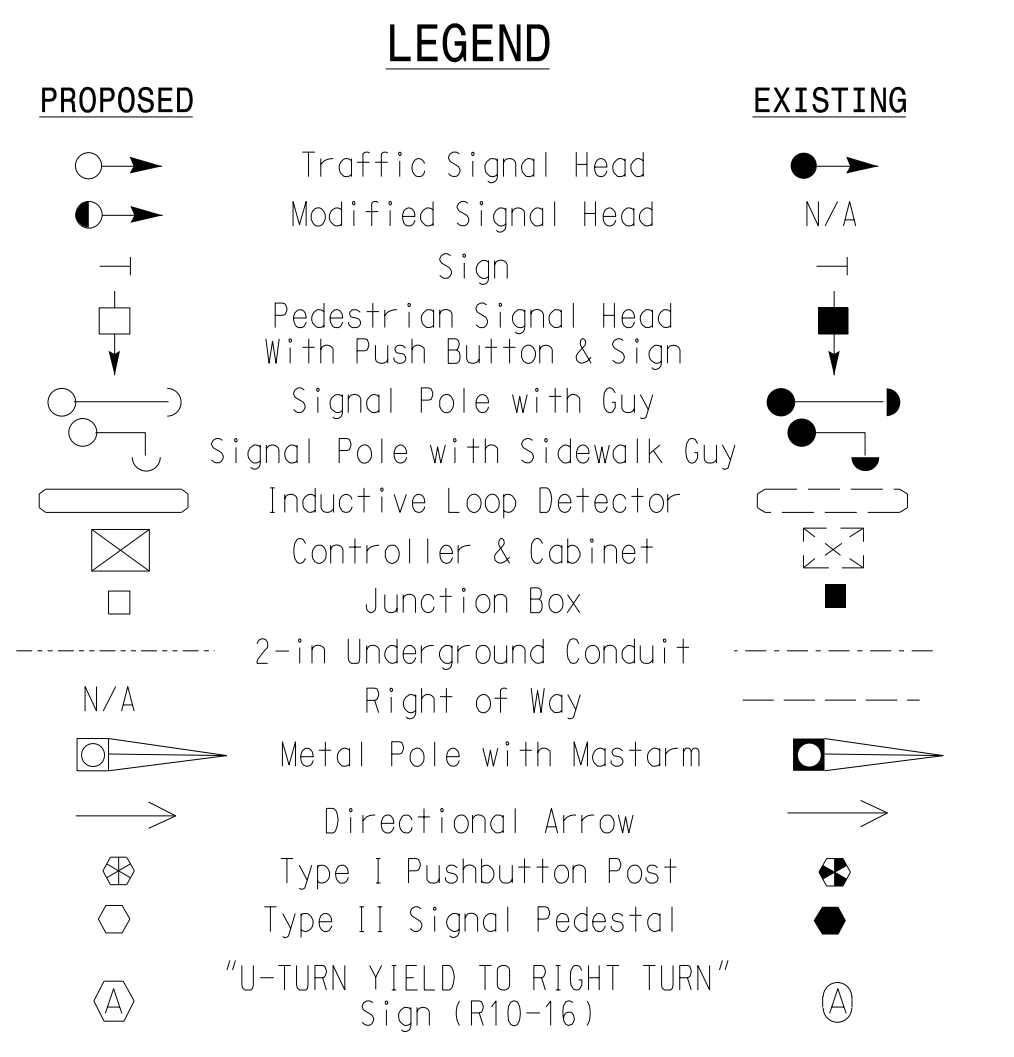
SIGNAL FACE	PHASE							
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3+8	Ø4+8	Ø4+8	F L H S H S H
11	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	Y	Y
22	R	R	G	G	R	R	Y	Y
31	←	←	←	←	←	←	←	←
41	←	←	←	←	←	←	←	←
42,43	R	R	R	R	R	R	G	R
51	←	←	←	←	←	←	←	←
61,62	R	G	R	G	R	R	Y	Y
81	R	R	R	R	G	G	R	R
82	R	R	R	R	G	G	R	R
P21,P22	DW	DW	W	W	DW	DW	DRK	DRK
P41,P42	DW	DW	DW	DW	DW	W	DRK	DRK
P61,P62	DW	W	DW	W	DW	DW	DRK	DRK
P81,P82	DW	DW	DW	DW	W	W	DRK	DRK

SIGNAL FACE	PHASE							
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3+8	Ø4+8	Ø4+8	F L H S H S H
11	←	←	←	←	←	←	←	←
21	R	R	G	G	R	R	Y	Y
22	R	R	G	G	R	R	Y	Y
31	←	←	←	←	←	←	←	←
41	←	←	←	←	←	←	←	←
42,43	R	R	R	R	R	R	G	R
51	←	←	←	←	←	←	←	←
61,62	R	G	R	G	R	R	Y	Y
81	R	R	R	R	G	G	R	R
82	R	R	R	R	G	G	R	R
P21,P22	DW	DW	W	W	DW	DW	DRK	DRK
P41,P42	DW	DW	DW	DW	DW	W	DRK	DRK
P61,P62	DW	W	DW	W	DW	DW	DRK	DRK
P81,P82	DW	DW	DW	DW	W	W	DRK	DRK



FEATURE	PHASE							
	1	2	3	4	5	6	8	
Walk *	-	13	-	13	-	13	13	
Ped Clear *	-	25	-	25	-	31	22	
Min Green *	7	10	7	7	7	10	7	
Passage *	2.0	5.0	2.0	2.0	2.0	5.0	2.0	
Max I *	20	50	20	25	15	50	25	
Yellow Change	3.0	4.1	3.0	3.5	3.0	4.1	3.5	
Red Clear	3.4	3.1	3.8	3.8	3.2	3.1	3.8	
Added Initial *	-	1.5	-	-	-	1.5	-	
Maximum Initial *	-	24	-	-	-	24	-	
Time Before Reduction *	-	15	-	-	-	15	-	
Time To Reduce *	-	30	-	-	-	30	-	
Minimum Gap	-	3.0	-	-	-	3.0	-	
Advance Walk	-	6	-	6	-	6	6	
Non Lock Detector	X	-	X	X	X	-	X	
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL	-	
Dual Entry	-	-	-	X	-	-	X	

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Office of: **NC 8 (Winston Road) at US 29 SB/US 64-70 WB Ramp**

Division 9 Davidson County Lexington

PLAN DATE: May 2024 REVIEWED BY: G.G. Murr, Jr.

PREPARED BY: B.E. Wynn REVIEWED BY:

REVISIONS: _____ INIT. DATE

SCALE: 1"=40'

1 Glenwood Avenue Raleigh, NC 27603 Tel: 919.789.9977 Fax: 919.789.9591 License: F-0453

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 14543

SIGNATURE: G.G. Murr, Jr.

SIG. INVENTORY NO. 09-0735