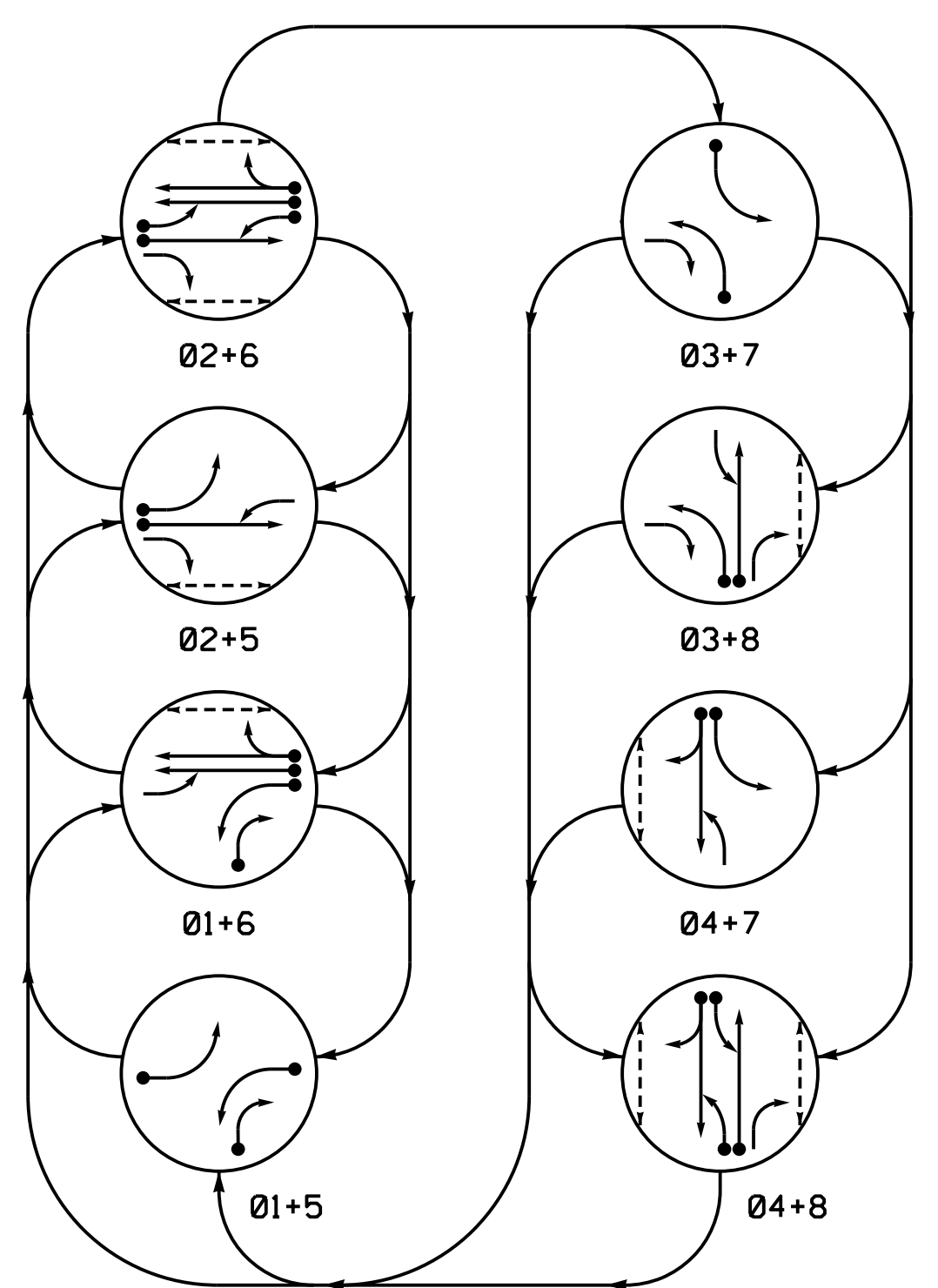
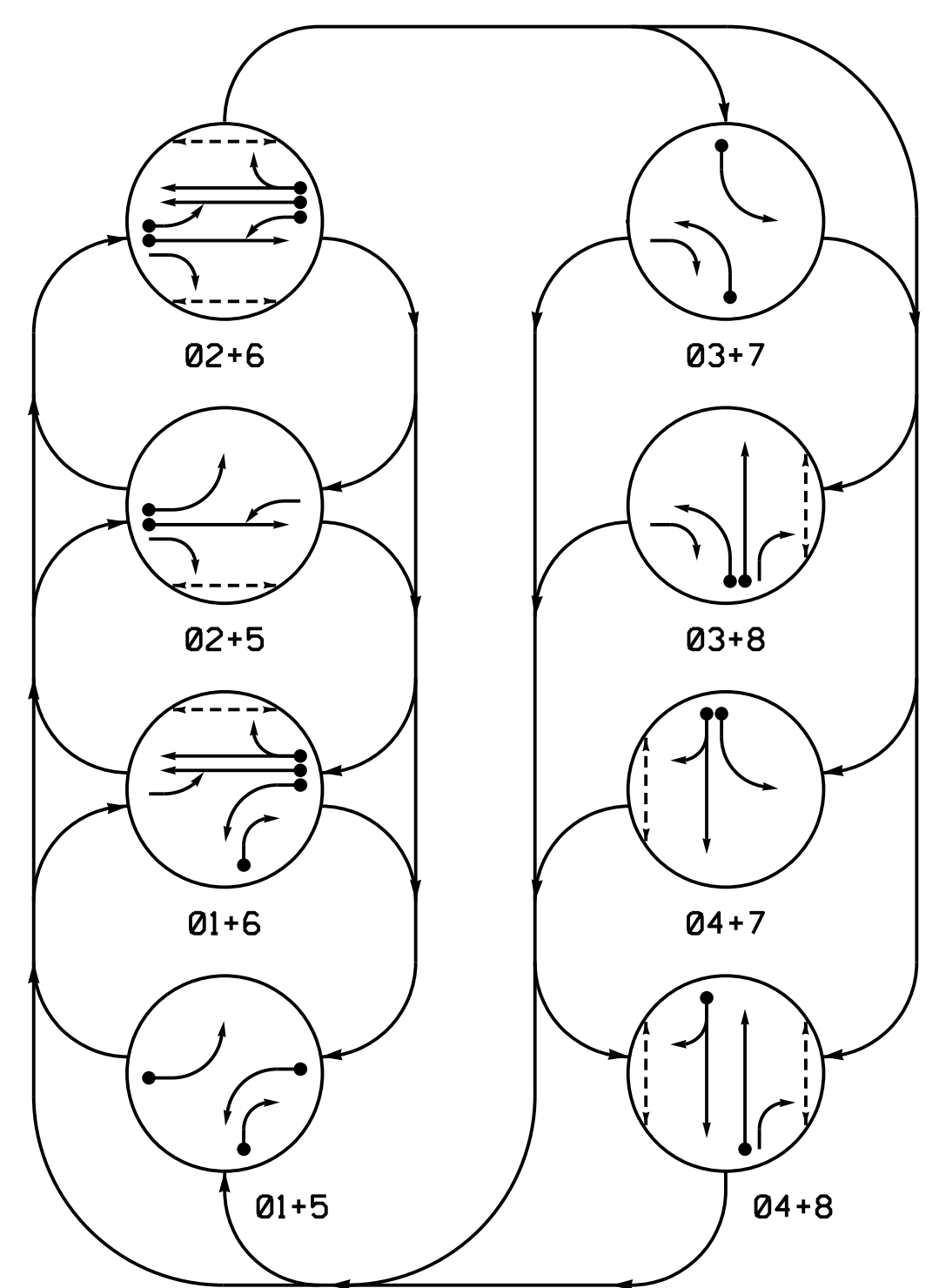


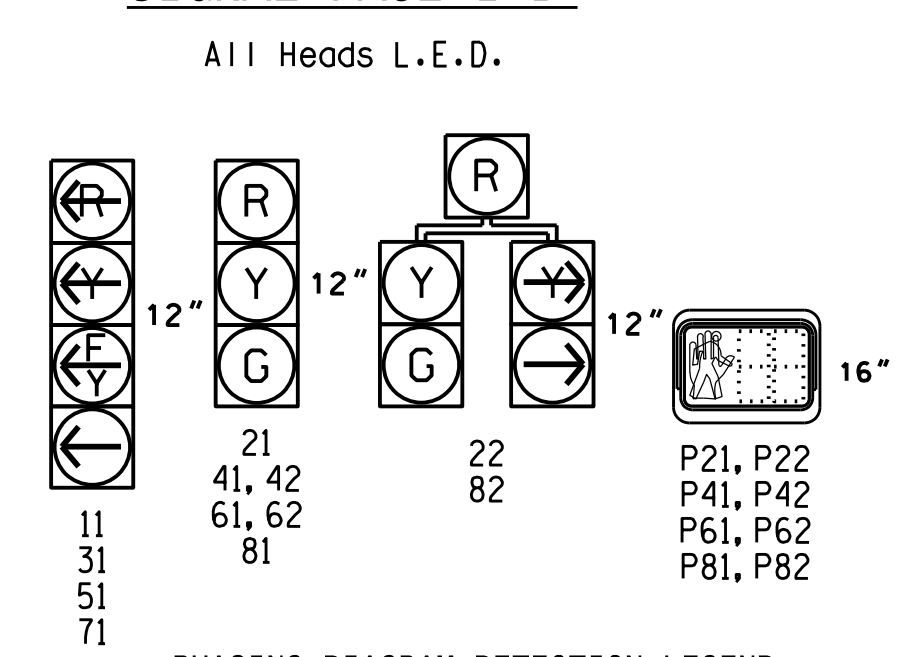
DEFAULT PHASING DIAGRAM



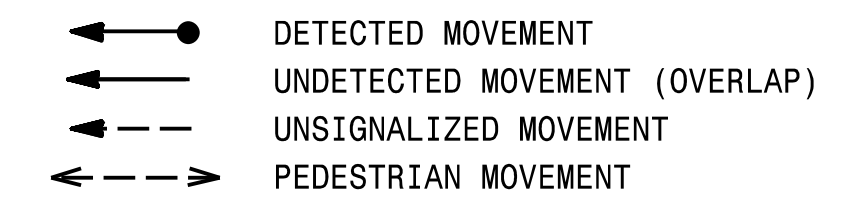
ALTERNATE PHASING DIAGRAM



SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND



MAXTIME DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	6X40	0	2-4-2	Y	1	15.0	-	Y	-	Y	-	Y
1B	6X40	0	2-4-2	Y	1	15.0	-	Y	-	Y	-	Y
2A	6X6	70	4	Y	2	-	-	Y	-	Y	-	Y
3A	6X40	0	2-4-2	Y	3	15.0 ⁺	-	Y	-	Y	-	Y
4A	6X40	0	2-4-2	Y	4	10.0	-	Y	-	Y	-	Y
5A	6X40	0	2-4-2	Y	5	15.0	-	Y	-	Y	-	Y
6A	6X6	70	3	Y	6	-	-	Y	-	Y	-	Y
6B	6X6	70	3	Y	6	-	-	Y	-	Y	-	Y
7A	6X40	0	2-4-2	Y	7	15.0 ⁺	-	Y	-	Y	-	Y
8A	6X40	0	2-4-2	Y	8	-	-	Y	-	Y	-	Y

8 Phase Fully Actuated with Alternate Phasing Operation US 74 Indian Trail CLS

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 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 and/or Phase 7 may be lagged.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Portions of high-visibility crosswalk masked for clarity.
- Closed loop system data: Controller Asset #2336.

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	
11	-	-	F	F	R	R	R	R	Y
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R	R	R	R	Y
31	R	R	R	R	-	-	F	F	R
41, 42	R	R	R	R	R	R	G	G	R
51	-	F	-	F	R	R	R	R	Y
61, 62	R	G	R	G	R	R	R	R	Y
71	R	R	R	R	-	-	F	F	R
81	R	R	R	R	G	R	G	R	R
82	R	R	R	R	G	R	G	R	R
P21, P22	DW	DW	W	W	DW	DW	DW	DRK	
P41, P42	DW	DW	DW	DW	DW	DW	W	DRK	
P61, P62	DW	W	DW	W	DW	DW	DW	DRK	
P81, P82	DW	DW	DW	DW	DW	W	DRK		

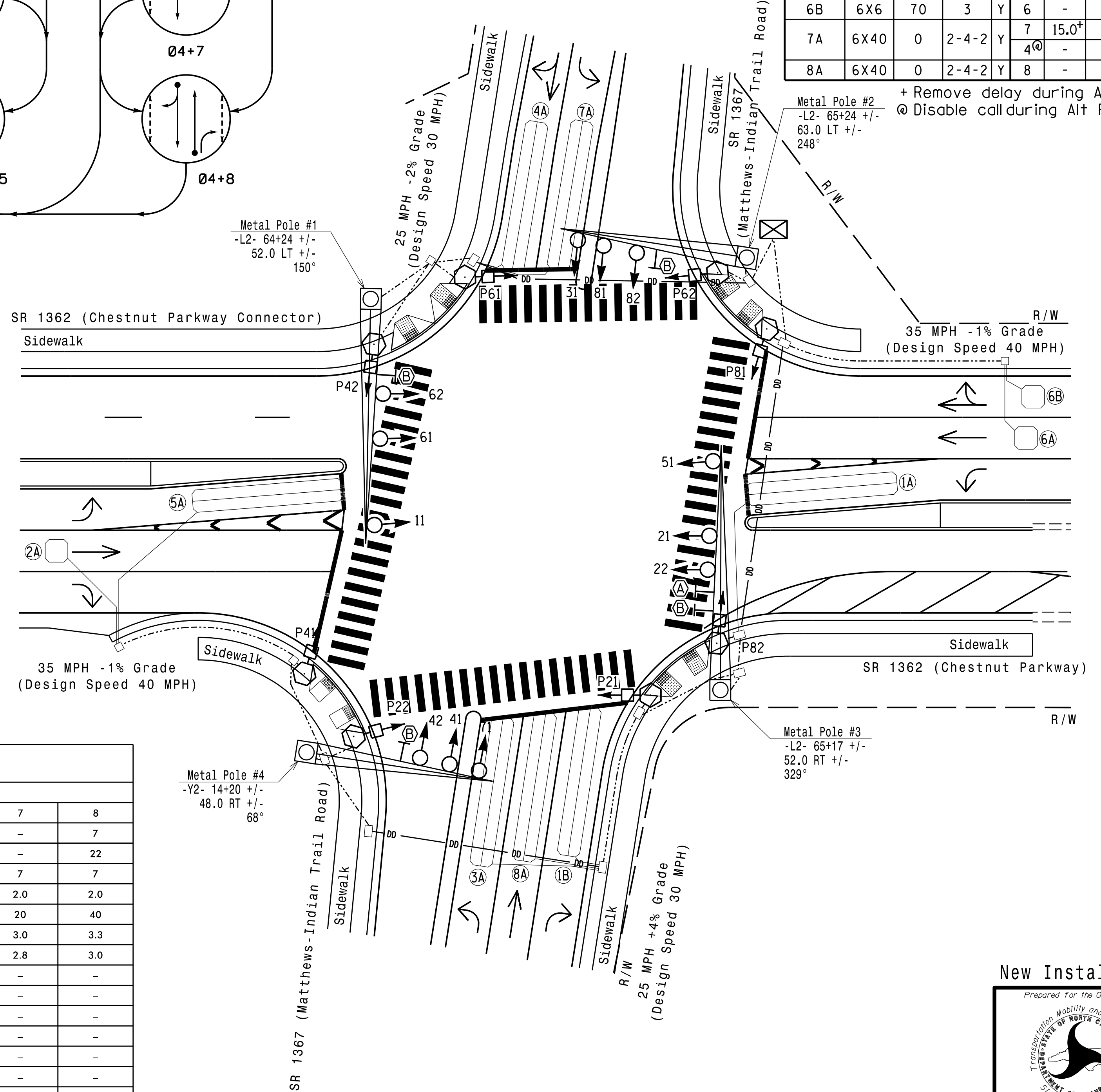
ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	
11	-	-	F	F	R	R	R	R	Y
21	R	R	G	G	R	R	R	R	Y
22	R	R	G	G	R	R	R	R	Y
31	R	R	R	R	-	-	R	R	R
41, 42	R	R	R	R	R	R	G	G	R
51	-	F	-	F	R	R	R	R	Y
61, 62	R	G	R	G	R	R	R	R	Y
71	R	R	R	R	-	-	R	R	R
81	R	R	R	R	G	R	G	R	R
82	R	R	R	R	G	R	G	R	R
P21, P22	DW	DW	W	W	DW	DW	DW	DRK	
P41, P42	DW	DW	DW	DW	DW	DW	W	DRK	
P61, P62	DW	W	DW	W	DW	DW	DW	DRK	
P81, P82	DW	DW	DW	DW	DW	W	DRK		

MAXTIME TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Walk *	-	7	-	7	-	7	-	7
Ped Clear *	-	19	-	23	-	15	-	22
Min Green	7	10	7	7	7	10	7	7
Passage *	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0
Max I *	20	60	20	40	20	60	20	40
Yellow Change	3.0	4.2	3.0	3.3	3.0	4.2	3.0	3.3
Red Clear	3.1	1.9	2.6	3.0	2.9	1.9	2.8	3.0
Added Initial *	-	-	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Advance Walk	-	-	-	-	-	-	-	-
Non Lock Detector	X	-	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 Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



LEGEND

PROPOSED	EXISTING
	N/A
N/A	
	N/A

New Installation

Prepared for the Offices of:
 Transportation Mobility and Safety Division
 DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 Signal Design Section

SR 1362 (Chestnut Parkway Connector/ Chestnut Parkway) at SR 1367 (Matthews-Indian Trail Road)
 Division 10 Union County Indian Trail
 PLAN DATE: September 2023 REVIEWED BY: S.G. Haynie
 PREPARED BY: P. Koloski REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27524
 NC FIRM LICENSE No: F-0493
 RALEIGH, NC 27615
 (919) 926-4100

SCALE: 0 20 1"=20'

REVISIONS: INITI. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029531 STEVEN G. HAYNIE

SIGNATURE: Steven G. Haynie DATE: 10-2336