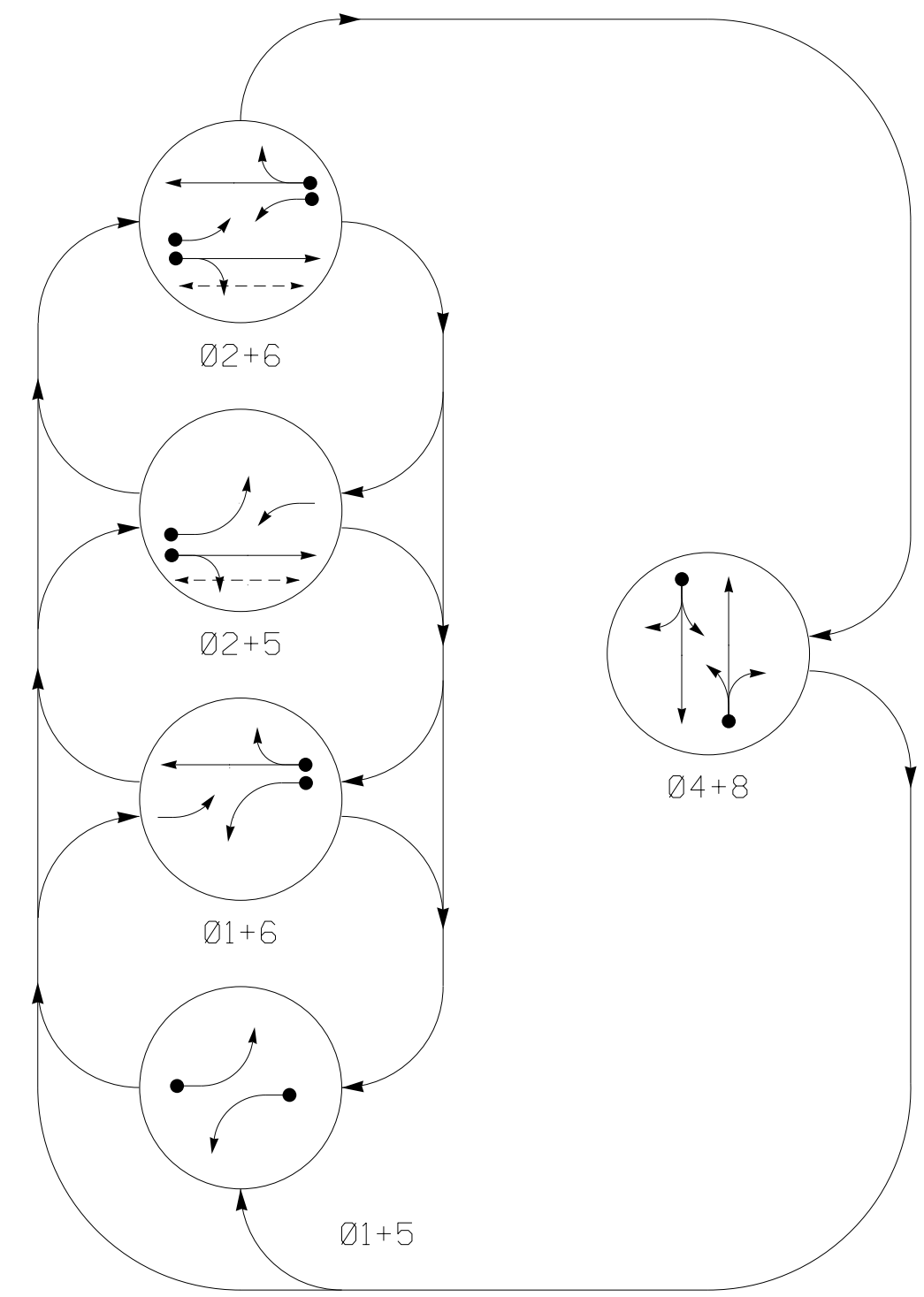


5 Phase Fully Actuated NC 8 (Winston Road) CLS Signal System #:D09-19.Lexington NOTES

- 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 5 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.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- 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.
- Relocate 2070LX controller installed in Temporary Design 1.

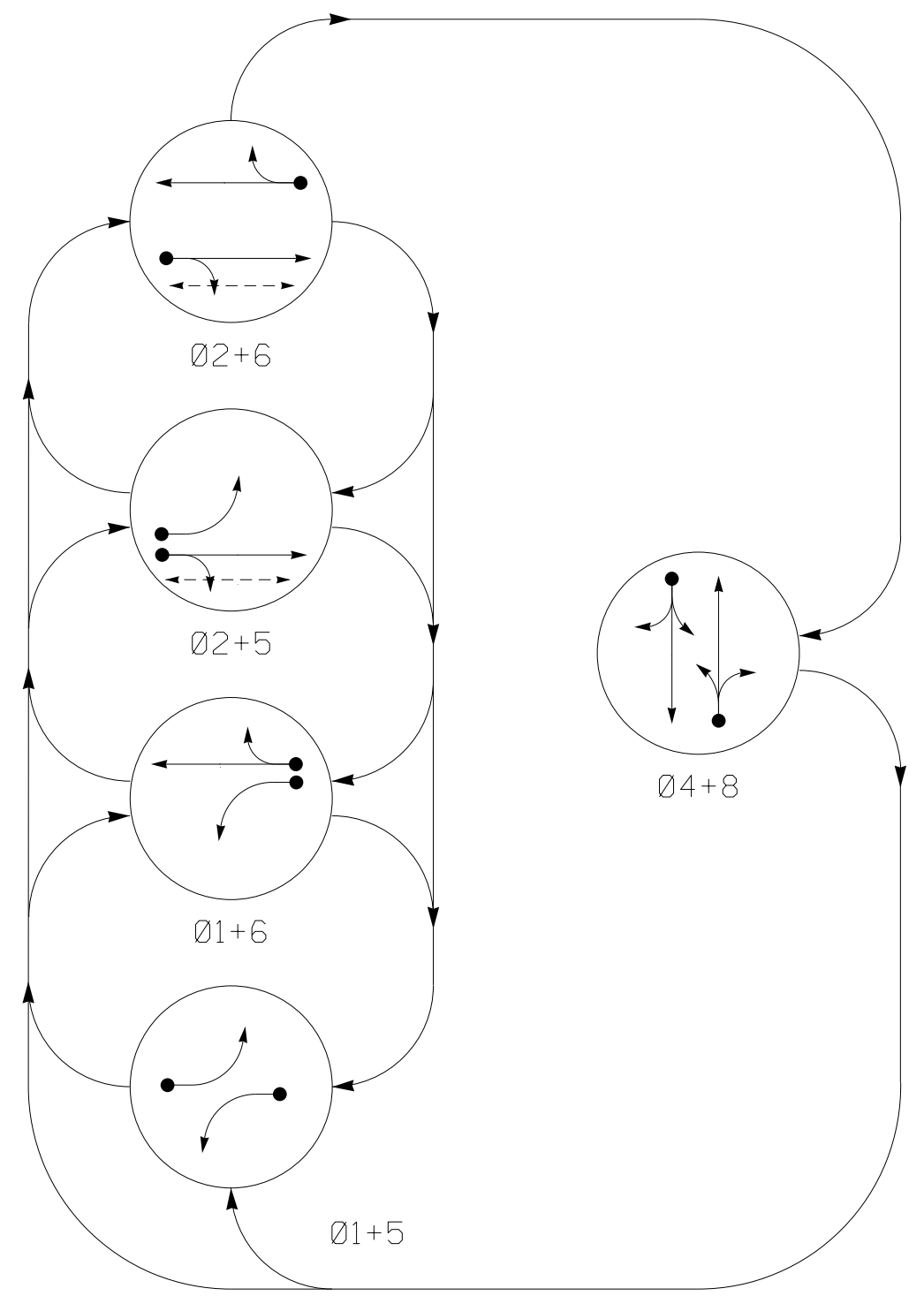
DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION

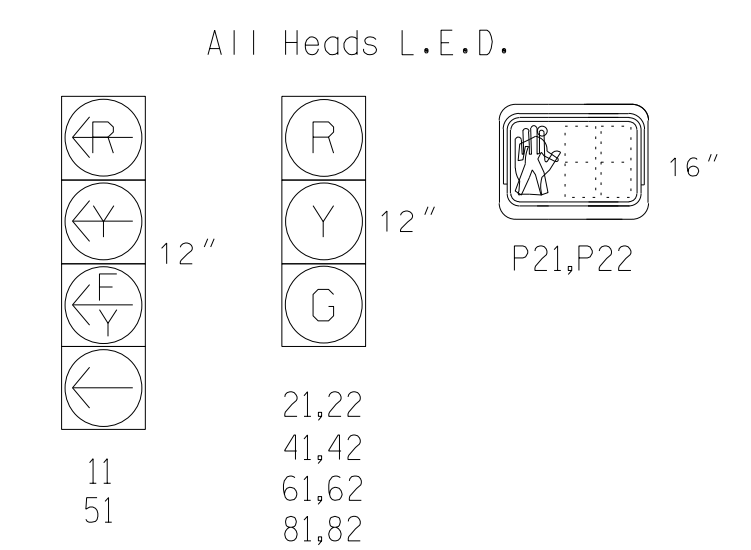
SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	04+8	FLASH
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
81,82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK

MAXTIME DETECTOR INSTALLATION CHART

ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A*	6X40	0	*	*	1	15.0**	-	X	-	X	-	-
2A*	6X6	70	*	*	2	-	-	X	-	X	-	-
4A*	6X40	0	*	*	4	3.0	-	X	-	X	-	-
5A*	6X40	0	*	*	5	15.0**	-	X	-	X	-	-
6A*	6X6	70	*	*	6	-	-	X	-	X	-	-
8A*	6X40	0	*	*	8	5.0	-	X	-	X	-	-

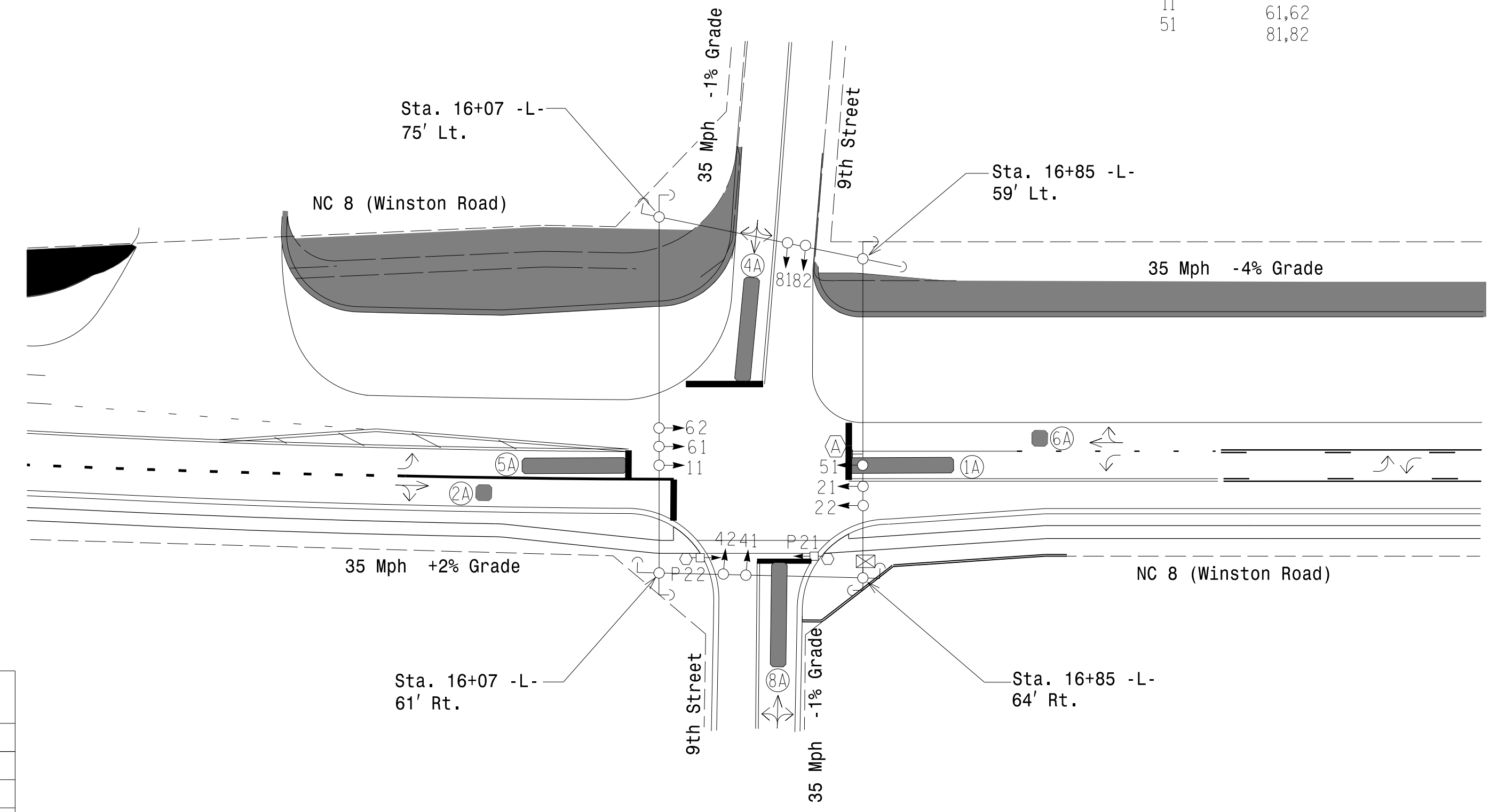
\*Video Detection Zone  
 \*\*Disable delay during alternate phasing operation  
 # Disable phase call for loop(s) during alternate phasing operation

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

- ← ● DETECTED MOVEMENT
- ← ○ UNDETECTED MOVEMENT (OVERLAP)
- ← ○ UNSIGNALIZED MOVEMENT
- ← ○ PEDESTRIAN MOVEMENT



MAXTIME TIMING CHART

FEATURE	PHASE						
	1	2	4	5	6	8	
Walk *	-	13	-	-	-	-	
Ped Clear *	-	10	-	-	-	-	
Min Green *	7	10	7	7	10	7	
Passage *	2.0	3.0	2.0	2.0	3.0	2.0	
Max I *	15	40	15	15	40	15	
Yellow Change	3.0	4.1	3.9	3.0	4.1	3.9	
Red Clear	1.6	1.4	1.2	2.1	1.4	1.2	
Added Initial *	-	-	-	-	-	-	
Maximum Initial *	-	-	-	-	-	-	
Time Before Reduction *	-	-	-	-	-	-	
Time To Reduce *	-	-	-	-	-	-	
Minimum Gap	-	-	-	-	-	-	
Advance Walk	-	6	-	-	-	-	
Non Lock Detector	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.

LEGEND

- | PROPOSED   | EXISTING                     |
|--|------------------------------|
| ○ → Traffic Signal Head                            | ● → N/A                      |
| ○ → Modified Signal Head                           | ○ → N/A                      |
| ○ → Pedestrian Signal Head With Push Button & Sign | ○ → N/A                      |
| ○ → Signal Pole with Guy                           | ○ → N/A                      |
| ○ → Signal Pole with Sidewalk Guy                  | ○ → N/A                      |
| □ → Inductive Loop Detector                        | □ → N/A                      |
| □ → Junction Box                                   | □ → N/A                      |
| --- 2-in Underground Conduit                       | --- 2-in Underground Conduit |
| N/A → Right of Way                                 | N/A → Right of Way           |
| → Directional Arrow                                | → Directional Arrow          |
| Construction Zone                                  | N/A                          |
| Video Detection Zone                               | N/A                          |
| ○ Type II Signal Pedestal                          | ○ Type II Signal Pedestal    |
| ⓐ Left Turn Only Sign (R3-5)                       | ⓐ Left Turn Only Sign (R3-5) |

Signal Upgrade - Temporary Design 2 (TMP Phase II) DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

**TRANSYSTEMS**  
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Prepared for the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529  
 SCALE: 1" = 40'

NC 8 (Winston Road) at 9th Street  
 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

SEAL  
  
 G.G. Murr, Jr.  
 DATE: 1448888100468  
 SIGNATURE: G.G. Murr, Jr.  
 DATE: 1448888100468  
 SIG. INVENTORY NO. 09-0402 T2