

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

NOTES

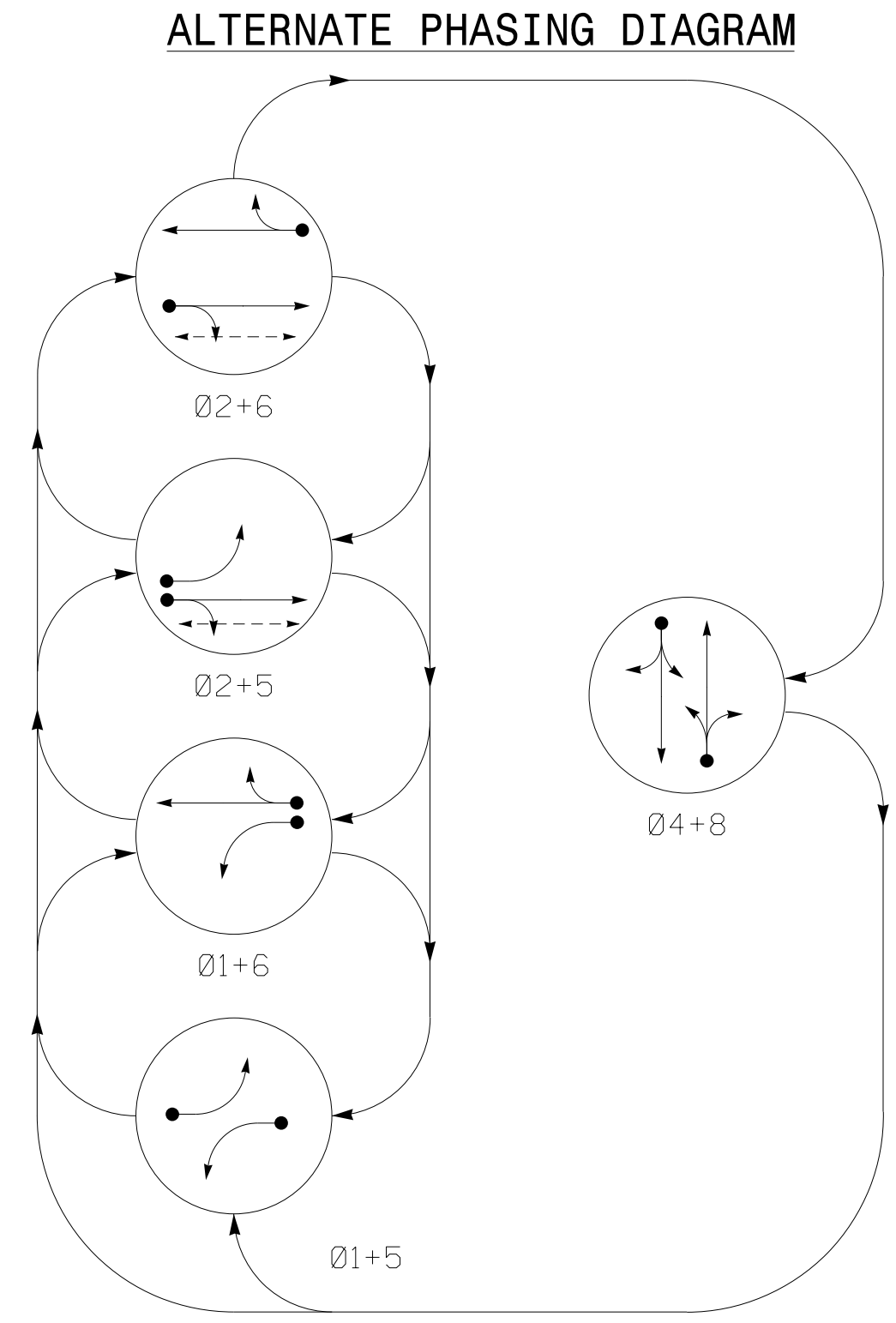
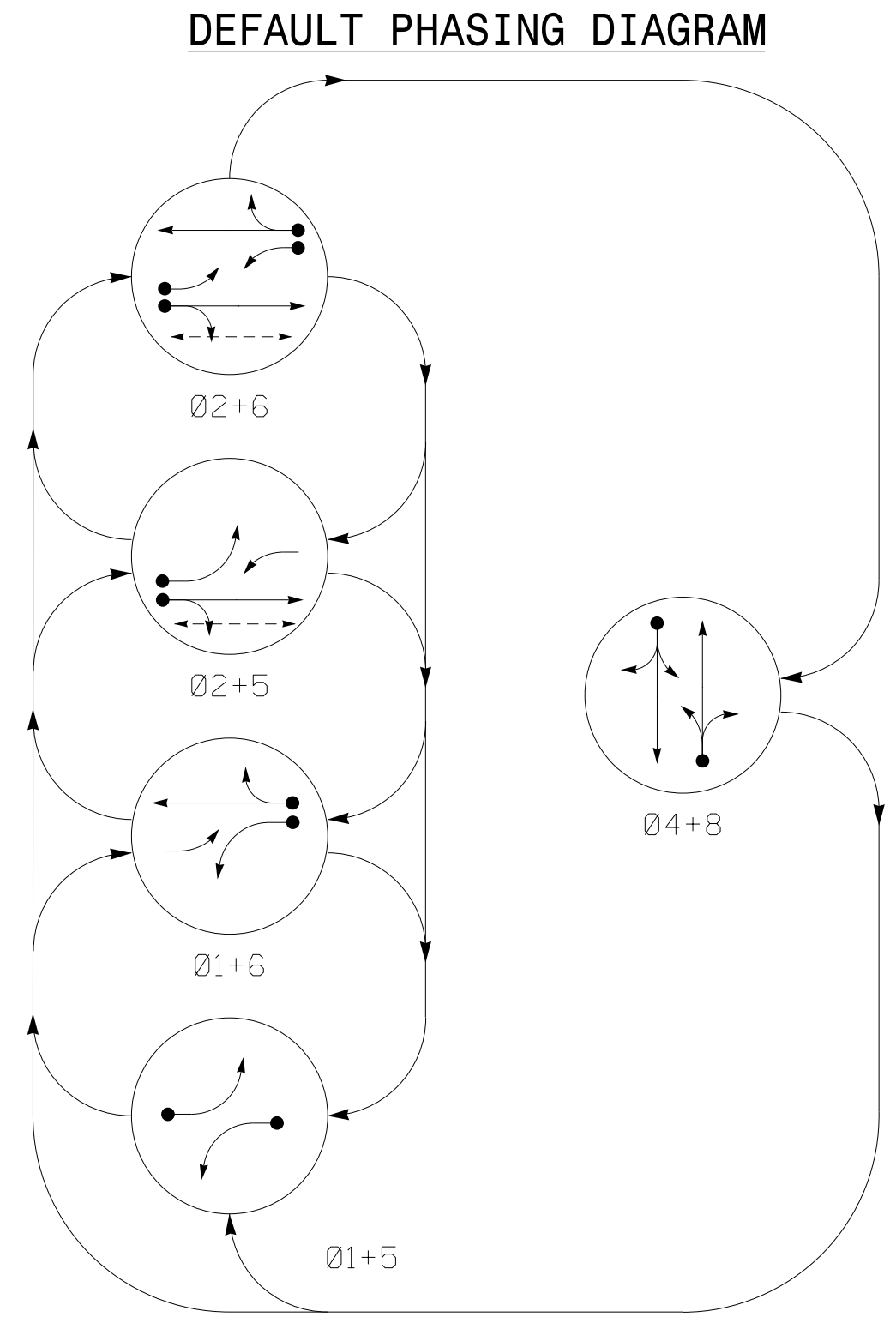
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or 5 may be lagged.
- Reposition existing signal heads 11, 21, 22, 51, 61 & 62.
- 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.
- 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.

MAXTIME DETECTOR INSTALLATION CHART										
DETECTOR				PROGRAMMING						
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW ZONE	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	NEW CARD
1A*	6X40	0	*	-	1	15.0**	-	X	X	-
2A*	6X6	70	*	-	2	-	-	X	X	-
4A*	6X40	0	*	-	4	5.0	-	X	X	-
5A*	6X40	0	*	-	5	15.0**	-	X	X	-
6A*	6X6	70	*	-	6	-	-	X	X	-
8A*	6X40	0	*	-	6	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	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L D S H
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
41,42,43	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
81,82,83	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK

SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L D S H
11	←	←	←	←	←	←
21,22	R	R	G	G	R	Y
41,42,43	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	Y
81,82,83	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK

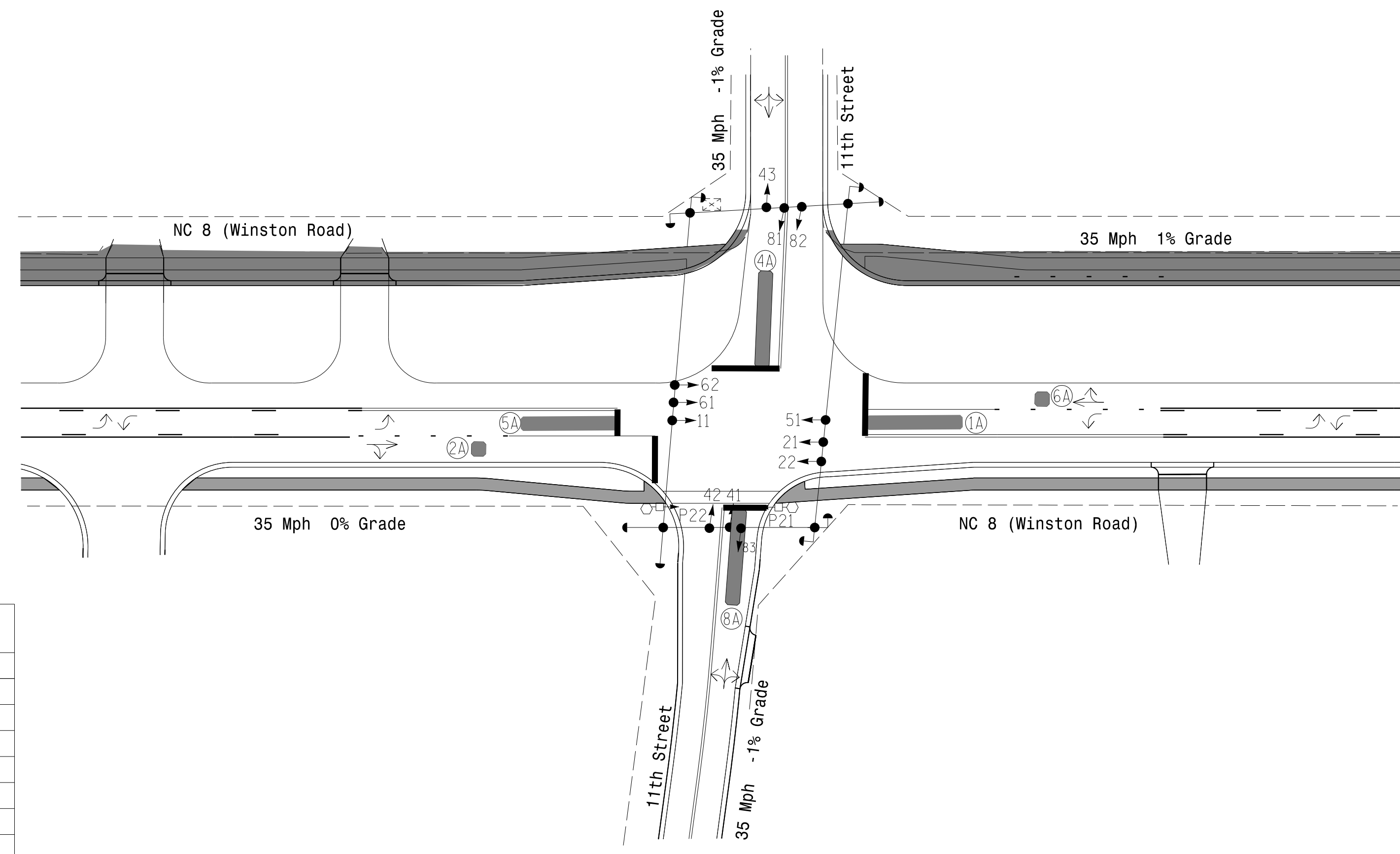
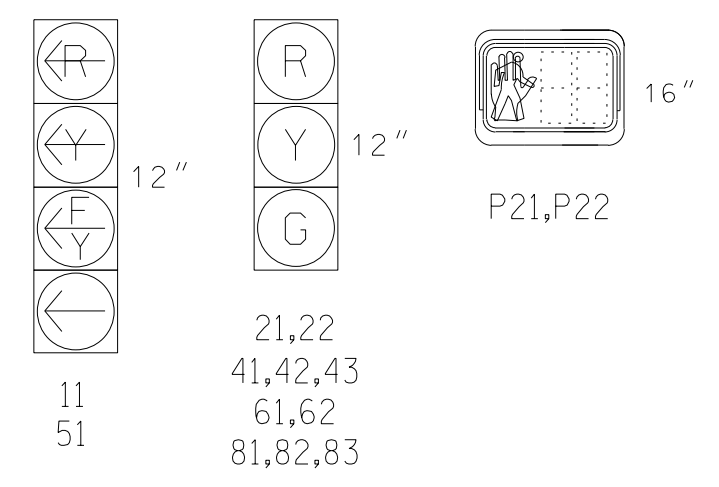


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.



FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	13	-	-	-	-
Ped Clear *	-	9	-	-	-	-
Min Green *	7	10	7	7	10	7
Passage *	2.0	3.0	2.0	2.0	3.0	2.0
Max 1 *	15	40	15	15	40	15
Yellow Change	3.0	3.8	3.9	3.0	3.8	3.9
Red Clear	2.3	1.3	1.1	2.6	1.3	1.1
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  |
| ○ → Controller & Cabinet                           | ○ → N/A  |
| ○ → Junction Box                                   | ○ → N/A  |
| ○ → 2-in Underground Conduit                       | ○ → N/A  |
| ○ → Right of Way                                   | ○ → N/A  |
| ○ → Directional Arrow                              | ○ → N/A  |
| ○ → Type II Signal Pedestal                        | ○ → N/A  |
| ○ → Construction Zone                              | ○ → N/A  |
| ○ → Video Detection Zone                           | ○ → N/A  |

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

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NC 8 (Winston Road) at 11th Street

Division 9 Davidson County Lexington

PLANNED BY: May 2024 REVIEWED BY: G.G. Murr, Jr.

PREPARED BY: B.E. Wynn REVIEWED BY:

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
G. G. MURR, JR.  
14459861C00498  
DATE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_  
SIG. INVENTORY NO. 09-0401 T2

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 0 40  
1" = 40'