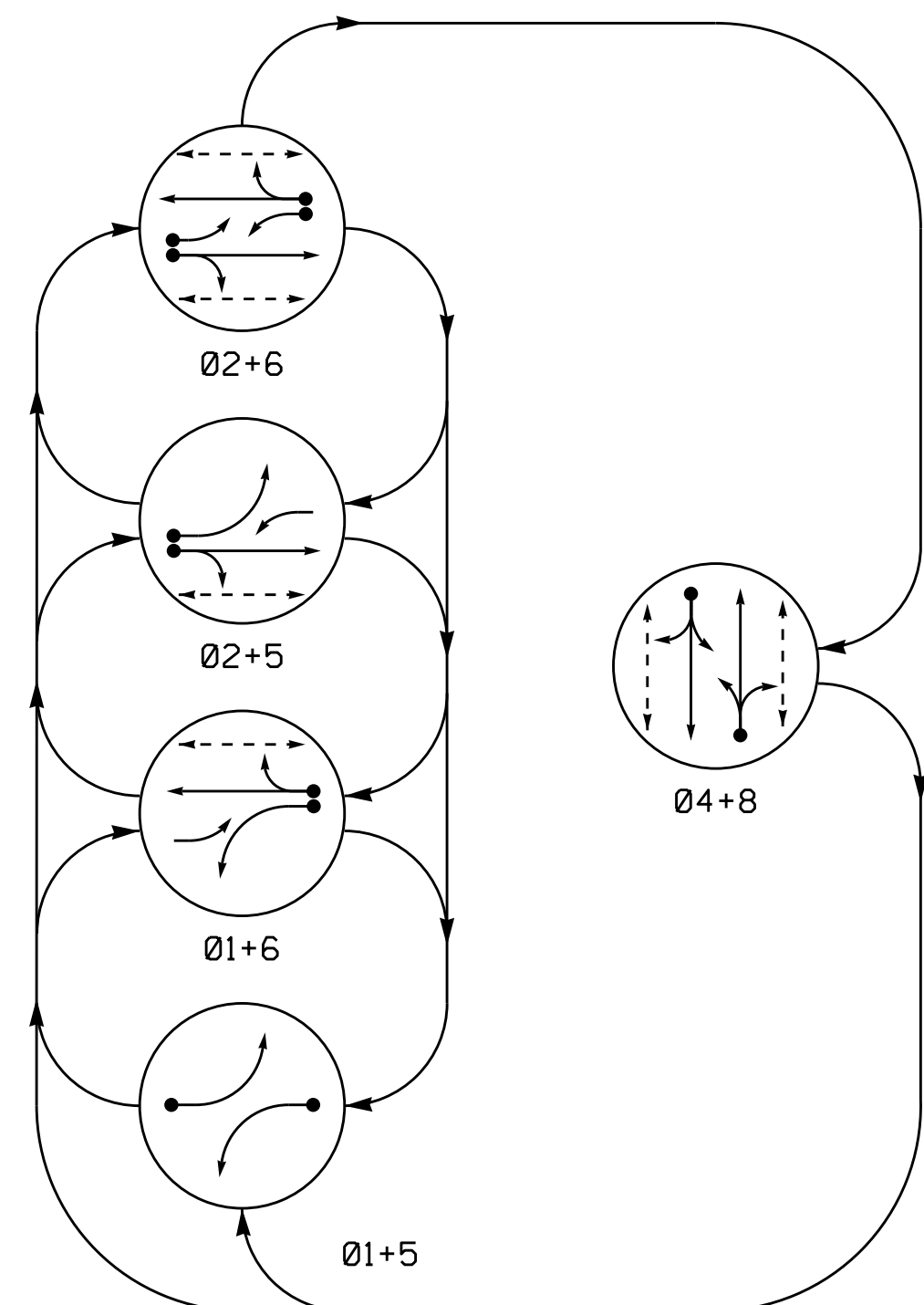


DEFAULT PHASING DIAGRAM

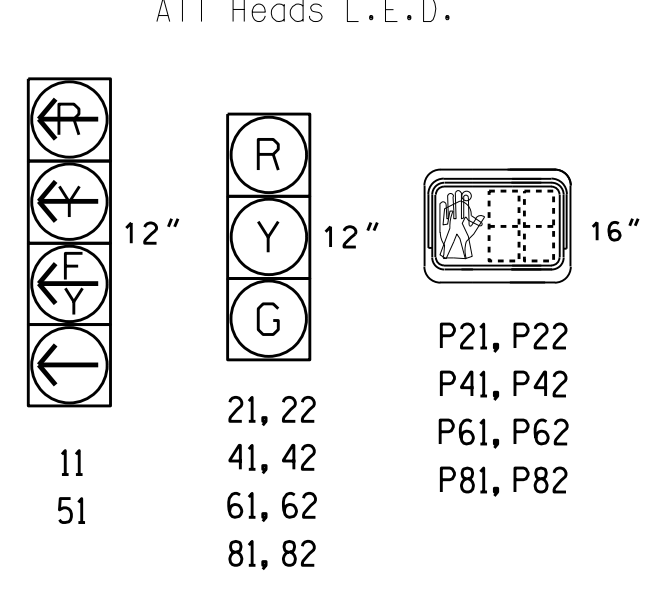


PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE					FLHSB
	01+5	01+6	02+5	02+6	04+8	
11	←	←	←	←	←	Y
21,22	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
51	←	←	←	←	←	Y
61,62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE I.D.



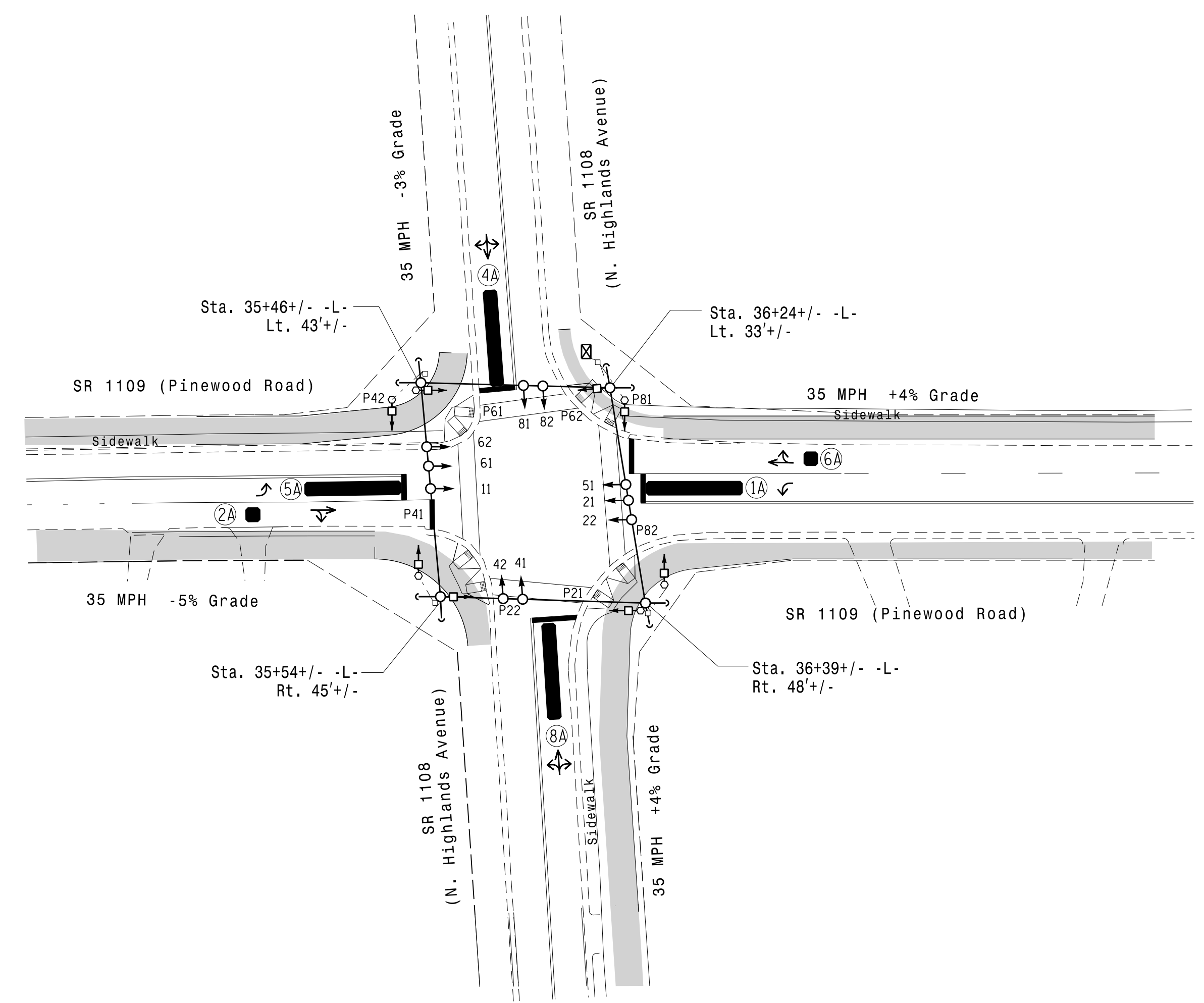
MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
1A*	6X40	0	*	*	1	15.0	-	X	-	X	-
					6	-	-	X	-	X	-
2A*	6X6	70	*	*	2	-	-	X	-	X	-
4A*	6X40	0	*	*	4	5.0	-	X	-	X	-
5A*	6X40	0	*	*	5	15.0	-	X	-	X	-
					2	-	-	X	-	X	-
6A*	6X6	70	*	*	6	-	-	X	-	X	-
8A*	6X40	0	*	*	8	5.0	-	X	-	X	-

\* Video detection zone

5 Phase Fully Actuated Isolated

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.
- 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.
- Pavement markings are existing.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	9	13	-	10	9
Ped Clear *	-	9	11	-	10	14
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	30	15	40	30
Yellow Change	3.0	4.2	4.1	3.1	4.2	4.1
Red Clear	2.3	1.7	2.0	2.1	1.7	2.0
Added Initial *	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Advance Walk	-	-	-	-	-	-
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.

PROPOSED	EXISTING
	N/A
	N/A

This plan supersedes the plan signed and sealed on 9/22/21.

Signal Upgrade - Temporary Design

Prepared in the Offices of:  
  
 TRANSPORTATION MOBILITY AND SAFETY DIVISION  
 STATE OF NORTH CAROLINA  
 SIGNAL DESIGN SECTION

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1109 (Pinewood Road) at SR 1108 (N. Highlands Avenue)  
 Division 11 Caldwell County Granite Falls

PLAN DATE: August 2023 REVIEWED BY: R.N. Zinser  
 PREPARED BY: T.A. Kenion REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1"=40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 RICHARD N. ZINSER  
 043914

DocuSigned by:  
 R. Nicholas Zinser  
 12/04/2023

SIG. INVENTORY NO. II-02081

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