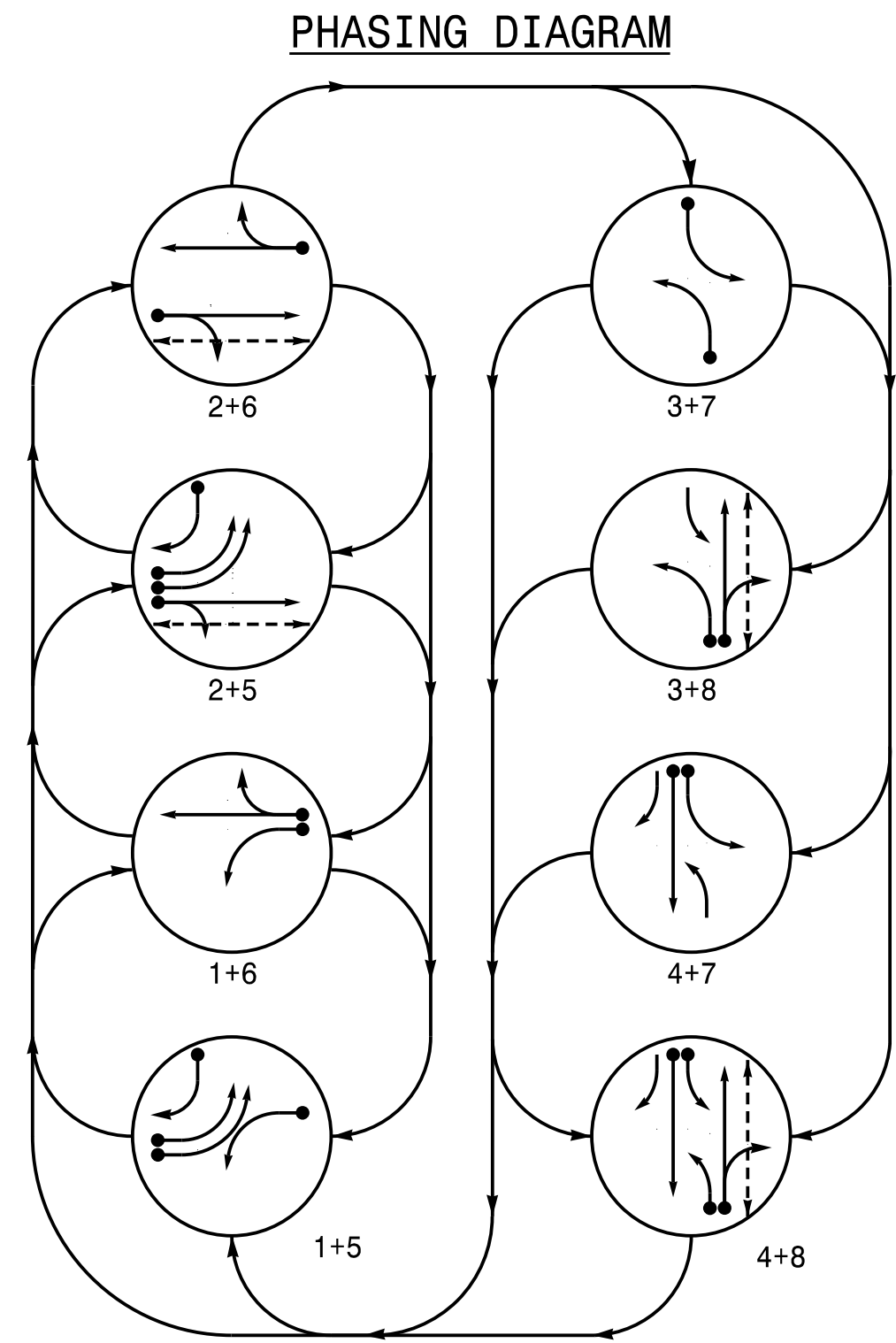




PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

RADAR DETECTION SYSTEM				
FUNCTION	Sensor 1 (2A)		Sensor 2 (6A)	
Channel	1		1	
Phase	2		6	
Direction of Travel	EB		WB	
Type	Priority		Priority	
Level	2	QUEUE	2	QUEUE
Discovery Zone (ft)	< 750	-	< 750	-
Range (ft)	100-600	100-150	100-600	100-150
Enable Speed	Y	Y	Y	Y
Speed Range (mph)	35-100	1-35	35-100	1-35
Enable Estimated Time of Arrival	Y	N	Y	N
Estimated Time of Arrival (sec)	2.5-6.5	-	2.5-6.5	-

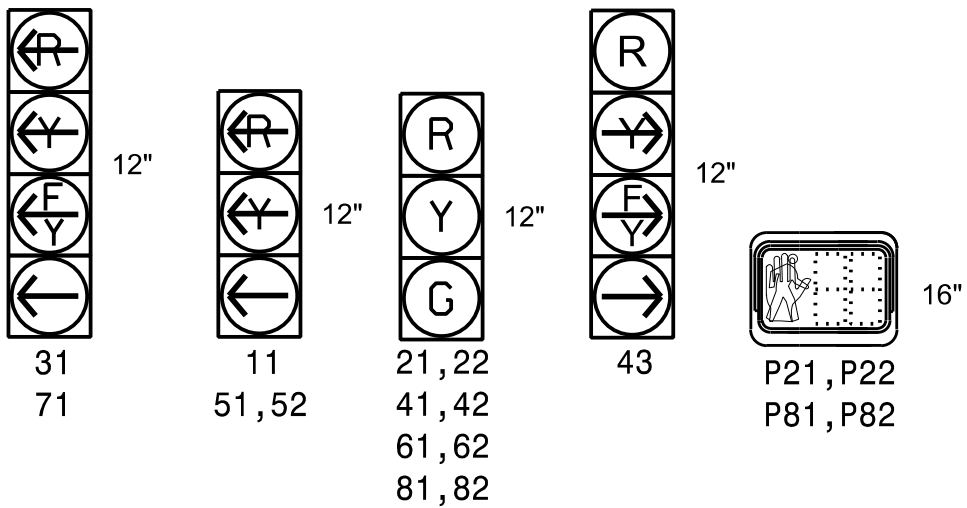
MAXTIME TIMING CHART								
FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Walk *	-	14	-	-	-	-	-	13
Ped Clear	-	21	-	-	-	-	-	11
Min Green *	7	10	7	7	7	10	7	7
Passage *	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Max 1 *	20	60	20	30	20	60	20	30
Yellow Change	3.3	4.6	3.0	3.9	3.0	4.6	3.0	3.9
Red Clear	2.8	2.2	3.2	2.6	3.9	2.2	3.5	2.6
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Added Initial *	-	-	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Advance Walk	-	7	-	-	-	-	-	6
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 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.
** See Note 10.

TABLE OF OPERATION									
SIGNAL FACE	PHASE								FLASH
	1 + 5	1 + 6	2 + 5	2 + 6	3 + 7	3 + 8	4 + 7	4 + 8	
11	-	-	R	R	R	R	R	R	R
21, 22	R	R	G	G	R	R	R	R	R
31	R	R	R	R	-	-	F	F	R
41, 42	R	R	R	R	R	R	G	G	R
43	-	R	-	R	R	R	F	F	R
51, 52	-	R	-	R	R	R	R	R	R
61, 62	R	G	R	G	R	R	R	R	R
71	R	R	R	R	R	G	R	G	R
81, 82	R	R	R	R	R	G	R	G	R
P21, P22	DW	DW	W	W	DW	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	DW	W	DW	W	DRK

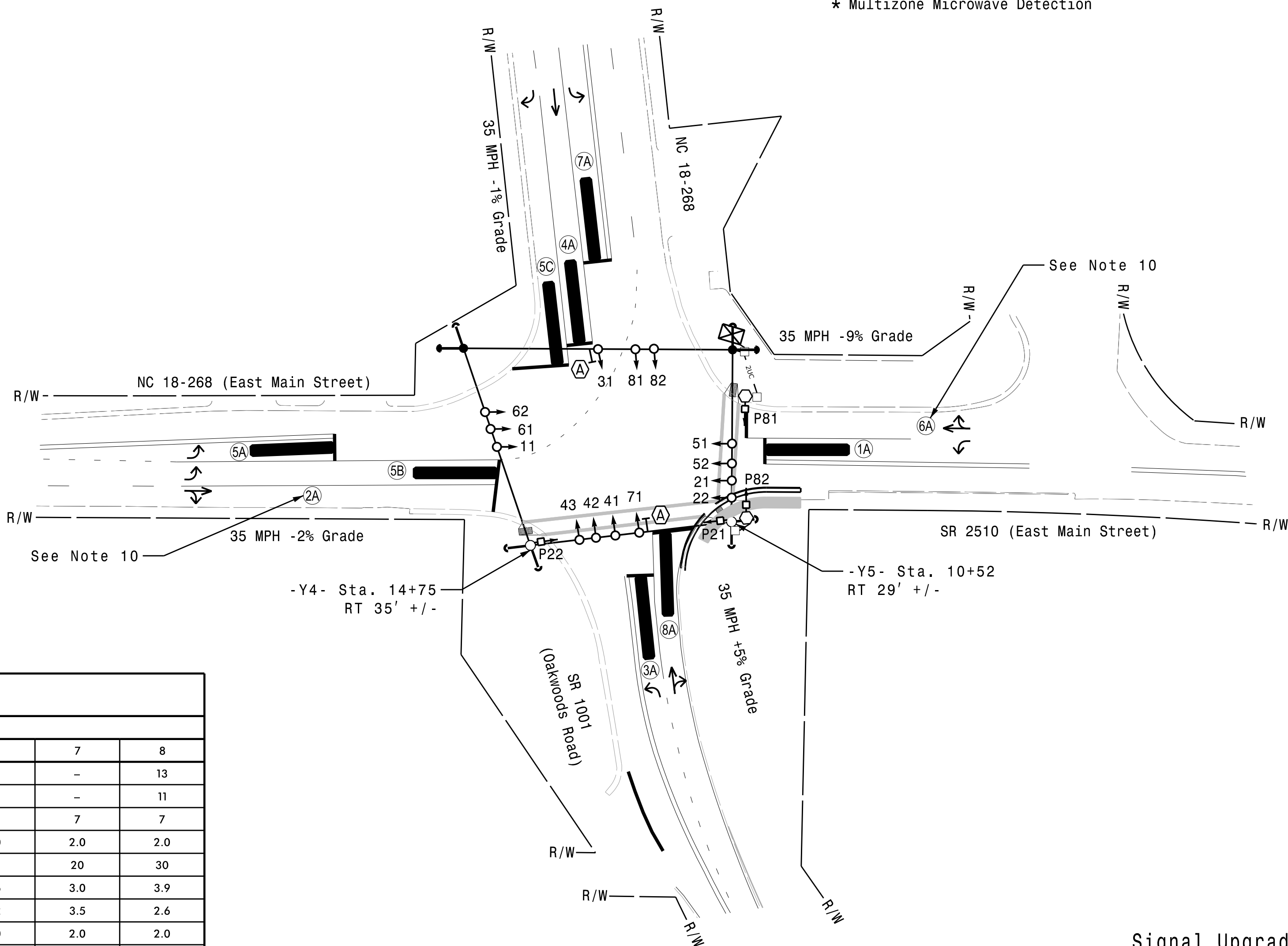
SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
1A	*	0	*	-	1	3.0		X	-	X	*
2A	*	70	*	-	2	-		X	-	X	*
3A	*	0	*	-	3	15.0		X	-	X	*
4A	*	0	*	-	4	-		X	-	X	*
5A	*	0	*	-	5	3.0		X	-	X	*
5B	*	0	*	-	5	-		X	-	X	*
5C	*	0	*	-	5	15.0		X	-	X	*
6A	*	70	*	-	6	-		X	-	X	*
7A	*	0	*	-	7	15.0		X	-	X	*
8A	*	0	*	-	8	3.0		X	-	X	*
8A	*	0	*	-	8	10.0		X	-	X	*

* Multizone Microwave Detection



8 Phase
Fully Actuated
Isolated

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications 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 and/or phase 7 may be lagged.
- Disconnect and Abandon existing loops.
- 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 multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- See B-4676A TMP Phase 1 for pavement markings.

LEGEND		
PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Non-Intrusive Detection Zone	
	Controller & Cabinet	
	Junction Box	
	1-in Underground Conduit	
	2-in Underground Conduit	
	Right of Way	
	Directional Arrow	
	Type II Signal Pedestal	
	Curb Ramp	
	Wedge/Widen	
	Left Arrow "ONLY" Sign (R3-5L)	

Signal Upgrade -
Temporary Design
(Construction Phase 1)

Prepared for:

750 N. Greenfield Pkwy, Garner, NC 27526

NC 18-268 (E. Main St)/
SR 2510 (E. Main St)
at
NC 18-268/SR 1001 (Oakwoods Rd)

Division 11 Wilkes County Wilkesboro

PLAN DATE: July 2025 REVIEWED BY: N.K. Vianich

PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

REVISIONS

INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

W. Tisha R. Simmons

4/30/2026

SIGNATURE DATE

SIG. INVENTORY NO. 11-0898T

HNTB

HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997