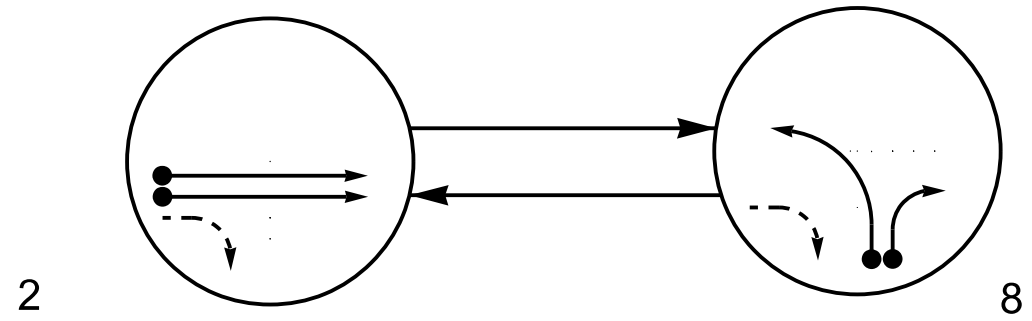


PHASING DIAGRAM



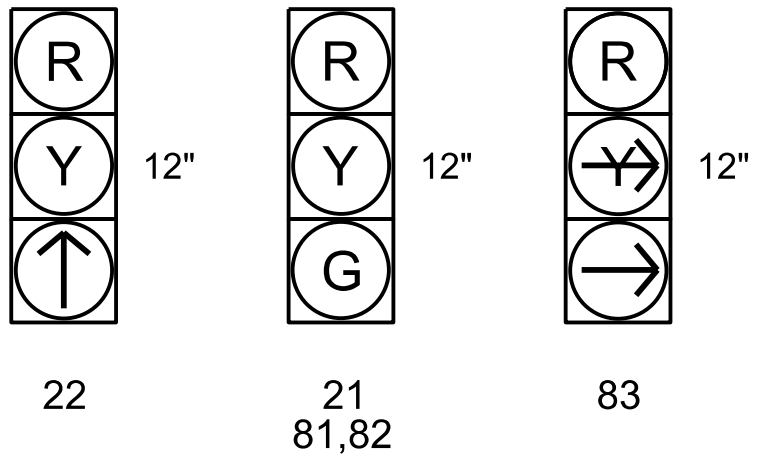
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE		
	2	8	FLIGHT
21	G	R	R
22	↑	R	R
81,82	R	G	R
83	R	→	R

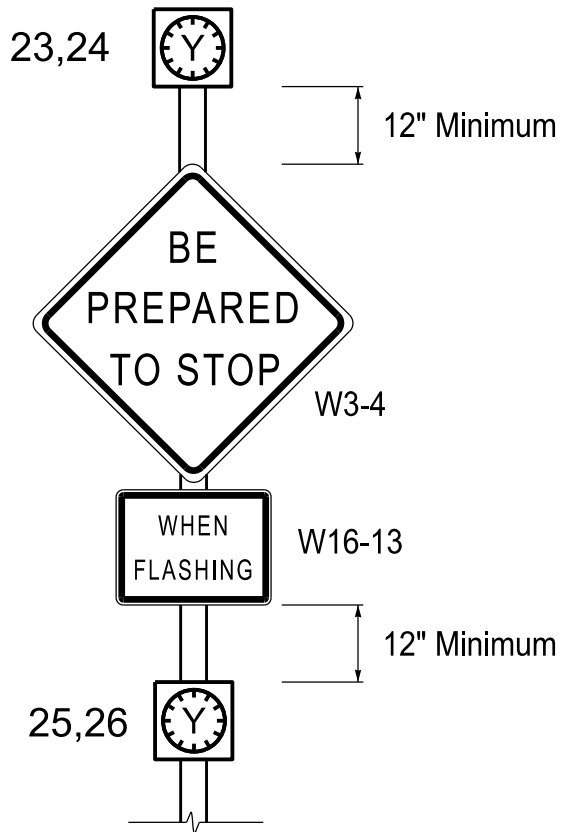
SIGNAL FACE I.D.

All Heads L.E.D.



SIGNAL FACE	INTERVAL	
	1	2
23,24	ON	OFF
25,26	OFF	ON

Figure 1



MAXTIME DETECTOR INSTALLATION CHART										
DETECTOR					PROGRAMMING					
ZONE	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN
8A	*	+5	*	X	8	-	-	X	-	X
8B	*	+5	*	X	8	15.0	-	X	-	X

\* Multizone Microwave Detection

2 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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- The cabinet should be designed to include an Auxiliary Output File for future use.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.

LEGEND

PROPOSED	EXISTING

FEATURE	PHASE	
	2	8
Walk *	-	-
Ped Clear	-	-
Min Green *	14	7
Passage *	2.0	2.0
Max 1 *	90	20
Yellow Change	5.6	3.0
Red Clear	1.0	1.6
Added Initial *	-	-
Maximum Initial *	-	-
Time Before Reduction *	-	-
Time To Reduce *	-	-
Minimum Gap	-	-
Advance Walk	-	-
Pre Clearance	3.0	-
Non Lock Detector	-	X
Vehicle Recall	MIN RECALL	-
Dual Entry	-	-

\* These values may be field adjusted. Do not adjust Min Green and Passage times for phase 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

ADVANCED MICROWAVE EXTENDED RANGE DETECTION			
FUNCTION	Sensor 1 (2A)		
Channel	1		
Phase	2		
Direction of Travel	SB		
Type	PRIORITY		
Level	1	2	QUEUE
Discovery Zone (ft)	>=750	<750	N/A
Detection Zone/Range (ft)	900-100	600-100	150-100
Enable Speed	Y	Y	Y
Speed Range (mph)	35-100	35-100	1-35
Enable Estimated Time of Arrival	Y	Y	N
Estimated time of Arrival (sec)	2.5-10.0	2.5-6.5	-

New Installation

**RK&K**  
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Prepared for the Offices of:  
Transportation Mobility and Safety Division  
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
Signal Design Section  
750 N. Greenfield Pkwy, Garner, NC 27529

US 17  
at  
US Business 17 / NC 343  
Division 1 Camden County Near South Mills  
PLAN DATE: September 2025 REVIEWED BY: W.P. Erickson-Jones  
PREPARED BY: J. Osipovitch REVIEWED BY: D.T. Sears  
REVISIONS INT. DATE  
0 40  
1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
SEAL  
NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
044558  
DAVID T. SEARS  
9/15/2025  
SIG. INVENTORY NO. 01-0767