

PROJECT REFERENCE NO.	SHEET NO.
R-5857	Sig. 15.0

2 Phase  
Fully Actuated  
Signal System #: D03-14\_Shallotte

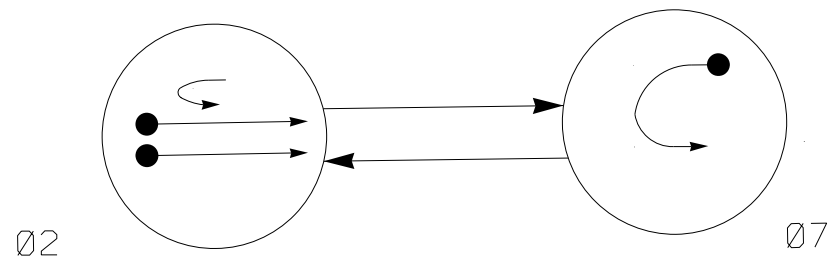
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. The Division Traffic Engineer will determine the hours of use for each phasing plan.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
6. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
7. Activate flashers 3 seconds prior to end of phase 2 green.
8. Flash vertically-mounted beacons alternately.
9. Route conduit back to signal cabinet 03-1248 for electrical service drop.
10. Install new conduit as close as possible to edge of pavement.
11. Refer to the Pavement Marking Plans for pavement marking details.

LEGEND

PROPOSED	EXISTING
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
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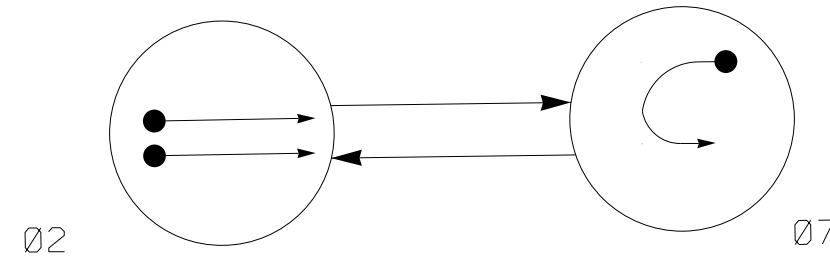
DEFAULT PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

ALTERNATE PHASING DIAGRAM



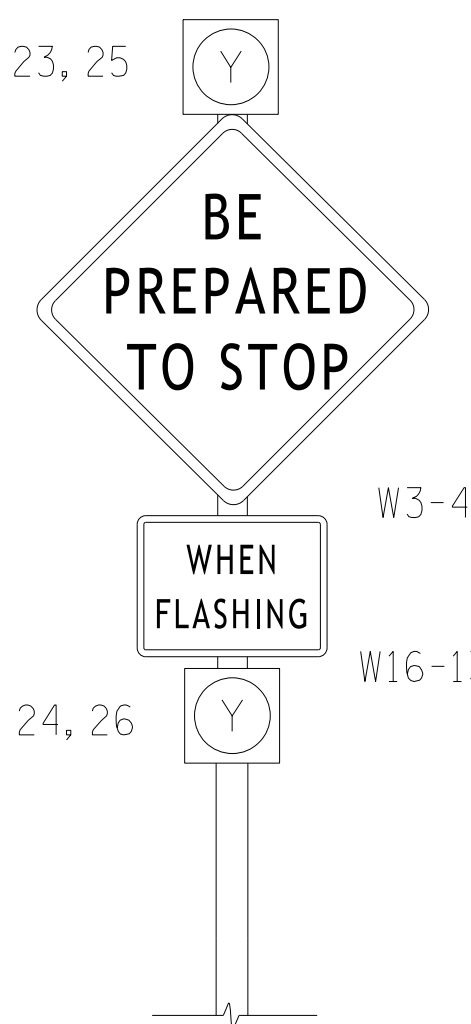
DEFAULT PHASING  
TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 2	Ø 7	FLIGHT
21,22	G	R	R
71,72			

ALTERNATE PHASING  
TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 2	Ø 7	FLIGHT
21,22	G	R	R
71,72			

Figure 1



See notes 7 and 8

TABLE OF OPERATION

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

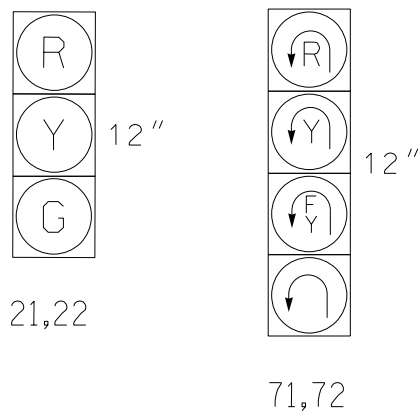
MAXTIME DETECTOR INSTALLATION CHART

DETECTOR				PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN
7A	*	0	*	X	7	15**	-	X	-	X

- \* Multi-zone microwave detection zone
- \*\* Disable delay during alternate phasing operation

SIGNAL FACE I.D.

All Heads L.E.D.



US 17 (Ocean Hwy West)

55 Mph -2% Grade

55 Mph -1% Grade

See Note 10

See Note 10

MAXTIME TIMING CHART

FEATURE	PHASE	
	2	7
Walk *	-	-
Ped Clear *	-	-
Min Green *	14	7
Passage *	2.0	2.0
Max I *	90	25
Yellow Change	5.3	3.0
Red Clear	1.1	5.0
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 Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

ADVANCED MICROWAVE EXTEND RANGE DETECTION

FUNCTION	Sensor 1 (Ø2)		
Channel	1		
Phase	2		
Direction of Travel	NB		
Type	PRIORITY		
Level	1	2	QUEUE
Discovery Zone (ft)	>=750	<750	N/A
Range (ft)	100-900	100-600	100-150
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

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

 750 N. Greenfield Pkwy, Garner, NC 27529 SCALE 0 40 1"=40'	<b>US 17 NB (Ocean Highway W) at U-Turn South of US 17 Bus/Frontage Rd NW</b> Division 3 Brunswick County Shallotte PLAN DATE: March 2025 PREPARED BY: Nadia Degbotse REVIEWED BY: G. G. Murr, Jr. REVISIONS INIT. DATE SIGNED BY: Gene B. Murr, Jr. SEAL 14543 ENGINEER SIC. INVENTORY NO. 03-1250	

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