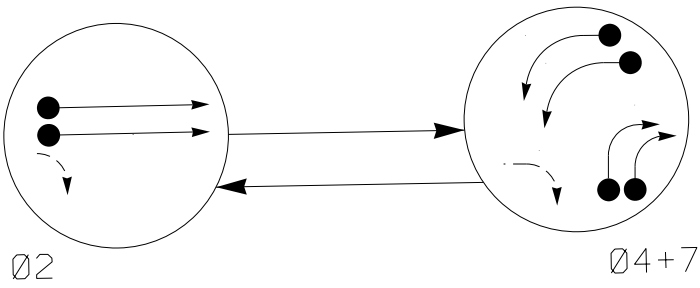


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

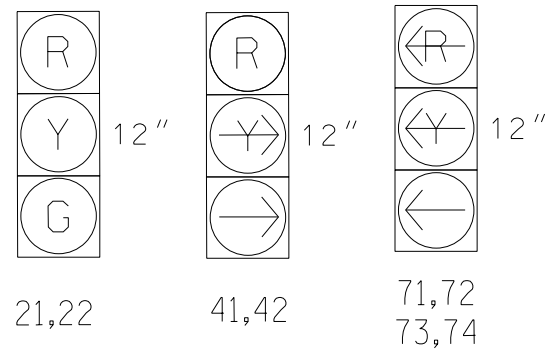
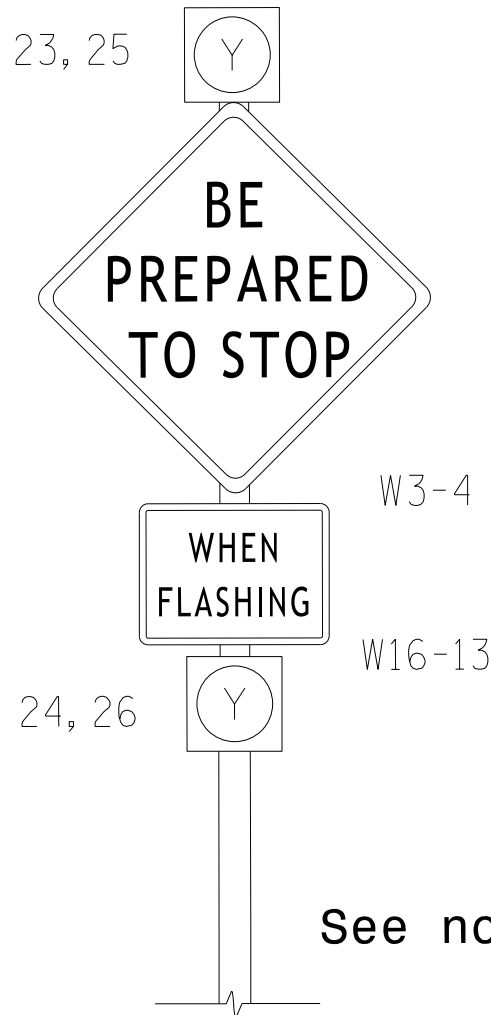


TABLE OF OPERATION				
SIGNAL FACE	PHASE			FLASH
	Ø 2	Ø 4 + 7	F L A S H	
21,22	G	R	R	
41,42	R	→	R	
71,72,73,74	←R	←	←R	

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

Figure 1



MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURN	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
4A	*	0	*	-	4	15	-	X	-	X	-
7A	*	0	*	X	7	-	-	X	-	X	-

\* Multizone microwave detection zone.

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

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.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Activate flashers 3 seconds prior to end of phase 2 green.
- Flash vertically-mounted beacons alternately.
- Install new conduit as close as possible to edge of pavement.
- Refer to the Pavement Marking Plans for pavement marking details.

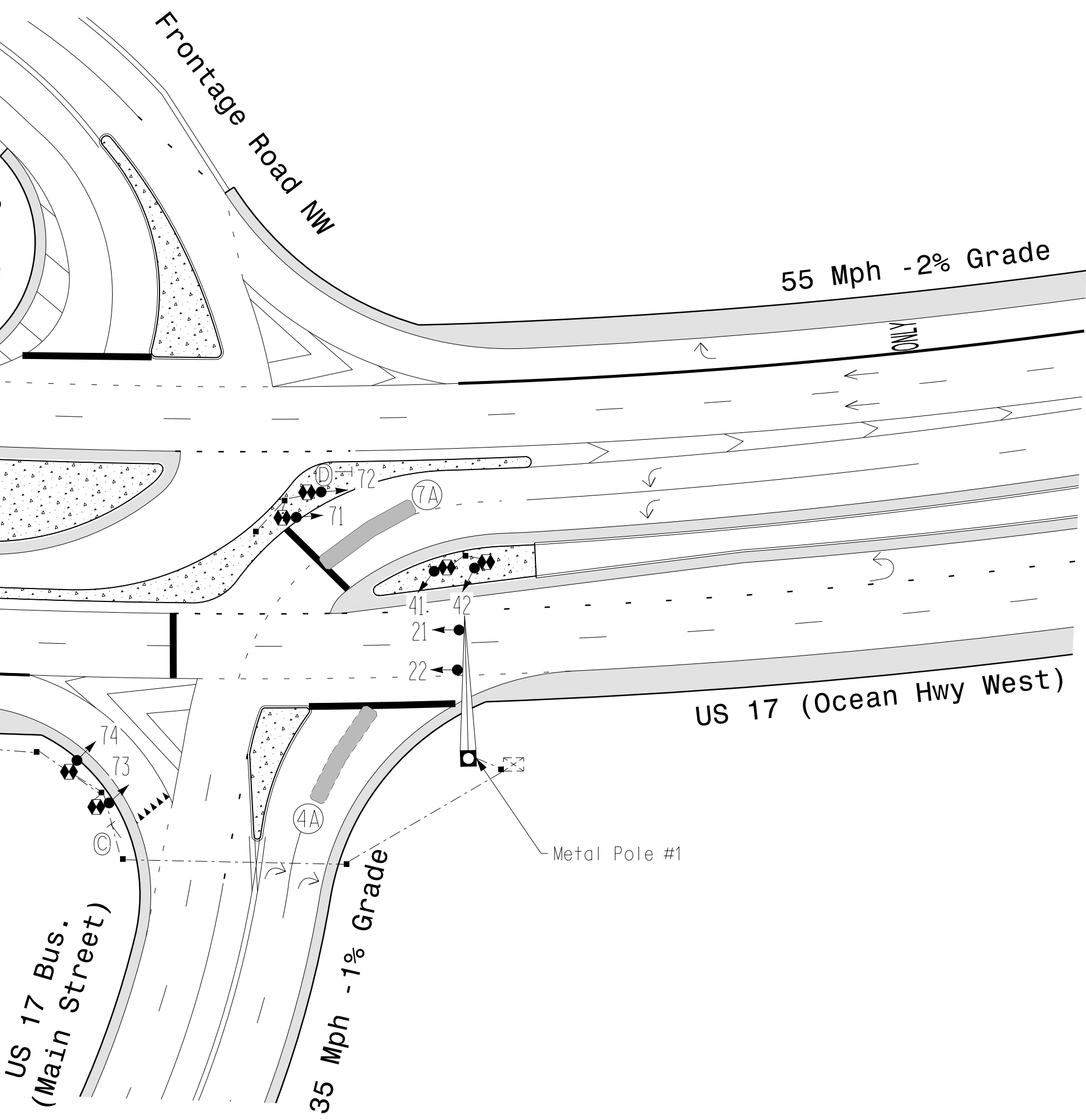
LEGEND

PROPOSED	EXISTING

MAXTIME TIMING CHART				
FEATURE	PHASE			
	2	4	7	
Walk *	-	-	-	
Ped Clear *	-	-	-	
Min Green *	14	7	7	
Passage *	2.0	2.0	2.0	
Max I *	90	25	25	
Yellow Change	5.2	3.0	3.0	
Red Clear	1.5	1.9	1.9	
Added Initial *	-	-	-	
Maximum Initial *	-	-	-	
Time Before Reduction *	-	-	-	
Time To Reduce *	-	-	-	
Minimum Gap	-	-	-	
Advance Walk	-	-	-	
Pre-Clearance	3.0	-	-	
Non Lock Detector	-	X	X	
Vehicle Recall	MIN RECALL	-	-	
Dual Entry	-	X	X	

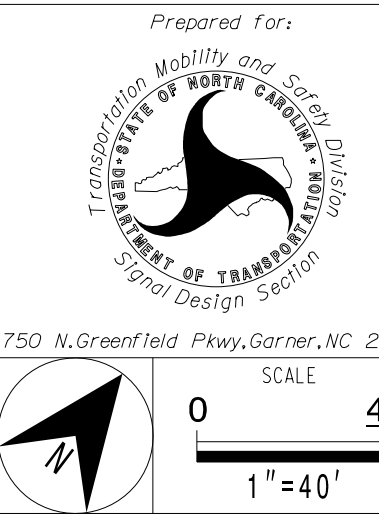
\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

ADVANCED MICROWAVE EXTEND RANGE DETECTION				
FUNCTION		Sensor 1 (A)		
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	-



Signal Upgrade - Final Design

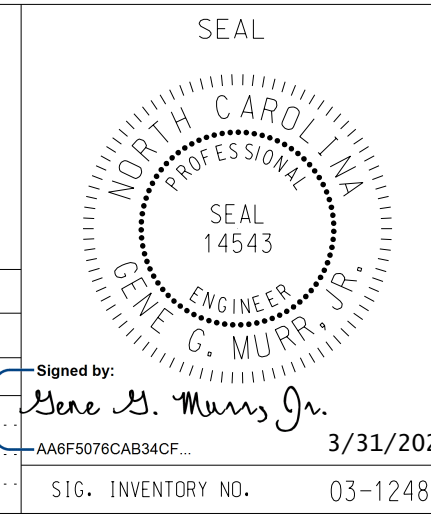
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



US 17(Ocean Highway W)  
at US 17 BUS (Main St)

Division 3 Brunswick County Shallotte  
PLAN DATE: March 2025 REVIEWED BY: G. G. Murr, Jr.  
PREPARED BY: Nadia Degbotse REVIEWED BY:

REVISIONS	INIT.	DATE



Signed by: G. G. Murr, Jr.  
AAB5076CAB3MCF...  
3/31/2025  
SIG. INVENTORY NO. 03-1248

TRANSSYSTEMS

1 Glenwood Avenue  
Raleigh, NC 27603  
Tel: 919.789.9977  
Fax: 919.789.9591  
License: F-0453

