



ADVANCED MICROWAVE EXTEND RANGE DETECTION			
FUNCTION	Sensor 1 (6A)		
Channel	1		
Phase	6		
Direction of Travel	SB		
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	-

All Heads L.E.D.

31,32	61,62	81,82

See Note 5

\* Multizone microwave detection zone.

SIGNAL FACE	INTERVAL	
	1	2
65	ON	OFF
66	OFF	ON

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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Disconnect and bag signal heads 31 and 32 during this phase of construction.
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 6 green.
8. Flash vertically-mounted beacons alternately.
9. Install new conduit as close as possible to edge of pavement.
10. Refer to the Pavement Marking Plans for pavement marking details.

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Type III Signal Pedestal	
	Controller & Cabinet	
	Junction Box	
N/A	Curb Ramp	
-----	2-in Underground Conduit	-----
	Directional Drill	N/A
N/A	Right of Way	-----
	Directional Arrow	
	Metal Pole with Mastarm	
	Detection Zone	
	Temporary Barrier	
(A)	Signal Ahead Sign (W3-3)	(A)
(B)	"BE PREPARED TO STOP" Sign (W3-4) w/ "WHEN FLASHING" Plaque (W16-3) (See Figure 1)	(B)
(C)	"YIELD" Sign (R1-2)	(C)
(D)	No U-Turn Sign (R3-4)	(D)

\* 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.

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New Installation-Temporary Design 1 (TMP Phase 4)

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

SEAL

US 17 (Ocean Highway W)  
at  
Frontage Rd NW

Division 3 Brunswick County Shallotte

PLAN DATE: March 2025	REVIEWED BY: G. G. Murr, Jr.
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Nadia Degbotse	REVIEWED BY:		
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Signed by:

3/31/2025

SIG. INVENTORY NO.	03-1249T1
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