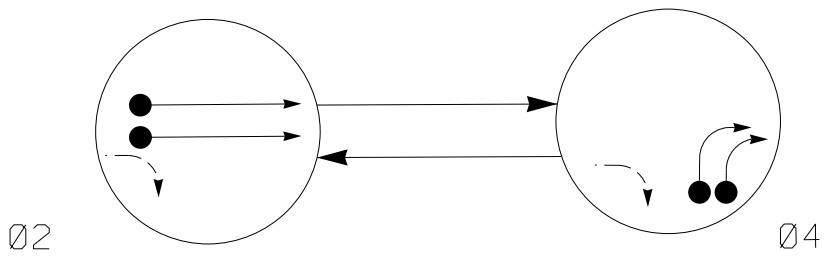


PROJECT REFERENCE NO.	SHEET NO.
R-5857	Sig. 4.0

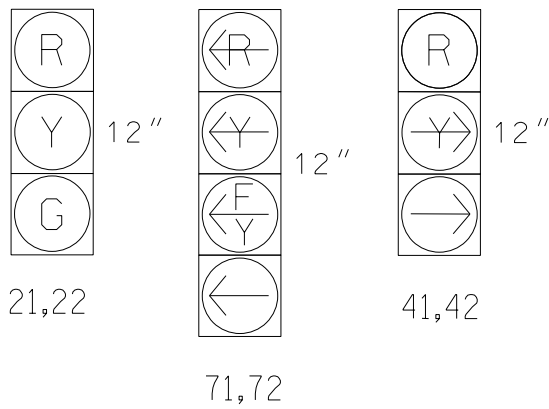
PHASING DIAGRAM



- PHASING DIAGRAM DETECTION LEGEND
- DETECTED MOVEMENT
  - ◄ UNDETECTED MOVEMENT (OVERLAP)
  - ◄--- UNSIGNALIZED MOVEMENT
  - ◄---> PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

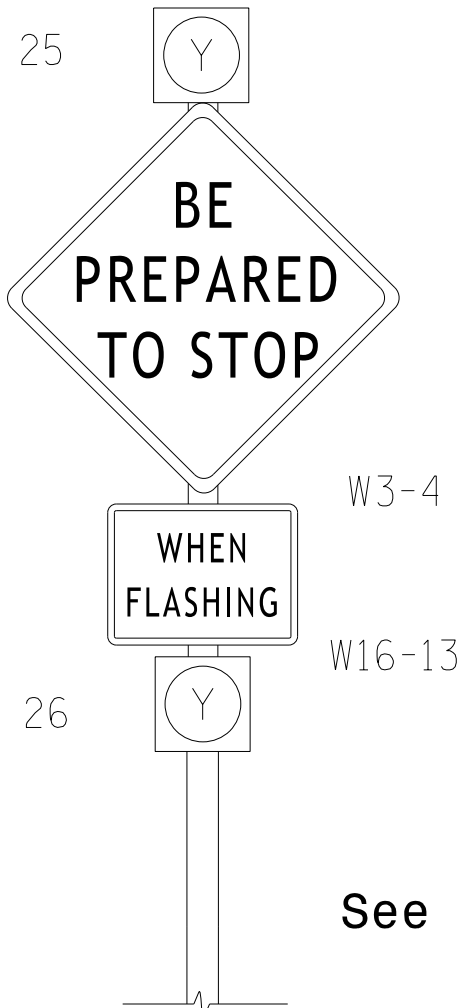
All Heads L.E.D.



See note 4

TABLE OF OPERATION			
SIGNAL FACE	PHASE		
	Ø 2	Ø 4	FLASH
21,22	G	R	R
41,42	R	→	R

Figure 1



See notes 6 and 7

SIGNAL FACE	INTERVAL	
	1	2
25	ON	OFF
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 INITIAL	CALL DELAY DURING GREEN	NEW CARD
4A	*	0	*	X	4	15	-	X	-	X

\* Multizone microwave detection zone

2 Phase  
Fully Actuated  
Isolated

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. Disconnect and bag signal heads 71 and 72 during this phase of construction.
5. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
6. Activate flashers 3 seconds prior to end of phase 2 green.
7. Flash vertically-mounted beacons alternately.
8. Refer to the Pavement Marking Plans for pavement marking details.

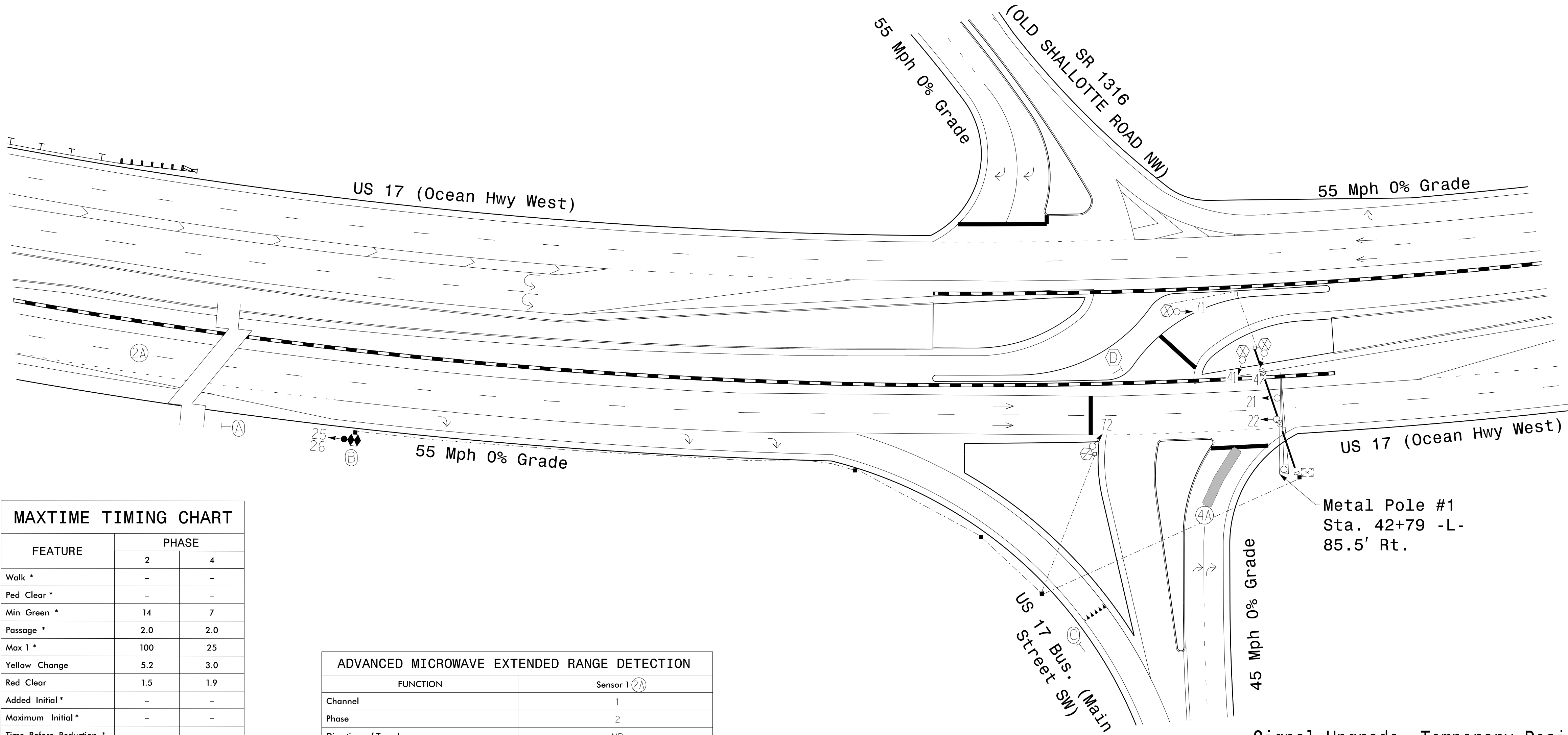
LEGEND

PROPOSED	EXISTING
	N/A
N/A	
	N/A
	N/A
N/A	
(A) Signal Ahead Sign (W3-3)	(A) Signal Ahead Sign (W3-3)
(B) "BE PREPARED TO STOP" Sign (W3-4) w/ "WHEN FLASHING" Plaque (W16-3) (See Figure 1)	(B) "BE PREPARED TO STOP" Sign (W3-4) w/ "WHEN FLASHING" Plaque (W16-3) (See Figure 1)
(C) "YIELD" Sign (R1-2)	(C) "YIELD" Sign (R1-2)
(D) No U-Turn Sign (R3-4)	(D) No U-Turn Sign (R3-4)

MAXTIME TIMING CHART		
FEATURE	PHASE	
	2	4
Walk *	-	-
Ped Clear *	-	-
Min Green *	14	7
Passage *	2.0	2.0
Max 1 *	100	25
Yellow Change	5.2	3.0
Red Clear	1.5	1.9
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	-	-

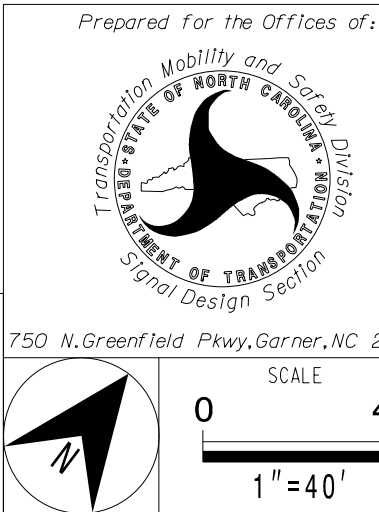
\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

ADVANCED MICROWAVE EXTENDED RANGE DETECTION			
FUNCTION	Sensor 1 (2A)		
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	-

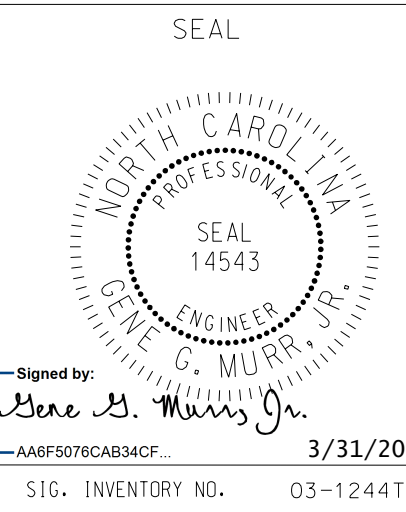


Signal Upgrade- Temporary Design 3 (TMP Phase 4)

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



US 17(Ocean Highway West) 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	



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