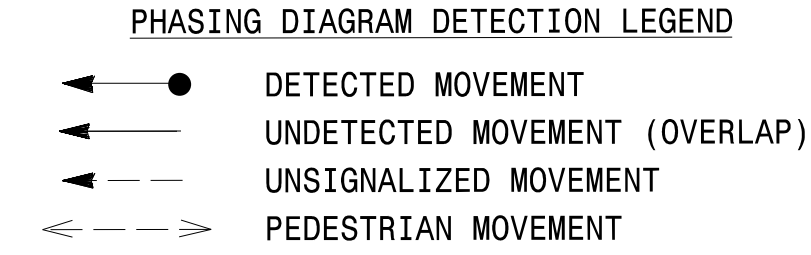
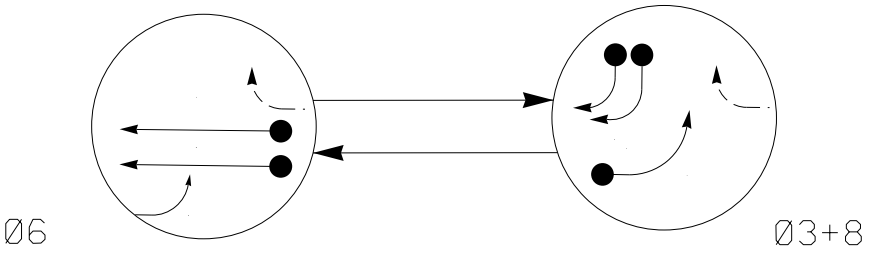


DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	06	03+8	F	
31,32	F		R	
61,62	G	R	R	
81,82	R			

ALTERNATE PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	06	03+8	F	
31,32	R		R	
61,62	G	R	R	
81,82	R			

SIGNAL FACE I.D.

All Heads L.E.D.

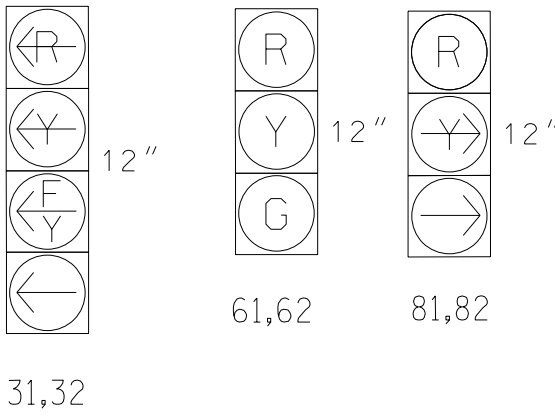
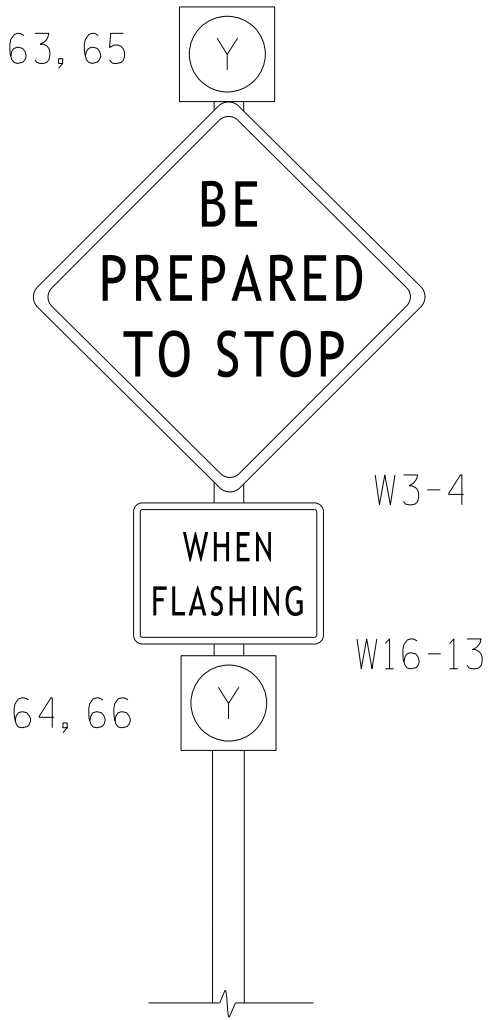


Figure 1



See notes 7 and 8.

MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	URNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
3A	*	0	*	X	3	15**	-	X	-	X	*
8A	*	0	*	-	8	15	-	X	-	X	*

* Multizone microwave detection zone.
** Disable delay during alternate phasing operation

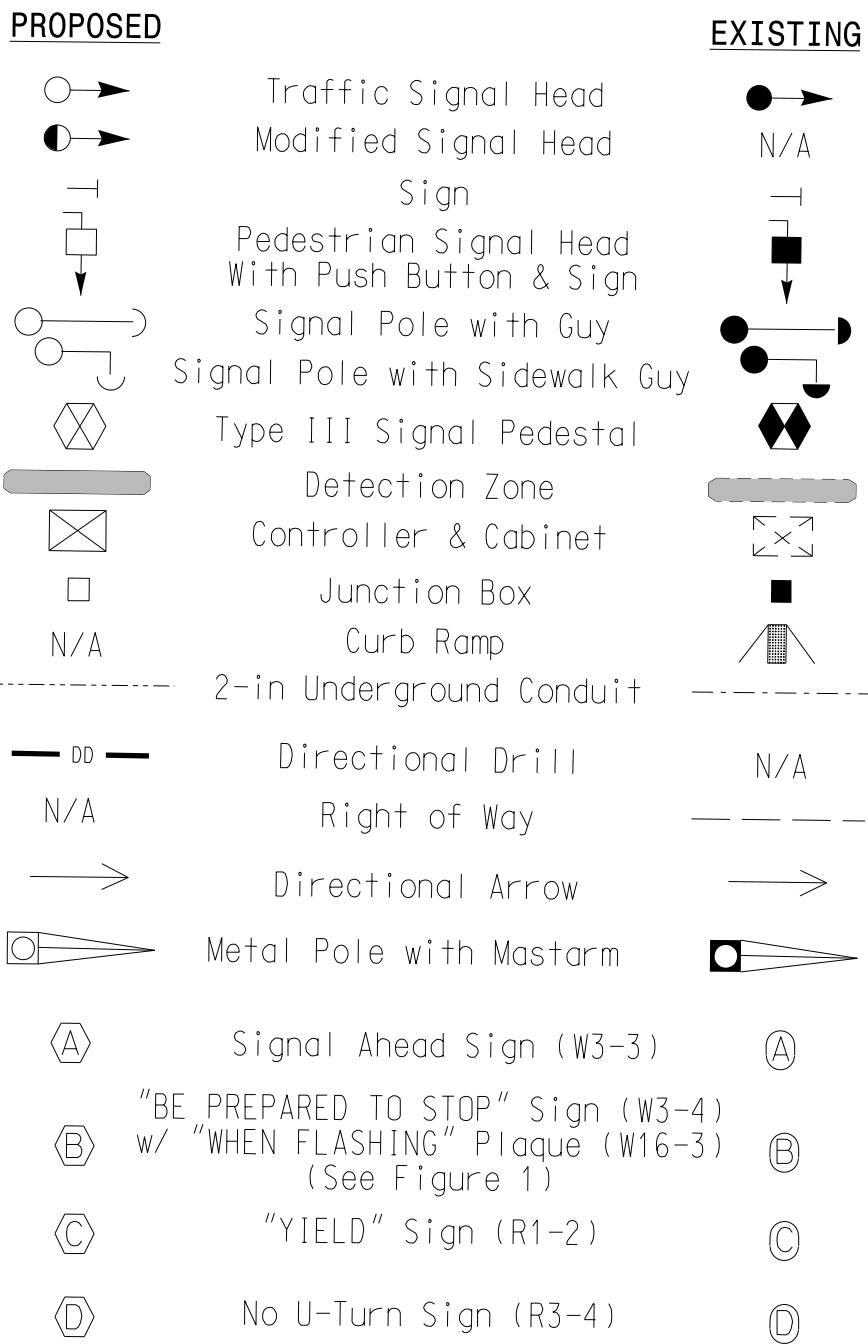
TABLE OF OPERATION		
SIGNAL FACE	INTERVAL	
	1	2
63,65	ON	OFF
64,66	OFF	ON

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.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- 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 6 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



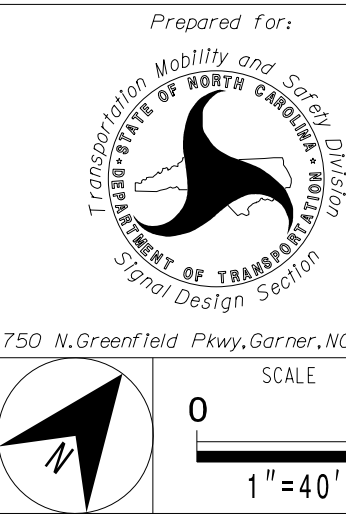
MAXTIME TIMING CHART			
FEATURE	PHASE		
	3	6	8
Walk *	-	-	-
Ped Clear *	-	-	-
Min Green *	7	14	7
Passage *	2.0	2.0	2.0
Max 1 *	25	90	25
Yellow Change	3.0	5.2	3.0
Red Clear	2.1	1.4	2.1
Added Initial *	-	-	-
Maximum Initial *	-	-	-
Time Before Reduction *	-	-	-
Time To Reduce *	-	-	-
Minimum Gap	-	-	-
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 (6A)	
Channel	1		
Phase	6		
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 Frontage Rd NW

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: Gene B. Murr, Jr.

Signature: AABF5078CAB3ACF...

SIG. INVENTORY NO. 03-1249

