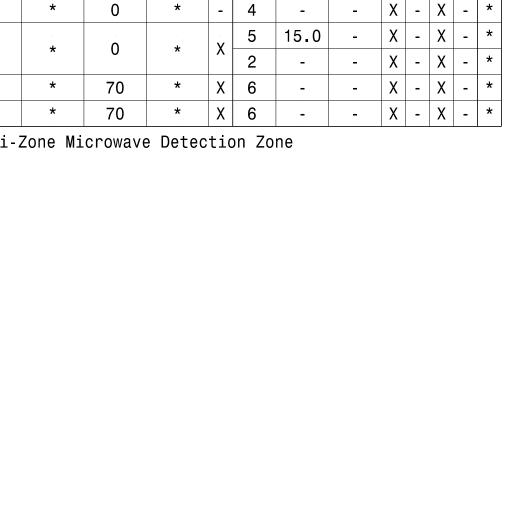
Sig-9.0 R-5600

6 Phase Fully Actuated (NC 107-D14-14)

## 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. Phase 1 and/or phase 5 may be lagged.
- 4. The order of phase 3 and 4 may be reversed.
- 5. Repositon existing signal heads numbered 61 and
- 6. Set all detector units to presence mode.
- 7. Omit "WALK" and flshing "DON'T WALK" with no pedestrian calls.
- 8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 9. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- 10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

## LEGEND **EXISTING** PROPOSED Traffic Signal Head **-**Modified Signal Head N/A Sign Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box Oversized Junction Box 2-in Underground Conduit N/A Right of Way $\longrightarrow$ $\longrightarrow$ Directional Arrow Metal Pole with Mastarm N/A Curb Ramp Truncated Domes Non-Intrusive Detection Zone Type I Pushbutton Post $\blacksquare$ Type II Signal Pedestal — 8″ GAS — Gas Line N/A N/A U/G Sanitary Sewer N/A U/G Water Line Drainage Pipe N/A O/H Pwr. & Utl. Lines "YIELD" Sign (R1-2) "NO TURN ON RED" Sign (R10-11a) Pedestrian Crossing Sign (W11-2) Left Downward Diagonal Arrow Plaque (W16-7pL) Right Downward Diagonal Arrow Plaque (W16-7pR) ♠ No U Turn Sign (R3-4) With "TRUCKS" Plaque ♠



MAXTIME DETECTOR INSTALLATION CHART

\* |-|1 | - |

\* | X | 3 | 3.0

PROGRAMMING

- | X | - | X | -

- | X | - | X | -

Marian Call Delay Extend Q LINI Q PHASE TIME TIME X Q

DETECTOR

SIZE

DISTANCE

FROM STOPBAR (FT)

		R	R			L00P
	12"	12"		12"	<u></u>	1A
( <del>Y</del> ) 12"	$\left(\begin{array}{c} \Gamma \\ \overline{\Upsilon} \end{array}\right)$	$\left( G\right)$	(Y) 12"		16"	3A
						3B
						4A
11 31	51	32	21, 22 61, 62	41, 42	P21, P22 P31, P32	5A
<i>3</i> 1			33		P41, P42	6A
				P6	1, P62, P63, P64	6B
						*Multi-Z

Metal Pole #3

SIGNAL FACE I.D.

All Heads L.E.D.

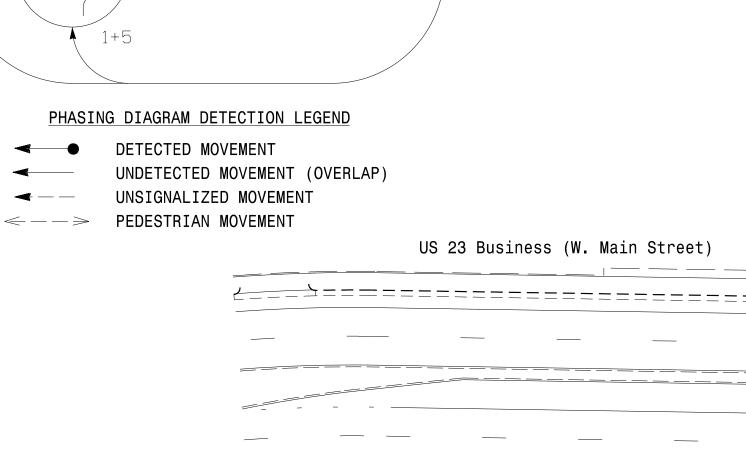


TABLE OF OPERATION

FACE

33

41, 42

P21, P22

P31, P32

P41, P42

25 MPH +2% Grade

(Design Speed 35 MPH)

PHASE

DW|DW| W | W |DW|DW|DR

DW|DW|DW|DW| W |DW|DRH

DW|DW|DW|DW| W |DR

Metal Pole #2

P61, P62 DW W DW W DW DW DR

PHASING DIAGRAM

2+5

	MAX	TIME T	IMING	CHART			
FEATURE	PHASE						
FEATURE	1	2	3	4	5	6	
Walk *	_	14	14	14	_	14	
Ped Clear	_	13	20	22	_	20	
Min Green *	7	12	7	7	7	12	
Passage *	2.0	2.0	2.0	2.0	2.0	3.0	
Max 1 *	25	85	35	40	25	85	
Yellow Change	3.0	4.9	4.2	3.0	3.0	4.9	
Red Clear	2.6	2.1	2.3	1.9	2.9	2.1	
Added Initial *	_	_	_	_	_	_	
Maximum Initial *	_	_	_	_	_	_	
Time Before Reduction *	_	_	_	_	_	_	
Time To Reduce *	_	_	_	_	_	_	
Minimum Gap	_	_	_	_	_	_	
Advance Walk	_	7	7	7	_	7	
Non Lock Detector	Х	_	Х	Х	Х	_	
Vehicle Recall	_	MIN RECALL	-	_	_	MIN RECALL	
Dual Entry	_	_	_	_	_	_	

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and	5
lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.	

Microwave De	etecti	.on		
	(2	'A)		
FUNCTION	Sen	Sensor 1		
Channel		1		
Phase		2		
Direction of Travel	٧	WB		
Туре	Prio	Priority		
Level	2	QUEUE		
Detection Zone (ft)	< 750	_		
Range (ft)	600–100	150–100		
Enable Speed	Υ	Y		
Speed Range (mph)	35–100	1–35		
Enable Estimated Time of Arrival	Υ	N		
Estimated Time of Arrival (sec)	2.5–6.5	_		

Metal Pole #1

**Plans Prepared By:** 

1"=40'

Signal Upgrade - Final Design

US 23 Bus./NC 107 (Main Street) US 23 Bus. (Asheville Highway) SR 1355 (Sunrise Park)

Division 14 Jackson County August 2025 REVIEWED BY: ZM Esposito PREPARED BY: DJ White REVIEWED BY: BN Groome REVISIONS

INIT. DATE Brittany Groome 8/26/2025

"RIGHT TURN ON RED MUST YIELD TO U-TURN" Sign (R10-30)

> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

SEAL

CARN

052936

SIG. INVENTORY NO. |4-0397

DRMP, INC. 8210 UNIVERSITY EXECUTIVE PARK DR. SUITE 220 CHARLOTTE, NC 28262 NC LICENSE NO. F-1524 (704) 549-4260