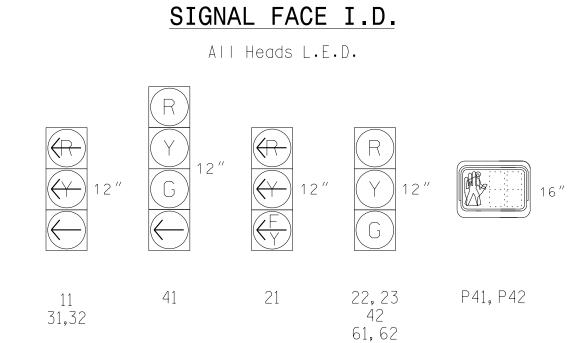


TABLE 0	F 0	PEF	RAT	ION		
		PHASE				
SIGNAL FACE	1 + 6	2 + 6	3	4	FLASH	
11	-					
21	- F	- F	→ R	- R	- R	
22,23	R	G	R	R	R	
31,32			-	- R	▼R	
41	R	R	R	G	R	
42	R	R	R	G	R	
61,62	G	G	R	R	R	
P41,P42	DW	DW	DW	W	DRK	



	MAXTI	ME DET	ECTOR	I	NSTA	LLAT	ON C	HA	RT			
DETECTOR				PROGRAMMING								
L00P	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A	*	0	*	Χ	1	-	=	Χ	_	Χ	-	*
2A	*	70	*	Х	2	_	_	Χ	_	Χ	-	*
2B	*	0	*	Χ	2	_	-	Χ	=	Χ	-	*
3A	*	0	*	Χ	3	-	-	Χ	_	Χ	-	*
3B	*	0	*	Х	3	-	_	Χ	_	Χ	-	*
4A	*	0	*	Х	4	5.0	_	Χ	_	Χ	-	*
6A	*	70	*	Χ	6	_	_	Χ	_	Χ	_	*

* Multi-Zone Microwave Detection Zone

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) LINSTGNALTZED MOVEMENT

	UNSIGNALIZED MOVEMENT
>	PEDESTRIAN MOVEMENT

	<u>-L- Sta.</u> 63' LT. +/
_	G W
-	PROP O/H POW TEL & FO LINES
=	SS
	US 23 Business (W. Main Street)
	E E E E E E E E E E E E E E E E E E E
6	
_	
10	
3.0	_

	MAXTIM	E TIMI	NG CHA	.RT			
FFATURE	PHASE						
FEATURE	1	2	3	4	6		
Walk *	_	_	_	14	_		
Ped Clear	_	_	_	13	_		
Min Green *	7	10	7	7	10		
Passage *	2.0	3.0	2.0	2.0	3.0		
Max 1 *	30	70	50	30	85		
Yellow Change	3.0	4.1	4.2	3.1	4.1		
Red Clear	1.9	3.4	2.8	3.8	3.4		
Added Initial *	_	_	_	_	_		
Maximum Initial *	_	_	_	_	_		
Time Before Reduction *	_	_	_	_	_		
Time To Reduce *	_	_	_	_	_		
Minimum Gap	_	_	_	_	_		
Advance Walk	_	_	_	7	_		
Non Lock Detector	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 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

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

NC 107 (E. Main Street)

-L- Sta. 34+34 +/-82' LT. +/-

	LEGEND	
<u>PROPOSED</u>		<u>EXISTING</u>
\bigcirc	Traffic Signal Head	•
$ \bigcirc \!$	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	Directional Arrow	\longrightarrow
	Curb Ramp	
	Truncated Dome	
	Non-Intrusive Detection Zone	
	Construction Zone	N/A
\bigoplus	Type I Pushbutton Post	
	Type II Signal Pedestal	•
N/A	Tubular Markers	00000
N/A	Work Zone Traffic Barricade	
N/A	Construction Easement	——Е——
N/A	Perm. Drainage/Utility Easement	—— DUE——
N/A	Perm. Drainage Easement	PDE
N/A	Drainage Removal	— 8" GAS —
N/A	Gas Line	
N/A	U/G Sanitary Sewer	SS
N/A	U/G Water Line	w
N I / A	Prop. Drainage Pipe	
N/A	O/H Pwr. & Utl. Lines	
N/A	Telephone Fiber	— — ↑ F0— —
N/A	Utility Pole	\mathcal{L}
A	"YIELD" Sign (R1-2)	(A) (B)
(B)	"NO TURN ON RED" Sign (R10-11a)	(B)
<u>(C)</u>	Pedestrian Crossing Sign (W11-2)	

Phase 1 may be lagged. The order of phase 3 and phase 4 may be reversed. Set all detector units to presence mode. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red. 7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian

achieve the desired detection.

otherwise directed by the Engineer.

January 2024.

8. Program pedestrian heads to countdown the flashing "Don't

4 Phase

Fully Actuated (Timed Based Coordination)

NOTES

and "Standard Specifications for Roads and Structures" dated

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024

2. Do not program signal for late night flashing operation unless

Sig-3.0

R-5600

Walk" time only

Remove existing Yield "HERE TO" Pedestrians Sign (R1-5) 10. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to

11. Maximum times shown in timing chart are for free-run operation

Yield Ahead Sign (W3-2)

Signal Upgrade Temporary Design 1 - TMP Ph1, S1

US 23 Bus./NC 107 (Main Street) at US 23 Bus. (Asheville Highway)/ SR 1355 (Sunrise Park) Division 14 Jackson County

REVISIONS

August 2025 REVIEWED BY: ZM Esposito REVIEWED BY: BN Groome g PREPARED BY: DJ White

INIT. DATE

Brittary Groome 8/26/2025 SIG. INVENTORY NO. |4-0397

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L- Sta. 33+21 +/-73' RT. +/-

-L- Sta. 32+81 +/-112.5' LT. +/-

-L- Sta. 32+51 +/-