

## PHASING DIAGRAM DETECTION LEGEND

<b>←</b>	DETECTED MOVEMENT
<b>~</b>	UNDETECTED MOVEMENT (OVERLAP)
$\blacktriangleleft$ — —	UNSIGNALIZED MOVEMENT
<>	PEDESTRIAN MOVEMENT

MAV	TTME T	TMTNO	CHART				
MAXTIME TIMING CHART							
FEATURE	PHASE						
FEATURE	1	2	3	6			
Walk *	_	13	14	_			
Ped Clear	_	18	16	_			
Min Green *	7	10	7	10			
Passage *	2.0	3.0	2.0	3.0			
Max 1 *	25	70	50	85			
Yellow Change	3.0	4.1	3.1	4.1			
Red Clear	2.9	3.7	4.4	3.7			
Added Initial *	_	-	_	_			
Maximum Initial *	_	-	_	_			
Time Before Reduction *	_	-	_	_			
Time To Reduce *	_	-	_	_			
Minimum Gap	_	-	_	_			
Advance Walk	_	_	_	_			
Non Lock Detector	Х	6	7	_			
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.

SIGNAL FACE I.D. All Heads L.E.D.

TABLE OF OPERATION

SIGNAL

FACE

21,22

31,32

61,62

P21,P22

P31,P32

PHASE

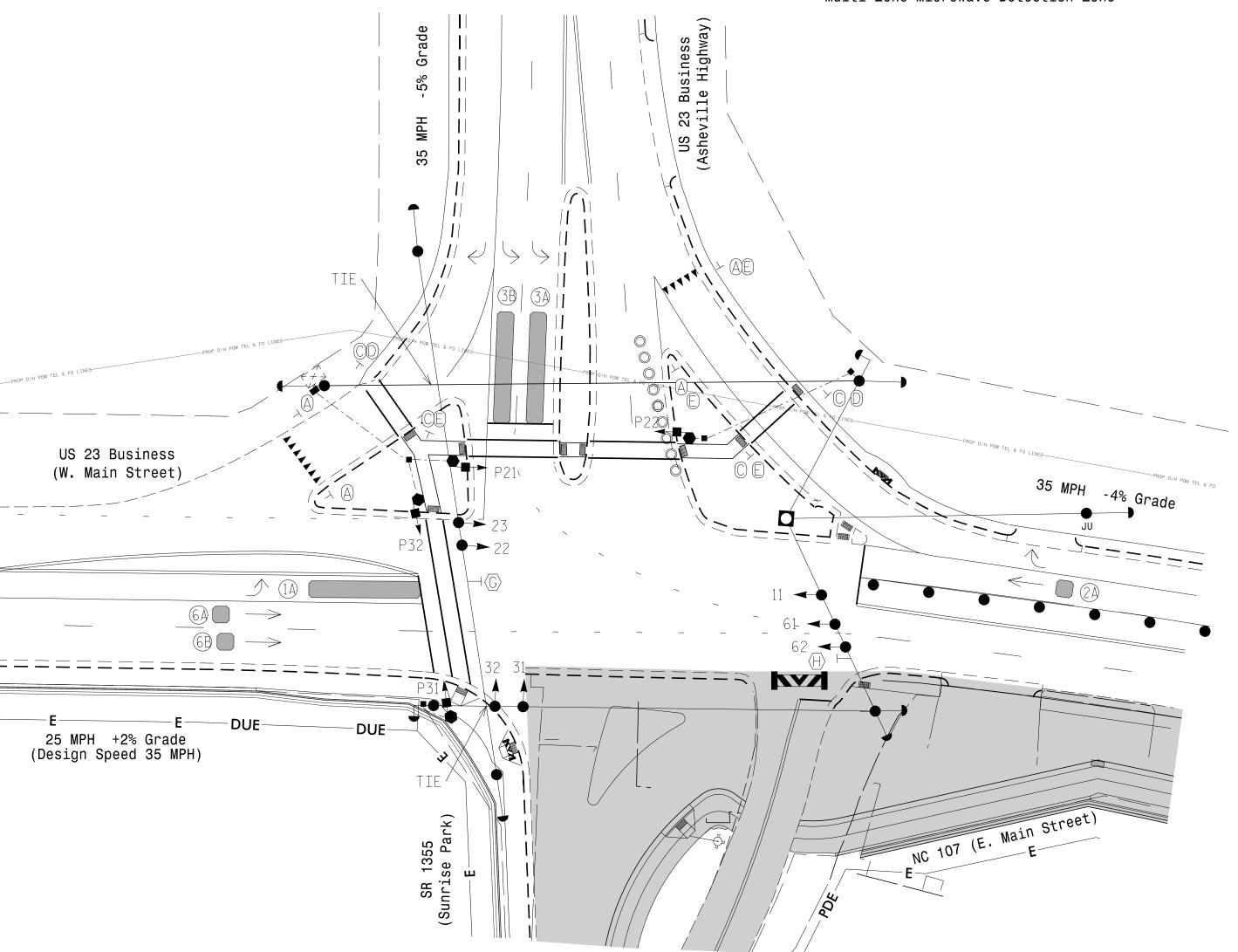
~R |~R |~ | ~R

DW | W | DW | DR |

DW DW W DRI

	MAXTIME DETECTOR INSTALLATION CHART											
	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	*	-	1	-	-	Χ	-	Χ	-	*
2A	*	70	*	-	2	-	-	Χ	-	Χ	-	*
3A	*	0	*	_	3	-	-	Χ	-	Χ	_	*
3B	*	0	*	-	3	_	-	Χ	_	Χ	_	*
6A	*	70	*	_	6	-	-	Χ	-	Χ	-	*
6B	*	70	*	-	6	-		Χ	-	Χ	-	*

\*Multi-Zone Microwave Detection Zone



3 Phase Fully Actuated (Time Based Coordination)

## NOTES

R-5600

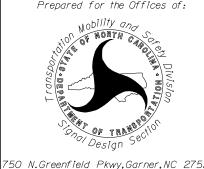
Sig-5.0

- 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.
- Phase 1 may be lagged.
- 4. Remove existing 4 secton signal head numbered 32 and replace with new 3 section head.
- 5. Repostion existing signal head numbered 31.
- Disconnect and bag existing signal head 33.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 9. Program pedestrian heads to countdown the flashing "Don't Walk" time only
- 10. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- 11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

## **LEGEND**

	LLGLIID	
<u>PROPOSED</u>		<b>EXISTING</b>
$\bigcirc$	Traffic Signal Head	<b></b>
<b>O</b> >	Modified Signal Head	N/A
$\overline{}$	Sign	$\overline{}$
	Pedestrian Signal Head With Push Button & Sign	
<b>\</b>	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	Oversized Junction Box	
	2-in Underground Conduit	
—— DD ——	Directional Drill	N/A
N/A	Right of Way	
$\longrightarrow$	Directional Arrow	$\longrightarrow$
N/A	Curb Ramp	
N/A	Truncated Dome	
	Non-Intrusive Detection Zone	
	Construction Zone	N/A
₩	Type I Pushbutton Post	
	Type II Signal Pedestal	•
N/A	Work Zone Drums	
N/A	Tubular Markers	00000
N/A	Work Zone Traffic Barricade	
N/A	Construction Easement	———E———
N/A	Perm. Drainage/Utility Easement	——DUE——
N/A	Perm. Drainage Easement	—— PDE ——
	"YIELD" Sign (R1-2)	$\bigcirc$
(B)	"NO TURN ON RED" Sign (R10-11a)	B
(B) (C) (D)	Pedestrian Crossing Sign (W11-2) Left Downward Diagonal Arrow	O
	Plaque (W16-7pL)	
E	Right Downward Diagonal Arrow Plaque (W16-7R)	E
(F)	"NO MERGE AREA" Plaque (W4-5P)	E
G	No Left Turn Sign (R3-2)	G
$\langle H \rangle$	No Right Turn (R3-1	$\bigoplus$

Signal Upgrade Temporary Design 3 - TMP Ph1, S4



**Plans Prepared By:** 

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

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 REVIEWED BY: BN Groome g PREPARED BY: DJ White REVISIONS INIT. DATE

Brittany Groome 8/26/2025

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED