# PHASING DIAGRAM

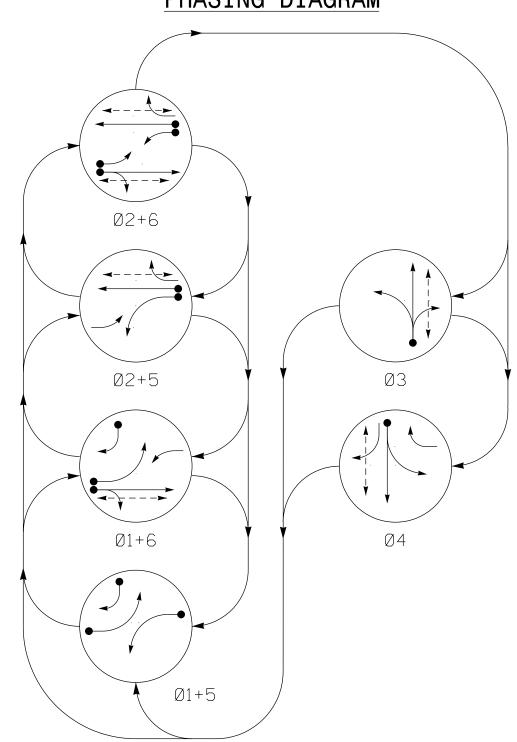


TABLE OF OPERATION										
			Р	HAS	E					
SIGNAL FACE	Ø 1 + 5	Ø 1 + 6	Ø2+5	Ø 2 + 6	Ø 3	Ø 4	FLASH			
1·1	•	•	F	F	<del></del>	<del>-R</del>	<b>-</b> ¥			
21, 22	R	R	G	G	R	R	Υ			
23	R	R	F	F	R	-	<del>Y-</del>			
31	R	R	R	R	G	R	R			
3:2	R	R	R	R	G	R	R			
41	R	R	R	R	R	G	R			
4:2	R	R	R	R	R	G	R			
43	_	<b>→</b>	R	R	R	F	R			
51	•	F	-	F	<del></del>	<del>-</del> R	<b>-</b> ¥			
61, 62	R	G	R	G	R	R	Υ			
P21,P22	DW	DW	W	W	DW	DW	DRK			
P31,P32	DW	DW	DW	DW	W	DW	DRK			
P41,P42	DW	DW	DW	DW	DW	W	DRK			
P61,P62	DW	W	DW	W	DW	DW	DRK			

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

12"	R Y 12"	R Y 12" G 21, 22	R Y 12	Accesible Pedestrian Signal  "
11 51	31 41	32 42 61, 62	 23 43	P31, P32 P41, P42 P61, P62

	DETE	CTOR		PROGRAMMING				PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD	
1 Λ	*		* Y	1	Yes	-	15	-	Ν	-	*		
1 A	*	0	不	ľ	6	Yes	_	3	-	N	ı	*	
1B	*	0	*	Υ	1	Yes	_	15	-	N	i	*	
2A	*	7:0	*	Υ	2	Yes	_	-	-	N	1	*	
3A	*	0	*	Y	3	Yes	_	10	-	N	ı	*	
4 A	*	0	*	Y	4	Yes	_	-	_	N	ı	*	
5A	*		*	¥	5	Yes	-	15	-	N	1	*	
ЭА	*	0	<b>*</b>		2	Yes	_	-	-	N	1	*	
6A	*	70	*	Υ	6	Yes	-	_	_	N	ı	*	

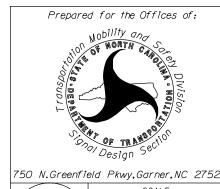
<sup>\*</sup> Multizone Microwave Detection Zones

# US <sub>129</sub> 35 MPH 0% Grade Kerr Drug Entrance

	ACCESSIBLE PEDESTRIAN SIGNAL OPERATION									
SIGNAL FACE	VOICE	TONES	INTERVAL	SPEECH MESSAGE						
P21	-	Χ	Walk	(Percussive Tone)						
ΓΖΙ	X	-	Flashing Don't Walk/Don't Walk	Wait.Wait to cross Sweetwater.						
P22	-	Χ	Walk	(Percussive Tone)						
ΓΖΖ	X	-	Flashing Don't Walk/Don't Walk	Wait.Wait to cross Sweetwater.						
P31	-	Χ	Walk	(Percussive Tone)						
F 31	X	-	Flashing Don't Walk/Don't Walk	Wait.Wait to cross US 129.						
P32	-	Χ	Walk	(Percussive Tone)						
ГЈС	X	-	Flashing Don't Walk/Don't Walk	Wait.Wait to cross US 129.						
P41	-	Χ	Walk	(Percussive Tone)						
Γ41	X	_	Flashing Don't Walk/Don't Walk	Wait.Wait to cross US 129.						
P42	-	Χ	Walk	(Percussive Tone)						
Γ42	X	-	Flashing Don't Walk/Don't Walk	Wait.Wait to cross US 129.						
P61	-	Χ	Walk	(Percussive Tone)						
L 0 I	X	-	Flashing Don't Walk/Don't Walk	Wait. Wait to cross Kerr Drug.						
DCO	-	Χ	Walk	(Percussive Tone)						
P62	X	-	Flashing Don't Walk/Don't Walk	Wait.Wait to cross Kerr Drug.						

### (TMP Phase II) Prepared for the Offices of:

Signal Upgrade-Temporary Design 2



VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27607 P: 919-829-0328

## US 129 NC 143 (Sweetwater Road)

Jianzin Ma 5/10/2022 827E1953981444F... DATE

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

SIG. INVENTORY NO. 14-0750T2

ision (Sich		Kerr Drug Entrance									
		Division	14	Graham C	ounty	Robbin	sville				
onal Design Section		PLAN DATE:	Мау	2022	REVIEWED BY:	M. Sty	gles				
Greenfield Pkwy,Garner,NC	27529	PREPARED BY:	J. N	la	REVIEWED BY:						
SCALE			REVISION	NS .		INIT.	DATE				
0	40										
<											
1"=40'											

#### PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

 $<\!\!--\!\!>$  PEDESTRIAN MOVEMENT

	AS(	C/3 TIM	MING CH	HART						
	PHASE									
FEATURE	1	2	3	4	5	6				
Min Green *	7	10	7	7	7	10				
Walk *	-	7	7	7	-	7				
Ped Clear	-	24	15	16	-	8				
Veh. Extension *	2.0	3.0	2.0	2.0	2.0	3.0				
Max 1 *	15	45	15	25	15	45				
Yellow	3.0	3.9	3.8	3.0	3.0	3.9				
Red Clear	2.6	1.8	2.1	2.9	1.9	1.8				
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0				
Actuations B4 Add *	-	_	-	-	-	-				
Seconds /Actuation *	-	-	-	-	-	-				
Max Initial *	-	-	-	-	-	-				
Time Before Reduction *	-	-	-	-	-	-				
Time To Reduce *	-	-	-	-	-	-				
Minimum Gap	-	-	-	-	-	-				
Locking Detector	-	-	-	-	-	-				
Recall Position	-	VEH RECALL	-	-	-	VEH RECALL				
Dual Entry	-	-	-	-	-	-				
Simultaneous Gap	X	X	X	X	X	X				

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what

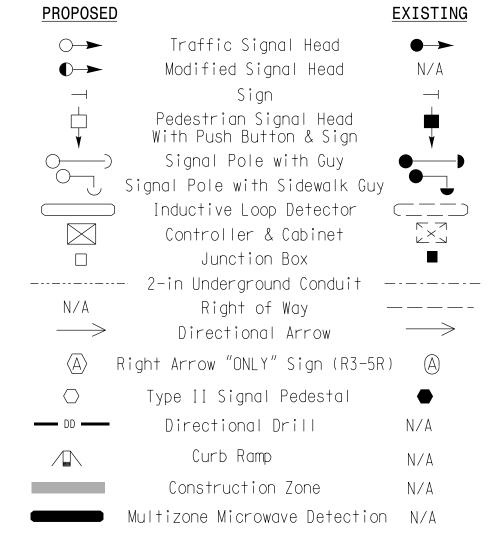
is shown. Min Green for all other phases should not be lower than 4 seconds.

## Fully Actuated Isolated

6 Phase

#### NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 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. Set all detector units to presence mode.
- 5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 6. Program pedestrian heads to countdown the flashing 'Don't Walk' time only.
- 7. This intersection features a multizone microwave detection system. Install detectors according to manufacturer's specifications to ensure optimum detection zone coverage.
- 8. Pavement markings for stop lines and crosswalks are existing.
- 9. This intersection features accessible pedestrian signals utilizing percussive tone walk indications.
- 10. Reposition all existing signal heads.



LEGEND