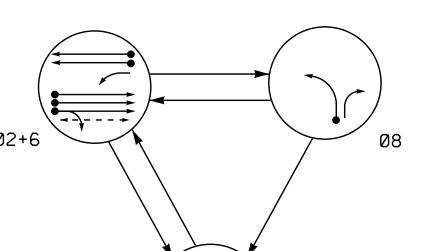
DEFAULT PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

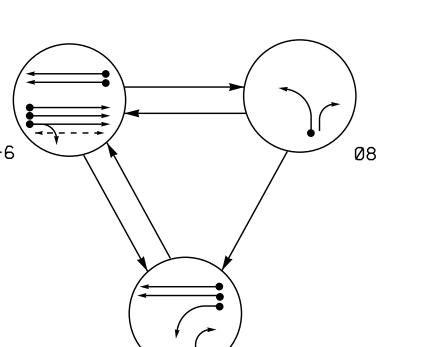
← − − > PEDESTRIAN MOVEMENT

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

Ø2+6	
	Ø1+6

ALTERNATE	PHASING	DIAGRAM



82	\mathbb{R}	R	G	R
P21, P22	DW	W	DW	DRK

81 82

PHASE

TABLE OF OPERATION										
	PHASE									
SIGNAL FACE	Ø1+6	∞ N+6	Ø8	FLANI						
11	\	#	#	∢						
21, 22, 23	R	G	R	Υ						
61, 62	G	G	R	Υ						
81	R	R	G	R						
82	\mathbb{R}	R	G	R						
P21, P22	DW	W	DW	DRK						

<u>Sta. 55+11 -L- +/-</u> 59' LT +/-

ALTERNATE PHASING

DEFAULT PHASING

TABLE OF OPERATION

SIGNAL

FACE

21, 22, 23

61,62

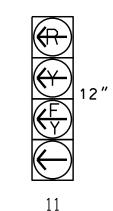
SE-PAC 2070 LOOP & DETECTOR UNIT INSTALLATION CHART DETECTOR PROGRAMMING INDUCTIVE LOOPS

INDUCTIVE LOOPS																				
	TINDOCIT	VE LOO	r0								OPEF	RATI	I NO	MODE	•			LOOPS	STA	TUS
						🖳	TIM	ING	0	1	2	3	4	5	6	7	I	8		
ZONE NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	MEM	EXISTING	ASSIGNED PHASE	DELAY	EXTEND (STRETCH)	VEHICLE	PEDESTRIAN	1 CALL	STOP A	STOP B	PROT/PER LEFT	PROT/PER THROUGH	AND	SWITCH	SYSTEM L	NEW	EXISTING
1 A	6X40	*	0	Χ	1	1	5 SEC.	- SEC.	Χ	_	-	1	1	1	-	-	ı	ı	_	-
1B	6X40	*	0	Χ	ı	1	15 SEC.	- SEC.	Χ	_	ı	ı	ı	_	-	1	ı	-	_	-
2Α	6X6	*	300	Χ	1	2	- SEC.	- SEC.	Χ	_	1	1	ı	ı	-	1	ı	ı	-	-
2B	6X6	*	300	Χ	-	2	- SEC.	- SEC.	Χ	_	-	ı	ı	ı	-	-	-	ı	_	_
2C	6X6	*	300	Χ	1	2	- SEC.	- SEC.	Χ	_	-	-	-	-	_	1	1	-	-	-
6 A	6X6	*	300	Χ	1	6	- SEC.	- SEC.	Χ	-	1	ı	-	_	-	ı	ı	-	-	-
6B	6X6	*	300	Χ	-	6	- SEC.	- SEC.	Χ	_	-	ı	ı	ı	-	-	1	-	-	_
8.8	6X40	*	0	Χ	_	8	- SEC.	- SEC.	Χ	-	_	ı	ı	ı	_	_	-	-	-	_

* Video Detection Zone

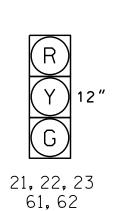
SIGNAL FACE I.D.

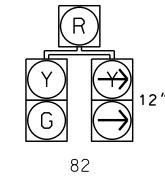
All Heads L.E.D.



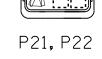
<u>Sta. 56+17 -L- +/-</u> /58' LT +/-

- (1A) √





SR 2000 (Falls of Neuse Rd.)



У √

1. Refer to "Roadway Standard Drawings NCDOT" 2. Do not program signal for late night flashing

Engineer. 3. Phase 1 may be lagged.

dated January 2018.

4. Set all detector units to presence mode.

dated January 2018 and "Standard

5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.

operation unless otherwise directed by the

3 Phase

Fully Actuated

(Raleigh Signal System)

NOTES

Specifications for Roads and Structures"

- 6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 8. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- 10. Program phase 4 as a dummy phase for Ring 1.
- 11. This intersection features a video detection system. Shown locations of detectors are conceptual only. Refer to the manufacturer's guidelines for optimal detector placement.
- 12. This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.

LEGEND

<u>PROPOSED</u>		EXISTING
\bigcirc	Traffic Signal Head	
O	Modified Signal Head	N/A
$\overline{}$	Sign	\dashv
\downarrow	Pedestrian Signal Head With Push Button & Sign	#
$\bigcirc \hspace{-1em} \longrightarrow \hspace{-1em})$	Signal Pole with Guy	
S	ignal Pole with Sidewalk Guy	y • • • • • • • • • • • • • • • • • • •
	Inductive Loop Detector	
	Controller & Cabinet	Κ×3
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
•	Construction Zone Drums	•
	Construction Zone	·
∞	Out of Pavement Detector	•
	Video Detection Zone	

	<u>Sta</u> 59'
SR 2000 (Falls of Neuse Rd.	
	<u>·</u>
	→ — — — — — — — — — — — — — — — — — — —
Sidewalk 45 MPH -1% Grade	
	- — — — — — -
SE-PAC 2070 TIMING CHART	C+0

SE-PAC 2070 TIMING CHART									
PHASE									
FEATURE	1	2	4	6	8				
Min Green *	7	12	7	12	7				
Passage Gap *	2.0	6.0	2.0	6.0	2.0				
Maximum Green *	15	90	30	90	30				
Yellow Change	3.0	4.7	3.0	4.7	3.0				
Red Clear	2.8	1.1	2.8	1.1	2.8				
Walk *	-	4	-	-	-				
Pedestrian Clear	-	10	-	-	-				
Added Initial *	-	1.0	-	1 . 5	-				
Maximum Initial *	-	34	-	34	-				
Time Before Reduction *	-	15	-	15	-				
Time To Reduce *	-	30	-	30	-				
Minimum Gap	-	3.0	-	3.0	-				
Recall Mode	-	MIN RECALL	-	MIN RECALL	-				
Vehicle Call Memory	NON-LOCK	LOCK	-	LOCK	NON-LOCK				
Dual Entry	-	-	ON	-	-				
Simultaneous Gap	ON	ON	ON	ON	ON				

* 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

			ACCESSIBLE PEDESTRI	AN SIGNAL OPERATION
SIGNAL FACE	VOICE	TONES	INTERVAL	SPEECH MESSAGE
D21 D22	-	Χ	Walk	(Percussive Tone)
P21, P22	Χ	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Morrocroft.

Signal Upgrade - Temp. Design 1 (TMP Phase I & II)



SR 2000 (Falls of Neuse Rd.) Morrocroft Drive

		5				
	Divsion 5	Wake Cou		Raleigh		
	PLAN DATE:	July 2019	REVIEWED BY:			
7529	PREPARED BY: I.	O. Umozurike	REVIEWED BY:			
	RI	EVISIONS		INIT.	DATE	_

SIG. INVENTORY NO. 05-2293T

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED