6 Phase							
Fully Actuated							
(Raleigh Signal System)							

## PROJECT REFERENCE NO. U-5826

## 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. Phase 3 may be lagged.
- 5. Set all detector units to presence mode.
- 6. Omit phase 9 and sign D with no pedestrian calls.
- 7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 9. This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
- 10. Phase 9 and phase 2 or 4 pedestrian timing is designed as a 2 stage crossing when crossing the median island. The FDW time shown is only intended to get a pedestrian to/from the island during a single crossing. Install R10-3d signs as appropriate.
- 11. Illuminate sign D at the beginning of the Ped 9 "Walk" interval. This sign will remain illuminated until the end of the Ped 9 Flashing "Don't Walk" interval.
- 12. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

Traffic Signal Head

Modified Signal Head

Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy

Signal Pole with Sidewalk Guy

Inductive Loop Detector

Controller & Cabinet

Junction Box

2-in Underground Conduit

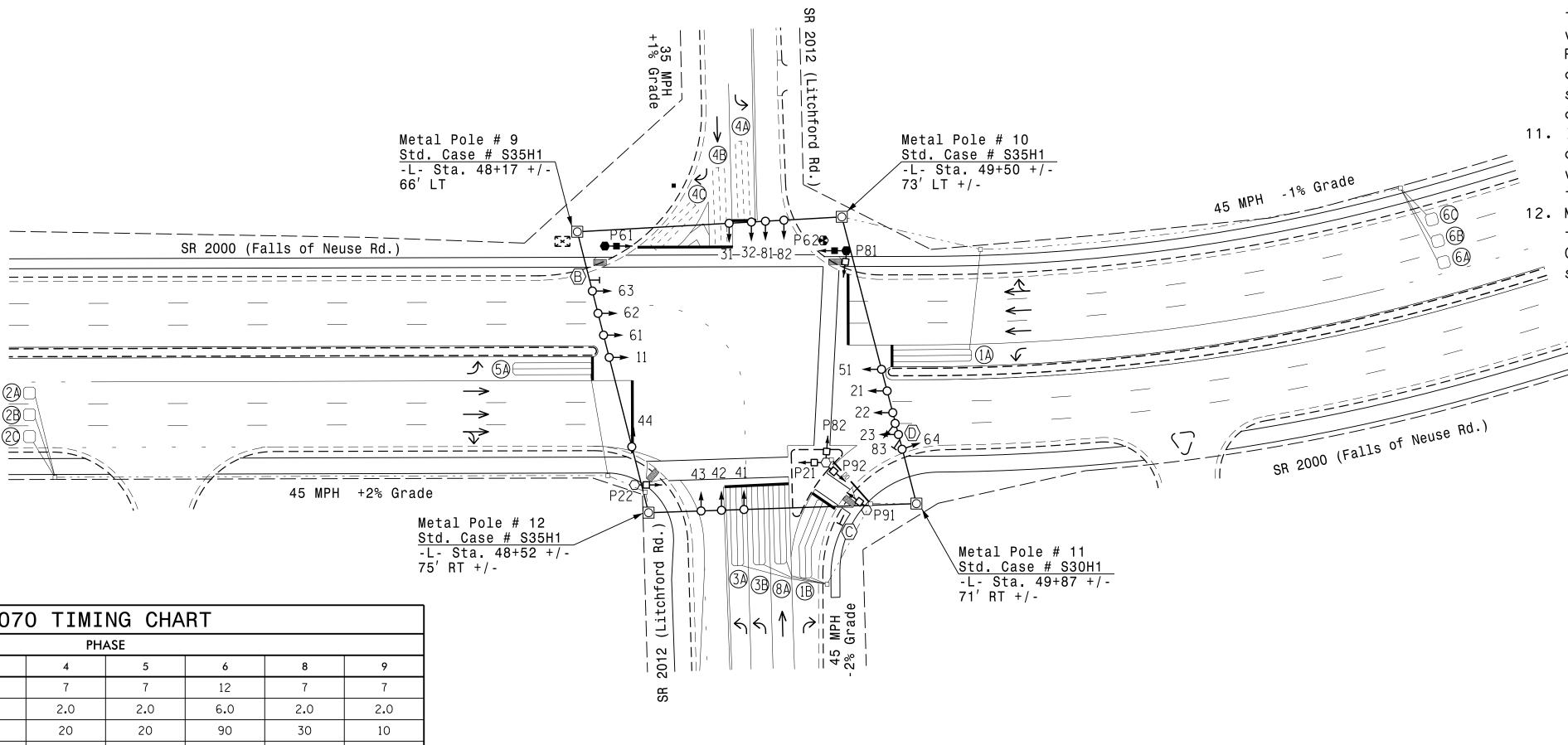
Right of Way

Directional Arrow Curb Ramp

Type I Pushbutton Post Type II Signal Pedestal Metal Strain Pole Directional Drill

"YIELD" Sign (R1-2) "DO NOT BLOCK INTERSECTION" (R10-7) "STOP HERE ON RED" Sign (R10-6) "NO TURN ON RED"

L.E.D. Blankout Sign



SE-PAC 2070 LOOP & DETECTOR UNIT INSTALLATION CHART

15 SEC.

- SEC.

5 SEC.

5 SEC.

3 SEC.

10 SEC.

15 SEC.

5 SEC.

SEC.

SEC.

SEC.

SEC.

SEC. >

SEC.

- SEC. >

- SEC. 7

- SEC. 7

- SEC.

SEC. - SEC.

SEC. - SEC. X

SEC.

SEC. - SEC. >

INDUCTIVE LOOPS

6X40 | 2-4-2

6X40 | 2-4-2

6X6 6X6

6X6 | 6X6

6X40 2-4-2

6X40 2-4-2

6X40 2-4-2

6X40 2-4-2

6X30 2-4-2

6X40 2-4-2

6X6 6X6

6X6 6X6

6X40 6X6

6X6

6X6

SIZE

6X6

LOOP NO.

1B

2 A

2B

20

5 A

6 A

6B

DIST. FROM

300

300

300

300

TURNS | STOPBAR

DETECTOR PROGRAMMING

OPERATION MODE

		SE-P	AC 207	O TIMI	NG CHA	.RT			
FEATURE	PHASE								
	1	2	3	4	5	6	8	9	
Min Green *	7	12	7	7	7	12	7	7	
Passage Gap *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	2.0	
Maximum Green *	15	90	40	20	20	90	30	10	
Yellow Change	3.0	4.6	3.0	4.7	3.0	4.6	4.7	4.6	
Red Clear	3.3	2.0	3.3	2.4	3.3	2.0	2.4	2.0	
Advance Walk *	-	4	-	-	-	4	4	-	
Walk *	-	7	-	-	-	7	7	4	
Pedestrian Clear	-	15	-	-	-	25	22	4	
Added Initial *	-	1.0	-	-	-	1.0	-	-	
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	NON-LOCK	NON-LOCK	NON-LOCK	LOCK	NON-LOCK	NON-LOCK	
Dual Entry	-	-	-	ON	-	-	ON	-	
Simultaneous Gap	ON	ON	ON	ON	ON	ON	ON	ON	

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SPEECH MESSAGE

Litchford. Walk sign is on to cross Litchford.

Wait. Wait to cross Litchford.

(Percussive Tone)

Wait. Wait to cross Litchford.

(Percussive Tone)

Wait. Wait to cross Litchford.

(Percussive Tone)

Wait. Wait to cross Falls of Neuse.

Falls of Neuse. Walk sign is on to cross Falls of Neuse

Wait. Wait to cross Falls of Neuse.

(Percussive Tone)

Wait. Wait to cross Litchford Ramp.

Litchford. Walk sign is on to cross Litchford Ramp.

Wait. Wait to cross Litchford Ramp.

INTERVAL

Flashing Don't Walk / Don't Walk

SIGNAL

FACE

P61, P62

\* 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

	SIGN	NAL FACE	<u>I.D.</u>	
	А			
11 51 31, 32	12" 41	P 12" 21, 22, 23 42, 43, 44 61, 62, 63, 64	R Y G 82, 83	P21, P22 P61, P62 P81, P82

Signal Upgrade - Final Design (Sheet 1 of 2) SR 2000 (Falls of Neuse Rd.



SR 2012 (Litchford Rd.)

Division 5 Wake County January 2023 REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: J.A. Lohr REVISIONS INIT. DATE

 $\boxtimes$ 

SIGNATURES COMPLETED CARC 026486 01/03/202 DATE

05-1156

SIG. INVENTORY NO.

**EXISTING** 

**●**→

K X N

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N/A

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