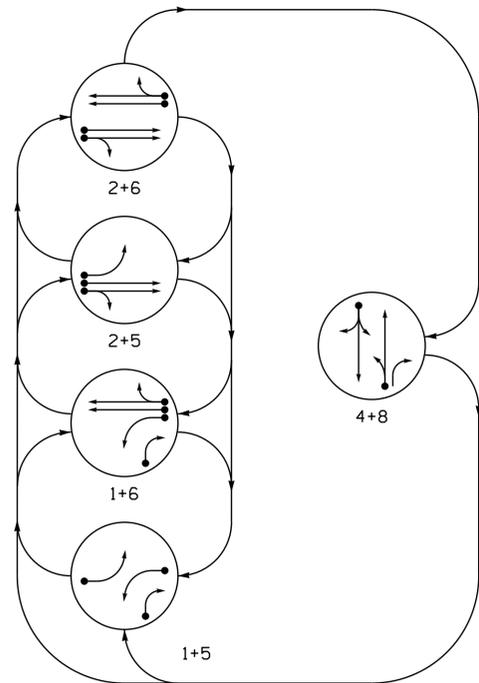


PHASING DIAGRAM



SIGNAL FACE	PHASE					
	1+5	1+6	2+5	2+6	4+8	F L S H
11	←	←	←	←	←	←
21, 22	R	R	G	G	R	R
41, 42	R	R	R	R	G	R
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	R
81, 83	R	R	R	R	G	R
82	R	R	R	R	G	R

SE-PAC 2070 LOOP & DETECTOR UNIT INSTALLATION CHART																				
INDUCTIVE LOOPS					DETECTOR PROGRAMMING															
ZONE	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW EXISTING	ASSIGNED PHASE	TIMING		OPERATION MODE												
						DELAY	EXTEND (STRETCH)	VEHICLE	PEDESTRIAN	1 CALL	STOP A	STOP B	PROTECTOR THROUGH	PROTECTOR THROUGH	AND	SWITCH	SYSTEM LOOPS	STATUS		
1A	6X40	*	0	X	-	1	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
1B	6X40	*	0	X	-	1	15.0 SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
2A	6X6	*	300	X	-	2	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
2B	6X6	*	300	X	-	2	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
4A	6X40	*	0	X	-	4	5.0 SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
5A	6X40	*	0	X	-	5	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
6A	6X6	*	300	X	-	6	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
6B	6X6	*	300	X	-	6	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-
8A	6X40	*	0	X	-	8	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	-	*	-

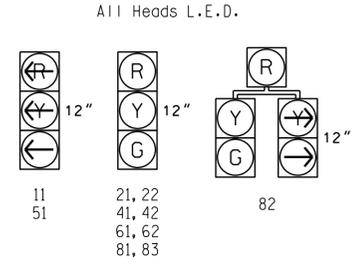
* Non-intrusive detection zone.

5 Phase Fully Actuated (Raleigh Signal System)

NOTES

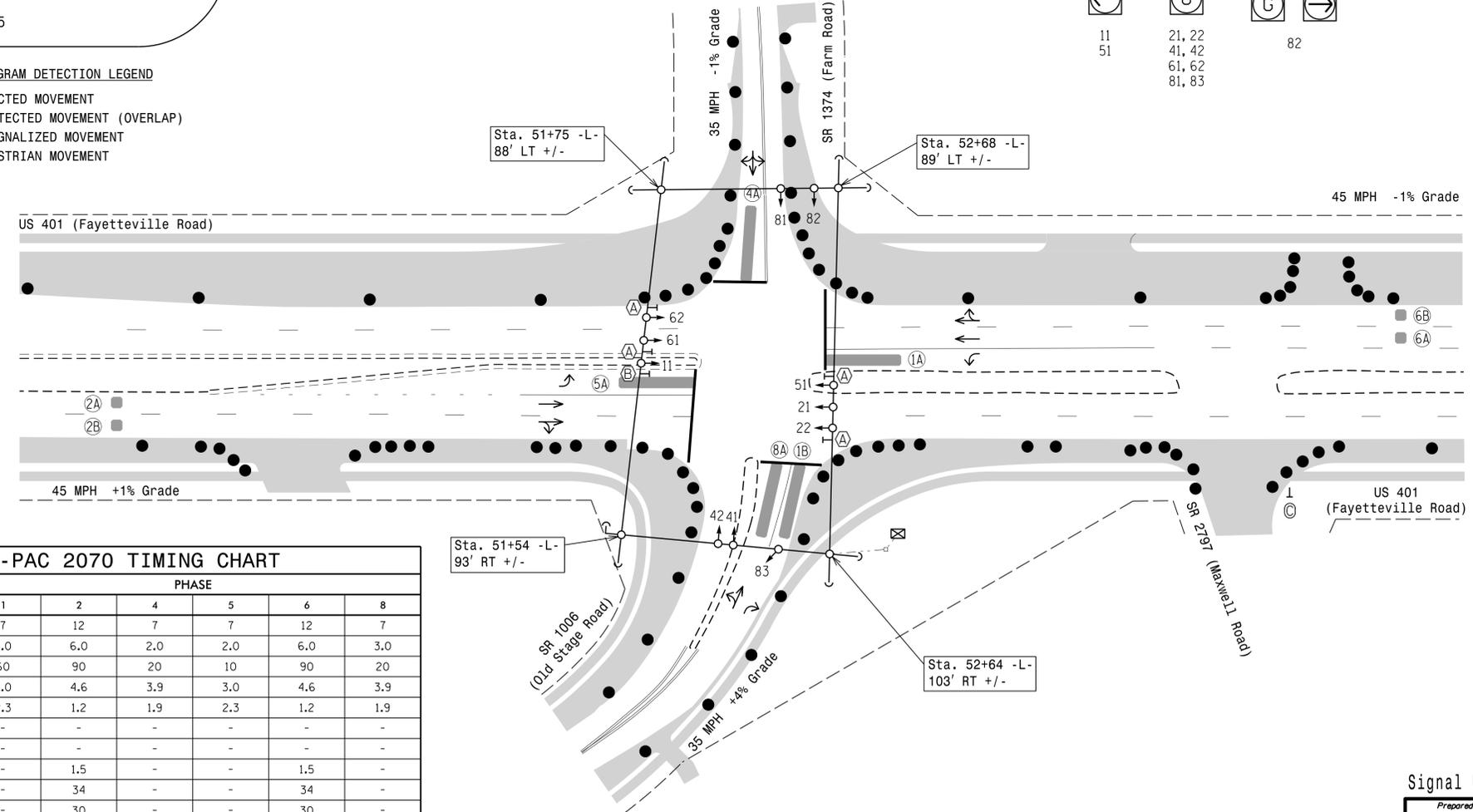
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or 5 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Pavement markings are existing.
7. This intersection uses non-intrusive detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

- ← ● DETECTED MOVEMENT
- ← ○ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ← - - - PEDESTRIAN MOVEMENT



FEATURE	SE-PAC 2070 TIMING CHART					
	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Passage Gap *	3.0	6.0	2.0	2.0	6.0	3.0
Maximum Green *	60	90	20	10	90	20
Yellow Change	3.0	4.6	3.9	3.0	4.6	3.9
Red Clear	2.3	1.2	1.9	2.3	1.2	1.9
Walk *	-	-	-	-	-	-
Pedestrian Clear	-	-	-	-	-	-
Added Initial *	-	1.5	-	-	1.5	-
Maximum Initial *	-	34	-	-	34	-
Time Before Reduction *	-	30	-	-	30	-
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	LOCK	NON-LOCK
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	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.

LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| ○ → Traffic Signal Head | ● → |
| ● → Modified Signal Head | N/A |
| ↑ Sign | ↑ |
| □ → Pedestrian Signal Head | □ → |
| ○ → Signal Pole with Guy | ○ → |
| ○ → Signal Pole with Sidewalk Guy | ○ → |
| ○ → Inductive Loop Detector | ○ → |
| □ → Controller & Cabinet | □ → |
| □ → Junction Box | □ → |
| --- 2-in Underground Conduit | --- |
| N/A Right of Way | --- |
| → Directional Arrow | → |
| ■ Non-Intrusive Detection Zone | ■ |
| ■ Construction Zone | ■ |
| ● Construction Zone Drums | ● |
| (A) Street Name Sign By Others (D3-1) | (A) |
| (B) "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | (B) |
| (C) "STOP" Sign (R1-1) | (C) |

Signal Upgrade - Temporary Design 1 (TMP Phases I & II)

	US 401 (Fayetteville Road)		
	at SR 1006 (Old Stage Road) and SR 1374 (Farm Road)		
Division 5	Wake County	Raleigh	
PLAN DATE: February 2025	REVIEWED BY:		
PREPARED BY: J.A. Lohr	REVIEWED BY:		
REVISIONS	INIT.	DATE	

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

03/27/2025
SIG. INVENTORY NO. 05-058311