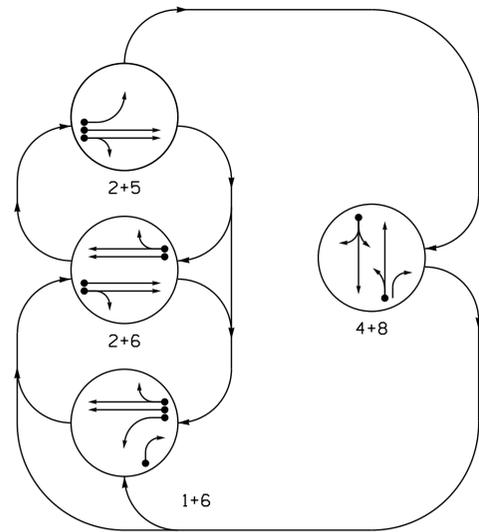


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

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

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							STATUS					
						DELAY	EXTEND (STRETCH)	VEHICLE	PEDESTRIAN	1 CALL	2	3	STOP A	STOP B		PROFPER THROUGH	PROFPER THROUGH	AND	SWITCH	SYSTEM LOOPS
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	-	-	-	-	-	-	-	-	-	-	*

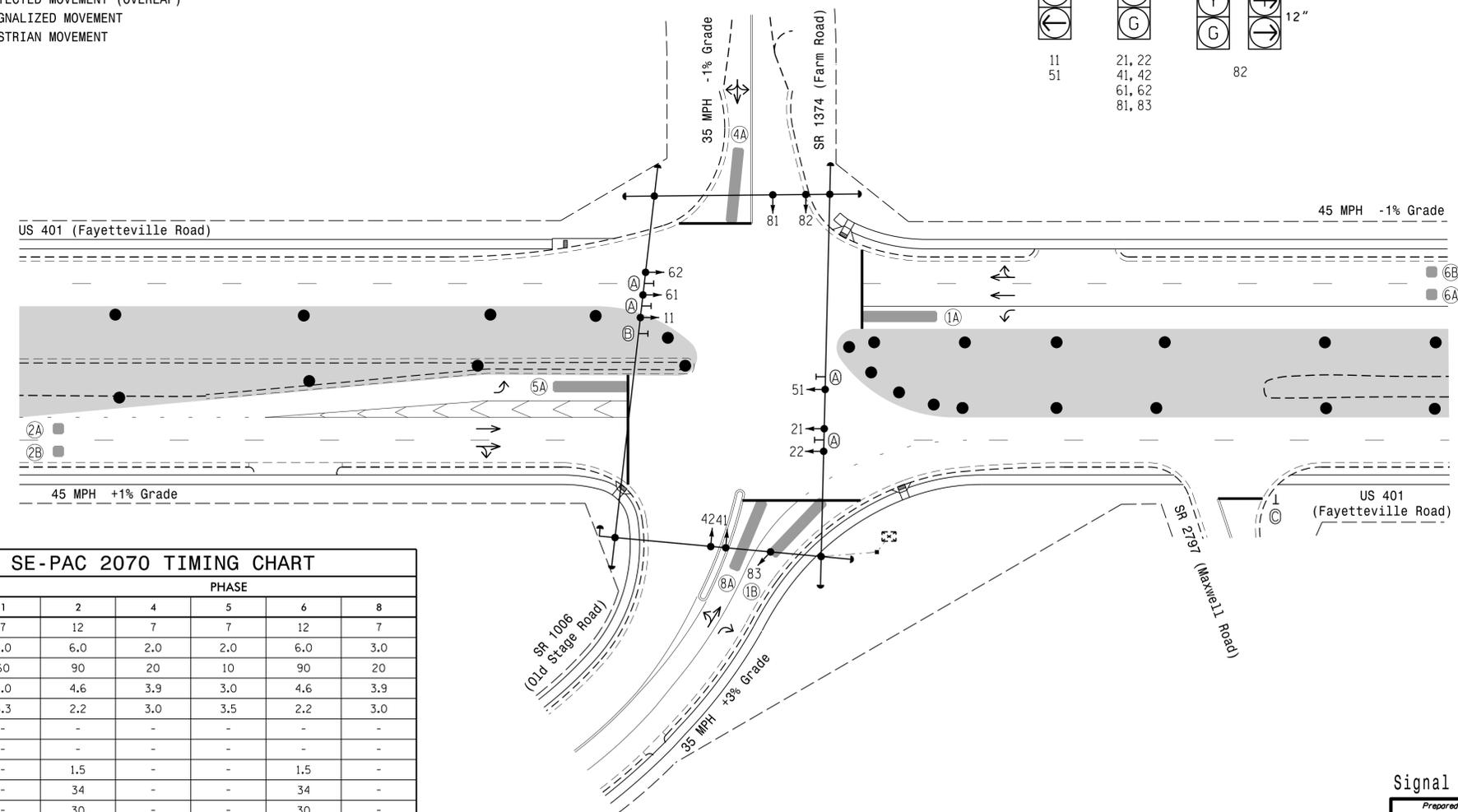
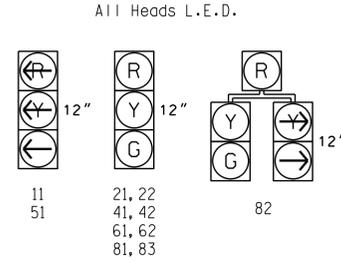
\* Non-intrusive detection zone.

4 Phase Fully Actuated (Raleigh Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- The order of phase 1 and phase 5 may be reversed, but phase 1 and phase 5 shall not operate simultaneously.
- Set all detector units to presence mode.
- Reposition signal heads numbered 11, 21, 22, 61, and 62.
- This intersection uses non-intrusive detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.



FEATURE	SE-PAC 2070 TIMING CHART					
	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	3.3	2.2	3.0	3.5	2.2	3.0
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	●
N/A	▬	Curb Ramp	▬
(A)	(A)	Street Name Sign By Others (D3-1)	(A)
(B)	(B)	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	(B)
(C)	(C)	"STOP" Sign (R1-1)	(C)

Signal Upgrade - Temporary Design 2 (TMP Phase III)

	US 401 (Fayetteville Road) at SR 1006 (Old Stage Road) and SR 1374 (Farm Road)		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER ROBERT J. ZIEMANN License No. 026486
	Division 5 Wake County Raleigh	PLAN DATE: February 2025 REVIEWED BY:	
750 N. Greenfield Pkwy, Garner, NC 27529	SCALE 0 40 1" = 40'	REVISIONS _____ INIT. DATE	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 03/27/2025 DATE SIG. INVENTORY NO. 05-058312

26-MAR-2025 14:52  
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 J. Lohr