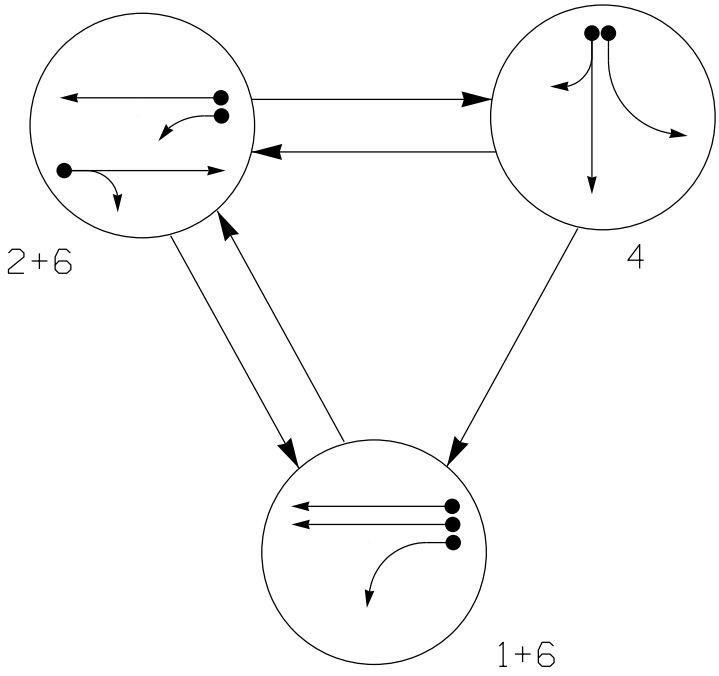


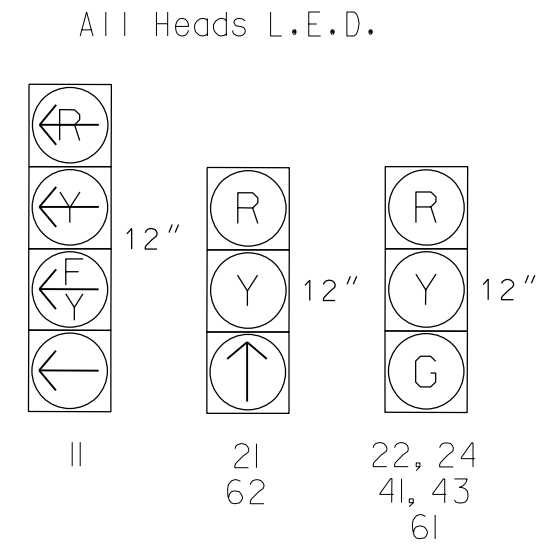
PROJECT REFERENCE NO.	SHEET NO.
U-4758	Sig. 24.0

PHASING DIAGRAM



SIGNAL FACE	PHASE			
	1 + 6	2 + 6	4	1
11	←	→	←	→
21	R	↑	R	R
22, 24	R	G	R	R
41, 43	R	R	G	R
61	G	G	R	R
62	↑	↑	R	R

SIGNAL FACE I.D.



LOOP & DETECTOR UNIT INSTALLATION CHART TRAFFICWARE APOGEE SOFTWARE 2070 CONTROLLER												
INDUCTIVE LOOPS/ZONES					DETECTOR PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	URNS	NEW LOOP	PHASE	SWITCH (PHASE)	DELAY TIME	STRETCH TIME	CALLING	EXTENSION	ADDED INIT.	SYSTEM LOOP
1A*	6X40	0	*	*	1	-	15.0	-	X	X	-	*
2A*	6X6	300	*	*	2	-	-	-	X	X	-	*
4A*	6X40	0	*	*	4	-	-	-	X	X	-	*
4B*	6X40	0	*	*	4	-	10.0	-	X	X	-	*
6A*	6X6	300	*	*	6	-	-	-	X	X	-	*

*Non-Intrusive Detection Zone

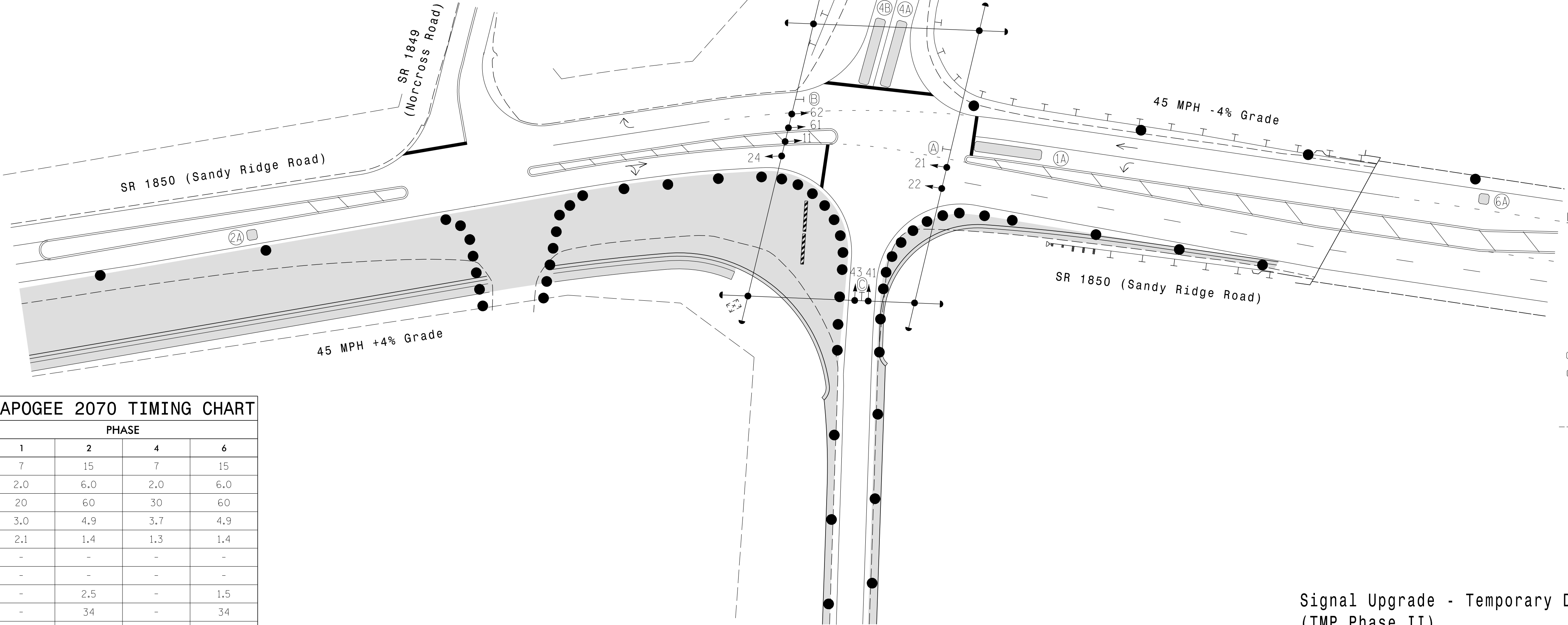
3 Phase
Fully Actuated
(Greensboro Signal System)

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.
- Phase 1 may be lagged.
- Reposition existing signal heads numbered 11, 21, 22, 24, 61 and 62.
- Set all detector units to presence mode.
- This intersection uses video detection. Maintain 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.

PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT



TRAFFICWARE APOGEE 2070 TIMING CHART					
FEATURE	PHASE				
	1	2	4	6	
Min Green *	7	15	7	15	
Gap, Extension *	2.0	6.0	2.0	6.0	
Maximum Green 1 *	20	60	30	60	
Yellow Clear	3.0	4.9	3.7	4.9	
Red Clear	2.1	1.4	1.3	1.4	
Walk *	-	-	-	-	
Pedestrian Clear	-	-	-	-	
Added Initial *	-	2.5	-	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	
Lock Calls	NO	YES	NO	YES	
Dual Entry	-	-	-	-	
Simultaneous Gap	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	N/A
Modified Signal Head	N/A
Sign	Sign
Pedestrian Signal Head With Push Button & Sign	Sign
Signal Pole with Guy	Signal Pole with Guy
Signal Pole with Sidewalk Guy	Signal Pole with Sidewalk Guy
Inductive Loop Detector	Inductive Loop Detector
Non-Intrusive Detection Zone	N/A
Controller & Cabinet	Controller & Cabinet
Junction Box	Junction Box
2-in Underground Conduit	2-in Underground Conduit
Right of Way	Right of Way
Guardrail	Guardrail
Construction Zone	Construction Zone
Construction Zone Drums	Construction Zone Drums
Type III Barrier	Type III Barrier
No Left Turn Sign (R3-2)	No Left Turn Sign (R3-2)
No Right Turn Sign (R3-1)	No Right Turn Sign (R3-1)
Street Name Sign (D3-1)	Street Name Sign (D3-1)

Signal Upgrade - Temporary Design 2
(TMP Phase II)

AtkinsRéal
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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of: 750 N. Greenfield Pkwy, Garner, NC 27529	SR 1850 (Sandy Ridge Road) at I-40 EB Ramps Division 7 Guilford County Greensboro PLAN DATE: January 2025 REVIEWED BY: AM Encarnacion PREPARED BY: JT Stiff REVIEWED BY: PL Alexander REVISIONS INIT. DATE	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JAMES T. STIFF 056276 3/14/2025 SIC. INVENTORY NO. 07-164872
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