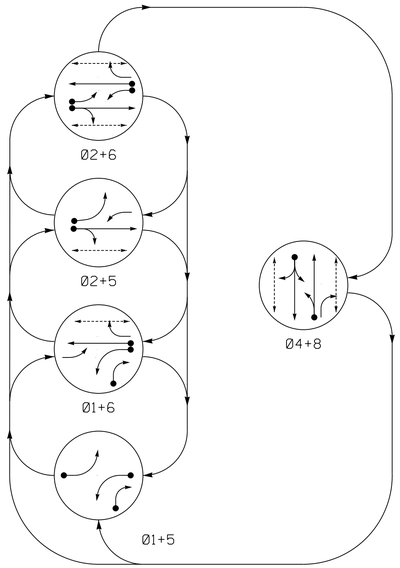
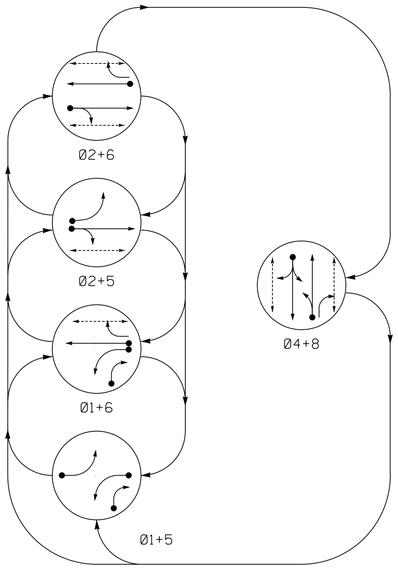
PROJECT REFERENCE NO.	SHEET NO.
P-5707	SIG. 2.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8	FLASH
11	←	←	F Y	F Y	~~R~~	~~R~~
21,22	R	R	G	G	R	R
41,42	R	R	R	R	G	R
51	←	F Y	←	F Y	~~R~~	~~R~~
61,62	R	G	R	G	R	R
63	R	F Y	R	F Y	R	R
81	R	R	R	R	G	R
82	R/←	R/→	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4+8	FLASH
11	←	←	~~R~~	~~R~~	~~R~~	~~R~~
21,22	R	R	G	G	R	R
41,42	R	R	R	R	G	R
51	←	~~R~~	←	~~R~~	~~R~~	~~R~~
61,62	R	G	R	G	R	R
63	R	F Y	R	F Y	R	R
81	R	R	R	R	G	R
82	R/←	R/→	R	R	G	R
P21,P22	DW	DW	W	W	DW	DRK
P41,P42	DW	DW	DW	DW	W	DRK
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

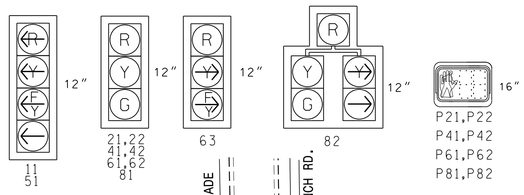
MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP/ ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	ADDED INITIAL EXTEND	ADDED INITIAL CALL	DELAY DURING GREEN	NEW CARD	
1A✱	6X40	0	✱	✱	1	15.0✱✱	-	X	-	X	-	✱
					6#	3.0	-	X	-	X	X	✱
1B	6X40	0	EXISTING	-	1	15.0	-	X	-	X	-	-
2A✱	6X6	300	✱	✱	2	-	-	X	X	X	-	✱
4A	6X40	0	EXISTING	-	4	10.0	-	X	-	X	-	-
5A✱	6X40	0	✱	✱	5	15.0✱✱	-	X	-	X	-	✱
					2#	3.0	-	X	-	X	X	✱
6A✱	6X6	300	✱	✱	6	-	-	X	X	X	-	✱
8A	6X40	0	EXISTING	-	8	3.0	-	X	-	X	-	-

✱- Video Detection Zone
✱✱- Reduce delay to 3 seconds during alternate phasing operation.
- Disable phase call for loop(s) during alternate phasing operation.

SIGNAL FACE I.D.

All Heads L.E.D.



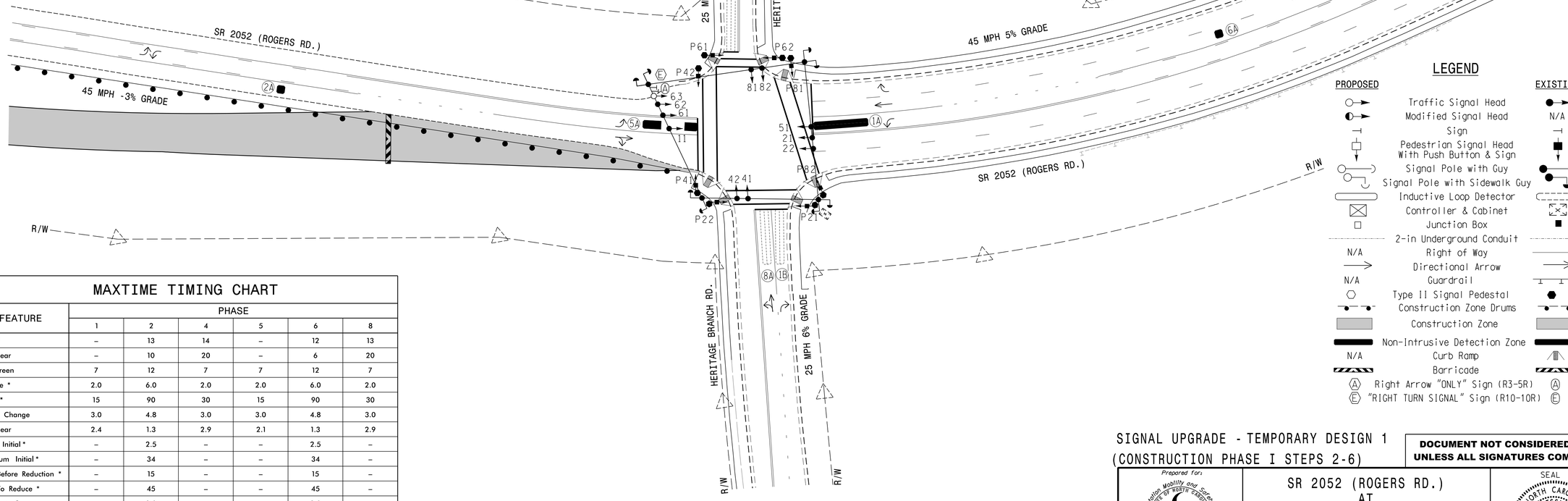
5 PHASE FULLY ACTUATED (ISOLATED)

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 PHASE 5 MAY BE LAGGED.
4. REPOSITION EXISTING SIGNAL HEADS NUMBERED 61 AND 62.
5. INSTALL BACKPLATES FOR ALL SIGNAL HEADS.
6. SET ALL DETECTOR UNITS TO PRESENCE MODE.
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. TO PROVIDE A LEADING PEDESTRIAN INTERVAL ON PHASE 6, PROGRAM FYA HEADS NUMBERED 51 AND 63 TO DELAY FOR 5 SECONDS AFTER THE START OF THE PHASE 6 WALK INTERVAL. SEE ELECTRICAL DETAILS FOR PROGRAMMING.
10. THE DIVISION TRAFFIC ENGINEER WILL DETERMINE THE HOURS OF USE FOR EACH PHASING PLAN.
11. THIS INTERSECTION USES VIDEO DETECTION. INSTALL DETECTORS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO ACHIEVE THE DESIRED DETECTION.

PHASING DIAGRAM DETECTION LEGEND

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



MAXTIME TIMING CHART

FEATURE	PHASE 1	2	4	5	6	8
Walk *	–	13	14	–	12	13
Ped Clear	–	10	20	–	6	20
Min Green	7	12	7	7	12	7
Passage *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	15	90	30	15	90	30
Yellow Change	3.0	4.8	3.0	3.0	4.8	3.0
Red Clear	2.4	1.3	2.9	2.1	1.3	2.9
Added Initial *	–	2.5	–	–	2.5	–
Maximum Initial *	–	34	–	–	34	–
Time Before Reduction *	–	15	–	–	15	–
Time To Reduce *	–	45	–	–	45	–
Minimum Gap	–	3.0	–	–	3.0	–
Advance Walk	–	6	7	–	**	6
Non Lock Detector	X	–	X	X	–	X
Vehicle Recall	–	MIN RECALL	–	–	MIN RECALL	–
Dual Entry	–	–	X	–	–	X

* 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.
** See Note 9

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	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	
N/A	Right of Way	
	Directional Arrow	
N/A	Guardrail	
	Type II Signal Pedestal	
	Construction Zone Drums	
	Construction Zone	
	Non-Intrusive Detection Zone	
N/A	Curb Ramp	
	Barricade	

Ⓐ Right Arrow "ONLY" Sign (R3-5R) Ⓐ
Ⓔ "RIGHT TURN SIGNAL" Sign (R10-10R) Ⓔ

SIGNAL UPGRADE - TEMPORARY DESIGN 1
(CONSTRUCTION PHASE I STEPS 2-6)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Prepared for:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

SCALE 0 40 1"=40'

SR 2052 (ROGERS RD.) AT HERITAGE BRANCH RD.

DIVISION 5 WAKE COUNTY WAKE FOREST

PLAN DATE:	JUNE 2026	REVIEWED BY:	DT SEARS
PREPARED BY:	WP JONES	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 044558 ENGINEER DAVID T. SEARS

DocuSigned by: David T Sears 6/9/2026
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SIGNATURE DATE

SIG. INVENTORY NO. 05-2103TI

6/8/2026
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