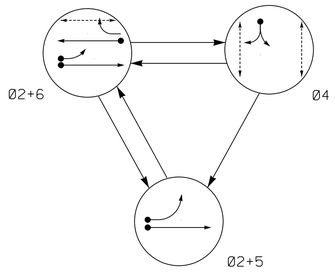
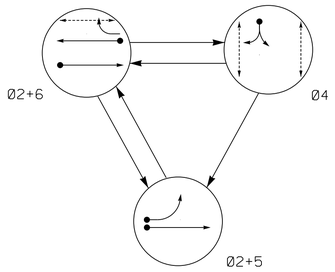
PROJECT REFERENCE NO.	SHEET NO.
P-5707	SIG. 3.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø4	FLASH
21	G	G	R	R
22	↑	↑	R	R
41	R	R	FY	R
42	R	R	FY	R
51	←	FY	~~R~~	~~R~~
61	R	↑	R	R
62	R	G	R	R
63	R	FY→	R	R
P41,P42	DW	DW	W	DRK
P43,P44	DW	DW	W	DRK
P61,P62	DW	W	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø2+5	PHASE Ø2+6	PHASE Ø4	FLASH
21	G	G	R	R
22	↑	↑	R	R
41	R	R	FY	R
42	R	R	FY	R
51	←	~~R~~	~~R~~	~~R~~
61	R	↑	R	R
62	R	G	R	R
63	R	FY→	R	R
P41,P42	DW	DW	W	DRK
P43,P44	DW	DW	W	DRK
P61,P62	DW	W	DW	DRK

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP/ ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
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	-	✳

✳ - Video Detection Zone
✳✳ - Disable delay during alternate phasing operation.
- Disable phase call for loop(s) during alternate phasing operation.

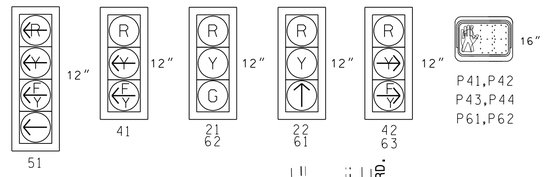
3 PHASE FULLY ACTUATED (ISOLATED)

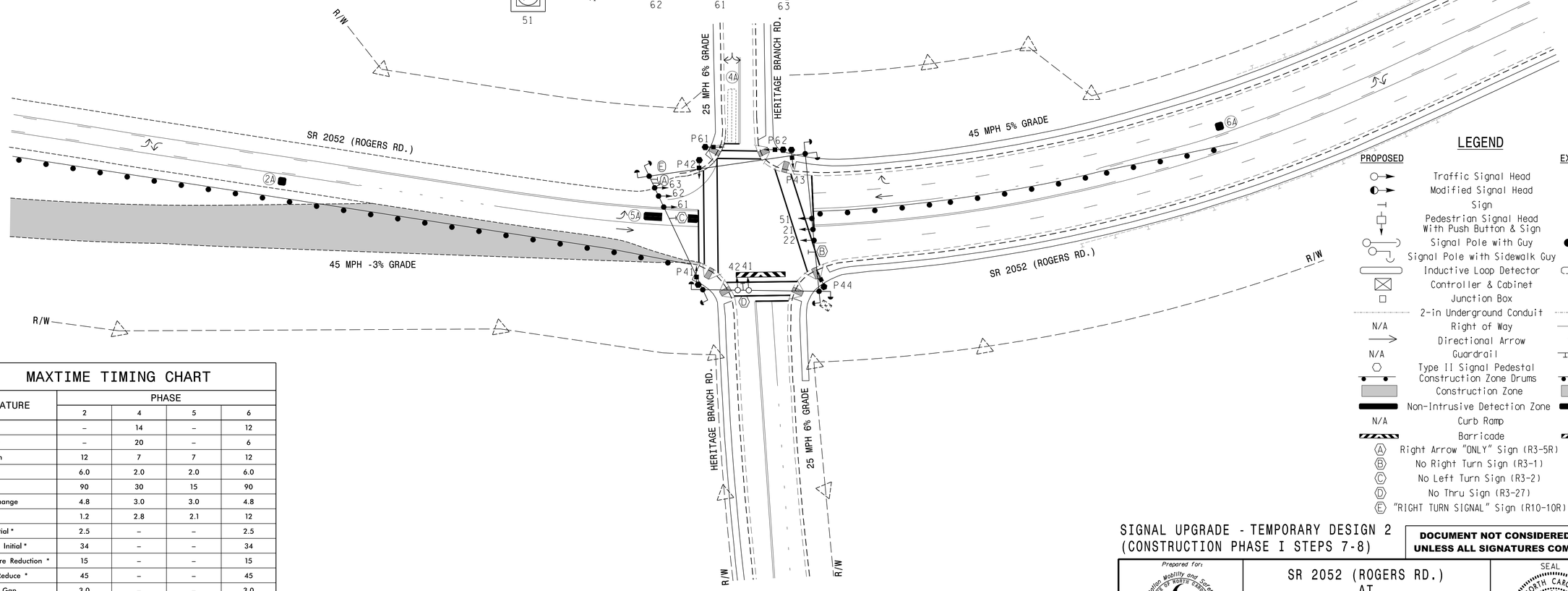
NOTES

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 5 MAY BE LAGGED.
4. REMOVE EXISTING SIGNAL HEADS 11, 81, 82, P21, AND P22.
5. EXISTING SIGNAL HEADS 21, 22, 41, 42, 51, 61, 62, AND 63 HAVE BACKPLATES.
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.

SIGNAL FACE I.D.

All Heads L.E.D.





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)	Ⓐ
Ⓑ	No Right Turn Sign (R3-1)	Ⓑ
Ⓒ	No Left Turn Sign (R3-2)	Ⓒ
Ⓓ	No Thru Sign (R3-27)	Ⓓ
Ⓔ	"RIGHT TURN SIGNAL" Sign (R10-10R)	Ⓔ

MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 5	PHASE 6
Walk *	–	14	–	12
Ped Clear	–	20	–	6
Min Green	12	7	7	12
Passage *	6.0	2.0	2.0	6.0
Max 1 *	90	30	15	90
Yellow Change	4.8	3.0	3.0	4.8
Red Clear	1.2	2.8	2.1	12
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	–	7	–	**
Non Lock Detector	–	X	X	–
Vehicle Recall	MIN RECALL	–	–	MIN RECALL
Dual Entry	–	–	–	–

* 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

SIGNAL UPGRADE - TEMPORARY DESIGN 2
(CONSTRUCTION PHASE I STEPS 7-8)

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. 05-210312

6/8/2026
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