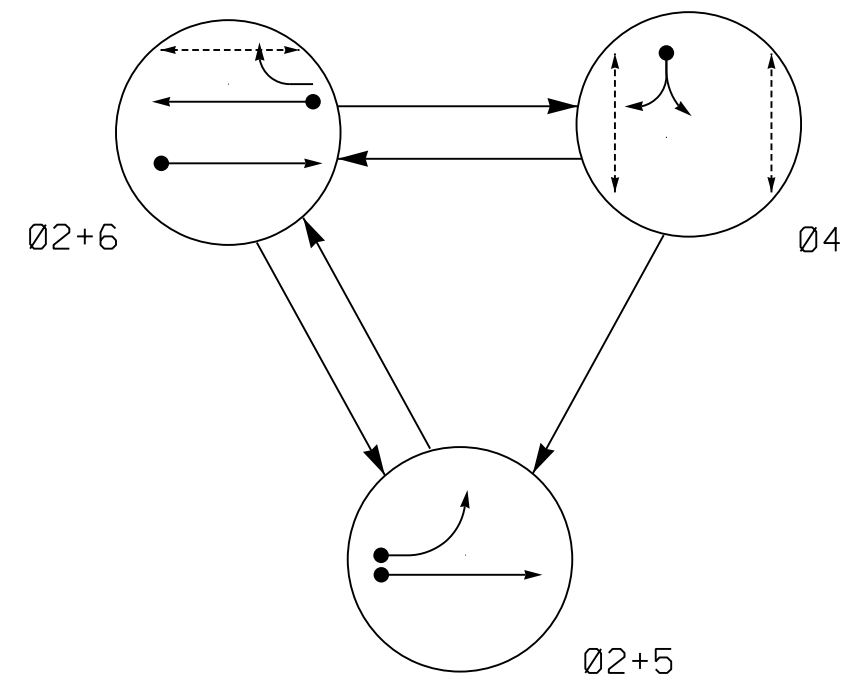
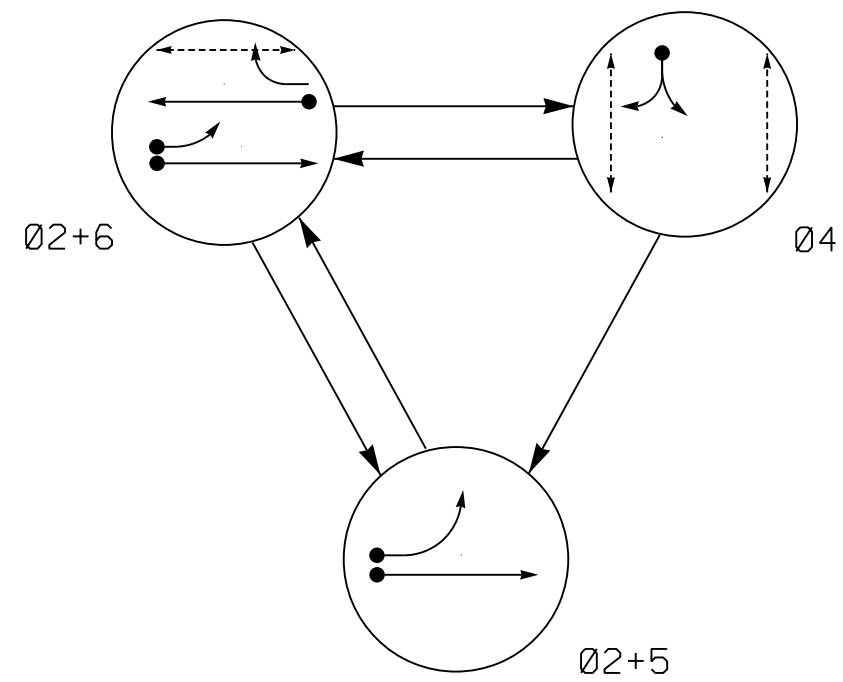




PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION
--

SIGNAL FACE	PHASE			
	0 2 + 5	0 2 + 6	0 4	F L O S H
21	G	G	R	R
22	↑	↑	R	R
41	R	R	$\overline{F}$	R
42	R	R	$\overline{F}$	R
51	←	$\overline{F}$	$\overline{R}$	$\overline{R}$
61	R	↑	R	R
62	R	G	R	R
63	R	$\overline{F}$	R	R
P41,P42, P43,P44	DW	DW	W	DRK
P61,P62	DW	W	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE			
	0 2 + 5	0 2 + 6	0 4	F L S H
21	G	G	R	R
22	↑	↑	R	R
41	R	R	$\overline{F}$	R
42	R	R	$\overline{F}$	R
51	←	$\overline{R}$	$\overline{R}$	$\overline{R}$
61	R	↑	R	R
62	R	G	R	R
63	R	$\overline{F}$	R	R
P41,P42, 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	-	*
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.

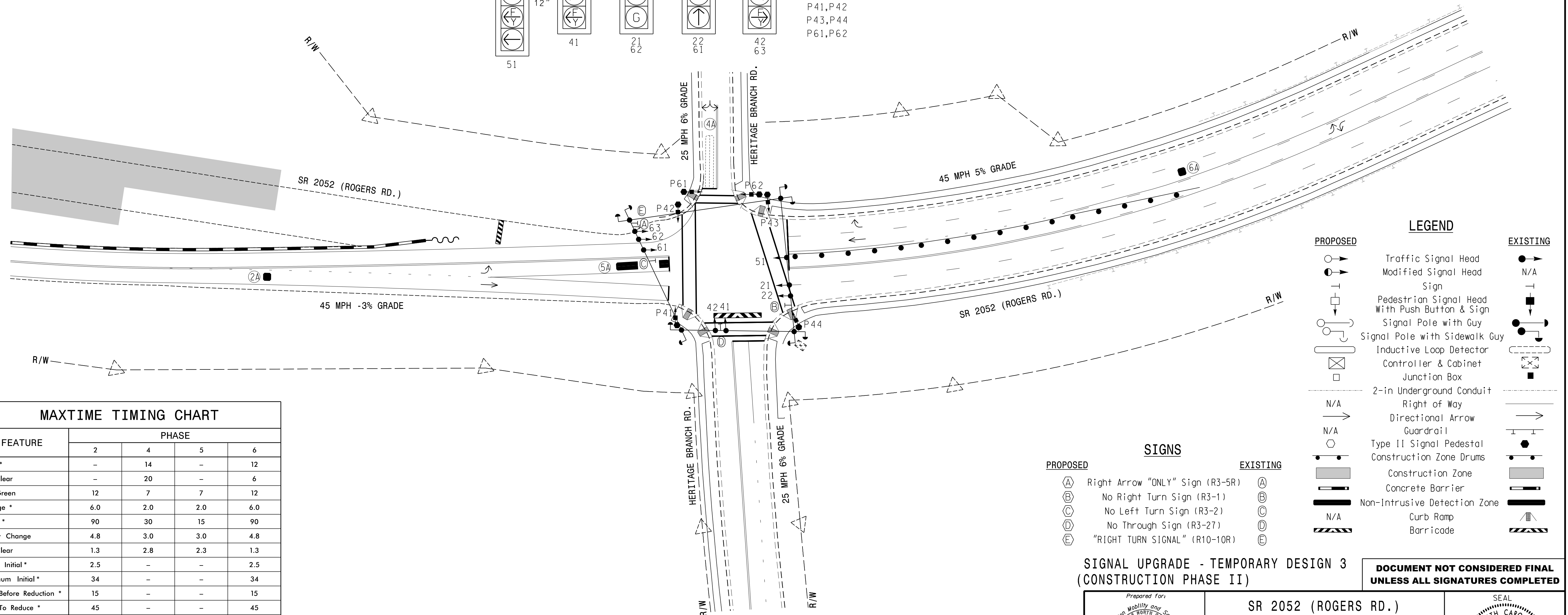
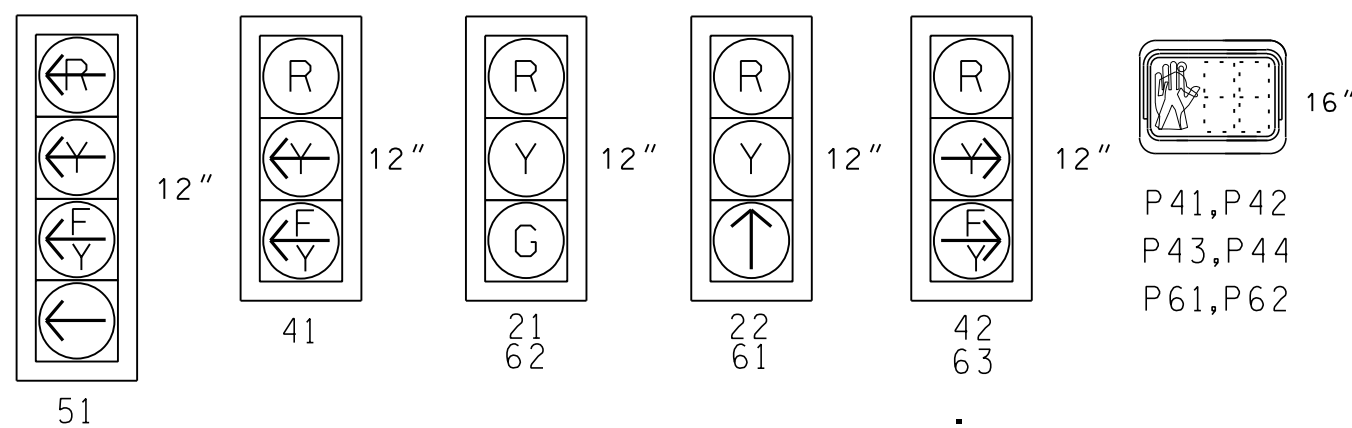
3 PHASE
FULLY ACTUATED
(ISOLATED)

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. REPOSITION EXISTING SIGNAL HEADS NUMBERED 21, 22, AND 51.
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 FOR 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.



MAXTIME TIMING CHART

FEATURE	PHASE			
	2	4	5	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	1.3	2.8	2.3	1.3
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.

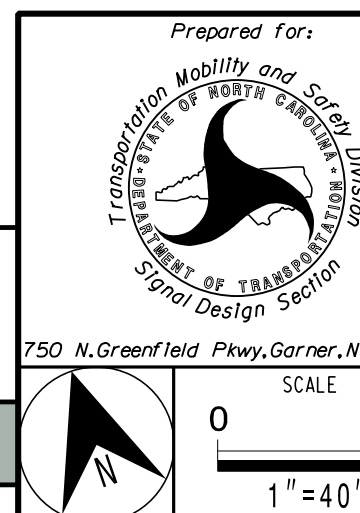
** See Note 9

SIGNS

PROPOSED		EXISTING
(A)	Right Arrow "ONLY" Sign (R3-5R)	(A)
(B)	No Right Turn Sign (R3-1)	(B)
(C)	No Left Turn Sign (R3-2)	(C)
(D)	No Through Sign (R3-27)	(D)
(E)	"RIGHT TURN SIGNAL" (R10-10R)	(E)

SIGNAL UPGRADE - TEMPORARY DESIGN 3
(CONSTRUCTION PHASE II)

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



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

DIVISION 5 WAKE COUNTY WAKE FOREST

PLAN DATE:	JUNE 2026	REVIEWED BY:	DT SEARS
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REVISIONS	INIT.	DATE
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SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
044558
ENGINEER
DAVID T. SEARS

DocuSigned by:
David T. Sears

6/9/2026

069193F2B857A1E
SIGNATURE

DATE

SIG. INVENTORY NO. 05-210313