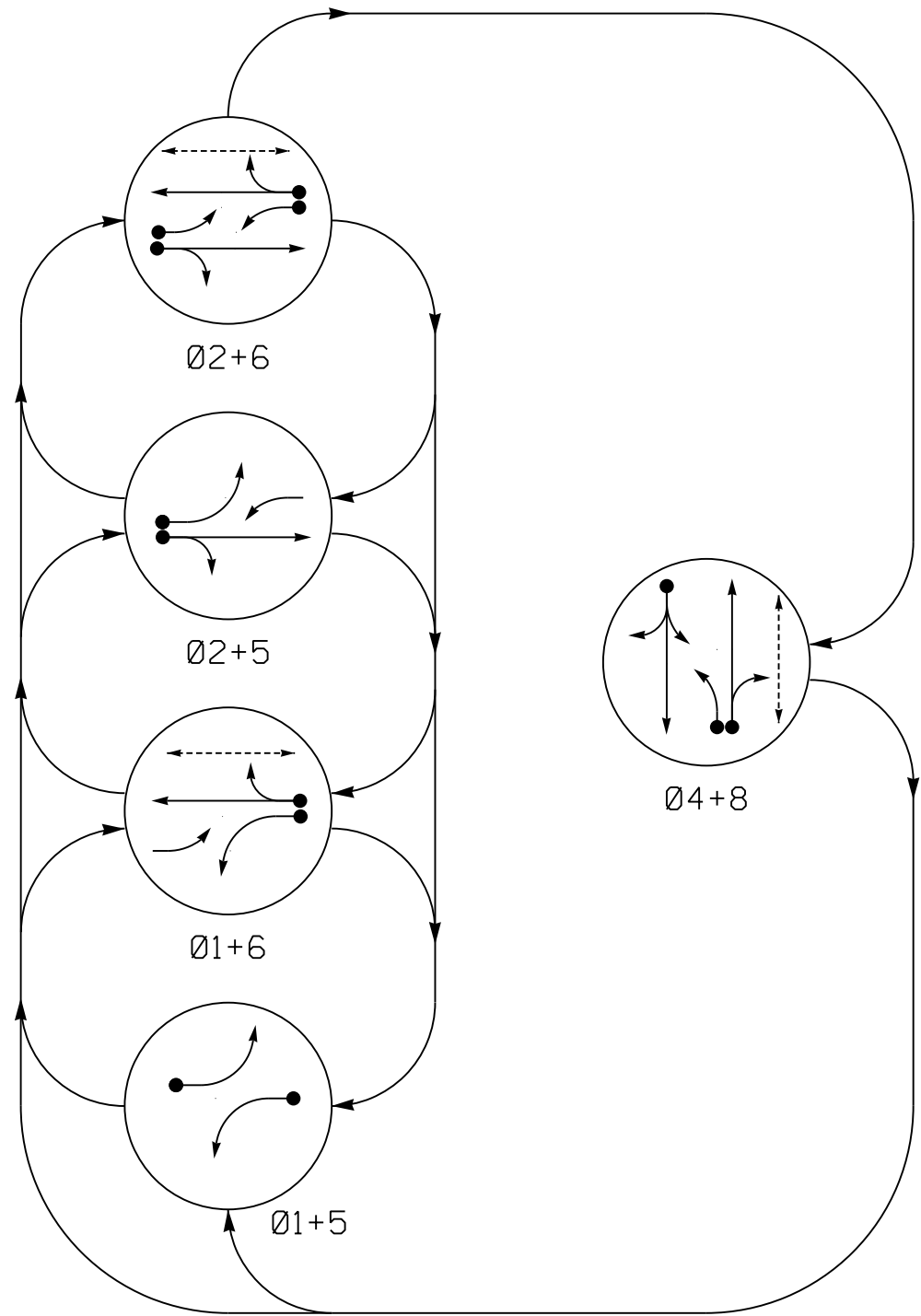
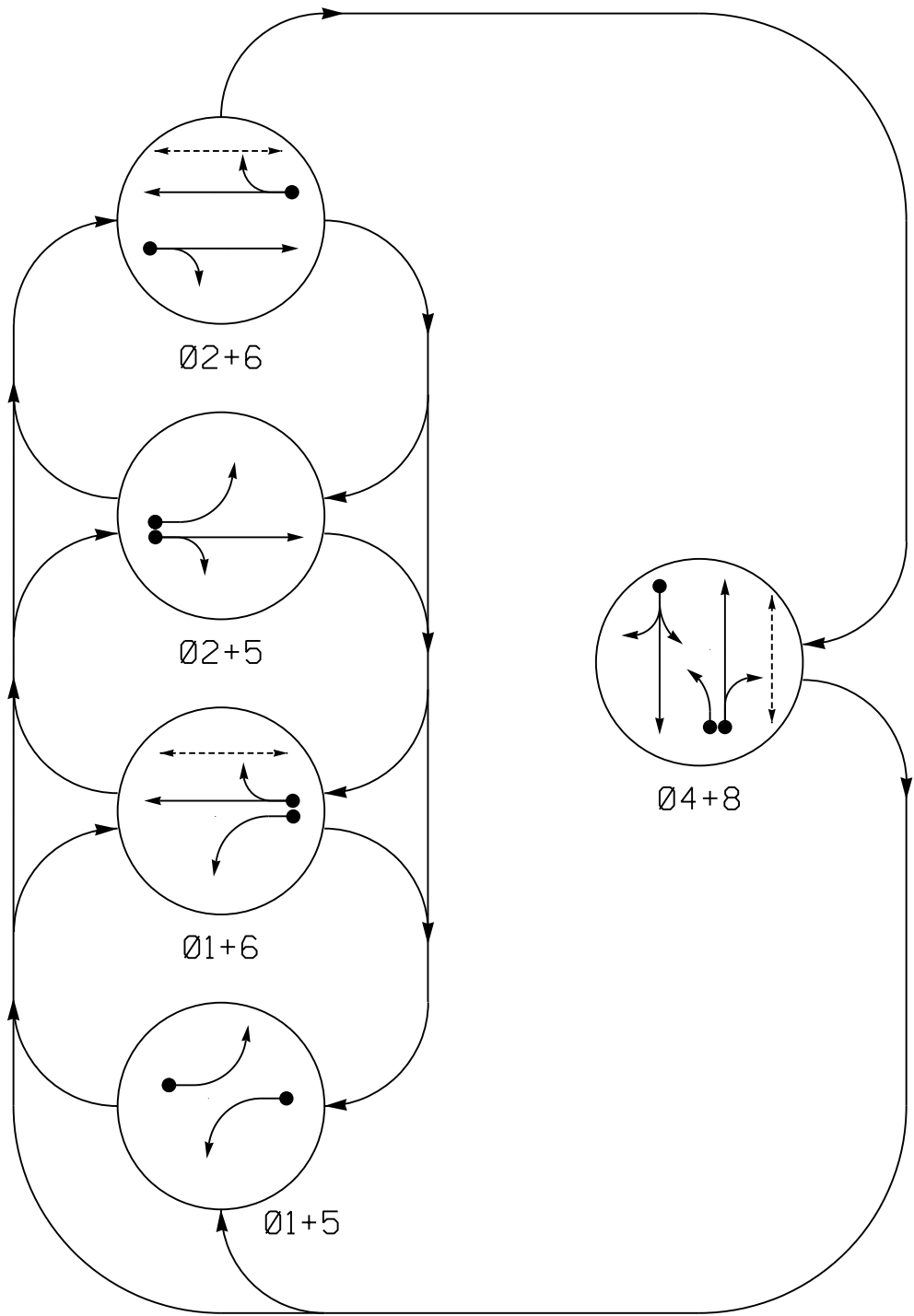


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L A S H
11	←	←	←	←	←	←
21,22	R	R	G	G	R	R
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	R
81	←	←	←	←	←	←
82,83,84	R	R	R	R	G	R
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

SIGNAL FACE	PHASE					
	Ø 1 + 5	Ø 1 + 6	Ø 2 + 5	Ø 2 + 6	Ø 4 + 8	F L A S H
11	←	←	←	←	←	←
21,22	R	R	G	G	R	R
41,42	R	R	R	R	G	R
51	←	←	←	←	←	←
61,62	R	G	R	G	R	R
81	←	←	←	←	←	←
82,83,84	R	R	R	R	G	R
P61,P62	DW	W	DW	W	DW	DRK
P81,P82	DW	DW	DW	DW	W	DRK

MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
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
1A*	6X40	0	*	*	1	15.0**	-	X	-	X	*
2A*	6X6	300	*	*	2	-	-	X	X	X	*
4A*	6X40	0	*	*	4	10.0	-	X	-	X	*
5A*	6X40	0	*	*	5	15.0**	-	X	-	X	*
6A*	6X6	300	*	*	6	-	-	X	X	X	*
8A*	6X40	0	*	*	8	3.0	-	X	-	X	*
8B*	6X40	0	*	*	8	10.0	-	X	-	X	*

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

5 PHASE FULLY ACTUATED (ISOLATED)

NOTES

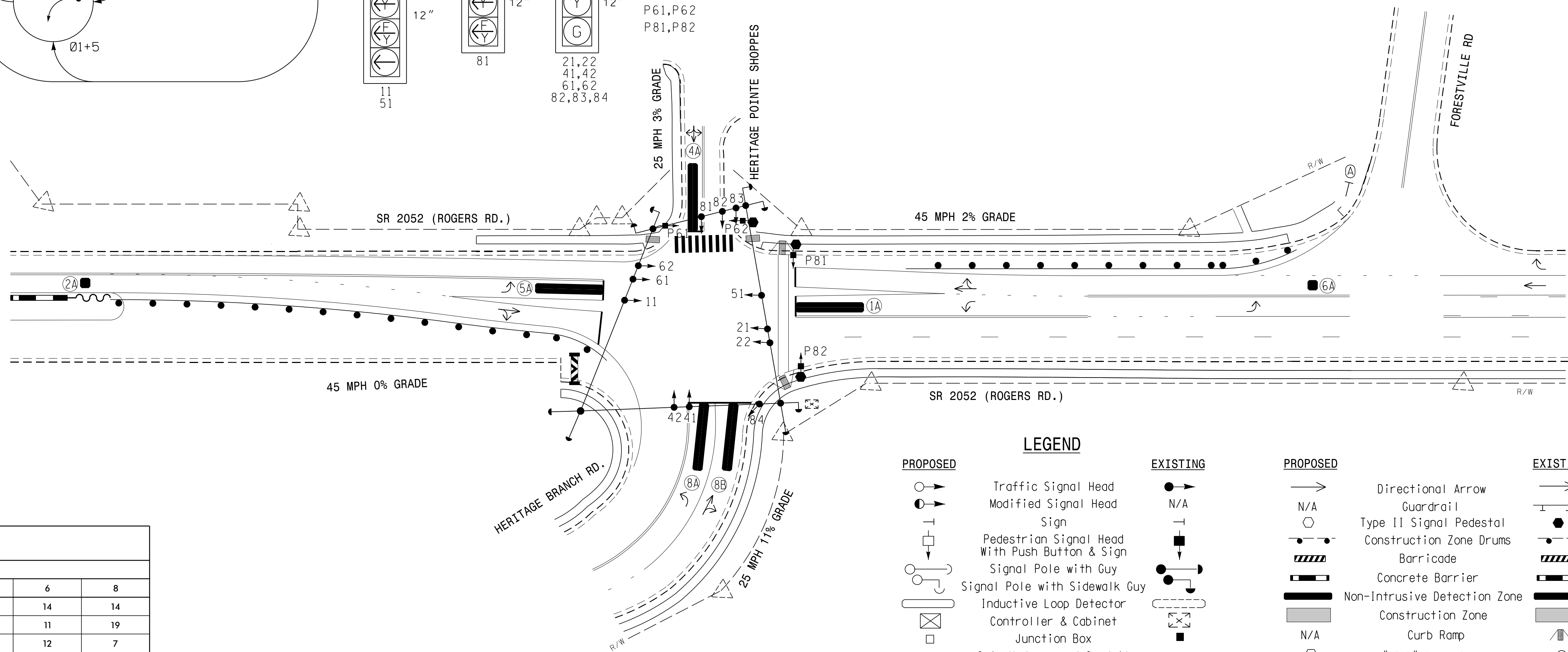
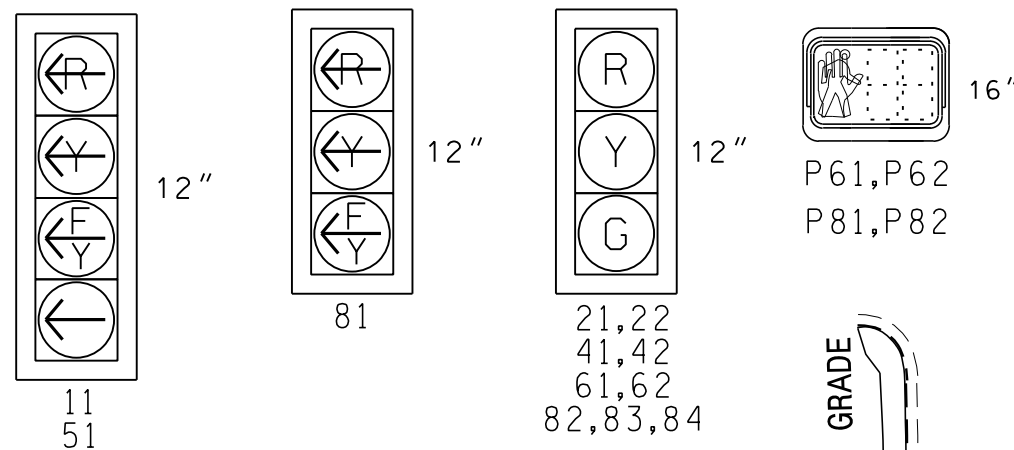
1. REFER TO "ROADWAY STANDARD DRAWINGS NCDOT" DATED JANUARY 2024 AND "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2024.
2. DO NOT PROGRAM SIGNAL FOR LATE NIGHT FLASHING OPERATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. PHASE 1 AND/OR PHASE 5 MAY BE LAGGED.
4. REPOSITION EXISTING SIGNAL HEADS NUMBERED 11, 21, 22, 51, 61, AND 62.
5. EXISTING SIGNAL HEADS 11, 21, 22, 41, 42, 51, 61, 62, 81, 82, 83, AND 84 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. THE DIVISION TRAFFIC ENGINEER WILL DETERMINE THE HOURS OF USE FOR EACH PHASING PLAN.
10. 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)
- ← UN SIGNALIZED MOVEMENT
- ← PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

All Heads L.E.D.



LEGEND

- | PROPOSED | EXISTING | PROPOSED | EXISTING |
|----------|----------|----------|------------------------------|
| ○ | ● | → | → |
| ○ | N/A | N/A | Guardrail |
| ○ | ○ | ○ | Type II Signal Pedestal |
| ○ | ○ | ○ | Construction Zone Drums |
| ○ | ○ | ○ | Barricade |
| ○ | ○ | ○ | Concrete Barrier |
| ○ | ○ | ○ | Non-Intrusive Detection Zone |
| ○ | ○ | ○ | Construction Zone |
| ○ | ○ | ○ | Curb Ramp |
| ○ | ○ | ○ | "STOP" Sign (R1-1) |
| ○ | ○ | ○ | ○ |

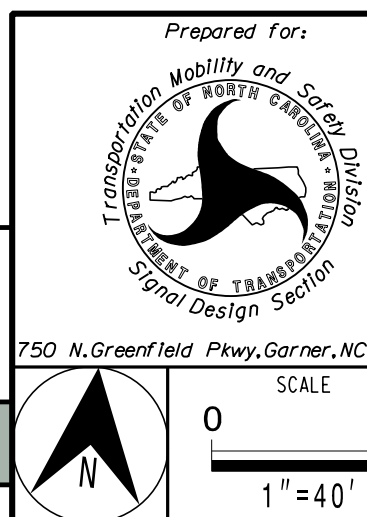
MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	-	-	-	14	14
Ped Clear	-	-	-	-	11	19
Min Green	7	12	7	7	12	7
Passage *	2.0	6.0	2.0	2.0	6.0	2.0
Max I *	15	90	25	15	90	25
Yellow Change	3.0	4.5	3.1	3.0	4.5	3.1
Red Clear	2.4	1.7	2.6	2.4	1.7	2.6
Added Initial *	-	2.5	-	-	2.5	-
Maximum Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Advance Walk	-	-	-	-	7	7
Non Lock Detector	X	-	X	X	-	X
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X

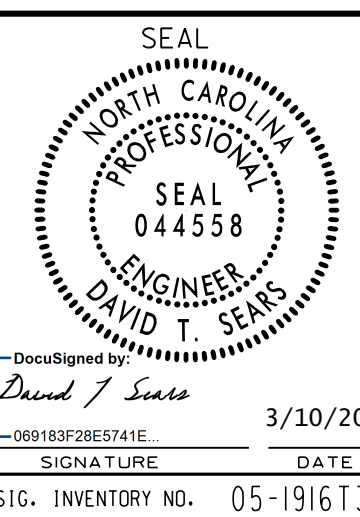
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

SIGNAL UPGRADE - TEMPORARY DESIGN 3 (CONSTRUCTION PHASE IV STEP 2 THRU STEP 3)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SR 2052 (ROGERS RD.) AT HERITAGE BRANCH RD. AND HERITAGE POINTE SHOPPES	
DIVISION 5 WAKE COUNTY	WAKE FOREST
PLAN DATE: MARCH 2025	REVIEWED BY: DTSEARS
PREPARED BY: WPJONES	REVIEWED BY:
REVISIONS	INIT. DATE



SIGNATURE DATE
SIC. INVENTORY NO. 05-1916T3