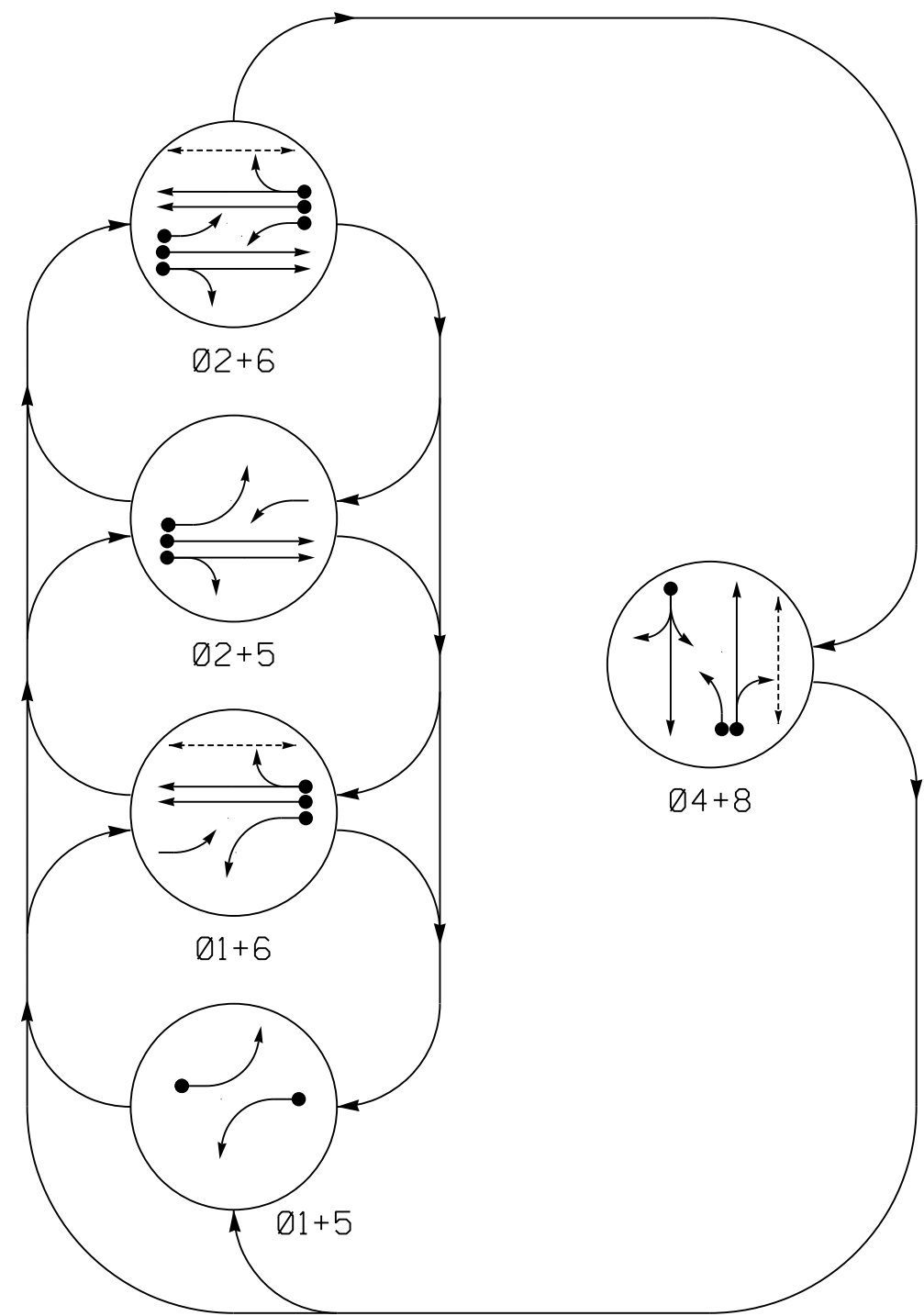
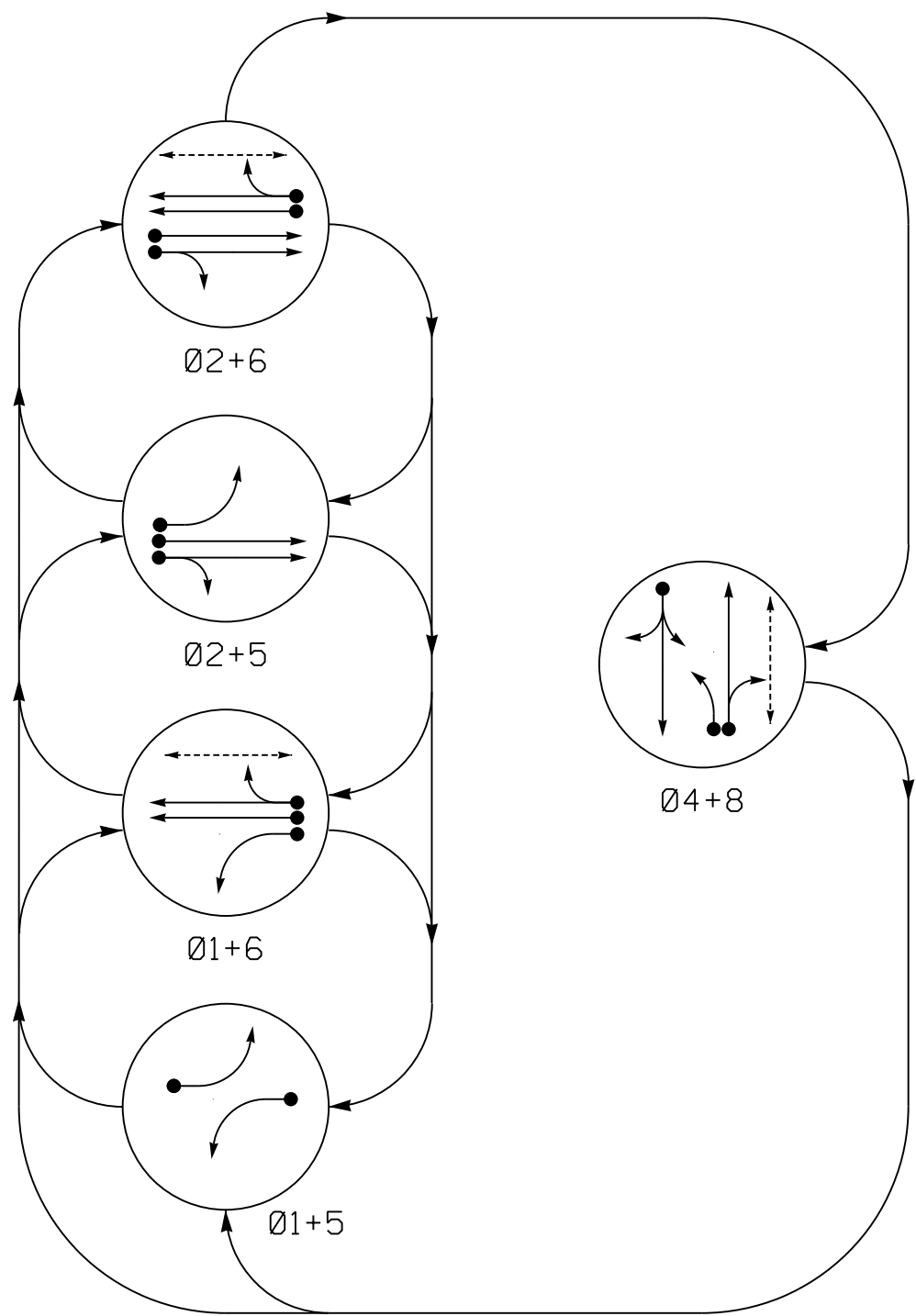


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	0 1 + 5	0 1 + 6	0 2 + 5	0 2 + 6	0 4 + 8	F 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

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE					
	0 1 + 5	0 1 + 6	0 2 + 5	0 2 + 6	0 4 + 8	F 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	-	*
					6#	3.0	-	X	-	X	X	*
2A *	6X6	300	*	*	2	-	-	X	X	X	-	*
2B *	6X6	300	*	*	2	-	-	X	X	X	-	*
4A *	6X40	0	*	*	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	-	*
6B *	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
(ISLOLATED)

NOTES

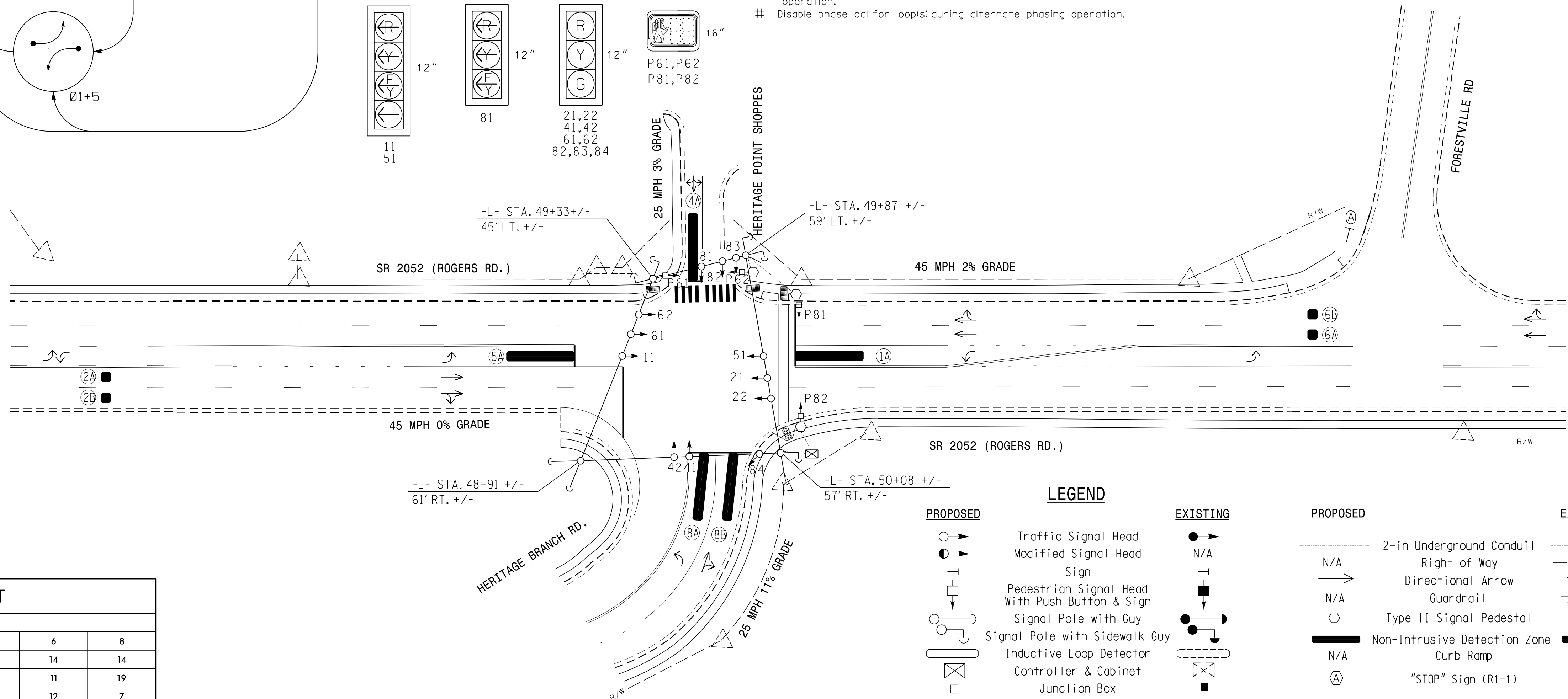
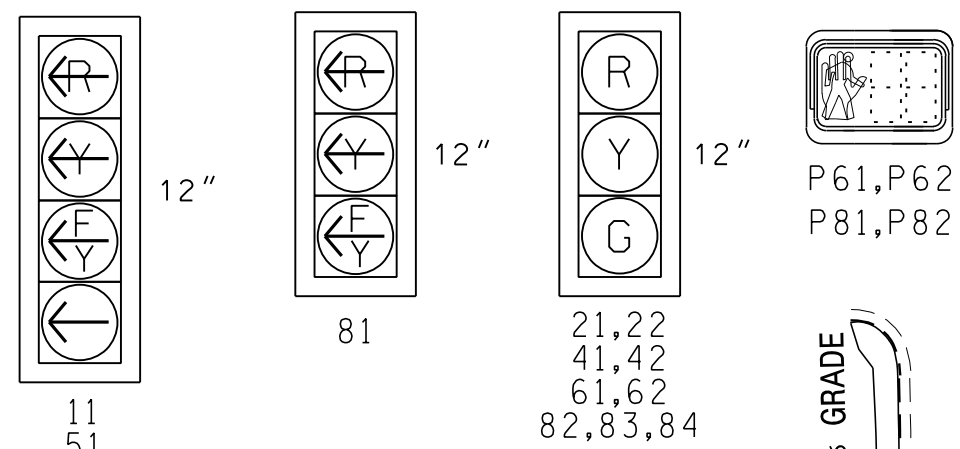
1. REFER TO "ROADWAY STANDARD DRAWINGS NCDOT" DATED JANUARY 2024 AND "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2024.
2. DO NOT PROGRAM SIGNAL FOR LATE NIGHT FLASHING OPERATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. PHASE 1 AND/OR PHASE 5 MAY BE LAGGED.
4. INSTALL BACKPLATES FOR ALL SIGNAL HEADS.
5. LOCATE NEW CABINET SO AS NOT TO OBSTRUCT SIGHT DISTANCE OF VEHICLES TURNING RIGHT ON RED.
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) |
|  | UNSIGNALIZED MOVEMENT |
|  | PEDESTRIAN MOVEMENT |

SIGNAL FACE I.D.

All Heads L.E.D.



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 1 *	15	90	25	15	90	25
Yellow Change	3.0	4.5	3.1	3.0	4.5	3.1
Red Clear	2.6	1.5	2.5	2.9	1.5	2.5
Added Initial *	–	1.5	–	–	1.5	–
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

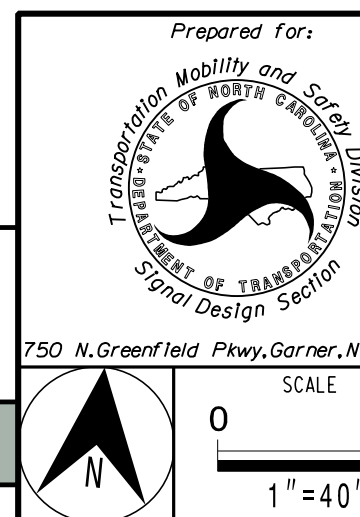
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

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 |  | |
|  | Right of Way |  | |
|  | Directional Arrow |  | |
|  | Guardrail |  | |
|  | Type II Signal Pedestal |  | |
|  | Non-Intrusive Detection Zone |  | |
|  | Curb Ramp |  | |
|  | “STOP” Sign (R1-1) |  | |

NEW INSTALLATION - TEMPORARY DESIGN 1
(CONSTRUCTION PHASE I STEP 4 THRU PHASE II)

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

[illegible]