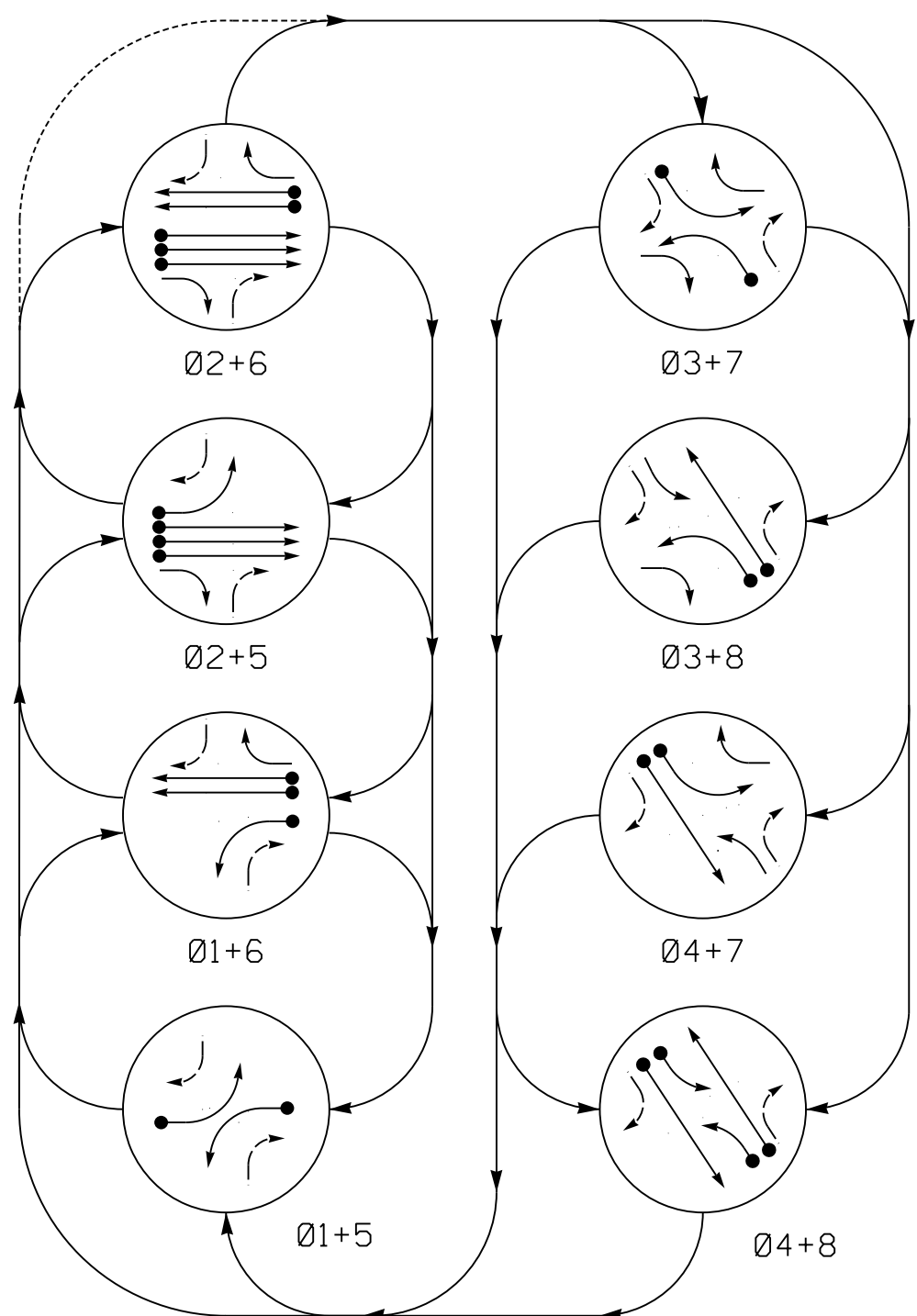
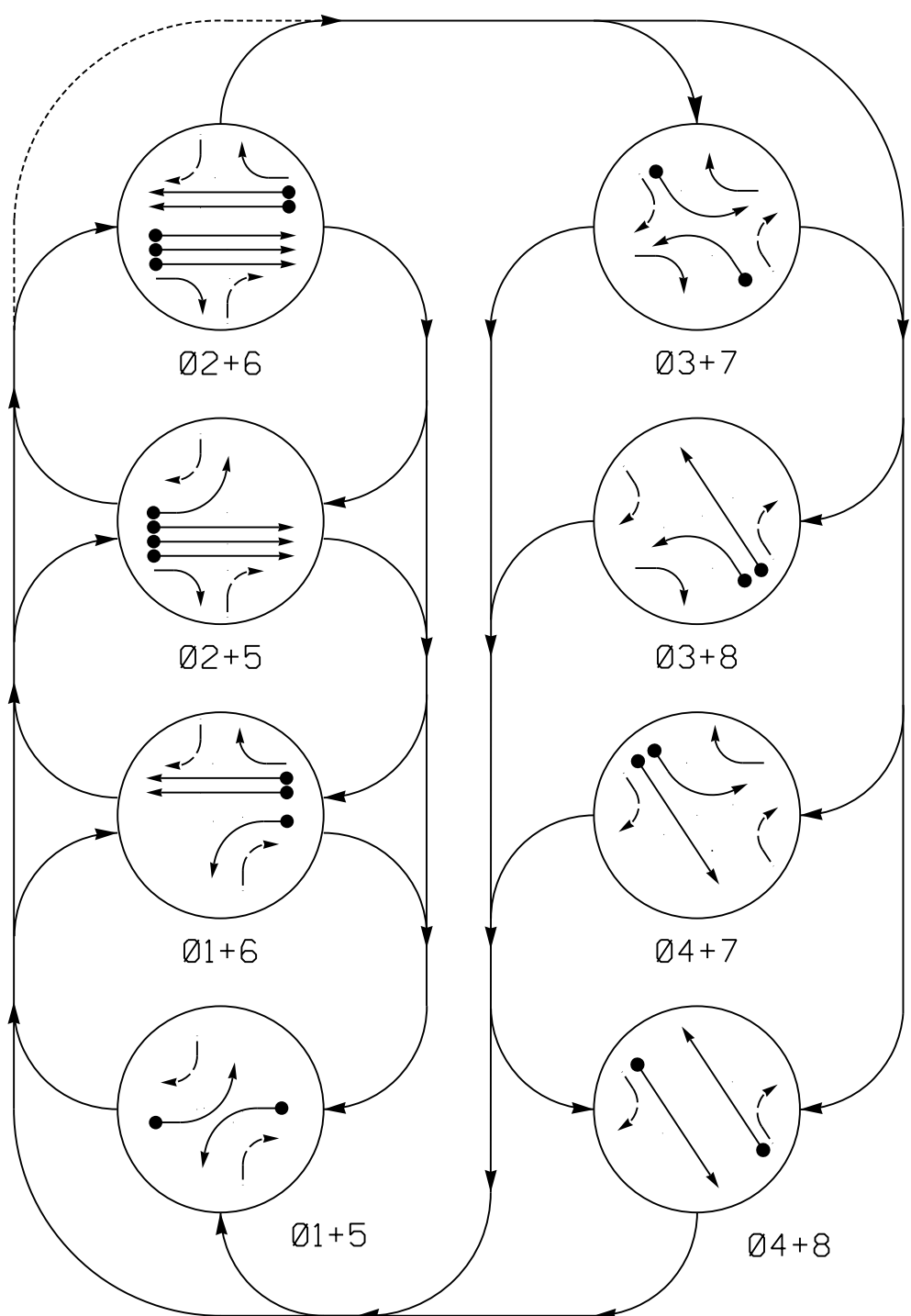


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

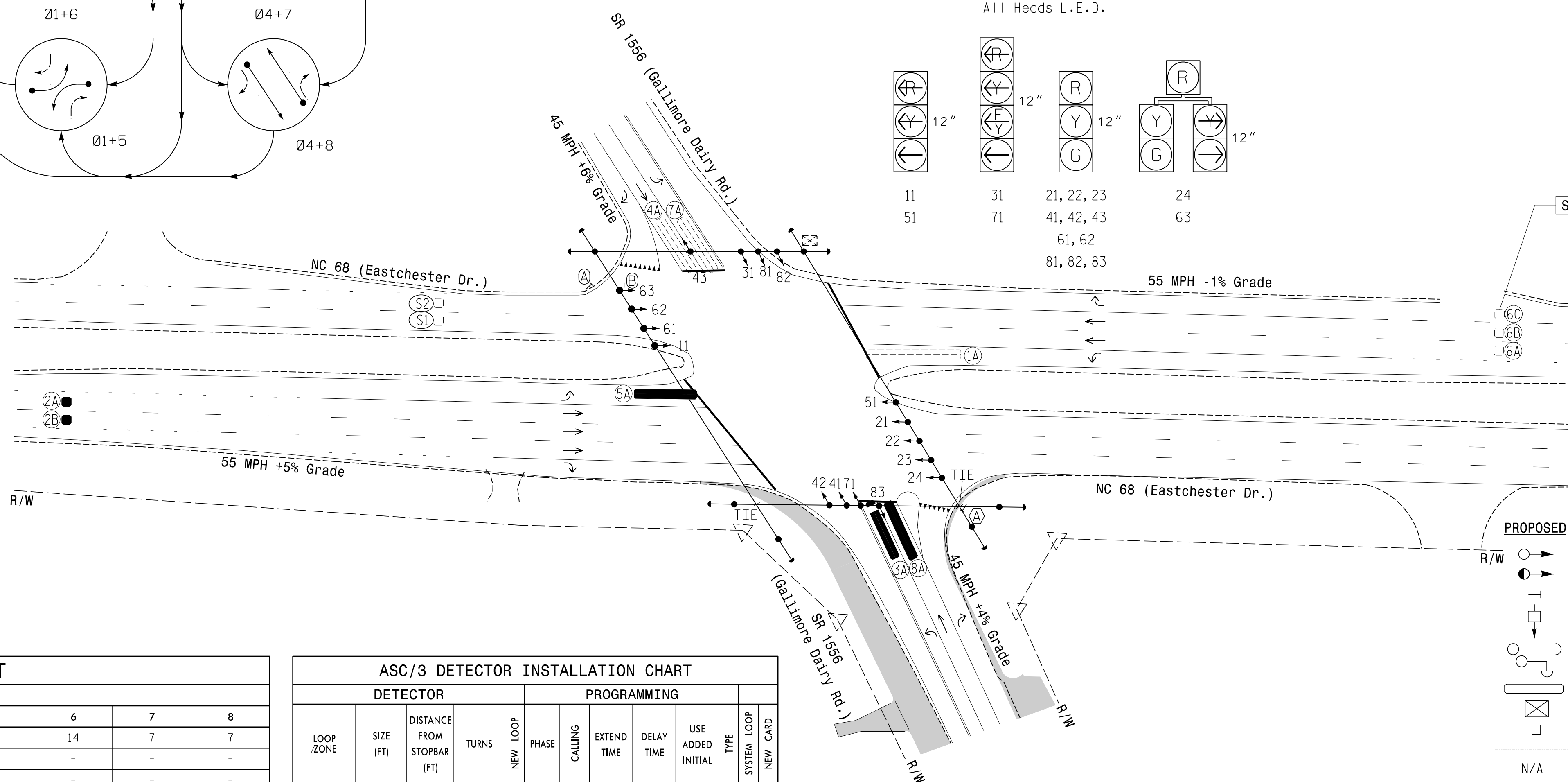
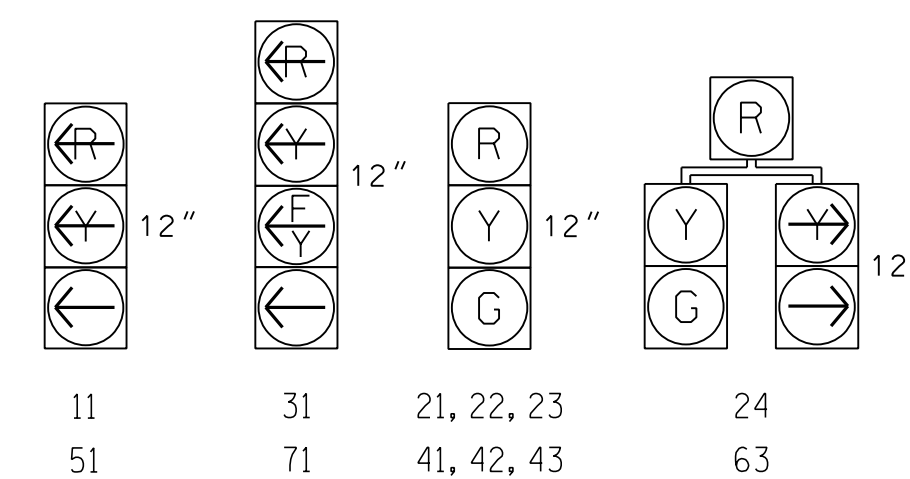
SIGNAL FACE	PHASE								FLASH
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	
11	←	←	→	→	←	←	→	→	→
21,22,23	R	R	G	G	R	R	R	R	R
24	R	R	G	G	R	R	R	R	R
31	←	←	→	→	←	←	→	→	→
41,42,43	R	R	R	R	R	R	G	G	R
51	←	←	→	→	←	←	→	→	→
61,62	R	G	R	G	R	R	R	R	R
63	R	G	R	G	R	R	R	R	R
71	←	←	→	→	←	←	→	→	→
81,82,83	R	R	R	R	R	G	R	G	R

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE								FLASH
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8	
11	←	←	→	→	←	←	→	→	→
21,22,23	R	R	G	G	R	R	R	R	R
24	R	R	G	G	R	R	R	R	R
31	←	←	→	→	←	←	→	→	→
41,42,43	R	R	R	R	R	R	G	G	R
51	←	←	→	→	←	←	→	→	→
61,62	R	G	R	G	R	R	R	R	R
63	R	G	R	G	R	R	R	R	R
71	←	←	→	→	←	←	→	→	→
81,82,83	R	R	R	R	R	G	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



8 Phase Fully Actuated (High Point Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specification for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Abandon existing loop 6C.
- Set all detector units to presence mode.
- The City Traffic Engineer will determine the hours of use for each phasing plan.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

- | | |
|--|-----------------------------------|
| PROPOSED | EXISTING |
| ○ Traffic Signal Head | ● N/A |
| ○ Modified Signal Head | ○ N/A |
| ○ Sign | ○ N/A |
| ○ Pedestrian Signal Head With Push Button & Sign | ○ N/A |
| ○ Signal Pole with Guy | ○ N/A |
| ○ Signal Pole with Sidewalk Guy | ○ N/A |
| ○ Inductive Loop Detector | ○ N/A |
| ○ Controller & Cabinet | ○ N/A |
| ○ Junction Box | ○ N/A |
| ○ 2-in Underground Conduit | ○ N/A |
| → N/A | → Right of Way |
| → Directional Arrow | → Non-Intrusive Detection Zone |
| ○ "YIELD" Sign (R1-2) | ○ "YIELD" Sign (R1-2) |
| ○ Right Arrow "ONLY" Sign (R3-5R) | ○ Right Arrow "ONLY" Sign (R3-5R) |
| ■ Construction Zone | ■ Construction Zone |

ASC/3 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	14	7	7	7	14	7	7
Delayed Green *	-	-	-	-	-	-	-	-
Walk *	-	-	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-	-	-
Veh. Extension *	1.0	6.0	3.0	3.0	2.0	6.0	3.0	3.0
Max 1 *	15	120	15	25	15	120	15	25
Yellow	3.0	5.3	3.0	4.2	3.0	5.3	3.0	4.2
Red Clear	3.1	1.2	4.0	2.8	2.9	1.2	3.9	2.8
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-	-	-
Seconds / Actuation *	-	1.5	-	-	-	1.5	-	-
Max Initial *	-	46	-	-	-	45	-	-
Time Before Reduction *	-	15	-	-	-	15	-	-
Time To Reduce *	-	30	-	-	-	30	-	-
Minimum Gap	-	3.4	-	-	-	3.4	-	-
Locking Detector	-	X	-	-	-	X	-	-
Recall Position	-	SOFT RECALL	-	-	-	SOFT RECALL	-	-
Dual Entry	-	-	-	X	-	-	-	X
Simultaneous Gap	X	X	X	X	X	X	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.

ASC/3 DETECTOR INSTALLATION CHART

LOOP ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X60	0	EXIST	-	1	Yes	-	-	-	N	-	-
2A*	6X6	420	*	*	2	Yes	-	-	X	N	-	*
2B*	6X6	420	*	*	2	Yes	-	-	X	N	-	*
3A*	6X40	0	*	*	3	Yes	-	15.0**	-	N	-	*
					8#	Yes	-	3.0	-	N	-	*
4A	6X40	+2	EXIST	-	4	Yes	-	-	-	N	-	-
5A*	6X40	0	*	*	5	Yes	-	-	-	N	-	*
6A	6X6	405	EXIST	-	6	Yes	-	-	X	N	-	-
6B	6X6	405	EXIST	-	6	Yes	-	-	X	N	-	-
7A	6X40	0	EXIST	-	7	Yes	-	15.0**	-	N	-	-
					4#	Yes	-	3.0	-	N	-	-
8A*	6X40	0	*	*	8	Yes	-	-	-	N	-	*
S1	6X6	+265	EXIST	-	0	No	-	-	-	N	X	-
S2	6X6	+265	EXIST	-	0	No	-	-	-	N	X	-

* VIDEO DETECTION
 ** REDUCE DELAY TO 3 SECONDS DURING ALTERNATE PHASING OPERATION.
 # DISABLE PHASE CALL FOR LOOP(S) DURING ALTERNATE PHASING OPERATION.

Signal Upgrade-Temporary Design 1 (TMP Phase I-II)

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Prepared for the Offices of:
 Transportation Mobility and Safety Solutions
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 SIGNAL DESIGN SECTION

NC 68 (Eastchester Dr.)
 at
 SR 1556 (Gallimore Dairy Rd.)
 Division 7 Guilford County High Point
 PLAN DATE: August 2024 REVIEWED BY: WP Erickson-Jones
 PREPARED BY: A.C. Norman REVIEWED BY:
 REVISIONS: INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 056142
 PORTER JONES
 8/22/2024
 DATE
 SIG. INVENTORY NO. 07-143811

8/22/2024
 R:\Projects\c4s1\gnal\shu0015a...S10_07-143811.dgn
 wpjones