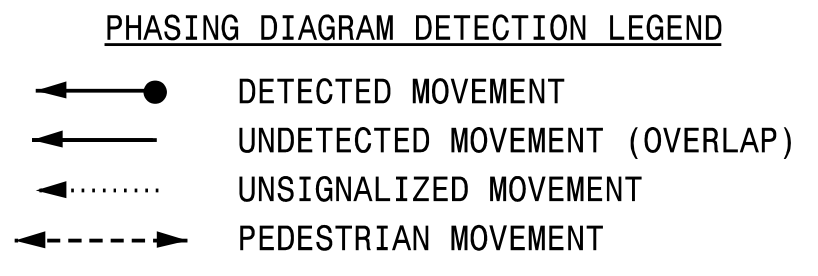
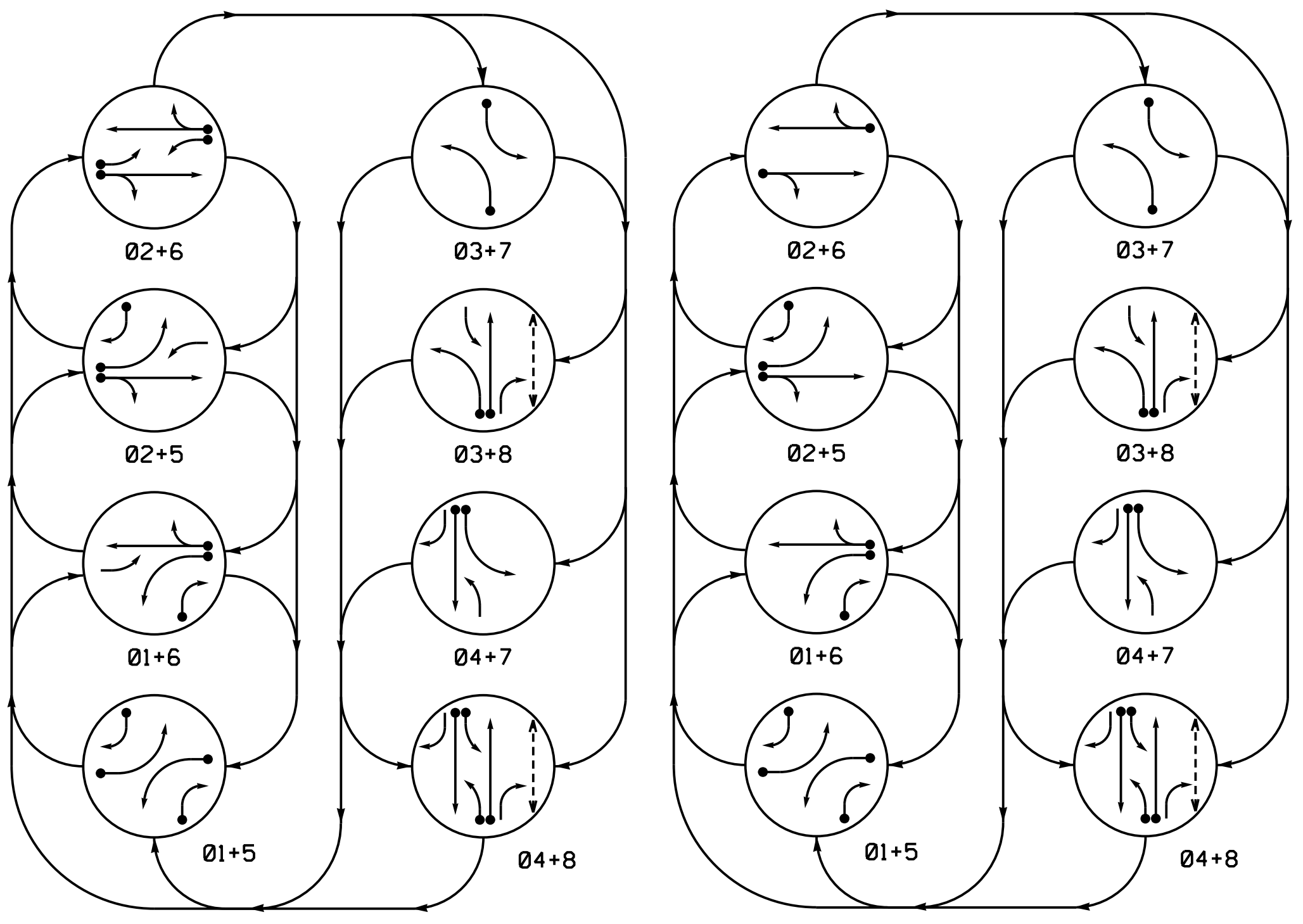


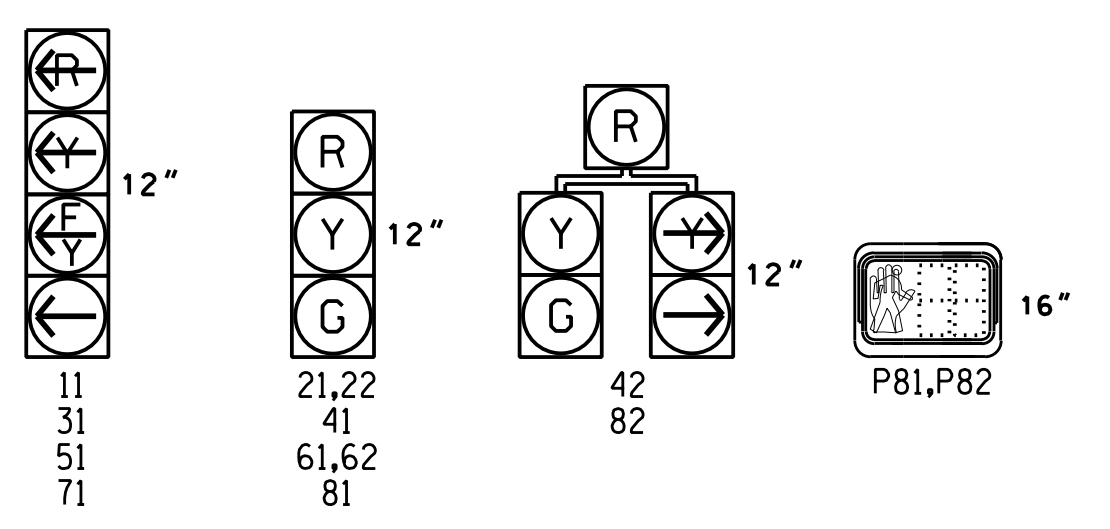
DEFAULT PHASING DIAGRAM

ALTERNATE PHASING DIAGRAM



SIGNAL FACE I.D.

All Heads L.E.D.



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	—	—	—	—	—	—	—	—
21,22	R	R	G	G	R	R	R	Y
31	R	R	R	R	—	—	—	—
41	R	R	R	R	R	R	G	R
42	R	R	R	R	R	R	G	R
51	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	R	Y
71	R	R	R	R	—	—	—	—
81	R	R	R	R	R	R	G	R
82	R	R	R	R	R	R	G	R
P81,P82	DW	DW	DW	DW	W	W	W	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE							
	01+5	01+6	02+5	02+6	03+7	03+8	04+7	04+8
11	—	—	—	—	—	—	—	—
21,22	R	R	G	G	R	R	R	Y
31	R	R	R	R	—	—	—	—
41	R	R	R	R	R	R	G	R
42	R	R	R	R	R	R	G	R
51	—	—	—	—	—	—	—	—
61,62	R	G	R	G	R	R	R	Y
71	R	R	R	R	—	—	—	—
81	R	R	R	R	R	R	G	R
82	R	R	R	R	R	R	G	R
P81,P82	DW	DW	DW	DW	W	W	W	DRK

MAXTIME DETECTOR INSTALLATION CHART

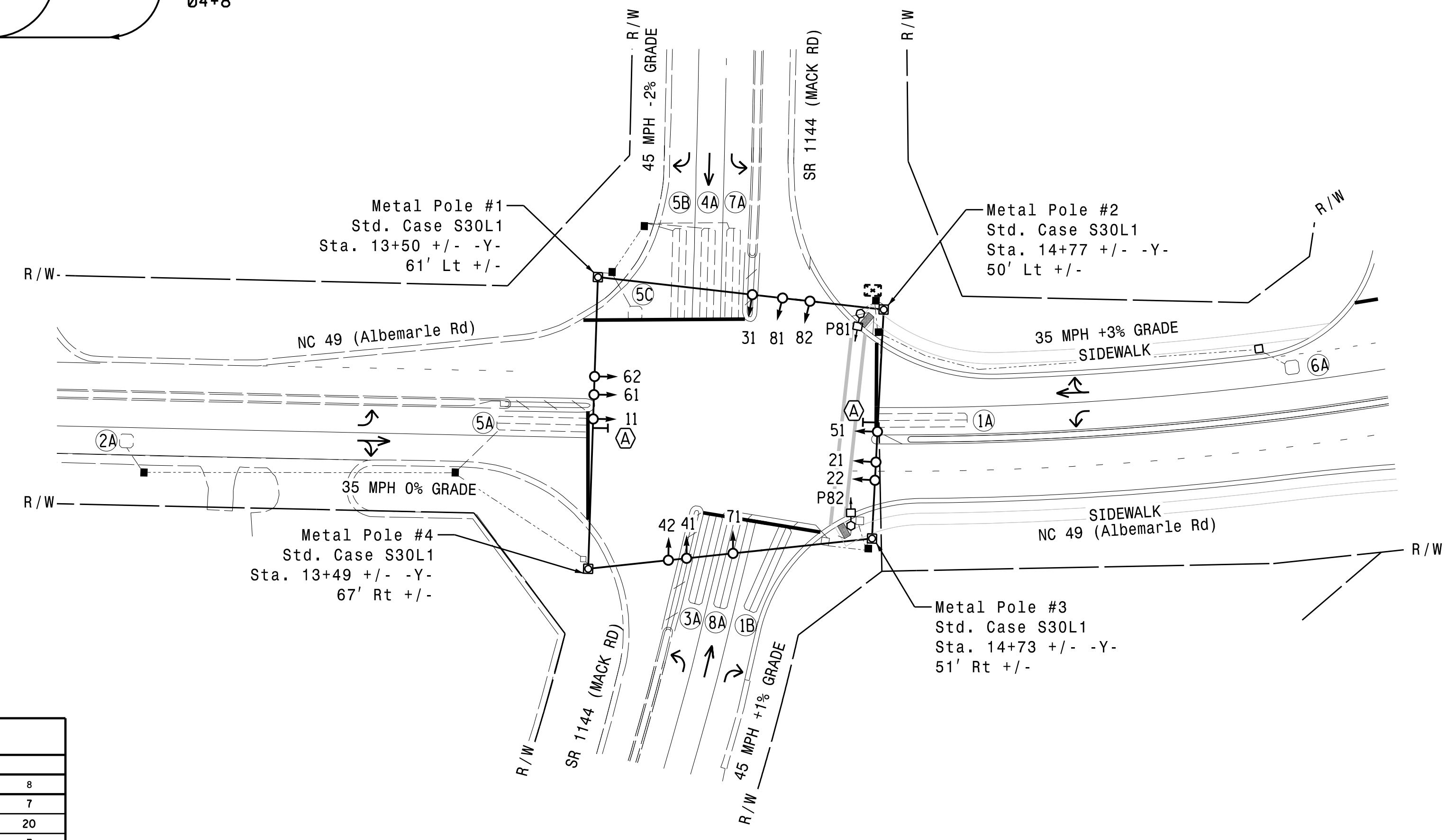
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND INITIAL	CALL	CALL	NEW CARD	
1A	6X40	0	2-4-2	—	1	*15	—	—	X	X	—	—
1B	6X40	0	2-4-2	X	1	15	—	—	X	X	—	—
2A	6X6	200	4	—	2	—	—	—	X	X	—	—
3A	6X40	0	2-4-2	X	3	15	—	—	X	X	—	—
4A	6X40	0	2-4-2	—	4	—	—	—	X	X	—	—
5A	6X40	0	2-4-2	—	5	*15	—	—	X	X	—	—
5B	6X40	0	2-4-2	—	5	15	—	—	X	X	—	—
5C	6X6	0	4	—	5	15	—	—	X	X	—	—
6A	6X6	180	3	—	6	—	—	—	X	X	—	—
7A	6X40	0	2-4-2	—	7	15	—	—	X	X	—	—
8A	6X40	0	2-4-2	X	8	—	—	—	X	X	—	—

* Reduce Delay to 3 seconds During Alternate Phasing Operation.
 * Disable phase call during Alternate Phasing operation.

8 Phase Fully Actuated Signal System #D08-29_Asheboro US 64 Bus-NC 49 (Asheboro)

NOTES

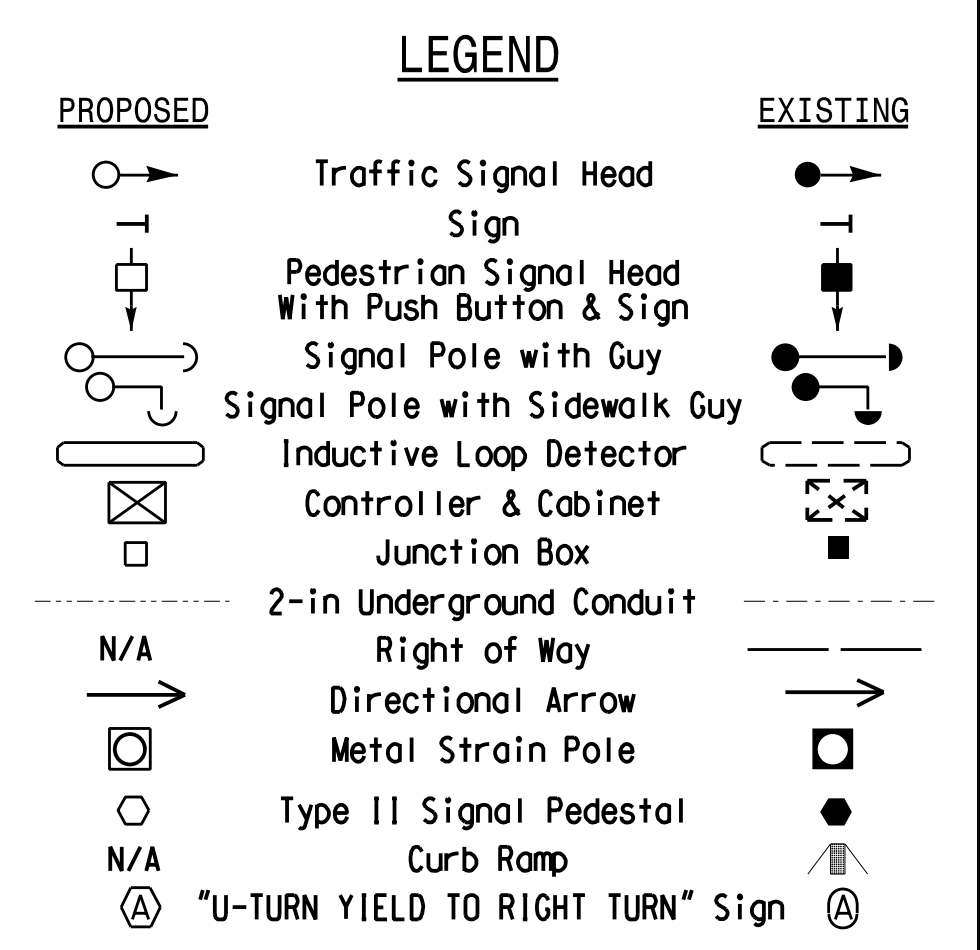
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.



MAXTIME TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Walk *	—	—	—	—	—	—	—	7
Ped Clear *	—	—	—	—	—	—	—	20
Min Green	7	10	7	7	7	10	7	7
Passage *	2.0	5.0	2.0	2.0	2.0	5.0	2.0	2.0
Max 1 *	15	50	20	20	30	50	20	20
Yellow Change	3.0	3.8	3.0	4.7	3.0	3.8	3.0	4.7
Red Clear	2.9	2.2	2.4	1.3	2.9	2.2	2.8	1.3
Added Initial *	—	2.5	—	—	—	2.5	—	—
Maximum Initial *	—	24	—	—	—	22	—	—
Time Before Reduction *	—	15	—	—	—	15	—	—
Time To Reduce *	—	30	—	—	—	30	—	—
Minimum Gap	—	3.0	—	—	—	3.0	—	—
Advance Walk	—	—	—	—	—	—	—	—
Non Lock Detector	X	—	X	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-Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	NC 49 (Albemarle Rd) at SR 1144 (Mack Rd)		
	Division 8 Randolph County Asheboro PLAN DATE: August 2021 PREPARED BY: N.K. Vianich	REVIEWED BY: A.D. Klinksiek REVIEWED BY: N.R. Simmons	
HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997		750 N. Greenfield Pkwy, Garner, NC 27529 PREPARED BY: N.K. Vianich REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE DocuSigned by: N. K. Vianich 5/21/2024 SIGNATURE DATE N. K. Vianich 5/21/2024 DATE SIG. INVENTORY NO. 08-0506