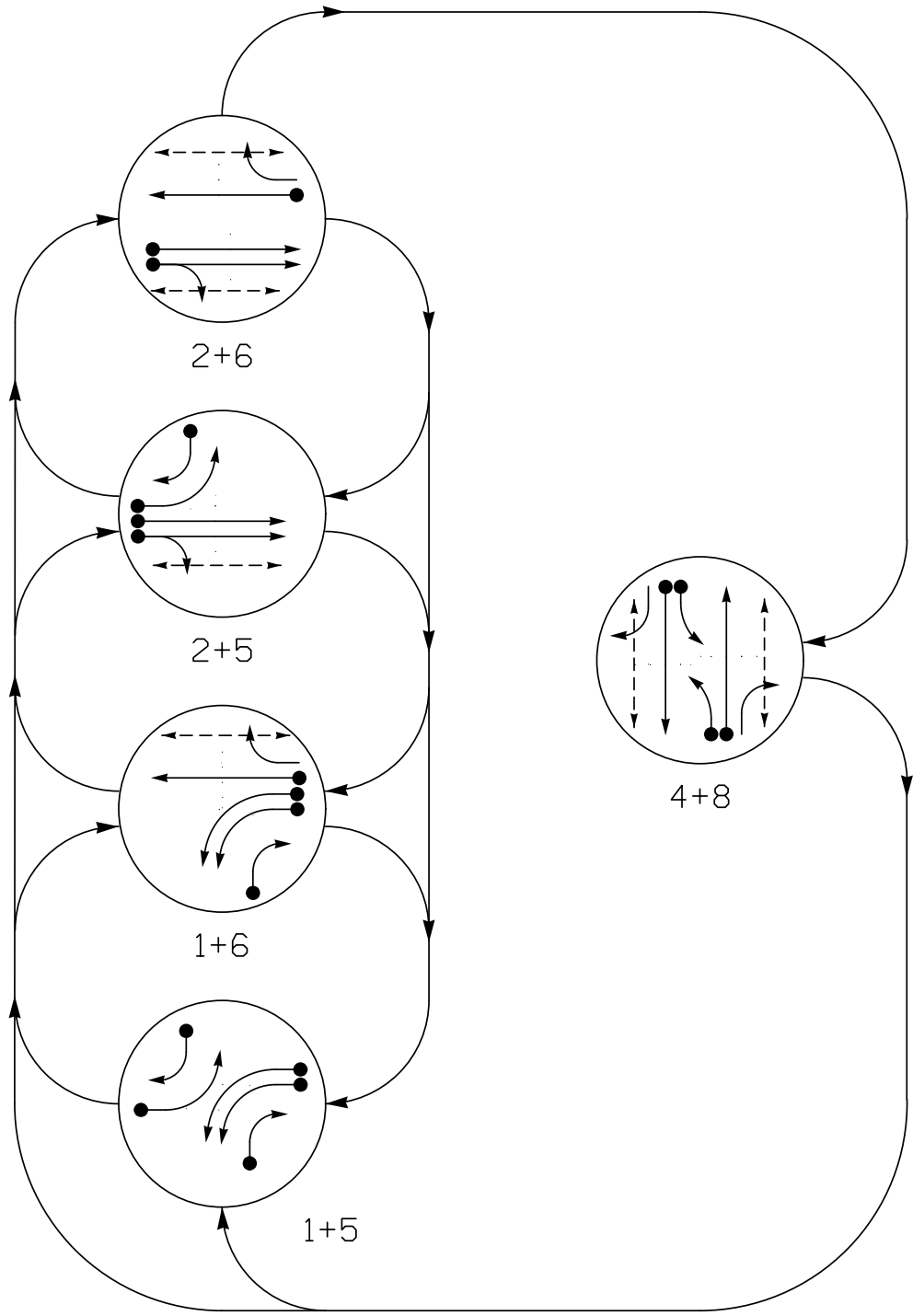


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE	PHASE				
	1 + 5	1 + 6	2 + 5	2 + 6	4 + 8
11, 12	←	←	→	→	→
21, 22	→	→	←	←	←
41	→	→	→	→	→
42, 43	→	→	→	→	→
44	→	→	→	→	→
51	←	←	←	←	←
61, 62	←	←	←	←	←
63	←	←	←	←	←
81	←	←	←	←	←
82, 83	←	←	←	←	←
84	←	←	←	←	←
P21, P22	DW	DW	W	W	DRK
P41, P42	DW	DW	DW	DW	W
P61, P62	DW	W	DW	W	DRK
P81, P82	DW	DW	DW	DW	W

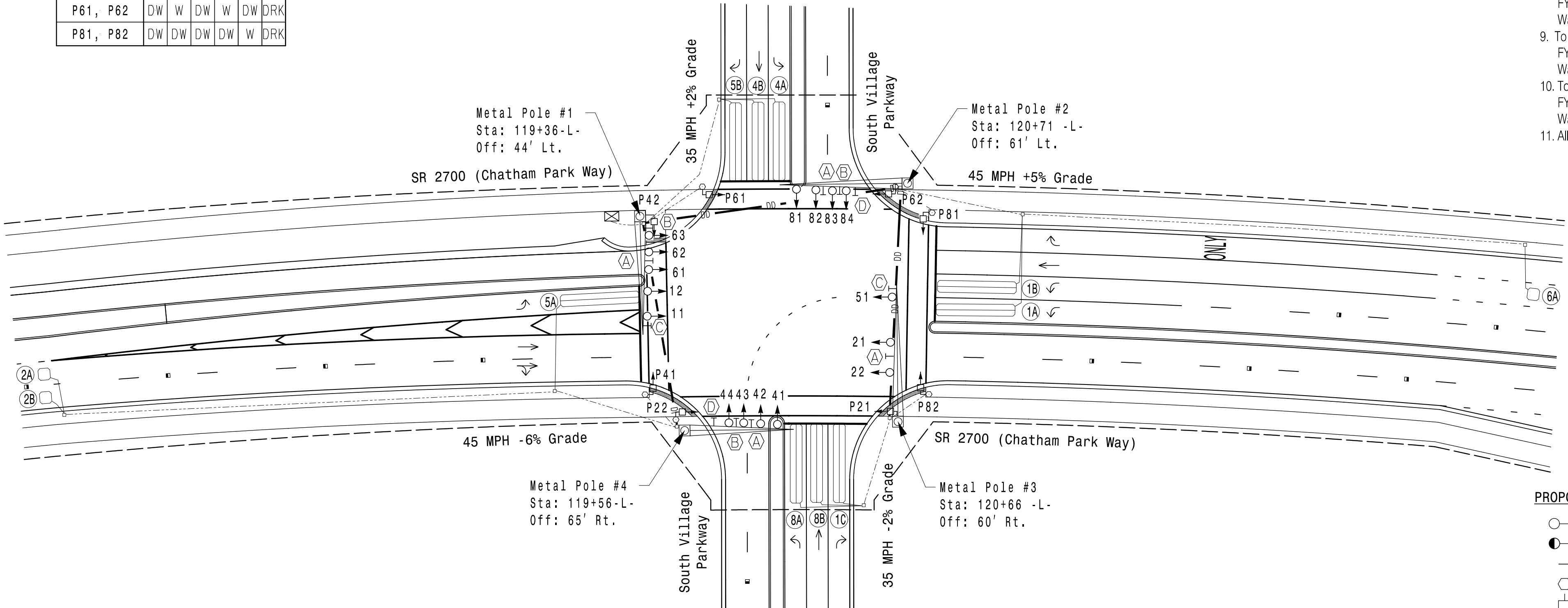
MAXTIME DETECTOR INSTALLATION CHART

DETECTOR				PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	URNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	NEW CARD
1A	6X40	0	2-4-2	X	1	-	-	X	-	X
1B	6X40	0	2-4-2	X	1	-	-	X	-	X
1C	6X40	0	2-4-2	X	1	15.0	-	X	-	X
2A	6X6	300	6	X	2	-	-	X	X	X
2B	6X6	300	6	X	2	-	-	X	X	X
4A	6X40	0	2-4-2	X	4	-	-	X	-	X
4B	6X40	0	2-4-2	X	4	-	-	X	-	X
5A	6X40	0	2-4-2	X	5	-	-	X	-	X
5B	6X40	0	2-4-2	X	5	15.0	-	X	-	X
6A	6X6	300	6	X	6	-	-	X	X	X
8A	6X40	0	2-4-2	X	8	-	-	X	-	X
8B	6X40	0	2-4-2	X	8	-	-	X	-	X

5 Phase Fully Actuated (Isolated)

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.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- To provide a leading pedestrian interval on phase 4, program FYA heads 44 and 81 to delay for 5 seconds after the start of the phase 4 Walk Interval. See electrical details.
- To provide a leading pedestrian interval on phase 6, program FYA head 63 to delay for 7 seconds after the start of the phase 6 Walk Interval. See electrical details.
- To provide a leading pedestrian interval on phase 8, program FYA heads 41 and 84 to delay for 6 seconds after the start of the phase 8 Walk Interval. See electrical details.
- All metal poles and pedestrian pedestals to be painted agate gray.



LEGEND

- | PROPOSED | | EXISTING |
|----------|--|----------|
| ○ | Traffic Signal Head | ● |
| ○ | Modified Signal Head | N/A |
| + | Sign | + |
| ○ | Type II Signal Pedestal | ● |
| □ | Pedestrian Signal Head With Push Button & Sign | ■ |
| ○ | Metal Pole with Mastarm | ○ |
| ○ | Inductive Loop Detector | ○ |
| □ | Controller & Cabinet | □ |
| □ | Junction Box | ■ |
| --- | 2-in Underground Conduit | --- |
| --- | Directional Drill | N/A |
| N/A | Right of Way | --- |
| → | Directional Arrow | → |
| N/A | Curb Ramp | ↘ |
| (A) | Street Name Sign (D3-1) | (A) |
| (B) | "RIGHT TURN SIGNAL" Sign (R10-10R) | (B) |
| (C) | "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | (C) |
| (D) | Right Arrow "ONLY" Sign (R3-5R) | (D) |

MAXTIME TIMING CHART

FEATURE	PHASE					
	1	2	4	5	6	8
Walk *	-	14	12	-	14	13
Ped Clear	-	24	18	-	22	21
Min Green *	7	12	7	7	12	7
Passage *	2.0	6.0	2.0	2.0	6.0	2.0
Max 1 *	30	90	40	30	90	40
Yellow Change	3.0	5.1	4.0	3.1	5.1	4.0
Red Clear	3.5	2.2	2.6	3.3	2.2	2.6
Added Initial *	-	1.5	-	-	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	X	-	X
Vehicle Recall	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X

* These values may be field adjusted. Do not adjust Min Green and Passage 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 #8.
*** See Note #9.
**** See Note #10.

SIGNAL FACE I.D.

All Heads L.E.D.

