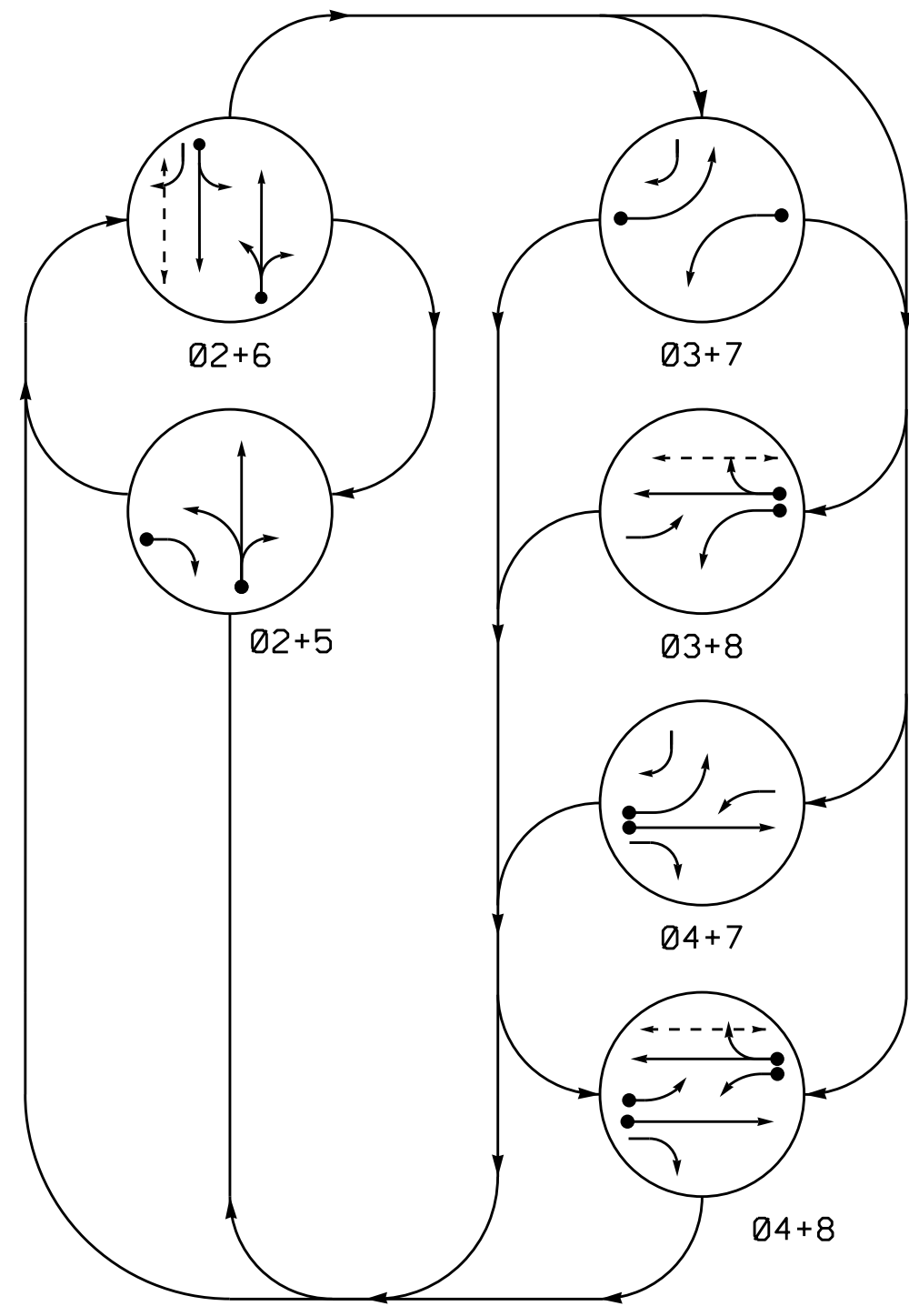


PHASING DIAGRAM



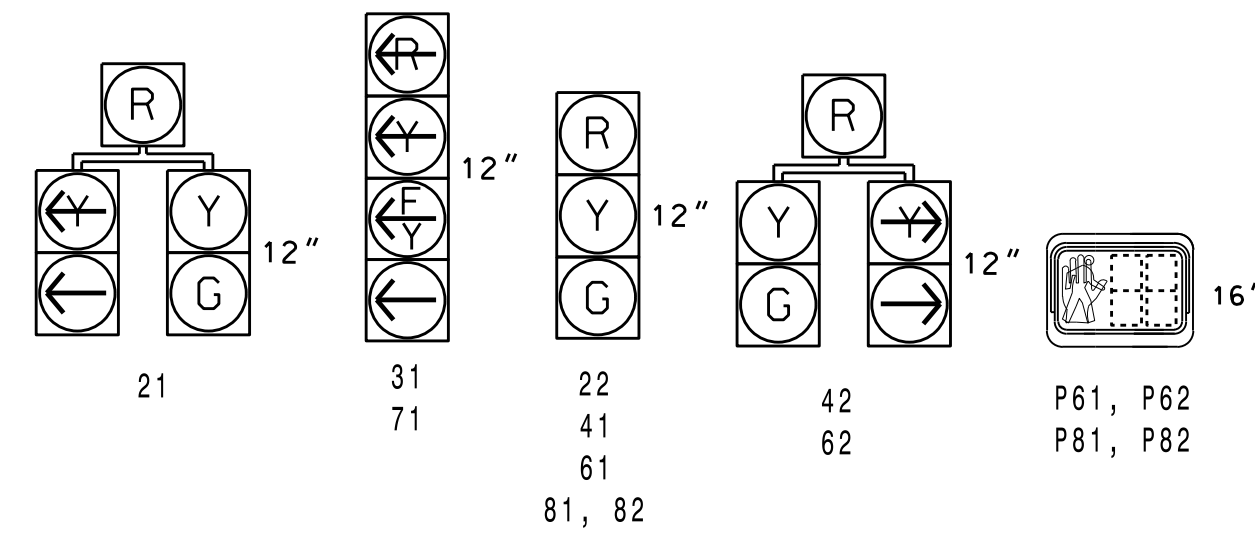
PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE						FLASH
	02+5	02+6	03+7	03+8	04+7	04+8	
21	G	R	R	R	R	R	Y
22	G	G	R	R	R	R	Y
31	R	R	R	R	G	G	R
41	R	R	R	R	G	G	R
42	R	R	R	R	G	G	R
61	R	G	R	R	R	R	Y
62	R	G	R	R	R	R	Y
71	R	R	R	R	G	G	R
81, 82	R	R	R	R	G	G	R
P61, P62	DW	W	DW	DW	DW	DW	DRK
P81, P82	DW	DW	DW	W	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



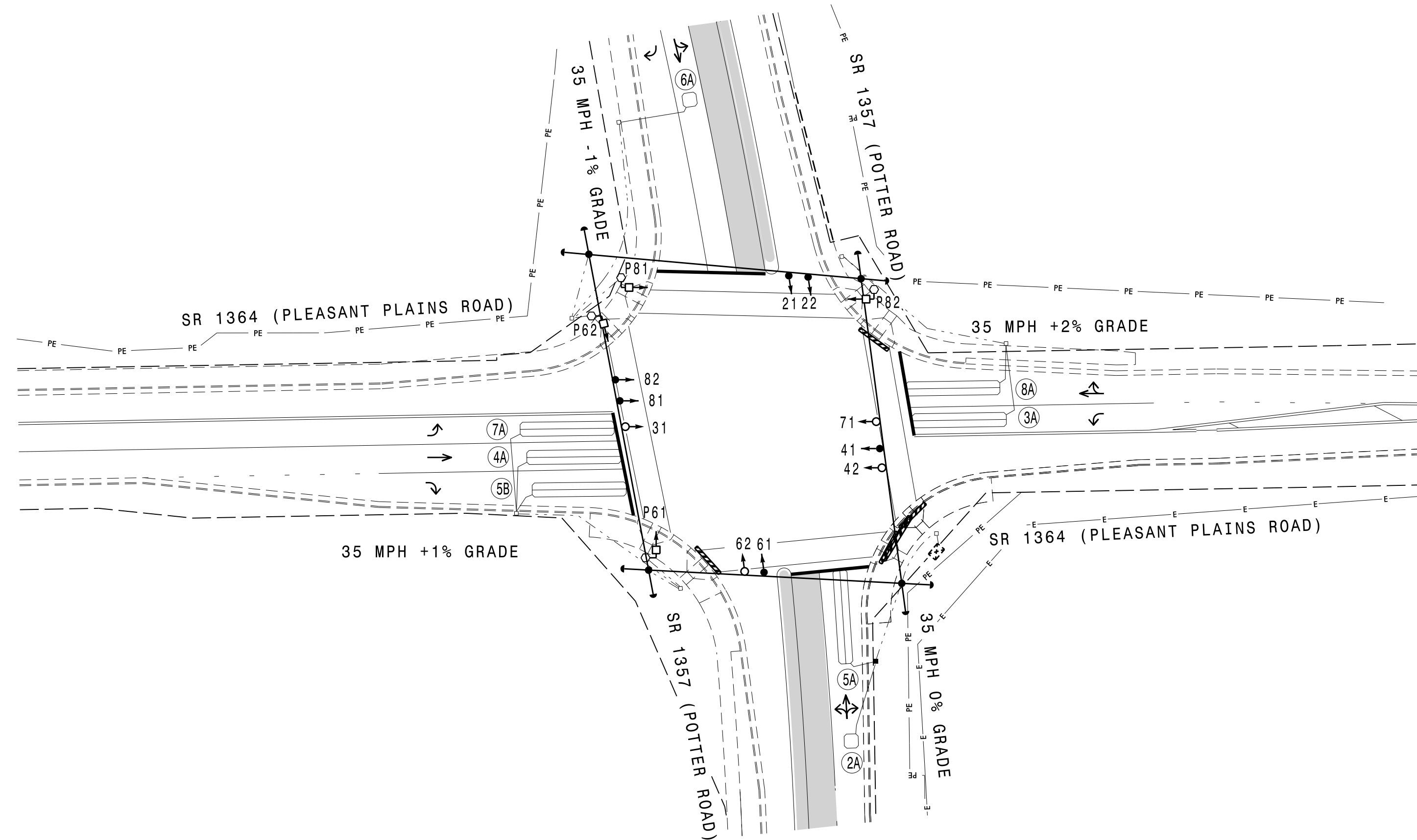
MAXTIME DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	INITIAL CALL	NEW CARD	
2A	6X6	70	3	X	2	-	-	X	-	X	-	-
3A	6X40	0	2-4-2	X	3	15.0	-	X	-	X	-	X
4A	6X40	0	2-4-2	X	4	-	-	X	-	X	-	-
5A	6X40	0	2-4-2	X	5	15.0	-	X	-	X	-	-
5B	6X40	0	2-4-2	X	5	15.0	-	X	-	X	-	X
6A	6X6	70	4	X	6	-	-	X	-	X	-	-
7A	6X40	0	2-4-2	X	7	15.0	-	X	-	X	-	X
8A	6X40	0	2-4-2	X	8	10.0	-	X	-	X	-	-

6 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.
- Enable Backup Prevent to allow the controller to clear from phase 2+6 to phase 2+5 by progressing through and all red display.
- Phase 3 and/or phase 7 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.



LEGEND

- | PROPOSED | EXISTING |
|--|---------------------------------|
| ○→ Traffic Signal Head | ●→ Traffic Signal Head |
| ●→ Modified Signal Head | N/A |
| ⊥ Sign | ⊥ Sign |
| ⊥ Pedestrian Signal Head With Push Button & Sign | ⊥ Pedestrian Signal Head |
| □ Type II Signal Pedestal | ● Type II Signal Pedestal |
| ○ Signal Pole with Guy | ● Signal Pole with Guy |
| ○ Signal Pole with Sidewalk Guy | ● Signal Pole with Sidewalk Guy |
| ⊗ Inductive Loop Detector | ⊗ Inductive Loop Detector |
| □ Controller & Cabinet | □ Controller & Cabinet |
| □ Junction Box | □ Junction Box |
| --- 2-in Underground Conduit | --- 2-in Underground Conduit |
| N/A Right of Way | --- Right of Way |
| PE Permanent Easement | PE Permanent Easement |
| -E- Temporary Easement | -E- Temporary Easement |
| → Directional Arrow | → Directional Arrow |
| ▬ Construction Zone | ▬ Construction Zone |
| ▬ Barricade | ▬ Barricade |

MAXTIME TIMING CHART

FEATURE	PHASE							
	2	3	4	5	6	7	8	
Walk *	-	-	-	-	7	-	7	
Ped Clear *	-	-	-	-	21	-	22	
Min Green	10	7	7	7	10	7	7	
Passage *	3.0	2.0	2.0	2.0	3.0	2.0	2.0	
Max 1 *	70	30	30	30	70	30	30	
Yellow Change	3.8	3.0	3.8	3.0	3.9	3.0	3.8	
Red Clear	2.7	2.9	2.3	3.5	2.4	3.1	2.3	
Red Revert	5.0	2.0	2.0	2.0	2.0	2.0	2.0	
Added Initial *	-	-	-	-	-	-	-	
Maximum Initial *	-	-	-	-	-	-	-	
Time Before Reduction *	-	-	-	-	-	-	-	
Time To Reduce *	-	-	-	-	-	-	-	
Minimum Gap	-	-	-	-	-	-	-	
Advance Walk	-	-	-	-	-	-	-	
Non Lock Detector	-	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.

This plan supersedes the plan signed and sealed on 8/11/23.

Signal Upgrade - Temporary Design 3
TMP Phase 3 and Phase 3a

	SR 1357 (Potter Road) AT SR 1364 (Pleasant Plains Road)		SEAL R. NICHOLAS ZINSER PROFESSIONAL ENGINEER LICENSE NO. 043914 DATE 12/05/2023
	Division 10 Union County Stallings		
	PLAN DATE: December 2023	REVIEWED BY: R.N. Zinser	
	PREPARED BY: T.A. Kenion	REVIEWED BY:	
REVISIONS		INIT. DATE	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
SCALE 0 40' 1"=40'		SIGNED: R. Nicholas Zinser DATE: 12/05/2023 SIG. INVENTORY NO. 10-0696T3	