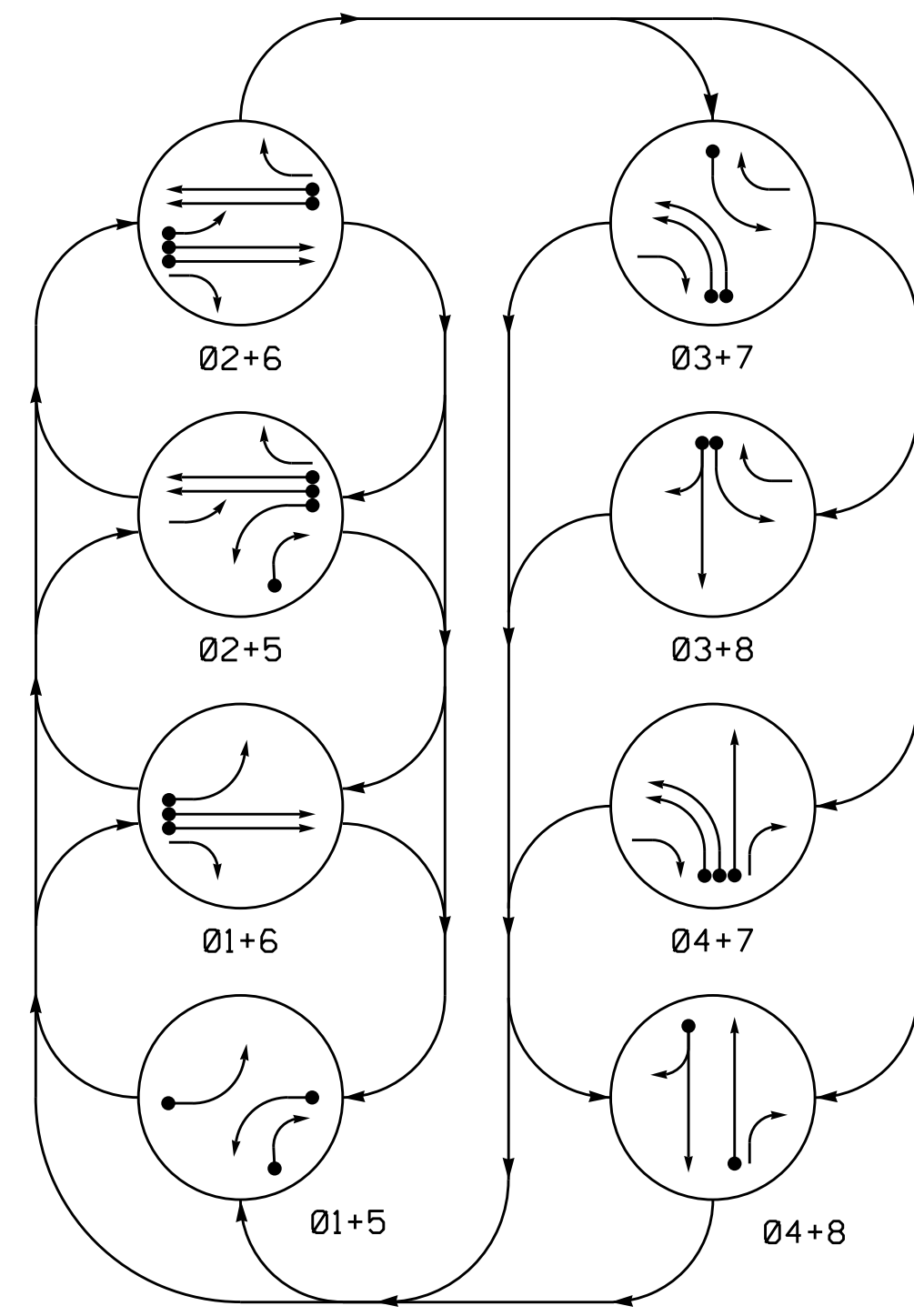
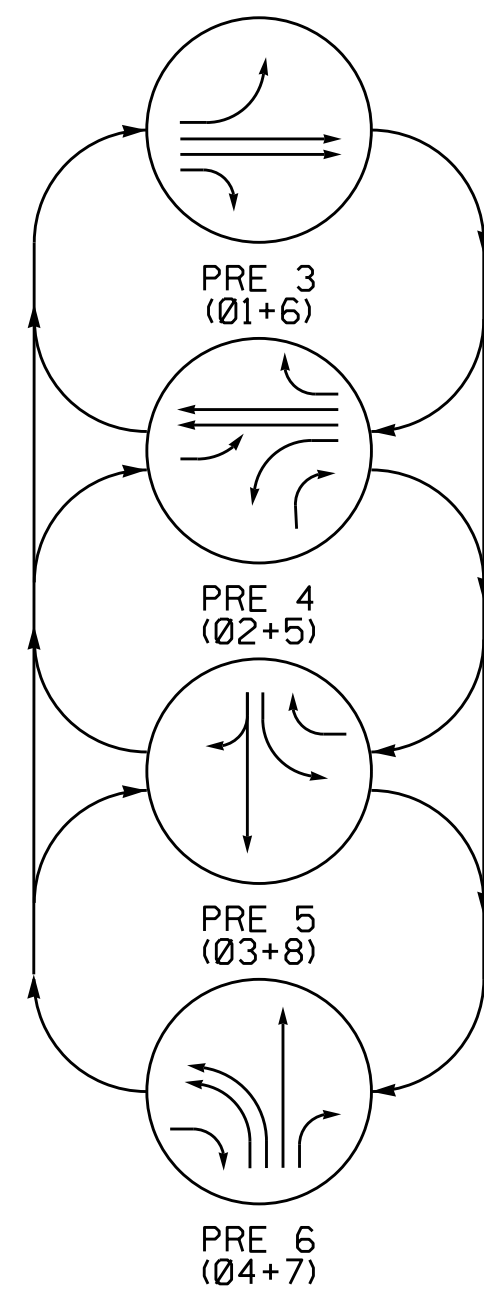


8 Phase Fully Actuated with Emergency Vehicle Preemption (Salisbury Signal System)

DEFAULT PHASING DIAGRAM



DEFAULT PHASING EV PREEMPT PHASES (Medium Priority)



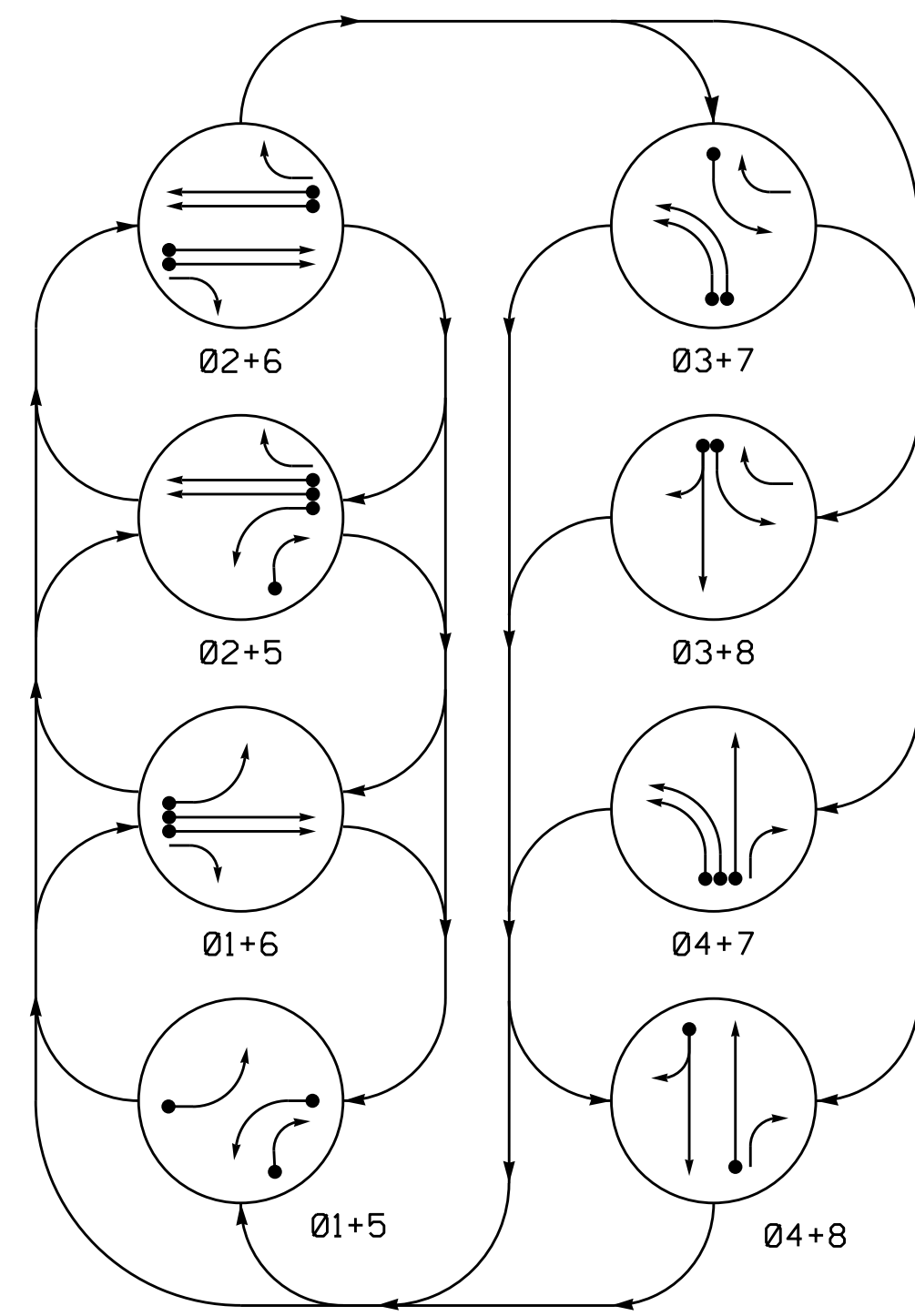
DEFAULT PHASING TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|
| | Ø 1 + 5 | Ø 1 + 6 | Ø 2 + 5 | Ø 2 + 6 | Ø 3 + 7 | Ø 3 + 8 | Ø 4 + 7 | Ø 4 + 8 | PRE 3 | PRE 4 | PRE 5 | PRE 6 | FLASH |
| 11 | — | — | F | F | R | R | R | R | — | F | R | R | Y |
| 21 | R | R | G | G | R | R | R | R | R | G | R | R | Y |
| 22 | R | R | G | G | R | R | R | R | R | G | R | R | Y |
| 31 | R | R | R | R | — | — | R | R | R | — | R | R | — |
| 41, 43 | R | R | R | R | R | R | G | G | R | R | R | G | R |
| 42 | R | R | R | R | R | R | G | G | R | R | R | R | G |
| 51 | — | R | — | R | R | R | R | R | — | R | R | R | — |
| 61 | R | G | R | G | R | R | R | R | G | R | R | R | Y |
| 62 | R | G | R | G | R | R | R | R | G | R | R | R | Y |
| 71, 72 | R | R | R | R | — | — | R | R | R | — | R | R | — |
| 81, 82 | R | R | R | R | R | G | R | G | R | R | G | R | R |

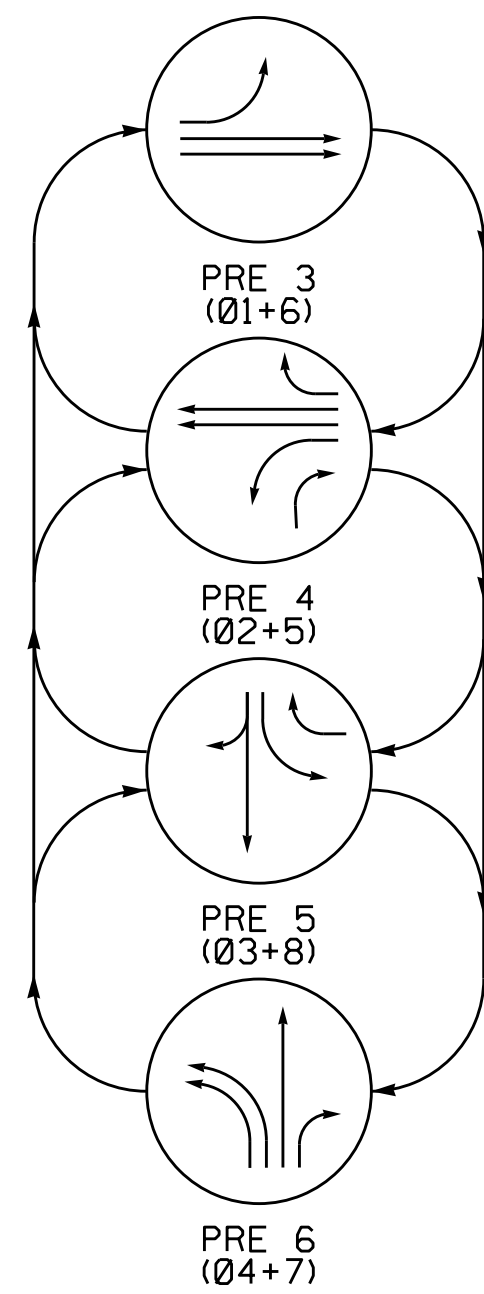
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
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. Phase 3 and/or phase 7 may be lagged.
5. Reuse the existing loops and lead-in cables for detectors 2A, 2B, 3A, 5A and 8A.
6. Install a video imaging loop emulator detection system to maintain vehicle detection during construction. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to obtain optimum detection zones as shown.
7. Set all detector units to presence mode.
8. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
9. Reuse the existing GPS Emergency Vehicle Preemption equipment, and program the preemption phases as shown.
10. Pavement markings are existing.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

ALTERNATE PHASING DIAGRAM



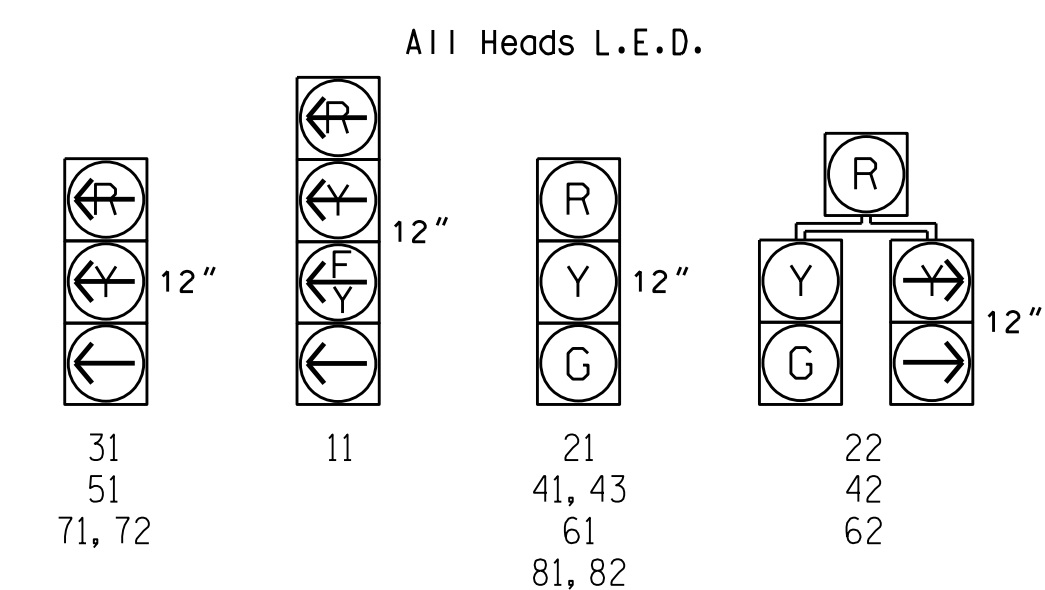
ALTERNATE PHASING EV PREEMPT PHASES (Medium Priority)



ALTERNATE PHASING TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|
| | Ø 1 + 5 | Ø 1 + 6 | Ø 2 + 5 | Ø 2 + 6 | Ø 3 + 7 | Ø 3 + 8 | Ø 4 + 7 | Ø 4 + 8 | PRE 3 | PRE 4 | PRE 5 | PRE 6 | FLASH |
| 11 | — | — | R | R | R | R | R | R | — | R | R | R | Y |
| 21 | R | R | G | G | R | R | R | R | R | G | R | R | Y |
| 22 | R | R | G | G | R | R | R | R | R | G | R | R | Y |
| 31 | R | R | R | R | — | — | R | R | R | — | R | R | — |
| 41, 43 | R | R | R | R | R | R | G | G | R | R | R | G | R |
| 42 | R | R | R | R | R | R | G | G | R | R | R | R | G |
| 51 | — | R | — | R | R | R | R | R | — | R | R | R | — |
| 61 | R | G | R | G | R | R | R | R | G | R | R | R | Y |
| 62 | R | G | R | G | R | R | R | R | G | R | R | R | Y |
| 71, 72 | R | R | R | R | — | — | R | R | R | — | R | R | — |
| 81, 82 | R | R | R | R | R | G | R | G | R | R | G | R | R |

SIGNAL FACE I.D.



PHASING DIAGRAM DETECTION LEGEND

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

(TMP Phase I)
Signal Upgrade - Temporary Design 1
(Sheet 2 of 2)

| | | | | |
|---|---|---------------------|---|-------------------|
| <p>750 N. Greenfield Pkwy, Corner, NC 27529</p> | <p>US 601 (Jake Alexander Blvd S) at SR 2528 (Julian Rd) and Martin Luther King Jr Ave</p> <p>Division 9 Rowan County Salisbury</p> | | <p>SEAL</p> <p>ROBERT J. ZIEMBA ENGINEER 026486</p> | |
| | <p>PLAN DATE: January 2022</p> | <p>REVIEWED BY:</p> | | <p>01/27/2022</p> |
| | <p>PREPARED BY: I.O. Umozurike</p> | <p>REVIEWED BY:</p> | | <p>DATE</p> |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 09-0640T1