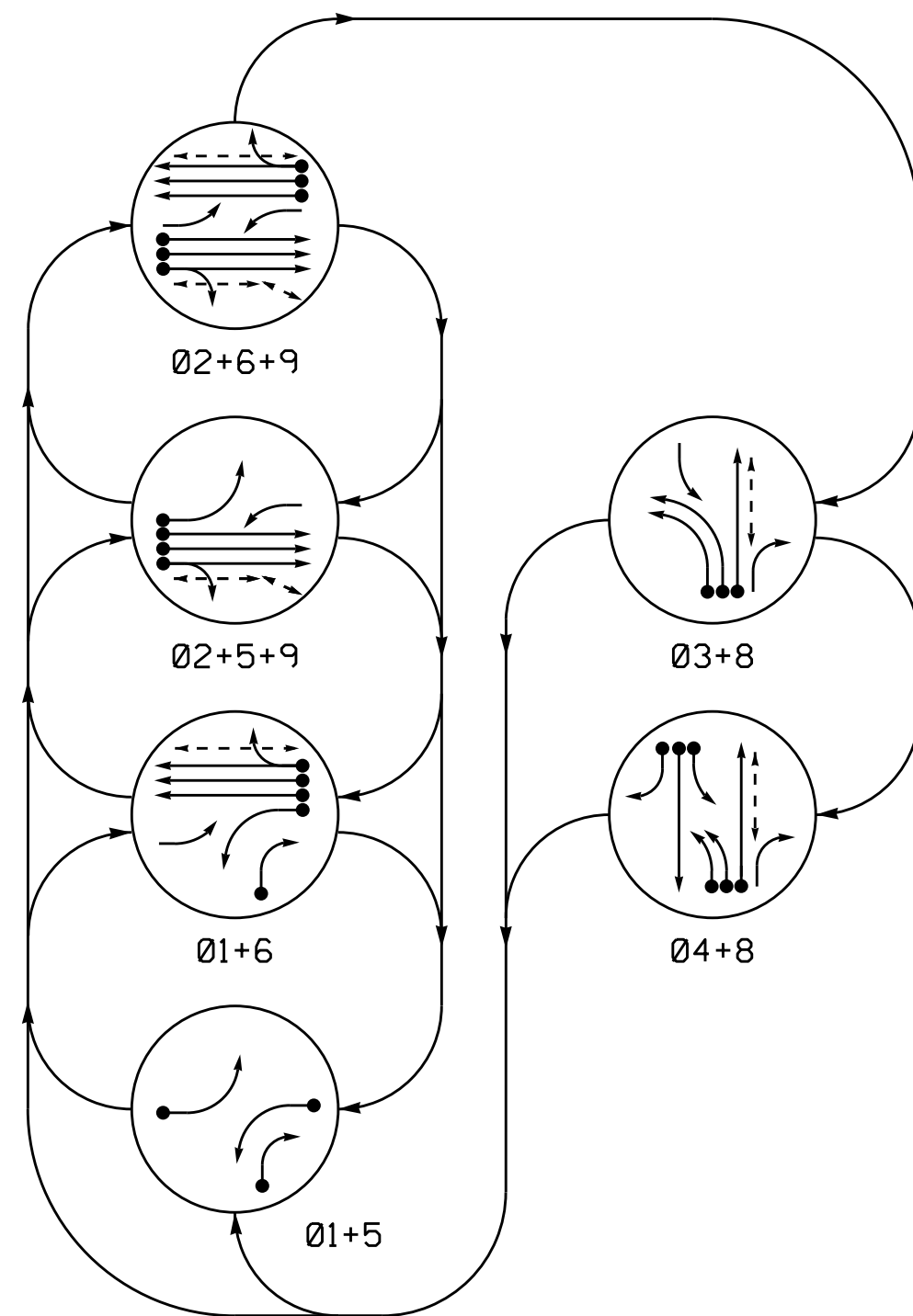
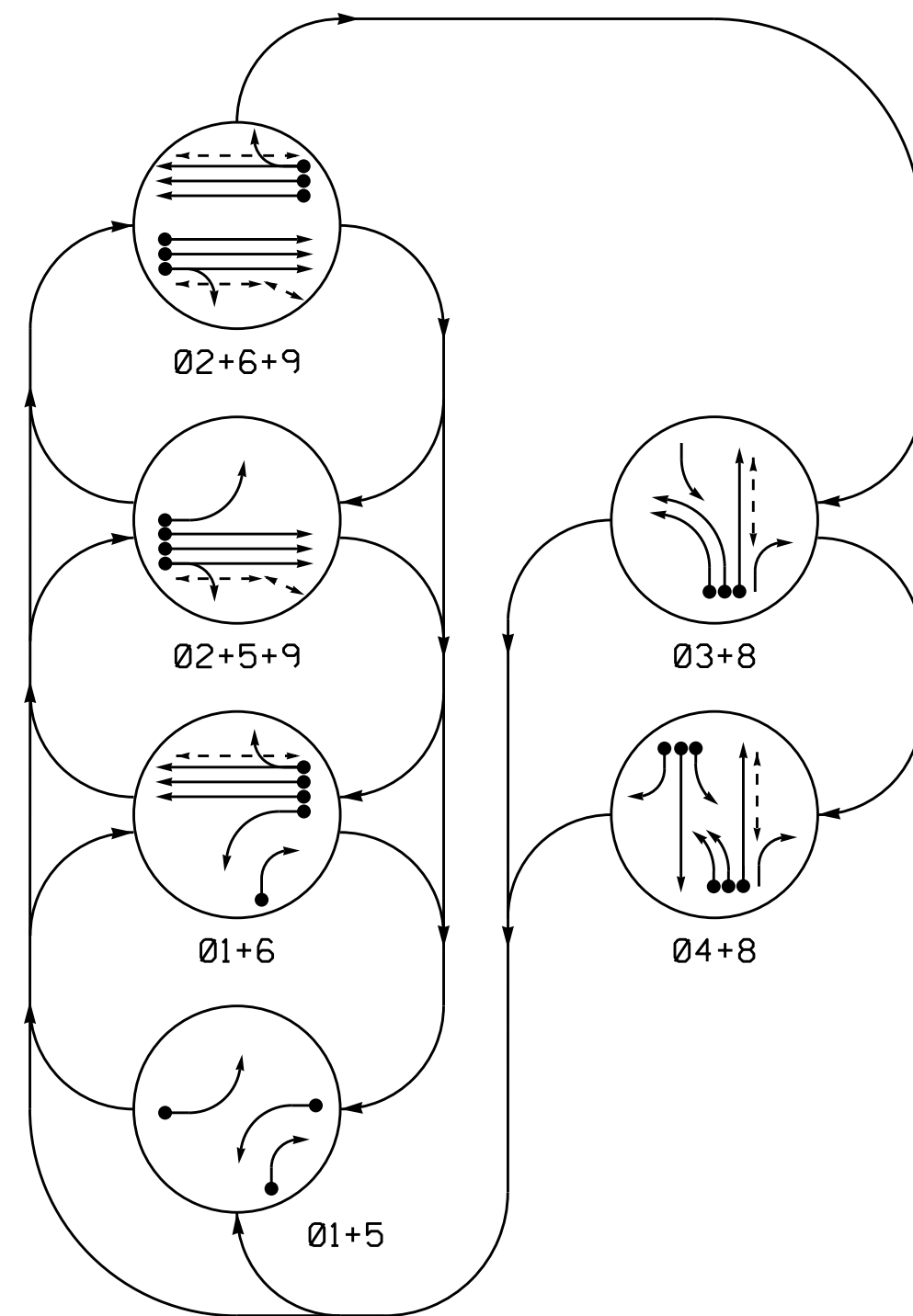


6 Phase Fully Actuated (Raleigh Signal System)

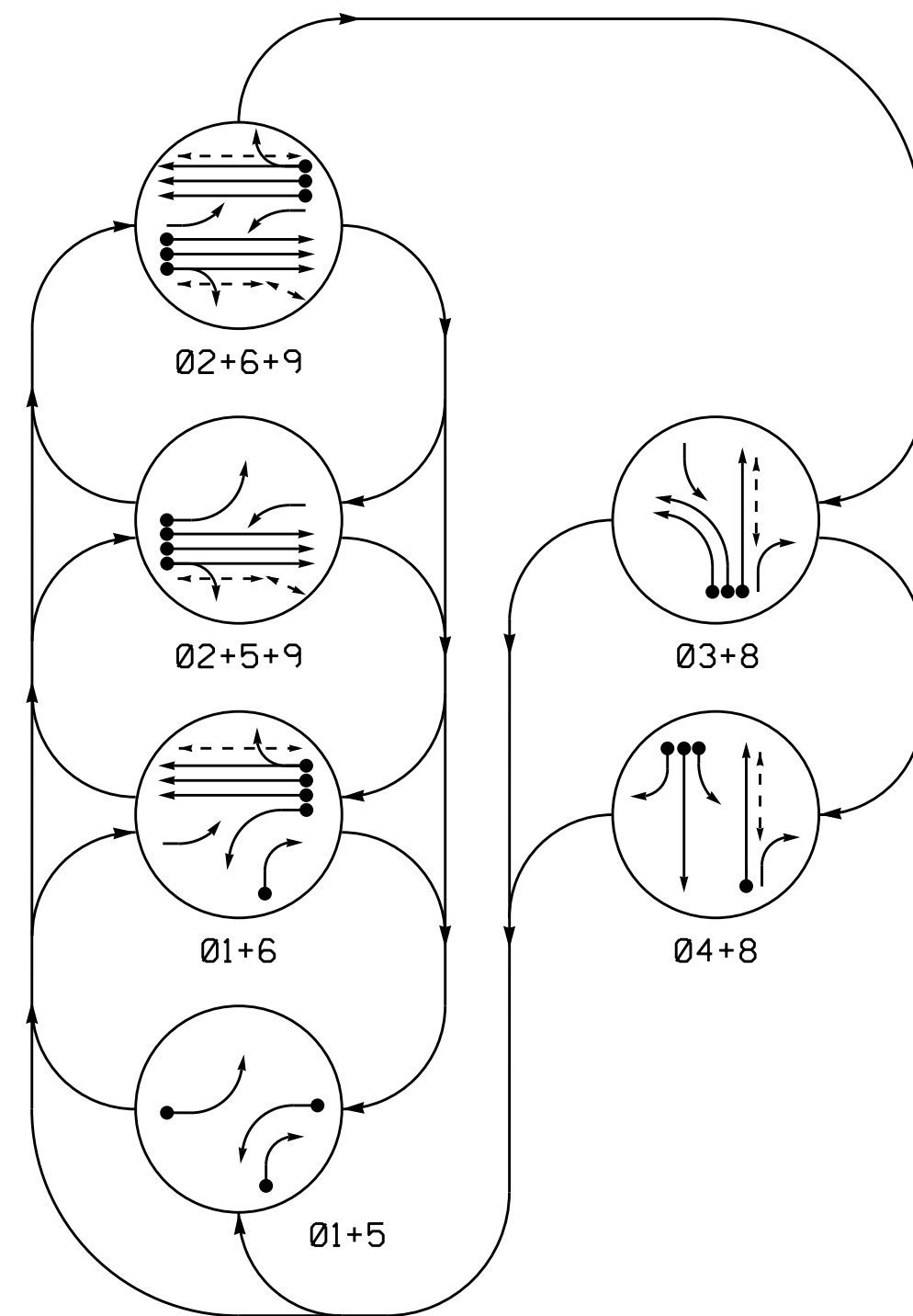
DEFAULT PHASING DIAGRAM



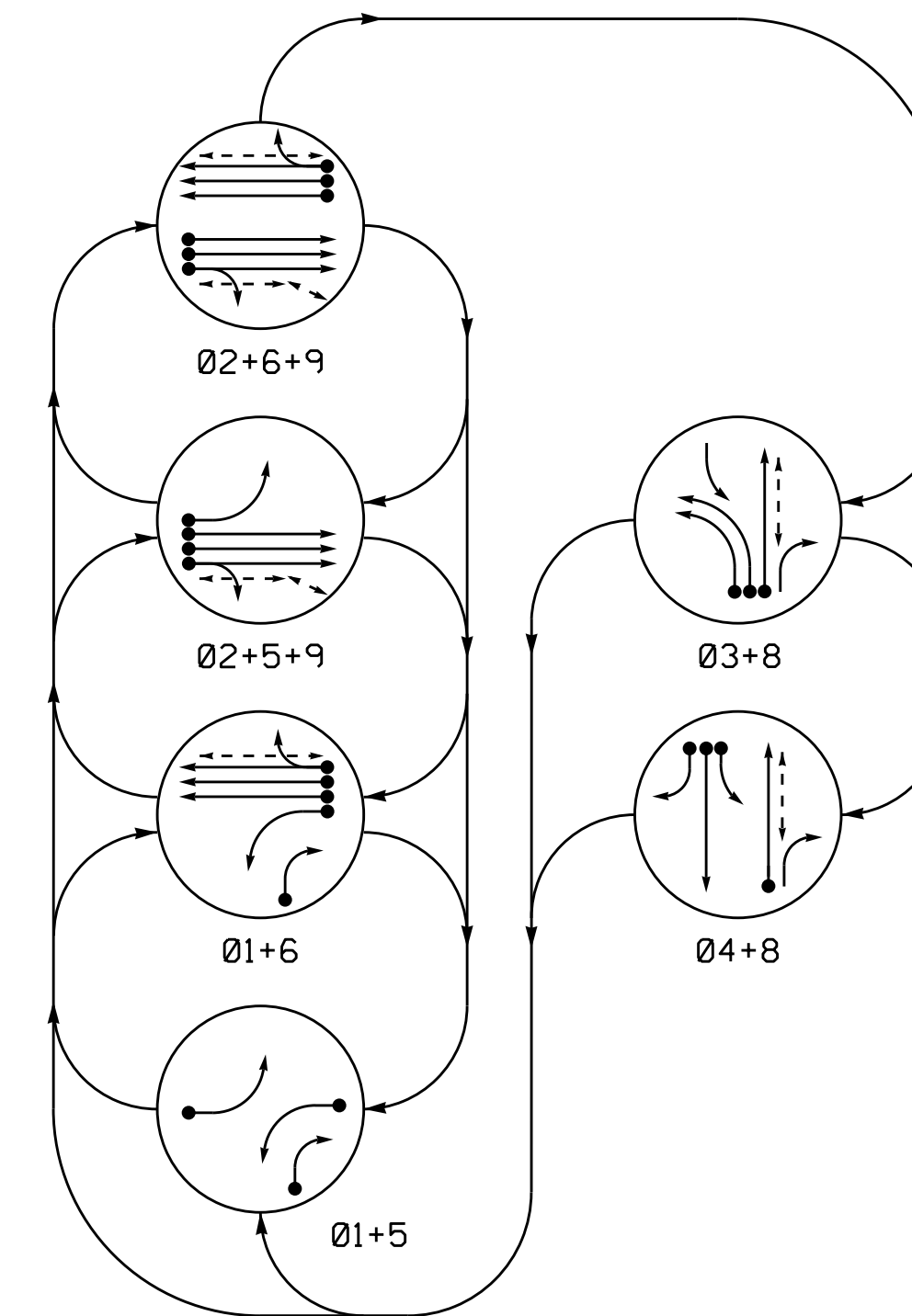
ALTERNATE 1 PHASING DIAGRAM



ALTERNATE 2 PHASING DIAGRAM



ALTERNATE 3 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+9	02+6+9	03+8	04+8	
11	—	—	—	—	—	—	Y
21, 22, 23	R	R	G	G	R	R	Y
31, 32	R	R	R	R	—	—	—
41	R	R	R	R	—	—	—
42, 43, 44	R	R	R	R	R	G	R
51	—	—	—	—	—	—	Y
61, 62, 63, 64	R	G	R	G	R	R	Y
81	R	R	R	R	G	G	R
82, 83	R	R	R	R	G	G	R
P21, P22	DW	DW	W	W	DW	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	W	DRK
P91, P92	DW	DW	W	W	DW	DW	DRK
SIGN D	OFF	OFF	ON	ON	OFF	OFF	OFF

ALTERNATE 1 PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5+9	02+6+9	03+8	04+8	
11	—	—	—	—	—	—	Y
21, 22, 23	R	R	G	G	R	R	Y
31, 32	R	R	R	R	—	—	—
41	R	R	R	R	—	—	—
42, 43, 44	R	R	R	R	R	G	R
51	—	—	—	—	—	—	Y
61, 62, 63, 64	R	G	R	G	R	R	Y
81	R	R	R	R	G	G	R
82, 83	R	R	R	R	G	G	R
P21, P22	DW	DW	W	W	DW	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	W	DRK
P91, P92	DW	DW	W	W	DW	DW	DRK
SIGN D	OFF	OFF	ON	ON	OFF	OFF	OFF

ALTERNATE 2 PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5+9	02+6+9	03+8	04+8	
11	—	—	—	—	—	—	Y
21, 22, 23	R	R	G	G	R	R	Y
31, 32	R	R	R	R	—	—	—
41	R	R	R	R	—	—	—
42, 43, 44	R	R	R	R	R	G	R
51	—	—	—	—	—	—	Y
61, 62, 63, 64	R	G	R	G	R	R	Y
81	R	R	R	R	G	G	R
82, 83	R	R	R	R	G	G	R
P21, P22	DW	DW	W	W	DW	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	W	DRK
P91, P92	DW	DW	W	W	DW	DW	DRK
SIGN D	OFF	OFF	ON	ON	OFF	OFF	OFF

ALTERNATE 3 PHASING TABLE OF OPERATION

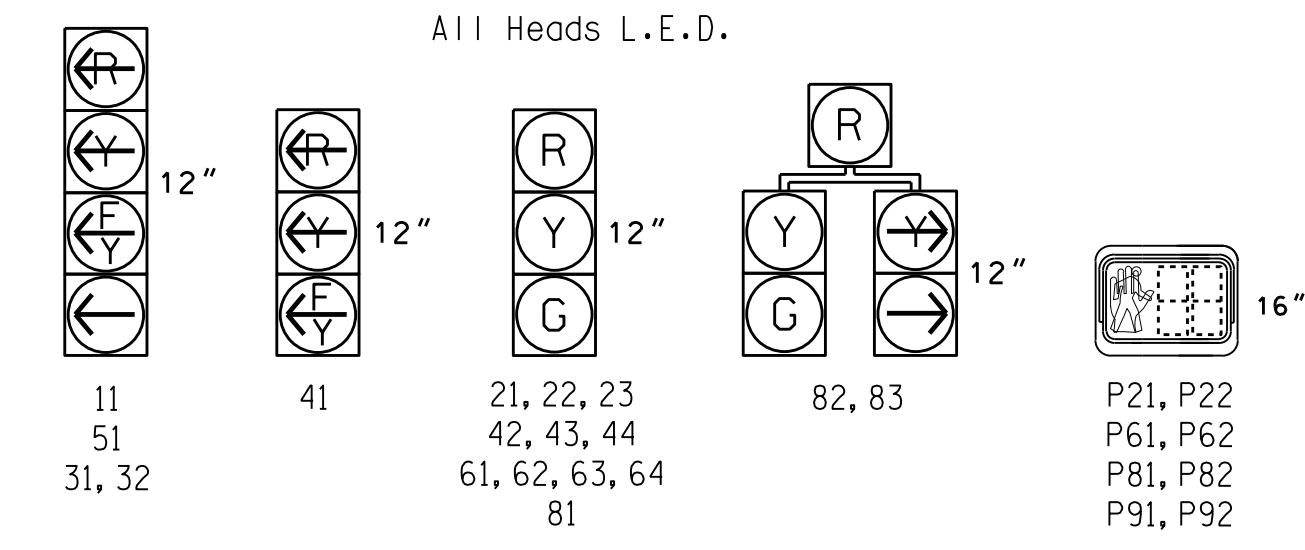
SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5+9	02+6+9	03+8	04+8	
11	—	—	—	—	—	—	Y
21, 22, 23	R	R	G	G	R	R	Y
31, 32	R	R	R	R	—	—	—
41	R	R	R	R	—	—	—
42, 43, 44	R	R	R	R	R	G	R
51	—	—	—	—	—	—	Y
61, 62, 63, 64	R	G	R	G	R	R	Y
81	R	R	R	R	G	G	R
82, 83	R	R	R	R	G	G	R
P21, P22	DW	DW	W	W	DW	DW	DRK
P61, P62	DW	W	DW	W	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	W	DRK
P91, P92	DW	DW	W	W	DW	DW	DRK
SIGN D	OFF	OFF	ON	ON	OFF	OFF	OFF

- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
 - 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 may be lagged.
 - Set all detector units to presence mode.
 - Omit phase 9 and sign D with no pedestrian calls.
 - Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
 - Program pedestrian heads to countdown the flashing "Don't Walk" time only.
 - This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
 - Phase 9 and phase 2 or 4 pedestrian timing is designed as a 2 stage crossing when crossing the median island. The FDW time shown is only intended to get a pedestrian to/from the island during a single crossing. Install R10-3d signs as appropriate.
 - Illuminate sign D at the beginning of the Ped 9 "Walk" interval. This sign will remain illuminated until the end of the Ped 9 Flashing "Don't Walk" interval.
 - 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 | — Sign |
| □ Pedestrian Signal Head With Push Button & Sign | □ Signal Pole with Guy |
| □ Signal Pole with Sidewalk Guy | □ Inductive Loop Detector |
| □ 2-in Underground Conduit | □ Controller & Cabinet Junction Box |
| N/A Right of Way | — Directional Arrow |
| N/A Curb Ramp | ⊕ Type I Pushbutton Post |
| ⊕ Type II Signal Pedestal | ⊙ Metal Strain Pole |
| ⊙ Directional Drill | N/A |
| Ⓐ "YIELD" Sign (R1-2) | Ⓑ "DO NOT BLOCK INTERSECTION" (R10-7) |
| Ⓒ "STOP HERE ON RED" Sign (R10-6) | Ⓓ "NO TURN ON RED" L.E.D. Blankout Sign |

SIGNAL FACE I.D.



Signal Upgrade - Final Design (Sheet 2 of 2)

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SR 2000 (Falls of Neuse Rd.)
at
SR 2012 (Litchford Rd.)

Division 5 Wake County Raleigh

PLAN DATE: January 2023 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

REVISIONS

INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

01/03/2023

SIG. INVENTORY NO. 05-1156

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