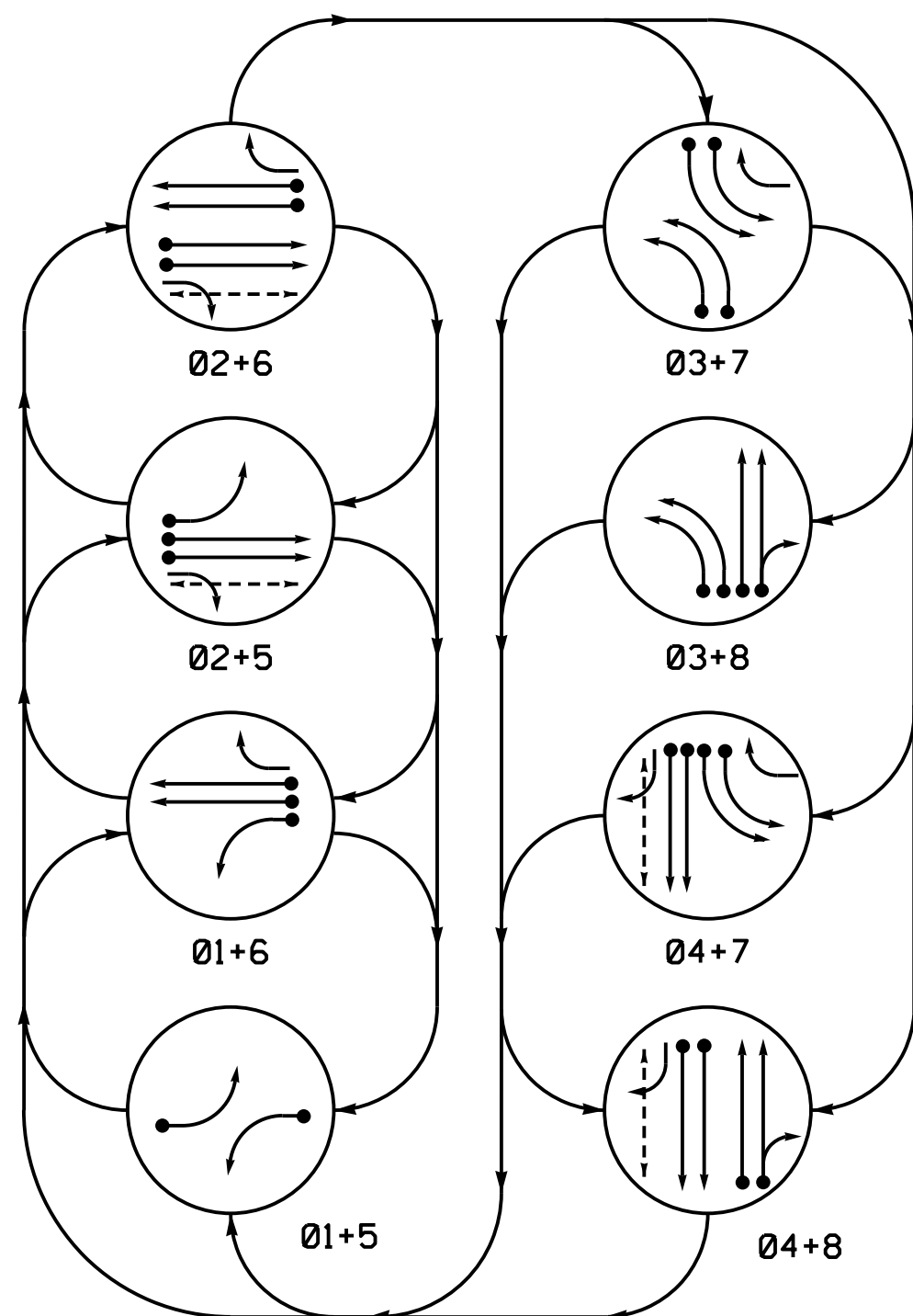


1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. This intersection features accessible pedestrian signals utilizing percussive tone walk indications and/or speech messages.
10. To provide a leading pedestrian interval on phase 2 program FYA head(s) numbered 23 to delay for 7 seconds after the start of the phase 2 walk interval. See Electrical Details for programming.
11. To provide a leading pedestrian interval on phase 4 program FYA head(s) numbered 43 to delay for 6 seconds after the start of the phase 4 walk interval. See Electrical Details for programming.
12. Relocate existing ped pedestal and pushbutton P21 to temp location on a temporary helical foundation. Feed temp ped heads from the overhead span.
13. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
14. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
15. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
16. Controller Asset #0090

EV PREEMPT PHASES



PHASING DIAGRAM DETECTION LEGEND

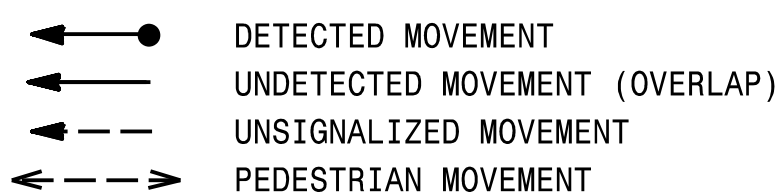
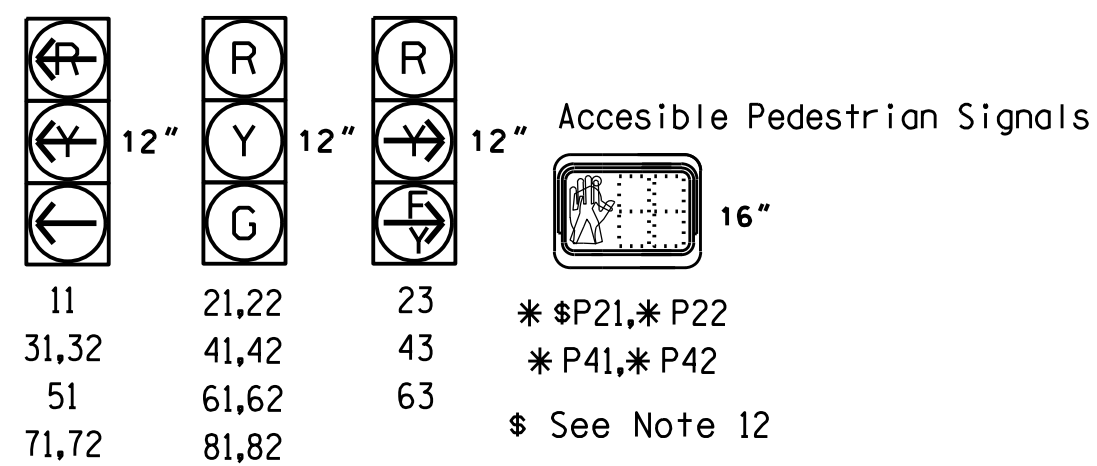


TABLE OF OPERATION

SIGNAL FACE	PHASE										
	0 1 +5	0 1 +6	0 2 +5	0 2 +6	0 3 +7	0 3 +8	0 4 +7	0 4 +8	E V P 3	E V P 5	F L A S H
11	—	—	R	R	R	R	R	R	—	—	R
21,22	R	R	G	G	R	R	R	R	G	R	R
23	R	R	F	F	R	R	R	R	F	R	R
31,32	R	R	R	R	—	—	R	R	R	R	R
41,42	R	R	R	R	R	R	G	G	R	R	R
43	R	R	R	R	R	R	F	F	R	R	R
51	—	R	—	R	R	R	R	R	—	R	R
61,62	R	G	R	G	R	R	R	R	G	R	R
63	R	F	R	F	F	R	F	R	R	F	R
71,72	R	R	R	R	—	R	—	R	R	R	R
81,82	R	R	R	R	R	G	R	G	R	R	R
P21,P22	DW	DW	W	W	DW	DW	DW	DW	DW	DW	DR
P41,P42	DW	DW	DW	DW	DW	DW	W	W	DW	DW	DR

SIGNAL FACE I.D.

All Heads L.E.D.



LEGEND

PROPOSED	LEGEND	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	
	Type II Signal Pedestal	N/A
	Non-Intrusive Detection Zone	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
	Directional Arrow	
N/A	Right of Way	
N/A	Curb Ramp	
	Optical Detector	
	"Right Turn Signal" Sign (R10-10R)	
	Right "TURNING VEHICLES" Yield "TO" Pedestrian Sign (R10-15R)	

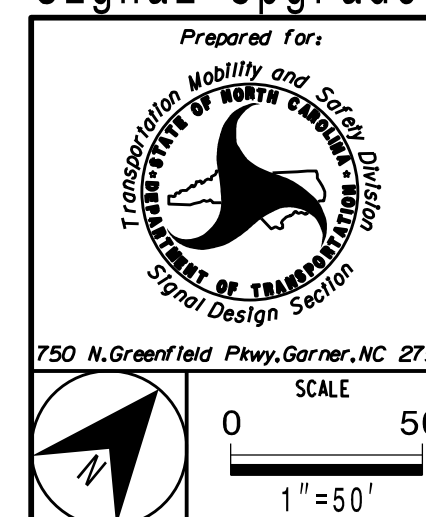
ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SIGNAL FACE	VOICE TONES	INTERVAL	SPEECH MESSAGE
P21	X	Walk	(Percussive Tone)
	X	Flashing Don't Walk / Don't Walk	Wait, Wait to cross Bell Fork
P22	X	Walk	(Percussive Tone)
	X	Flashing Don't Walk / Don't Walk	Wait, Wait to cross Bell Fork
P41	X	Walk	(Percussive Tone)
	X	Flashing Don't Walk / Don't Walk	Wait, Wait to cross Marine
P42	X	Walk	(Percussive Tone)
	X	Flashing Don't Walk / Don't Walk	Wait, Wait to cross Marine

* Accessible Pedestrian Signals

Temporary Design 1; (TMP 2 Step 1)
Signal Upgrade - Sheet 2 of 2

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



US 17 Bus. (Marine Boulevard) at SR 1308 (Gum Branch Road / Bell Fork Road)
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Division 3	Onslow County	Jacksonville
PLAN DATE: July 2026	REVIEWED BY: D. Bennett	

[illegible]