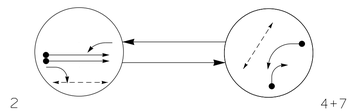
Docusign Envelope ID: 68D05315-339F-8877-826C-A54DFA71DCDF

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	Sig-5.6

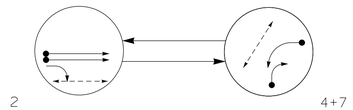
DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 2	PHASE 4+7	FLASH
21,22	G	R	R
23	F	R	R
41,42	R	→	R
71	F	←	R
72	↖	↘	R
P21,P22	W	DW	DRK
P41,P42	DW	W	DRK

ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

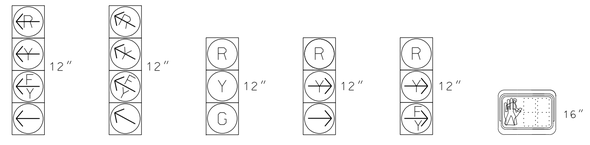
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 2	PHASE 4+7	FLASH
21,22	G	R	R
23	F	R	R
41,42	R	→	R
71	R	←	R
72	↖	↘	R
P21,P22	W	DW	DRK
P41,P42	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



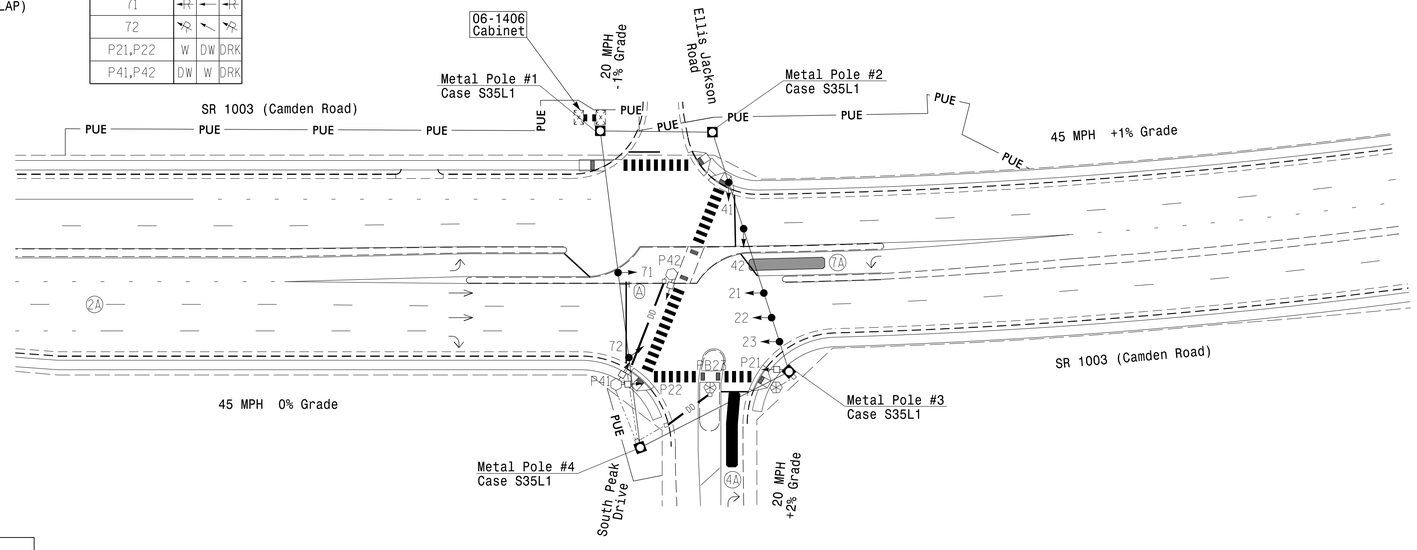
MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A	@	@	**	X	2	-	-	X	-	X	-	**
4A	6X40	0	**	X	4	15.0	-	X	-	X	-	**
7A	6X40	0	**	-	7	15.0*	-	X	-	X	-	**

** Microwave Detection Zone

@ Size and distance vary. See Microwave Detection chart for more details.

* Disable Delay During Alternate Phasing Operation.



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Metal Strain Pole	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	Over-sized Junction Box	
	2-in Underground Conduit	
DD	Directional Drill	N/A
N/A	Right of Way	
	Directional Arrow	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
PUE	Permanent Utility Easement	N/A
	Non-Intrusive Detection Zone	
A	"U-Turn Yield to Right Turn" Sign (R10-16)	A

2 Phase
Fully Actuated
Camden Road CLS

NOTES

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. Set all detector units to presence mode.
4. Reposition existing signal heads numbered 21 and 22.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. To provide a leading pedestrian interval on phase 2, program FYA heads numbered 23,71, and 72 to delay for 7 seconds after the start of the phase 2 walk interval. See Electrical Details for programming.
8. The Division Traffic Engineer will determine the hours of use for each phasing plan.
9. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve desired detection.
10. See pavement marking plans for stop line and crosswalk locations.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 7
Walk *	14	7	–
Ped Clear	14	13	–
Min Green *	12	7	7
Passage *	2.0	2.0	2.0
Max 1 *	90	40	40
Yellow Change	4.5	3.0	3.0
Red Clear	1.1	2.3	2.3
Added Initial *	–	–	–
Maximum Initial *	–	–	–
Time Before Reduction *	–	–	–
Time To Reduce *	–	–	–
Minimum Gap	–	–	–
Advance Walk	**	–	–
Non Lock Detector	–	–	–
Vehicle Recall	MIN RECALL	–	–
Dual Entry	–	X	X

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

** See note #8

Microwave Detection

	2A		
FUNCTION	Sensor 1		
Channel	1		
Phase	2		
Direction of Travel	EB		
Type	Priority		
Level	1	2	QUEUE
Discovery Zone (ft)	>= 50	< 750	-
Range (ft)	900-100	600-100	150-100
Enable Speed	Y	Y	Y
Speed Range (mph)	35-100	35-100	1-35
Enable Estimated Time of Arrival	Y	Y	N
Estimated Time of Arrival (sec)	2.5-10.0	2.5-6.5	-

THIS PLAN SUPERSEDES THE PLAN SEALED ON 12/22/2023

Plans Prepared By:

DRMP

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Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1003 (Camden Road) EB
at
South Peak Drive

Division 6 Cumberland County Hope Mills

PLAN DATE: September 2026 REVIEWED BY: BN Groome
PREPARED BY: DS Griffith DRMP PROJ. NO.: 24941

REVISIONS	INIT.	DATE

SCALE 0 40 1"=40'

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 052936 ENGINEER BRITTANY N GROOME
Signed by: Brittany Groome
1E09340E1D94484...
09/11/2026
SIGNATURE DATE

SIG. INVENTORY NO. 06-1309