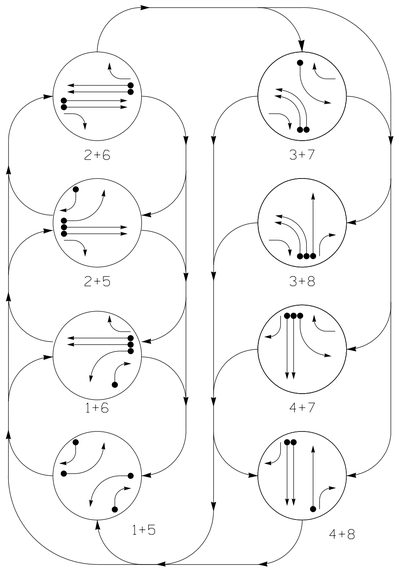
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PROJECT REFERENCE NO.	SHEET NO.
U-3422B	Sig-7.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

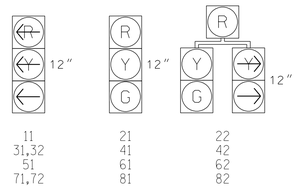
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 1+5	1+6	2+5	2+6	3+7	3+8	4+7	4+8	FLASH
11	←	←	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
21	R	R	G	G	R	R	R	R	R
22	R	R	G	G	R/→	R/→	R	R	R
31,32	~~R~~	~~R~~	~~R~~	~~R~~	←	←	~~R~~	~~R~~	~~R~~
41	R	R	R	R	R	R	G	G	R
42	R/→	R	R/→	R	R	R	G	G	R
51	←	~~R~~	←	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~
61	R	G	R	G	R	R	R	R	R
62	R	G	R	G	R/→	R	R/→	R	R
71,72	~~R~~	~~R~~	~~R~~	~~R~~	←	←	~~R~~	~~R~~	~~R~~
81	R	R	R	R	R	G	R	G	R
82	R/→	R/→	R	R	R	G	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.

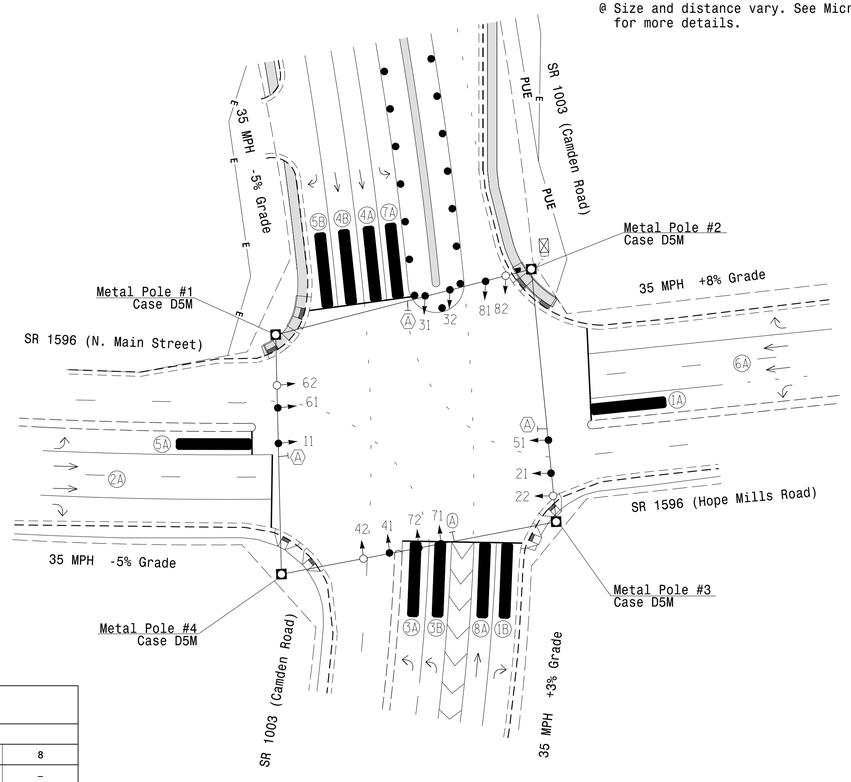


MAXTIME DETECTOR INSTALLATION CHART

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		
1A	6X40	0	**	X	1	-	-	X	-	X	-	**
1B	6X40	0	**	X	1	15.0	-	X	-	X	-	**
2A	@	@	**	X	2	-	-	X	-	X	-	**
3A	6X40	0	**	X	3	-	-	X	-	X	-	**
3B	6X40	0	**	X	3	-	-	X	-	X	-	**
4A	6X40	0	**	X	4	-	-	X	-	X	-	**
4B	6X40	0	**	X	4	-	-	X	-	X	-	**
5A	6X40	0	**	X	5	-	-	X	-	X	-	**
5B	6X40	0	**	X	5	15.0	-	X	-	X	-	**
6A	@	@	**	X	6	-	-	X	-	X	-	**
7A	6X40	0	**	X	7	-	-	X	-	X	-	**
8A	6X40	0	**	X	8	-	-	X	-	X	-	**

** Microwave Detection Zone

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



MAXTIME TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	7	8
Walk *	–	–	–	–	–	–	–	–
Ped Clear	–	–	–	–	–	–	–	–
Min Green *	7	12	7	7	7	12	7	7
Passage *	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Max 1 *	15	90	15	20	15	90	15	20
Yellow Change	3.0	4.2	3.0	4.2	3.1	4.2	3.1	4.2
Red Clear	3.7	2.9	3.3	2.4	3.8	2.9	3.3	2.4
Added Initial *	–	–	–	–	–	–	–	–
Maximum Initial *	–	–	–	–	–	–	–	–
Time Before Reduction *	–	–	–	–	–	–	–	–
Time To Reduce *	–	–	–	–	–	–	–	–
Minimum Gap	–	–	–	–	–	–	–	–
Advance Walk	–	–	–	–	–	–	–	–
Non Lock Detector	X	–	X	X	X	–	X	X
Vehicle Recall	–	MIN RECALL	–	–	–	MIN RECALL	–	–
Dual Entry	–	–	–	–	–	–	–	–

* 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.

Microwave Detection

	2A			6A		
FUNCTION	Sensor 1			Sensor 2		
Channel	1			1		
Phase	2			6		
Direction of Travel	NB			SB		
Type	Priority			Priority		
Level	1	2	QUEUE	1	2	QUEUE
Discovery Zone (ft)	>= 50	< 750	-	>= 50	< 750	-
Range (ft)	900-100	600-100	150-100	900-100	600-100	150-100
Enable Speed	Y	Y	Y	Y	Y	Y
Speed Range (mph)	35-100	35-100	1-35	35-100	35-100	1-35
Enable Estimated Time of Arrival	Y	Y	N	Y	Y	N
Estimated Time of Arrival (sec)	2.5-10.0	2.5-6.5	-	2.5-10.0	2.5-6.5	-

8 Phase
Fully Actuated
D06-03_Hope Mills

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. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Reposition existing signal heads numbered 21,41,61 and 81.
6. Set all detector units to presence mode.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. See traffic control plans for stop line locations.
9. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve desired detection.
10. Disconnect and bag existing head 71.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
12. Install Department supplied cell modem inside the cabinet. Contact the Division 6 Traffic Engineer at 910-364-0606 to request the cell modem. Allow 8 weeks lead time before anticipated deployment.
13. Install new ethernet edge switch inside the cabinet.

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	
	2-in Underground Conduit	
N/A	Right of Way	
	Directional Arrow	
PUE	Proposed Utility Easement	N/A
	Non-Intrusive Detection Zone	
	Construction Zone	N/A
	Construction Zone Drums	N/A
N/A	Construction Easement	E
	Type III Barricade	N/A
(A)	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	(A)

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

Plans Prepared By:

DRMP

DRMP, Inc.
8210 University Executive Park Dr, Suite 220
Charlotte, NC 28262
NC License No. P-1524 (704) 549-4260

Signal Upgrade
Temporary Design 1 - (TMP Phase II)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SR 1003 (Camden Road)
at
SR 1596(N. Main St./Hope Mills Rd.)

Division 6 Cumberland County Hope Mills

PLAN DATE:	October 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 1E09340E1084484...
10/09/2026
SIGNATURE DATE

SIG. INVENTORY NO. 06-0357TI