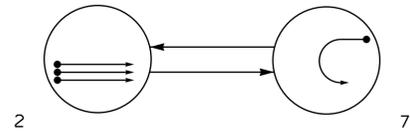


PHASING DIAGRAM

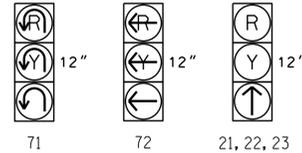


PHASING DIAGRAM DETECTION LEGEND
 ● ← DETECTED MOVEMENT
 ○ ← UNDETECTED MOVEMENT (OVERLAP)
 - - ← UNSIGNALIZED MOVEMENT
 - - - - ← PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	2	7	FLASH
21, 22, 23	↑	R	R
71	↑R	↑	↑R
72	↑R	↑	↑R

SIGNAL FACE I.D.

All Heads L.E.D.

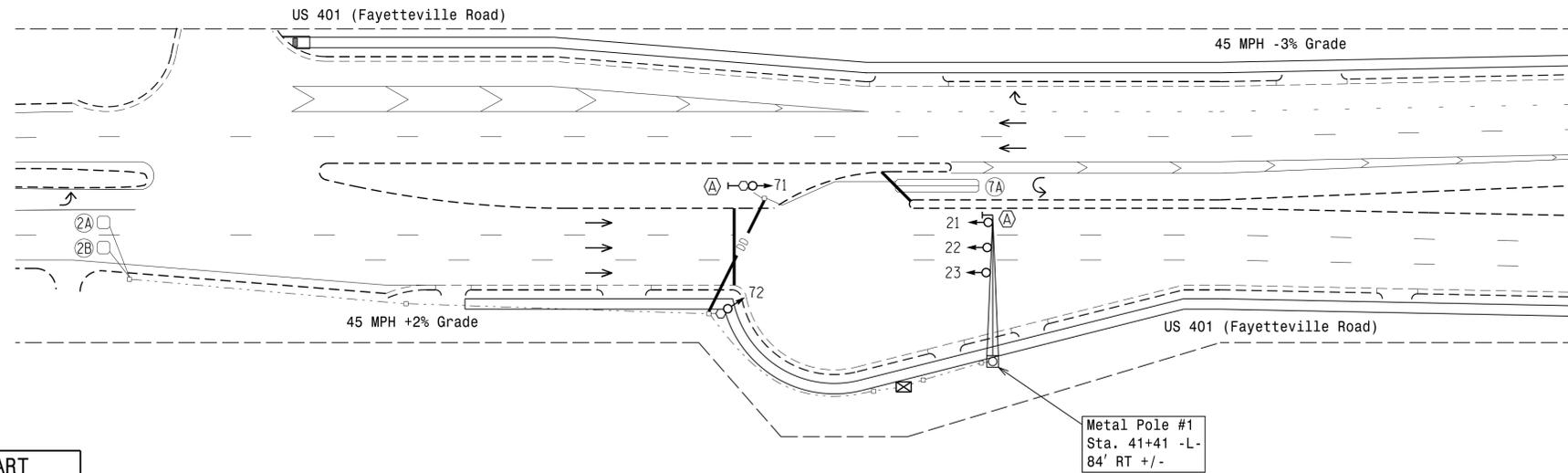


INDUCTIVE LOOPS										DETECTOR PROGRAMMING									
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	EXISTING	ASSIGNED PHASE	TIMING		OPERATION MODE							STATUS			
							DELAY	EXTEND (STRETCH)	VEHICLE	PEDESTRIAN	T CALL	STOP A	STOP B	PROTIPER LEFT	PROTIPER THROUGH AND	SWITCH	SYSTEM LOOPS	NEW	EXISTING
2A	6X6	5	300	X	-	2	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	X	-
2B	6X6	5	300	X	-	2	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	X	-
7A	6X40	2-4-2	0	X	-	7	- SEC.	- SEC.	X	-	-	-	-	-	-	-	-	X	-

2 Phase Fully Actuated (Raleigh Signal System)

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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Program phase 3 as a dummy phase for Ring 1.



FEATURE	PHASE		
	2	3	7
Min Green *	12	7	7
Passage Gap *	6.0	-	2.0
Maximum Green *	90	30	30
Yellow Change	4.3	3.0	3.0
Red Clear	1.3	2.1	2.1
Walk *	-	-	-
Pedestrian Clear	-	-	-
Added Initial *	1.5	-	-
Maximum Initial *	34	-	-
Time Before Reduction *	15	-	-
Time To Reduce *	30	-	-
Minimum Gap	3.0	-	-
Recall Mode	MIN RECALL	-	-
Vehicle Call Memory	LOCK	-	NON-LOCK
Dual Entry	-	-	-
Simultaneous Gap	ON	ON	ON

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

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
↑ Sign	↑ N/A
□ Pedestrian Signal Head	□ N/A
○ Signal Pole with Guy	○ Signal Pole with Guy
○ Signal Pole with Sidewalk Guy	○ Signal Pole with Sidewalk Guy
⊗ Inductive Loop Detector	⊗ Inductive Loop Detector
⊠ Controller & Cabinet	⊠ Controller & Cabinet
□ Junction Box	□ Junction Box
- - - 2-in Underground Conduit	- - - 2-in Underground Conduit
N/A Right of Way	N/A Right of Way
→ Directional Arrow	→ Directional Arrow
○ Metal Pole with Mastarm	○ Metal Pole with Mastarm
○ Type II Signal Pedestal	○ Type II Signal Pedestal
- - - Directional Drill	- - - Directional Drill
⊗ No Left Turn Sign (R3-2)	⊗ No Left Turn Sign (R3-2)

New Installation

	US 401 NB (Fayetteville Road) at U-Turn South of SR 1006 (Old Stage Road)		
	Division 5 Wake County Raleigh	PLAN DATE: February 2025	
PREPARED BY: J.A. Lohr	REVIEWED BY:	DATE: 03/27/2025	DATE:
SCALE: 1" = 40'	REVISIONS:	INIT. DATE:	DATE:

27-MAR-2025 06:18 S:\IT\GIS\UMTS\Sig\Main\Signal Design\Central Reg\on401v 5\U-5302\2025 Update\051783_L1g_dsn_2025mdd-dgn Jalohr

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 05-1783