

DEFAULT PHASING TABLE OF OPERATION						
		PHA	ASE			
SIGNAL FACE	Ø2+5	Ø2+6	Ø 4	FLANT		
21, 22	G	G	R	Y		
41	R	R	G	R		
42	R	R	G	R		
51	ł	F	₹R	₹¥		
61	R	G	R	Y		
62	R	G	R	Y		

ALTERNATE PHASING DIAGRAM Ø4 Ø2+5

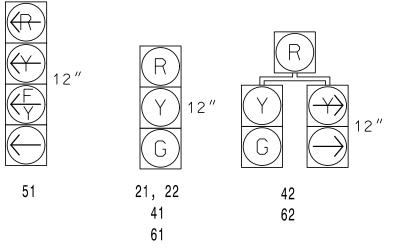
Ø2+6

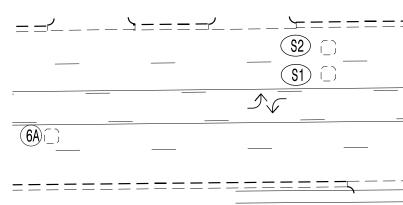
PHASING DIAGRAM DETECTION LEGEND ◄ ● DETECTED MOVEMENT

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◄	UNDETECTED MOVEMENT (OVERLAP)
\blacktriangleleft — —	UNSIGNALIZED MOVEMENT
$\leftarrow >$	PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.







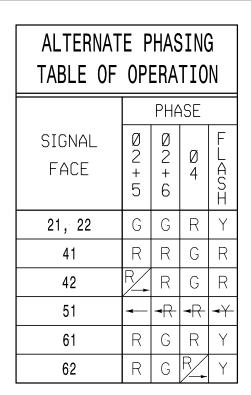
Disconnect Existing Loo

TIMING CHART							
	PHASE						
FEATURE	2	4	5	6			
Min Green *	12	10	7	12			
Walk *	-	_	-	-			
Ped Clear	-	_	-	-			
Veh. Extension *	6.0	2.0	2.0	6.0			
Max 1 *	45	30	15	45			
Yellow	4.6	3.0	3.0	4.6			
Red Clear	2.1	3.3	2.6	2.1			
Red Revert	2.0	2.0	2.0	2.0			
Actuations B4 Add *	-	-	-	_			
Seconds /Actuation *	2.5	_	-	2.5			
Max Initial *	34	_	-	34			
Time Before Reduction *	15	-	-	15			
Time To Reduce *	30	-	-	30			
Minimum Gap	3.0	-	-	3.0			
Locking Detector	Х		-	X			
Recall Position	MIN RECALL	_	-	MIN RECALI			
Dual Entry	-	-	-	-			
Simultaneous Gap	Х	Х	Х	Х			

* 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.

DETECTOR INSTALLATION CHART												
	DETECTOR				PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	ТҮРЕ	SYSTEM LOOP	NEW CARD
2 A	6 X 6	300	EXIST	-	2	Yes	-	-	Х	Ν	-	Х
4 A	6 X 4 0	0	2 - 4 - 2	-	4	Yes	-	-	-	Ν	-	Х
۲ ۸	6 Y 4 0		0 4 0		5	Yes	-	10 *	-	N	-	Х
5 A	6 X 4 0	0	2 - 4 - 2		2 #	Yes	-	N	-	G	-	Х
5 B	6 X 4 0	0	2 - 4 - 2	-	5	Yes	-	15	-	N	-	Х
6 A	6 X 6	300	EXIST	-	6	Yes	-	_	Х	N	-	Х
S-1	6 X 6	+ 3.20	EXIST	-	SYS	Yes	-	-	-	Ν	Х	Х
S-2	6 X 6	+ 3 2 0	EXIST	-	SYS	Yes	_	-	-	Ν	Х	Х

* Reduce delay to 3 sec. during Alternate Phasing operation. # Disable Phase call for loop during Alternate Phasing operation.



					— Disconnect & Abandon Existing Loop 2B
NC 274 (Union Road) =====≠`============================			45 MPH -1% Grade	======	
	$A \rightarrow 21$ $P \rightarrow 51$	41 42 61			
				 load)	= = = = = = = = = = = = = = = = = = = =
45 MPH -1% Grade : & Abandon — .oop 6B			45 MPH		
		SR 2416 (Robin	· ` `. `4 ₀	~	
		⁵ 02n	son Road)		<u>.</u>

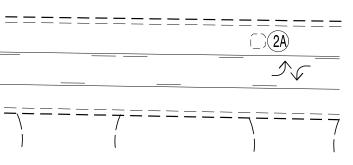


PROJECT REFERENCE NO. SHEET NO. C-5703 Sig.72.0

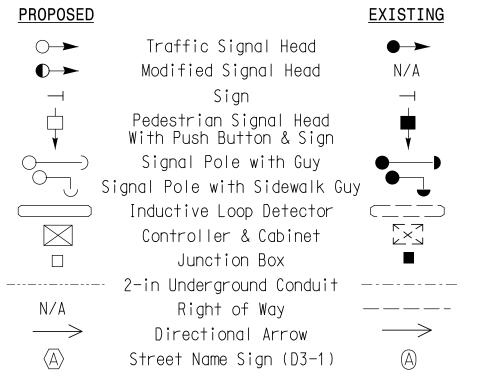
3 Phase Fully Actuated w/ Alternate Phasing Operation Gastonia Signal System

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Phase 5 may be lagged.
- 4. Set all detector units to presence mode.
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. Pavement markings are existing.
- 7. The City Engineer or their representative will determine the hours of use for each phasing plan.
- 8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- 9. Install new cabinet on the existing cabinet foundation. 10. All new cabinets and base extenders shall be black in color.
- See Project Special Provisions for details.
- 11. Loop 4B has been relabeled to 5B.
- 12. City of system data: Controller Asset #0310.



LEGEND



Signal Upgrade		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared For: Mobility and NORTH CARD	NC 274 (Union Road) at SR 2416 (Robinson Road) Division 12 Gaston County Gastonia PLAN DATE: May 2021 REVIEWED BY: SL Phillips	SEAL 044434
750 N.Greenfield Pkwy,Garner,NC 27529	PREPARED BY: SP Pennington REVIEWED BY: KP Baumann	DocuSigned by:
0 SCALE 40	REVISIONS INIT. DATE	Ken Barran 3/11/2022
		SIGNATURE DATE
1 "=40'		SIG. INVENTORY NO. 12-0310