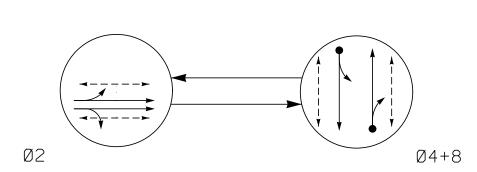
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

✓ DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT ← − → PEDESTRIAN MOVEMENT

TABLE OF OPERATION						
	Р	HAS	E			
SIGNAL FACE	Ø 2	Ø 4 + 8	FLASH			
21, 22	G	R	Υ			
41, 42	R	G	R			
81, 82	R	G	R			
P21, P22, P23, P24	W	DW	DRK			
P41, P42	DW	W	DRK			
P81, P82	DW	W	DRK			

TABLE OF OPERATION			
	Р	HAS	E
SIGNAL FACE	Ø 2	Ø4+8	上し母のエ
21, 22	G	R	Y
41, 42	R	G	R
81, 82	R	G	R
21, P22, P23, P24	W	DW	DRK
P41, P42	DW	W	DRK
P81, P82	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

P21,P22

P23,P24

P41,P42

P81,P82

21,22

41,42

81,82

DETECTOR INSTALLATION CHART												
DETECTOR				PROGRAMMING								
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
4 A	6 X 4 0	+.5	2 - 4 - 2	-	4	Yes	-	3	-	N	_	Χ
8 A	6 X 4 0	+5	2 - 4 - 2	-	8	Yes	-	10	-	N	-	Χ

		'\'\'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
	1/ 1/ 1/ 1/ 2/				
	MPH +3%	West FI			
	Install without Push Button—		Install without Push	Button . with Push Button	
	US 321 (Chester Street)		P23		
		P24 //		=======================================	========
=======================================	=======================================	P42 81 82	P81 A		
	\longrightarrow				
		42 41	22	Install with Push Button	
	=	E 42 C 41	P82 = = =		
		P41 P22	P21	US 321 (Chester Street)	
	Install without Push	Button		Install without Push Button	
		West II	·		
		Fifth			
		Z \ \ \ \ \	®A // \ Rad		

2 Phase Semi-Actuated Gastonia Signal System

<u>NOTES</u>

- 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. Set all detector units to presence mode.
- 4. In the event of loop replacement, refer to the current ITS and Signal Design Manual and submit a Plan of Record to the Signal Design Section.
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls on phase 4 and phase 8.
- 7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 8. Pavement markings are existing.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- 10. Install new cabinet on the existing cabinet foundation.
- 11. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- 12. All proposed pedestrian signal heads shall be black in color.
 See Project Special Provisions for details.
- 13. All proposed pedestrian pedestals and pushbutton posts shall be black in color. See Project Special Provisions for details.
- 14. City system data: Controller Asset #0071.

LEGEND

<u>PROPOSE</u>	<u>:D</u>	<u>EXISTING</u>
\bigcirc	Traffic Signal Head	
O ->	Modified Signal Head	N/A
\dashv	Sign	\dashv
†	Pedestrian Signal Head With Sign	•
	Type II Signal Pedestal	
<u> </u>) Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	⊃ Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
$\langle \Delta \rangle$	Combined Through and Left Arrov Sign (R3-6L)	N (A)
$\langle \mathbb{B} \rangle$	Combined Through and Right Arro Sign (R3-6R)	w B
$\langle \mathbb{C} \rangle$	Street Name Sign (D3-1)	
$\langle \mathbb{D} \rangle$	No Left Turn Sign (R3-2)	
E	No Right Turn Sign (R3-1)	E

INIT. DATE

TIMING CHART							
	PHASE						
FEATURE	2	4	8				
Min Green *	10	7	7				
Walk *	4	4	4				
Ped Clear	8	9	9				
Veh. Extension *	-	2.0	2.0				
Max 1 *	45	25	25				
Yellow	4.3	3.1	3.1				
Red Clear	1.1	1.7	1.7				
Red Revert	2.0	2.0	2.0				
Actuations B4 Add *	-	-	-				
Seconds /Actuation *	-	-	-				
Max Initial *	-	-	-				
Time Before Reduction *	-	-	-				
Time To Reduce *	-	-	-				
Minimum Gap	-	-	-				
Locking Detector	-	-	-				
Recall Position	PED/MAX	-	-				
Dual Entry	-	X	X				

* 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

PLANS PREPARED IN THE OFFICE OF:

Kimley >>> Horn NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 Green for all other phases should not be lower than 4 seconds. (919) 677-2000

Signal Upgrade 750 N.Greenfield Pkwy,Garner,NC 27529 PREPARED BY: DM Curri

US 321 (Chester Street) West Fifth Avenue

Gaston County May 2021 REVIEWED BY: SL Phillips REVIEWED BY: KP Baumann

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED