

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMEN \leftarrow --> PEDESTRIAN MOVEMENT

TABLE OF OPERATION SIGNAL FACE I.D. All Heads L.E.D. PHASE SIGNAL

FACE

21

22, 23

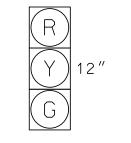
41, 42

61, 62

35 MPH -1% Grade

P61, P62 | W | DW | DRK

()	12"
(F)	



22, 23

41, 42

61, 62



P61,	P62

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 5 0	0	2 - 4 - 2	-	4	Yes	-	1.0	-	N	-	Х

US 29-74-NC 274 (W. Franklin Boulevard)

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US 29-74-NC 274 (W. Fra	unklin Poulovand)				
US 29-14-NO 214 (W. FIG	ilikitii boutevalu)		35 MPH +1% Grade		
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	TIMIN	G CHAR	Т			
	PHASE					
FEATURE	2	4	6			
Min Green *	10	7	10			
Walk *	_	-	4			
Ped Clear	_	-	8			
Veh. Extension *	-	1.0	-			
Max 1 *	60	30	60			
Yellow	3.9	3.0	3.9			
Red Clear	1.1	2.3	1.1			
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	MAX RECALL	-	PED / MAX			
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.

Signal Upgrade

PLANS PREPARED IN THE OFFICE OF:

NC License #F-0102

Raleigh, NC 27601

(919) 677-2000

Kimley » Horn

421 Fayetteville Street, Suite 600

US 29-74-NC 274 (Franklin Boulevard)

Whitesides Street Division 12 Gaston County REVIEWED BY: SL Phillips May 2021

<u>EXISTING</u>

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N/A

N/A

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750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: CF Davis REVIEWED BY: KP Baumann INIT. DATE 1"=20'

2 Phase Semi-Actuated

PROJECT REFERENCE NO.

C-5703

Sig.13.0

NOTES

Gastonia Signal System

- 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. Install new cabinet on a new cabinet foundation.
- 6. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- 7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 9. Pavement markings are existing.
- 10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- 11. Rewire all intersection equipment to new cabinet.
- 12. All proposed pedestrian pedestals shall be black in color. See Project Special Provisions for details.
- 13. All proposed pedestrian signal heads shall be black in color. See project Special Provisions for details.
- 14. City system data:

<u>PROPOSED</u>

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Controller Asset: #0037

Traffic Signal Head

<u>LEGEND</u>

Modified Signal Head Sign Type II Signal Pedestal Pedestrian Signal Head

With Sign Signal Pole with Guy Signal Pole with Sidewalk Guy

Inductive Loop Detector Controller & Cabinet Junction Box

2-in Underground Conduit Directional Drill N/A

Right of Way Directional Arrow Street Name Sign (D3-1)

> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

044434

Gastonia

3/11/2022 5DGZRQA86BGB44Z... DATE 12-0037 SIG. INVENTORY NO.

Simultaneous Gap