PROJECT REFERENCE NO. C-5703

Sig.133.

3 Phase

Fully Actuated

Gastonia Signal System

NOTES

and Structures" dated January 2018.

4. Set all detector units to presence mode.

of vehicles turning right on red.

7. Pavement markings are existing.

shall supersede these values.

11. City of system data:

<u>PROPOSED</u>

 \bigcirc

N/A

3. Phase 5 may be lagged.

2. Do not program signal for late night flashing

1. Refer to "Roadway Standard Drawings NCDOT" dated

January 2018 and "Standard Specifications for Roads

operation unless otherwise directed by the Engineer.

5. In the event of loop replacement, refer to the current

6. Locate new cabinet so as not to obstruct sight distance

8. Maximum times shown in timing chart are for free-run

9. Install new cabinet on the existing cabinet foundation.

Controller Asset #1718.

See Project Special Provisions for details.

LEGEND

Traffic Signal Head

Modified Signal Head

Sign

Pedestrian Signal Head

Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet Junction Box 2-in Underground Conduit

> Right of Way Directional Arrow

<u>EXISTING</u>

-

N/A

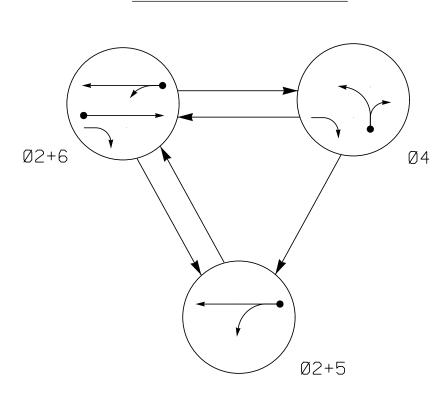
operation only. Coordinated signal system timing values

10. All new cabinets and base extenders shall be black in color.

ITS and Signal Design Manual and submit a

Plan of Record to the Signal Design Section.

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DETECTED MOVEMENT

← − → PEDESTRIAN MOVEMENT

TABLE OF	OPE	ERA [®]	TIO	N
	PHASE			
SIGNAL FACE	®N+15	ØN+6	Ø 4	止」位のエ
21	16	G	R	Y
22	G	G	R	Y
41, 42	R	R	G	R
61	R	G	R	Y
62	R	G	R/	Y

DETECTOR PROGRAMMING DISTANCE SIZE (FT) FROM EXTEND DELAY ADDED 7 TURNS PHASE STOPBAR TIME INITIAL 6X6 300 EXIST 2 Yes 6 X 6 0 4 A +5 2-4-2 4 Yes 6 X 3 0 + 5 2 - 4 - 2 4 B 4 Yes 5 Yes +5 2-4-2 5[.]A 6 X 4 0 **2** Yes 2 3 6X6 300 EXIST 6∙A

<u>-</u> No -

- | N | X | X

- No

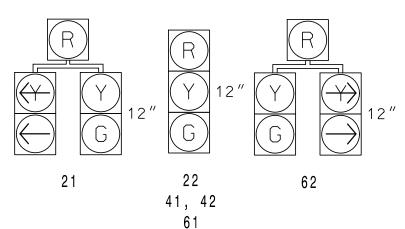
6X6 +150 6 X

6X6 +200 6 X

DETECTOR INSTALLATION CHART

SIGNAL FACE I.D.

All Heads L.E.D.



41, 42 61				shall s
				9. Install
				10. All ne See I
				11. City (
	NC 270 (No. 1)			
	NC 279 (New Hope Road)	45 mph +	2% Grade	
			<u> </u>	
	(\$1) 22 121	5A V		
	- - - - - - - - -	61 62		
	45 mph 00 0	62 NC 279 (Ne	w Hope Road)	
	45 mph -2% Grade			

TIMING CHART								
	PHASE							
FEATURE	2	4	5	6				
Min Green *	12	7	7	12				
Walk *	-	_	-	_				
Ped Clear	-	_	-	_				
Veh. Extension *	6.0	1.0	1.0	6.0				
Max 1 *	90	20	25	90				
Yellow	4.7	3.1	3.0	4.7				
Red Clear	1.4	2.6	2.1	1.4				
Red Revert	2.0	2.0	2.0	2.0				
Actuations B4 Add *	-	_	_	-				
Seconds /Actuation *	-	_	-	2.5				
Max Initial *	-	_	_	34				
Time Before Reduction *	15	_	_	15				
Time To Reduce *	40	_	_	40				
Minimum Gap	3.0	_	_	3.0				
Locking Detector	-	_	_	X				
Recall Position	MIN RECALL	_	-	MIN RECALL				
Dual Entry	-	_	-	-				
Simultaneous Gap	Х	Х	X	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.

Signal Upgrade

PLANS PREPARED IN THE OFFICE OF: Kimley » Horn

NC License #F-0102

Raleigh, NC 27601

(919) 677-2000

421 Fayetteville Street, Suite 600

NC 279 (New Hope Road)

Gaston County Gastonia REVIEWED BY: SL Phillips May 2021 750 N.Greenfield Pkwy,Garner,NC 27529 PREPARED BY: DM Curri REVIEWED BY: KP Baumann

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

Kem Barran 3/11/2022 SIG. INVENTORY NO.

SR 2436 (Stowe Road)