2 Phase

Fully Actuated

Gastonia Signal System

NOTES

1. Refer to "Roadway Standard Drawings

night flashing operation unless

3. Existing phases 2, 4, 6, and 8 have

4. Reposition all existing signals and

5. Set all detector units to presence

achieve proper alignment.

6. Locate new cabinet so as not to

turning right on red.

Provisions for details.

otherwise noted.

10. City system data:

<u>PROPOSED</u>

 $\bigcirc$ 

**0**->

 $\boxtimes$ 

N/A

N/A

"Standard Specifications for Roads

and Structures" dated January 2018.

otherwise directed by the Engineer.

and loops as needed to achieve the

span-mounted signs as necessary to

obstruct sight distance of vehicles

7. Pavement markings are existing unless

8. Maximum times shown in timing chart

values supersede these values.

are for free-run operation only. Coordinated signal system timing

9. All cabinets and base extenders shall

**LEGEND** 

Traffic Signal Head

Modified Signal Head

Sign Pedestrian Signal Head With Push Button & Sign 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

Guardrail

Curb Ramp Left Arrow "ONLY" Sign (R3-5L)

"YIELD" Sign (R1-2)

Street Name Sign

be black in color. See Project Special

Controller Asset #0007.

<u>EXISTING</u>

N/A

\_----

 $\longrightarrow$ 

<del>1</del> 1

 $\mathbb{C}$ 

SIG. INVENTORY NO. City-07

been changed to phases 8, 2, 4, and 6 respectively. Change all signal heads

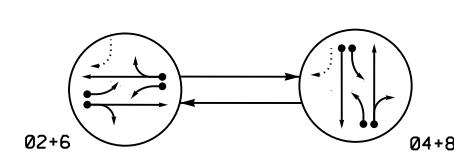
NCDOT" dated January 2018 and

2. Do not program signal for late

phasing shown.

mode.



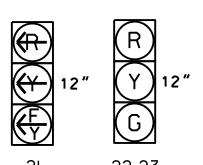


#### PHASING DIAGRAM DETECTION LEGEND

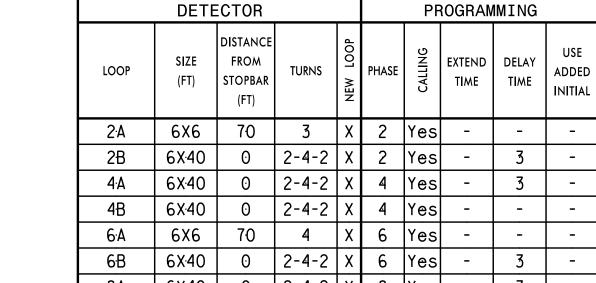
DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT PEDESTRIAN MOVEMENT

### TABLE OF OPERATION PHASE SIGNAL FACE 22,23 42,43 62,63 <del>-R -F -R</del> 81 82,83

#### SIGNAL FACE I.D. All Heads L.E.D.



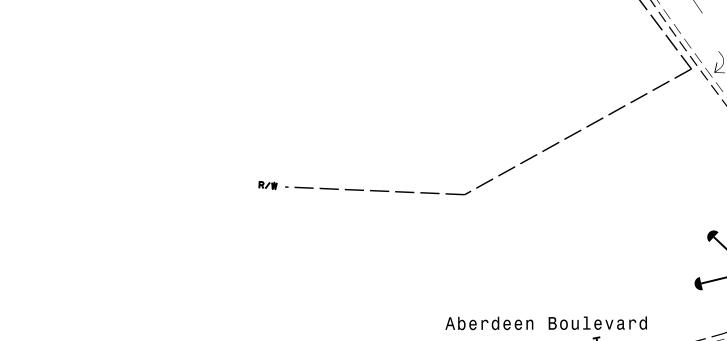




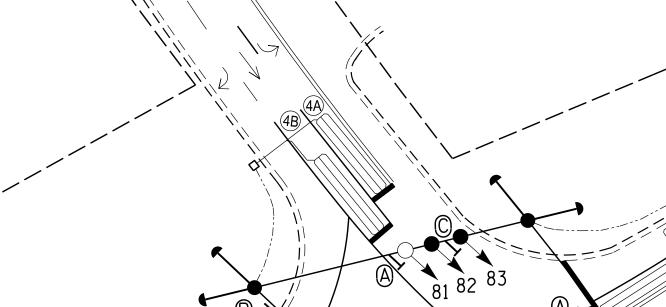
6X:40 0 | 2-4-2 | X | 8 | Yes | 0 2-4-2 X 8 Yes 6X:40

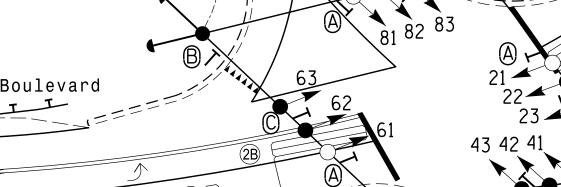
DETECTOR INSTALLATION CHART





35 MPH +2% Grade







A 81 82 8	
B 63	21 C ()
62	22 23 1/
<u>28</u> 61	43 42 41
> 2A	O A
	8A)
New 2070LX Controller and Cabinet on	
Existing Foundation	

TIMING CHART					
		PHASE			
FEATURE	2	4	6	8	
Min Green *	10	10	10	10	
Walk *	0	0	0	0	
Ped Clear	0	0	0	0	
Veh. Extension *	3.0	2.0	3.0	1.0	
Max 1 *	40	25	40	25	
Yellow	3.9	3.8	3.9	3.8	
Red Clear	1.4	2.5	1.4	2 <b>.</b> 5	
Red Revert	2.0	2.0	2.0	2.0	
Actuations B4 Add *	-	-	-	-	
Seconds /Actuation *	-	-	-	-	
Max Initial *	-	_	-	-	
Time Before Reduction *	-	-	-	-	
Time To Reduce *	-	-	-	-	
Minimum Gap	-	-	-	-	
Locking Detector	Х	-	Х	-	
Recall Position	VEH. RECALL	-	VEH. RECALL	-	
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 Green for all other phases should not be lower than 4 seconds

Signal Upgrade

# 181 S. South St. Gastonia, NC 28052

NC FIRM LICENSE No: P-0339 320 Executive Court Hillsborough, NC 27278 (919) 732–3883 (919) 732–6676 (FAX)

Prepared in the Office of:

1"=40'

Division 12 PLAN DATE:

Remount Road Gaston County Gastonia April 2021 REVIEWED BY: J. Smith **PREPARED BY:** M. Parker REVIEWED BY: E Sirgany INIT. DATE

## DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 018174

Edward W Sirgany 2/11/202

Aberdeen Boulevard