PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

 \leftarrow --> PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

All Heads L.E.D.

TABLE OF OPERATION

SIGNAL

FACE

22, 23

41, 42

62, 63

81, 82

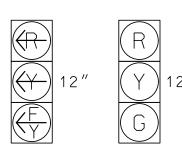
P61, P62

P81, P82

PHASE

~ | -| -| -|

v | Dw |DR



22,23 41,42 62,63

81,82

P81,P82

DETECTOR INSTALLATION CHART														
	DETE	ECTOR				F	PROGRA	AMMING	ત્રે					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD		
2·A	6 X 6	300	6	X	2	Yes	-	-	Χ	N	-	Χ		
2 B	6 X 6	300	6	X	2	Yes	_	_	Χ	N	_	Χ		
4 A	6 X 2 0	+10	EXIST	-	4	Yes	_	_	_	N	-	Χ		
6 A	6 X 6	300	6	X	6	Yes	-	_	Χ	N	-	Χ		
6 B	6 X 6	300	6	X	6	Yes	-	-	Χ	N	-	Χ		
8 A	6X60	0	2 - 4 - 2	-	8	Yes	-	-	_	N	-	Χ		
8-B	6X60	0	2 - 4 - 2	_	8	Yes	_	<u>-</u>	_	N	-	Χ		

-Disconnect & Abandon Existing SR 2466 Loop 6B 45 MPH -3% Grade (Garrison Boulevard) ====== 45 MPH -3% Grade SR 2466 (Garrison Boulevard) Disconnect & Abandon Existing -Loop 2B

TIMING CHART											
	PHASE										
FEATURE	2	4	6	8							
Min Green *	12	7	12	7							
Walk *	-	_	7	7							
Ped Clear	-	-	11	20							
Veh. Extension *	6.0	2.0	6.0	1.0							
Max 1 *	60	20	60	20							
Yellow	4.8	3.2	4.8	3.2							
Red Clear	2.3	3.5	2.3	3.5							
Red Revert	2.0	2.0	2.0	2.0							
Actuations B4 Add *	_	_	-	-							
Seconds /Actuation *	1.5	_	1.5	_							
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 RECALL	-							
Dual Entry	-	Χ	-	X							

Simultaneous Gap * 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 PLANS PREPARED IN THE OFFICE OF: Kimley » Horn NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601

(919) 677-2000

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

1"=40'

SR 2466 (Garrison Boulevard)

Churchill Drive

Division 12 Gaston County Gastonia REVIEWED BY: SL Phillips May 2021 REVIEWED BY: KP Baumann

044434

3/11/2022 DATE SIG. INVENTORY NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED

EXISTING

lower than 4 seconds.

PROJECT REFERENCE NO. C-5703 Sig.71.0

2 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.

10. Pavement markings are existing.

shall supersede these values.

pedestrian calls.

17. City system data:

PROPOSED

 \bigcirc

N/A

"Don't Walk" time only.

2. Do not program signal for late night flashing

1. Refer to "Roadway Standard Drawings NCDOT" dated

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

7. Omit "WALK" and flashing "DON'T WALK" with no

8. Program pedestrian heads to countdown the flashing

9. Remove existing Left Arrow "ONLY" Signs-(R3-5L).

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

12. Disconnect and abandon existing loops 2B and 6B. 13. Install new cabinet on the existing cabinet foundation.

15. Existing signal heads 21, 22, 61, and 62 have been relabeled to 22, 23, 62, and 63, respectively.

Controller Asset #0276.

LEGEND

Traffic Signal Head

Modified Signal Head Sign Pedestrian Signal Head With Push Button & Sign Type I Pushbutton Post 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 Right Arrow "ONLY" Sign (R3-5R) Street Name Sign (D3-1)

See Project Special Provisions for details.

See Project Special Provisions for details.

operation only. Coordinated signal system timing values

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

16. All proposed pedestrian signal heads shall be black in color.

ITS and Signal Design Manual and submit a Plan of Record to the Signal Design Section.

3. Reposition existing signal heads numbered 22, 23, 62, and 63.

January 2018 and "Standard Specifications for Roads