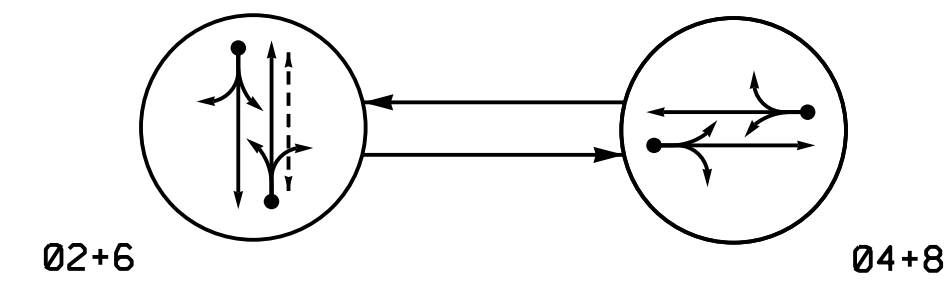


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND  
 ←● DETECTED MOVEMENT  
 ← UNDETECTED MOVEMENT (OVERLAP)  
 ← UN SIGNALIZED MOVEMENT  
 ← PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	02+6	04+8	FLASH
21,22	G	R	Y
41,42	R	G	R
61,62	G	R	Y
81,82	R	G	R
P21,P22	W	DW	DRK

DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	SYSTEM LOOP	NEW CARD
2A	6X6	60	Exist	-	2	Yes	-	-	-	-	X
4A	6X60	0	Exist	-	4	Yes	-	5	-	-	X
6A	6X6	70	Exist	-	6	Yes	-	-	-	-	X
8A	6X60	0	Exist	-	8	Yes	-	5	-	-	X

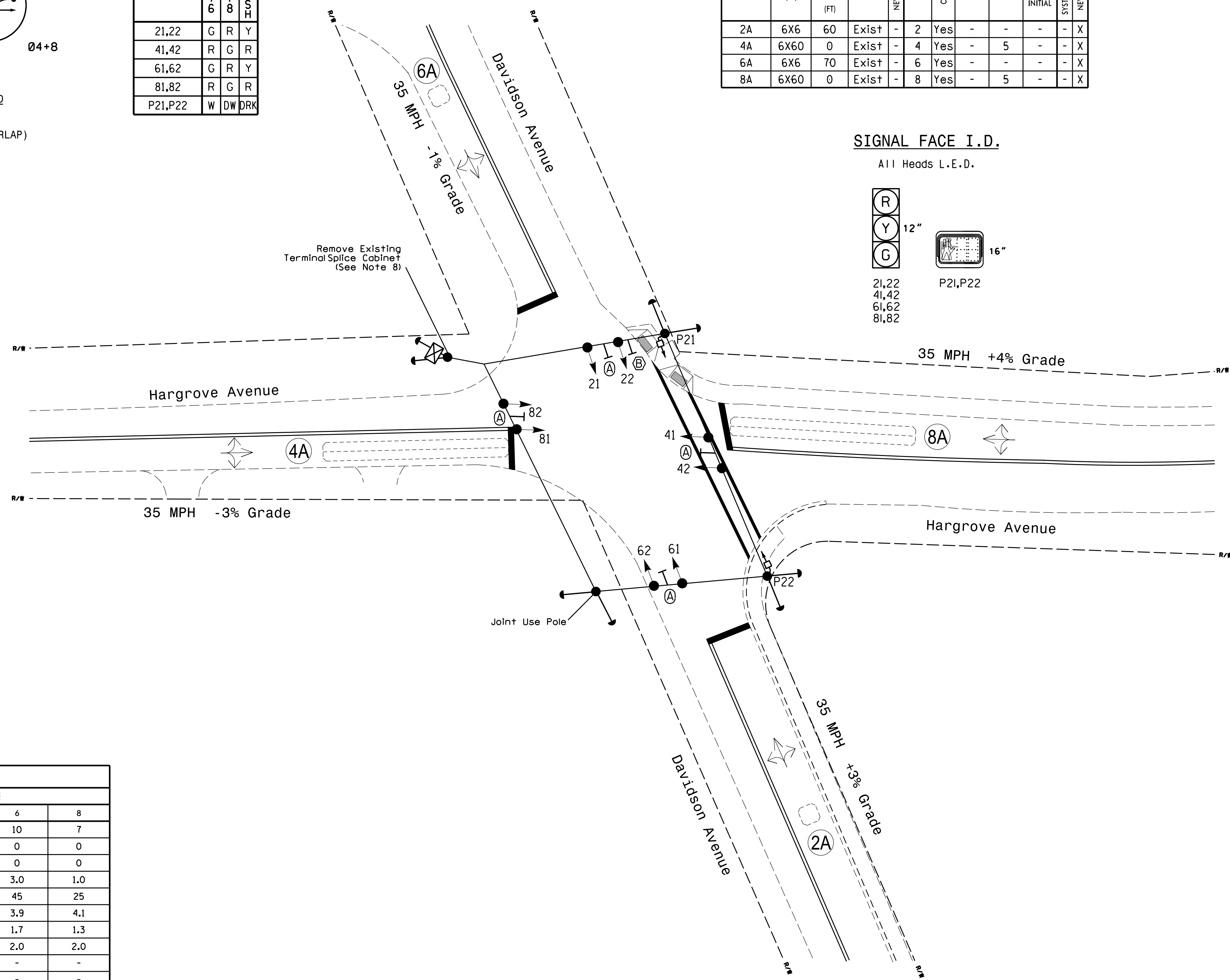
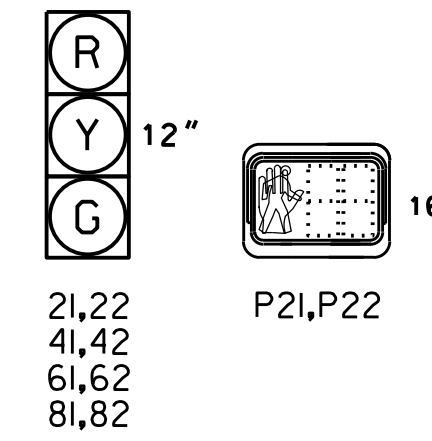
2 Phase Fully Actuated Gastonia Signal System

NOTES

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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
5. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Remove existing Terminal Splice Cabinet. Replace existing signal and lead-in cables as required to eliminate aerial splices.
9. Pavement markings are existing unless otherwise noted.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. All cabinets and base extenders shall be black in color. See Project Special Provisions for details.
12. City system data:  
Controller Asset #0013.

SIGNAL FACE I.D.

All Heads L.E.D.



FEATURE	PHASE			
	2	4	6	8
Min Green *	10	7	10	7
Walk *	0	0	0	0
Ped Clear	0	0	0	0
Veh. Extension *	2.5	1.0	3.0	1.0
Max 1 *	45	25	45	25
Yellow	3.7	4.1	3.9	4.1
Red Clear	2.4	1.3	1.7	1.3
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	X	-	X	-
Recall Position	VEH. RECALL	-	VEH. RECALL	-
Dual Entry	-	X	-	X
Simultaneous Gap	X	X	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.

PROPOSED	EXISTING
○	●
○	N/A
⊥	⊥
⊥	⊥
○	○
○	○
⊗	⊗
□	■
---	---
→	→
N/A	▲
Ⓐ	Ⓐ
Ⓑ	Ⓑ

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:  NC FIRM LICENSE No: P-0339 320 Executive Court Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	Prepared For:  181 S. South St. Gastonia, NC 28052	Davidson Avenue at Hargrove Avenue Division 12 Gaston County Gastonia PLAN DATE: May 2021 REVIEWED BY: J. Smith PREPARED BY: M. Parker REVIEWED BY: E. Sirgany	
SCALE 0 20 1"=20'	REVISIONS INIT. DATE	Date Signed by: Edward W. Sirgany 1/13/2022 DATE	SIG. INVENTORY NO. City-13