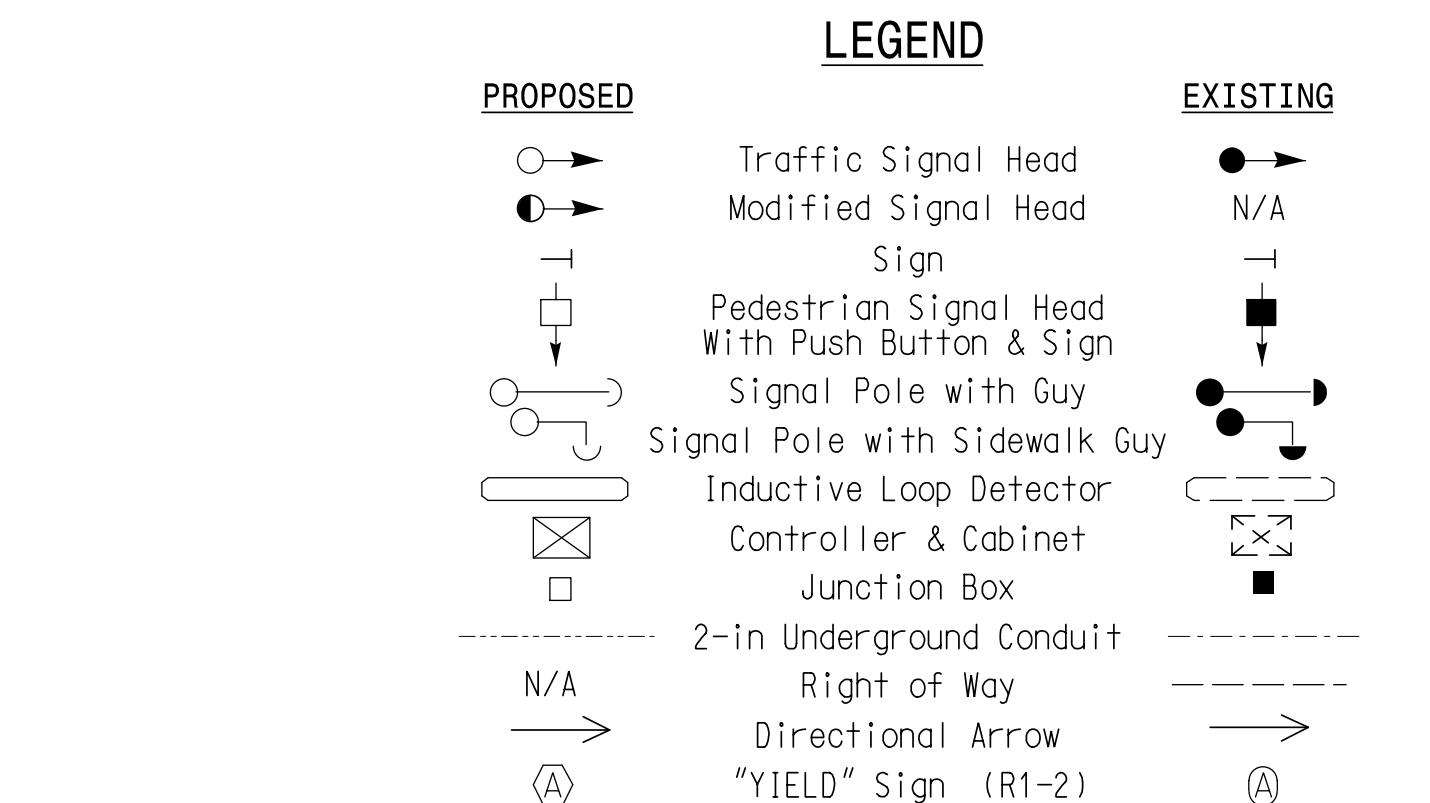
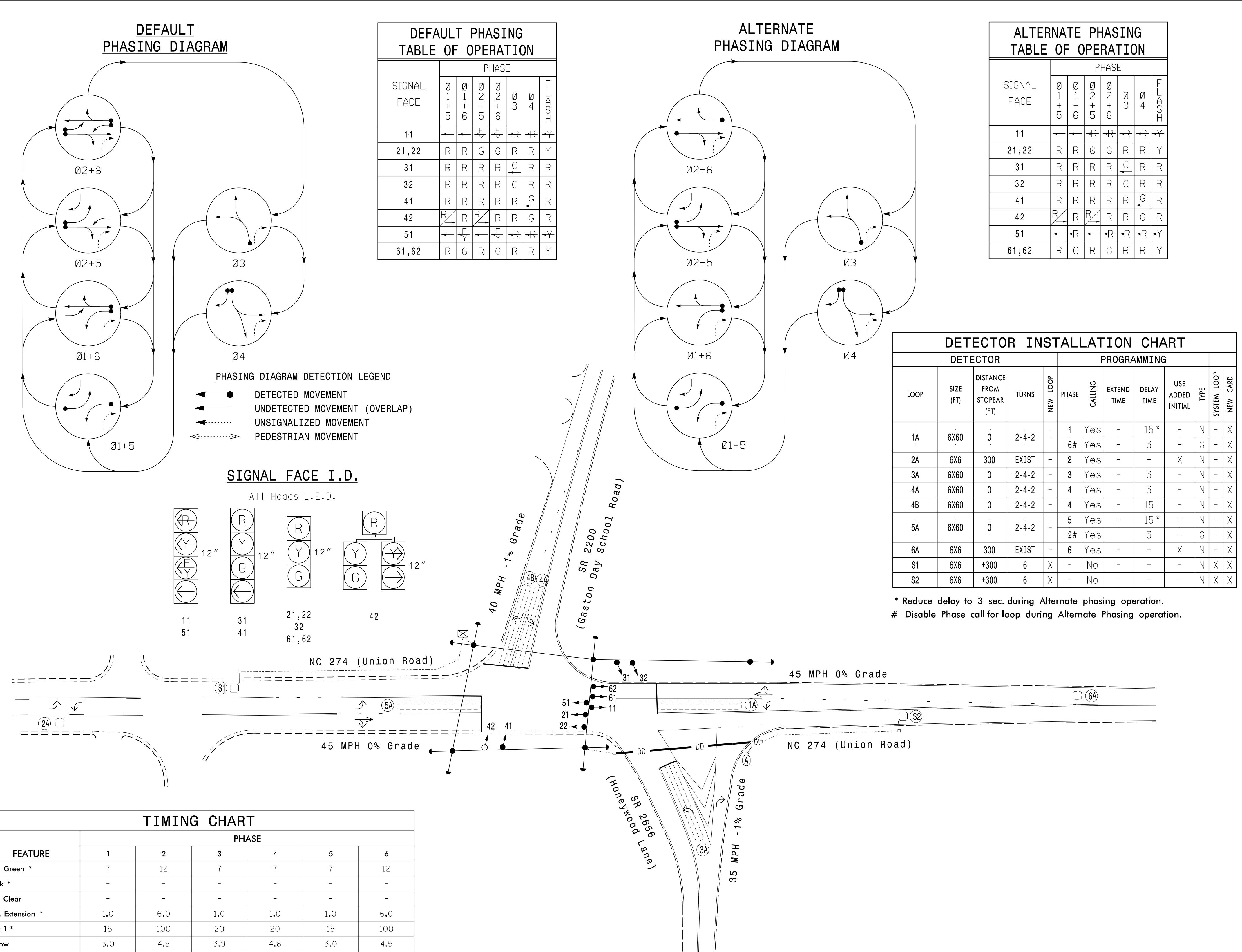


**6 Phase
Fully Actuated w/
Alternate Phasing Operation
Gaston Signal System**

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- The City Engineer or their representative will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- Install new cabinet on the existing cabinet foundation.
- All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
- City of system data:
Controller Asset #1304.



Signal Upgrade

Prepared For: Transportation Mobility and Safety Division Signal of Traffic Engineering Section	NC 274 (Union Road) at SR 2200(Gaston Day School Road) / SR 2656 (Honeywood Lane)	
Division 12	Gaston County	Gastonia
PLAN DATE: May 2021	REVIEWED BY: SL Phillips	
PREPARED BY: CF Davis	REVIEWED BY: KP Baumann	
REVISIONS INIT. DATE		
0 40 1"=40'		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
SEAL 044434 NORTH CAROLINA PROFESSIONAL ENGINEER KEVIN P. BAUMANN 3/11/2022 Signature DATE SIG. INVENTORY NO. 12-1304		

TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	1.0	6.0	1.0	1.0	1.0	6.0
Max 1 *	15	100	20	20	15	100
Yellow	3.0	4.5	3.9	4.6	3.0	4.5
Red Clear	1.1	1.9	3.2	1.7	1.4	1.9
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	2.5	-	-	-	2.5
Max Initial *	-	34	-	-	-	34
Time Before Reduction *	-	20	-	-	-	20
Time To Reduce *	-	35	-	-	-	35
Minimum Gap	-	3.0	-	-	-	3.0
Locking Detector	-	X	-	-	-	X
Recall Position	-	MIN RECALL	-	-	-	MIN RECALL
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	X	X	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.