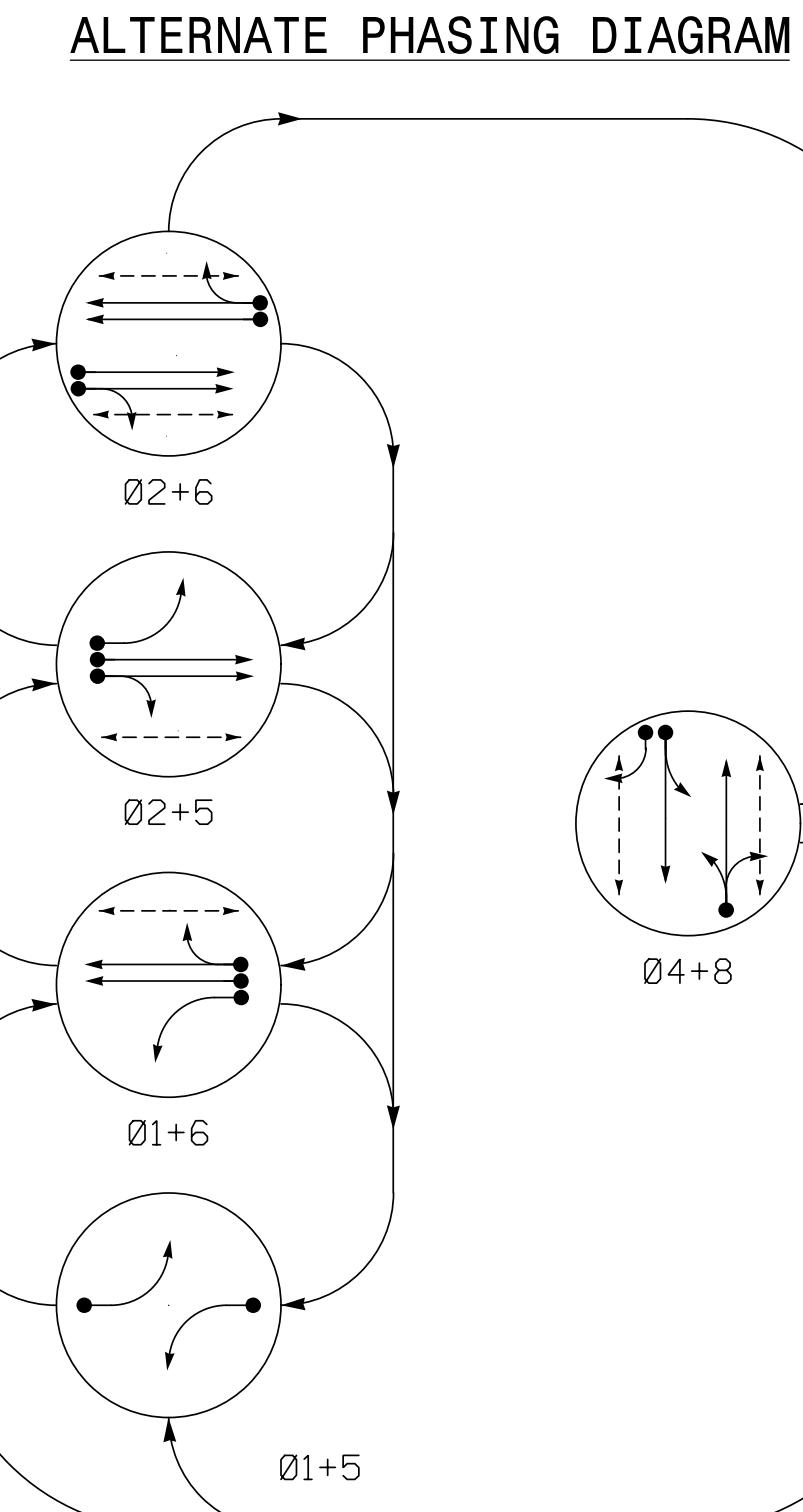


**DEFAULT PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE					
	0 1 5 6	0 1 6 5	0 2 5 6	0 2 4 8	0 2 4 8	FLASH
11	-	-	F-Y	R-Y	R-Y	
21, 22	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
51	-	F-Y	-	F-Y	R	Y
61, 62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK
P81, P82	DW	DW	DW	DW	W	DRK



**ALTERNATE PHASING TABLE OF OPERATION**

SIGNAL FACE	PHASE					
	0 1 5 6	0 1 6 5	0 2 5 6	0 2 4 8	0 2 4 8	FLASH
11	-	-	R	R	R	Y
21, 22	R	R	G	G	R	Y
41, 42	R	R	R	R	G	R
51	-	R	-	R	R	Y
61, 62	R	G	R	G	R	Y
81, 82	R	R	R	R	G	R
P21, P22	DW	DW	W	W	DW	DRK
P41, P42	DW	DW	DW	DW	W	DRK
P61, P62	DW	W	DW	W	DW	DRK
P81, P82	DW	DW	DW	DW	W	DRK

**DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING		TYPE	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL
1A	6X60	+5	2-4-2	-	1 Yes -	10*	-	N	- X
					6# Yes -	3	-	G	- X
2A	6X6	300	EXIST	-	2 Yes -	-	-	X	N - X
2B	6X6	300	EXIST	-	2 Yes -	-	-	X	N - X
4A	6X40	+3	2-4-2	-	4 Yes -	3	-	N	- X
4B	6X40	+3	2-4-2	-	4 Yes -	15	-	N	- X
5A	6X60	+5	2-4-2	-	5 Yes -	10*	-	N	- X
					2# Yes -	3	-	G	- X
6A	6X6	300	EXIST	-	6 Yes -	-	-	X	N - X
6B	6X6	300	EXIST	-	6 Yes -	-	-	X	N - X
8A	6X60	+5	2-4-2	-	8 Yes -	3	-	N	- X

\* Reduce Delay to 3 seconds during Alternate Phasing operation.

# Disable Phase call for loop during Alternate Phasing operation.

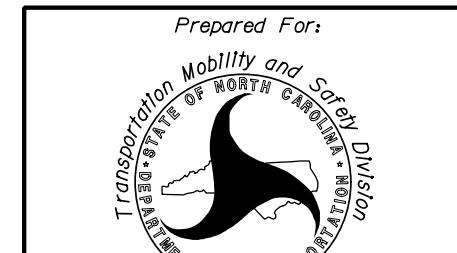
**5 Phase  
Fully Actuated w/  
Alternate Phasing Operation  
Gaston Signal System**

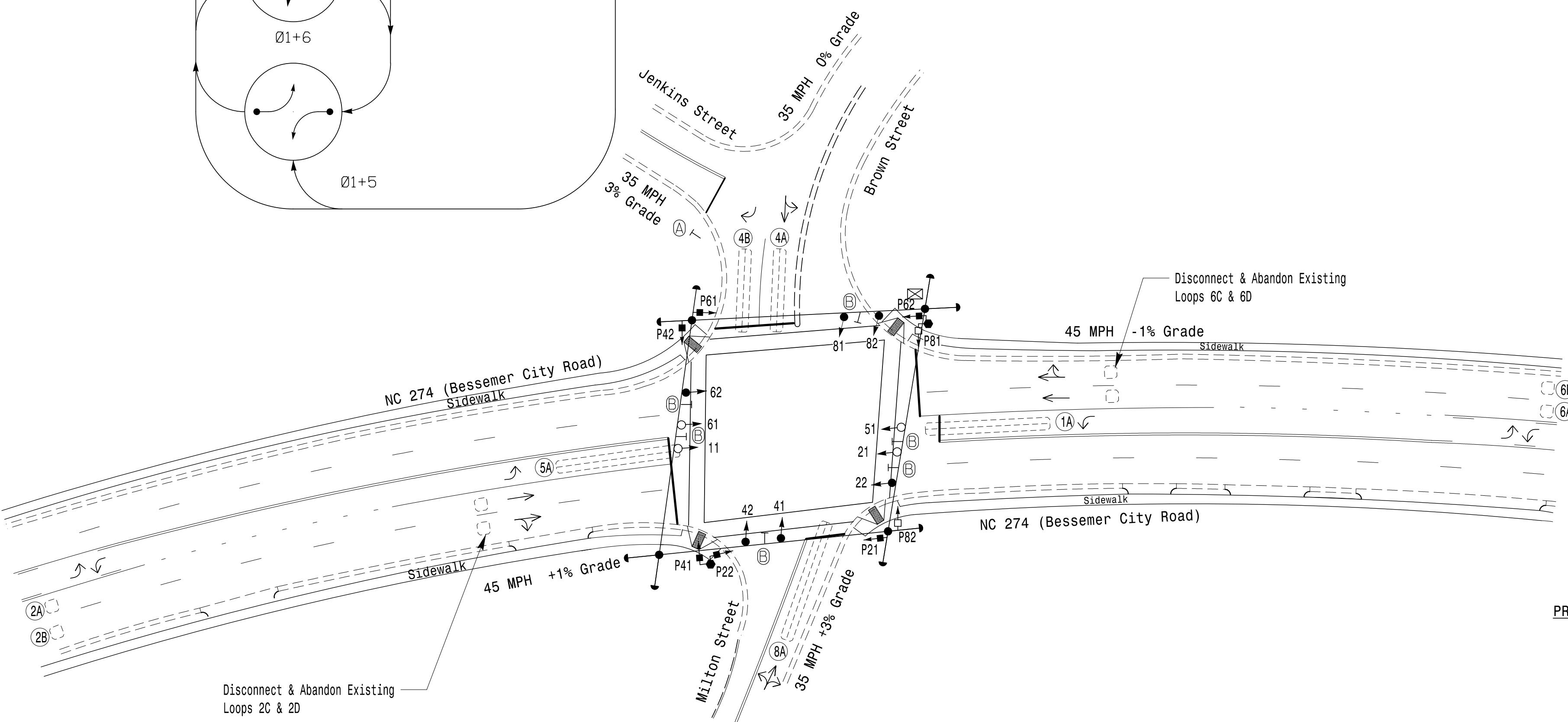
**NOTES**

- 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.
- 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.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 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.
- All proposed pedestrian signal heads shall be black in color. See Project Special Provisions for details.
- Disconnect and abandon existing loops 2C, 2D, 6C, and 6D.
- Reconnect lead-in cable to separate loops 2A, 2B, 6A, and 6B as shown.
- City system data:  
Controller Asset # 0264.

**LEGEND**

PROPOSED	EXISTING
○ →	Traffic Signal Head
● →	Modified Signal Head
—	Sign
□ ↓	Pedestrian Signal Head With Push Button & Sign
○ ↓	Type II Signal Pedestal
—	Signal Pole with Guy
○ —	Signal Pole with Sidewalk Guy
—	Inductive Loop Detector
—	Controller & Cabinet
—	Junction Box
—	2-in Underground Conduit
N/A	Right of Way
→	Directional Arrow
(A)	"STOP" Sign (R1-1)
(B)	Street Name Sign (D3-1)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 <b>NC 274 (Bessemer City Road) at Brown Street and Milton Street</b> Prepared For: Division 12 Gaston County Gastonia PLAN DATE: May 2021 REVIEWED BY: SL Phillips PREPARED BY: SP Pennington REVIEWED BY: KP Baumann NC License #F-0102 421 Fayetteville Street, Suite 600 Raleigh, NC 27601 (919) 677-2000 SCALE 0 40 1" = 40' REVISIONS INIT. DATE DocuSigned by:  Date: 3/11/2022 SIGNATURE DATE S10. INVENTORY NO. 12-0264	



**TIMING CHART**

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green *	7	12	7	7	12	7
Walk *	-	7	7	-	7	7
Ped Clear	-	20	22	-	23	21
Veh. Extension *	1.0	6.0	2.0	2.0	6.0	1.0
Max 1 *	15	55	25	15	55	25
Yellow	3.0	4.6	3.8	3.0	4.6	3.8
Red Clear	2.8	1.6	2.2	2.9	1.6	2.2
Red Revert	2.0	2.0	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	-	X	-	-	X	-
Recall Position	-	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	-	X	-	-	X
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.