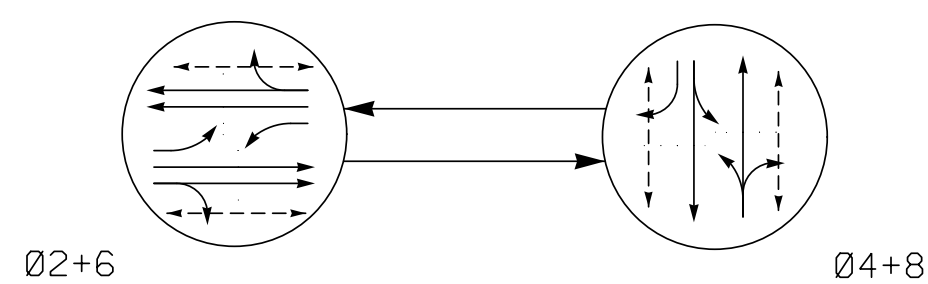


PHASING DIAGRAM

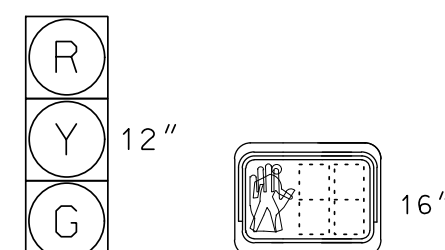


- PHASING DIAGRAM DETECTION LEGEND**
- ← DETECTED MOVEMENT
 - ← UNDETECTED MOVEMENT (OVERLAP)
 - ← UNSIGNALIZED MOVEMENT
 - ← → PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE		
	Ø 2+6	Ø 4+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
P41, P42	DW	W	DRK
P61, P62	W	DW	DRK
P81, P82	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



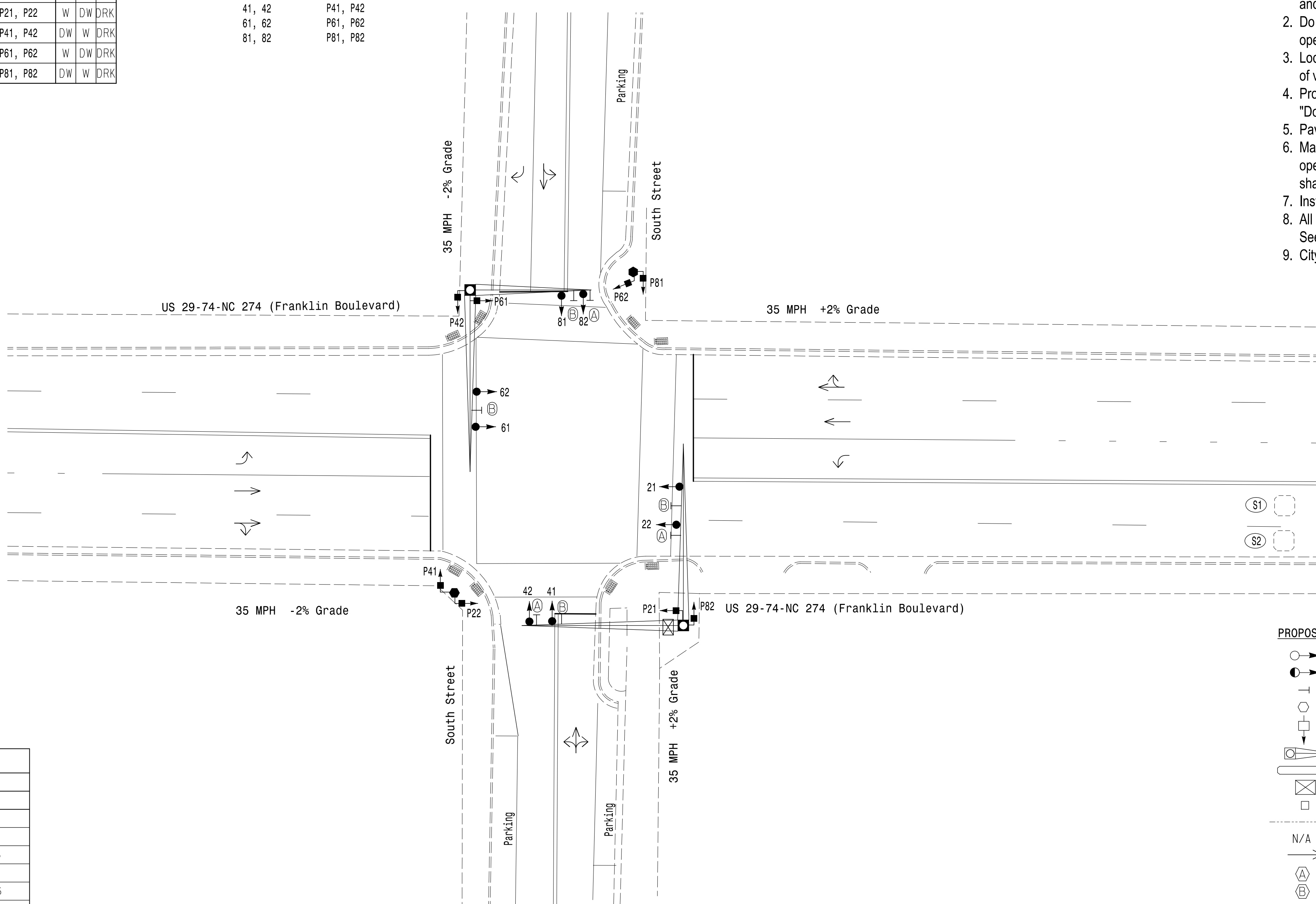
- | | |
|--------|----------|
| 21, 22 | P21, P22 |
| 41, 42 | P41, P42 |
| 61, 62 | P61, P62 |
| 81, 82 | P81, P82 |

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP	NEW CARD
S1	6X6	+250	EXIST	-	-	No	-	-	-	N	X	X
S2	6X6	+250	EXIST	-	-	No	-	-	-	N	X	X

2 Phase Pre-Timed 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. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
4. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
5. Pavement markings are existing.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
7. Install new cabinet on the existing cabinet foundation.
8. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
9. City system data:
Controller Asset: #0040



FEATURE	PHASE			
	2	4	6	8
Min Green *	10	7	10	7
Walk *	7	7	7	7
Ped Clear	10	15	10	15
Veh. Extension *	-	-	-	-
Max I *	45	25	45	25
Yellow	4.0	4.0	4.0	4.0
Red Clear	1.3	1.7	1.3	1.7
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	-	-	-	-
Recall Position	PED / MAX	PED / MAX	PED / MAX	PED / MAX
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

Signal Upgrade

PLANS PREPARED IN THE OFFICE OF:
Kimley-Horn
 NC License #F-0102
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601
 (919) 677-2000

	US 29-74-NC 274 (Franklin Boulevard) at South Street	
	Division 12 Gaston County Gastonia	PREPARED BY: SP Pennington REVIEWED BY: KP Baumann
	PLAN DATE: May 2021 REVISIONS: _____	DATE: _____

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Professional Engineer Seal for Kevin P. Baumann, License #044434.

Signature: Kevin P. Baumann
 Date: 3/11/2022
 Signature Title: _____
 Date: _____

SIG. INVENTORY NO. 12-0040

3/9/2022 11:13:14 AM Don @ i.e. Curf
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