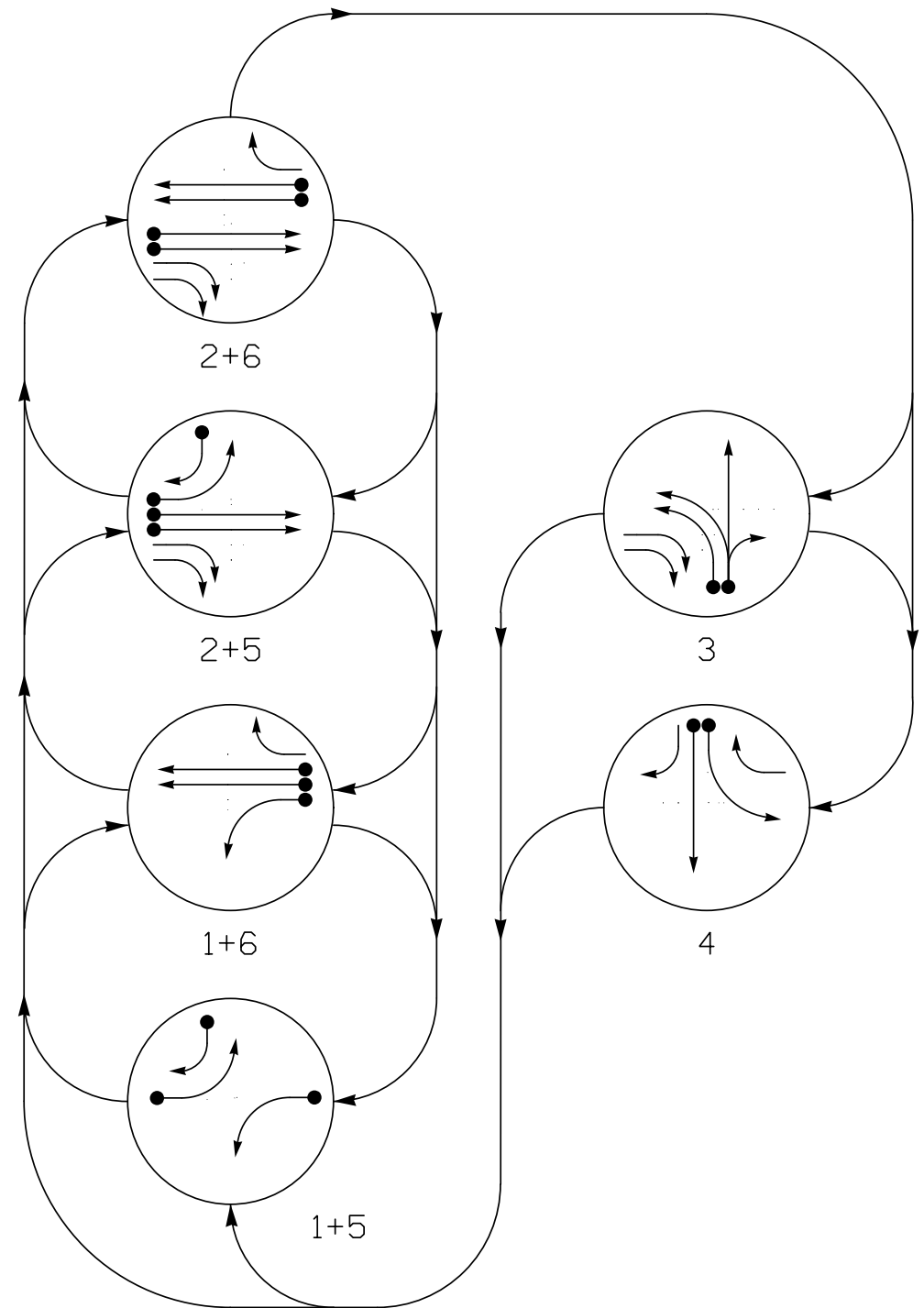


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

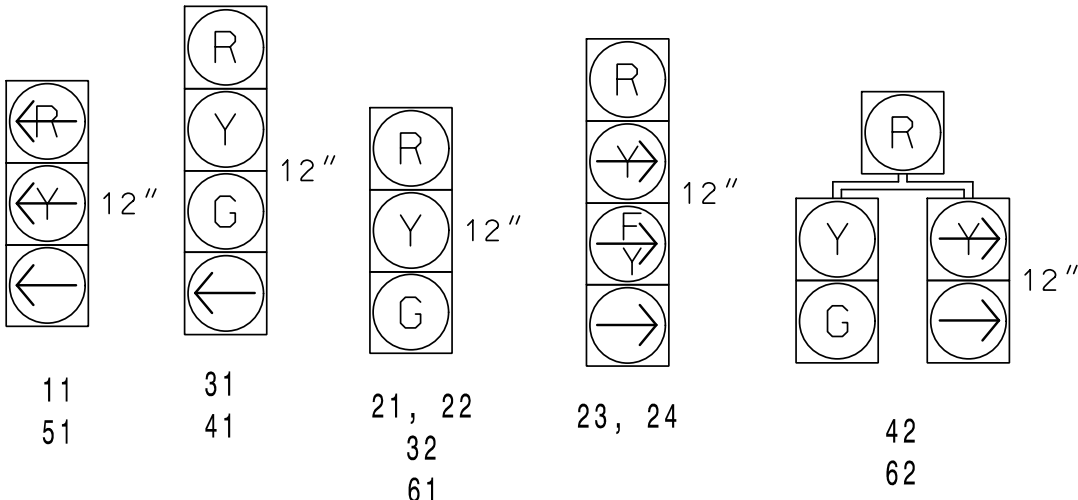
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE						
	1 + 5	1 + 6	2 + 5	2 + 6	3	4	F L S H
11	←	←	→	→	→	→	→
21, 22	R	R	G	G	R	R	R
23, 24	R	R	→	→	→	→	R
31	R	R	R	R	→	G	R
32	R	R	R	R	G	R	R
41	R	R	R	R	R	→	G
42	→	R	→	→	R	R	G
51	←	→	←	←	→	→	→
61	R	G	R	G	R	R	R
62	R	G	R	G	R	→	R

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	NEW CARD
1A	6X40	0	2-4-2	-	1	-	-	X	-	X	-
2A	6X6	300	Exist	-	2	-	-	X	X	X	-
2B	6X6	300	Exist	-	2	-	-	X	X	X	-
3A	6X40	0	2-4-2	X	3	-	-	X	-	X	-
3B	6X40	0	2-4-2	X	3	5.0	-	X	-	X	-
3C	6X15	0	2-4-2	X	3	15.0	-	X	-	X	-
4A	6X40	0	2-4-2	-	4	-	-	X	-	X	-
4B	6X40	0	2-4-2	-	4	-	-	X	-	X	-
5A	6X40	0	2-4-2	-	5	-	-	X	-	X	-
5B	6X40	0	2-4-2	-	5	15.0	-	X	-	X	-
6A	6X6	300	Exist	-	6	-	-	X	X	X	-
6B	6X6	300	Exist	-	6	-	-	X	X	X	-

6 Phase Fully Actuated (Concord Central System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- 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.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Renumber existing loops and signal heads to match phasing scheme shown.
- Install new 2070LX controller in existing cabinet.

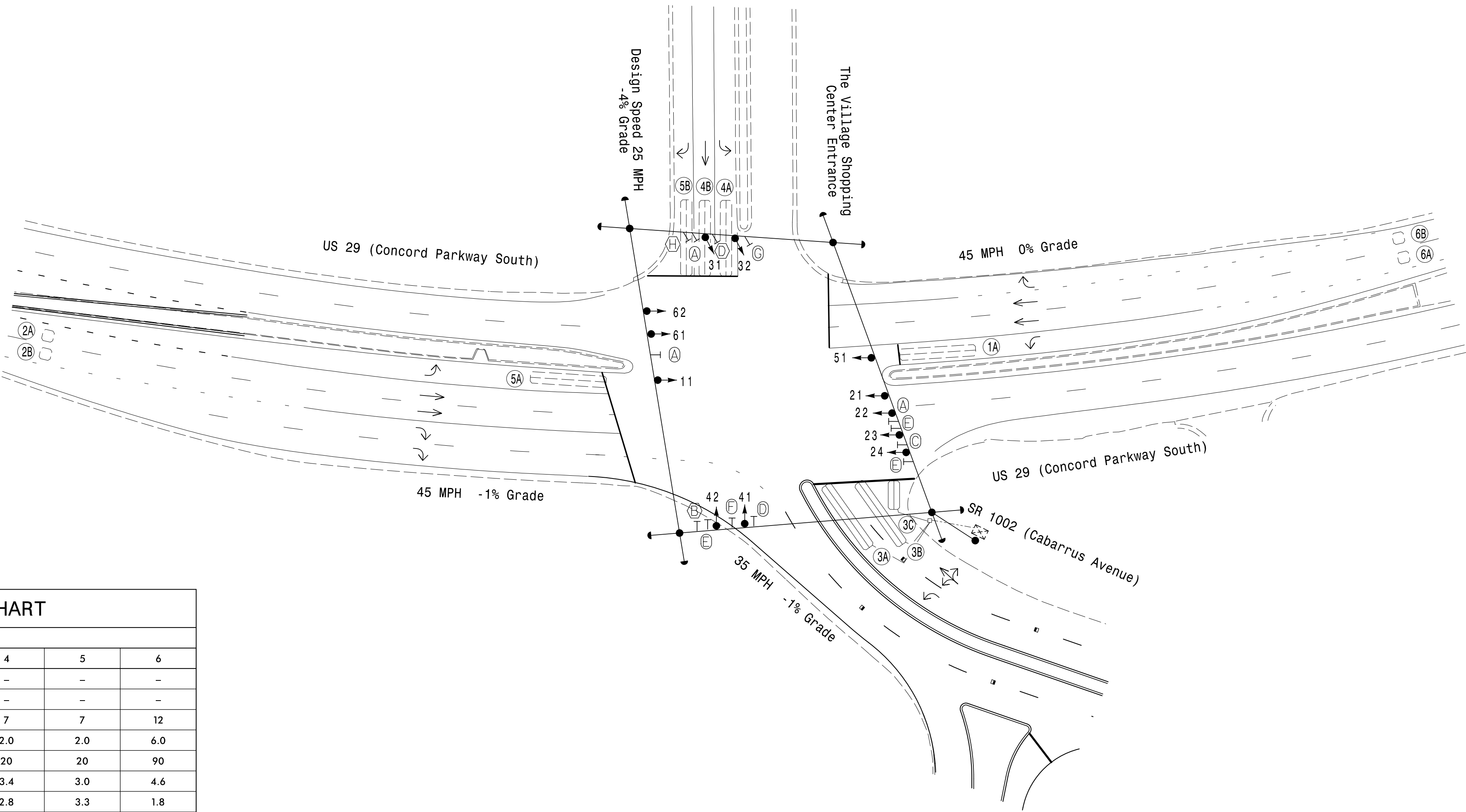
LEGEND

PROPOSED	EXISTING

MAXTIME TIMING CHART

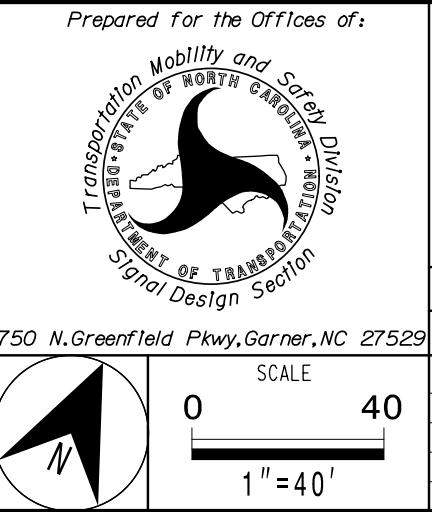
FEATURE	PHASE					
	1	2	3	4	5	6
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Min Green *	7	12	7	7	7	12
Passage *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	20	90	35	20	20	90
Yellow Change	3.0	4.6	3.9	3.4	3.0	4.6
Red Clear	2.9	1.8	2.9	2.8	3.3	1.8
Added Initial *	-	15	-	-	-	15
Maximum Initial *	-	34	-	-	-	34
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Advance Walk	-	-	-	-	-	-
Non Lock Detector	X	-	X	X	X	-
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL
Dual Entry	-	-	-	-	-	-

* 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.



Signal Upgrade

PLANS PREPARED IN THE OFFICE OF:
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Raleigh, NC 27601
(919) 671-2000



US 29 (Concord Parkway South) at SR 1002 (Cabarrus Avenue) / The Village Shopping Center	
Division 10 Cabarrus County Concord	
PLAN DATE: February 2025	REVIEWED BY: KP Baumann
PREPARED BY: SP Pennington	REVIEWED BY:
REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	SEAL
	8/21/2025 DATE
SIG. INVENTORY NO.	10-0702