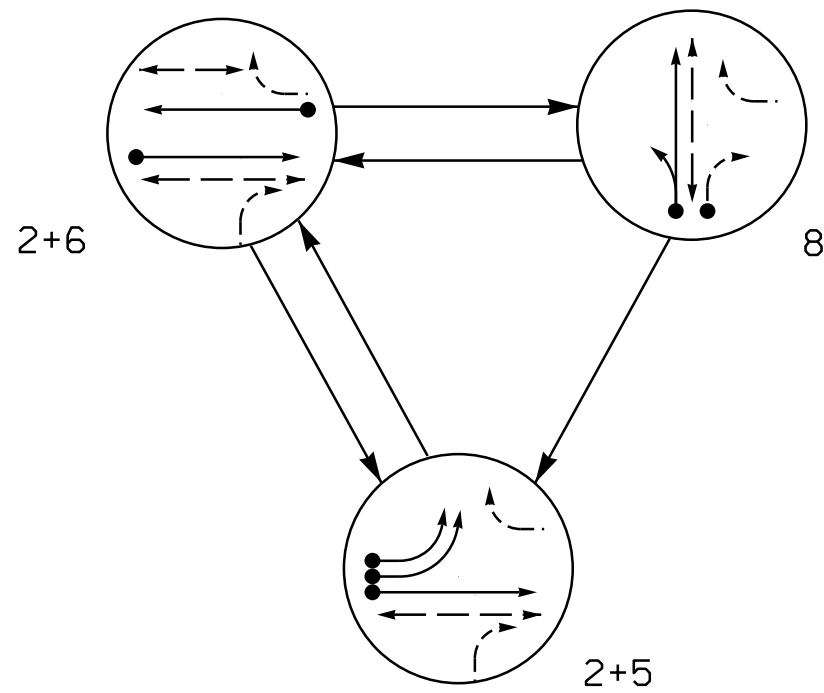
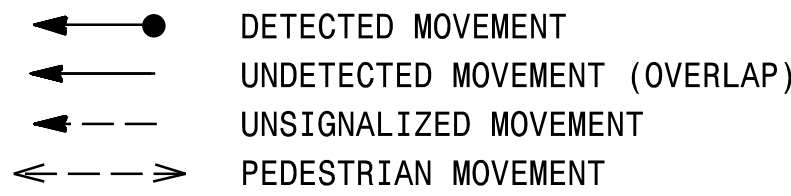


PHASING DIAGRAM



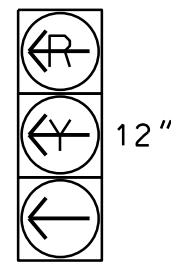
PHASING DIAGRAM DETECTION LEGEND



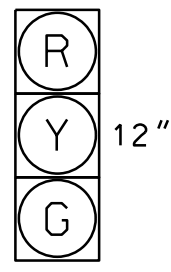
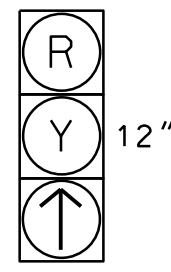
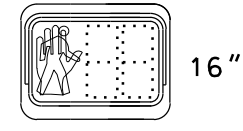
SIGNAL FACE	PHASE			
	2 + 5	2 + 6	8	FLUSH
21	G	G	R	R
22	↑	↑	R	R
51,52	←	←	←	←
61	R	↑	R	R
62	R	G	R	R
81,82,83	R	R	G	R
P21,P22	W	W	DW	DRK
P61,P62	DW	W	DW	DRK
P81,P82	DW	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



51,52

21
62
81,82,8322
61P21,P22
P61,P62
P81,P82

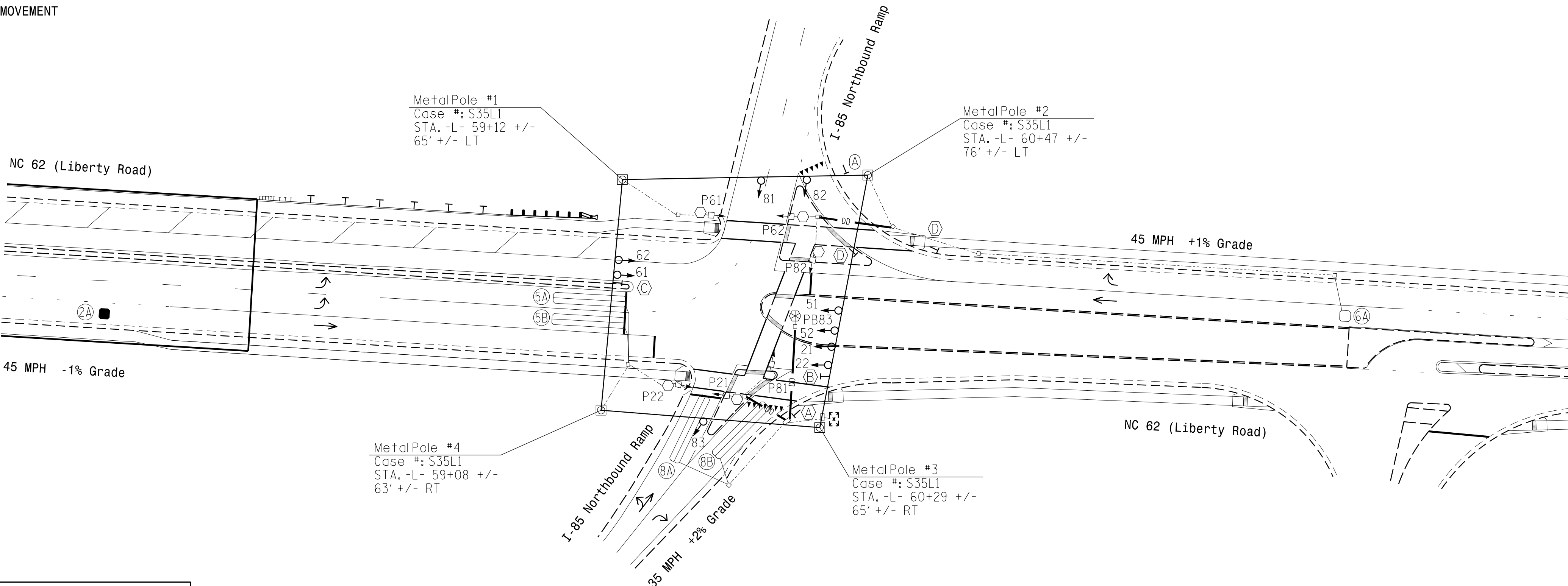
DETECTOR INSTALLATION CHART											
DETECTOR						PROGRAMMING					
LOOP / ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	LOOP SYSTEM NEW CARD
2A	6X6	300	*	*	2	Yes	-	-	X	N	- *
5A	6X40	0	2-4-2	X	5	Yes	-	-	-	N	- X
5B	6X40	0	2-4-2	X	5	Yes	-	-	-	N	- X
6A	6X6	300	5	X	6	Yes	-	-	X	N	- X
8A	6X40	0	2-4-2	X	8	Yes	-	-	-	N	- X
8B	6X40	0	2-4-2	X	8	Yes	-	30.0	-	N	- X

* Multizone Microwave Detection.

3 Phase Fully Actuated (High Point Signal 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 5 may be lagged.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



LEGEND

PROPOSED	EXISTING

ASC/3 TIMING CHART

FEATURE	PHASE			
	2	5	6	8
Min Green *	12	7	12	7
Delayed Green	-	-	-	-
Walk *	7	-	7	7
Ped Clear	4	-	7	5
Veh. Extension *	6.0	2.0	6.0	2.0
Max I *	90	20	90	30
Yellow	4.6	3.0	4.6	3.7
Red Clear	1.2	3.3	1.2	1.9
Actuations B4 Add *	-	-	-	-
Seconds / Actuation *	2.5	-	2.5	-
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	VEH RECALL	-	VEH RECALL	-
Dual Entry	-	-	-	-
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.

Signal Upgrade - Final Design



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PHONE: 704-549-4260

NC LICENSE NO. F-1524
www.drmp.com



NC 62 (Liberty Road) at I-85 Northbound Ramps			
Division 7	Guilford County	Archdale	
PLAN DATE: March 2025	REVIEWED BY: ZM Esposito	PREPARED BY: AW Poole	RKA PROJ. NO: 17380 (040)
REVISIONS	INIT.	DATE	

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL
Signed by:
DATE: 3/17/2025
SIGNATURE
DATE
SIG. INVENTORY NO. 07-2091