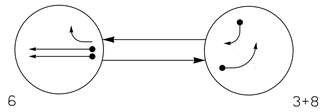
PROJECT REFERENCE NO.	SHEET NO.
B-6051/U-6143	Sig.16.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

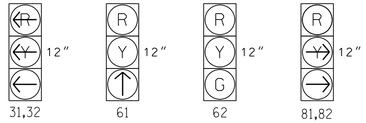
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 6	PHASE 3+8	PHASE FLASH
31,32	~~R~~	←	~~R~~
61	↑	R	R
62	G	R	R
81,82	R	→	R

SIGNAL FACE I.D.

All Heads L.E.D.



MAXTIME DETECTOR INSTALLATION CHART

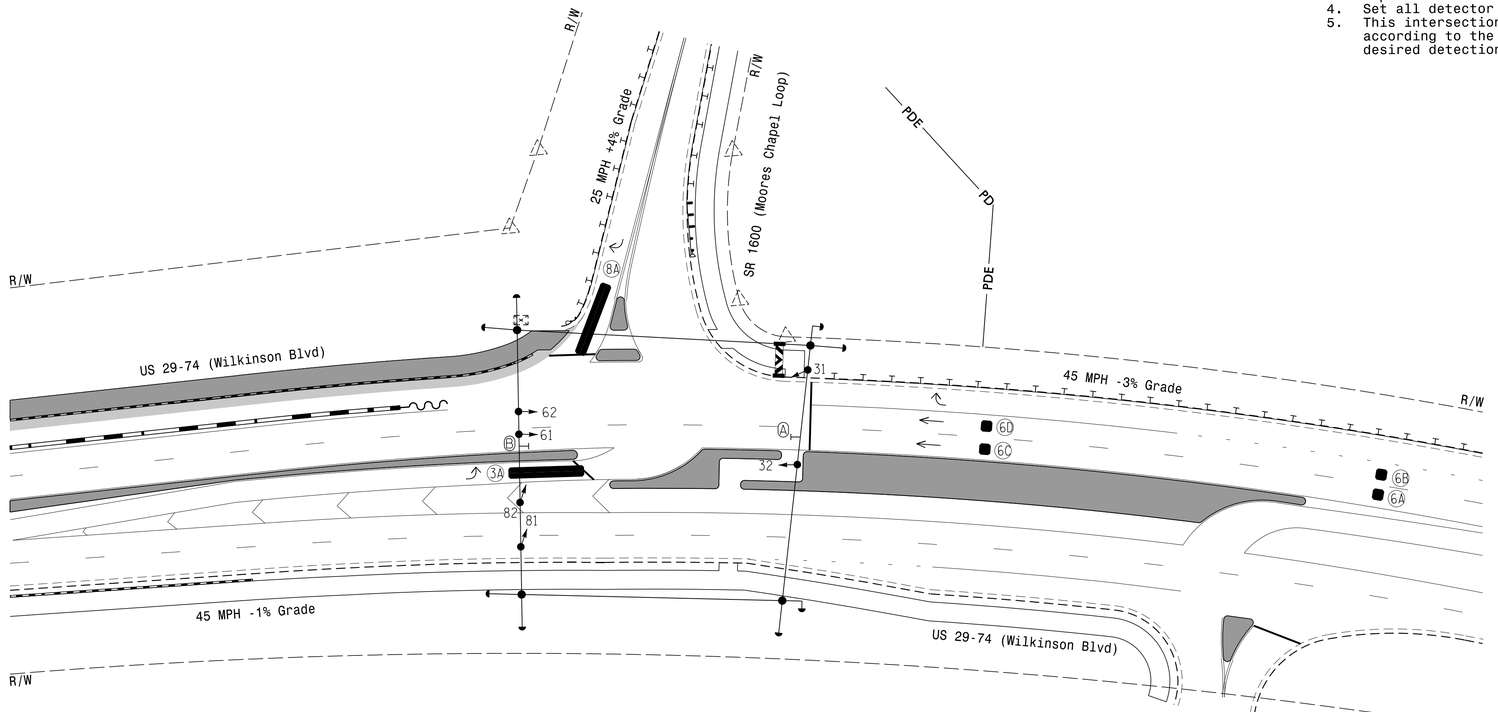
DETECTOR					PROGRAMMING							
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
3A	6X40	0	✳	✳	3	-	-	X	-	X	-	✳
6A	6X6	300	✳	✳	6	-	1.6	X	-	X	-	✳
6B	6X6	300	✳	✳	6	-	1.6	X	-	X	-	✳
6C	6X6	90	✳	✳	6	-	-	X	-	X	-	✳
6D	6X6	90	✳	✳	6	-	-	X	-	X	-	✳
8A	6X40	0	✳	✳	8	15.0	-	X	-	X	-	✳

✳ VIDEO DETECTION ZONE

2 Phase
Fully Actuated
(Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specification for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reposition existing signal heads numbered 61 and 62.
4. Set all detector units to presence mode.
5. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



MAXTIME TIMING CHART

FEATURE	PHASE 3	PHASE 6	PHASE 8
Walk *	–	–	–
Ped Clear	–	–	–
Min Green *	7	12	7
Passage *	2.0	2.0	2.0
Max 1 *	30	90	30
Yellow Change	3.0	4.8	3.0
Red Clear	2.6	2.2	2.6
Added Initial *	–	–	–
Maximum Initial *	–	–	–
Time Before Reduction *	–	–	–
Time To Reduce *	–	–	–
Minimum Gap	–	–	–
Advance Walk	–	–	–
Non Lock Detector	X	–	X
Vehicle Recall	–	MIN RECALL	–
Dual Entry	X	–	X

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
□	Pedestrian Signal Head With Push Button & Sign	■
○	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	→
▭	Construction Zone	▭
▬	Non-Intrusive Detection Zone	▬
N/A	Guardrail	⊥⊥
⋈	Pedestrian Barricade	⋈
▬	Portable Concrete Barrier	▬
— PDE —	Drainage Easment	— PDE —
Ⓐ	No U-Turn Sign (R3-4)	Ⓐ
Ⓑ	No Left Turn Sign (R3-2)	Ⓑ

Signal Upgrade
Temporary Design 2 - TMP Phase IV Step 1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RK&K
P: (919) 878-9560
8601 Six Forks Road Suite 700 | Raleigh, North Carolina 27615-2965
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
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Prepared for the Offices of:
Transportation Mobility and Safety Division
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

SCALE
0 40
1"=40'

US 29-74 (Wilkinson Blvd)
at
SR 1600 (Moores Chapel Loop)

Division 10 Mecklenburg County Charlotte

PLAN DATE: August 2025 REVIEWED BY: DT Sears
PREPARED BY: WP Erickson-Jones REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
044558
ENGINEER
DAVID T. SEARS

DocuSigned by:
David T Sears
069183F28E5741E...
8/1/2025
SIGNATURE DATE

SIG. INVENTORY NO. 10-247912

8/1/2025
B-6051/U-6143_Sig16.dgn
dsears