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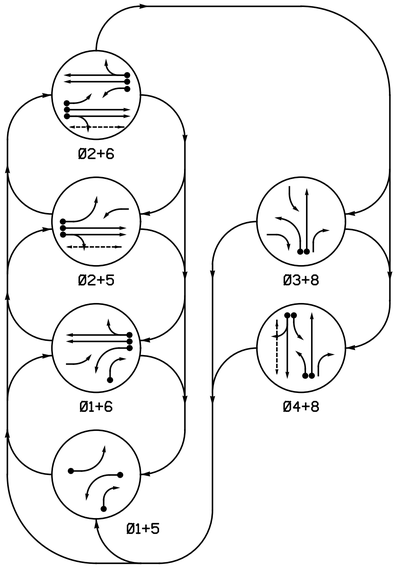
PROJECT REFERENCE NO.	SHEET NO.
U-5757	Sig. 4.0

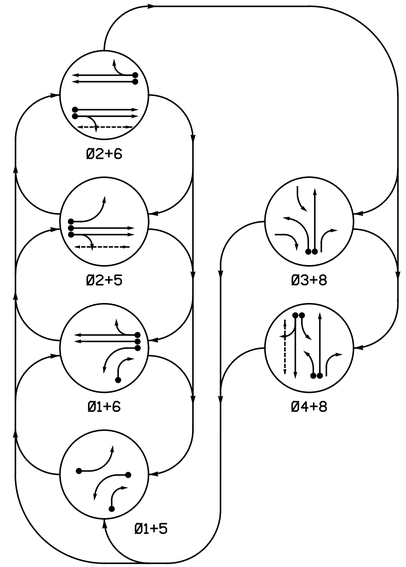
DELAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+8	04+8	FLASH
11	~~←~~	~~←~~	~~F Y~~	~~F Y~~	~~R~~	~~R~~	~~Y~~
21	R	R	G	G	R	R	Y
22	R	R	G	G	R/—	R	Y
31	~~R~~	~~R~~	~~R~~	~~R~~	~~←~~	~~F Y~~	~~R~~
41	~~R~~	~~R~~	~~R~~	~~R~~	~~F Y~~	~~F Y~~	~~R~~
42,43	R	R	R	R	R	G	R
51	~~←~~	~~F Y~~	~~←~~	~~F Y~~	~~R~~	~~R~~	~~Y~~
61,62	R	G	R	G	R	R	Y
81	R	R	R	R	G	G	R
82	R/—	R/—	R	R	G	G	R
P21,P22	DW	DW	W	W	DW	DW	DRK

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE 01+5	01+6	02+5	02+6	03+8	04+8	FLASH
11	~~←~~	~~←~~	~~R~~	~~R~~	~~R~~	~~R~~	~~Y~~
21	R	R	G	G	R	R	Y
22	R	R	G	G	R/—	R	Y
31	~~R~~	~~R~~	~~R~~	~~R~~	~~←~~	~~F Y~~	~~R~~
41	~~R~~	~~R~~	~~R~~	~~R~~	~~F Y~~	~~F Y~~	~~R~~
42,43	R	R	R	R	R	G	R
51	~~←~~	~~R~~	~~←~~	~~R~~	~~R~~	~~R~~	~~Y~~
61,62	R	G	R	G	R	R	Y
81	R	R	R	R	G	G	R
82	R/—	R/—	R	R	G	G	R
P21,P22	DW	DW	W	W	DW	DW	DRK

PHASING DIAGRAM DETECTION LEGEND

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

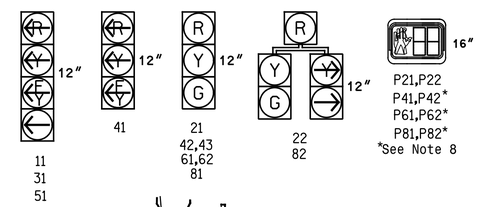
MAXTIME DETECTOR INSTALLATION CHART

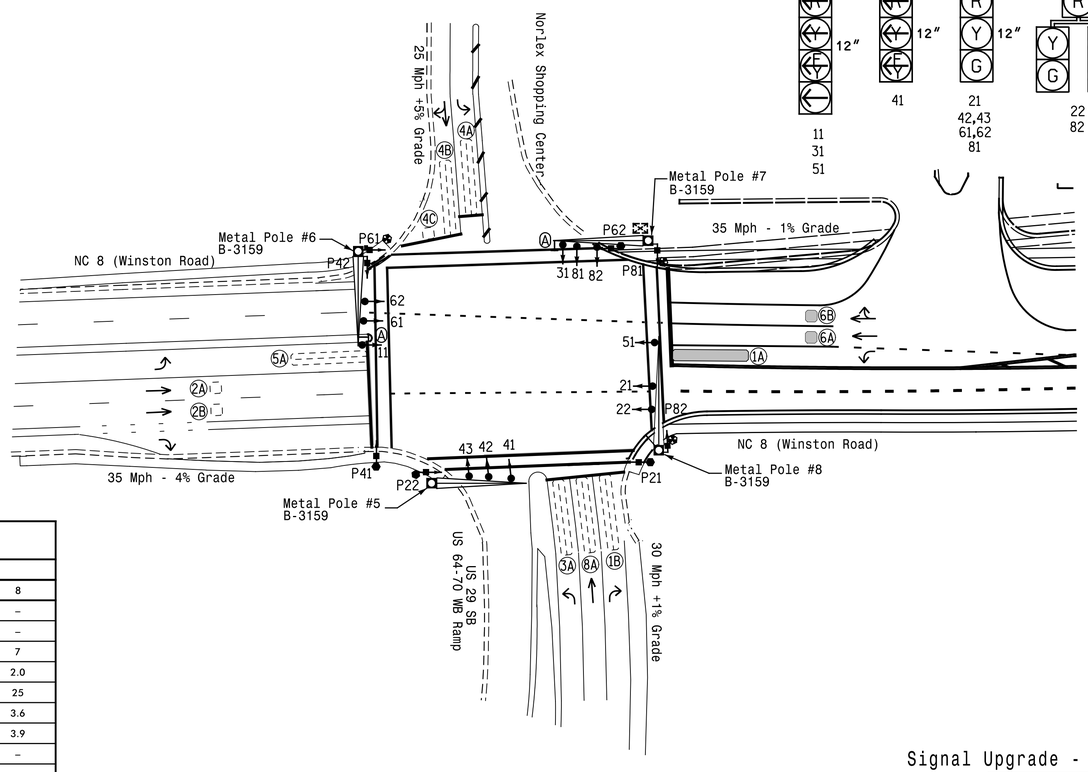
DETECTOR					PROGRAMMING							
LOOP/ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP/ZONE	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	DELAY DURING GREEN	NEW CARD
1A*	6X40	0	*	*	1 6#	15.0** -	- -	X R	- -	X X	- -
1B	6X40	0	2-4-2	-	1	15.0	-	X	-	X	-
2A,2B	6X6	70	4	-	2	-	-	X	-	X	-
3A	6X40	0	2-4-2	-	3 8	15.0 -	- -	X X	- -	X X	- -
4A	6X40	0	2-4-2	-	4	3.0	-	X	-	X	-
4B	6X40	0	2-4-2	-	4	10.0	-	X	-	X	-
4C	6X6	0	4	-	4	15.0	-	X	-	X	-
5A	6X40	0	2-4-2	-	5 2#	15.0** -	- -	X X	- -	X X	- -
6A*	6X6	70	*	*	6	-	-	X	-	X	-
6B*	6X6	70	*	*	6	-	-	X	-	X	-
8A	6X40	0	2-4-2	-	8	-	-	X	-	X	-

*Video Detection Zone
**Disable delay during alternate phasing operation
Disable phase call for loop(s) during alternate phasing operation

SIGNAL FACE I.D.

All Heads L.E.D.





6 Phase
Fully Actuated
NC 8 (Winston Road) CLS
Signal System #:D09-19_Lexington

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or Phase 5 may be lagged.
4. Phase 3 may be lagged.
5. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Due to sidewalk closures during TMP II, disconnect and bag Pedestrian Heads P41, P42, P61, P62, P81 & P82 during this phase of construction.
9. The Division Traffic Engineer will determine the hours of use for each phasing plan.
10. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

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	
	Video Detection Zone	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
	Metal Pole with Mastarm	
N/A	Right of Way	
	Directional Arrow	
	Type I Pushbutton Post	
	Type II Signal Pedestal	
	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	

MAXTIME TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6	8
Walk *	–	13	–	–	–	–	–
Ped Clear *	–	25	–	–	–	–	–
Min Green *	7	10	7	7	7	10	7
Passage *	2.0	3.0	2.0	2.0	2.0	3.0	2.0
Max 1 *	20	50	20	25	15	50	25
Yellow Change	3.0	4.1	3.0	3.6	3.0	4.1	3.6
Red Clear	3.3	3.0	2.0	3.9	2.9	3.0	3.9
Added Initial *	–	–	–	–	–	–	–
Maximum Initial *	–	–	–	–	–	–	–
Time Before Reduction *	–	–	–	–	–	–	–
Time To Reduce *	–	–	–	–	–	–	–
Minimum Gap	–	–	–	–	–	–	–
Advance Walk	–	6	–	–	–	–	–
Non Lock Detector	X	–	X	X	X	–	X
Vehicle Recall	–	MIN RECALL	–	–	–	MIN RECALL	–
Dual Entry	–	–	–	X	–	–	X

* These values may be field adjusted. Do not adjust Min Green and Passage 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 - Temporary Design 2(TMP Phase II)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TRANSYSTEMS
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Fax:919.789.9591
License: F-0453

Prepared for the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 8 (Winston Road)
at
US 29 SB/US 64-70 WB Ramp

Division 9 Davidson County Lexington

PLAN DATE:	May 2024	REVIEWED BY:	G.G. Murr, Jr.
PREPARED BY:	B.E. Wynn	REVIEWED BY:	

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 14543 ENGINEER GENE G. MURR, JR.

Signed by: Gene G. Murr Jr. 9/10/2024
AMF4C9B3A9A4D4...
SIGNATURE DATE

SIG. INVENTORY NO. 09-0735T2

9/10/2024
X:\R2015\R2.15.010.00_U-5757_NC8_Winston\Rd_Widen_Lexington\Traffic\Signals\DESIGN\SIGNALS\09073512_sig_dsn_2022xxxx.dgn
bwynn