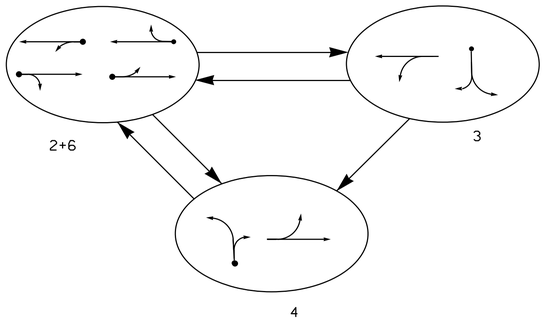
PROJECT REFERENCE NO.	SHEET NO.
BR-0015	Sig. 6.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 2+6	PHASE 3	PHASE 4	FLASH
21,22,23	G	R	R	R
24	G	R	G	R
25	G	R	G	R
31	R	←	R	R
32	R	→	R	R
41	R	R	←	R
42	R	R	→	R
61,62	G	R	R	R
63	G	G	R	R
64	G	G	R	R

MAXTIME DETECTOR INSTALLATION CHART

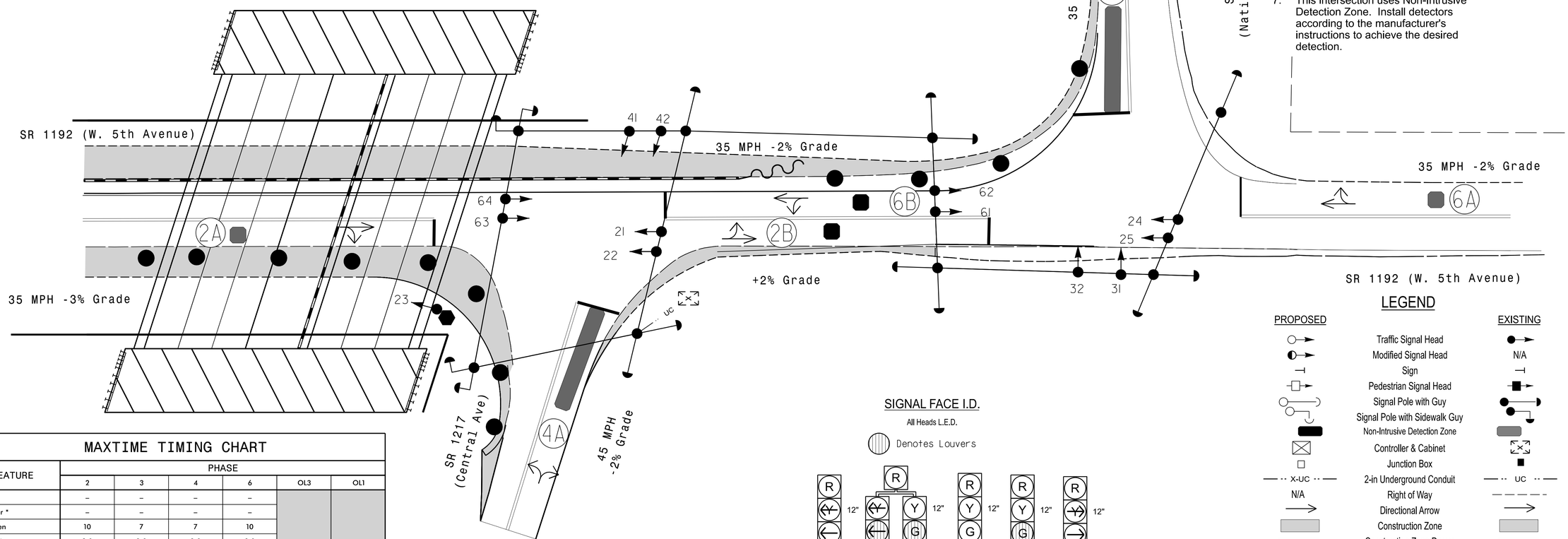
DETECTOR					PROGRAMMING						
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
2A	6X6	70	*	*	2	-	-	X	-	X	-	*
2B	6X6	70	*	*	2	-	-	X	-	X	-	*
3A	6X40	0	*	*	3	5.0	-	X	-	X	-	*
4A	6X40	0	*	*	4	5.0	-	X	-	X	-	*
6A	6X6	70	*	*	6	-	-	X	-	X	-	*
6B	6X6	70	*	*	6	-	-	X	-	X	-	*

* Non-Intrusive Detection Zone

3 Phase
Fully Actuated
(Isolated)

NOTES

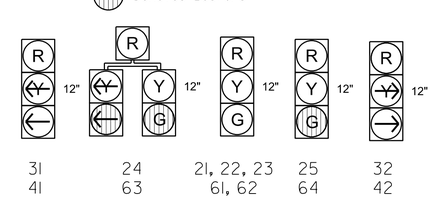
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. The order of phase 3 and phase 4 may be reversed.
4. Reposition existing signal heads numbered 61, and 62.
5. Signal heads numbered 24, 25, 63 and 64 are tethered.
6. Set all detector units to presence mode.
7. This intersection uses Non-Intrusive Detection Zone. Install detectors according to the manufacturer's instructions to achieve the desired detection.



SIGNAL FACE I.D.

All Heads L.E.D.

Denotes Louvers



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Non-Intrusive Detection Zone	
	Controller & Cabinet	
	Junction Box	
X-UC	2-in Underground Conduit	UC
N/A	Right of Way	
	Directional Arrow	
	Construction Zone	
	Construction Zone Drums	
	Type II Signal Pedestal	

MAXTIME TIMING CHART

FEATURE	PHASE 2	PHASE 3	PHASE 4	PHASE 6	OL3	OL1
Walk *	–	–	–	–		
Ped Clear *	–	–	–	–		
Min Green	10	7	7	10		
Passage *	3.0	2.0	2.0	3.0		
Max 1 *	60	20	20	60		
Yellow Change	4.1	3.0	3.0	4.1	4.1	4.1
Red Clear	1.7	1.8	2.1	1.7	1.7	1.7
Added Initial *	–	–	–	–		
Maximum Initial *	–	–	–	–		
Time Before Reduction *	–	–	–	–		
Time To Reduce *	–	–	–	–		
Minimum Gap	–	–	–	–		
Advance Walk	–	–	–	–		
Non Lock Detector	–	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 - Temporary. Design 3 (TMP Phase 3)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N. Greenfield Pkwy, Garner, NC 27529

SR 1192 (W. 5th Avenue)
at
SR 1277 (Central Avenue) and
SR 1291 (National Blvd.)

Division 09 Davidson County In Lexington

PLAN DATE: February 2025 REVIEWED BY:
PREPARED BY: I. O. Umozurike REVIEWED BY:

SCALE 0 20 1"=20'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 026486 ENGINEER ROBERT J. ZIEMBA

DocuSigned by: 03/04/2025
1F99A6A6C27A4E4... DATE

SIG. INVENTORY NO. 09-0995T3

4-MAR-2025 08:28
jzieemba@ncdot.gov:mcdot-pw-01/Documents/Division_09/BR-0015 Davidson 67 and 68/Signals/0909957T3_sig_dsn_2025mmdd.dgn
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