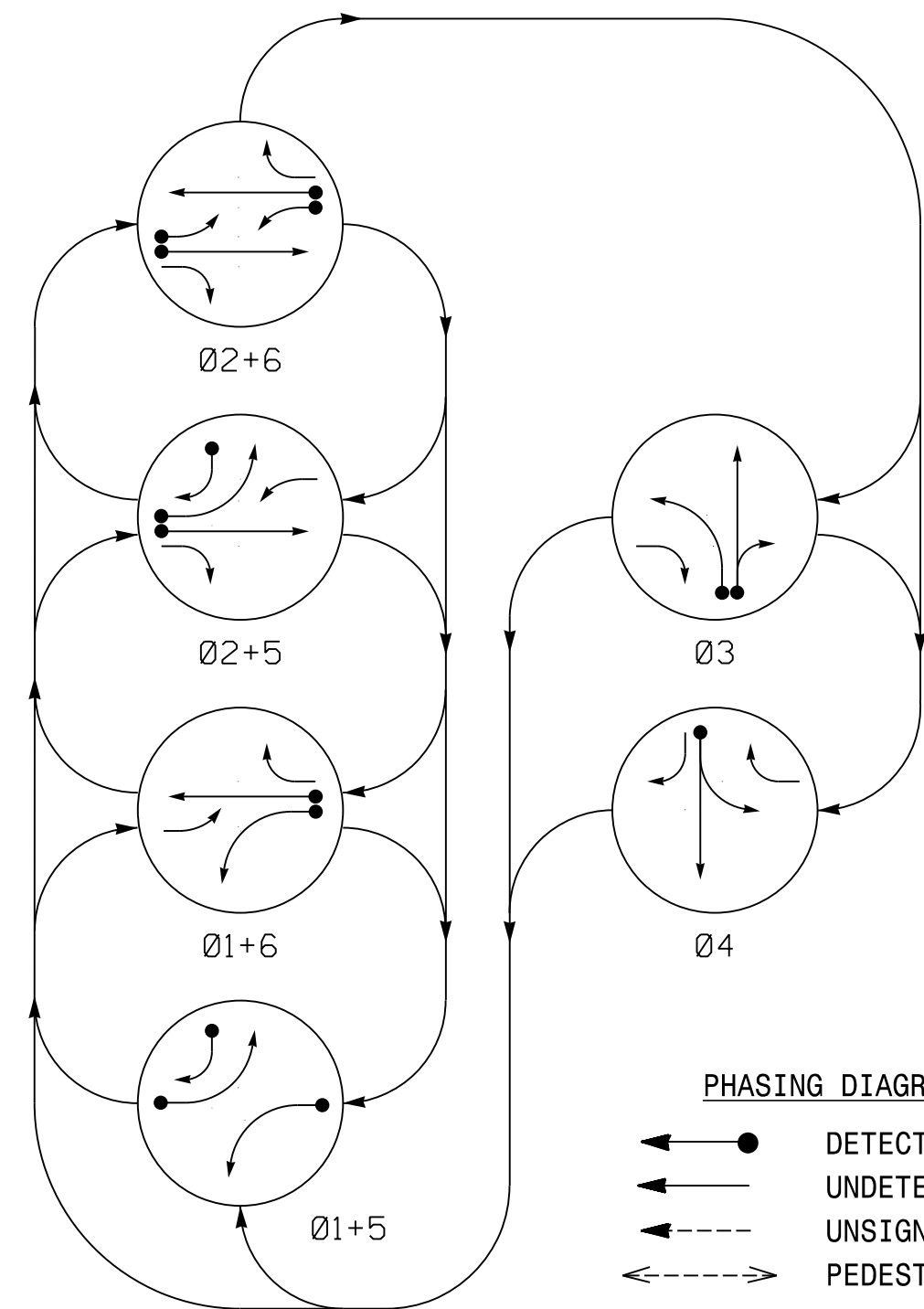


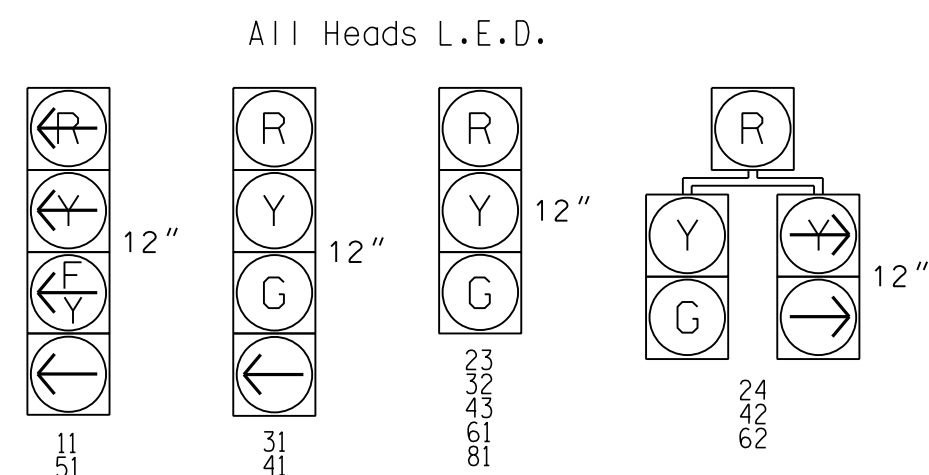
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 ○ UNDETECTED MOVEMENT (OVERLAP)
 - UNSIGNALIZED MOVEMENT
 - PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11	←	←	←	←	←	←	Y
23	R	R	G	G	R	R	Y
24	R	R	G	G	R	R	Y
31	R	R	R	R	R	R	R
32	R	R	R	R	G	R	R
41	R	R	R	R	R	C	R
42	R	R	R	R	R	G	R
43	R	R	R	R	R	G	R
51	←	←	←	←	←	←	Y
61	R	G	R	G	R	R	Y
62	R	G	R	G	R	R	Y

SIGNAL FACE I.D.

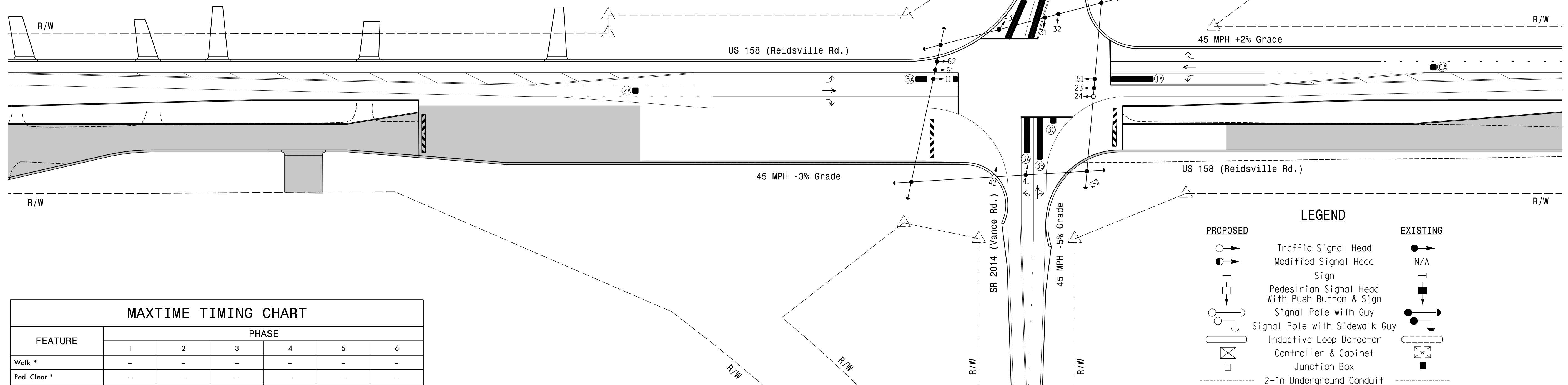


MAXTIME DETECTOR INSTALLATION CHART												
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL CALL	DELAY DURING GREEN	NEW CARD	
1A *	6X40	0	*	*	1	15	-	X	-	X	-	*
2A *	6X6	300	*	*	2	-	-	X	X	X	-	*
3A *	6X40	0	*	*	3	3	-	X	-	X	-	*
3B *	6X40	0	*	*	3	10	-	X	-	X	-	*
3C *	6X6	0	*	*	3	10	-	X	-	X	-	*
4A *	6X40	0	*	*	4	3	-	X	-	X	-	*
5A *	6X40	0	*	*	5	15	-	X	-	X	-	*
5B *	6X40	0	*	*	5	15	-	X	-	X	-	*
6A *	6X6	300	*	*	6	-	-	X	X	X	-	*

* Video Detection Zone

6 Phase Fully Actuated (Isolated) 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 unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and 4 may be reversed.
- Reposition existing signal heads numbered 11, 23, 41, 51, 61, and 62.
- Set all detector units to presence mode.
- This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



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 I *	20	90	30	30	20	90
Yellow Change	3.0	4.8	5.0	5.1	3.0	4.8
Red Clear	3.2	1.9	1.1	1.0	2.8	1.9
Added Initial *	-	2.5	-	-	-	2.5
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.

PROPOSED		EXISTING	
○	Traffic Signal Head	●	N/A
○	Modified Signal Head	○	N/A
○	Sign	○	N/A
○	Pedestrian Signal Head With Push Button & Sign	○	N/A
○	Signal Pole with Guy	○	N/A
○	Signal Pole with Sidewalk Guy	○	N/A
⊗	Inductive Loop Detector	⊗	N/A
⊗	Controller & Cabinet	⊗	N/A
⊗	Junction Box	⊗	N/A
○	2-in Underground Conduit	○	N/A
-	Right of Way	-	N/A
→	Directional Arrow	→	N/A
█	Construction Zone	█	N/A
█	Video Detection Zone	█	N/A
█	Barricade	█	N/A

Signal Upgrade - Temporary Design 4 (TMP Phase II)

RK&K
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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

US 158 (Reidsville Rd.)
 at
 SR 2014 (Vance Rd.) /
 SR 1965 (Belews Creek Rd.)
 Division 9 Forsyth County Walkertown
 PLAN DATE: February 2024 REVIEWED BY: WP Erickson-Jones
 PREPARED BY: H Townsend REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 056142
 W. PORTER JONES
 PORTER JONES
 2/12/2024
 DATE
 SIG. INVENTORY NO. 09-1100T4