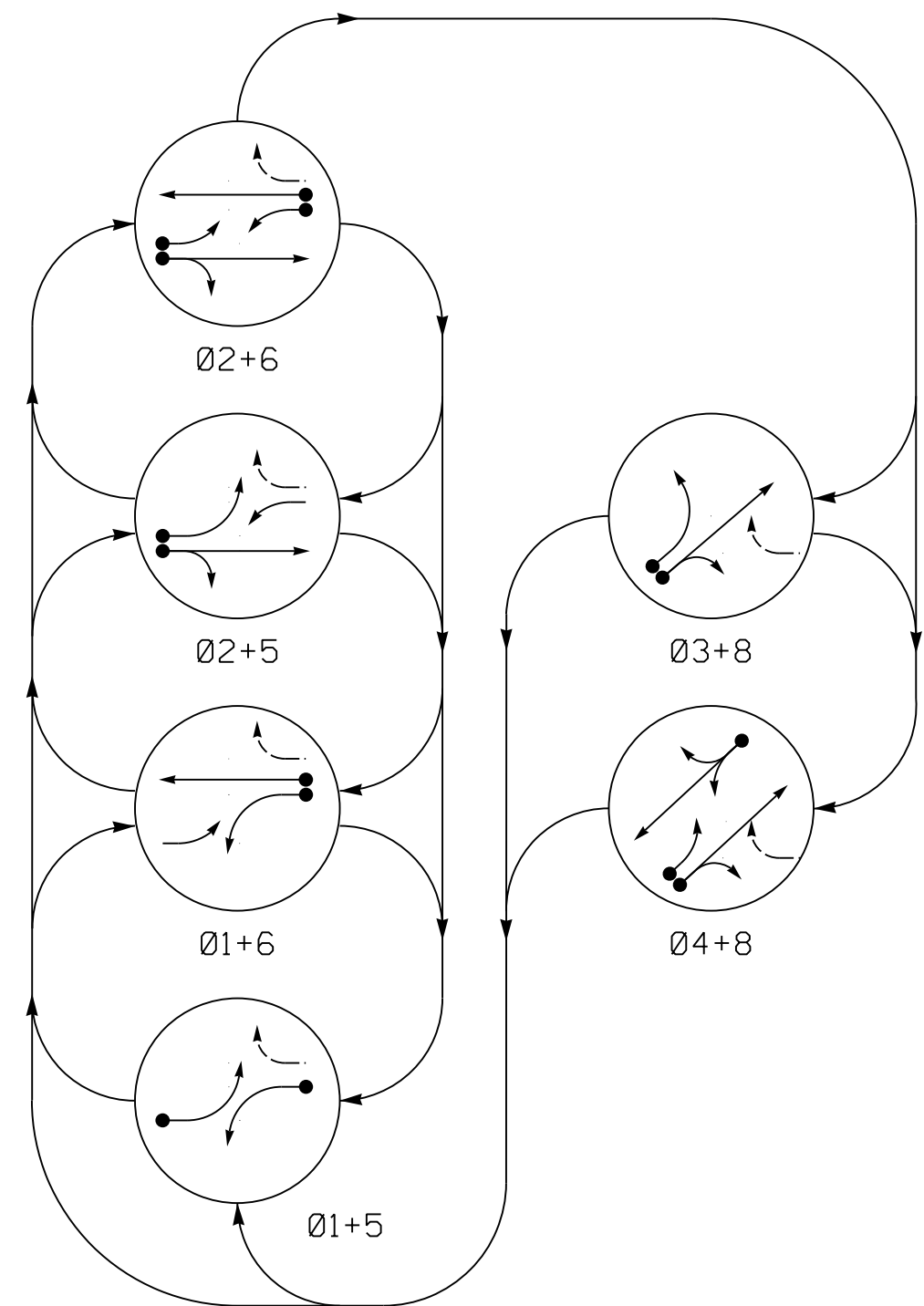


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

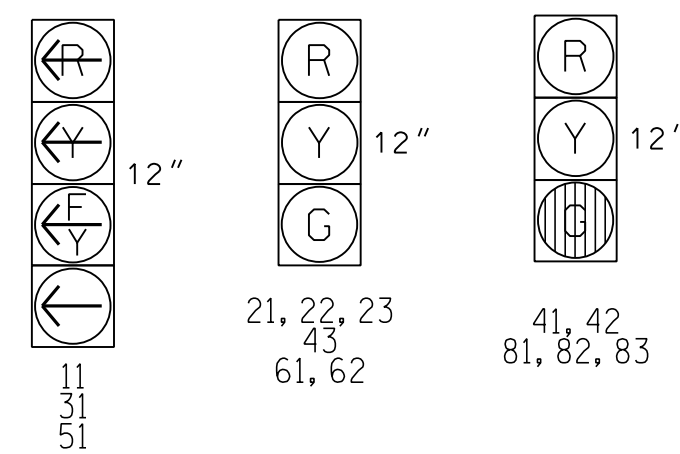
TABLE OF OPERATION

SIGNAL FACE	PHASE					
	01+5	01+6	02+5	02+6	03+8	04+8
11	←	←	←	←	←	←
21, 22, 23	R	R	G	G	R	Y
31	←	←	←	←	←	←
41, 42, 43	R	R	R	R	R	G
51	←	←	←	←	←	←
61, 62	R	G	R	G	R	Y
81, 82, 83	R	R	R	R	G	G

SIGNAL FACE I.D.

All Heads L.E.D.

Denotes Louvers



MAXTIME DETECTOR INSTALLATION CHART

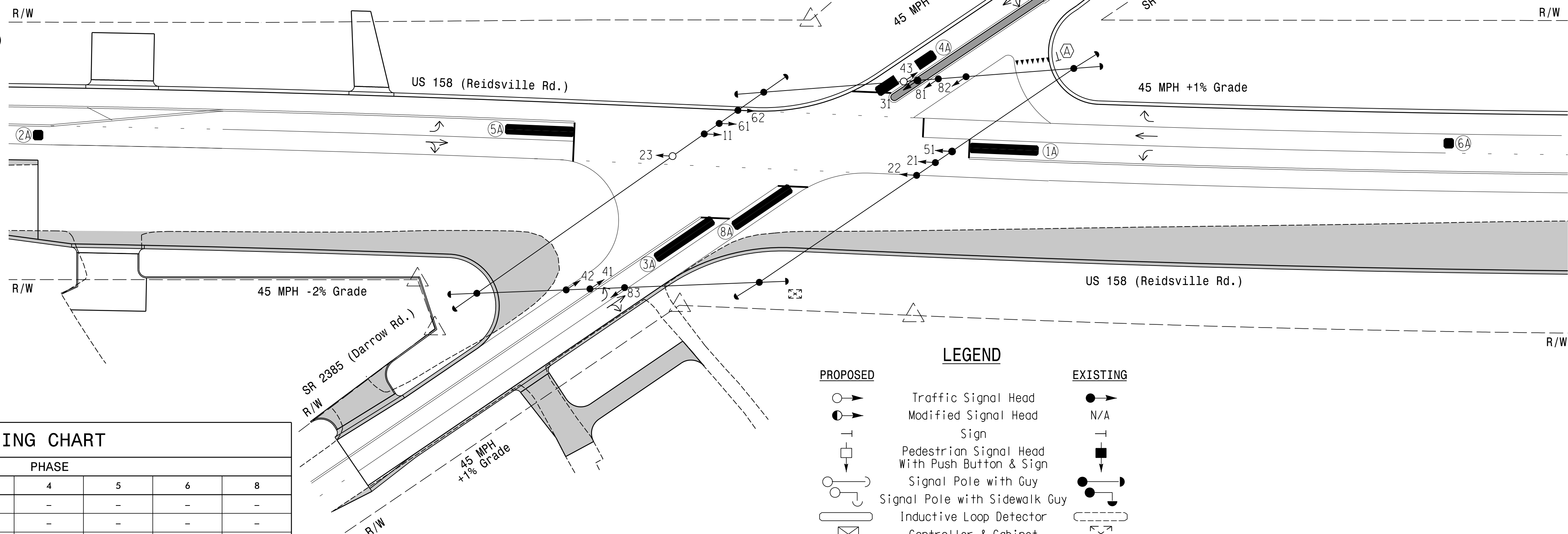
ZONE	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN	NEW CARD
1A*	6X40	0	*	*	1	15	-	X	-	X	-	*
2A*	6X6	300	*	*	2	-	-	X	X	X	-	*
3A*	6X40	0	*	*	3	15	-	X	-	X	-	*
4A*	6X40	0	*	*	4	10	-	X	-	X	-	*
5A*	6X40	0	*	*	5	15	-	X	-	X	-	*
6A*	6X6	300	*	*	6	-	-	X	X	X	-	*
8A*	6X40	0	*	*	8	10	-	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 operation unless otherwise directed by the Engineer.
- Omit phase 3 during phase 4 on.
- Phase 1 and/or phase 5 may be lagged.
- Reposition existing signal heads numbered 11, 21, 22, 31, 51, 61, 62, 81, and 82.
- 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.



MAXTIME TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	8	
Walk *	-	-	-	-	-	-	-	
Ped Clear *	-	-	-	-	-	-	-	
Min Green	7	12	7	7	7	12	7	
Passage *	2.0	6.0	2.0	2.0	2.0	6.0	2.0	
Max I *	15	100	20	30	15	100	30	
Yellow Change	3.0	4.7	3.0	4.3	3.0	4.7	4.3	
Red Clear	3.6	2.5	2.4	2.3	4.5	2.5	2.3	
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	-	X	
Vehicle Recall	-	MIN RECALL	-	-	-	MIN RECALL	-	
Dual Entry	-	-	-	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.

LEGEND

- | | | | |
|--|---|--|---|
| | Proposed Traffic Signal Head | | Existing Traffic Signal Head |
| | Proposed Modified Signal Head | | Existing Modified Signal Head |
| | Proposed Sign | | Existing Sign |
| | Proposed Pedestrian Signal Head With Push Button & Sign | | Existing Pedestrian Signal Head With Push Button & Sign |
| | Proposed Signal Pole with Guy | | Existing Signal Pole with Guy |
| | Proposed Signal Pole with Sidewalk Guy | | Existing Signal Pole with Sidewalk Guy |
| | Proposed Inductive Loop Detector | | Existing Inductive Loop Detector |
| | Proposed Controller & Cabinet | | Existing Controller & Cabinet |
| | Proposed Junction Box | | Existing Junction Box |
| | Proposed 2-in Underground Conduit | | Existing 2-in Underground Conduit |
| | Proposed Right of Way | | Existing Right of Way |
| | Proposed Directional Arrow | | Existing Directional Arrow |
| | Proposed Construction Zone | | Existing Construction Zone |
| | Proposed Video Detection Zone | | Existing Video Detection Zone |
| | Proposed "YIELD" Sign (R1-2) | | Existing "YIELD" Sign (R1-2) |

Signal Upgrade - Temporary Design 3 (TMP Phase II)

Prepared for the Offices of:

US 158 (Reidsville Rd.) at SR 2385 (Darrow Rd.)

Division 9 Forsyth County Walkertown

PLAN DATE: February 2024 REVIEWED BY: WP Erickson-Jones

PREPARED BY: H Townsend REVIEWED BY:

REVISIONS: _____ INIT. DATE

SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

PORTER JONES

PROFESSIONAL ENGINEER

SEAL 056142

2/12/2024

SIGNATURE DATE

SIG. INVENTORY NO. 09-099613

RK&K

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TRANSPORTATION MOBILITY AND SAFETY DIVISION

DEPARTMENT OF TRANSPORTATION

SIGNAL DESIGN SECTION