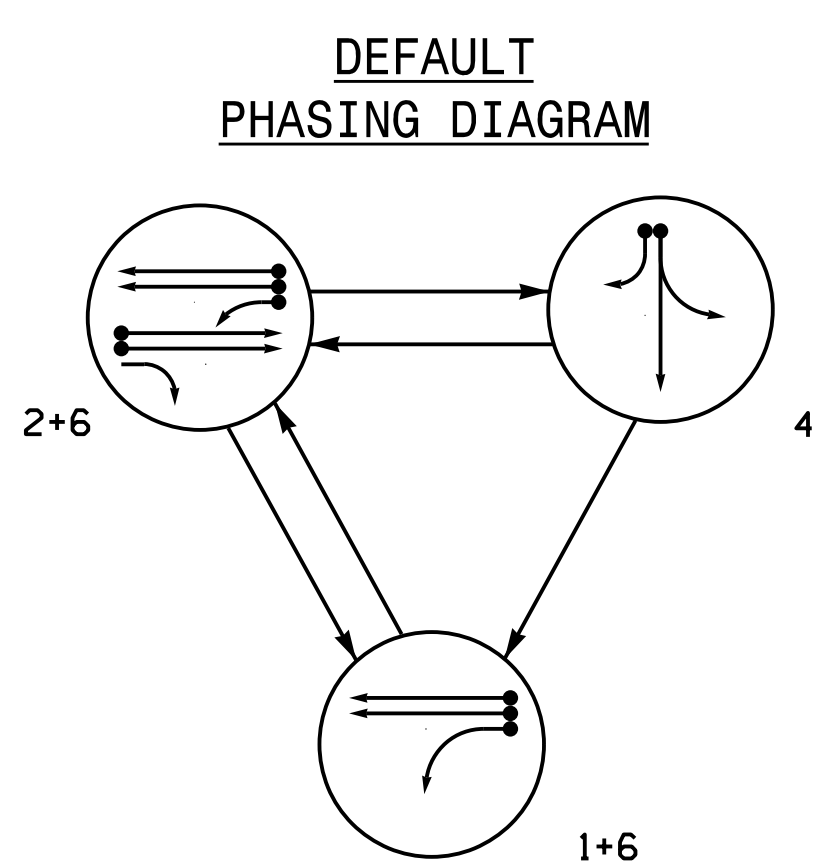
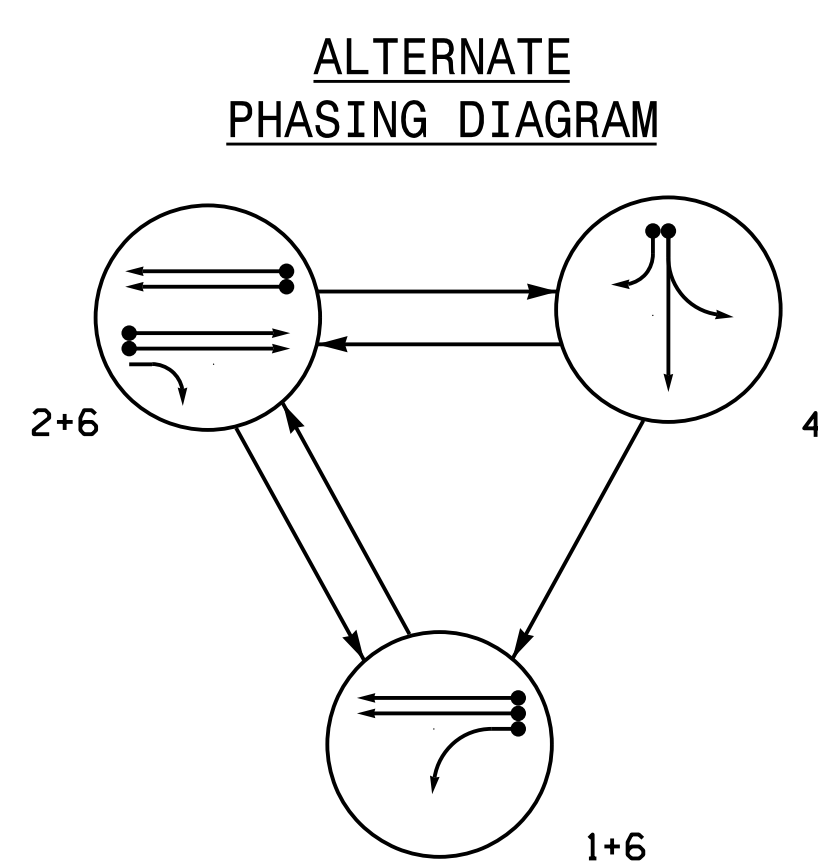


5/9/2025 11:32:40 AM susan.pennington K:\RAL_IPTA\SIGNAL\S011036730 U-4913A\454 - Signal Design\DR7.0 U-4913A_102050-2025g1.dgn



SIGNAL FACE	PHASE			
	1 + 6	2 + 6	4	FLASH
11	←	←	→	→
21	R	↑	R	R
22	R	G	R	R
41,42	R	R	G	R
61	G	G	R	R
62	↑	↑	R	R



SIGNAL FACE	PHASE			
	1 + 6	2 + 6	4	FLASH
11	←	→	→	→
21	R	↑	R	R
22	R	G	R	R
41,42	R	R	G	R
61	G	G	R	R
62	↑	↑	R	R

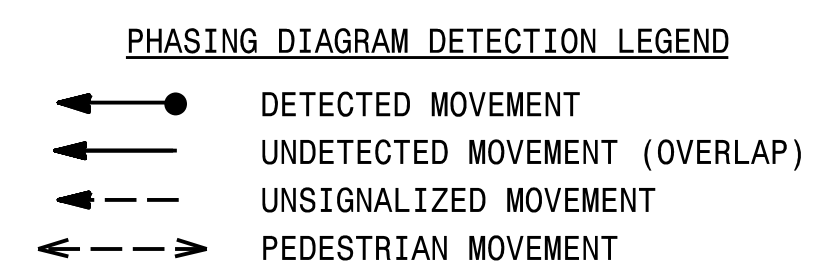
MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR				PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A *	6X40	0	*	-	1	15.0*	-	X	-	X	-
					6	3.0	-	X	-	X	-
4A *	6X40	0	*	-	4	-	-	X	-	X	-
4B *	6X40	0	*	-	4	15.0	-	X	-	X	-

* Reduce delay to 3 seconds during Alternate Phasing Operation.
* Microwave Detection Zone

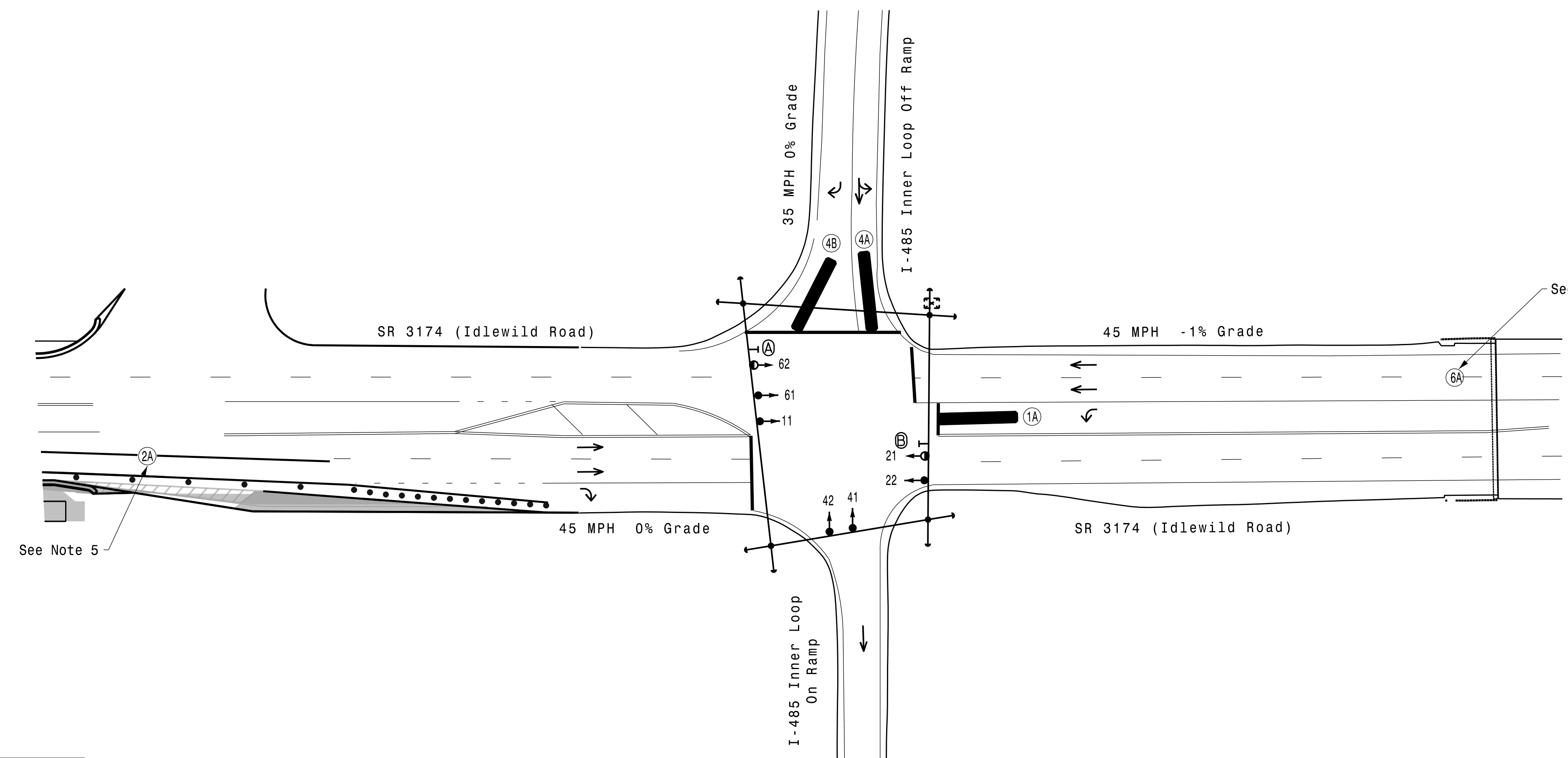
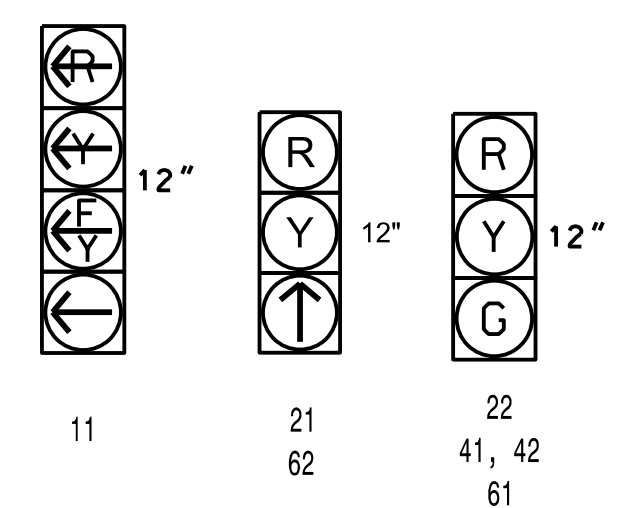
3 Phase
Fully Actuated w/
Alternate Phasing
SR 3174/1501 (Idlewild Road) CLS

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Phase 1 may be lagged.
3. Set all detector units to presence mode.
4. The Division Traffic Engineer will determine the hours of use for each phasing plan.
5. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



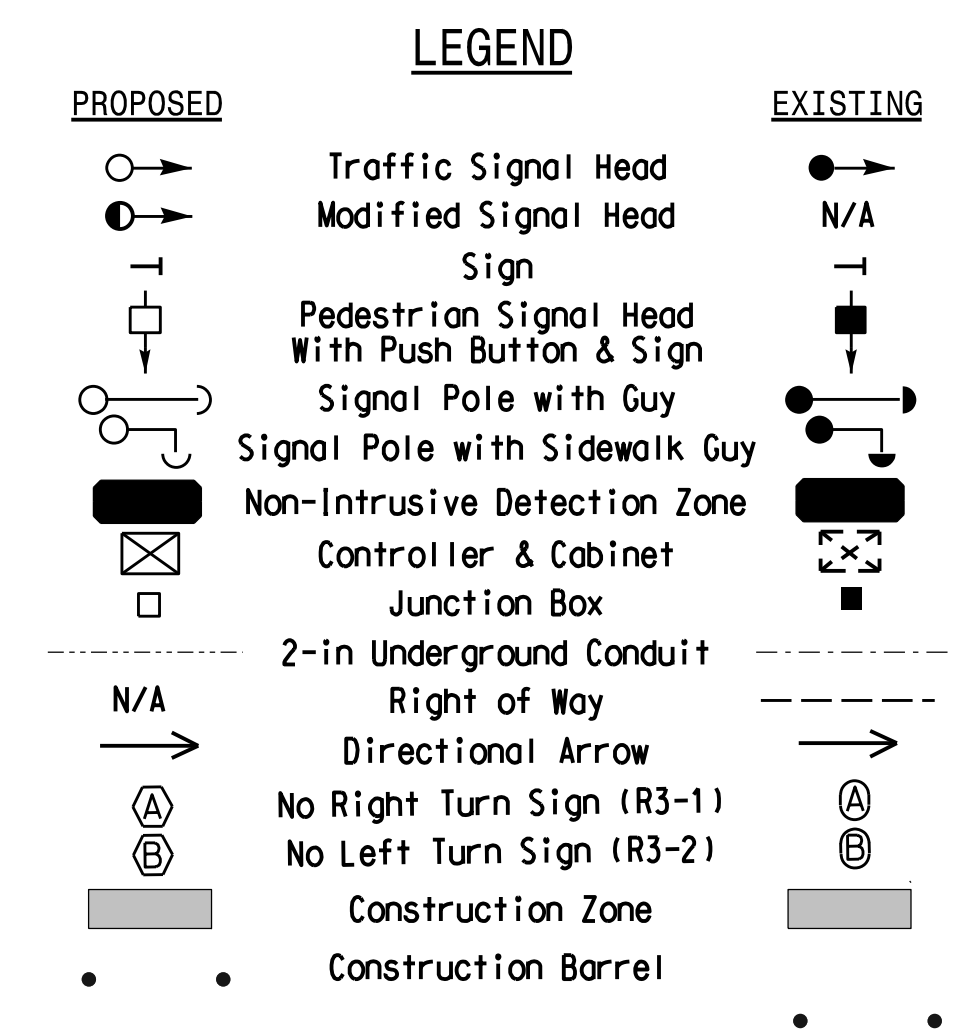
SIGNAL FACE I.D.
All Heads L.E.D.



MAXTIME TIMING CHART					
FEATURE	PHASE				
	1	2	4	6	
Walk *	-	-	-	-	-
Ped Clear	-	-	-	-	-
Min Green *	7	12	7	12	-
Passage *	2.0	6.0	2.0	6.0	-
Max 1 *	20	90	25	90	-
Yellow Change	3.0	4.6	3.8	4.6	-
Red Clear	2.6	1.1	1.7	1.1	-
Added Initial *	-	1.5	-	1.5	-
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	-	-
Vehicle Recall	-	MIN RECALL	-	MIN RECALL	-
Dual Entry	-	-	-	-	-

* 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.

Advance Microwave Detection					
FUNCTION	Sensor 1 (2A)		Sensor 2 (6A)		
Channel	1		1		
Phase	2		6		
Direction of Travel	EB		WB		
Type	Priority		Priority		
Level	2	QUEUE	2	QUEUE	
Discovery Zone (ft)	<750	N/A	<750	N/A	
Detection Zone (ft)	100-600	100-150	100-600	100-150	
Enable Speed	Y	Y	Y	Y	
Speed Range (mph)	35-100	1-35	35-100	1-35	
Enable Estimated Time of Arrival	Y	N	Y	N	
Estimated Time of Arrival (sec)	2.5-6.5	-	2.5-6.5	-	



PLANS PREPARED IN THE OFFICE OF:
Kimley»Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
(919) 677-2000

Signal Upgrade - Temporary Design

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SR 3174 (Idlewild Road)
at
I-485 Inner Loop Ramps

Division 10 Mecklenburg County Stallings
PLAN DATE: February 2025
PREPARED BY: SP Pennington
REVIEWED BY: KP Baumann

REVISIONS	INIT.	DATE

SCALE
0 40
1" = 40'

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL 044434
KEVIN P. BAUMANN
ENGINEER

SIGNATURE
5/12/2025
DATE
SIG. INVENTORY NO. 10-20501