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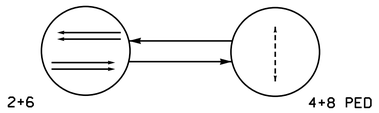
PROJECT REFERENCE NO.	SHEET NO.
U-4913A	Sig. 2.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 2+6 DARK	ACTIVATION	STEADY YELLOW	ALL RED	4+8 PED WALK	4+8 PED CLEAR	FLASH
21, 22	DRK	F Y	Y	R	R	F R	Y
61, 62	DRK	F Y	Y	R	R	F R	Y
P41, P42	DW	DW	DW	DW	W	DW	DRK
P81, P82	DW	DW	DW	DW	W	DW	DRK

*Alternating Flash
Y - Steady Yellow
FY - Flashing Yellow
R - Steady Red
FR - Flashing Red
DRK - Dark
W - Walk
DW - Don't Walk

SIGNAL FACE I.D.

All Heads L.E.D.

21, 22
61, 62

P41, P42
P81, P82

2 Phase
Semi-Actuated
Pedestrian Hybrid Beacon
(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. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
3. Enable Ped Clear During Red for phase 4 PED and phase 8 PED.
4. Locate the Pedestrian and Crosswalk advance signs (see Figure 1) in accordance with Table 2C-3 in Section 2C.04 of the 2023 MUTCD or as otherwise directed by the Engineer.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated system timing values supersede these values.

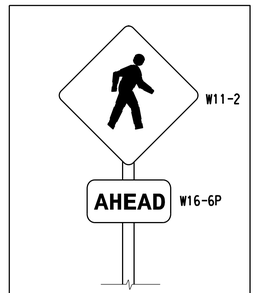
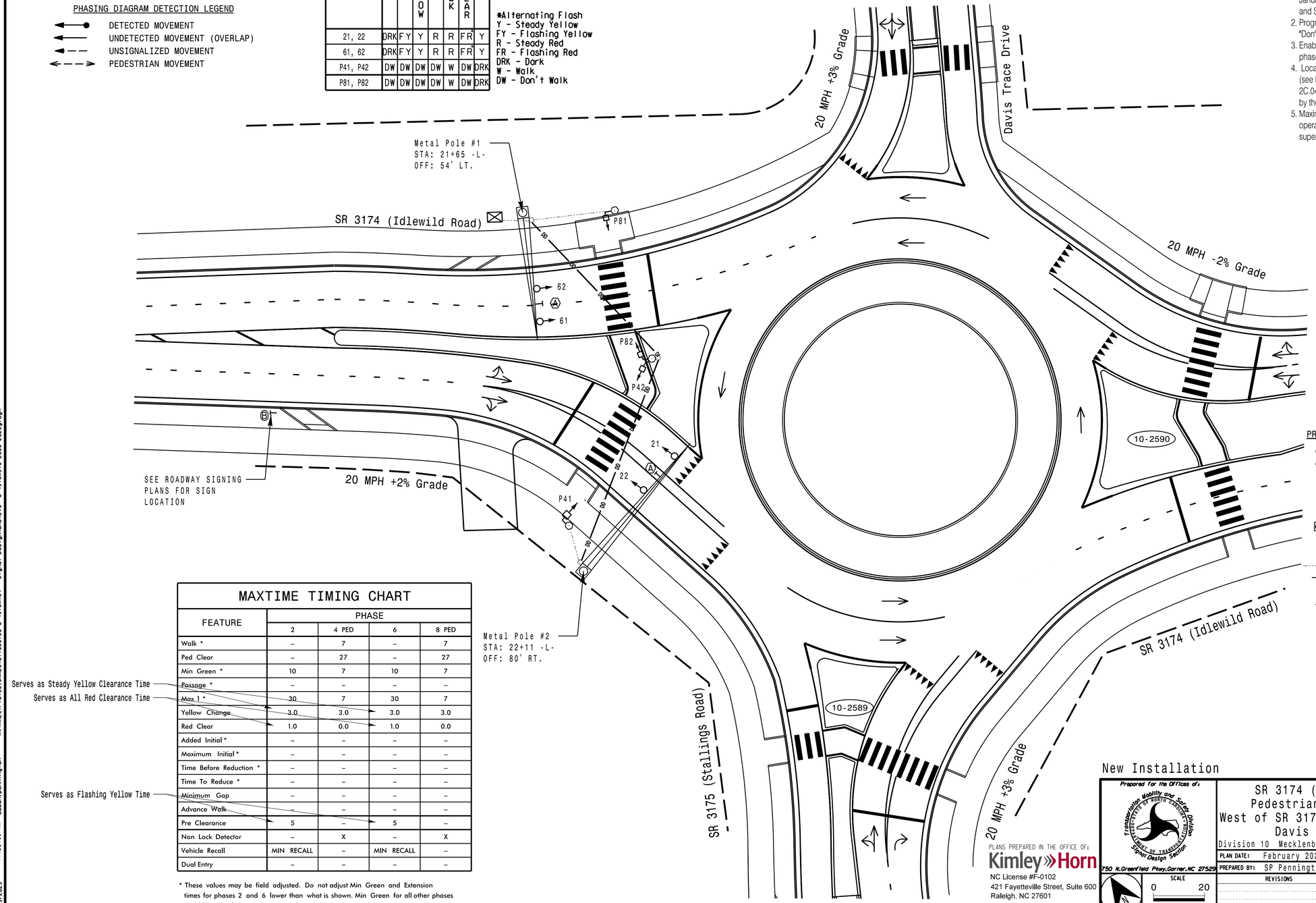


Figure 1



LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Type II Signal Pedestal	
	Metal Pole with Mastarm	
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
	Directional Drill	N/A
N/A	Right of Way	
	Directional Arrow	
N/A	Curb Ramp	
Ⓐ	"STOP ON RED - YIELD ON FLASHING RED AFTER STOP" Sign (R10-23a)	Ⓐ
Ⓑ	Pedestrian Crossing Sign (W11-2) w/ "AHEAD" Plaque (W16-9P) (See Figure 1)	Ⓑ

MAXTIME TIMING CHART

FEATURE	PHASE 2	4 PED	6	8 PED
Walk *	–	7	–	7
Ped Clear	–	27	–	27
Min Green *	10	7	10	7
Passage *	–	–	–	–
Max 1 *	30	7	30	7
Yellow Change	3.0	3.0	3.0	3.0
Red Clear	1.0	0.0	1.0	0.0
Added Initial *	–	–	–	–
Maximum Initial *	–	–	–	–
Time Before Reduction *	–	–	–	–
Time To Reduce *	–	–	–	–
Minimum Gap	–	–	–	–
Advance Walk	–	–	–	–
Pre Clearance	5	–	5	–
Non Lock Detector	–	X	–	X
Vehicle Recall	MIN RECALL	–	MIN RECALL	–
Dual Entry	–	–	–	–

Serves as Steady Yellow Clearance Time
Serves as All Red Clearance Time
Serves as Flashing Yellow Time

* 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.

New Installation

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared For the Offices of:
Transportation Mobility and Safety Division
Traffic Engineering Branch
Signal Design Section

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SR 3174 (Idlewild Road)
Pedestrian Hybrid Beacon
West of SR 3175 (Stallings Road)/
Davis Trace Drive

Division 10 Mecklenburg County Stallings

PLAN DATE:	February 2025	REVIEWED BY:	KP Baumann
PREPARED BY:	SP Pennington	REVIEWED BY:	

SCALE: 0 20, 1"=20'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044434 KEVIN P. BAUMANN
DocuSigned by: SIGNATURE
5/12/2025 DATE
SIG. INVENTORY NO. 10-2588

5/9/2025 11:22:09 AM susan.pennington K:\RAL_TPTO_SIGNALS\0110367.30 U-4913A\S4 - Signal Design\RDWY2.0 U-4913A_10-2588-2025g.dgn