

2 Phase Fully Actuated W/ Alternate Phasing Operation Wilkesboro Closed Loop System

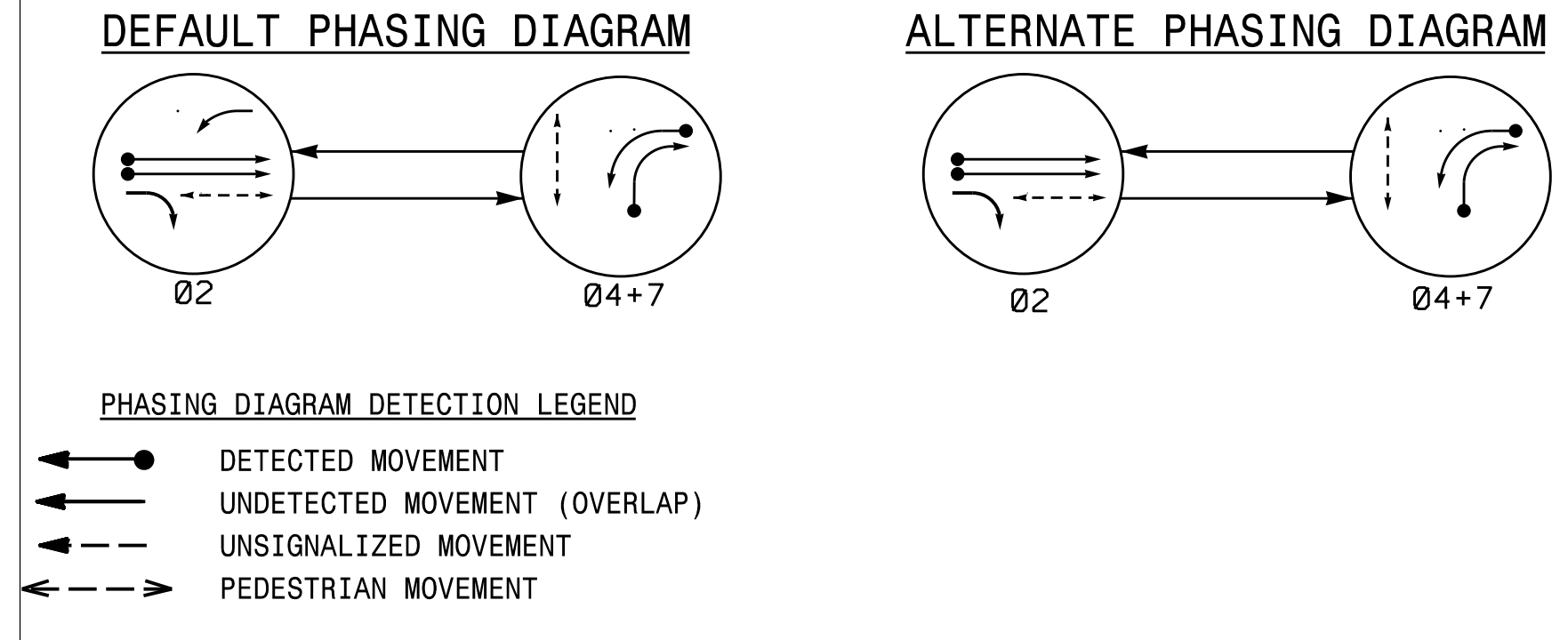
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- To provide a leading pedestrian interval on phase 6, program FYA heads 71, 72 and 23 to delay for 3 seconds after the start of the phase 6 walk interval. See electrical details.
- Refer to Pavement Marking Plans for proposed stopbar locations.

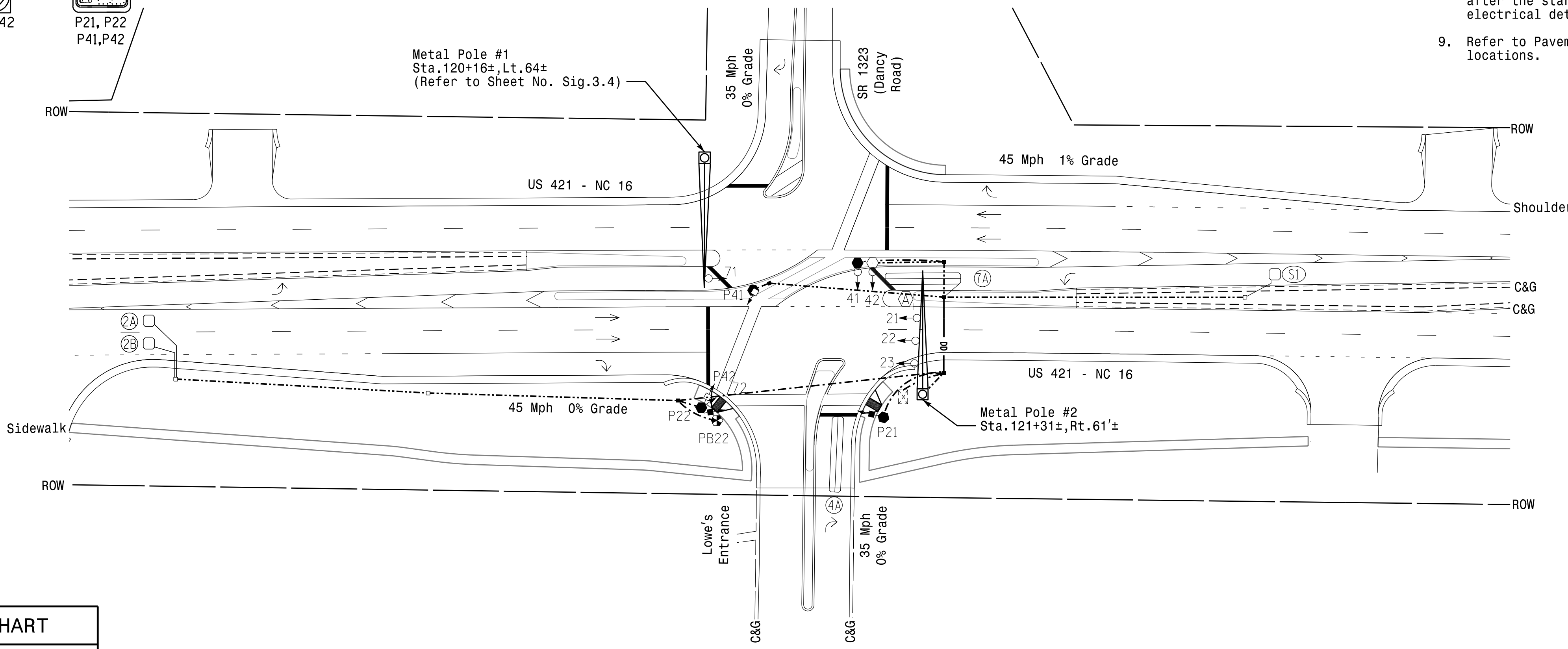
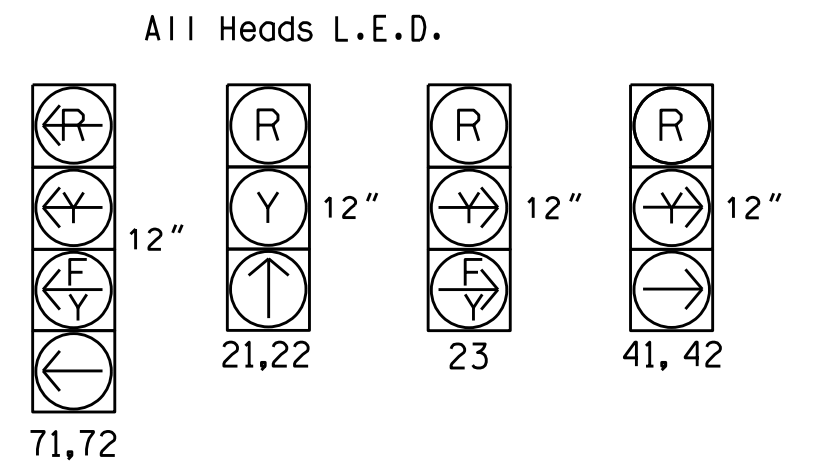
MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR				PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A	6X6	300	5	Y	2			-	X	X	X
2B	6X6	300	5	Y	2			-	X	X	X
4A	6X40	0	2-4-2	Y	4	15.0*		-	X	-	X
7A	6X40	0	2-4-2	Y	7	15.0		-	X	-	X
S1	6X6	200	3	Y	-			-	-	-	X

\* Disable delay during alternate phasing operation

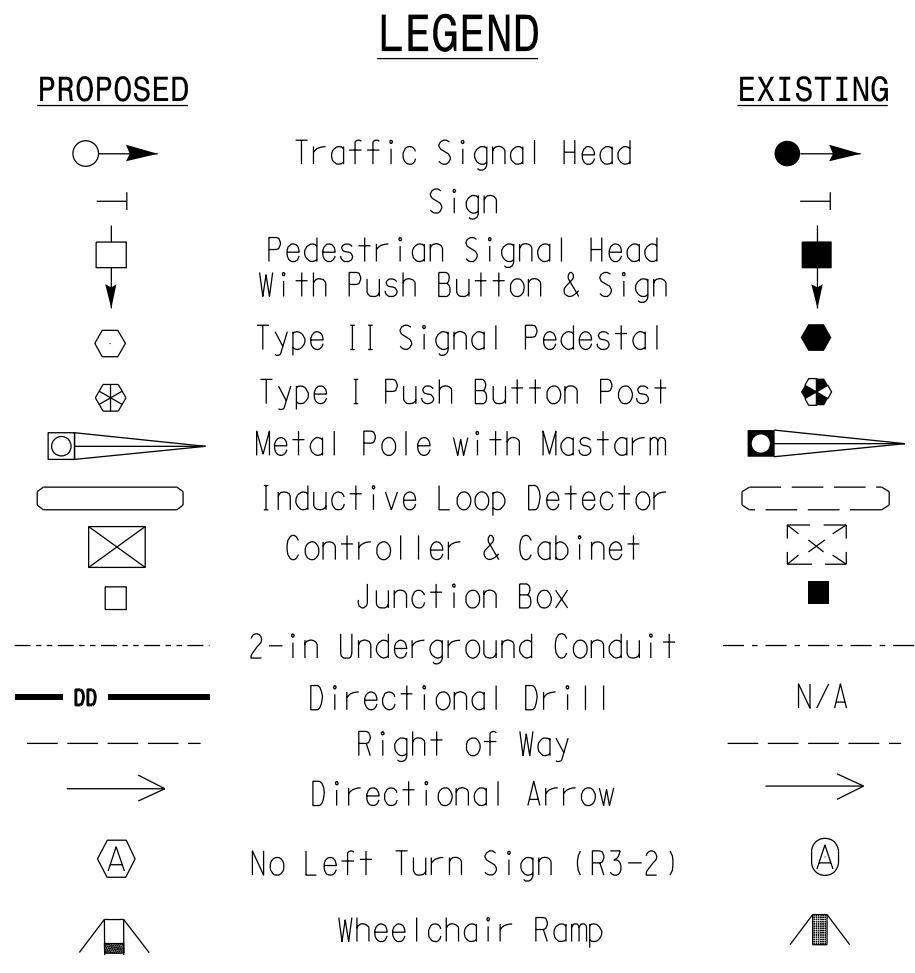
DEFAULT PHASING TABLE OF OPERATION				ALTERNATE PHASING TABLE OF OPERATION			
SIGNAL FACE	PHASE			SIGNAL FACE	PHASE		
	0 2	0 4 + 7	FLASH		0 2	0 4 + 7	FLASH
21,22	↑	R	Y	21,22	↑	R	Y
23	↔	R	↔	23	↔	R	↔
41,42	R	↔	R	41,42	R	↔	R
71,72	↔	↔	↔	71,72	↔	↔	↔
P21,P22	W	DW	DRK	P21,P22	W	DW	DRK
P41,P42	DW	W	DRK	P41,P42	DW	W	DRK



SIGNAL FACE I.D.



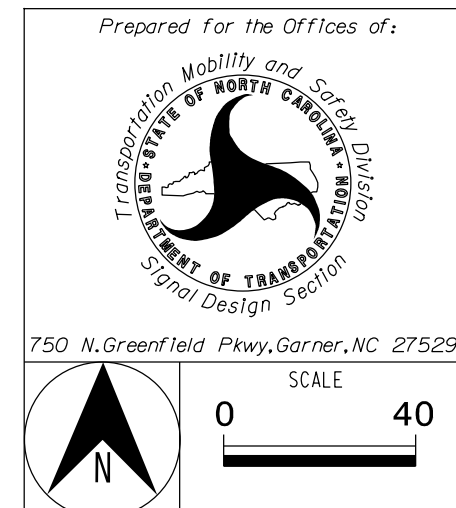
FEATURE	PHASE		
	2	4	7
Walk *	7	7	-
Ped Clear *	17	12	-
Min Green	12	7	7
Passage *	6.0	2.0	2.0
Max 1 *	60	30	30
Yellow Change	4.5	3.0	3.0
Red Clear	1.3	1.9	2.3
Added Initial *	1.5	-	-
Maximum Initial *	34	-	-
Time Before Reduction *	15	-	-
Time To Reduce *	30	-	-
Minimum Gap	3.4	-	-
Advance Walk	**	-	-
Non Lock Detector	-	X	X
Vehicle 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.

\*\* See note 8

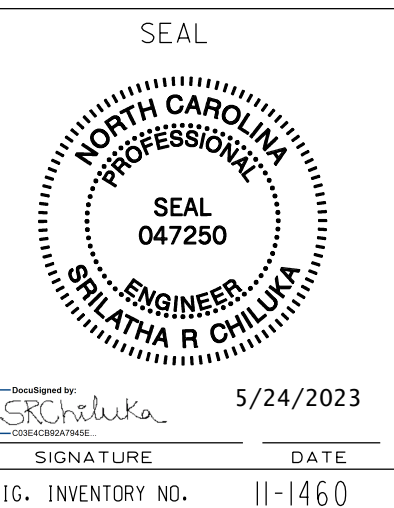
New Installation - Final Design



US 421-NC 16 at Lowe's Entrance	
Division 11 Wilkes County Wilkesboro	Division 11 Wilkes County Wilkesboro
PLAN DATE: May 2023	REVIEWED BY: M. Stygles
PREPARED BY: S.R. Chiluka	REVIEWED BY: J. Ma
REVISIONS	INIT. DATE



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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