

PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

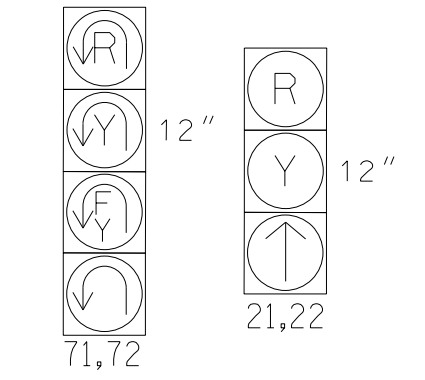


TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02	07	FLASH
21,22	↑	R	Y
71,72	↶	↷	↷

MAXTIME DETECTOR INSTALLATION CHART

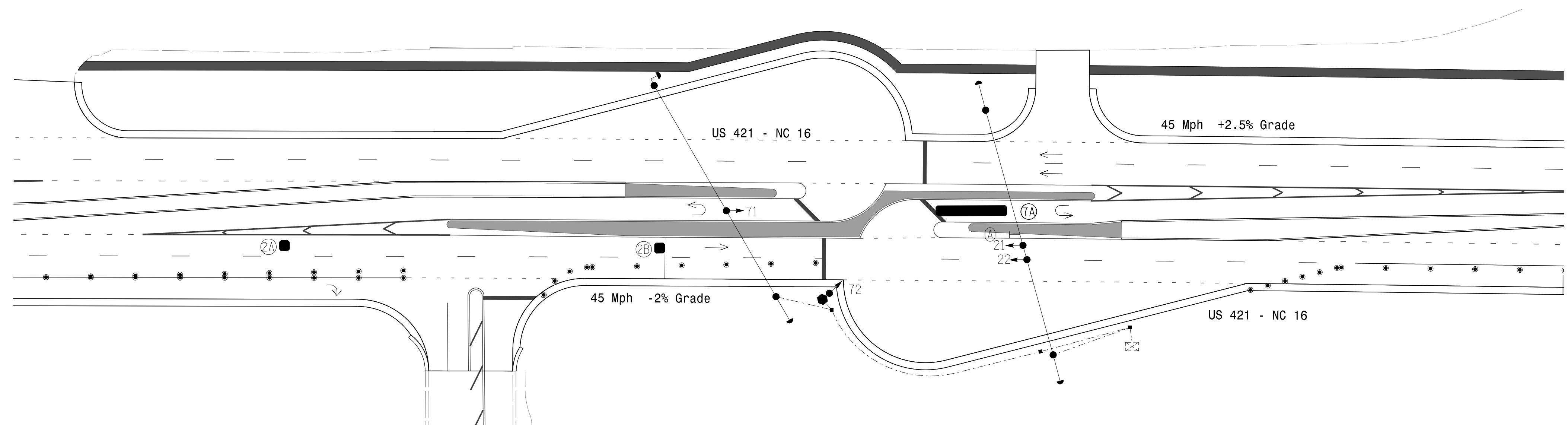
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING							
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN	NEW CARD	
2A	*	300	*	*	2	-	1.6	X	-	X	-	*
2B	*	90	*	*	2	-	-	X	-	X	-	*
7A	*	0	*	*	7	15.0	-	X	-	X	-	*

*Video Detection Zone

2 Phase Fully Actuated (Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.
4. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
5. Refer to Pavement Marking Plans for proposed stop bar locations.



MAXTIME TIMING CHART

FEATURE	PHASE	
	2	7
Walk *	-	-
Ped Clear *	-	-
Min Green	12	7
Passage *	2.0	2.0
Max 1 *	60	30
Yellow Change	4.7	3.0
Red Clear	1.1	3.9
Added Initial *	-	-
Maximum Initial *	-	-
Time Before Reduction *	-	-
Time To Reduce *	-	-
Minimum Gap	-	-
Advance Walk	-	-
Non Lock Detector	-	X
Vehicle 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.

LEGEND

PROPOSED		EXISTING
	Curb Ramp	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Traffic Signal Head	
	Sign	
	Pedestrian Signal Head	
	Pedestrian Signal Head With Push Button & Sign	
	Inductive Loop Detector	
	Video Detection Zone	N/A
	Construction Zone	N/A
	Controller & Cabinet	
	Junction Box	
	2-in Underground Conduit	
	Right of Way	
	Temporary Construction Easement	N/A
	Directional Arrow	
	Type II Signal Pedestal	
	No Left Turn Sign (R3-2)	
	Drum	N/A
	Skinny Drum	N/A

Signal Upgrade - Temporary Design 2 (Phase 13)

Prepared For the Offices of:

US 421-NC 16 at SR 1322 (Winkler Mill Road)/ Stonecrest Oaks Pkwy West U-Turn

Division 11 Wilkes County Wilkesboro

PLAN DATE: May 2023 REVIEWED BY: M.L. Stygles

PREPARED BY: S.R. Chiluka REVIEWED BY: J. Ma

REVISIONS	INIT.	DATE

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

5/24/2023

SIGNATURE DATE

SIG. INVENTORY NO. II-146212

2/14/2012 6:30:44 AM R:\Tran\fc\Signals\Design\Design\U5312-ll-XXXXT3_Ph 13_Sig _dsn_Winkler MillRd West U Turn.dgn schiluka