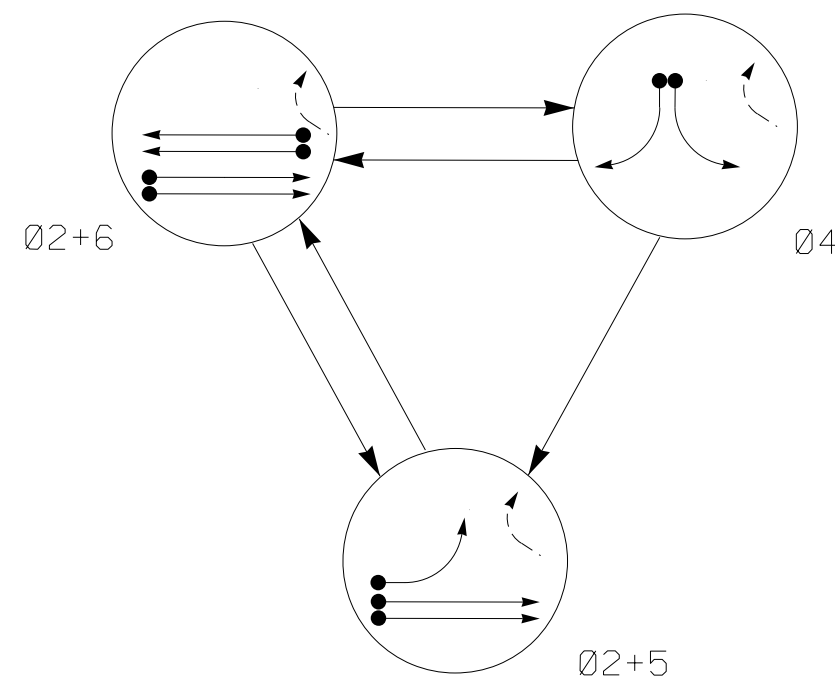


PHASING DIAGRAM

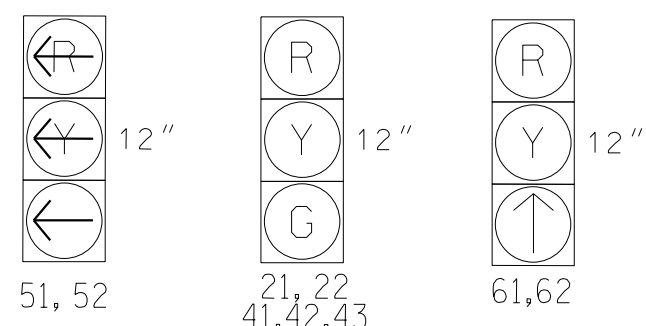


PHASING DIAGRAM DETECTION LEGEND

- ←●→ DETECTED MOVEMENT
- ←○→ UNDETECTED MOVEMENT (OVERLAP)
- ←---→ UNSIGNALIZED MOVEMENT
- ←- - -> PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

All Heads L.E.D.



SIGNAL FACE	PHASE			
	02+5	02+6	04	FLASH
21, 22	G	G	R	Y
41, 42, 43	R	R	G	R
51, 52	←	←R	←R	←Y
61, 62	R	↑	R	Y

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING						SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME		
2A,2B	*	300	*	*	2	Y	Y	-	1.6	-	-	*
2C,2D	*	90	*	*	2	Y	Y	-	-	-	-	*
4A	*	0	*	*	4	Y	Y	-	-	3.0	-	*
4B	*	0	*	*	4	Y	Y	-	-	-	-	*
5A	*	0	*	*	5	Y	Y	-	-	-	-	*
6A	*	300	*	*	6	Y	Y	-	1.6	-	-	*
6B	*	90	*	*	6	Y	Y	-	-	-	-	*

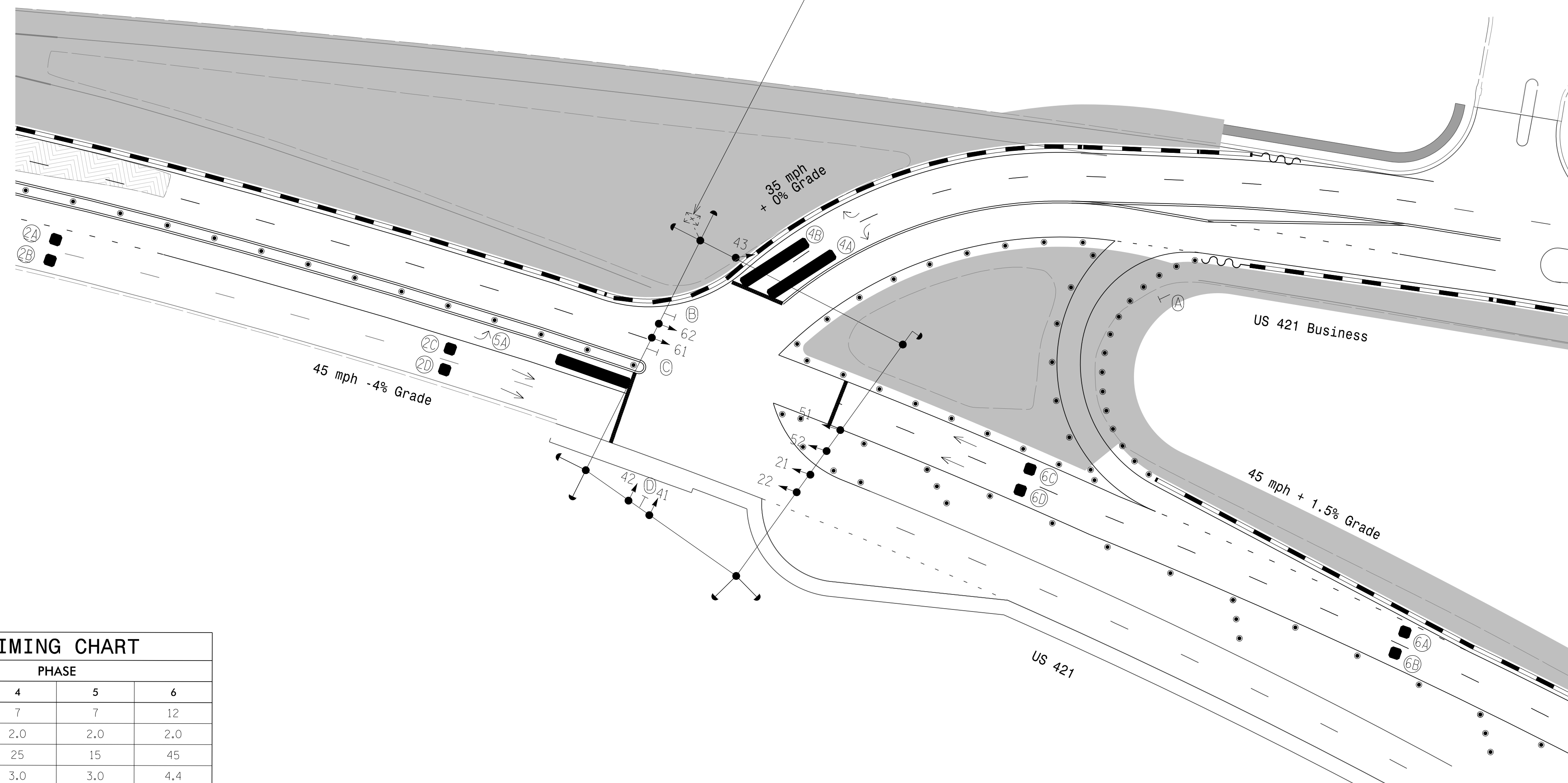
* Video Detection Zone

3 Phase Fully Actuated (Isolated)

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 operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- 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.
- Refer to Pavement Marking Plans for proposed stop bar locations.
- Reposition existing signal heads as shown on the plans.

PERFORM SURFACE GRADING AROUND THE CABINET FOUNDATION WITHOUT DISTURBING THE CABINET AND SIGNALS OPERATION.



PROPOSED	LEGEND	EXISTING
○	Signal Pole with Guy	●
○	Signal Pole with Sidewalk Guy	●
○	Traffic Signal Head	●
○	Sign	●
○	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	●
○	Yield Sign (R1-2)	○
○	No Right Turn (R3-1)	○
○	No Left Turn Sign (R3-2)	○
○	Left Arrow "Only" Sign (R3-5L)	○
○	Drum	N/A
○	Skinny Drum	N/A

OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	12	7	7	12
Extension 1 *	2.0	2.0	2.0	2.0
Max Green 1 *	45	25	15	45
Yellow Clearance	4.9	3.0	3.0	4.4
Red Clearance	1.4	3.2	2.4	1.6
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

* 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.

Signal Upgrade - Temporary Design 3 (Phase 3)

750 N. Greenfield Pkwy, Garner, NC 27529

US 421 at US 421 Business

Division 11 Wilkes County Wilkesboro

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

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

SEAL

5/24/2023

SCALE: 1" = 40'

REVISIONS: _____

INITIALS: _____ DATE: _____

SIGNATURE: _____ DATE: _____

SIG. INVENTORY NO. II-114613

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