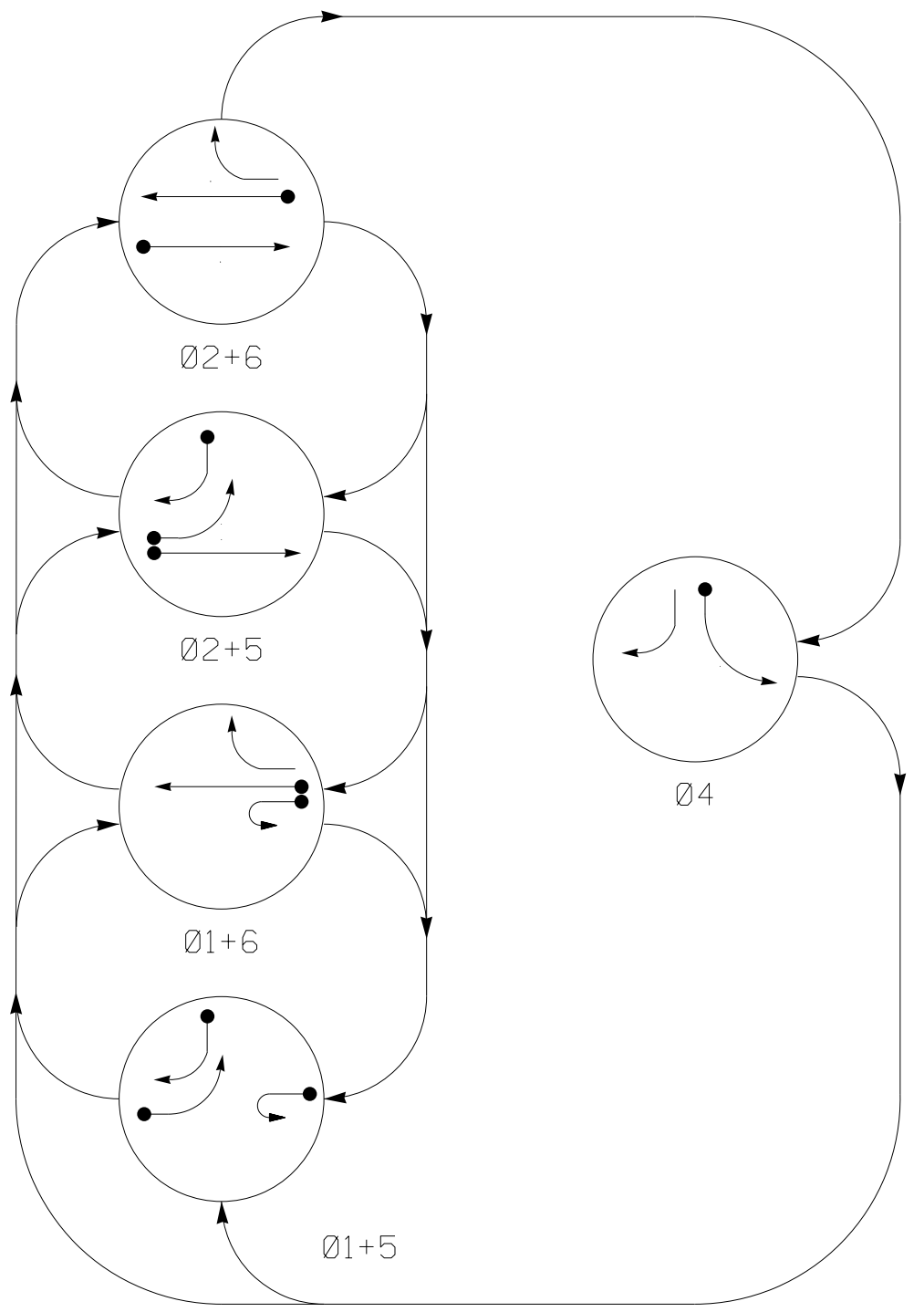


PHASING DIAGRAM



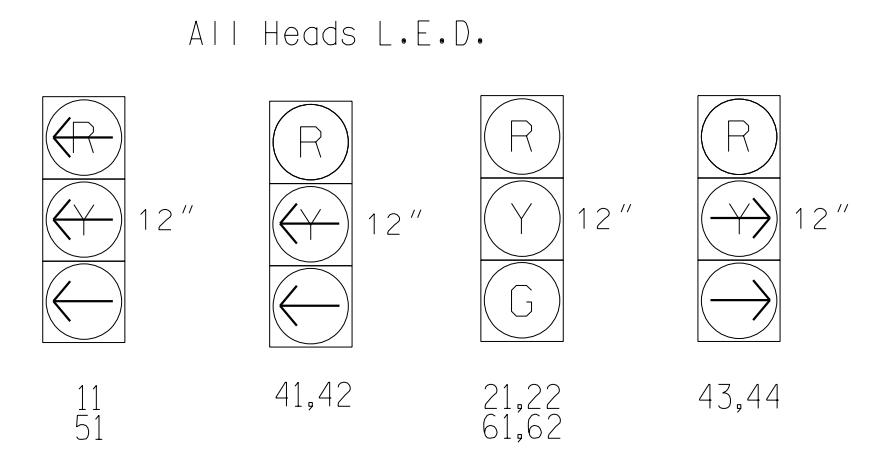
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE				
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø4
11	←	←	←	←	←
21, 22	R	R	G	G	R
41, 42	R	R	R	R	←
43	←	←	←	←	←
51	←	←	←	←	←
61, 62	R	G	R	G	R

SIGNAL FACE I.D.



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
1A	*	0	*	*	1	Y	Y	-	-	-	-	*
2A	*	300	*	*	2	Y	Y	-	1.6	-	-	*
2B	*	90	*	*	2	Y	Y	-	-	-	-	*
4A	*	0	*	*	4	Y	Y	-	-	-	-	*
5A	*	0	*	*	5	Y	Y	-	-	-	-	*
5B	*	0	*	*	5	Y	Y	-	-	15.0	-	*
6A	*	300	*	*	6	Y	Y	-	1.6	-	-	*
6B	*	90	*	*	6	Y	Y	-	-	-	-	*

*Video Detection Zone

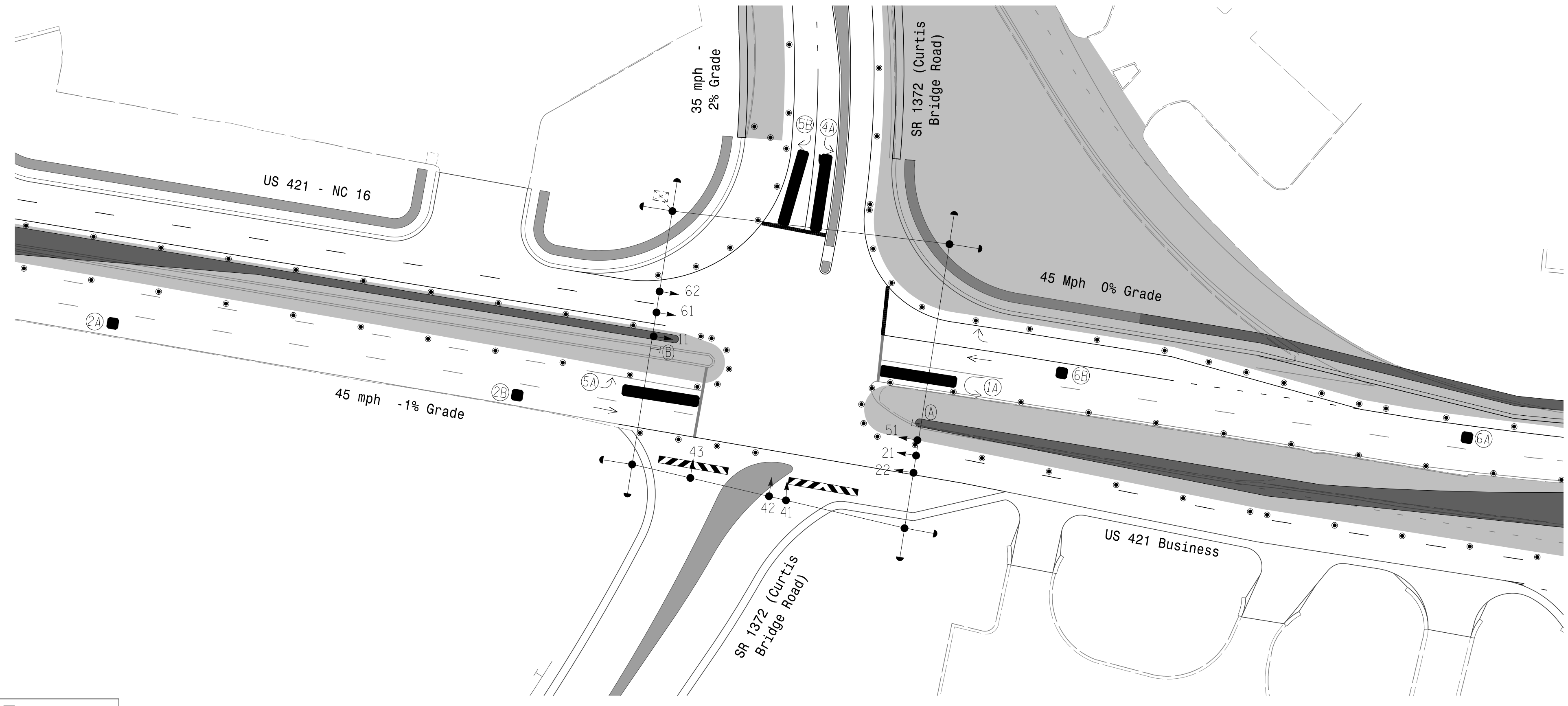
5 Phase Fully Actuated (Isolated)

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 1 and/or 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 this plan.

LEGEND

PROPOSED	EXISTING
○→ Traffic Signal Head	●→ Traffic Signal Head
○↪ Signal Pole with Sidewalk Guy Sign	●↪ Signal Pole with Sidewalk Guy Sign
⊥ Pedestrian Signal Head	⊥ Pedestrian Signal Head
○ Type II Signal Pedestal	● Type II Signal Pedestal
▬ Video Detection Zone	N/A
⊠ Inductive Loop Detector Controller & Cabinet Junction Box	⊠ Inductive Loop Detector Controller & Cabinet Junction Box
□ 2-in Underground Conduit	□ 2-in Underground Conduit
N/A Right of Way	N/A Right of Way
→ Directional Arrow	→ Directional Arrow
▬ Construction Zone	N/A
○ Wood Pole	● Wood Pole
● Drum	N/A
● Skinny Drum	N/A
Ⓐ "LEFT TURN SIGNAL" Sign (R10-10L)	Ⓐ "LEFT TURN SIGNAL" Sign (R10-10L)
Ⓑ "U TURN SIGNAL" Sign	Ⓑ "U TURN SIGNAL" Sign



OASIS 2070 TIMING CHART

FEATURE	PHASE				
	1	2	4	5	6
Min Green 1 *	7	12	7	7	12
Extension 1 *	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	15	45	25	20	45
Yellow Clearance	3.0	4.6	3.0	3.0	4.5
Red Clearance	4.2	1.4	3.5	3.3	1.1
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	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 2(Phase 2)

750 N. Greenfield Pkwy, Garner, NC 27529

US 421 Business at Curtis Bridge Road

Division 11 Wilkes County Wilkesboro

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

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

SEAL

SCALE: 1" = 40'

REVISIONS: _____ INIT. DATE

DocuSigned by: S.R. Chiluka 2/6/2023

SIG. INVENTORY NO. II-0944T2

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