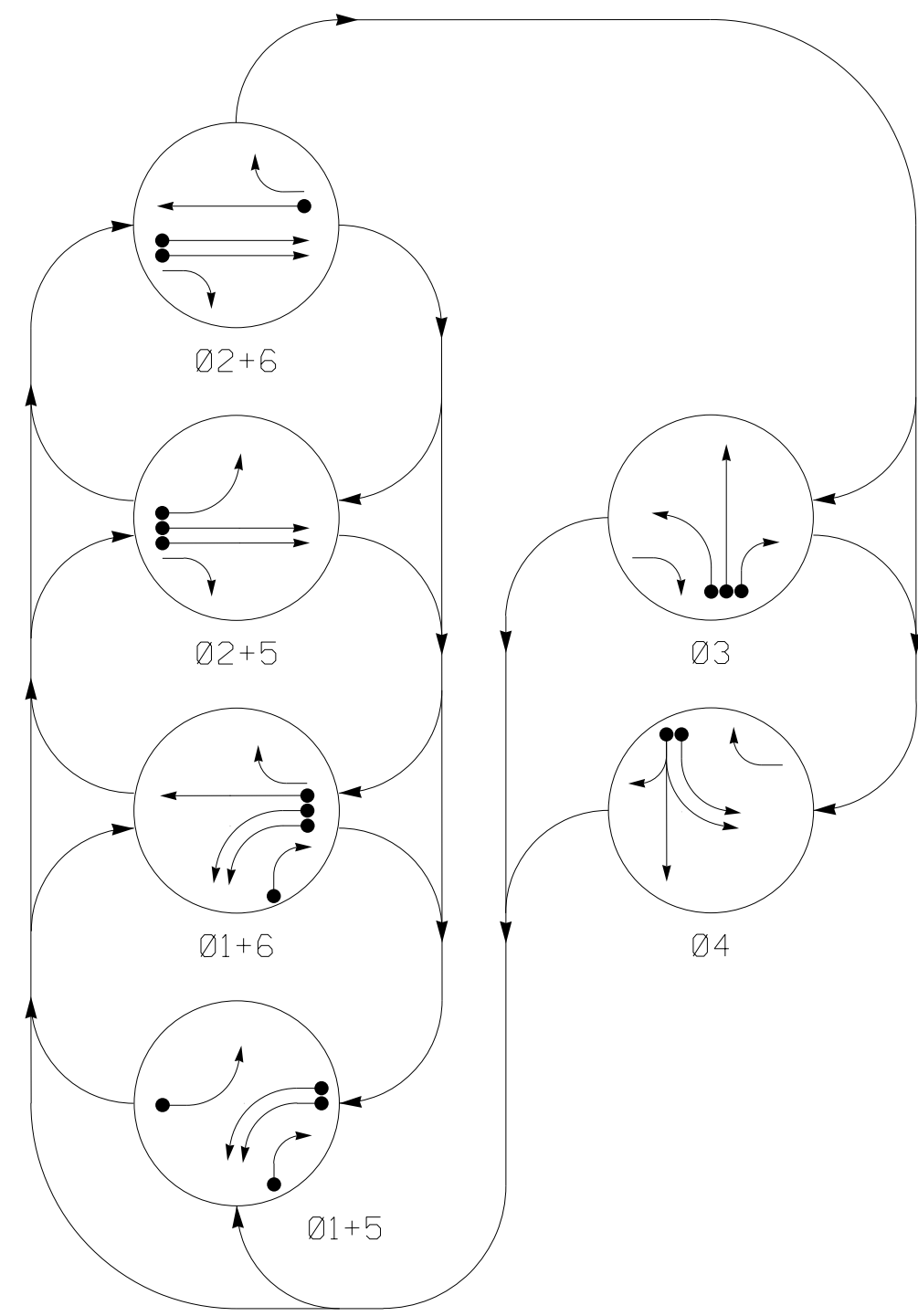


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

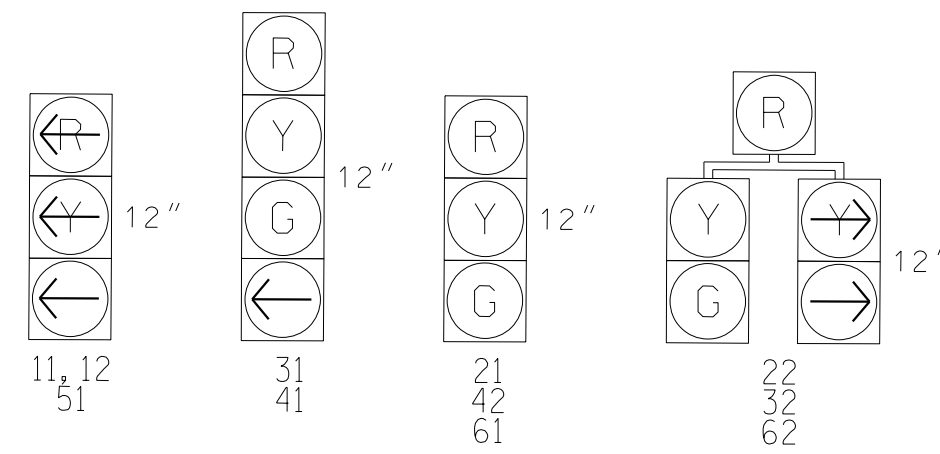


TABLE OF OPERATION

SIGNAL FACE	PHASE						FLASH
	01+5	01+6	02+5	02+6	03	04	
11, 12	←	←	←	←	←	←	
21	←	←	←	←	←	←	
22	←	←	←	←	←	←	
31	←	←	←	←	←	←	
32	←	←	←	←	←	←	
41	←	←	←	←	←	←	
42	←	←	←	←	←	←	
51	←	←	←	←	←	←	
61	←	←	←	←	←	←	
62	←	←	←	←	←	←	

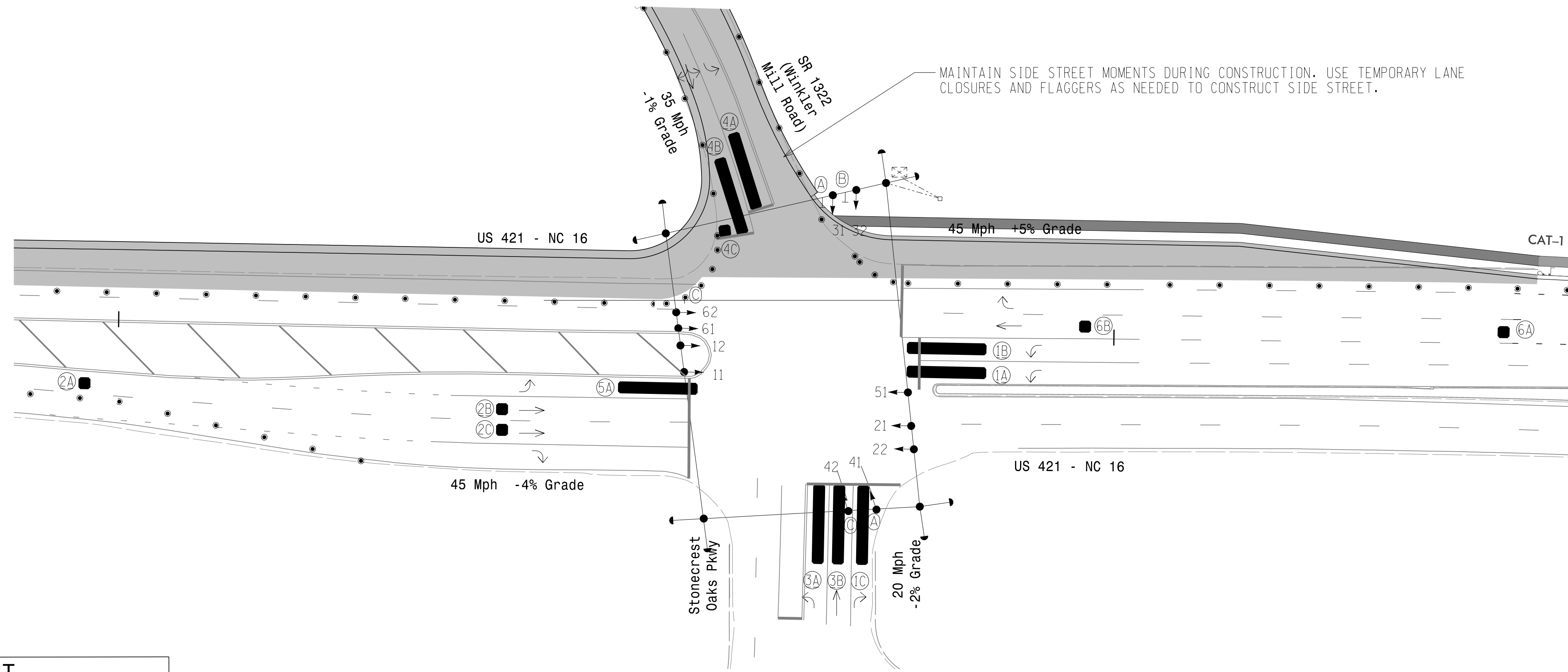
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD	
1A, 1B	*	+5	*	*	1	Y	Y	-	-	-	-	*
1C	*	0	*	*	1	Y	Y	-	-	15	-	*
2A	*	300	*	*	2	Y	Y	-	1.6	-	-	*
2B, 2C	*	90	*	*	2	Y	Y	-	-	-	-	*
3A	*	0	*	*	3	Y	Y	-	-	3	-	*
3B	*	0	*	*	3	Y	Y	-	-	-	-	*
4A	*	0	*	*	4	Y	Y	-	-	3	-	*
4B	*	0	*	*	4	Y	Y	-	-	10	-	*
4C	*	0	*	*	4	Y	Y	-	-	15	-	*
5A	*	+5	*	*	5	Y	Y	-	-	-	-	*
6A	*	300	*	*	6	Y	Y	-	1.6	-	-	*
6B	*	90	*	*	6	Y	Y	-	-	-	-	*

*Video Detection Zone

6 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 5 may be lagged.
- The order of phase 3 and 4 may be reversed.
- 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.



OASIS 2070 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1	2.0	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	25	60	15	15	25	60
Yellow Clearance	3.0	4.9	3.0	3.8	3.0	4.1
Red Clearance	3.4	1.5	3.3	2.4	2.9	1.5
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	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.

LEGEND

- | | |
|--|--|
| PROPOSED | EXISTING |
| ○ → Traffic Signal Head | ● → Traffic Signal Head |
| ○ → Signal Pole with Sidewalk Guy | ● → Signal Pole with Sidewalk Guy |
| ▬ Video Detection Zone | N/A |
| □ Inductive Loop Detector | □ Inductive Loop Detector |
| □ Controller & Cabinet | □ Controller & Cabinet |
| □ Junction Box | □ 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 |
| (A) Left Arrow "Only" Sign (R3-5L) | (A) Left Arrow "Only" Sign (R3-5L) |
| (B) Combined Through and Left Arrow Sign (R3-6L) | (B) Combined Through and Left Arrow Sign (R3-6L) |
| (C) Right Arrow "Only" Sign (R3-5R) | (C) Right Arrow "Only" Sign (R3-5R) |
| ● Drum | N/A |
| ○ Skinny Drum | N/A |

New Installation - Temporary Design 1(Phase 10)

Prepared For the Offices of:

US 421 - NC 16
at
SR 1322 (Winkler Mill Road) / Stonecrest Oaks Pkwy
 Division 11 Wilkes County Wilkesboro
 PLAN DATE: May 2023 REVIEWED BY: M.L. Stygles
 PREPARED BY: S.R. Chiluka REVIEWED BY: J. Ma
 SCALE: 1" = 40'
 REVISIONS: _____ INIT. DATE
 SIGNATURE: _____ DATE: 5/24/2023
 SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER S.R. CHILUKA
 SIG. INVENTORY NO. II-10441



2/14/2022 6:30:44 AM R:\Traffic\Signals\Design\Signals\90% Design\Plans\Temporary Signal Design\U5312-II-10441\Ph 10_Sig -dsn-Winkler Mill Rd.dgn schiluka