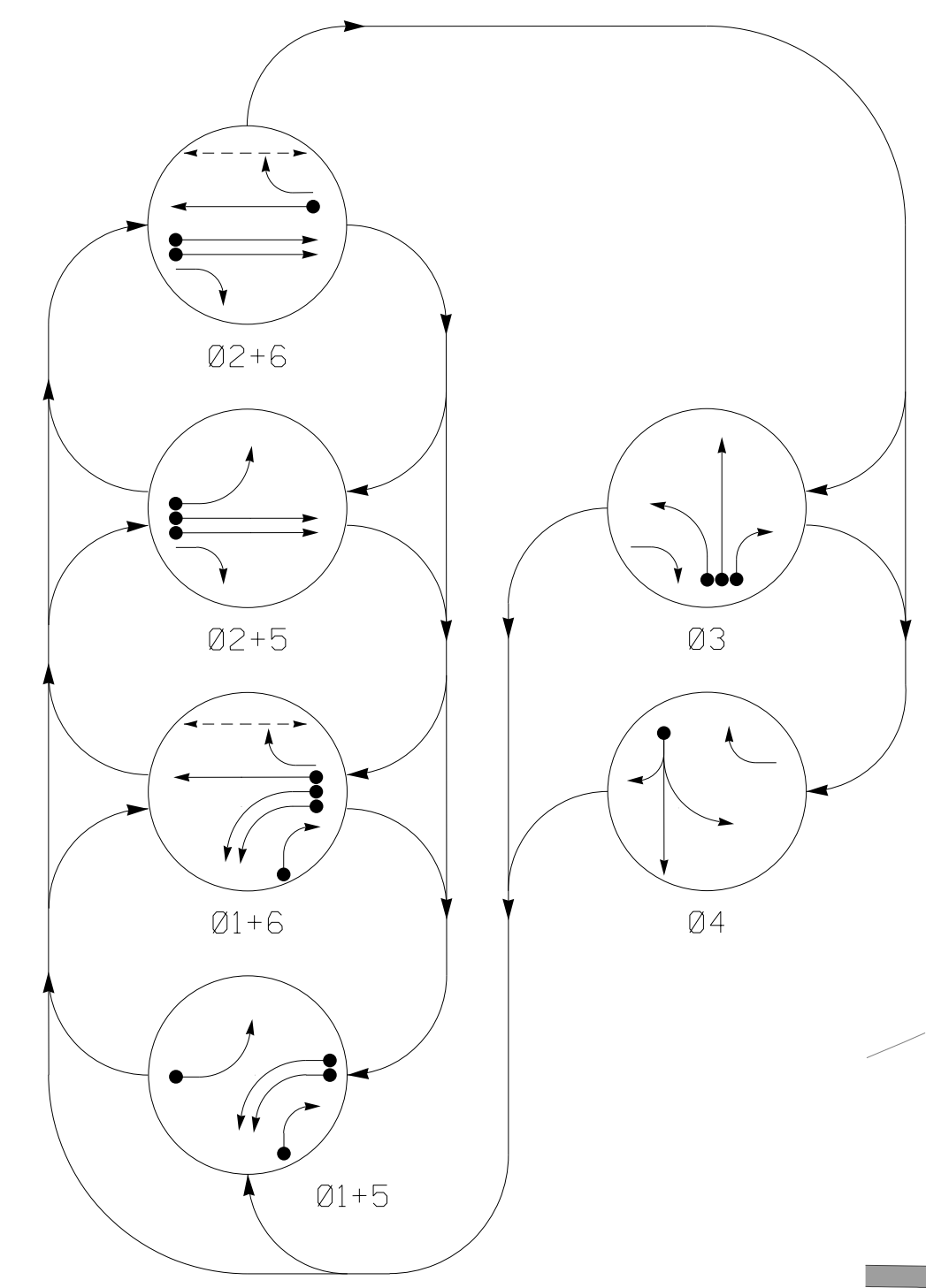


6 Phase Fully Actuated (Isolated)

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. Phase 1 and/or 5 may be lagged.
4. The order of phase 3 and 4 may be reversed.
5. Set all detector units to presence mode.
6. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
7. Omit "walk" and flashing "Don't Walk" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Refer to Pavement Marking Plans for proposed stop bar locations.
10. Reposition existing signal heads as shown on this plan.

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

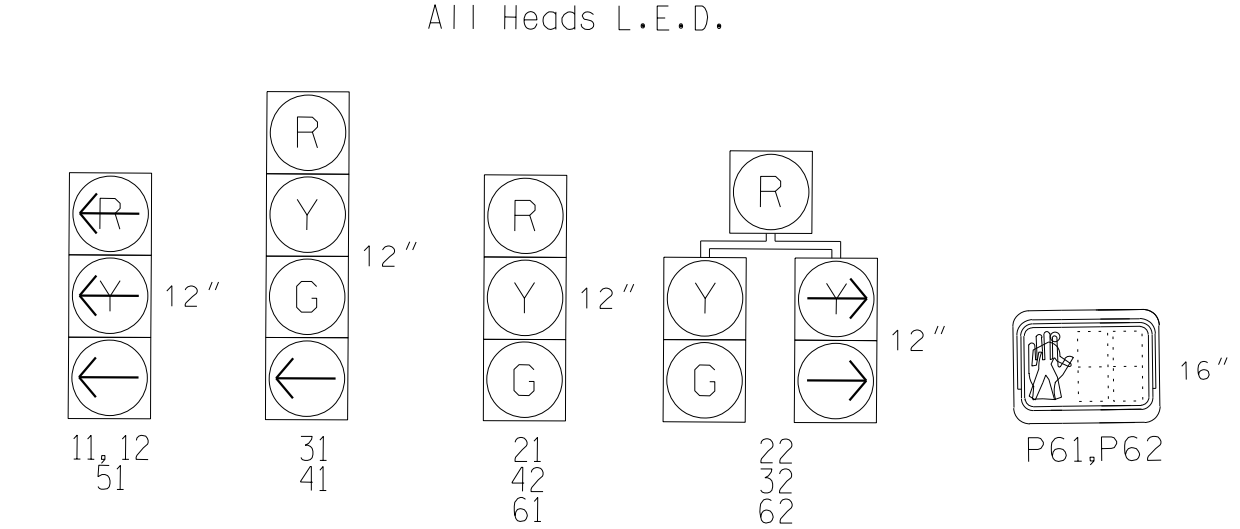


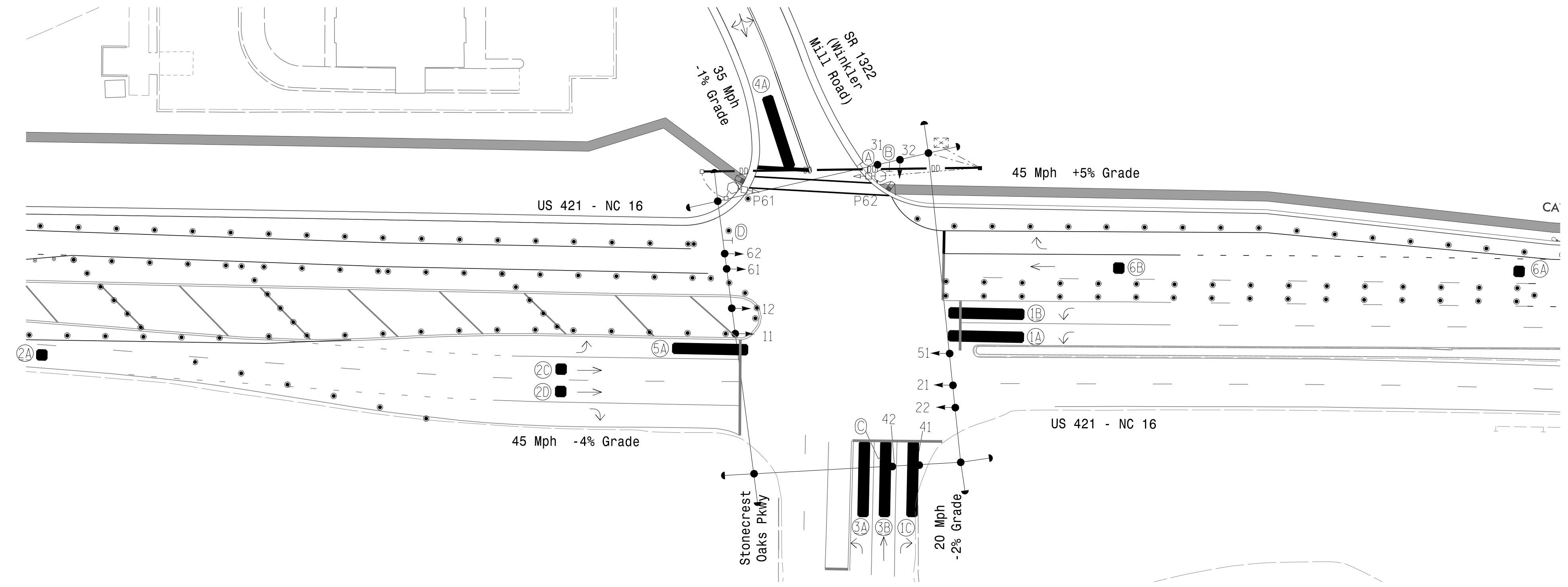
TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | | | | FLASH |
|-------------|-------|------|------|------|----|----|-------|
| | 01+5 | 01+6 | 02+5 | 02+6 | 03 | 04 | |
| 11, 12 | R | R | R | R | R | R | |
| 21 | R | R | G | G | R | R | Y |
| 22 | R | R | G | G | R | R | Y |
| 31 | R | R | R | R | G | R | |
| 32 | R | R | R | R | G | R | |
| 41 | R | R | R | R | R | G | |
| 42 | R | R | R | R | R | G | |
| 51 | R | R | R | R | R | R | |
| 61 | R | G | R | G | R | R | Y |
| 62 | R | G | R | G | R | R | Y |
| P61,P62 | DW | W | DW | W | DW | W | DRK |

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 | * | 350 | * | * | 2 | Y | Y | - | 1.6 | - | - | * |
| 2C, 2D | * | 90 | * | * | 2 | Y | Y | - | - | - | - | * |
| 3A | * | 0 | * | * | 3 | Y | Y | - | - | 3 | - | * |
| 3B | * | 0 | * | * | 3 | Y | Y | - | - | - | - | * |
| 4A | * | 0 | * | * | 4 | Y | Y | - | - | 3 | - | * |
| 5A | * | +5 | * | * | 5 | Y | Y | - | - | - | - | * |
| 6A | * | 300 | * | * | 6 | Y | Y | - | 1.6 | - | - | * |
| 6B | * | 90 | * | * | 6 | Y | Y | - | - | - | - | * |

*Video Detection Zone



LEGEND

| PROPOSED | EXISTING |
|----------|----------|
| | |
| | |
| | |
| | |
| | |
| | N/A |
| | |
| | |
| | |
| | |
| N/A | |
| | |
| | N/A |
| | |
| | |
| | |
| | |
| | |

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 | 3.5 | 2.4 | 3.3 | 1.6 |
| Walk 1 * | - | - | - | - | - | 7 |
| Don't Walk 1 | - | - | - | - | - | 18 |
| 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.

Signal Upgrade - Temporary Design 2 (Phase 11)

750 N. Greenfield Pkwy, Garner, NC 27529

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

SEAL

5/24/2023

SCALE: 1" = 40'

REVISIONS: _____ INIT. DATE

2/14/2012 6:30:44 AM R:\Traffic\Signals\Design\Signals\90% Design Plans\Temporary Signal Design\US312_11-1044T2_Ph 11_Sig_dsn_Winkler Mill Rd.dgn