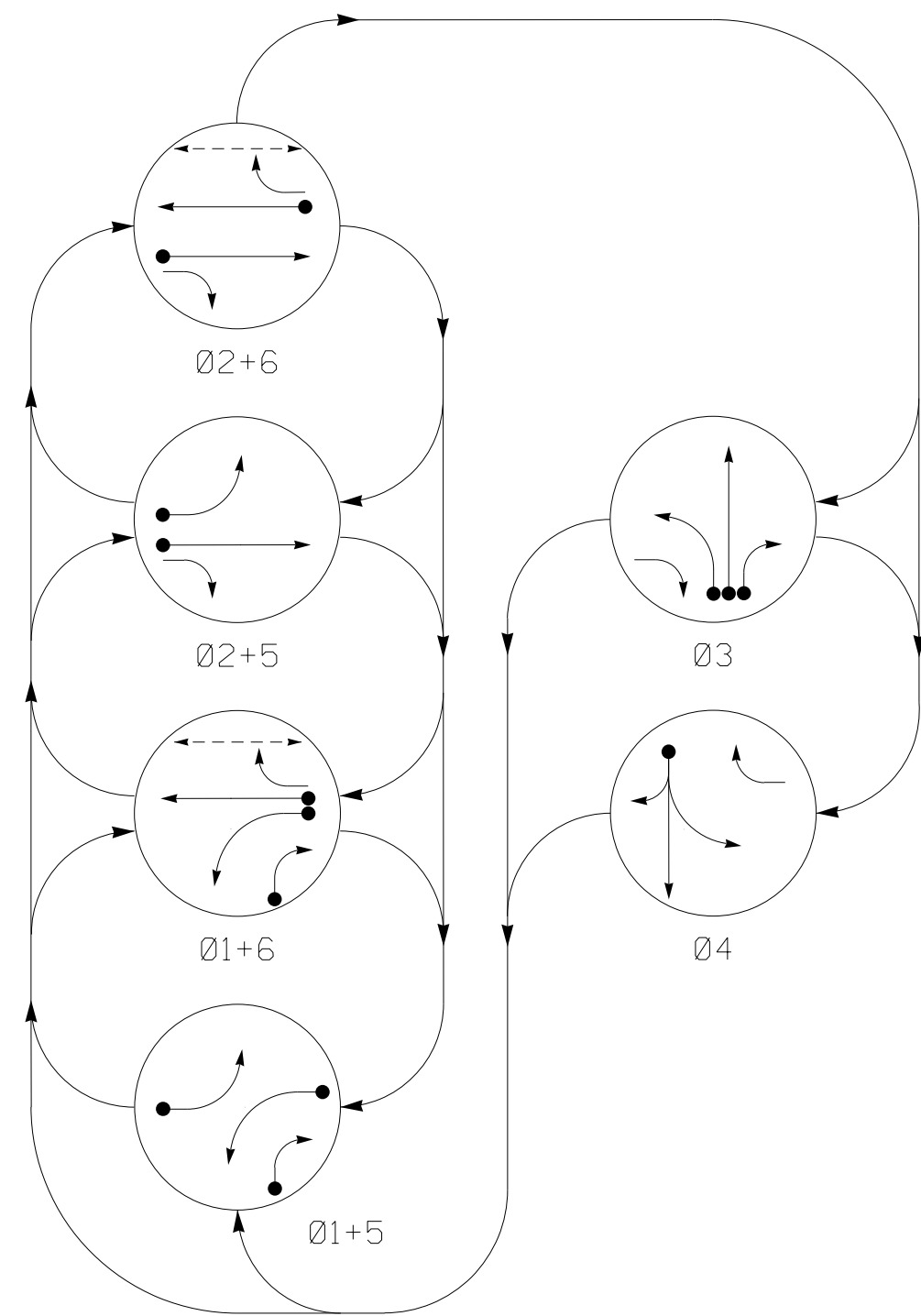


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.

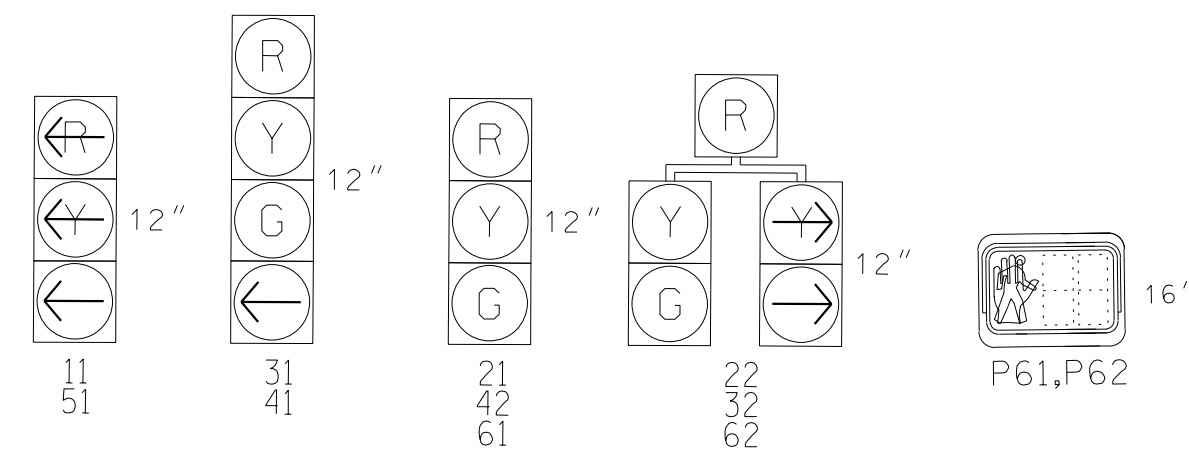


TABLE OF OPERATION

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

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

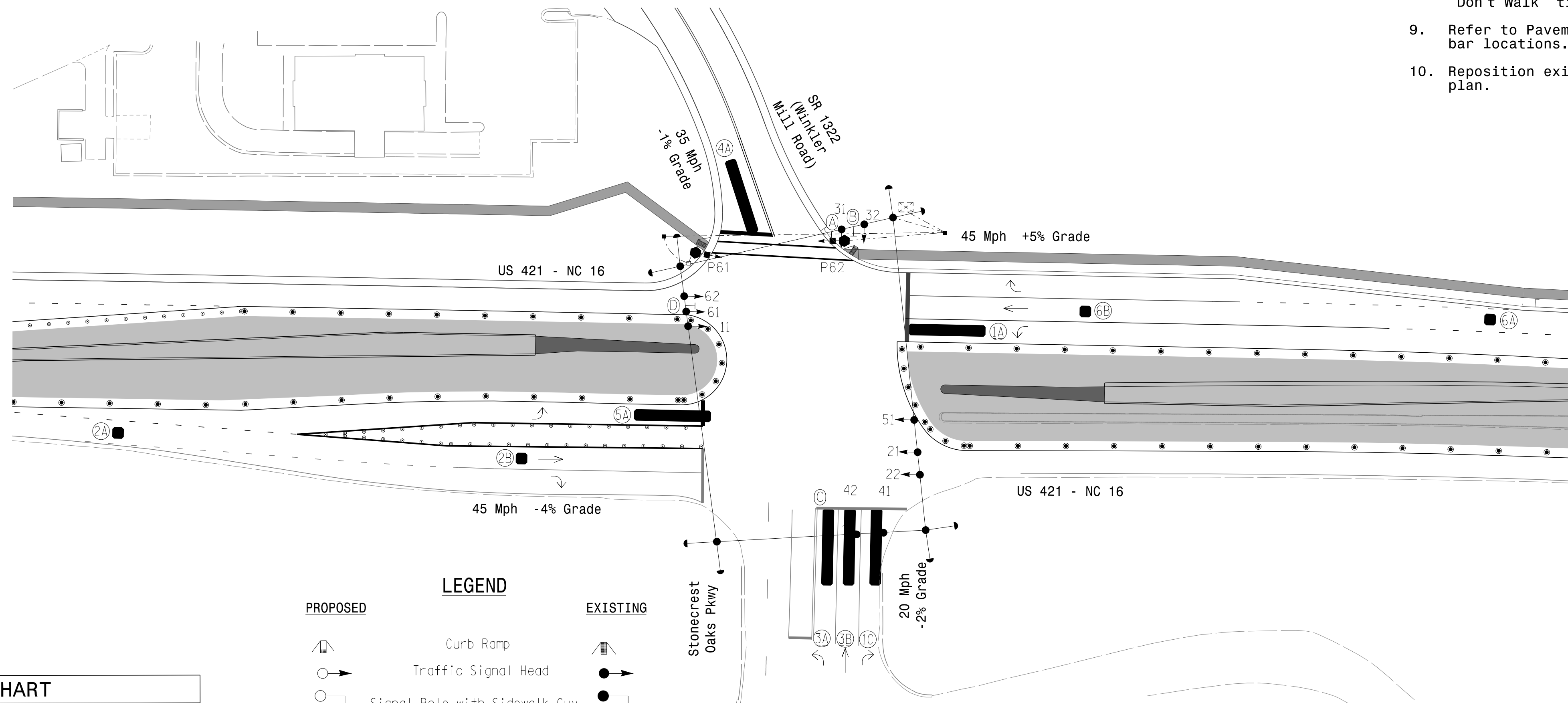
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | DETECTOR PROGRAMMING | | | | SYSTEM LOOP | NEW CARD | |
|------|-----------|----------------------------|-------|----------|----------------------|---------|-----------|--------------|-------------|----------|------------|
| | | | |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

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.
- Omit "walk" and flashing "Don't Walk" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Refer to Pavement Marking Plans for proposed stop bar locations.
- Reposition existing signal heads as shown on this plan.



LEGEND

- | PROPOSED | EXISTING |
|----------|----------|
| | |
| | |
| | |
| | N/A |
| | |
| | |
| | |
| | |
| | |
| | |
| | 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 | 3.5 | 1.5 | 3.5 | 2.6 | 3.3 | 1.5 |
| 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.

2/14/2012 6:30:44 AM R:\Traffic\Signals\Design\Signals\90% Design Plans\Temporary Signal Design\U5312_11-1044T3_Ph 12_Sig_dsn_Winkler Mill Rd.dgn schiluka



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade - Temporary Design 3 (Phase 12)

| | | | |
|--|--|---|--|
| | <p>US 421 - NC 16 at SR 1322 (Winkler Mill Road)</p> | | |
| | <p>Division 11 Wilkes County Wilkesboro</p> <p>PLAN DATE: May 2023 REVIEWED BY: M.L. Stygles</p> <p>PREPARED BY: S.R. Chiluka REVIEWED BY: J. Ma</p> | <p>750 N. Greenfield Pkwy, Garner, NC 27529</p> <p>SCALE: 0 40 1"=40'</p> | |

5/24/2023
S. R. Chiluka
DATE
SIG. INVENTORY NO. 11-1044T3