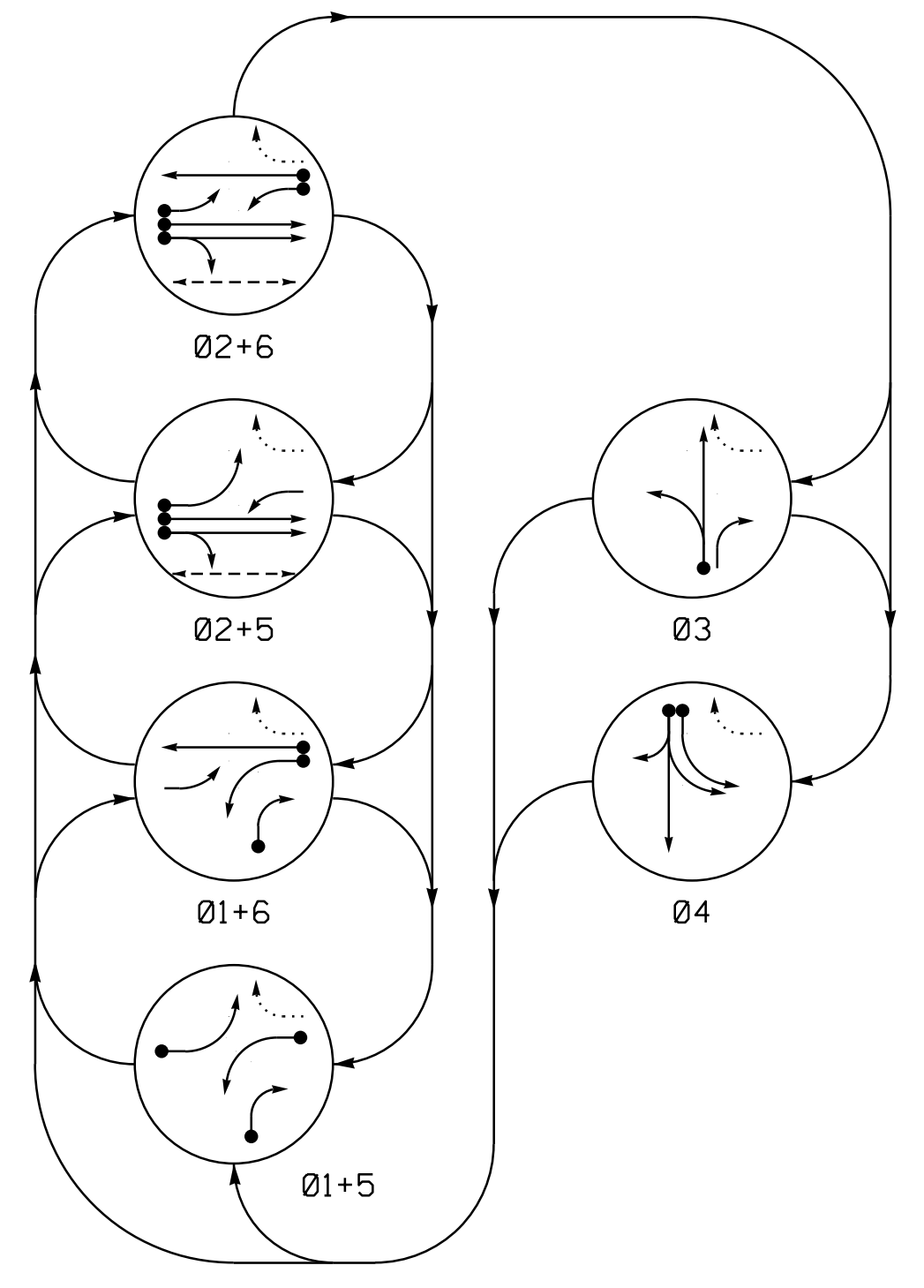


PHASING DIAGRAM



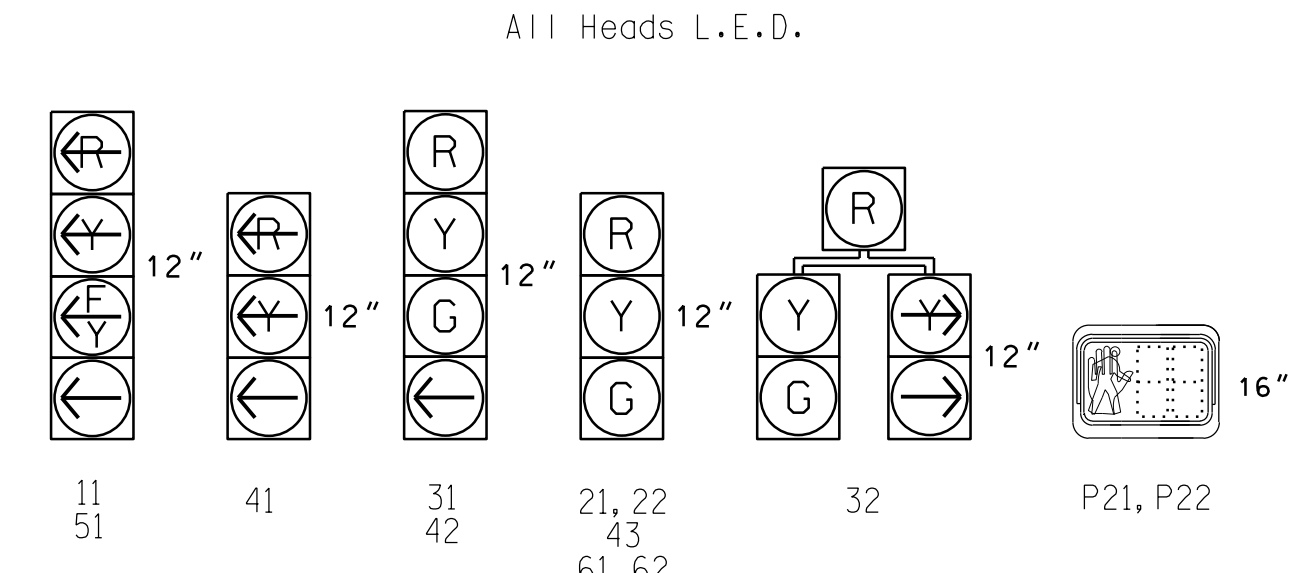
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | | | | F L D H S |
|-------------|-------|------|------|------|----|----|-----------|
| | 01+5 | 01+6 | 02+5 | 02+6 | 03 | 04 | |
| 11 | - | - | F | F | R | R | Y |
| 21, 22 | R | R | G | G | R | R | Y |
| 31 | R | R | R | R | G | R | R |
| 32 | R | R | R | R | G | R | R |
| 41 | R | R | R | R | R | G | R |
| 42 | R | R | R | R | R | G | R |
| 43 | R | R | R | R | R | G | R |
| 51 | - | F | - | F | R | R | Y |
| 61, 62 | R | G | R | G | R | R | Y |
| P21, P22 | DW | DW | W | W | DW | DW | DRK |

SIGNAL FACE I.D.



MAXTIME DETECTOR INSTALLATION CHART

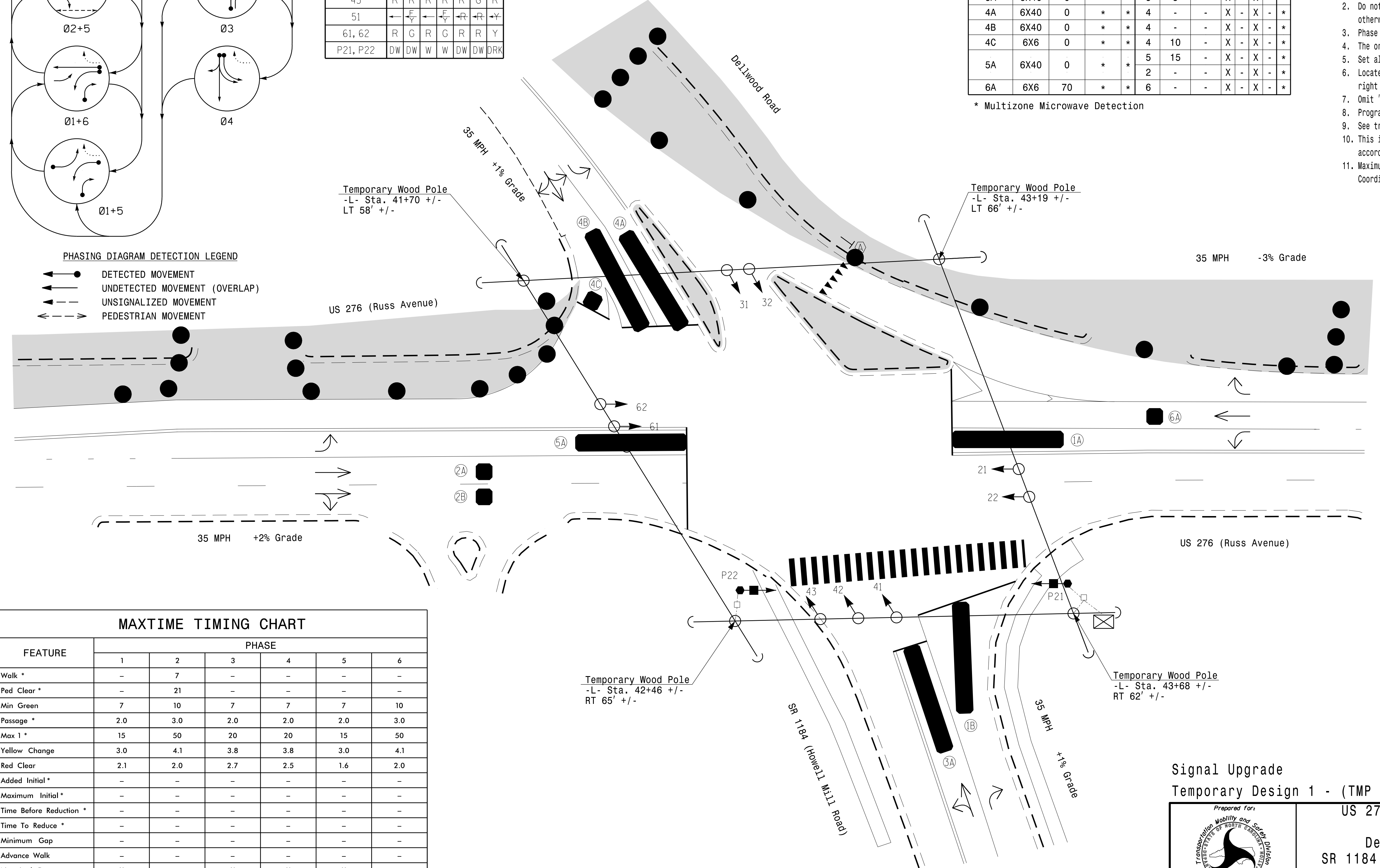
| ZONE | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PROGRAMMING | | | | | | |
|------|-----------|----------------------------|-------|----------|-------------|------------|-------------|----------------------|-------------------------|----------|---|
| | | | | | CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND ADDED INITIAL | CALL DELAY DURING GREEN | NEW CARD | |
| 1A | 6X40 | 0 | * | * | 1 | 15 | - | X | X | - | * |
| 1B | 6X40 | 0 | * | * | 1 | 15 | - | X | X | - | * |
| 2A | 6X6 | 70 | * | * | 2 | - | - | X | X | - | * |
| 2B | 6X6 | 70 | * | * | 2 | - | - | X | X | - | * |
| 3A | 6X40 | 0 | * | * | 3 | 3 | - | X | X | - | * |
| 4A | 6X40 | 0 | * | * | 4 | - | - | X | X | - | * |
| 4B | 6X40 | 0 | * | * | 4 | - | - | X | X | - | * |
| 4C | 6X40 | 0 | * | * | 4 | 10 | - | X | X | - | * |
| 5A | 6X40 | 0 | * | * | 5 | 15 | - | X | X | - | * |
| 6A | 6X6 | 70 | * | * | 2 | - | - | X | X | - | * |

* Multizone Microwave Detection

6 Phase Fully Actuated D14-12_Waynesville

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 flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- See traffic control plans for stop bar locations.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



MAXTIME TIMING CHART

| FEATURE | PHASE | | | | | |
|-------------------------|-------|------------|-----|-----|-----|------------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| Walk * | - | 7 | - | - | - | - |
| Ped Clear * | - | 21 | - | - | - | - |
| Min Green | 7 | 10 | 7 | 7 | 7 | 10 |
| Passage * | 2.0 | 3.0 | 2.0 | 2.0 | 2.0 | 3.0 |
| Max I * | 15 | 50 | 20 | 20 | 15 | 50 |
| Yellow Change | 3.0 | 4.1 | 3.8 | 3.8 | 3.0 | 4.1 |
| Red Clear | 2.1 | 2.0 | 2.7 | 2.5 | 1.6 | 2.0 |
| Added Initial * | - | - | - | - | - | - |
| Maximum Initial * | - | - | - | - | - | - |
| Time Before Reduction * | - | - | - | - | - | - |
| Time To Reduce * | - | - | - | - | - | - |
| Minimum Gap | - | - | - | - | - | - |
| Advance Walk | - | - | - | - | - | - |
| Non Lock Detector | X | - | X | X | X | - |
| Vehicle Recall | - | MIN RECALL | - | - | - | MIN RECALL |
| Dual Entry | - | - | - | - | - | - |

* 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 |
| ○ Modified Signal Head | ○ Modified Signal Head |
| ○ Pedestrian Signal Head With Push Button & Sign | ○ Pedestrian Signal Head With Push Button & Sign |
| ○ Signal Pole with Guy | ○ Signal Pole with Guy |
| ○ Signal Pole with Sidewalk Guy | ○ Signal Pole with Sidewalk Guy |
| □ Inductive Loop Detector | □ Inductive Loop Detector |
| □ Junction Box | □ Junction Box |
| --- 2-in Underground Conduit | --- 2-in Underground Conduit |
| --- Right of Way | --- Right of Way |
| → Directional Arrow | → Directional Arrow |
| ■ Microwave Detection Zone | N/A |
| ■ Construction Zone | N/A |
| ○ Type II Signal Pedestal | ○ Type II Signal Pedestal |
| ○ Yield Sign | ○ Yield Sign |

Signal Upgrade Temporary Design 1 - (TMP Phase I)

| | | |
|---|--|---|
| | <p>US 276 (Russ Avenue) at Dellwood Road/ SR 1184 (Howell Mill Road)</p> | |
| | <p>Division 14 Haywood County Waynesville</p> | <p>PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton</p> |
| <p>PREPARED BY: TS Popelka RKA PROJ. NO.: 16085 (040)</p> | <p>REVISIONS</p> | <p>DATE</p> |
| <p>SCALE: 1" = 20'</p> | <p>INIT.</p> | <p>DATE</p> |
| <p>Infrastructure Consulting Services, Inc. RKA RAMEY KEMP ASSOCIATES</p> | <p>SEAL</p> | <p>DATE: 04/11/2023</p> |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 14-035911