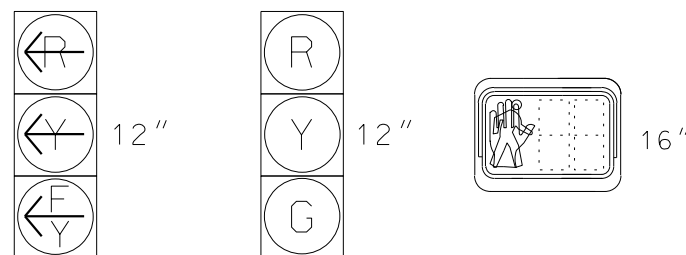


|                                                                                   |                               |
|-----------------------------------------------------------------------------------|-------------------------------|
|  | DETECTED MOVEMENT             |
|  | UNDETECTED MOVEMENT (OVERLAP)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

| SIGNAL<br>FACE | PHASE        |              |                       |
|----------------|--------------|--------------|-----------------------|
|                | 2<br>+<br>6  | 4<br>+<br>8  | F<br>L<br>A<br>S<br>H |
| 21             | <del>F</del> | <del>R</del> | <del>R</del>          |
| 22,23          | G            | R            | R                     |
| 41,42          | R            | G            | R                     |
| 61             | <del>F</del> | <del>R</del> | <del>R</del>          |
| 62,63          | G            | R            | R                     |
| 81,82          | R            | G            | R                     |
| P21, P22       | W            | DW           | DRK                   |
| P41, P42       | DW           | W            | DRK                   |
| P61, P62       | W            | DW           | DRK                   |

All Heads L.E.D.



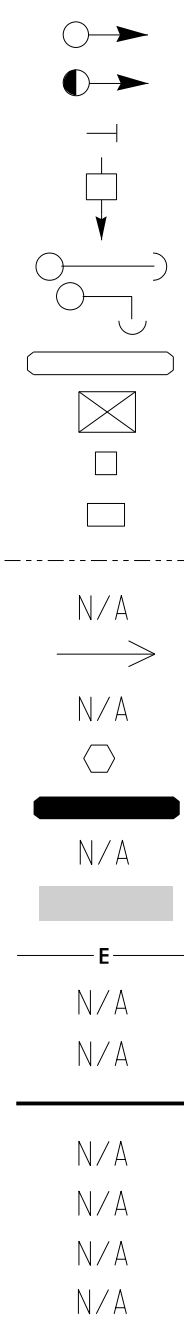
|    |       |          |
|----|-------|----------|
| 21 | 22,23 | P21, P22 |
| 61 | 41,42 | P61, P62 |
|    | 62,63 | P81, P82 |

| DETECTOR |              |                                     |       |          | PROGRAMMING   |               |                |        |               |      |                    |          |
|----------|--------------|-------------------------------------|-------|----------|---------------|---------------|----------------|--------|---------------|------|--------------------|----------|
| LOOP     | SIZE<br>(FT) | DISTANCE<br>FROM<br>STOPBAR<br>(FT) | TURNS | NEW LOOP | CALL<br>PHASE | DELAY<br>TIME | EXTEND<br>TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN | NEW CARD |
| 2B       | *            | 0                                   | *     | X        | 2             | 3.0           | -              | X      | -             | X    | -                  | *        |
| 4A       | *            | 0                                   | *     | -        | 4             | 5.0           | -              | X      | -             | X    | -                  | *        |
| 4B       | *            | 0                                   | *     | -        | 4             | 5.0           | -              | X      | -             | X    | -                  | *        |
| 6B       | *            | 0                                   | *     | X        | 6             | 3.0           | -              | X      | -             | X    | -                  | *        |
| 8A       | *            | 0                                   | *     | X        | 8             | 5.0           | -              | X      | -             | X    | -                  | *        |
| 8B       | *            | 0                                   | *     | X        | 8             | 5.0           | -              | X      | -             | X    | -                  | *        |

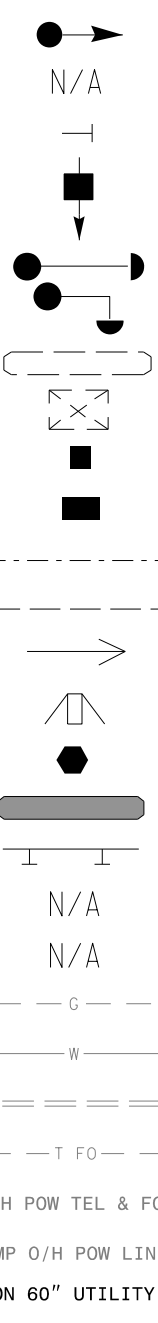
\* Multi-Zone Microwave Detection Zone

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reposition existing signal heads numbered 21, 22, 23 and 61.
4. Unbag and reconnect existing pedestrian heads and pushbuttons P21 and P22.
5. Set all detector units to presence mode.
6. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PROPOSED



EXISTING



| MAXTIME TIMING CHART    |            |     |            |     |
|-------------------------|------------|-----|------------|-----|
| FEATURE                 | PHASE      |     |            |     |
|                         | 2          | 4   | 6          | 8   |
| Walk *                  | 14         | —   | 14         | 14  |
| Ped Clear               | 13         | —   | 21         | 24  |
| Min Green *             | 12         | 7   | 12         | 7   |
| Passage *               | 2.0        | 2.0 | 2.0        | 2.0 |
| Max I *                 | 60         | 40  | 60         | 40  |
| Yellow Change           | 4.5        | 3.5 | 4.5        | 3.5 |
| Red Clear               | 1.6        | 3.5 | 1.6        | 3.5 |
| Added Initial *         | —          | —   | —          | —   |
| Maximum Initial *       | —          | —   | —          | —   |
| Time Before Reduction * | —          | —   | —          | —   |
| Time To Reduce *        | —          | —   | —          | —   |
| Minimum Gap             | —          | —   | —          | —   |
| Advance Walk            | 7          | —   | 7          | 7   |
| Non Lock Detector       | —          | X   | —          | X   |
| Vehicle Recall          | MIN RECALL | —   | MIN RECALL | —   |
| Dual Entry              | —          | X   | —          | X   |

| Microwave Detection              |          |         |          |         |
|----------------------------------|----------|---------|----------|---------|
|                                  | (2A)     |         | (6A)     |         |
| FUNCTION                         | Sensor 1 |         | Sensor 2 |         |
| Channel                          | 1        |         | 1        |         |
| Phase                            | 2        |         | 6        |         |
| Direction of Travel              | WB       |         | EB       |         |
| Type                             | Priority |         | Priority |         |
| Level                            | 2        | QUEUE   | 2        | QUEUE   |
| Detection Zone (ft)              | <750     | —       | <750     | —       |
| Range (ft)                       | 600–100  | 150–100 | 600–100  | 150–100 |
| Enable Speed                     | Y        | Y       | Y        | Y       |
| Speed Range (mph)                | 35–100   | 1–35    | 35–100   | 1–35    |
| Enable Estimated Time of Arrival | Y        | N       | Y        | N       |
| Estimated Time of Arrival (sec)  | 2.5–6.5  | —       | 2.5–6.5  | —       |

**Plans Prepared By:**

 **DRMP**

DRMP INC.  
8210 UNIVERSITY EXECUTIVE PARK DR.  
SUITE 220  
CHARLOTTE, NC 28262  
NC LICENSE NO. F-1524 (704) 549-4260

|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                          |                       |                        |                                                                                                   |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------|-----------------------|------------------------|---------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <p>Prepared for the Offices of:</p>  <p>750 N. Greenfield Pkwy, Garner, NC 27529</p>                | <p>NC 107 (E. Main Street)<br/>at<br/>SR 1354 (Cherry Street)/<br/>SR 1718 (E. Hall Heights)</p> <p>Division 14    Jackson County    Sylva</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PLAN DATE: August 2025</td> <td style="width: 50%;">REVIEWED BY: ZM Esposito</td> </tr> <tr> <td>PREPARED BY: DJ White</td> <td>REVIEWED BY: BN Groome</td> </tr> </table> | PLAN DATE: August 2025 | REVIEWED BY: ZM Esposito | PREPARED BY: DJ White | REVIEWED BY: BN Groome | <p>SEAL</p>  |  |  |  |  |  |
| PLAN DATE: August 2025                                                                                                                                                                   | REVIEWED BY: ZM Esposito                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                          |                       |                        |                                                                                                   |  |  |  |  |  |
| PREPARED BY: DJ White                                                                                                                                                                    | REVIEWED BY: BN Groome                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                          |                       |                        |                                                                                                   |  |  |  |  |  |
|  <p>SCALE</p>  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">REVISONS</td> <td style="width: 33%;">INIT.</td> <td style="width: 33%;">DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>                                                                                                                                 |                        | REVISONS                 | INIT.                 | DATE                   |                                                                                                   |  |  |  |  |  |
| REVISONS                                                                                                                                                                                 | INIT.                                                                                                                                                                                                                                                                                                                                                                                                                     | DATE                   |                          |                       |                        |                                                                                                   |  |  |  |  |  |
|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                          |                       |                        |                                                                                                   |  |  |  |  |  |
|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                          |                       |                        |                                                                                                   |  |  |  |  |  |
| <p>Signed by: <u>Brittany Groome</u></p> <p style="text-align: right;">8/26/2025</p> <p style="text-align: right;">DATE</p> <p>SIG. INVENTORY NO. 14-133313</p>                          |                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                          |                       |                        |                                                                                                   |  |  |  |  |  |