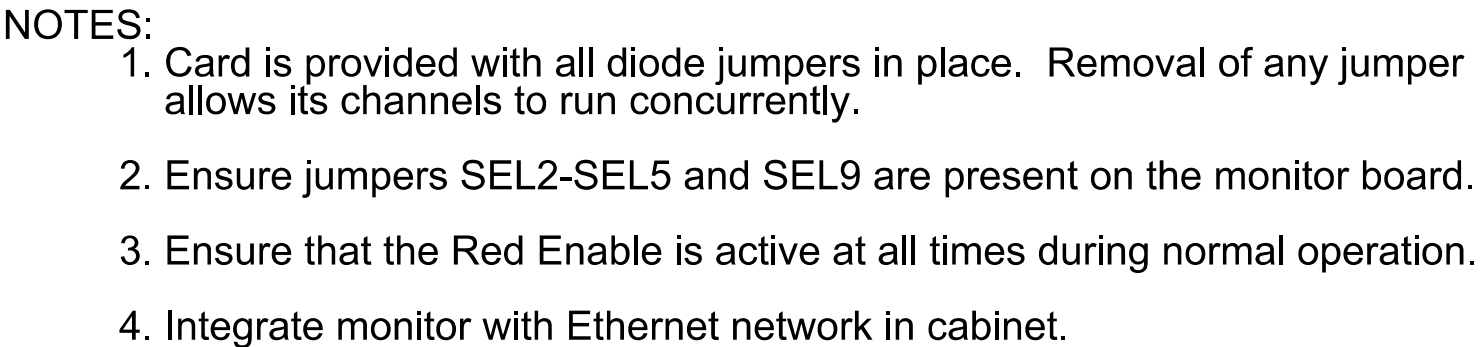


1. To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plans.
2. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
3. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

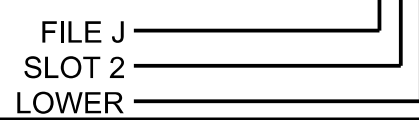
|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| Controller.....            | 2070LX                                                    |
| Cabinet.....               | 332 w/ Aux                                                |
| Software.....              | Q-Free MAXTIME                                            |
| Cabinet Mount.....         | Base                                                      |
| Output File Positions..... | 18 With Aux. Output File                                  |
| Load Switches Used.....    | S1,S2,S4,S5,S8,S9,S12,<br>AUX S1,AUX S2,AUX S4,<br>AUX S5 |
| Phases Used.....           | 1,2,3,3 PED,4,6,6 PED                                     |
| Overlap "1".....           | *                                                         |
| Overlap "2".....           | *                                                         |
| Overlap "3".....           | *                                                         |
| Overlap "4".....           | *                                                         |

\*See overlap programming detail on Sheet 2

| LOOP NO.         | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | INPUT POINT | DETECTOR NO. | CALL PHASE | DELAY TIME                                               | EXTEND TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN |
|------------------|---------------|-----------------|---------|-------------|--------------|------------|----------------------------------------------------------|-------------|--------|---------------|------|--------------------|
| 1C               | TB2-1,2       | I1U             | 56      | 18          | 1            | 1          | 15.0                                                     |             | X      |               | X    |                    |
|                  | -             | I1U             | 58      | -           | 29           | 6          |                                                          |             | X      |               | X    |                    |
| 1A               | TB2-5,6       | I2U             | 39      | 1           | 2            | 1          |                                                          |             | X      |               | X    |                    |
| 1B               | TB2-7,8       | I2L             | 43      | 5           | 3            | 1          |                                                          |             | X      |               | X    |                    |
| 2A               | TB2-9,10      | I3U             | 63      | 29          | 4            | 2          |                                                          |             | X      |               | X    |                    |
| 2B               | TB2-11,12     | I3L             | 76      | 42          | 5            | 2          |                                                          |             | X      |               | X    |                    |
| 2E               | TB4-1,2       | I4U             | 47      | 9           | 6            | 2          |                                                          |             | X      |               | X    |                    |
| 3A               | -             | -               | -       | *           | 34           | 3          | 3.0                                                      |             | X      |               | X    |                    |
| 4A               | TB4-9,10      | I6U             | 41      | 3           | 8            | 4          | 3.0                                                      |             | X      |               | X    |                    |
| 4B               | TB4-11,12     | I6L             | 45      | 7           | 9            | 4          | 15.0                                                     |             | X      |               | X    |                    |
| 4C               | TB6-1,2       | I7U             | 65      | 31          | 10           | 4          | 3.0                                                      |             | X      |               | X    |                    |
| 4D               | TB6-3,4       | I7L             | 78      | 44          | 11           | 4          |                                                          |             | X      |               | X    |                    |
| 1D               | TB6-5,6       | I8U             | 49      | 11          | 12           | 1          | 15.0                                                     |             | X      |               | X    |                    |
| 6A               | TB3-5,6       | J2U             | 40      | 2           | 16           | 6          |                                                          |             | X      |               | X    |                    |
| 6B               | TB3-7,8       | J2L             | 44      | 6           | 17           | 6          |                                                          |             | X      |               | X    |                    |
| 2C               | TB3-9,10      | J3U             | 64      | 30          | 18           | 2          |                                                          |             | X      |               | X    |                    |
| 2D               | TB3-11,12     | J3L             | 77      | 43          | 19           | 2          |                                                          |             | X      |               | X    |                    |
| PED PUSH BUTTONS |               |                 |         |             |              |            |                                                          |             |        |               |      |                    |
| P61,P62          | TB8-7,9       | I13U            | 68      | 34          | 6            | PED 6      | NOTE:<br>INSTALL DC ISOLATORS<br>IN INPUT FILTER SLOT U3 |             |        |               |      |                    |
| P31,P32          | TB8-8,9       | I13L            | 70      | 36          | 8            | PED 3      |                                                          |             |        |               |      |                    |

\*For Input Point numbers, see SDLC Non-Intrusive Detection Chart sheet 2.

INPUT FILE POSITION LEGEND: J2L



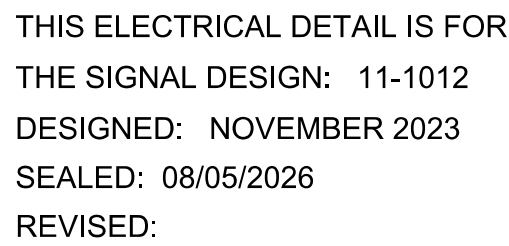
|                                                                                     |     |     |       |    |     |     |     |          |     |     |     |    |       |       |          |       |     |          |       |        |        |        |        |        |        |
|-------------------------------------------------------------------------------------|-----|-----|-------|----|-----|-----|-----|----------|-----|-----|-----|----|-------|-------|----------|-------|-----|----------|-------|--------|--------|--------|--------|--------|--------|
| LOAD SWITCH NO.                                                                     | S1  | S2  | S3    | S4 | S5  |     |     |          |     |     |     |    | S6    | S7    | S8       | S9    | S10 | S11      | S12   | AUX S1 | AUX S2 | AUX S3 | AUX S4 | AUX S5 | AUX S6 |
| CMU CHANNEL NO.                                                                     | 1   | 2   | 13    | 3  | 4   |     |     |          |     |     |     |    | 14    | 5     | 6        | 15    | 7   | 8        | 16    | 9      | 10     | 17     | 11     | 12     | 18     |
| PHASE                                                                               | 1   | 2   | 2 PED | 3  | 4   |     |     |          |     |     |     |    | 4 PED | 5     | 6        | 6 PED | 7   | 8        | 3 PED | OL1    | OL2    | SPARE  | OL3    | OL4    | SPARE  |
| SIGNAL HEAD NO.                                                                     | 13★ | 46  | 21,22 | NU | 31  | 32  | 25  | 41,43,44 | 42  | 45  | 46  | NU | NU    | 61,62 | P61, P62 | NU    | NU  | P31, P32 | 13★   | 11,12  | NU     | 23★    | 24,25  | NU     |        |
| RED                                                                                 | ★   |     | 128   |    | 116 | 116 |     |          | 101 | 101 | 101 |    |       | 134   |          |       |     |          |       |        |        |        | A101   |        |        |
| YELLOW                                                                              |     |     | 129   |    | 117 | 117 |     |          | 102 | 102 |     |    |       | 135   |          |       |     |          |       |        |        |        | A102   |        |        |
| GREEN                                                                               |     |     | 130   |    | 118 | 118 |     |          | 103 | 103 |     |    |       | 136   |          |       |     |          |       |        |        |        | A103   |        |        |
| RED ARROW                                                                           |     |     |       |    |     |     |     | 101      |     |     |     |    |       |       |          |       |     | A121     | A124  |        | A114   |        |        |        |        |
| YELLOW ARROW                                                                        |     | 126 |       |    |     |     | 102 | 102      | 102 |     |     |    |       |       |          |       |     | A122     | A125  |        | A115   |        |        |        |        |
| FLASHING YELLOW ARROW                                                               |     |     |       |    |     |     |     |          |     |     |     |    |       |       |          |       |     | A123     |       |        | A116   |        |        |        |        |
| GREEN ARROW                                                                         | 127 | 127 |       |    | 118 |     | 103 | 103      | 103 | 103 |     |    |       |       |          |       |     |          | A126  |        |        |        |        |        |        |
|  |     |     |       |    |     |     |     |          |     |     |     |    |       |       | 119      |       |     | 110      |       |        |        |        |        |        |        |
|  |     |     |       |    |     |     |     |          |     |     |     |    |       |       | 121      |       |     | 112      |       |        |        |        |        |        |        |

NU = Not Used

\*Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

(wire signal heads as shown)



Signal Upgrade  
Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

|                                                                                                                           |                                                                                                                                                                                                                                                                                           |                          |                           |                          |                           |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--|--|--|--|--|
| ELECTRICAL AND PROGRAMMING<br>DETAILS FOR:                                                                                | US 421 Bus-NC 18-268 (Second St)<br>at<br>US 421 Bus-NC 115 (Statesville Rd)<br>/"D" Street and SR 2333 (River Rd)<br>Division 11      Wilkes County      Wilkesboro                                                                                                                      |                          |                           |                          |                           |  |  |  |  |  |
| Prepared for the Offices of:<br><br> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PLAN DATE: November 2023</td> <td style="width: 50%;">REVIEWED BY: N.K. Vlanich</td> </tr> <tr> <td>PREPARED BY: E.E. Tiller</td> <td>REVIEWED BY: N.R. Simmons</td> </tr> </table>       | PLAN DATE: November 2023 | REVIEWED BY: N.K. Vlanich | PREPARED BY: E.E. Tiller | REVIEWED BY: N.R. Simmons |  |  |  |  |  |
| PLAN DATE: November 2023                                                                                                  | REVIEWED BY: N.K. Vlanich                                                                                                                                                                                                                                                                 |                          |                           |                          |                           |  |  |  |  |  |
| PREPARED BY: E.E. Tiller                                                                                                  | REVIEWED BY: N.R. Simmons                                                                                                                                                                                                                                                                 |                          |                           |                          |                           |  |  |  |  |  |
| 750 N. Greenfield Pkwy. Garner, NC 27529                                                                                  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">REVISIONS</td> <td style="width: 20%;">INT.</td> <td style="width: 40%;">DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> | REVISIONS                | INT.                      | DATE                     |                           |  |  |  |  |  |
| REVISIONS                                                                                                                 | INT.                                                                                                                                                                                                                                                                                      | DATE                     |                           |                          |                           |  |  |  |  |  |
|                                                                                                                           |                                                                                                                                                                                                                                                                                           |                          |                           |                          |                           |  |  |  |  |  |
|                                                                                                                           |                                                                                                                                                                                                                                                                                           |                          |                           |                          |                           |  |  |  |  |  |



DocuSigned by  
*Notasha R. Simmons*  
 FE048B0F3AD445A

8/5/2026  
 DATE  
 SIGNATURE  
 DATE  
 SIG. INVENTORY NO. 11-1012