

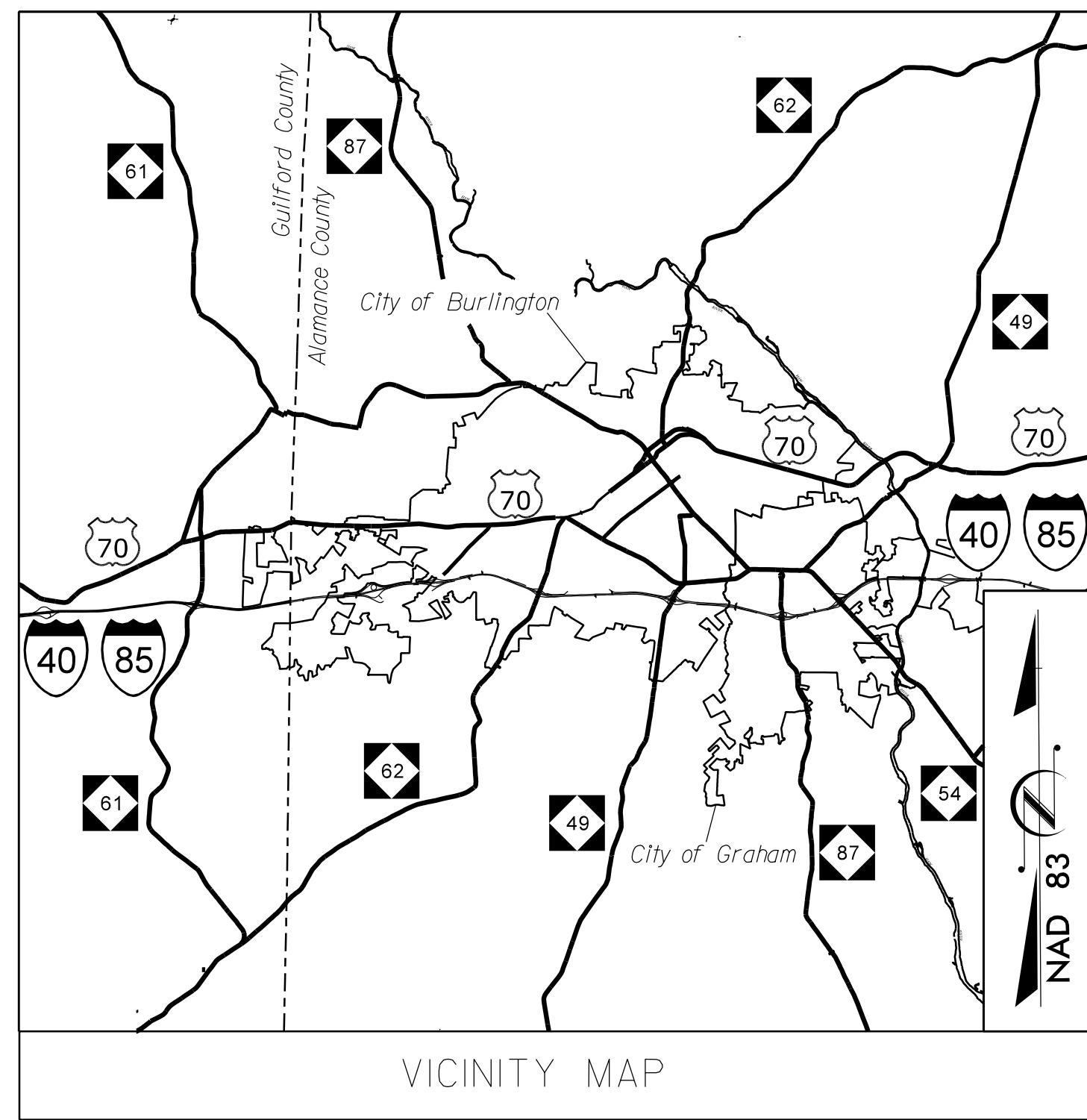
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**TIP PROJECT: U-6015**

**CONTRACT: C204111**



VICINITY MAP

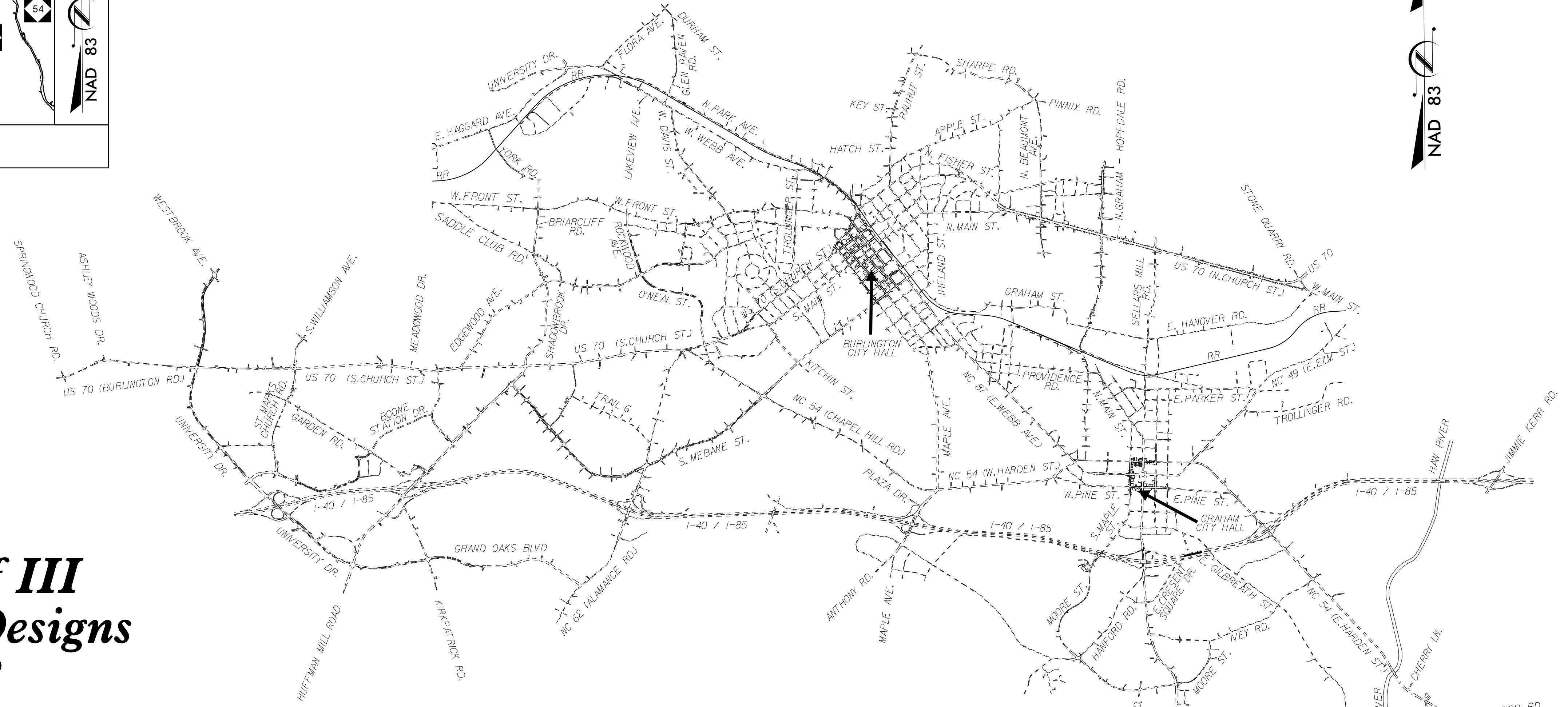
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED IMPROVEMENTS  
**CITIES OF BURLINGTON & GRAHAM**  
COMPUTERIZED TRAFFIC SIGNAL SYSTEM

REPLACEMENT OF EXISTING SIGNAL SYSTEM WITH A NEW COMPUTERIZED TRAFFIC SIGNAL SYSTEM.  
RELATED WORK INCLUDES:  
UPGRADING LOCAL INTERSECTION CONTROLLERS, CABINETS, AND SYSTEM DETECTORS WITH LIMITED SIGNAL WIRING AND SIGNAL HEAD UPGRADES WHEN NECESSARY; UPGRADE AND EXPANSION OF CCTV MONITORING NETWORK; INSTALLING CENTRAL EQUIPMENT AND CENTRAL SOFTWARE; AND INSTALLATION OF AN ETHERNET COMMUNICATIONS NETWORK COMPRISED OF FIBER-OPTIC CABLE AND WIRELESS TECHNOLOGY WITH ALL RELATED EQUIPMENT.

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | U-6015                      | Sig.-1.0    |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION |              |
| 47160.1.1       |                             | PE          |              |
| 47160.3.1       | STBG-0701 (036)             | CONST       |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |

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UNLESS ALL SIGNATURES COMPLETED**




**Volume III of III  
Traffic Signal Designs  
Part 1 of 2**

**JUNE 18, 2018**


2018 STANDARD SPECIFICATIONS  
**LETTING DATE: SEPTEMBER 18, 2018**  
**PROJECT LENGTH = 55 MILES**



750 Greenfield Parkway, Garner, NC 27529  
**NCDOT CONTACTS:**  
**TRANSPORTATION MOBILITY & SAFETY DIVISION**  
**INTELLIGENT TRANSPORTATION SYSTEMS SECTION**  
SHERRY YOW - METRO SYSTEMS PROJECT ENGINEER  
WILLIAM B. HAIRSTON, III - PROJECT DESIGN ENGINEER  
CYNTHIA MULDROW - DESIGN ENGINEER




1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
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MELISSA B. TOTH, PE - ATKINS PROJECT MANAGER  
PAMELA L. ALEXANDER, PE - ATKINS SENIOR PROJECT ENGINEER  
ANTHONY M. ENCARNACION, PE - ATKINS PROJECT ENGINEER

SEAL



DocuSigned by:  
*Melissa B. Toth* 6/18/2018  
SIGNATURE DATE

# INDEX OF SHEETS

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| ITS-2.00                 | INDEX OF SHEETS AND ROADWAY STANDARD DRAWINGS  |
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| ITS-5.00                 | CCTV CAMERA INSTALLATION, WOOD POLES   |
| ITS-5.01 THRU ITS-5.03   | CCTV CAMERA INSTALLATION, METAL POLES  |
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| ITS-5.08                 | FOUNDATION MODIFICATION DETAIL   |
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| SIG. 101.0 THRU SIG. 208.1 | TRAFFIC SIGNAL PLANS                 |

# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" CONTRACT SERVICES UNIT – N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE HEREBY CONSIDERED A PART OF THESE PLANS:

| STD. NO. | TITLE  |
|----------|--|
| 848.01   | CONCRETE SIDEWALK                                      |
| 1101.01  | WORK ZONE ADVANCE WARNING SIGNS                        |
| 1101.02  | TEMPORARY LANE CLOSURES                                |
| 1101.03  | TEMPORARY ROAD CLOSURES                                |
| 1101.04  | TEMPORARY SHOULDER CLOSURES                            |
| 1101.11  | TRAFFIC CONTROL DESIGN TABLES                          |
| 1110.02  | PORTABLE WORK ZONE SIGNS                               |
| 1115.01  | FLASHING ARROW BOARDS                                  |
| 1130.01  | DRUMS  |
| 1135.01  | CONES  |
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| 1165.01  | TRUCK MOUNTED ATTENUATOR                               |
| 1180.01  | SKINNY DRUMS   |
| 1205.01  | PAVEMENT MARKINGS – LINE TYPES AND OFFSETS             |
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| 1205.04  | PAVEMENT MARKINGS – INTERSECTIONS                      |
| 1205.05  | PAVEMENT MARKINGS – TURN LANES                         |
| 1205.07  | PAVEMENT MARKINGS – PEDESTRIAN CROSSWALKS              |
| 1205.08  | PAVEMENT MARKINGS – SYMBOLS AND WORD MESSAGES          |
| 1700.01  | ELECTRICAL SERVICE OPTIONS                             |
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| 1705.01  | SIGNAL HEADS – SIGNAL HEADS                            |
| 1705.02  | SIGNAL HEADS – MOUNTING                                |
| 1705.03  | SIGNAL HEADS – WIRE COLOR CONVENTIONS                  |
| 1705.04  | SIGNAL HEADS – PEDESTRIAN PUSHBUTTON PLACEMENT         |
| 1715.01  | UNDERGROUND CONDUIT – TRENCHING                        |
| 1716.01  | JUNCTION BOXES   |
| 1720.01  | WOOD POLES   |
| 1721.01  | GUY ASSEMBLIES   |
| 1725.01  | INDUCTIVE DETECTION LOOPS                              |
| 1730.01  | FIBER-OPTIC CABLE – SPARE CABLE STORAGE                |
| 1736.01  | SPREAD SPECTRUM RADIO                                  |
| 1743.01  | PEDESTALS – PEDESTRIAN PUSHBUTTON (TYPE I)             |
| 1743.04  | PEDESTALS – FOUNDATIONS                                |
| 1751.01  | CONTROLLERS AND CABINETS – CABINET COMPONENT LAYOUT    |
| 1751.02  | CONTROLLERS AND CABINETS – POWER, GROUND AND AUXILIARY |

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 \*\*\*SHEETING CONSTRUCTION TRANSPORTATION\*\*\*  
 ALEX3361 AT LUS340649

**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888 NCBES #F-0326

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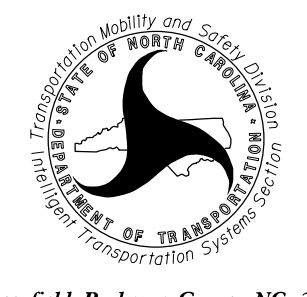
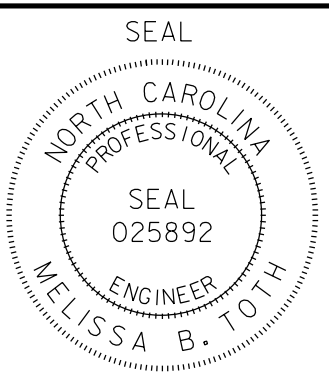
|   |   |   |   |
|---|---|---|---|
|  | Burlington-Graham Signal System<br>Index of Sheets and<br>Roadway Standard Drawings |   |  |
|   | Division 7 Alamance County<br>Burlington & Graham                                   |   |   |
| 750 Greenfield Parkway, Garner, NC 27529<br>SCALE<br>NTS                              | PLAN DATE: June 2018<br>PREPARED BY: JW/AH  | REVIEWED BY: HA Badgett<br>REVIEWED BY: BJ Slocum | DESIGNED BY: Melissa B. Toth<br>DATE: 7/11/2018<br>CADD Filename: Sig 1.01.dgn        |

Table with 4 columns: NCDOT SIGNAL INVENTORY NUMBER, INTERSECTION, SIGNAL SHEET NUMBER, CABLE ROUTING SHEET NUMBER. Contains 178 rows of signal system data.

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Professional seal for Melissa B. Toth, North Carolina Professional Engineer, License No. 025892. Includes project title 'Burlington-Graham Signal System Signal Plans Index Sheet' and revision table.

ATKINS logo and address: 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  |                   | Controller, Cabinet & Foundation Work |                  |          |                           |      |                         |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               |              |             |  |                       |    |    |  |  |
|------------------------------|-------------------|---|----------------------------|--|-------------------|---------------------------------------|------------------|----------|---------------------------|------|-------------------------|-----|------------------------|---------------------------|-------------------------|--|---|-------------------------|---|-------------------|----------------------------|---|---------------|--------------|-------------|--|-----------------------|----|----|--|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Routing Sheet Number                                    | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller |                                       | Type 170 Cabinet |          | No. of New Detector Cards | Base |                         |     | Install New Foundation |                           |                         |  |   | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |    |    |  |  |
|                              |                   |   |                            |  | New               | Existing                              | New              | Existing |                           | 332  | 332 with Auxiliary File | 336 | Adjacent to Existing   | In Same Place as Existing | Relocated to (quadrant) | Comment  |   |                         |   |                   |                            |   |               |              |             |  |                       |    |    |  |  |
| 1                            | 07-0001           | NC 87-100 (W. Webb Avenue) at SR 1352 (W. Davis Street)       | 6.133                      | 3.0  |                   | 1                                     |                  | 1        |                           | 2    |                         |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               | 1            | 25          |  |                       |    |    |  |  |
| 2                            | 07-0003           | SR 1323 (W. Front Street) at W. Davis Street                  | 6.138                      | 4.0  |                   | 1                                     |                  | 1        |                           | 4    |                         |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               |              | 1           | 20                                     |                       |    |    |  |  |
| 3                            | 07-0005           | NC 87-100 (W. Webb Avenue) at Trollinger Street               | 6.142                      | 5.0  |                   | 1                                     |                  | 1        |                           | 2    |                         |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               |              | 1           | 19                                     |                       |    |    |  |  |
| 4                            | 07-0006           | SR 1323 (W. Front Street) at Trollinger Street                | 6.140                      | 6.0  | Y                 | 1                                     |                  | 1        |                           | 4    | 1                       |     | 1                      |                           |                         | along sidewalk, 5' south along Trollinger  | 1 |                         |   |                   |                            |   |               | 180          | 1           | 22                                     |                       |    |    |  |  |
| 5                            | 07-0007           | US 70-NC 62 (S. Church Street) at Glenwood Avenue             | 6.022                      | 7.0  |                   | 1                                     |                  | 1        |                           | 5    |                         |     |                        |                           |                         | Not much room between road and sidewalk; 6 unshielded lead-ins   |   |                         |   |                   |                            |   |               |              | 1           | 19                                     |                       |    |    |  |  |
| 6                            | 07-0008           | NC 54 (Chapel Hill Road) at Tucker Street                     | 6.092                      | 8.0  |                   | 1                                     |                  | 1        |                           | 6    |                         |     |                        |                           |                         | 1 Joint Use CCTV/Signal Metal Strain Pole with Foundation  |   |                         |   |                   |                            |   |               | 180          |             | 1                                      | 26                    |    |    |  |  |
| 7                            | 07-0009           | NC 54 (Chapel Hill Road) at SR 1363 (S. Mebane Street)        | 6.081                      | 9.0  |                   | 1                                     |                  | 1        |                           | 10   | 1                       |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               | 0            | 1           |  |                       |    |    |  |  |
| 8                            | 07-0011           | US 70-NC 62 (S. Church Street) at W. Fifth Street             | 6.024                      | 10.0   |                   | 1                                     |                  | 1        |                           | 1    | 1                       |     |                        | 1                         |                         |  |   |                         |   |                   | 1                          | 0   | 1             |              |             |  |                       | 20 |    |  |  |
| 9                            | 07-0012           | NC 87 (E. Webb Avenue) at Williamson Street                   | 6.124                      | 11.0   |                   | 1                                     |                  | 1        |                           | 3    |                         |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               |              | 0           |  | 1                     | 22 |    |  |  |
| 10                           | 07-0013           | NC 87-100 (E. Webb Avenue) at Flanner Street                  | 6.121                      | 12.0   |                   | 1                                     |                  | 1        |                           | 4    |                         |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               |              | 270         |  | 1                     | 22 |    |  |  |
| 11                           | 07-0014           | NC 87-100 (E. Webb Avenue) at Everett Street                  | 6.121                      | 13.0   |                   | 1                                     |                  | 1        |                           | 1    |                         |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               |              | 270         |  | 1                     | 25 | 18 |  |  |
| 12                           | 07-0015           | NC 100 (Maple Avenue) at NC 100 (S. Anthony Street)           | 6.129                      | 14.0   |                   | 1                                     |                  | 1        |                           | 5    | 1                       |     | 1                      |                           |                         | 5' behind pole in between downguys   | 1 |                         |   |                   |                            |   |               | 45           | 1           |  |                       | 21 |    |  |  |
| 13                           | 07-0016           | NC 87-100 (E. Webb Avenue) at NC 100 (Anthony Street)         | 6.122                      | 15.0   |                   | 1                                     |                  | 1        |                           | 2    | 1                       |     | 1                      |                           |                         | 15' north along Anthony St   |   |                         | 1                                       |                   |                            |   |               | 180          | 1           |  |                       | 23 |    |  |  |
| 14                           | 07-0017           | NC 87 (E. Webb Avenue) at Whitsett Street/Sidney Avenue       | 6.123                      | 16.0   |                   | 1                                     |                  | 1        |                           | 2    | 1                       |     |                        |                           | 1 SW                    | South of pole in southwest corner of Webb Ave at Whitsett St   | 2 |                         | 1                                       |                   |                            |   | 145           | 1            |             |  |                       |    | 2  |  |  |
| 15                           | 07-0018           | US 70-NC 62 (S. Church Street) at W. Front Street             | 6.127                      | 17.0   |                   | 1                                     |                  | 1        |                           | 0    |                         |     | 1                      |                           |                         |  |   |                         |   |                   |                            |   |               |              | 1           |  |                       |    |    |  |  |
| 16                           | 07-0020           | NC 62 (Rauhut Street) at SR 1700 (Apple Street)               | 6.157                      | 18.0   |                   | 1                                     |                  | 1        |                           | 4    |                         |     |                        |                           |                         |  |   | Ex                      |   |                   |                            |   |               |              | 0           |  |                       | 1  | 19 |  |  |
| 17                           | 07-0021           | US 70-NC 62 (N. Church Street) at NC 62 (W. Holt Street)      | 6.028                      | 19.0   |                   | 1                                     |                  | 1        |                           | 0    | 1                       |     | 1                      |                           |                         | 50' north along Holt Street at next pole   | 1 |                         |   |                   |                            |   |               | 45           | 1           |  |                       | 23 |    |  |  |
| 18                           | 07-0022           | NC 87-100 (E. Webb Avenue) at Gilmer Street                   | 6.120                      | 20.0   | Y                 | 1                                     |                  | 1        |                           | 1    | 1                       |     |                        |                           |                         | RR Preempt. New foundation behind sidewalk near existing pole mounted cabinet, replace disconnect wires and conduit from meter | 1 |                         |   |                   |                            |   |               | 0            | 1           |  |                       | 22 |    |  |  |
| 19                           | 07-0023           | NC 87-100 (E. Webb Avenue) at Broad Street                    | 6.120                      | 21.0   |                   | 1                                     |                  | 1        |                           | 2    |                         |     |                        |                           |                         | Existing lead-in not shielded  |   |                         |   |                   |                            |   |               |              | 0           |  |                       | 1  | 24 |  |  |
| 20                           | 07-0027           | US 70-NC 62 (S. Church Street) at NC 87-100 (W. Webb Avenue)  | 6.127                      | 22.0   |                   | 1                                     |                  | 1        |                           | 0    | 1                       |     |                        |                           |                         | Single Ring - Re-cable for dual ring. Ground rod in cabinet. Keep some 8" lenses (reds are 12") - mast arms.                   |   |                         |   |                   |                            |   |               |              |             |  | *                     |    |    |  |  |
| 21                           | 07-0028           | US 70-NC 62 (S. Church Street) at W. Davis Street             | 6.127                      | 23.0   | Y                 | 1                                     |                  | 1        |                           | 0    |                         |     | 1                      |                           |                         | Existing foundation is tiny  |   |                         |   |                   |                            |   |               |              |             | 1                                      |                       |    |    |  |  |
| 22                           | 07-0029           | US 70-NC 62 (S. Church Street) at Morehead Street             | 6.024                      | 24.0   |                   | 1                                     |                  | 1        |                           | 0    |                         |     | 1                      |                           |                         | Needs larger foundation but very limited space, front door opens onto sidewalk. Re-cable for dual ring                         |   |                         |   |                   |                            |   |               |              | 0           | *                                      |                       |    |    |  |  |
| 23                           | 07-0030           | US 70-NC 62 (S. Church Street) at Maple Avenue                | 6.024                      | 25.0   |                   | 1                                     |                  | 1        |                           | 0    |                         |     | 1                      |                           |                         |  |   |                         |   |                   |                            |   |               |              |             | 1                                      |                       |    |    |  |  |
| 24                           | 07-0032           | US 70 (N. Church Street) at SR 1716 (S. Graham-Hopedale Road) | 6.038                      | 26.0   |                   | 1                                     |                  | 1        |                           | 15   | 1                       |     |                        |                           |                         |  |   |                         |   |                   |                            |   |               |              | 0           | *                                      |                       |    |    |  |  |

\*Reuse Existing

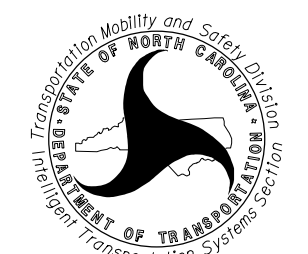
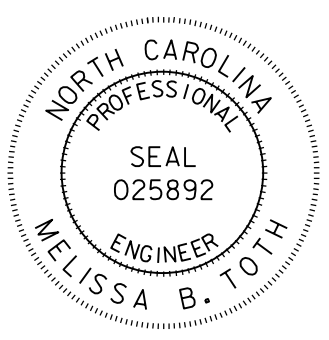
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- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact **Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation** for an effects determination before proceeding.

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(919) 876-6888 NCBES #F-0326

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|   |   |   |   |
|---|---|---|---|
|  | <b>Burlington-Graham Signal System</b><br>Summary of Work by<br>Intersection (Sheet 1 of 3) |   |  |
|   | Division 7 Alamance County<br>PLAN DATE: May 2018<br>PREPARED BY: PL Alexander              | Burlington & Graham<br>REVIEWED BY: MB Toth<br>REVIEWED BY: |   |
| REVISIONS   |   | INIT. DATE  | Designated by:<br>Melissa B. Toth<br>DATE: 6/26/2018<br>CADD File name: Sig 2.00.dgn  |

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  | Conduit and Riser Work                   |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  | Power Service                              |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
|------------------------------|-------------------|---|----------------------------|--|--|--|---|---|----------------------------------|--|-----------------------------|---|---|----------------------------------|---|---|------------------------------------|---|---|--|--|---|---|---|---|--|--|--|--|--------------------------------|--|--|---|---|---|---|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number                                     | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | Drill / Core Drill for 2" for FO or CAT6 | Intercept and use 2" Spare for Signal Cable or Lead-in | Reuse Ex. 1" (pole) or 2" (base) HST Dedicated Riser for Comm (Heat Shrink Kit) | Reuse Ex. 2" (or 3") Dedicated Conduit Entrance for UG Comm | Use 2" Spare Conduit for UG Comm | Use 2" Spare Riser for Comm (Heat Shrink Tubing Kit) | New 2" Riser (HST) for Comm | New 1-1/4" Riser (HST) for Comm to pole mtd cabinet | New 1" Short Riser for Sig-Replace short riser to cabinet | New UG Conduit for Comm Entrance | New Cabinet Entrance in New Foundation for Comm | New 1/2" Risers (WH) for Sig- Pedestrian Push Buttons | New 1" Risers (WH) for CCTV - CAT6 | New 1" Risers (WH) for Sig- New Electrical Service Location | New 2" Risers (WH) for Sig- New Foundation Location | New 2" Risers (WH) for System Detector | New 2" Risers (WH) for New Detection Loops | New 2" Risers (WH) for Sig (replace existing) | New UG conduit to new foundation location for Sig | New 2" short Risers for Sig (from terminal splice box or from UG) | Modify Existing Power Service - Install New Service Wires in Existing Conduit | Modify Existing Power Service - Install New Service Wires in New Conduit | Install Service Disconnect by Signal Cabinet | Install 50 Amp Breaker for Signal (Replace Existing) | Install 5/8" x 10' Grounding Electrode | Install New Electrical Service |  |  |   |   |   |   |
| 1                            | 07-0001           | NC 87-100 (W. Webb Avenue) at SR 1352 (W. Davis Street)       | 6.133                      | 3.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
| 2                            | 07-0003           | SR 1323 (W. Front Street) at W. Davis Street                  | 6.138                      | 4.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  | 1 |   |   |   |
| 3                            | 07-0005           | NC 87-100 (W. Webb Avenue) at Trollinger Street               | 6.142                      | 5.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
| 4                            | 07-0006           | SR 1323 (W. Front Street) at Trollinger Street                | 6.140                      | 6.0  | Y  |  |   |   |                                  | 1  |                             |   |   |                                  | 1   |   |                                    |   |   |  |  |   |   | 2   |   |  | 1  |  |  |                                |  |  |   |   |   |   |
| 5                            | 07-0007           | US 70-NC 62 (S. Church Street) at Glenwood Avenue             | 6.022                      | 7.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  | 1 |   |   |   |
| 6                            | 07-0008           | NC 54 (Chapel Hill Road) at Tucker Street                     | 6.092                      | 8.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  | 1  |   |   |   |   |  |  |  |  |                                |  |  | 1 |   |   |   |
| 7                            | 07-0009           | NC 54 (Chapel Hill Road) at SR 1363 (S. Mebane Street)        | 6.081                      | 9.0  |  |  | 1   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  | 1 |   |   |   |
| 8                            | 07-0011           | US 70-NC 62 (S. Church Street) at W. Fifth Street             | 6.024                      | 10.0   |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   | 1 |   |   |
| 9                            | 07-0012           | NC 87 (E. Webb Avenue) at Williamson Street                   | 6.124                      | 11.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   | 1 |   |   |
| 10                           | 07-0013           | NC 87-100 (E. Webb Avenue) at Flanner Street                  | 6.121                      | 12.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   | 2                                      |  |   |   |   |   |  |  |  |  |                                |  |  |   | 1 |   |   |
| 11                           | 07-0014           | NC 87-100 (E. Webb Avenue) at Everette Street                 | 6.121                      | 13.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
| 12                           | 07-0015           | NC 100 (Maple Avenue) at NC 100 (S. Anthony Street)           | 6.129                      | 14.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    | 1   |   |  |  |   |   | 1   |   |  | 1  |  |  |                                |  |  |   |   |   |   |
| 13                           | 07-0016           | NC 87-100 (E. Webb Avenue) at NC 100 (Anthony Street)         | 6.122                      | 15.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    | 2   |   |  |  |   | 1   |   | 2   |  | 1  |  |  |                                |  |  |   |   |   |   |
| 14                           | 07-0017           | NC 87 (E. Webb Avenue) at Whitsett Street/Sidney Avenue       | 6.123                      | 16.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  | 1   |   |                                    | 3   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   | 3 | 1 |   |
| 15                           | 07-0018           | US 70-NC 62 (S. Church Street) at W. Front Street             | 6.127                      | 17.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
| 16                           | 07-0020           | NC 62 (Rauhut Street) at SR 1700 (Apple Street)               | 6.157                      | 18.0   |  |  | 1   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
| 17                           | 07-0021           | US 70-NC 62 (N. Church Street) at NC 62 (W. Holt Street)      | 6.028                      | 19.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  |   | 4   | 1                                  | 2   |   |  |  |   |   | 1   |   |  |  |  |  |                                |  |  |   | 3 | 1 |   |
| 18                           | 07-0022           | NC 87-100 (E. Webb Avenue) at Gilmer Street                   | 6.120                      | 20.0   | Y  |  |   |   |                                  | 1  |                             |   |   |                                  | 1   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
| 19                           | 07-0023           | NC 87-100 (E. Webb Avenue) at Broad Street                    | 6.120                      | 21.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   | 1 |   |
| 20                           | 07-0027           | US 70-NC 62 (S. Church Street) at NC 87-100 (W. Webb Avenue)  | 6.127                      | 22.0   |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   | 3 |   |
| 21                           | 07-0028           | US 70-NC 62 (S. Church Street) at W. Davis Street             | 6.127                      | 23.0   | Y  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |
| 22                           | 07-0029           | US 70-NC 62 (S. Church Street) at Morehead Street             | 6.024                      | 24.0   |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |  |  |   |   | 1 | 3 |
| 23                           | 07-0030           | US 70-NC 62 (S. Church Street) at Maple Avenue                | 6.024                      | 25.0   |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   | 3 |
| 24                           | 07-0032           | US 70 (N. Church Street) at SR 1716 (S. Graham-Hopedale Road) | 6.038                      | 26.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |  |   |   |   |   |

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- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact [Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation](#) for an effects determination before proceeding.

1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBES #F-0326

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**Burlington-Graham Signal System  
Summary of Work by  
Intersection (Sheet 2 of 3)**

Division 7 Alamance County Burlington & Graham

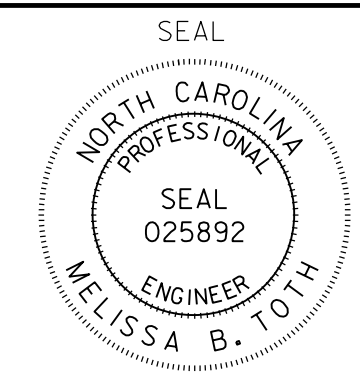
PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |

SCALE: **NTS**

Designed by: Melissa B. Toth 6/26/2018  
DATE  
CADD Filename: Sig 2.01.dgn



# SUMMARY OF WORK BY INTERSECTION


| Reference Information |                              |   |                           |                            | Signal Items   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
|-----------------------|------------------------------|---|---------------------------|----------------------------|--|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|-----------------------|-----------------------------|--------------|-----------------------------------|---------|------------|----------------|-----------------|---|---|--|--|--|
|                       | NCDOT / City Signal Inv. No. | Intersection Name   | Cable Layout Sheet Number | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1, 2") | Underground Conduit (2, 2") | Directional Drill | Inductive Loop Sawcut | Loop Lead-in Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Sidewalk Guy Assembly | Type I Post with Foundation | Junction Box | Remove existing pedestrian signal | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24", 120 MILS | Thermoplastic Pavement Marking Lines (8", 120 MILS) | Thermoplastic White yield lines, 90 MILS |  |  |
| 1                     | 07-0001                      | NC 87-100 (W. Webb Avenue) at SR 1352 (W. Davis Street)       | 6.133                     | 3.0                        |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 2                     | 07-0003                      | SR 1323 (W. Front Street) at W. Davis Street                  | 6.138                     | 4.0                        |  | 8  |                               |                               |                               | 410          | 6                      | 60                     |                             |                             |                   |                       | 890                |      |           |                   | 6                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 3                     | 07-0005                      | NC 87-100 (W. Webb Avenue) at Trollinger Street               | 6.142                     | 5.0                        |  |  |                               |                               |                               |              |                        |                        |                             |                             | 40                | 120                   |                    |      |           |                   |                            |                       | 1                           | 2            |                                   |         |            |                |                 |   |   |  |  |  |
| 4                     | 07-0006                      | SR 1323 (W. Front Street) at Trollinger Street                | 6.140                     | 6.0                        | Y  |  |                               |                               |                               | 100          |                        |                        |                             | 10                          |                   |                       | 110                |      |           |                   | 1                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 5                     | 07-0007                      | US 70-NC 62 (S. Church Street) at Glenwood Avenue             | 6.022                     | 7.0                        |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       | 1330               |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 6                     | 07-0008                      | NC 54 (Chapel Hill Road) at Tucker Street                     | 6.092                     | 8.0                        |  | 3  |                               | 2                             |                               | 350          |                        | 180                    | 700                         |                             |                   | 150                   | 1380               | 1    |           | 1                 |                            |                       |                             | 3            |                                   |         |            |                |                 |   |   | 20                                       |  |  |
| 7                     | 07-0009                      | NC 54 (Chapel Hill Road) at SR 1363 (S. Mebane Street)        | 6.081                     | 9.0                        |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 8                     | 07-0011                      | US 70-NC 62 (S. Church Street) at W. Fifth Street             | 6.024                     | 10.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 9                     | 07-0012                      | NC 87 (E. Webb Avenue) at Williamson Street                   | 6.124                     | 11.0                       |  |  |                               |                               |                               | 20           |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          | 1                     |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 10                    | 07-0013                      | NC 87-100 (E. Webb Avenue) at Flanner Street                  | 6.121                     | 12.0                       |  |  |                               |                               |                               |              |                        | 200                    |                             |                             |                   | 170                   | 1210               |      |           |                   | 1                          | 2                     |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 11                    | 07-0014                      | NC 87-100 (E. Webb Avenue) at Everett Street                  | 6.121                     | 13.0                       |  | 2  |                               |                               |                               | 380          |                        | 80                     |                             |                             |                   |                       |                    |      |           |                   | 2                          | 2                     |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 12                    | 07-0015                      | NC 100 (Maple Avenue) at NC 100 (S. Anthony Street)           | 6.129                     | 14.0                       |  |  |                               |                               |                               | 330          | 2                      |                        |                             | 5                           | 130               | 90                    | 1560               | 1    | 1         |                   | 3                          |                       |                             | 1            |                                   |         |            |                |                 |   |   |  |  |  |
| 13                    | 07-0016                      | NC 87-100 (E. Webb Avenue) at NC 100 (Anthony Street)         | 6.122                     | 15.0                       |  | 2  |                               |                               |                               | 820          |                        |                        |                             | 10                          |                   |                       | 1110               |      |           |                   | 1                          | 1                     |                             |              |                                   |         |            | 30             | 12              | 12  | 170   |  |  |  |
| 14                    | 07-0017                      | NC 87 (E. Webb Avenue) at Whitsett Street/Sidney Avenue       | 6.123                     | 16.0                       |  | 13                                       |                               |                               |                               | 1520         |                        | 890                    |                             |                             |                   |                       | 630                |      | 1         |                   | 2                          | 1                     |                             |              | 4                                 |         |            |                |                 |   |   |  |  |  |
| 15                    | 07-0018                      | US 70-NC 62 (S. Church Street) at W. Front Street             | 6.127                     | 17.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 16                    | 07-0020                      | NC 62 (Rauhut Street) at SR 1700 (Apple Street)               | 6.157                     | 18.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 17                    | 07-0021                      | US 70-NC 62 (N. Church Street) at NC 62 (W. Holt Street)      | 6.028                     | 19.0                       |  | 1  |                               |                               |                               | 440          | 1                      |                        |                             | 5                           |                   |                       |                    |      |           |                   | 2                          | 3                     |                             |              |                                   |         |            | 60             | 12              | 12  |   |  |  |  |
| 18                    | 07-0022                      | NC 87-100 (E. Webb Avenue) at Gilmer Street                   | 6.120                     | 20.0                       | Y  |  |                               |                               |                               | 500          |                        |                        |                             | 20                          |                   |                       | 50                 |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 19                    | 07-0023                      | NC 87-100 (E. Webb Avenue) at Broad Street                    | 6.120                     | 21.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       | 390                |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 20                    | 07-0027                      | US 70-NC 62 (S. Church Street) at NC 87-100 (W. Webb Avenue)  | 6.127                     | 22.0                       |  |  |                               |                               |                               | 550          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 21                    | 07-0028                      | US 70-NC 62 (S. Church Street) at W. Davis Street             | 6.127                     | 23.0                       | Y  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 22                    | 07-0029                      | US 70-NC 62 (S. Church Street) at Morehead Street             | 6.024                     | 24.0                       |  |  |                               |                               |                               | 610          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 23                    | 07-0030                      | US 70-NC 62 (S. Church Street) at Maple Avenue                | 6.024                     | 25.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |  |
| 24                    | 07-0032                      | US 70 (N. Church Street) at SR 1716 (S. Graham-Hopedale Road) | 6.038                     | 26.0                       |  |  |                               |                               |                               |              |                        |                        |                             | 120                         |                   | 220                   | 1350               |      |           |                   |                            |                       |                             | 2            |                                   |         |            |                |                 |   |   |  |  |  |

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- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

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1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBES #F-0326

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**Burlington-Graham Signal System  
Summary of Work by  
Intersection (Sheet 3 of 3)**

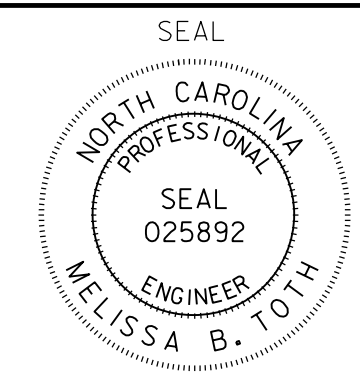
Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

SCALE: NTS

REVISIONS: \_\_\_\_\_ INIT. DATE



6/26/2018  
DATE

CADD Filename: Sig 2.02.dgn

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  |                   | Controller, Cabinet & Foundation Work |                  |          |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               |              |             |  |                       |  |  |  |
|------------------------------|-------------------|---|----------------------------|--|-------------------|---------------------------------------|------------------|----------|---------------------------|------|-------------------------|-----|------------------------|---------------------------|-------------------------|--|-------------------------|---|-------------------|----------------------------|---|---------------|--------------|-------------|--|-----------------------|--|--|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Routing Sheet Number  | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller |                                       | Type 170 Cabinet |          | No. of New Detector Cards | Base |                         |     | Install New Foundation |                           |                         |  | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |  |  |  |
|                              |                   |   |                            |  | New               | Existing                              | New              | Existing |                           | 332  | 332 with Auxiliary File | 336 | Adjacent to Existing   | In Same Place as Existing | Relocated to (quadrant) | Comment  |                         |   |                   |                            |   |               |              |             |  |                       |  |  |  |
|                              |                   |   |                            |  |                   |                                       |                  |          |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               |              |             |  |                       |  |  |  |
| 25                           | 07-0033           | US 70 (N. Church Street) at Cobb Avenue   | 6.037                      | 27.0   |                   | 1                                     | 1                | 6        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               |              |             |  |                       |  |  |  |
| 26                           | 07-0034           | US 70-NC 62 (N. Church Street) at W. Trade Street   | 6.028                      | 28.0   |                   | 1                                     | 1                | 0        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 25          |  |                       |  |  |  |
| 27                           | 07-0035           | US 70-NC 62 (S. Church Street) at NC 62 (Alamance Road)                                   | 6.019                      | 29.0   |                   | 1                                     | 1                | 7        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   | *             |              |             |  |                       |  |  |  |
| 28                           | 07-0036           | US 70 (N. Church Street) at Beaumont Avenue   | 6.036                      | 30.0   |                   | 1                                     | 1                | 6        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   | *             |              |             |  |                       |  |  |  |
| 29                           | 07-0037           | SR 1716 (N. Graham-Hopedale Road) at Vaughn Road  | 6.189                      | 31.0   |                   | 1                                     | 1                | 5        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |
| 30                           | 07-0040           | US 70 (N. Church Street) at SR 1719 (Sellars Mill Road)                                   | 6.039                      | 32.0   |                   | 1                                     | 1                | 11       | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |
| 31                           | 07-0041           | US 70-NC 62 (S. Church Street) at Tarleton Avenue   | 6.020                      | 33.0   |                   | 1                                     | 1                | 5        | 1                         |      |                         |     |                        | 1                         | NW                      | from pole mounted in SE quad, existing terminal splice box=rewire intersection<br>Small added pad in front and back, remove these and add to front and back ex fnd |                         |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |
| 32                           | 07-0042           | US 70-NC 62 (S. Church Street) at SR 1445/SR 1452 (O'Neal Street)                         | 6.019                      | 34.0   |                   | 1                                     | 1                | 9        | 1                         |      |                         |     |                        |                           |                         |  | 1                       |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |
| 33                           | 07-0043           | NC 49-100 (Maple Avenue) at NC 49-54 (Harden Street)/NC 54 (Chapel Hill Road)             | 6.096                      | 35.0   |                   | 1                                     | 1                | 12       | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |
| 34                           | 07-0046           | US 70-NC 62 (S. Church Street) at Ruffin Street   | 6.028                      | 36.0   |                   | 1                                     | 1                | 0        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 23          |  |                       |  |  |  |
| 35                           | 07-0047           | SR 1154 (Tucker Street) at E. Davis Street  | 6.121                      | 37.0   |                   | 1                                     | 1                | 4        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 23          |  |                       |  |  |  |
| 36                           | 07-0048           | Maple Avenue at SR 1154 (Tucker Street)   | 6.128                      | 38.0   |                   | 1                                     | 1                | 5        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 15          |  |                       |  |  |  |
| 37                           | 07-0049           | E. Morehead Street at SR 1154 (Tucker Street)   | 6.128                      | 39.0   |                   | 1                                     | 1                | 4        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 22          |  |                       |  |  |  |
| 38                           | 07-0058           | SR 1716 (Providence Road) at SR 1716 (Washington Street)                                  | 6.184                      | 40.0   | Y                 | 1                                     | 1                | 0        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 34          |  |                       |  |  |  |
| 39                           | 07-0059           | SR 1716 (N. Main Street) at SR 2396 (W. Parker Street)                                    | 6.183                      | 41.0   |                   | 1                                     | 1                | 2        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 20          |  |                       |  |  |  |
| 40                           | 07-0060           | SR 1716 (N. Main Street) at N. Maple Street/Guthrie Street                                | 6.182                      | 42.0   |                   | 1                                     | 1                | 2        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 24          |  |                       |  |  |  |
| 41                           | 07-0062           | NC 49-54 (E. Harden Street) at N. Marshall Street   | 6.102                      | 43.0   | Y                 | 1                                     | 1                | 4        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 24          |  |                       |  |  |  |
| 42                           | 07-0063           | NC 49 (E. Elm Street) at NC 54 (E. Harden Street)   | 6.103                      | 44.0   | Y                 | 1                                     | 1                | 7        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |
| 43                           | 07-0064           | NC 87/SR 1716 (Main Street) at NC 49-54-87 (W. Harden Street)                             | 6.102                      | 45.0   | Y                 | 1                                     | 1                | 4        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   | *             |              |             |  |                       |  |  |  |
| 44                           | 07-0065           | NC 49-54-87 (W. Harden Street) at SR 2424 (N. Maple Street)                               | 6.101                      | 46.0   | Y                 | 1                                     | 1                | 0        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 24          |  |                       |  |  |  |
| 45                           | 07-0066           | NC 87 (W. Elm Street) at Albany Street/Oakley Street                                      | 6.126                      | 47.0   |                   | 1                                     | 1                | 3        |                           |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            | 24          |  |                       |  |  |  |
| 46                           | 07-0067           | NC 49-54-87 (W. Harden Street) at NC 87 (W. Elm Street)                                   | 6.100                      | 48.0   |                   | 1                                     | 1                | 7        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |
| 47                           | 07-0068           | NC 87 (S. Main Street) at Pine Street   | 6.178                      | 49.0   | Y                 | 1                                     | 1                | 6        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   | *             |              |             |  |                       |  |  |  |
| 48                           | 07-0106           | NC 87-100 (W. Webb Avenue/University Drive) at NC 87 (Ossipee Road)/SR 1353 (E. Haggard A | 6.130                      | 50.0   |                   | 1                                     | 1                | 7        | 1                         |      |                         |     |                        |                           |                         |  |                         |   |                   |                            |   |               | 1            |             |  |                       |  |  |  |

\*Reuse Existing

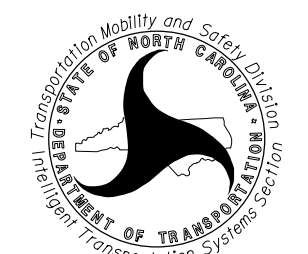
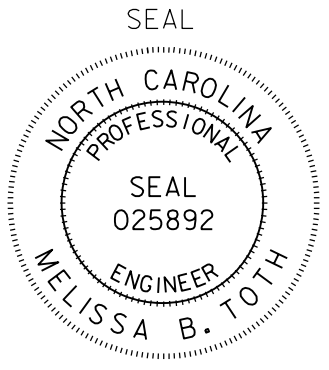
25 JUN 2018 17:20 \*\*\*S:\CH\ins.com\Projects\BURL\A\Transportation\Traffic\Cur\100056469 U-6015 B-G Sig. Sys\Task 05\_11\_Signal\Vol 111 Front Sheets\Sig 2.03.dgn ALEX3361 AT LUS340649

- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.

**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBES #F-0326

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| <br>Prepared for the Offices of:<br>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION<br>750 Greenfield Parkway, Garner, NC 27529 | Burlington-Graham Signal System<br>Summary of Work by<br>Intersection (Sheet 1 of 3) |   |  |
|  | Division 7 Alamance County<br>PLAN DATE: May 2018<br>PREPARED BY: PL Alexander       | Burlington & Graham<br>REVIEWED BY: MB Toth<br>REVIEWED BY: |   |
| SCALE<br><b>NTS</b>  | REVISIONS<br>INIT. DATE  | DATE<br>6/26/2018   | CADD Filename: Sig 2.03.dgn   |



# SUMMARY OF WORK BY INTERSECTION


| Reference Information        |                   |   |                            |  | Conduit and Riser Work                   |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    | Power Service                                      |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
|------------------------------|-------------------|---|----------------------------|--|--|--|---|---|----------------------------------|--|-----------------------------|---|---|----------------------------------|---|---|------------------------------------|--|---|---|--|--|---|---|---|---|--|--|--|--|--------------------------------|--|---|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | Drill / Core Drill for 2" for FO or CAT6 | Intercept and use 2" Spare for Signal Cable or Lead-in | Reuse Ex. 1" (pole) or 2" (base) HST Dedicated Riser for Comm (Heat Shrink Kit) | Reuse Ex. 2" (or 3") Dedicated Conduit Entrance for UG Comm | Use 2" Spare Conduit for UG Comm | Use 2" Spare Riser for Comm (Heat Shrink Tubing Kit) | New 2" Riser (HST) for Comm | New 1-1/4" Riser (HST) for Comm to pole mtd cabinet | New 1" Short Riser for Sig-Replace short riser to cabinet | New UG Conduit for Comm Entrance | New Cabinet Entrance in New Foundation for Comm | New 1/2" Risers (WH) for Sig- Pedestrian Push Buttons | New 1" Risers (WH) for CCTV - CAT6 | New 1" Risers (WH) for Sig- New Electrical Service | New 2" Risers (WH) for Sig- New Foundation Location | New 2" Risers (attach to splice box) for Sig- New Foundation Location | New 2" Risers (WH) for System Detector | New 2" Risers (WH) for New Detection Loops | New 2" Risers (WH) for Sig (replace existing) | New UG conduit to new foundation location for Sig | New 2" short Risers for Sig (from terminal splice box or from UG) | Modify Existing Power Service - Install New Service Wires in Existing Conduit | Modify Existing Power Service - Install New Service Wires in New Conduit | Install Service Disconnect by Signal Cabinet | Install 50 Amp Breaker for Signal (Replace Existing) | Install 5/8" x 10' Grounding Electrode | Install New Electrical Service |  |   |  |
| 25                           | 07-0033           | US 70 (N. Church Street) at Cobb Avenue   | 6.037                      | 27.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  | 1   |   |                                    |  |   | 2   | 2                                      |  |   |   |   |   |  | 1  | 1  |  |                                |  |   |  |
| 26                           | 07-0034           | US 70-NC 62 (N. Church Street) at W. Trade Street   | 6.028                      | 28.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  | 1                                      |                                |  |   |  |
| 27                           | 07-0035           | US 70-NC 62 (S. Church Street) at NC 62 (Alamance Road)                                   | 6.019                      | 29.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   | 2                                      |  |   |   |   |   |  |  |  | 1                                      |                                |  |   |  |
| 28                           | 07-0036           | US 70 (N. Church Street) at Beaumont Avenue   | 6.036                      | 30.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 29                           | 07-0037           | SR 1716 (N. Graham-Hopedale Road) at Vaughn Road  | 6.189                      | 31.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  | 1  |   |   |   |   |  |  |  | 1                                      |                                |  |   |  |
| 30                           | 07-0040           | US 70 (N. Church Street) at SR 1719 (Sellars Mill Road)                                   | 6.039                      | 32.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 31                           | 07-0041           | US 70-NC 62 (S. Church Street) at Tarleton Avenue   | 6.020                      | 33.0   |  |  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  | 2   |   |  |  |   |   | 2   |   |  |  |  |  |                                |  | 1 |  |
| 32                           | 07-0042           | US 70-NC 62 (S. Church Street) at SR 1445/SR 1452 (O'Neal Street)                         | 6.019                      | 34.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 33                           | 07-0043           | NC 49-100 (Maple Avenue) at NC 49-54 (Harden Street)/NC 54 (Chapel Hill Road)             | 6.096                      | 35.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |  |   |  |
| 34                           | 07-0046           | US 70-NC 62 (S. Church Street) at Ruffin Street   | 6.028                      | 36.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  | 1                                      |                                |  |   |  |
| 35                           | 07-0047           | SR 1154 (Tucker Street) at E. Davis Street  | 6.121                      | 37.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 36                           | 07-0048           | Maple Avenue at SR 1154 (Tucker Street)   | 6.128                      | 38.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 37                           | 07-0049           | E. Morehead Street at SR 1154 (Tucker Street)   | 6.128                      | 39.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 38                           | 07-0058           | SR 1716 (Providence Road) at SR 1716 (Washington Street)                                  | 6.184                      | 40.0   | Y  |  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   |   |   |  | 1  | 1  |  |                                |  |   |  |
| 39                           | 07-0059           | SR 1716 (N. Main Street) at SR 2396 (W. Parker Street)                                    | 6.183                      | 41.0   |  |  |   |   |                                  |  |                             | 1   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  | 1                                      |                                |  |   |  |
| 40                           | 07-0060           | SR 1716 (N. Main Street) at N. Maple Street/Guthrie Street                                | 6.182                      | 42.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 41                           | 07-0062           | NC 49-54 (E. Harden Street) at N. Marshall Street   | 6.102                      | 43.0   | Y  |  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |  |   |  |
| 42                           | 07-0063           | NC 49 (E. Elm Street) at NC 54 (E. Harden Street)   | 6.103                      | 44.0   | Y  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |  |
| 43                           | 07-0064           | NC 87/SR 1716 (Main Street) at NC 49-54-87 (W. Harden Street)                             | 6.102                      | 45.0   | Y  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |  |   |  |
| 44                           | 07-0065           | NC 49-54-87 (W. Harden Street) at SR 2424 (N. Maple Street)                               | 6.101                      | 46.0   | Y  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |  |   |  |
| 45                           | 07-0066           | NC 87 (W. Elm Street) at Albany Street/Oakley Street                                      | 6.126                      | 47.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |  |   |  |
| 46                           | 07-0067           | NC 49-54-87 (W. Harden Street) at NC 87 (W. Elm Street)                                   | 6.100                      | 48.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  | 1                                      | 3                              |  |   |  |
| 47                           | 07-0068           | NC 87 (S. Main Street) at Pine Street   | 6.178                      | 49.0   | Y  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   | 1                                      |  |   |   |   |   |  |  |  |  | 1                              |  |   |  |
| 48                           | 07-0106           | NC 87-100 (W. Webb Avenue/University Drive) at NC 87 (Ossipee Road)/SR 1353 (E. Haggard A | 6.130                      | 50.0   |  |  |   |   | 1                                |  |                             |   |   |                                  |   |   | 1                                  |  |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |  |   |  |

25- JUN-2018 17:20 \*\*\*SCHLINS.COM\*\*\*C:\projects\GIS\A\Transportation\Traffic\Cur\100056469 U-6015 B-G Sig Sys\Task\_05\_11\_Signal\Vol 111\_Front\_Sheets\Sig 2.04.dgn ALEX3361 AT\_LUS340649

- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

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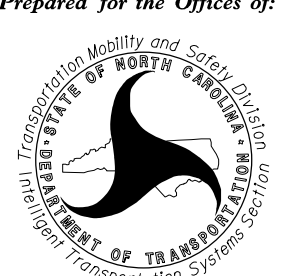
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1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
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Prepared for the Offices of:



Department of Transportation  
550 Greenfield Parkway, Garner, NC 27529


**Burlington-Graham Signal System  
Summary of Work by  
Intersection (Sheet 2 of 3)**

Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |



Designed by  
**Melissa B. Toth**  
6/26/2018  
DATE  
CADD Filename: Sig 2.04.dgn

NTS

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  | Signal Items                             |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
|------------------------------|-------------------|---|----------------------------|--|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|------------------------|-----------------------------|--------------|-----------------------------------|---------|------------|----------------|-----------------|---|---|---|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1, 2') | Underground Conduit (2, 2') | Directional Drill | Inductive Loop Sawcut | Loop Lead-in Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Stairwalk Guy Assembly | Type I Post with Foundation | Junction Box | Remove existing pedestrian signal | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24", 120 MILS | Thermoplastic Pavement Marking Lines (8", 120 MILS) | Thermoplastic White yield lines 90 MILS |
| 25                           | 07-0033           | US 70 (N. Church Street) at Cobb Avenue   | 6.037                      | 27.0   |  |                               |                               |                               |              |                        |                        | 650                         |                             |                   | 235                   | 2450               |      |           |                   |                            |                        |                             | 4            |                                   |         |            |                |                 |   |   |   |
| 26                           | 07-0034           | US 70-NC 62 (N. Church Street) at W. Trade Street   | 6.028                      | 28.0   |  | 1                             |                               |                               | 150          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 27                           | 07-0035           | US 70-NC 62 (S. Church Street) at NC 62 (Alamance Road)                                   | 6.019                      | 29.0   |  | 1                             | 1                             |                               | 210          | 2                      | 360                    | 20                          |                             |                   | 160                   | 1360               |      |           |                   |                            |                        |                             | 2            |                                   |         |            |                |                 |   |   |   |
| 28                           | 07-0036           | US 70 (N. Church Street) at Beaumont Avenue   | 6.036                      | 30.0   |  | 2                             | 2                             |                               | 330          | 2                      |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 29                           | 07-0037           | SR 1716 (N. Graham-Hopedale Road) at Vaughn Road  | 6.189                      | 31.0   |  |                               | 1                             |                               | 100          |                        |                        | 30                          |                             |                   | 70                    | 2500               |      |           |                   |                            |                        |                             | 1            |                                   |         |            |                |                 |   |   |   |
| 30                           | 07-0040           | US 70 (N. Church Street) at SR 1719 (Sellars Mill Road)                                   | 6.039                      | 32.0   |  |                               | 2                             |                               | 290          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 31                           | 07-0041           | US 70-NC 62 (S. Church Street) at Tarleton Avenue   | 6.020                      | 33.0   |  |                               | 1                             |                               | 1320         | 2                      |                        |                             | 20                          |                   |                       | 1570               |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 32                           | 07-0042           | US 70-NC 62 (S. Church Street) at SR 1445/SR 1452 (O'Neal Street)                         | 6.019                      | 34.0   |  | 2                             | 2                             |                               | 360          | 3                      |                        |                             |                             |                   |                       |                    |      |           |                   | 3                          |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 33                           | 07-0043           | NC 49-100 (Maple Avenue) at NC 49-54 (Harden Street)/NC 54 (Chapel Hill Road)             | 6.096                      | 35.0   |  |                               | 1                             |                               | 90           |                        |                        | 300                         |                             | 300               | 105                   | 1680               |      |           |                   |                            |                        |                             | 4            |                                   |         |            |                |                 |   |   |   |
| 34                           | 07-0046           | US 70-NC 62 (S. Church Street) at Ruffin Street   | 6.028                      | 36.0   |  |                               |                               |                               | 20           |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 35                           | 07-0047           | SR 1154 (Tucker Street) at E. Davis Street  | 6.121                      | 37.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 36                           | 07-0048           | Maple Avenue at SR 1154 (Tucker Street)   | 6.128                      | 38.0   |  |                               |                               |                               |              |                        |                        | 80                          |                             |                   | 90                    | 210                |      |           |                   | 3                          |                        |                             | 2            |                                   |         |            |                |                 |   |   |   |
| 37                           | 07-0049           | E. Morehead Street at SR 1154 (Tucker Street)   | 6.128                      | 39.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          | 1                      |                             |              |                                   |         |            |                |                 |   |   |   |
| 38                           | 07-0058           | SR 1716 (Providence Road) at SR 1716 (Washington Street)                                  | 6.184                      | 40.0   | Y  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 39                           | 07-0059           | SR 1716 (N. Main Street) at SR 2396 (W. Parker Street)                                    | 6.183                      | 41.0   |  | 8                             |                               |                               | 460          | 4                      |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          | 2                      |                             |              |                                   |         |            |                |                 |   |   |   |
| 40                           | 07-0060           | SR 1716 (N. Main Street) at N. Maple Street/Guthrie Street                                | 6.182                      | 42.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 41                           | 07-0062           | NC 49-54 (E. Harden Street) at N. Marshall Street   | 6.102                      | 43.0   | Y  | 8                             |                               |                               | 390          | 4                      |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        | 1                           |              |                                   |         |            |                |                 |   |   |   |
| 42                           | 07-0063           | NC 49 (E. Elm Street) at NC 54 (E. Harden Street)   | 6.103                      | 44.0   | Y  | 1                             |                               |                               | 170          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 43                           | 07-0064           | NC 87/SR 1716 (Main Street) at NC 49-54-87 (W. Harden Street)                             | 6.102                      | 45.0   | Y  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 44                           | 07-0065           | NC 49-54-87 (W. Harden Street) at SR 2424 (N. Maple Street)                               | 6.101                      | 46.0   | Y  | 8                             |                               |                               | 380          | 4                      |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 45                           | 07-0066           | NC 87 (W. Elm Street) at Albany Street/Oakley Street                                      | 6.126                      | 47.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 46                           | 07-0067           | NC 49-54-87 (W. Harden Street) at NC 87 (W. Elm Street)                                   | 6.100                      | 48.0   |  | 4                             | 1                             |                               | 570          |                        |                        |                             |                             |                   |                       | 1935               |      |           |                   |                            |                        |                             |              |                                   |         |            |                |                 |   |   |   |
| 47                           | 07-0068           | NC 87 (S. Main Street) at Pine Street   | 6.178                      | 49.0   | Y  | 4                             |                               |                               | 300          |                        |                        | 10                          |                             |                   | 45                    | 350                | 1    |           |                   |                            |                        |                             | 1            |                                   |         |            |                |                 |   |   |   |
| 48                           | 07-0106           | NC 87-100 (W. Webb Avenue/University Drive) at NC 87 (Ossipee Road)/SR 1353 (E. Haggard A | 6.130                      | 50.0   |  | 2                             | 1                             | 1                             | 730          | 2                      |                        | 60                          |                             |                   | 60                    | 70                 | 1    |           |                   |                            |                        |                             | 1            |                                   |         |            |                |                 |   |   |   |

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 - The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.

**ATKINS**

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| <p style="font-size: x-small;">Prepared for the Offices of:</p> <p style="font-size: x-small;">550 Greenfield Parkway, Garner, NC 27529</p> <p style="font-size: x-small;">SCALE<br/><b>NTS</b></p> | <p><b>Burlington-Graham Signal System</b><br/>                 Summary of Work by<br/>                 Intersection (Sheet 3 of 3)</p> <p style="font-size: small;">Division 7 Alamance County Burlington &amp; Graham</p> <p style="font-size: x-small;">PLAN DATE: <b>May 2018</b> REVIEWED BY: <b>MB Toth</b></p> <p style="font-size: x-small;">PREPARED BY: <b>PL Alexander</b> REVIEWED BY:</p> | <p style="font-size: x-small;">Designed by<br/><i>Melissa B. Toth</i><br/>DATE<br/>6/26/2018<br/>CADD Filename: Sig 2.05.dgn</p> |
|---|---|--|

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |  |                            |                            |  |                         | Controller, Cabinet & Foundation Work |                           |                         |                           |      |  |  |     |    |  |         |                         |   |                   |                            |   |               |              |             |  |                       |
|------------------------------|--|----------------------------|----------------------------|--|-------------------------|---------------------------------------|---------------------------|-------------------------|---------------------------|------|--|--|-----|----|--|---------|-------------------------|---|-------------------|----------------------------|---|---------------|--------------|-------------|--|-----------------------|
| NCDOT / City Signal Inv. No. | Intersection Name  | Cable Routing Sheet Number | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller       |                                       | Type 170 Cabinet          |                         | No. of New Detector Cards | Base |  |  |     |    |  | Comment | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |
|                              |  |                            |                            |  | New                     | Existing                              | New                       | Existing                |                           | 332  |  |  | 336 |    |  |         |                         |   |                   |                            |   |               |              |             |  |                       |
|                              |  |                            |                            |  | 332 with Auxiliary File | Adjacent to Existing                  | In Same Place as Existing | Relocated to (quadrant) |                           |      |  |  |     |    |  |         |                         |   |                   |                            |   |               |              |             |  |                       |
| 49                           | 07-0107 NC 87-100 (W. Webb Avenue) at SR 1522 (Lakeview Avenue)/Shopping Center Entrance | 6.132                      | 51.0                       |  | 1                       | 1                                     | 5                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   |                            |   |               | 1            | 21          |  |                       |
| 50                           | 07-0112 US 70 (S. Church Street) at SR 1158 (Huffman Mill Road)/Shadowbrook Drive        | 6.014                      | 52.0                       |  | 1                       | 1                                     | 12                        | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 51                           | 07-0115 US 70 (S. Church Street) at SR 1301 (S. Williamson Avenue/St. Marks Church Road) | 6.007                      | 53.0                       |  | 1                       | 1                                     | 11                        | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 52                           | 07-0121 US 70-NC 62 (N. Fisher Street) at W. Trade Street                                | 6.026                      | 54.0                       |  | 1                       | 1                                     | 0                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 270                        |   |               | 1            | 23          |  |                       |
| 53                           | 07-0125 US 70 (N. Church Street) at Fonville Street                                      | 6.029                      | 55.0                       |  | 1                       | 1                                     | 0                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   |               | 1            | 21          |  |                       |
| 54                           | 07-0126 US 70 (N. Fisher Street) at Ireland Street                                       | 6.029                      | 56.0                       |  | 1                       | 1                                     | 4                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   |               | 1            | 25          |  |                       |
| 55                           | 07-0127 US 70 (N. Church Street) at Ireland Street                                       | 6.029                      | 57.0                       |  | 1                       | 1                                     | 0                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   |               | 1            | 21          |  |                       |
| 56                           | 07-0128 SR 1363 (S. Mebane Street) at Maple Avenue                                       | 6.119                      | 58.0                       |  | 1                       | 1                                     | 7                         | 1                       |                           |      |  |  |     |    |  | 1       |                         |   | 0                 | 1                          |   |               |              |             |  |                       |
| 57                           | 07-0133 NC 62 (Alamance Road) at SR 1306/SR 1363 (S. Mebane Street)                      | 6.077                      | 59.0                       |  | 1                       | 1                                     | 14                        | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 58                           | 07-0148 NC 87-100 (W. Webb Avenue) at SR 1523 (Glen Raven Road)/Shopping Center Entrance | 6.133                      | 60.0                       |  | 1                       | 1                                     | 2                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   |                            |   |               | 1            | 24          |  |                       |
| 59                           | 07-0149 SR 1716 (S. Graham-Hopedale Road) at N. Mebane Street                            | 6.187                      | 61.0                       |  | 1                       | 1                                     | 11                        | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   | 1             |              |             |  |                       |
| 60                           | 07-0150 NC 87-100 (E. Webb Avenue) at Mebane Street                                      | 6.120                      | 62.0                       |  | 1                       | 1                                     | 6                         | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 61                           | 07-0155 NC 87 (S. Main Street) at I-40 EB-85 NB Ramps                                    | 6.176                      | 63.0                       |  | 1                       | 1                                     | 6                         | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 62                           | 07-0156 SR 2396 (E. Parker Street) at Pomeroy Street                                     | 6.194                      | 64.0                       |  | 1                       | 1                                     | 4                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 180                        |   |               | 1            | 23          |  |                       |
| 63                           | 07-0157 US 70-NC 62 (N. Fisher Street) at NC 62 (Rauhut Street)/W. Holt Street           | 6.027                      | 65.0                       |  | 1                       | 1                                     | 2                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   |               | 1            | 24          |  |                       |
| 64                           | 07-0158 US 70 (S. Church Street) at May Drive/Engleman Avenue                            | 6.017                      | 66.0                       |  | 1                       | 1                                     | 4                         | 1                       |                           |      |  |  | 1   | SW | from pole mounted SE quadrant, recable intersection  |         |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 65                           | 07-0159 NC 49 (Maple Avenue) at SR 2304 (Hanford Road)                                   | 6.114                      | 67.0                       |  | 1                       | 1                                     | 7                         | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 66                           | 07-0162 NC 49 (Maple Avenue) at I-40 WB-85 SB Ramps                                      | 6.115                      | 68.0                       |  | 1                       | 1                                     | 9                         | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 67                           | 07-0170 SR 1158 (Huffman Mill Road) at SR 1308 (Garden Road)/Cracker Barrel Access       | 6.065                      | 69.0                       |  | 1                       | 1                                     | 8                         | 1                       |                           |      |  |  |     |    | in order to retain sig comm during construction, will need to core drill another entrance because can't remove existing riser until after new conduit installed with new FO / replace disconnect |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 68                           | 07-0174 SR 1363 (S. Mebane Street) at E. Morehead Street                                 | 6.119                      | 70.0                       | Y  | 1                       | 1                                     | 4                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   |               | 1            | 22          |  |                       |
| 69                           | 07-0175 SR 1363 (S. Mebane Street) at E. Davis Street                                    | 6.119                      | 71.0                       | Y  | 1                       | 1                                     | 3                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   |               | 1            | 25          |  |                       |
| 70                           | 07-0178 SR 1719 (Sellars Mill Road) at N. Mebane Street                                  | 6.039                      | 72.0                       |  | 1                       | 1                                     | 7                         | 1                       |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 71                           | 07-0201 US 70 (N. Church Street) at N. Main Street/Holly Street                          | 6.035                      | 73.0                       |  | 1                       | 1                                     | 11                        | 1                       |                           |      |  |  |     |    | Existing power appears to be fine, foundation is good, new service wires since adding extender   |         |                         |   | 0                 | 1                          |   |               |              |             |  |                       |
| 72                           | 07-0206 SR 1323 (W. Front Street) at Tarleton Avenue                                     | 6.137                      | 74.0                       |  | 1                       | 1                                     | 4                         |                         |                           |      |  |  |     |    |  |         |                         |   |                   | 0                          |   |               | 1            | 17          |  |                       |

\*Reuse Existing

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|                           | <b>Burlington-Graham Signal System</b><br>Summary of Work by<br>Intersection (Sheet 1 of 3) |                      |                              |
|                           | Division 7 Alamance County  | Burlington & Graham  |                              |
|                           | PLAN DATE: May 2018   | REVIEWED BY: MB Toth |                              |
| PREPARED BY: PL Alexander | REVIEWED BY:  | REVISIONS            | INIT. DATE                   |
| SCALE: NTS                | DESIGNED BY: Melissa B. Toth  | DATE: 6/26/2018      | CADD File name: Sig 2.06.dgn |

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# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |  |                            |  |  | Conduit and Riser Work                                 |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   | Power Service   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   |   |  |
|------------------------------|-------------------|--|----------------------------|--|--|--|---|---|----------------------------------|--|-----------------------------|---|---|----------------------------------|---|---|------------------------------------|--|---|---|--|--|---|---|---|---|--|--|--|---------------------------------------|--------------------------------|--|--|---|---|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number  | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | Drill / Core Drill for 2" for FO or CAT6 | Intercept and use 2" Spare for Signal Cable or Lead-in | Reuse Ex. 1" (pole) or 2" (base) HST Dedicated Riser for Comm (Heat Shrink Kit) | Reuse Ex. 2" (or 3") Dedicated Conduit Entrance for UG Comm | Use 2" Spare Conduit for UG Comm | Use 2" Spare Riser for Comm (Heat Shrink Tubing Kit) | New 2" Riser (HST) for Comm | New 1-1/4" Riser (HST) for Comm to pole mid cabinet | New 1" Short Riser for Sig-Replace short riser to cabinet | New UG Conduit for Comm Entrance | New Cabinet Entrance in New Foundation for Comm | New 1/2" Risers (WH) for Sig- Pedestrian Push Buttons | New 1" Risers (WH) for CCTV - CAT6 | New 1" Risers (WH) for Sig- New Electrical Service | New 2" Risers (WH) for Sig- New Foundation Location | New 2" Risers (attach to splice box) for Sig- New Foundation Location | New 2" Risers (WH) for System Detector | New 2" Risers (WH) for New Detection Loops | New 2" Risers (WH) for Sig (replace existing) | New UG conduit to new foundation location for Sig | New 2" short Risers for Sig (from terminal splice box or from UG) | Modify Existing Power Service - Install New Service Wires in Existing Conduit | Modify Existing Power Service - Install New Service Wires in New Conduit | Install Service Disconnect by Signal Cabinet | Install 50 Amp Breaker for Signal (Replace Existing) | Install 50' x 10' Grounding Electrode | Install New Electrical Service |  |  |   |   |  |
| 49                           | 07-0107           | NC 87-100 (W. Webb Avenue) at SR 1522 (Lakeview Avenue)/Shopping Center Entrance | 6.132                      | 51.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  | 1 |   |  |
| 50                           | 07-0112           | US 70 (S. Church Street) at SR 1158 (Huffman Mill Road)/Shadowbrook Drive        | 6.014                      | 52.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   | 1  |  |  |                                       |                                |  |  |   |   |  |
| 51                           | 07-0115           | US 70 (S. Church Street) at SR 1301 (S. Williamson Avenue)/St. Marks Church Road | 6.007                      | 53.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   |   |  |
| 52                           | 07-0121           | US 70-NC 62 (N. Fisher Street) at W. Trade Street                                | 6.026                      | 54.0   |  |  |   |   |                                  |  |                             | 1   |   |                                  |   |   |                                    | 1  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 53                           | 07-0125           | US 70 (N. Church Street) at Fonville Street                                      | 6.029                      | 55.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 54                           | 07-0126           | US 70 (N. Fisher Street) at Ireland Street                                       | 6.029                      | 56.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 55                           | 07-0127           | US 70 (N. Church Street) at Ireland Street                                       | 6.029                      | 57.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 56                           | 07-0128           | SR 1363 (S. Mebane Street) at Maple Avenue                                       | 6.119                      | 58.0   |  |  | 1   |   |                                  |  |                             |   | 1   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   |   |  |
| 57                           | 07-0133           | NC 62 (Alamance Road) at SR 1306/SR 1363 (S. Mebane Street)                      | 6.077                      | 59.0   |  | 1  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 58                           | 07-0148           | NC 87-100 (W. Webb Avenue) at SR 1523 (Glen Raven Road)/Shopping Center Entrance | 6.133                      | 60.0   |  |  |   |   |                                  |  |                             | 1   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 59                           | 07-0149           | SR 1716 (S. Graham-Hopedale Road) at N. Mebane Street                            | 6.187                      | 61.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  | 1   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 60                           | 07-0150           | NC 87-100 (E. Webb Avenue) at Mebane Street                                      | 6.120                      | 62.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 3 |  |
| 61                           | 07-0155           | NC 87 (S. Main Street) at I-40 EB-85 NB Ramps                                    | 6.176                      | 63.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  | 1   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 62                           | 07-0156           | SR 2396 (E. Parker Street) at Pomeroy Street                                     | 6.194                      | 64.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   |   |  |
| 63                           | 07-0157           | US 70-NC 62 (N. Fisher Street) at NC 62 (Rauhut Street)/W. Holt Street           | 6.027                      | 65.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  | 1   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 64                           | 07-0158           | US 70 (S. Church Street) at May Drive/Engleman Avenue                            | 6.017                      | 66.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  | 1   |   |                                    |  |   | 2   |  |  | 2   |   |   | 2   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 65                           | 07-0159           | NC 49 (Maple Avenue) at SR 2304 (Hanford Road)                                   | 6.114                      | 67.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   |   |  |
| 66                           | 07-0162           | NC 49 (Maple Avenue) at I-40 WB-85 SB Ramps                                      | 6.115                      | 68.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   | 1   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 67                           | 07-0170           | SR 1158 (Huffman Mill Road) at SR 1308 (Garden Road)/Cracker Barrel Access       | 6.065                      | 69.0   |  | 1  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   | 1   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 68                           | 07-0174           | SR 1363 (S. Mebane Street) at E. Morehead Street                                 | 6.119                      | 70.0   | Y  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 69                           | 07-0175           | SR 1363 (S. Mebane Street) at E. Davis Street                                    | 6.119                      | 71.0   | Y  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   | 1   |   |   |  |  |  |                                       |                                |  |  |   |   |  |
| 70                           | 07-0178           | SR 1719 (Sellars Mill Road) at N. Mebane Street                                  | 6.039                      | 72.0   |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 71                           | 07-0201           | US 70 (N. Church Street) at N. Main Street/Holly Street                          | 6.035                      | 73.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   | 1   |   |   |  |  |  |                                       |                                |  |  |   | 1 |  |
| 72                           | 07-0206           | SR 1323 (W. Front Street) at Tarleton Avenue                                     | 6.137                      | 74.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |                                       |                                |  |  |   |   |  |

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- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.

| <p>1616 EAST MILLBROOK ROAD, SUITE 160<br/>RALEIGH, NORTH CAROLINA 27609<br/>(919) 876-6888 NCBES #F-0326</p> | <p><b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b></p>   |       |           |       |      |  |  |  |  |  |  |  |  |  |  |  |  |
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| <p>Prepared for the Offices of:<br/> <br/>                 TRANSPORTATION</p>                                 | <p><b>Burlington-Graham Signal System<br/>Summary of Work by<br/>Intersection (Sheet 2 of 3)</b></p> <p>Division 7 Alamance County Burlington &amp; Graham</p> <p>PLAN DATE: May 2018 REVIEWED BY: MB Toth</p> <p>PREPARED BY: PL Alexander REVIEWED BY:</p>  |       |           |       |      |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>750 Greenfield Parkway, Garner, NC 27529</p> <p>SCALE<br/><b>NTS</b></p>                                   | <table border="1"> <thead> <tr> <th>NO.</th> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>Designed by: <b>Melissa B. Toth</b> 6/26/2018<br/>                 DATE<br/>                 CADD Filename: Sig 2.07.dgn</p> | NO.   | REVISIONS | INIT. | DATE |  |  |  |  |  |  |  |  |  |  |  |  |
| NO.   | REVISIONS   | INIT. | DATE      |       |      |  |  |  |  |  |  |  |  |  |  |  |  |
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# SUMMARY OF WORK BY INTERSECTION


| Reference Information        |  |                           |                            |  | Signal Items                             |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
|------------------------------|--|---------------------------|----------------------------|--|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|-----------------------|-----------------------------|--------------|-----------------------------------|---------|------------|----------------|-----------------|---|---|--|--|
| NCDOT / CITY SIGNAL INV. NO. | Intersection Name  | Cable Layout Sheet Number | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1, 2') | Underground Conduit (2, 2') | Directional Drill | Inductive Loop Sawcut | Loop Lead-in Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Sidewalk Guy Assembly | Type I Post with Foundation | Junction Box | Remove existing pedestrian signal | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24", 120 MILS | Thermoplastic Pavement Marking Lines (6", 120 MILS) | Thermoplastic White yield lines, 90 MILS |  |
| 49                           | 07-0107 NC 87-100 (W. Webb Avenue) at SR 1522 (Lakeview Avenue)/Shopping Center Entrance | 6.132                     | 51.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 50                           | 07-0112 US 70 (S. Church Street) at SR 1158 (Huffman Mill Road)/Shadowbrook Drive        | 6.014                     | 52.0                       |  |  | 1                             |                               |                               | 380          |                        |                        | 160                         |                             |                   | 140                   | 1100               |      |           |                   |                            |                       |                             | 2            |                                   |         |            |                |                 |   |   |  |  |
| 51                           | 07-0115 US 70 (S. Church Street) at SR 1301 (S. Williamson Avenue)/St. Marks Church Road | 6.007                     | 53.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 52                           | 07-0121 US 70-NC 62 (N. Fisher Street) at W. Trade Street                                | 6.026                     | 54.0                       |  |  | 2                             |                               |                               | 290          |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 53                           | 07-0125 US 70 (N. Church Street) at Fonville Street                                      | 6.029                     | 55.0                       |  |  | 1                             |                               |                               | 20           |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 54                           | 07-0126 US 70 (N. Fisher Street) at Ireland Street                                       | 6.029                     | 56.0                       |  | 2  | 1                             |                               |                               | 370          |                        |                        | 60                          |                             |                   | 190                   | 500                |      |           |                   | 1                          |                       | 1                           | 1            |                                   |         |            |                |                 |   |   |  |  |
| 55                           | 07-0127 US 70 (N. Church Street) at Ireland Street                                       | 6.029                     | 57.0                       |  |  | 1                             |                               |                               | 200          |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          | 1                     |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 56                           | 07-0128 SR 1363 (S. Mebane Street) at Maple Avenue                                       | 6.119                     | 58.0                       |  |  | 4                             | 2                             |                               | 1260         |                        |                        |                             |                             |                   |                       | 310                |      |           |                   | 4                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 57                           | 07-0133 NC 62 (Alamance Road) at SR 1306/SR 1363 (S. Mebane Street)                      | 6.077                     | 59.0                       |  |  | 2                             | 2                             |                               | 510          |                        |                        | 370                         | 70                          | 200               | 1870                  |                    |      |           |                   |                            |                       |                             | 4            |                                   |         |            |                |                 |   |   |  |  |
| 58                           | 07-0148 NC 87-100 (W. Webb Avenue) at SR 1523 (Glen Raven Road)/Shopping Center Entrance | 6.133                     | 60.0                       |  |  |                               |                               |                               |              |                        |                        | 110                         |                             |                   | 110                   | 630                |      |           |                   |                            |                       |                             | 2            |                                   |         |            |                |                 |   |   |  |  |
| 59                           | 07-0149 SR 1716 (S. Graham-Hopedale Road) at N. Mebane Street                            | 6.187                     | 61.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 60                           | 07-0150 NC 87-100 (E. Webb Avenue) at Mebane Street                                      | 6.120                     | 62.0                       |  |  | 4                             |                               |                               | 1030         |                        |                        |                             |                             |                   |                       | 1030               |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 61                           | 07-0155 NC 87 (S. Main Street) at I-40 EB-85 NB Ramps                                    | 6.176                     | 63.0                       |  |  | 1                             | 1                             |                               | 190          |                        |                        | 40                          |                             |                   | 100                   | 410                |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |   |   |  |  |
| 62                           | 07-0156 SR 2396 (E. Parker Street) at Pomeroy Street                                     | 6.194                     | 64.0                       |  |  | 8                             |                               |                               | 360          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 63                           | 07-0157 US 70-NC 62 (N. Fisher Street) at NC 62 (Rauhut Street)/W. Holt Street           | 6.027                     | 65.0                       |  |  | 1                             |                               |                               | 20           |                        |                        |                             |                             |                   | 180                   | 980                |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |   |   |  |  |
| 64                           | 07-0158 US 70 (S. Church Street) at May Drive/Engleman Avenue                            | 6.017                     | 66.0                       |  |  |                               |                               |                               | 640          |                        |                        | 70                          |                             |                   | 160                   | 2920               |      |           |                   |                            |                       |                             | 3            |                                   |         |            |                |                 |   |   |  |  |
| 65                           | 07-0159 NC 49 (Maple Avenue) at SR 2304 (Hanford Road)                                   | 6.114                     | 67.0                       |  |  | 2                             | 2                             |                               | 330          |                        |                        |                             |                             |                   |                       | 1250               |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 66                           | 07-0162 NC 49 (Maple Avenue) at I-40 WB-85 SB Ramps                                      | 6.115                     | 68.0                       |  |  |                               |                               |                               |              |                        |                        | 140                         |                             |                   | 100                   | 660                |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |   |   |  |  |
| 67                           | 07-0170 SR 1158 (Huffman Mill Road) at SR 1308 (Garden Road)/Cracker Barrel Access       | 6.065                     | 69.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   | 80                    | 620                |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 68                           | 07-0174 SR 1363 (S. Mebane Street) at E. Morehead Street                                 | 6.119                     | 70.0                       | Y  |  |                               |                               |                               |              |                        |                        | 80                          | 50                          | 40                | 150                   |                    |      |           |                   | 2                          |                       |                             | 2            |                                   |         |            |                |                 |   |   |  |  |
| 69                           | 07-0175 SR 1363 (S. Mebane Street) at E. Davis Street                                    | 6.119                     | 71.0                       | Y  |  |                               |                               |                               |              |                        |                        | 60                          |                             |                   | 110                   | 610                |      |           |                   | 2                          |                       |                             | 1            |                                   |         |            |                |                 |   |   |  |  |
| 70                           | 07-0178 SR 1719 (Sellars Mill Road) at N. Mebane Street                                  | 6.039                     | 72.0                       |  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 71                           | 07-0201 US 70 (N. Church Street) at N. Main Street/Holly Street                          | 6.035                     | 73.0                       |  |  | 1                             | 3                             | 1                             | 300          | 170                    | 240                    |                             |                             |                   | 230                   | 2530               | 1    |           |                   | 4                          | 1                     |                             | 3            |                                   |         |            |                |                 |   |   |  |  |
| 72                           | 07-0206 SR 1323 (W. Front Street) at Tarleton Avenue                                     | 6.137                     | 74.0                       |  |  | 9                             |                               |                               | 170          |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 3                          |                       |                             | 1            |                                   |         |            |                |                 |   |   |  |  |

10-Jul-2018 17:38 \*\*\*sht:ins.com\*\*\*Project:USRA\*Transportation\*Traffic\*U-6015 B-G Sig-System\*Task:05\_11\_Signal\*Vol: III Front Sheets\*Sig: 2.08.dgn ALEX3361 AT LUS340649

- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

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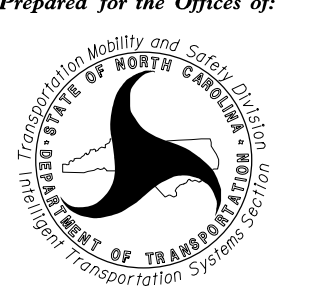
Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact **Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation** for an effects determination before proceeding.



1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBEEES #F-0326

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

Prepared for the Offices of:



750 Greenfield Parkway, Garner, NC 27529

**Burlington-Graham Signal System**  
Summary of Work by  
Intersection (Sheet 3 of 3)

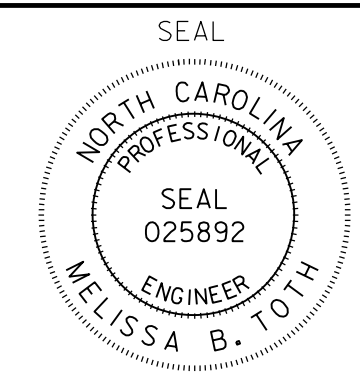
Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
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|           |       |      |

SCALE: **NTS**



Designed by: Melissa B. Toth  
7/11/2018  
DATE: \_\_\_\_\_  
CADD Filename: Sig 2.08.dgn

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |  |                            |                            |  |                   | Controller, Cabinet & Foundation Work |                  |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
|------------------------------|--|----------------------------|----------------------------|--|-------------------|---------------------------------------|------------------|----------|---------------------------|------|-------------------------|-----|------------------------|---------------------------|--|---------|--|-------------------------|---|-------------------|----------------------------|---|---------------|--------------|-------------|--|-----------------------|-----|----|--|--|--|--|--|--|
| NCDOT / City Signal Inv. No. | Intersection Name  | Cable Routing Sheet Number | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller |                                       | Type 170 Cabinet |          | No. of New Detector Cards | Base |                         |     | Install New Foundation |                           |  |         |  | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (3365) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |     |    |  |  |  |  |  |  |
|                              |  |                            |                            |  | New               | Existing                              | New              | Existing |                           | 332  | 332 with Auxiliary File | 336 | Adjacent to Existing   | In Same Place as Existing | Relocated to (quadrant)  | Comment |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 73                           | 07-0210 NC 87-100 (W. Webb Avenue) at S. Worth Street                                      | 6.127                      | 75.0                       |  | 1                 | 1                                     | 1                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 74                           | 07-0220 NC 62 (Alamance Road) at I-40 EB-85 NB Ramps                                       | 6.089                      | 76.0                       |  | 1                 | 1                                     | 6                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 75                           | 07-0263 SR 1716 (N. Graham-Hopedale Road) at SR 1343 (Martin Street) [Future]              | 6.188                      | 77.0                       |  |                   |                                       |                  |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 76                           | 07-0292 SR 1716 (S. Graham-Hopedale Road) at SR 1720 (W. Hanover Road)                     | 6.185                      | 78.0                       |  | 1                 | 1                                     | 3                | 1        |                           |      |                         |     | 1                      | SE                        | pole mounted to base mounted - recable for new heads and existing loops so no terminal splice box  |         |  |                         |   |                   |                            |   |               |              |             | 1                                      |                       |     | 22 |  |  |  |  |  |  |
| 77                           | 07-0350 NC 62 (Rauhut Street) at SR 1537 (Sharpe Road)                                     | 6.160                      | 79.0                       |  | 1                 | 1                                     | 4                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 78                           | 07-0410 SR 1158 (Huffman Mill Road) at I-40 EB-85 NB Ramps                                 | 6.064                      | 80.0                       |  | 1                 | 1                                     | 7                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 79                           | 07-0415 NC 87-100 (W. Webb Avenue) at SR 1530 (Elmira Street) and SR 1522 (N. Park Avenue) | 6.142                      | 81.0                       |  | 1                 | 1                                     | 8                | 1        |                           |      |                         |     |                        |                           | RR Preempt   |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 80                           | 07-0857 NC 49 (Maple Avenue) at SR 1398 (Plantation Drive)                                 | 6.115                      | 82.0                       |  | 1                 | 1                                     | 6                | 1        |                           |      |                         |     |                        |                           | Existing base adapter short  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 81                           | 07-0868 SR 1158 (Huffman Mill Road) at SR 1306 (S. Mebane Street)/Holly Hill Mall          | 6.068                      | 83.0                       |  | 1                 | 1                                     | 12               | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 82                           | 07-0872 US 70-NC 62 (S. Fisher Street) at W. Maple Avenue                                  | 6.024                      | 84.0                       |  | 1                 | 1                                     | 0                |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 83                           | 07-0873 US 70 (S. Fisher Street) at NC 87-100 (Webb Avenue)                                | 6.025                      | 85.0                       |  | 1                 | 1                                     | 1                | 1        |                           |      |                         |     | 1                      | S                         | Removing PM cabinet and installing BM cabinet in new location - S quadrant   |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 84                           | 07-0891 SR 1719 (Pomeroy Street)/(N. Sellers Mill Road) at SR 1720 (Hanover Road)          | 6.193                      | 86.0                       |  | 1                 | 1                                     | 4                |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 85                           | 07-0897 NC 87 (S. Main Street) at SR 2100 (Gilbreath Street)                               | 6.177                      | 87.0                       |  | 1                 | 1                                     | 7                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 86                           | 07-0932 US 70 (S. Church Street) at Edgewood Avenue/Edgewood Village Shopping Center       | 6.012                      | 88.0                       |  | 1                 | 1                                     | 6                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 87                           | 07-0955 SR 1158 (Huffman Mill Road) at I-40 WB-85 SB Ramps                                 | 6.064                      | 89.0                       |  | 1                 | 1                                     | 7                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 88                           | 07-0961 NC 62 (Alamance Road) at SR 1450 (Eric Lane)                                       | 6.089                      | 90.0                       |  | 1                 | 1                                     | 6                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 89                           | 07-0980 US 70-NC 62 (S. Fisher Street) at SR 1323 (W. Front Street)                        | 6.025                      | 91.0                       |  | 1                 | 1                                     | 0                |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 90                           | 07-0981 US 70-NC 62 (S. Fisher Street) at W. Davis Street                                  | 6.025                      | 92.0                       |  | 1                 | 1                                     | 0                |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 91                           | 07-0982 US 70-NC 62 (S. Fisher Street) at Morehead Street                                  | 6.024                      | 93.0                       |  | 1                 | 1                                     | 0                |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 92                           | 07-1026 SR 1158 (Huffman Mill Road) at Forestdale Drive/The Brittany Apartments            | 6.066                      | 94.0                       |  | 1                 | 1                                     | 7                | 1        |                           |      |                         |     | 1                      |                           | modified foundation coming apart - new foundation adjacent to existing. Recable intersection since already recabling for new heads and new loops |         |  |                         |   |                   |                            |   |               |              |             |  | 1                     | 315 | 1  |  |  |  |  |  |  |
| 93                           | 07-1030 NC 54 (Chapel Hill Road) at Corporation Parkway                                    | 6.094                      | 95.0                       |  | 1                 | 1                                     | 5                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 94                           | 07-1038 NC 87 (S. Main Street) at SR 2309 (Rogers Road)/Webster Road                       | 6.173                      | 96.0                       |  | 1                 | 1                                     | 4                | 1        |                           |      |                         |     |                        |                           | Changing from pole mount to base mount; recabling intersection   |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 95                           | 07-1049 US 70 (S. Church Street) at SR 1309 (Westbrook Avenue)                             | 6.007                      | 97.0                       |  | 1                 | 1                                     | 4                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |
| 96                           | 07-1051 NC 54 (E. Harden Street) at I-40 WB-85 SB Ramps                                    | 6.106                      | 98.0                       |  | 1                 | 1                                     | 5                | 1        |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |     |    |  |  |  |  |  |  |

\*Reuse Existing

- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.  
 - The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888 NCBES #F-0326

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

750 Greenfield Parkway, Garner, NC 27529

**Burlington-Graham Signal System**  
 Summary of Work by Intersection (Sheet 1 of 3)

Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

SCALE: NTS

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEER**

SEAL 025892

MELISSA B. TOOTH

7/11/2018

CADD Filename: Sig 2.09.dgn

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 ALEX3361 AT LUS340649


# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |  |                            |  | Conduit and Riser Work                   |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  | Power Service                              |   |   |   |   |  |  |  |  |                                |  |   |   |
|------------------------------|-------------------|--|----------------------------|--|--|--|---|---|----------------------------------|--|-----------------------------|---|---|----------------------------------|---|---|------------------------------------|--|---|---|--|--|---|---|---|---|--|--|--|--|--------------------------------|--|---|---|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number  | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | Drill / Core Drill for 2" for FO or CAT6 | Intercept and use 2" Spare for Signal Cable or Lead-in | Reuse Ex. 1" (pole) or 2" (base) HST Dedicated Riser for Comm (Heat Shrink Kit) | Reuse Ex. 2" (or 3") Dedicated Conduit Entrance for UG Comm | Use 2" Spare Conduit for UG Comm | Use 2" Spare Riser for Comm (Heat Shrink Tubing Kit) | New 2" Riser (HST) for Comm | New 1-1/4" Riser (HST) for Comm to pole mid cabinet | New 1" Short Riser for Sig-Replace short riser to cabinet | New UG Conduit for Comm Entrance | New Cabinet Entrance in New Foundation for Comm | New 1/2" Risers (WH) for Sig- Pedestrian Push Buttons | New 1" Risers (WH) for CCTV - CAT6 | New 1" Risers (WH) for Sig- New Electrical Service | New 2" Risers (WH) for Sig- New Foundation Location | New 2" Risers (attach to splice box) for Sig- New Foundation Location | New 2" Risers (WH) for System Detector | New 2" Risers (WH) for New Detection Loops | New 2" Risers (WH) for Sig (replace existing) | New UG conduit to new foundation location for Sig | New 2" short Risers for Sig (from terminal splice box or from UG) | Modify Existing Power Service - Install New Service Wires in Existing Conduit | Modify Existing Power Service - Install New Service Wires in New Conduit | Install Service Disconnect by Signal Cabinet | Install 50 Amp Breaker for Signal (Replace Existing) | Install 5/8" x 10' Grounding Electrode | Install New Electrical Service |  |   |   |
| 73                           | 07-0210           | NC 87-100 (W. Webb Avenue) at S. Worth Street                                      | 6.127                      | 75.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 74                           | 07-0220           | NC 62 (Alamance Road) at I-40 EB-85 NB Ramps                                       | 6.089                      | 76.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 3 |
| 75                           | 07-0263           | SR 1716 (N. Graham-Hopedale Road) at SR 1343 (Martin Street) [Future]              | 6.188                      | 77.0   |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 76                           | 07-0292           | SR 1716 (S. Graham-Hopedale Road) at SR 1720 (W. Hanover Road)                     | 6.185                      | 78.0   |  |  |   |   |                                  |  | 1                           |   |   |                                  |   |   |                                    |  |   |   |  |  | 1   |   |   |   |  |  |  |  |                                |  | 3 | 1 |
| 77                           | 07-0350           | NC 62 (Rauhut Street) at SR 1537 (Sharpe Road)                                     | 6.160                      | 79.0   |  |  |   |   |                                  |  | 1                           |   |   |                                  | 1   |   |                                    |  |   |   |  |  | 2   | 1   |   |   |  |  |  |  |                                |  | 1 | 3 |
| 78                           | 07-0410           | SR 1158 (Huffman Mill Road) at I-40 EB-85 NB Ramps                                 | 6.064                      | 80.0   |  |  |   |   |                                  |  | 1                           |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |  | 3 |   |
| 79                           | 07-0415           | NC 87-100 (W. Webb Avenue) at SR 1530 (Elmira Street) and SR 1522 (N. Park Avenue) | 6.142                      | 81.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |
| 80                           | 07-0857           | NC 49 (Maple Avenue) at SR 1398 (Plantation Drive)                                 | 6.115                      | 82.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |
| 81                           | 07-0868           | SR 1158 (Huffman Mill Road) at SR 1306 (S. Mebane Street)/Holly Hill Mall          | 6.068                      | 83.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |
| 82                           | 07-0872           | US 70-NC 62 (S. Fisher Street) at W. Maple Avenue                                  | 6.024                      | 84.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |  |   | 1 |
| 83                           | 07-0873           | US 70 (S. Fisher Street) at NC 87-100 (Webb Avenue)                                | 6.025                      | 85.0   |  |  |   |   |                                  |  | 1                           |   |   |                                  | 1   |   |                                    | 1  | 2   |   |  |  |   | 2   |   |   |  |  |  |  |                                |  | 3 | 1 |
| 84                           | 07-0891           | SR 1719 (Pomeroy Street)/(N. Sellers Mill Road) at SR 1720 (Hanover Road)          | 6.193                      | 86.0   |  |  |   |   |                                  |  |                             | 1   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |
| 85                           | 07-0897           | NC 87 (S. Main Street) at SR 2100 (Gilbreath Street)                               | 6.177                      | 87.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |
| 86                           | 07-0932           | US 70 (S. Church Street) at Edgewood Avenue/Edgewood Village Shopping Center       | 6.012                      | 88.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 87                           | 07-0955           | SR 1158 (Huffman Mill Road) at I-40 WB-85 SB Ramps                                 | 6.064                      | 89.0   |  |  |   |   | 1                                |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 88                           | 07-0961           | NC 62 (Alamance Road) at SR 1450 (Eric Lane)                                       | 6.089                      | 90.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 89                           | 07-0980           | US 70-NC 62 (S. Fisher Street) at SR 1323 (W. Front Street)                        | 6.025                      | 91.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 90                           | 07-0981           | US 70-NC 62 (S. Fisher Street) at W. Davis Street                                  | 6.025                      | 92.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 91                           | 07-0982           | US 70-NC 62 (S. Fisher Street) at Morehead Street                                  | 6.024                      | 93.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 92                           | 07-1026           | SR 1158 (Huffman Mill Road) at Forestdale Drive/The Brittany Apartments            | 6.066                      | 94.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   | 1                                  |  |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |  |   |   |
| 93                           | 07-1030           | NC 54 (Chapel Hill Road) at Corporation Parkway                                    | 6.094                      | 95.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |
| 94                           | 07-1038           | NC 87 (S. Main Street) at SR 2309 (Rogers Road)/Webster Road                       | 6.173                      | 96.0   |  |  |   |   |                                  |  | 1                           |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   |   |
| 95                           | 07-1049           | US 70 (S. Church Street) at SR 1309 (Westbrook Avenue)                             | 6.007                      | 97.0   |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |
| 96                           | 07-1051           | NC 54 (E. Harden Street) at I-40 WB-85 SB Ramps                                    | 6.106                      | 98.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |  |   | 1 |

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 ALEX3361 AT LUS240649

- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

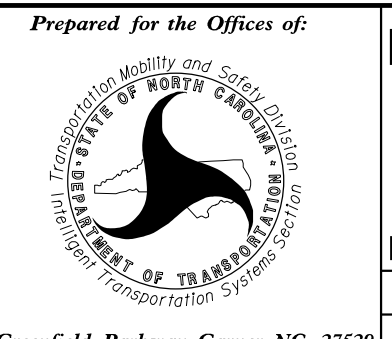
- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.



1616 EAST MILLBROOK ROAD, SUITE 160  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:



750 Greenfield Parkway, Garner, NC 27529

SCALE  
**NTS**

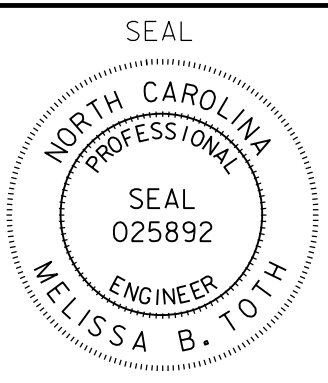
**Burlington-Graham Signal System**  
 Summary of Work by  
 Intersection (Sheet 2 of 3)

Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |



Designed by  
**Melissa B. Toth**  
DATE  
6/26/2018

CADD Filename: Sig 2.10.dgn

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |  |                            |  | Signal Items                             |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
|------------------------------|-------------------|--|----------------------------|--|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|-----------------------|-----------------------------|--------------|-----------|---------|------------|----------------|-----------------|---|---|--|
| NCDOT / CITY SIGNAL INV. NO. | Intersection Name | Cable Layout Sheet Number  | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1, 2") | Underground Conduit (2, 2") | Directional Drill | Inductive Loop Sawcut | Loop Lead-In Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Sidewalk Guy Assembly | Type I Post with Foundation | Junction Box | Backplate | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24", 120 MILS | Thermoplastic Pavement Marking Lines (6", 120 MILS) | Thermoplastic White yield lines, 90 MILS |
| 73                           | 07-0210           | NC 87-100 (W. Webb Avenue) at S. Worth Street                                      | 6.127                      | 75.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 74                           | 07-0220           | NC 62 (Alamance Road) at I-40 EB-85 NB Ramps                                       | 6.089                      | 76.0   |  |                               | 1                             | 1                             | 400          | 1                      |                        |                             |                             |                   |                       | 530                |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 75                           | 07-0263           | SR 1716 (N. Graham-Hopedale Road) at SR 1343 (Martin Street) [Future]              | 6.188                      | 77.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 76                           | 07-0292           | SR 1716 (S. Graham-Hopedale Road) at SR 1720 (W. Hanover Road)                     | 6.185                      | 78.0   |  |                               | 8                             |                               | 580          | 3                      |                        | 60                          | 20                          |                   | 40                    | 640                |      | 1         |                   | 4                          |                       |                             |              |           |         |            |                |                 |   |   |  |
| 77                           | 07-0350           | NC 62 (Rauhut Street) at SR 1537 (Sharpe Road)                                     | 6.160                      | 79.0   |  |                               |                               |                               |              |                        | 440                    | 65                          |                             |                   | 225                   | 1350               |      |           |                   | 2                          |                       |                             | 3            |           |         |            |                |                 |   |   |  |
| 78                           | 07-0410           | SR 1158 (Huffman Mill Road) at I-40 EB-85 NB Ramps                                 | 6.064                      | 80.0   |  |                               |                               | 2                             | 280          | 1                      |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 79                           | 07-0415           | NC 87-100 (W. Webb Avenue) at SR 1530 (Elmira Street) and SR 1522 (N. Park Avenue) | 6.142                      | 81.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 80                           | 07-0857           | NC 49 (Maple Avenue) at SR 1398 (Plantation Drive)                                 | 6.115                      | 82.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 81                           | 07-0868           | SR 1158 (Huffman Mill Road) at SR 1306 (S. Mebane Street)/Holly Hill Mall          | 6.068                      | 83.0   |  |                               |                               | 2                             | 390          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 82                           | 07-0872           | US 70-NC 62 (S. Fisher Street) at W. Maple Avenue                                  | 6.024                      | 84.0   |  |                               | 6                             |                               | 90           |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          |                       |                             |              |           |         |            |                |                 |   |   |  |
| 83                           | 07-0873           | US 70 (S. Fisher Street) at NC 87-100 (Webb Avenue)                                | 6.025                      | 85.0   |  |                               |                               | 1                             | 920          |                        |                        | 30                          |                             | 190               | 30                    |                    |      |           |                   |                            |                       |                             | 1            |           |         |            |                |                 |   |   |  |
| 84                           | 07-0891           | SR 1719 (Pomeroy Street)/(N. Sellers Mill Road) at SR 1720 (Hanover Road)          | 6.193                      | 86.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 85                           | 07-0897           | NC 87 (S. Main Street) at SR 2100 (Gilbreath Street)                               | 6.177                      | 87.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 86                           | 07-0932           | US 70 (S. Church Street) at Edgewood Avenue/Edgewood Village Shopping Center       | 6.012                      | 88.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 87                           | 07-0955           | SR 1158 (Huffman Mill Road) at I-40 WB-85 SB Ramps                                 | 6.064                      | 89.0   |  |                               | 1                             | 1                             | 160          |                        |                        |                             |                             |                   |                       |                    | 2    |           |                   |                            |                       |                             |              |           |         | 2          |                |                 |   |   |  |
| 88                           | 07-0961           | NC 62 (Alamance Road) at SR 1450 (Eric Lane)                                       | 6.089                      | 90.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 89                           | 07-0980           | US 70-NC 62 (S. Fisher Street) at SR 1323 (W. Front Street)                        | 6.025                      | 91.0   |  |                               | 6                             |                               | 670          | 2                      |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          | 1                     |                             |              |           |         |            |                |                 |   |   |  |
| 90                           | 07-0981           | US 70-NC 62 (S. Fisher Street) at W. Davis Street                                  | 6.025                      | 92.0   |  |                               | 6                             |                               | 310          | 2                      |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 91                           | 07-0982           | US 70-NC 62 (S. Fisher Street) at Morehead Street                                  | 6.024                      | 93.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 92                           | 07-1026           | SR 1158 (Huffman Mill Road) at Forestdale Drive/The Brittany Apartments            | 6.066                      | 94.0   |  |                               | 4                             | 1                             | 1            | 1390                   | 180                    | 240                         |                             |                   | 430                   | 2340               |      |           | 1                 |                            |                       |                             | 3            |           |         |            |                |                 |   |   |  |
| 93                           | 07-1030           | NC 54 (Chapel Hill Road) at Corporation Parkway                                    | 6.094                      | 95.0   |  |                               | 1                             | 1                             | 200          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 94                           | 07-1038           | NC 87 (S. Main Street) at SR 2309 (Rogers Road)/Webster Road                       | 6.173                      | 96.0   |  |                               |                               |                               | 460          |                        |                        | 100                         |                             |                   | 70                    | 1060               |      |           |                   |                            |                       |                             | 1            |           |         |            |                |                 |   |   |  |
| 95                           | 07-1049           | US 70 (S. Church Street) at SR 1309 (Westbrook Avenue)                             | 6.007                      | 97.0   |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |           |         |            |                |                 |   |   |  |
| 96                           | 07-1051           | NC 54 (E. Harden Street) at I-40 WB-85 SB Ramps                                    | 6.106                      | 98.0   |  |                               | 2                             | 1                             | 270          |                        |                        |                             |                             | 50                |                       | 45                 | 540  |           |                   |                            |                       |                             | 1            |           |         |            |                |                 |   |   |  |

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- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBEE'S #F-0326

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

**Burlington-Graham Signal System  
Summary of Work by  
Intersection (Sheet 3 of 3)**

Division 7 Alamance County Burlington & Graham

PLAN DATE: **May 2018** REVIEWED BY: **MB Toth**

PREPARED BY: **PL Alexander** REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |
|           |       |      |

SCALE: **NTS**

SEAL

Designed by: **Melissa B. Toth** 6/26/2018  
DATE  
CADD Filename: Sig 2.11.dgn



# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  |                   | Controller,Cabinet & Foundation Work |                  |                      |                           |                         |   |         |                         |   |  |                            |   |               |              |             |  |                       |  |  |
|------------------------------|-------------------|---|----------------------------|--|-------------------|--------------------------------------|------------------|----------------------|---------------------------|-------------------------|---|---------|-------------------------|---|--|----------------------------|---|---------------|--------------|-------------|--|-----------------------|--|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Routing Sheet Number  | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller |                                      | Type 170 Cabinet |                      | Base                      |                         |   |         |                         |   | Install New Foundation   |                            |   |               |              |             |  |                       |  |  |
|                              |                   |   |                            |  | New               | Existing                             | New              | Existing             | No. of New Detector Cards |                         |   | Comment | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation  | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |  |  |
|                              |                   |   |                            |  | 332               | 332 with Auxiliary File              | 336              | Adjacent to Existing | In Same Place as Existing | Relocated to (quadrant) |   |         |                         |   |  |                            |   |               |              |             |  |                       |  |  |
| 97                           | 07-1052           | NC 54 (E. Harden Street) at I-40 EB-85 NB Ramps                                     | 6.106                      | 99.0   |                   | 1                                    | 1                | 5                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 98                           | 07-1053           | NC 49-54 (W. Harden Street) at La Vista Drive                                       | 6.097                      | 100.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   | existing adapter short   |                            |   |               | 0            |             | 1                                      |                       |  |  |
| 99                           | 07-1056           | NC 49 (E. Elm Street) at SR 1943 (Trollinger Road)                                  | 6.196                      | 101.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   | cab foundation appears to be smallish but don't have measurements. Assume ok as is |                            |   |               | 0            | 1           |  |                       |  |  |
| 100                          | 07-1062           | US 70 (S. Church Street) at Gurney Street   | 6.016                      | 102.0  |                   | 1                                    | 1                | 6                    | 1                         |                         |   |         |                         |   | no existing extender   |                            |   |               | 0            | 1           |  |                       |  |  |
| 101                          | 07-1064           | NC 49-54 (W. Harden Street) at W. Pine Street                                       | 6.099                      | 103.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | 1           |  |                       |  |  |
| 102                          | 07-1066           | NC 49 (Maple Avenue) at I-40 EB-85 NB Ramps   | 6.114                      | 104.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 180          | *           |  |                       |  |  |
| 103                          | 07-1067           | NC 87 (Main Street) at I-40 WB-85 SB Ramps  | 6.176                      | 105.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 104                          | 07-1150           | US 70 (N. Church Street) at McKinney Street/Fairview Street                         | 6.042                      | 106.0  |                   | 1                                    | 1                | 6                    | 1                         |                         | 1 |         |                         |   | Changing from pole mount to base mount   |                            |   |               | 0            | 1           |  |                       |  |  |
| 105                          | 07-1215           | US 70 (S. Church Street) at International Road/Provident Financial Security         | 6.013                      | 107.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   | Fire preemption (push button), no existing extender, new service wires to extend   |                            |   |               | 0            | 1           |  |                       |  |  |
| 106                          | 07-1230           | NC 62 (Alamance Road) at SR 1430 (Ramada Road)/Kirkwood Drive                       | 6.090                      | 108.0  |                   | 1                                    | 1                | 9                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 107                          | 07-1231           | NC 62 (Alamance Road) at I-40 WB-85 SB Ramps  | 6.089                      | 109.0  |                   | 1                                    | 1                | 6                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 108                          | 07-1232           | NC 87 (S. Main Street) at SR 2420/SR 2184 (Crescent Square Drive)                   | 6.175                      | 110.0  |                   | 1                                    | 1                | 6                    | 1                         |                         |   |         |                         |   | existing adapter short   |                            |   |               | 0            |             | 1                                      |                       |  |  |
| 109                          | 07-1251           | US 70 (Burlington Road) at SR 2748 (Springwood Church Road)                         | 6.001                      | 111.0  |                   | 1                                    | 1                | 8                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 110                          | 07-1257           | SR 1363 (S. Mebane Street) at E. Kitchin Street                                     | 6.083                      | 112.0  |                   | 1                                    | 1                | 7                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 111                          | 07-1258           | US 70 (S. Church Street) at Wade Coble Drive [Future]                               | 6.005                      | 113.0  |                   |                                      |                  |                      |                           |                         |   |         |                         |   |  |                            |   |               |              |             |  |                       |  |  |
| 112                          | 07-1294           | SR 1323 (W. Front Street) at Briarcliff Road  | 6.145                      | 114.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | 1           |  |                       |  |  |
| 113                          | 07-1310           | NC 87 (S. Main Street) at SR 2183 (Ivey Road)                                       | 6.174                      | 115.0  |                   | 1                                    | 1                | 6                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 114                          | 07-1364           | NC 54 (E. Harden Street) at E. Pine Street  | 6.104                      | 116.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | *           |  |                       |  |  |
| 115                          | 07-1380           | US 70-NC 62 (S. Church Street) at W. Kitchin Street/Country Club Drive              | 6.021                      | 117.0  |                   | 1                                    | 1                | 4                    | 1                         |                         |   |         |                         |   | new service wires for new extender   |                            |   |               | 0            | 1           |  |                       |  |  |
| 116                          | 07-1386           | SR 1700 (Apple Street) at SR 1715 (Sharpe Road/N. Beaumont Avenue)                  | 6.165                      | 118.0  |                   | 1                                    | 1                | 5                    | 1                         |                         |   |         |                         |   |  |                            |   |               |              | 1           |  |                       |  |  |
| 117                          | 07-1422           | SR 1308 (Garden Road) at Huffman Mill Plaza/Chick-Fil-A                             | 6.062                      | 119.0  |                   | 1                                    | 1                | 9                    | 1                         |                         |   |         |                         |   | new service wires for new extender   |                            |   |               | 0            | 1           |  |                       |  |  |
| 118                          | 07-1423           | NC 49 (Maple Avenue) at Burger King Exit/Burlington Market Center                   | 6.115                      | 120.0  |                   | 1                                    | 1                | 6                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | 1           |  |                       |  |  |
| 119                          | 07-1442           | US 70 (Haw River Bypass) at SR 1725 (Stone Quarry Road) at SR 1801 (W. Main Street) | 6.043                      | 121.0  |                   | 1                                    | 1                | 5                    | 1                         |                         | 1 |         |                         |   | Changing from pole mount to base mount   |                            | 1   |               | 270          | 1           |  |                       |  |  |
| 120                          | 07-1463           | NC 49 (Maple Avenue) at SR 1148 (Anthony Road)                                      | 6.114                      | 122.0  |                   | 1                                    | 1                | 3                    | 1                         |                         |   |         |                         |   |  |                            |   |               | 0            | 1           |  |                       |  |  |

\*Reuse Existing

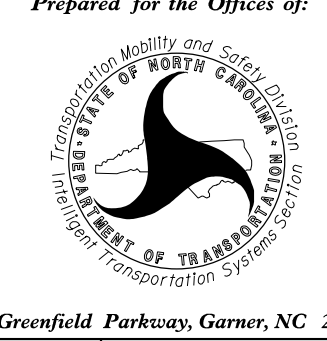
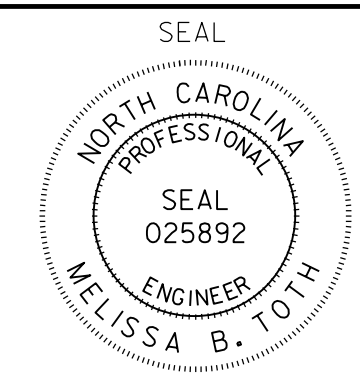
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**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBES #F-0326

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|---|--|---|---|
|  | Burlington-Graham Signal System<br>Summary of Work by<br>Intersection (Sheet 1 of 3) |   |  |
|   | Division 7 Alamance County<br>PLAN DATE: May 2018<br>PREPARED BY: PL Alexander       | Burlington & Graham<br>REVIEWED BY: MB Toth<br>REVIEWED BY: |   |

Designed by: Melissa B. Toth 6/26/2018  
DATE  
CADD Filename: Sig 2.12.dgn

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            | Conduit and Riser Work   |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   | Power Service   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
|------------------------------|-------------------|---|----------------------------|--|--|--|---|---|----------------------------------|--|-----------------------------|---|---|----------------------------------|---|---|------------------------------------|--|---|---|--|--|---|---|---|---|--|--|--|--|--------------------------------|---|---|---|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | Drill / Core Drill for 2" for FO or CAT6 | Intercept and use 2" Spare for Signal Cable or Lead-in | Reuse Ex. 1" (pole) or 2" (base) HST Dedicated Riser for Comm (Heat Shrink Kit) | Reuse Ex. 2" (or 3") Dedicated Conduit Entrance for UG Comm | Use 2" Spare Conduit for UG Comm | Use 2" Spare Riser for Comm (Heat Shrink Tubing Kit) | New 2" Riser (HST) for Comm | New 1-1/4" Riser (HST) for Comm to pole mtd cabinet | New 1" Short Riser for Sig-Replace short riser to cabinet | New UG Conduit for Comm Entrance | New Cabinet Entrance in New Foundation for Comm | New 1/2" Risers (WH) for Sig- Pedestrian Push Buttons | New 1" Risers (WH) for CCTV - CAT6 | New 1" Risers (WH) for Sig- New Electrical Service | New 2" Risers (WH) for Sig- New Foundation Location | New 2" Risers (attach to splice box) for Sig- New Foundation Location | New 2" Risers (WH) for System Detector | New 2" Risers (WH) for New Detection Loops | New 2" Risers (WH) for Sig (replace existing) | New UG conduit to new foundation location for Sig | New 2" short Risers for Sig (from terminal splice box or from UG) | Modify Existing Power Service - Install New Service Wires in Existing Conduit | Modify Existing Power Service - Install New Service Wires in New Conduit | Install Service Disconnect by Signal Cabinet | Install 50 Amp Breaker for Signal (Replace Existing) | Install 5/8" x 10' Grounding Electrode | Install New Electrical Service |   |   |   |  |
| 97                           | 07-1052           | NC 54 (E. Harden Street) at I-40 EB-85 NB Ramps                                     | 6.106                      | 99.0   |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   | 1 |  |
| 98                           | 07-1053           | NC 49-54 (W. Harden Street) at La Vista Drive                                       | 6.097                      | 100.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
| 99                           | 07-1056           | NC 49 (E. Elm Street) at SR 1943 (Trollinger Road)                                  | 6.196                      | 101.0  |  |  |   |   | 1                                |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
| 100                          | 07-1062           | US 70 (S. Church Street) at Gurney Street   | 6.016                      | 102.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
| 101                          | 07-1064           | NC 49-54 (W. Harden Street) at W. Pine Street                                       | 6.099                      | 103.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
| 102                          | 07-1066           | NC 49 (Maple Avenue) at I-40 EB-85 NB Ramps   | 6.114                      | 104.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   | 1 |   |  |
| 103                          | 07-1067           | NC 87 (Main Street) at I-40 WB-85 SB Ramps  | 6.176                      | 105.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   | 1 |   |  |
| 104                          | 07-1150           | US 70 (N. Church Street) at McKinney Street/Fairview Street                         | 6.042                      | 106.0  |  |  |   |   |                                  | 1  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   | 2   |   |  | 1  |  |  |                                |   | 1 |   |  |
| 105                          | 07-1215           | US 70 (S. Church Street) at International Road/Provident Financial Security         | 6.013                      | 107.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   | 1  |  |  |  |                                | 1 | 3 |   |  |
| 106                          | 07-1230           | NC 62 (Alamance Road) at SR 1430 (Ramada Road)/Kirkwood Drive                       | 6.090                      | 108.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   | 1 |   |  |
| 107                          | 07-1231           | NC 62 (Alamance Road) at I-40 WB-85 SB Ramps  | 6.089                      | 109.0  |  |  |   |   |                                  |  |                             |   |   | 1                                |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   | 1 | 3 |  |
| 108                          | 07-1232           | NC 87 (S. Main Street) at SR 2420/SR 2184 (Crescent Square Drive)                   | 6.175                      | 110.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   | 1 |  |
| 109                          | 07-1251           | US 70 (Burlington Road) at SR 2748 (Springwood Church Road)                         | 6.001                      | 111.0  |  |  |   |   | 1                                |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   | 1 |  |
| 110                          | 07-1257           | SR 1363 (S. Mebane Street) at E. Kitchin Street                                     | 6.083                      | 112.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   | 1 |  |
| 111                          | 07-1258           | US 70 (S. Church Street) at Wade Coble Drive [Future]                               | 6.005                      | 113.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
| 112                          | 07-1294           | SR 1323 (W. Front Street) at Briarcliff Road  | 6.145                      | 114.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
| 113                          | 07-1310           | NC 87 (S. Main Street) at SR 2183 (Ivey Road)                                       | 6.174                      | 115.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   | 1 |  |
| 114                          | 07-1364           | NC 54 (E. Harden Street) at E. Pine Street  | 6.104                      | 116.0  |  |  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   | 1 |  |
| 115                          | 07-1380           | US 70-NC 62 (S. Church Street) at W. Kitchin Street/Country Club Drive              | 6.021                      | 117.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |   |   | 1 |  |
| 116                          | 07-1386           | SR 1700 (Apple Street) at SR 1715 (Sharpe Road/N. Beaumont Avenue)                  | 6.165                      | 118.0  |  |  |   |   | 1                                |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   | 1   |   |   |  |  |  |  |                                |   |   |   |  |
| 117                          | 07-1422           | SR 1308 (Garden Road) at Huffman Mill Plaza/Chick-Fil-A                             | 6.062                      | 119.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |   |   | 1 |  |
| 118                          | 07-1423           | NC 49 (Maple Avenue) at Burger King Exit/Burlington Market Center                   | 6.115                      | 120.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |
| 119                          | 07-1442           | US 70 (Haw River Bypass) at SR 1725 (Stone Quarry Road) at SR 1801 (W. Main Street) | 6.043                      | 121.0  |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  | 1  |  |  |                                |   |   |   |  |
| 120                          | 07-1463           | NC 49 (Maple Avenue) at SR 1148 (Anthony Road)                                      | 6.114                      | 122.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |   |  |

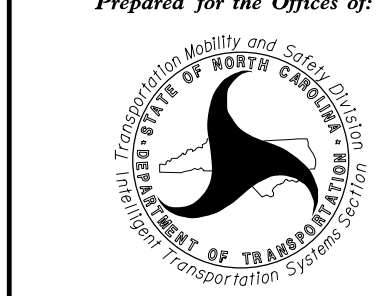
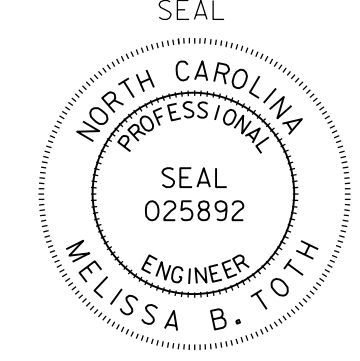
25-JUN-2018 11:21 \*\*\*S:\CH\ins.com\Projects\GIS\LA\Transportation\Traffic\Cur\*100056469 U-6015 B-G Sig-System\Task 05\_11\_Signal\Vol 111 Front Sheets\Sig 2.13.dgn ALEX3361 AT\_LUS240649

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**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888 NCBES #F-0326

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

|   |   |                      |   |  |
|---|---|----------------------|---|--|
|  | <b>Burlington-Graham Signal System</b><br>Summary of Work by<br>Intersection (Sheet 2 of 3) |                      |  |  |
|   | Division 7 Alamance County  | Burlington & Graham  |   |  |
|   | PLAN DATE: May 2018   | REVIEWED BY: MB Toth |   |  |
| PREPARED BY: PL Alexander   | REVIEWED BY:  |                      |   |  |
| SCALE: NTS  | REVISIONS   | INIT.                | DATE  |  |

Designed by: Melissa B. Toth 6/26/2018  
 CADD Filename: Sig 2.13.dgn

# SUMMARY OF WORK BY INTERSECTION

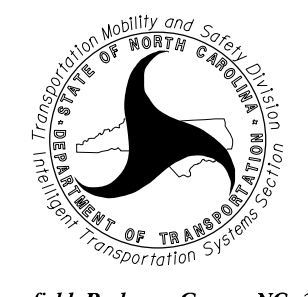

| Reference Information        |                   |   |                            |  | Signal Items                             |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
|------------------------------|-------------------|---|----------------------------|--|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|-----------------------|-----------------------------|--------------|-----------------------------------|---------|------------|----------------|-----------------|---|---|--|
| NCDOT / CITY SIGNAL INV. NO. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1, 2") | Underground Conduit (2, 2") | Directional Drill | Inductive Loop Sawcut | Loop Lead-in Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Sidewalk Guy Assembly | Type I Post with Foundation | Junction Box | Remove existing pedestrian signal | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24", 120 MILS | Thermoplastic Pavement Marking Lines (8", 120 MILS) | Thermoplastic White yield lines, 90 MILS |
| 97                           | 07-1052           | NC 54 (E. Harden Street) at I-40 EB-85 NB Ramps                                     | 6.106                      | 99.0   |  | 1                             | 1                             |                               | 330          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 98                           | 07-1053           | NC 49-54 (W. Harden Street) at La Vista Drive                                       | 6.097                      | 100.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 99                           | 07-1056           | NC 49 (E. Elm Street) at SR 1943 (Trollinger Road)                                  | 6.196                      | 101.0  |  | 1                             |                               | 1                             | 530          |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 4                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 100                          | 07-1062           | US 70 (S. Church Street) at Gurney Street   | 6.016                      | 102.0  |  | 1                             | 1                             |                               | 310          |                        |                        | 20                          |                             |                   | 165                   | 20                 |      |           |                   |                            |                       | 1                           |              |                                   |         |            |                |                 |   |   |  |
| 101                          | 07-1064           | NC 49-54 (W. Harden Street) at W. Pine Street                                       | 6.099                      | 103.0  |  | 2                             |                               |                               | 170          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 102                          | 07-1066           | NC 49 (Maple Avenue) at I-40 EB-85 NB Ramps   | 6.114                      | 104.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 103                          | 07-1067           | NC 87 (Main Street) at I-40 WB-85 SB Ramps  | 6.176                      | 105.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 104                          | 07-1150           | US 70 (N. Church Street) at McKinney Street/Fairview Street                         | 6.042                      | 106.0  |  | 7                             | 1                             |                               | 900          |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 4                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 105                          | 07-1215           | US 70 (S. Church Street) at International Road/Provident Financial Security         | 6.013                      | 107.0  |  | 2                             | 1                             |                               | 530          | 2                      |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 106                          | 07-1230           | NC 62 (Alamance Road) at SR 1430 (Ramada Road)/Kirkwood Drive                       | 6.090                      | 108.0  |  | 7                             | 2                             | 1                             | 1230         |                        | 260                    |                             |                             |                   |                       | 590                |      | 1         |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 107                          | 07-1231           | NC 62 (Alamance Road) at I-40 WB-85 SB Ramps  | 6.089                      | 109.0  |  |                               | 1                             |                               | 270          | 2                      |                        |                             |                             |                   |                       |                    | 2    |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 108                          | 07-1232           | NC 87 (S. Main Street) at SR 2420/SR 2184 (Crescent Square Drive)                   | 6.175                      | 110.0  |  | 4                             | 2                             |                               | 550          |                        |                        | 310                         |                             |                   | 140                   | 2820               |      |           |                   |                            |                       | 4                           |              |                                   |         |            |                |                 |   |   |  |
| 109                          | 07-1251           | US 70 (Burlington Road) at SR 2748 (Springwood Church Road)                         | 6.001                      | 111.0  |  | 1                             | 2                             |                               | 300          |                        |                        | 30                          | 10                          |                   | 40                    | 200                |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 110                          | 07-1257           | SR 1363 (S. Mebane Street) at E. Kitchin Street                                     | 6.083                      | 112.0  |  | 3                             | 1                             |                               | 710          | 2                      |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 111                          | 07-1258           | US 70 (S. Church Street) at Wade Coble Drive [Future]                               | 6.005                      | 113.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 112                          | 07-1294           | SR 1323 (W. Front Street) at Briarcliff Road  | 6.145                      | 114.0  |  |                               |                               |                               | 320          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 113                          | 07-1310           | NC 87 (S. Main Street) at SR 2183 (Ivey Road)                                       | 6.174                      | 115.0  |  | 1                             | 2                             |                               | 280          |                        |                        |                             |                             |                   | 160                   | 40                 |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 114                          | 07-1364           | NC 54 (E. Harden Street) at E. Pine Street  | 6.104                      | 116.0  |  |                               | 1                             | 1                             | 360          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 115                          | 07-1380           | US 70-NC 62 (S. Church Street) at W. Kitchin Street/Country Club Drive              | 6.021                      | 117.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 116                          | 07-1386           | SR 1700 (Apple Street) at SR 1715 (Sharpe Road/N. Beaumont Avenue)                  | 6.165                      | 118.0  |  |                               |                               |                               |              |                        |                        | 40                          |                             |                   | 30                    | 150                |      |           |                   |                            |                       | 2                           |              |                                   |         |            |                |                 |   |   |  |
| 117                          | 07-1422           | SR 1308 (Garden Road) at Huffman Mill Plaza/Chick-Fil-A                             | 6.062                      | 119.0  |  | 3                             | 2                             |                               | 480          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 118                          | 07-1423           | NC 49 (Maple Avenue) at Burger King Exit/Burlington Market Center                   | 6.115                      | 120.0  |  | 1                             | 3                             |                               | 360          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 119                          | 07-1442           | US 70 (Haw River Bypass) at SR 1725 (Stone Quarry Road) at SR 1801 (W. Main Street) | 6.043                      | 121.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 120                          | 07-1463           | NC 49 (Maple Avenue) at SR 1148 (Anthony Road)                                      | 6.114                      | 122.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |

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**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
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|---|--|---|---|
|  | Burlington-Graham Signal System<br>Summary of Work by<br>Intersection (Sheet 3 of 3) |   |  |
|   | Division 7 Alamance County<br>PLAN DATE: May 2018<br>PREPARED BY: PL Alexander       | Burlington & Graham<br>REVIEWED BY: MB Toth<br>REVIEWED BY: |   |
| SCALE<br><b>NTS</b>   | REVISIONS<br>INIT. DATE  | DESIGNED BY<br>6/26/2018                                    | DATE<br>CADD Filename: Sig 2.14.dgn   |

# SUMMARY OF WORK BY INTERSECTION

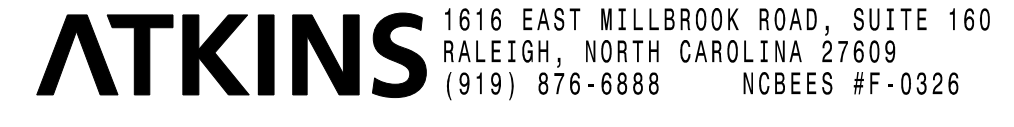
| Reference Information        |  |                            |                            |  | Controller, Cabinet & Foundation Work |          |                  |          |                           |      |                         |     |                      |                           |  |         |                         |   |                   |                            |   |               |              |             |  |                       |
|------------------------------|--|----------------------------|----------------------------|--|---------------------------------------|----------|------------------|----------|---------------------------|------|-------------------------|-----|----------------------|---------------------------|--|---------|-------------------------|---|-------------------|----------------------------|---|---------------|--------------|-------------|--|-----------------------|
| NCDOT / City Signal Inv. No. | Intersection Name  | Cable Routing Sheet Number | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller                     |          | Type 170 Cabinet |          | No. of New Detector Cards | Base |                         |     | Adjacent to Existing | In Same Place as Existing | Relocated to (quadrant)                    | Comment | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |
|                              |  |                            |                            |  | New                                   | Existing | New              | Existing |                           | 332  | 332 with Auxiliary File | 336 |                      |                           |  |         |                         |   |                   |                            |   |               |              |             |  |                       |
| 121                          | 07-1487 SR 2424 (S. Maple Street)/SR 2433 (Moore Street) at SR 2389 (Auto Park Drive/Service Road) | 6.166                      | 123.0                      |  | 1                                     | 1        | 5                | 1        |                           |      |                         |     |                      |                           | Add tech pad to rear side                  |         | 1                       |   |                   | 0                          | *   |               |              |             |  |                       |
| 122                          | 07-1521 NC 54 (E. Harden Street) at SR 2105 (Woody Drive)  | 6.107                      | 124.0                      |  | 1                                     | 1        | 7                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 123                          | 07-1541 SR 1158 (Huffman Mill Road) at SR 1167 (Longpine Road)/SR 1216 (Whitesell Drive)           | 6.063                      | 125.0                      |  | 1                                     | 1        | 5                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 124                          | 07-1570 NC 62 (Rauhut Street) at Hatch Street  | 6.157                      | 126.0                      |  | 1                                     | 1        | 4                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 125                          | 07-1583 US 70 (S. Church Street) at Forestdale Drive   | 6.011                      | 127.0                      |  | 1                                     | 1        | 9                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 126                          | 07-1612 US 70 (S. Church Street) at Coachlight Trail/Fieldstone Drive                              | 6.010                      | 128.0                      |  | 1                                     | 1        | 7                | 1        |                           |      |                         |     |                      |                           | existing base adapter                      |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 127                          | 07-1616 SR 1301 (St. Marks Church Road) at SR 1308 (Garden Road)                                   | 6.069                      | 129.0                      |  | 1                                     | 1        | 6                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 128                          | 07-1634 SR 1529 (Durham Street Ext.) at SR 1515 (Flora Avenue)                                     | 6.156                      | 130.0                      |  | 1                                     | 1        | 4                |          |                           |      |                         |     |                      |                           | new 35' signal pole for cabinet pole       |         |                         |   | 90                |                            |   | 1             | 36           |             |  |                       |
| 129                          | 07-1650 SR 1928 (Jimmie Kerr Road) at I-40 WB-85 SB Ramps  | 6.197                      | 131.0                      |  | 1                                     | 1        | 4                | 1        |                           |      |                         |     |                      |                           | Install Microwave Detection in New Cabinet |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 130                          | 07-1651 SR 1928 (Jimmie Kerr Road) at I-40 EB-85 NB Ramps  | 6.197                      | 132.0                      |  | 1                                     | 1        | 4                | 1        |                           |      |                         |     |                      |                           | Install Microwave Detection in New Cabinet |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 131                          | 07-1653 US 70 (S. Church Street) at Delaney Drive/Wendy's Driveway                                 | 6.015                      | 133.0                      |  | 1                                     | 1        | 6                | 1        |                           |      | 1                       |     |                      |                           | existing foundation cracked                |         |                         | 1                                       | 315               | 1                          |   |               |              |             |  |                       |
| 132                          | 07-1679 SR 1158 (Huffman Mill Road) at Ann Elizabeth Drive/Restaurant Driveway                     | 6.067                      | 134.0                      |  | 1                                     | 1        | 7                | 1        |                           |      |                         |     |                      |                           | existing adapter                           |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 133                          | 07-1716 SR 1311 (University Drive/Cook Road) at SR 1309 (Westbrook Avenue)                         | 6.046                      | 135.0                      |  | 1                                     | 1        | 9                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 134                          | 07-1718 Edgewood Avenue at SR 1452 (Rockwood Avenue/O'Neal Street)                                 | 6.15                       | 136.0                      |  | 1                                     | 1        | 7                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   | 0                 | 1                          |   |               |              |             |  |                       |
| 135                          | 07-1719 NC 54 (E. Harden Street) at SR 2135 (N. Jim Minor Road)                                    | 6.113                      | 137.0                      |  | 1                                     | 1        | 5                | 1        |                           |      |                         |     |                      |                           | Disconnect contains two 50amp breakers     |         |                         |   | 0                 | 1                          |   |               |              |             |  |                       |
| 136                          | 07-1731 SR 1306 (S. Mebane Street) at Delaney Drive  | 6.074                      | 138.0                      |  | 1                                     | 1        | 8                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 137                          | 07-1771 NC 54 (E. Harden Street) at SR 1945 (Riverbend Road)/Johnson Avenue                        | 6.105                      | 139.0                      |  | 1                                     | 1        | 4                | 1        |                           |      |                         |     |                      |                           | existing base adapter too short            |         |                         |   | 0                 |                            | 1   |               |              |             |  |                       |
| 138                          | 07-1804 SR 2433 (Moore Street) at SR 2309 (Rogers Road)  | 6.171                      | 140.0                      |  | 1                                     | 1        | 9                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   | 0                 | 1                          |   |               |              |             |  |                       |
| 139                          | 07-1805 SR 2034 (Hanford Road) at SR 2433 (Moore Street)   | 6.169                      | 141.0                      |  | 1                                     | 1        | 6                | 1        |                           |      |                         |     |                      |                           |  |         | 1                       |   | 90                | 1                          |   |               |              |             |  |                       |
| 140                          | 07-1806 NC 87 (S. Main Street) at SR 2433 (Moore Street)   | 6.172                      | 142.0                      |  | 1                                     | 1        | 8                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   | 180               | 1                          |   |               |              |             |  |                       |
| 141                          | 07-1852 SR 1363 (S. Mebane Street) at Trail Two  | 6.078                      | 143.0                      |  | 1                                     | 1        | 7                | 1        |                           |      |                         |     |                      |                           |  |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 142                          | 07-1886 SR 1363 (S. Mebane Street) at E. Sixth Street  | 6.084                      | 144.0                      |  | 1                                     | 1        | 4                |          |                           |      |                         |     |                      |                           |  |         |                         |   | 0                 |                            |   | 1             | 25           |             |  |                       |
| 143                          | 07-1938 NC 54 (E. Harden Street) at SR 2123 (Cherry Lane)  | 6.112                      | 145.0                      |  | 1                                     | 1        | 5                | 1        |                           |      |                         |     |                      |                           | Disconnect contains two 50amp breakers     |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 144                          | 07-1939 NC 54 (E. Harden Street) at SR 2108 (Sunset Drive)/SR 2183 (Ivey Road)                     | 6.108                      | 146.0                      |  | 1                                     | 1        | 7                | 1        |                           |      |                         |     |                      |                           | Disconnect contains two 50amp breakers     |         |                         |   | 0                 | *                          |   |               |              |             |  |                       |

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|  | <b>Burlington-Graham Signal System</b><br>Summary of Work by Intersection (Sheet 1 of 3) |   |  |
|  | Division 7 Alamance County<br>PLAN DATE: May 2018<br>PREPARED BY: PL Alexander           | Burlington & Graham<br>REVIEWED BY: MB Toth<br>REVIEWED BY: |  |
| 750 Greenfield Parkway, Garner, NC 27529 |  |   | Designated by: Melissa B. Toth<br>DATE: 6/26/2018<br>CADD Filename: Sig 2.15.dgn |



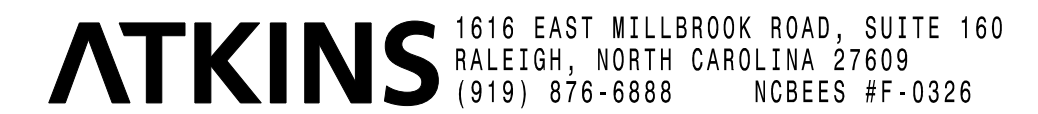
# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |  |                            |  | Signal Items                             |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
|------------------------------|-------------------|--|----------------------------|--|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|-----------------------|-----------------------------|--------------|-----------------------------------|---------|------------|----------------|-----------------|--|---|--|
| NCDOT / CITY SIGNAL INV. NO. | Intersection Name | Cable Layout Sheet Number  | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1, 2') | Underground Conduit (2, 2') | Directional Drill | Inductive Loop Sawcut | Loop Lead-in Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Sidewalk Guy Assembly | Type I Post with Foundation | Junction Box | Remove existing pedestrian signal | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24" - 120 MILS | Thermoplastic Pavement Marking Lines (8", 120 MILS) | Thermoplastic White yield lines, 90 MILS |
| 121                          | 07-1487           | SR 2424 (S. Maple Street)/SR 2433 (Moore Street) at SR 2389 (Auto Park Drive/Service Road) | 6.166                      | 123.0  |  | 1                             | 1                             |                               | 250          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 122                          | 07-1521           | NC 54 (E. Harden Street) at SR 2105 (Woody Drive)  | 6.107                      | 124.0  |  | 2                             | 2                             |                               | 340          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 123                          | 07-1541           | SR 1158 (Huffman Mill Road) at SR 1167 (Longpine Road)/SR 1216 (Whitesell Drive)           | 6.063                      | 125.0  |  | 2                             | 1                             |                               | 350          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 124                          | 07-1570           | NC 62 (Rauhut Street) at Hatch Street  | 6.157                      | 126.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 125                          | 07-1583           | US 70 (S. Church Street) at Forestdale Drive   | 6.011                      | 127.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 126                          | 07-1612           | US 70 (S. Church Street) at Coachlight Trail/Fieldstone Drive                              | 6.010                      | 128.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 127                          | 07-1616           | SR 1301 (St. Marks Church Road) at SR 1308 (Garden Road)                                   | 6.069                      | 129.0  |  | 2                             | 1                             |                               | 480          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 128                          | 07-1634           | SR 1529 (Durham Street Ext.) at SR 1515 (Flora Avenue)                                     | 6.156                      | 130.0  |  | 4                             |                               |                               | 150          | 150                    |                        |                             |                             |                   |                       | 340                | 1    |           | 2                 |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 129                          | 07-1650           | SR 1928 (Jimmie Kerr Road) at I-40 WB-85 SB Ramps  | 6.197                      | 131.0  |  |                               |                               |                               |              |                        | 50                     |                             |                             |                   | 80                    | 1530               |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |  |   |  |
| 130                          | 07-1651           | SR 1928 (Jimmie Kerr Road) at I-40 EB-85 NB Ramps  | 6.197                      | 132.0  |  |                               |                               |                               |              |                        | 90                     |                             |                             |                   | 40                    | 300                |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |  |   |  |
| 131                          | 07-1653           | US 70 (S. Church Street) at Delaney Drive/Wendy's Driveway                                 | 6.015                      | 133.0  |  | 2                             | 2                             |                               | 480          |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 1                          |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 132                          | 07-1679           | SR 1158 (Huffman Mill Road) at Ann Elizabeth Drive/Restaurant Driveway                     | 6.067                      | 134.0  |  | 2                             | 1                             |                               | 420          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 133                          | 07-1716           | SR 1311 (University Drive/Cook Road) at SR 1309 (Westbrook Avenue)                         | 6.046                      | 135.0  |  |                               |                               |                               |              |                        |                        | 110                         |                             |                   | 80                    | 520                |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |  |   |  |
| 134                          | 07-1718           | Edgewood Avenue at SR 1452 (Rockwood Avenue/O'Neal Street)                                 | 6.15                       | 136.0  |  |                               | 2                             |                               | 350          | 2                      |                        |                             |                             |                   | 220                   | 440                |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 135                          | 07-1719           | NC 54 (E. Harden Street) at SR 2135 (N. Jim Minor Road)                                    | 6.113                      | 137.0  |  | 1                             | 1                             |                               | 150          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 136                          | 07-1731           | SR 1306 (S. Mebane Street) at Delaney Drive  | 6.074                      | 138.0  |  | 2                             | 2                             |                               | 720          |                        |                        |                             |                             |                   | 160                   | 630                |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 137                          | 07-1771           | NC 54 (E. Harden Street) at SR 1945 (Riverbend Road)/Johnson Avenue                        | 6.105                      | 139.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 138                          | 07-1804           | SR 2433 (Moore Street) at SR 2309 (Rogers Road)  | 6.171                      | 140.0  |  | 4                             | 2                             |                               | 640          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 139                          | 07-1805           | SR 2034 (Hanford Road) at SR 2433 (Moore Street)   | 6.169                      | 141.0  |  | 4                             | 2                             |                               | 680          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 140                          | 07-1806           | NC 87 (S. Main Street) at SR 2433 (Moore Street)   | 6.172                      | 142.0  |  | 3                             | 3                             |                               | 600          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 141                          | 07-1852           | SR 1363 (S. Mebane Street) at Trail Two  | 6.078                      | 143.0  |  |                               |                               |                               |              |                        | 90                     |                             |                             |                   | 70                    | 800                |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |  |   |  |
| 142                          | 07-1886           | SR 1363 (S. Mebane Street) at E. Sixth Street  | 6.084                      | 144.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 143                          | 07-1938           | NC 54 (E. Harden Street) at SR 2123 (Cherry Lane)  | 6.112                      | 145.0  |  | 1                             | 1                             |                               | 140          |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |
| 144                          | 07-1939           | NC 54 (E. Harden Street) at SR 2108 (Sunset Drive)/SR 2183 (Ivey Road)                     | 6.108                      | 146.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |  |   |  |

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- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.



**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

|                              |  |                           |      |
|------------------------------|--|---------------------------|------|
|                              | Burlington-Graham Signal System<br>Summary of Work by<br>Intersection (Sheet 3 of 3) |                           |      |
|                              | Division 7 Alamance County   | Burlington & Graham       |      |
| PLAN DATE: May 2018          | REVIEWED BY: MB Toth   | PREPARED BY: PL Alexander |      |
| SCALE: NTS                   | REVISIONS  | INIT.                     | DATE |
| Designed by: Melissa B. Toth |  | 6/26/2018                 |      |
| CADD Filename: Sig 2.17.dgn  |  | DATE                      |      |

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |   |                            |                            |  |                   | Controller, Cabinet & Foundation Work |                  |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |
|------------------------------|---|----------------------------|----------------------------|--|-------------------|---------------------------------------|------------------|----------|---------------------------|------|-------------------------|-----|------------------------|---------------------------|--|---------|--|-------------------------|---|-------------------|----------------------------|---|---------------|--------------|-------------|--|-----------------------|
| NCDOT / City Signal Inv. No. | Intersection Name   | Cable Routing Sheet Number | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller |                                       | Type 170 Cabinet |          | No. of New Detector Cards | Base |                         |     | Install New Foundation |                           |  |         |  | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |
|                              |   |                            |                            |  | New               | Existing                              | New              | Existing |                           | 332  | 332 with Auxiliary File | 336 | Adjacent to Existing   | In Same Place as Existing | Relocated to (quadrant)  | Comment |  |                         |   |                   |                            |   |               |              |             |  |                       |
| 145                          | 07-1990 NC 62 (Alamance Road) at SR 1213 (Grand Oaks Boulevard)                                     | 6.087                      | 147.0                      |  | 1                 |                                       | 1                |          | 6                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 146                          | 07-1991 SR 1213 (Grand Oaks Boulevard) at SR 1146 (Kirkpatrick Road)                                | 6.056                      | 148.0                      |  | 1                 |                                       | 1                |          | 11                        | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 147                          | 07-1992 SR 1226 (University Drive)/SR 1213 (Grand Oaks Boulevard) at SR 1149/SR 1158 (Huffman Mill  | 6.054                      | 149.0                      |  | 1                 |                                       | 1                |          | 12                        | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 148                          | 07-1993 SR 1226 (University Drive) at I-40 EB-85 NB Ramps   | 6.051                      | 150.0                      |  | 1                 |                                       | 1                |          | 5                         | 1    |                         |     |                        |                           | reroute lead-in for system detectors from conduit with FO to a spare conduit entrance into cabinet           |         |  |                         |   |                   | 180                        | *   |               |              |             |  |                       |
| 149                          | 07-1994 SR 1226 (University Drive) at I-40 WB-85 SB Ramps   | 6.051                      | 151.0                      |  | 1                 |                                       | 1                |          | 5                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 150                          | 07-1995 SR 1226 (University Drive) at SR 1301 (Boone Station Drive)/University Commons Shopping Cen | 6.050                      | 152.0                      |  | 1                 |                                       | 1                |          | 14                        | 1    |                         |     |                        |                           | FO shares conduit with SIG, no room in other conduit entrances to reroute. Remove ground rod from cabinet    |         |  |                         |   |                   | 0                          | *   |               |              |             |  |                       |
| 151                          | 07-1996 US 70 (S. Church Street) at SR 1311 (University Drive)                                      | 6.005                      | 153.0                      |  | 1                 |                                       | 1                |          | 12                        | 1    |                         |     |                        | 1 SE                      | Move cabinet per CoB request. Existing FO comes from UG, new FO will be from new RSR; recabling intersection |         |  |                         |   |                   | 0                          | 1   |               |              |             |  |                       |
| 152                          | 07-2063 SR 2424 (S. Maple Street) at W. Pine Street   | 6.179                      | 154.0                      |  | 1                 |                                       | 1                |          | 0                         |      |                         |     |                        |                           | Run signal cable all the way to cabinet, keep the existing terminal splice box only if needed for lead-in.   |         |  |                         |   | 180               |                            |   | 1             | 24           |             |  |                       |
| 153                          | 07-2064 SR 2424 (Maple Street) at W. Elm Street   | 6.179                      | 155.0                      | Y  | 1                 |                                       | 1                |          | 0                         |      |                         |     |                        |                           |  |         |  |                         |   |                   | 180                        |   |               | 1            | 24          |  |                       |
| 154                          | 07-2070 SR 1226 (University Drive) at SR 1300 (Rural Retreat Road)                                  | 6.049                      | 156.0                      |  | 1                 |                                       | 1                |          | 8                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 155                          | 07-2073 SR 1716 (S. Graham-Hopedale Road) at Piedmont Way   | 6.187                      | 157.0                      |  | 1                 |                                       | 1                |          | 6                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 156                          | 07-2094 SR 1308 (Garden Road) at Boone Station Drive  | 6.060                      | 158.0                      |  | 1                 |                                       | 1                |          | 10                        | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 157                          | 07-2095 SR 1301 (Boone Station Drive) at SR 1301 (St. Marks Church Road)/Java Lane                  | 6.057                      | 159.0                      |  | 1                 |                                       | 1                |          | 10                        | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 158                          | 07-2096 US 70 (S. Church Street) at Tribek Drive  | 6.015                      | 160.0                      |  | 1                 |                                       | 1                |          | 8                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 159                          | 07-2115 SR 1311 (University Drive) at The Shoppes at Waterford                                      | 6.047                      | 161.0                      |  | 1                 |                                       | 1                |          | 5                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 160                          | 07-2117 SR 1226 (University Drive) at SR 1165 (Bonnar Bridge Parkway)/SR 1230 (St. Marks Church Roa | 6.052                      | 162.0                      |  | 1                 |                                       | 1                |          | 8                         | 1    |                         |     |                        |                           | EVP GPS preemption   |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 161                          | 07-2128 SR 1306 (S. Mebane Street) at 85 Plaza/Saintsbury Drive                                     | 6.077                      | 163.0                      |  | 1                 |                                       | 1                |          | 8                         | 1    |                         |     |                        |                           | follow route through metal pole into existing conduit entrance   |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 162                          | 07-2203 SR 1301 (St. Marks Church Road) at SR 1300 (Rural Retreat Road)                             | 6.070                      | 164.0                      |  | 1                 |                                       | 1                |          | 5                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | *             |              |             |  |                       |
| 163                          | 07-2204 US 70 WB (N. Fisher Street) at Fulton Street  | 6.030                      | 165.0                      |  | 1                 |                                       | 1                |          | 5                         | 1    |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   | 1             |              |             |  |                       |
| 164                          | FUTURE SR 1158 (Huffman Mill Road) at Alamance Regional Medical Center Entrance                     | 6.063                      | 166.0                      |  |                   |                                       |                  |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |
| 165                          | FUTURE SR 1213 (Grand Oaks Boulevard) at Alamance Regional Medical Center Entrance                  | 6.055                      | 167.0                      |  |                   |                                       |                  |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |
| 166                          | FUTURE US 70 (S. Church Street/Burlington Road) at Ashley Woods Drive                               | 6.063                      | 168.0                      |  |                   |                                       |                  |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |
| 167                          | FUTURE NC 87-100 (W. Webb Avenue) at SR 1515 (Flora Avenue)   | 6.063                      | 169.0                      |  |                   |                                       |                  |          |                           |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            |   |               |              |             |  |                       |
| 168                          | B0001 W. Davis Street at Trollinger Street/Fountain Place   | 6.140                      | 170.0                      |  | 1                 |                                       | 1                |          | 4                         |      |                         |     |                        |                           |  |         |  |                         |   |                   |                            | 0   |               | 1            | 24          |  |                       |

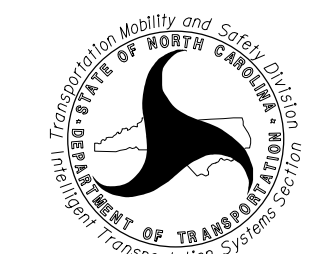
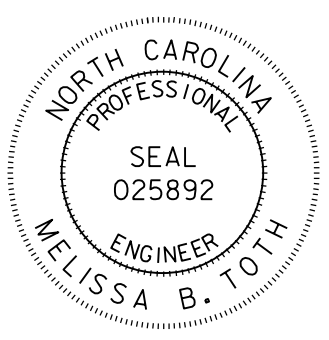
\*Reuse Existing

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Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.

**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBEEES #F-0326

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|    | <b>Burlington-Graham Signal System</b><br>Summary of Work by<br>Intersection (Sheet 1 of 3) |   |  |                     |       |      |  |  |  |  |   |
|---|---|---|---|---------------------|-------|------|--|--|--|--|---|
|   | Division 7 Alamance County<br>PLAN DATE: May 2018<br>PREPARED BY: PL Alexander              | Burlington & Graham<br>REVIEWED BY: MB Toth<br>REVIEWED BY: |   | SCALE<br><b>NTS</b> |       |      |  |  |  |  |   |
| Revisions Table: <table border="1"> <tr><th>NO.</th><th>REVISIONS</th><th>INIT.</th><th>DATE</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> |   |   | NO.   | REVISIONS           | INIT. | DATE |  |  |  |  | Designated by: <u>Melissa B. Toth</u> 6/26/2018<br>SEAL 025892<br>ENGINEER<br>CAD FILE NAME: Sig 2.18.dgn |
| NO.   | REVISIONS   | INIT.   | DATE  |                     |       |      |  |  |  |  |   |
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# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            | Conduit and Riser Work   |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  | Power Service                                       |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
|------------------------------|-------------------|---|----------------------------|--|--|--|---|---|----------------------------------|--|-----------------------------|---|---|----------------------------------|---|---|------------------------------------|--|---|---|--|--|---|---|---|---|--|--|--|--|--------------------------------|---|---|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | Drill / Core Drill for 2" for FO or CAT6 | Intercept and use 2" Spare for Signal Cable or Lead-in | Reuse Ex. 1" (pole) or 2" (base) HST Dedicated Riser for Comm (Heat Shrink Kit) | Reuse Ex. 2" (or 3") Dedicated Conduit Entrance for UG Comm | Use 2" Spare Conduit for UG Comm | Use 2" Spare Riser for Comm (Heat Shrink Tubing Kit) | New 2" Riser (HST) for Comm | New 1-1/4" Riser (HST) for Comm to pole mid cabinet | New 1" Short Riser for Sig-Replace short riser to cabinet | New UG Conduit for Comm Entrance | New Cabinet Entrance in New Foundation for Comm | New 1/2" Risers (WH) for Sig- Pedestrian Push Buttons | New 1" Risers (WH) for CCTV - CAT6 | New 1" Risers (WH) for Sig- New Electrical Service | New 2" Risers (WH) for Sig- New Foundation Location | New 2" Risers (attach to splice box) for Sig- New Foundation Location | New 2" Risers (WH) for System Detector | New 2" Risers (WH) for New Detection Loops | New 2" Risers (WH) for Sig (replace existing) | New UG conduit to new foundation location for Sig | New 2" short Risers for Sig (from terminal splice box or from UG) | Modify Existing Power Service - Install New Service Wires in Existing Conduit | Modify Existing Power Service - Install New Service Wires in New Conduit | Install Service Disconnect by Signal Cabinet | Install 50 Amp Breaker for Signal (Replace Existing) | Install 3/8" x 10' Grounding Electrode | Install New Electrical Service |   |   |  |
| 145                          | 07-1990           | NC 62 (Alamance Road) at SR 1213 (Grand Oaks Boulevard)                                     | 6.087                      | 147.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 146                          | 07-1991           | SR 1213 (Grand Oaks Boulevard) at SR 1146 (Kirkpatrick Road)                                | 6.056                      | 148.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 147                          | 07-1992           | SR 1226 (University Drive)/SR 1213 (Grand Oaks Boulevard) at SR 1149/SR 1158 (Huffman Mill) | 6.054                      | 149.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 148                          | 07-1993           | SR 1226 (University Drive) at I-40 EB-85 NB Ramps   | 6.051                      | 150.0  |  | 1  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 149                          | 07-1994           | SR 1226 (University Drive) at I-40 WB-85 SB Ramps   | 6.051                      | 151.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 150                          | 07-1995           | SR 1226 (University Drive) at SR 1301 (Boone Station Drive)/University Commons Shopping Cen | 6.050                      | 152.0  |  | 1  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              | 3 |   |  |
| 151                          | 07-1996           | US 70 (S. Church Street) at SR 1311 (University Drive)                                      | 6.005                      | 153.0  |  |  |   |   |                                  |  | 1                           |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |   |   |  |
| 152                          | 07-2063           | SR 2424 (S. Maple Street) at W. Pine Street   | 6.179                      | 154.0  |  |  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 153                          | 07-2064           | SR 2424 (Maple Street) at W. Elm Street   | 6.179                      | 155.0  | Y  |  |   |   |                                  |  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 154                          | 07-2070           | SR 1226 (University Drive) at SR 1300 (Rural Retreat Road)                                  | 6.049                      | 156.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 155                          | 07-2073           | SR 1716 (S. Graham-Hopedale Road) at Piedmont Way   | 6.187                      | 157.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |   |   |  |
| 156                          | 07-2094           | SR 1308 (Garden Road) at Boone Station Drive  | 6.060                      | 158.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 157                          | 07-2095           | SR 1301 (Boone Station Drive) at SR 1301 (St. Marks Church Road)/Java Lane                  | 6.057                      | 159.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 158                          | 07-2096           | US 70 (S. Church Street) at Tribek Drive  | 6.015                      | 160.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 159                          | 07-2115           | SR 1311 (University Drive) at The Shoppes at Waterford                                      | 6.047                      | 161.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |   |   |  |
| 160                          | 07-2117           | SR 1226 (University Drive) at SR 1165 (Bonnar Bridge Parkway)/SR 1230 (St. Marks Church Roa | 6.052                      | 162.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 161                          | 07-2128           | SR 1306 (S. Mebane Street) at 85 Plaza/Saintsbury Drive                                     | 6.077                      | 163.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                | 1 |   |  |
| 162                          | 07-2203           | SR 1301 (St. Marks Church Road) at SR 1300 (Rural Retreat Road)                             | 6.070                      | 164.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                | 1 |   |  |
| 163                          | 07-2204           | US 70 WB (N. Fisher Street) at Fulton Street  | 6.030                      | 165.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                | 1 |   |  |
| 164                          | FUTURE            | SR 1158 (Huffman Mill Road) at Alamance Regional Medical Center Entrance                    | 6.063                      | 166.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 165                          | FUTURE            | SR 1213 (Grand Oaks Boulevard) at Alamance Regional Medical Center Entrance                 | 6.055                      | 167.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 166                          | FUTURE            | US 70 (S. Church Street/Burlington Road) at Ashley Woods Drive                              | 6.063                      | 168.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 167                          | FUTURE            | NC 87-100 (W. Webb Avenue) at SR 1515 (Flora Avenue)  | 6.063                      | 169.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |   |  |
| 168                          | B0001             | W. Davis Street at Trollinger Street/Fountain Place   | 6.140                      | 170.0  |  |  | 1   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   | 1 |  |

25 JUN 2018 17:22 \*\*\*S:\CHL\ins.com\Projects\SR1226\Traffic\Task\_05\_11\_Signal\Vol 111\Front\_Sheets\Sig 2.19.dgn AT\_LUS3361

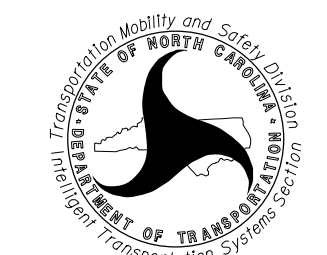
- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.
- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.



1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBES #F-0326

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



750 Greenfield Parkway, Garner, NC 27529

SCALE  
**NTS**

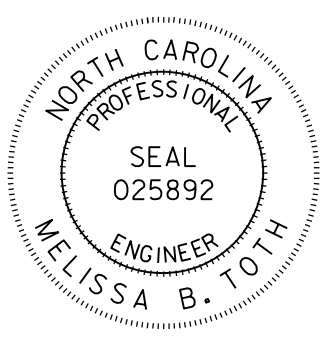
**Burlington-Graham Signal System**  
Summary of Work by  
Intersection (Sheet 2 of 3)

Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |
|           |       |      |
|           |       |      |



Designed by  
*Melissa B. Toth*  
DATE: 6/26/2018  
CADD Filename: Sig 2.19.dgn



# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  |   | Signal Items                             |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
|------------------------------|-------------------|---|----------------------------|--|---|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|----------------------------|----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|-----------------------|-----------------------------|--------------|-----------------------------------|---------|------------|----------------|-----------------|---|---|--|--|
| NCDOT / CITY SIGNAL INV. NO. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) |   | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1.2") | Underground Conduit (2.2") | Directional Drill | Inductive Loop Sawcut | Loop Lead-In Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Sidewalk Guy Assembly | Type I Post with Foundation | Junction Box | Remove existing pedestrian signal | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24", 120 MILS | Thermoplastic Pavement Marking Lines (8", 120 MILS) | Thermoplastic White yield lines, 90 MILS |  |
| 145                          | 07-1990           | NC 62 (Alamance Road) at SR 1213 (Grand Oaks Boulevard)                                     | 6.087                      | 147.0  |   |  | 1                             | 1                             |                               | 440          |                        |                        | 10                         |                            |                   | 50                    | 280                |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 146                          | 07-1991           | SR 1213 (Grand Oaks Boulevard) at SR 1146 (Kirkpatrick Road)                                | 6.056                      | 148.0  |   |  | 2                             | 4                             |                               | 1000         |                        |                        |                            |                            |                   |                       |                    |      | 1         |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 147                          | 07-1992           | SR 1226 (University Drive)/SR 1213 (Grand Oaks Boulevard) at SR 1149/SR 1158 (Huffman Mill  | 6.054                      | 149.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    | 2    |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 148                          | 07-1993           | SR 1226 (University Drive) at I-40 EB-85 NB Ramps   | 6.051                      | 150.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 149                          | 07-1994           | SR 1226 (University Drive) at I-40 WB-85 SB Ramps   | 6.051                      | 151.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   | 130                   | 200                |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 150                          | 07-1995           | SR 1226 (University Drive) at SR 1301 (Boone Station Drive)/University Commons Shopping Cen | 6.050                      | 152.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 151                          | 07-1996           | US 70 (S. Church Street) at SR 1311 (University Drive)                                      | 6.005                      | 153.0  |   |  |                               |                               |                               | 2330         |                        |                        | 40                         |                            |                   |                       | 4830               |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 152                          | 07-2063           | SR 2424 (S. Maple Street) at W. Pine Street   | 6.179                      | 154.0  |   |  | 8                             |                               |                               | 440          |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 153                          | 07-2064           | SR 2424 (Maple Street) at W. Elm Street   | 6.179                      | 155.0  | Y |  | 4                             |                               |                               | 170          |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 154                          | 07-2070           | SR 1226 (University Drive) at SR 1300 (Rural Retreat Road)                                  | 6.049                      | 156.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            | 80                | 520                   |                    |      |           |                   |                            |                       |                             | 1            |                                   |         |            |                |                 |   |   |  |  |
| 155                          | 07-2073           | SR 1716 (S. Graham-Hopedale Road) at Piedmont Way   | 6.187                      | 157.0  |   |  | 2                             | 1                             |                               | 280          |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 156                          | 07-2094           | SR 1308 (Garden Road) at Boone Station Drive  | 6.060                      | 158.0  |   |  | 4                             | 4                             |                               | 1080         |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 157                          | 07-2095           | SR 1301 (Boone Station Drive) at SR 1301 (St. Marks Church Road)/Java Lane                  | 6.057                      | 159.0  |   |  | 2                             | 4                             |                               | 1090         |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 158                          | 07-2096           | US 70 (S. Church Street) at Tribek Drive  | 6.015                      | 160.0  |   |  | 2                             | 2                             |                               | 360          | 4                      |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 159                          | 07-2115           | SR 1311 (University Drive) at The Shoppes at Waterford                                      | 6.047                      | 161.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 160                          | 07-2117           | SR 1226 (University Drive) at SR 1165 (Bonnar Bridge Parkway)/SR 1230 (St. Marks Church Roa | 6.052                      | 162.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 161                          | 07-2128           | SR 1306 (S. Mebane Street) at 85 Plaza/Saintsbury Drive                                     | 6.077                      | 163.0  |   |  | 2                             | 2                             |                               | 390          |                        |                        |                            |                            |                   |                       |                    |      | 1         |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 162                          | 07-2203           | SR 1301 (St. Marks Church Road) at SR 1300 (Rural Retreat Road)                             | 6.070                      | 164.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 163                          | 07-2204           | US 70 WB (N. Fisher Street) at Fulton Street  | 6.030                      | 165.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 164                          | FUTURE            | SR 1158 (Huffman Mill Road) at Alamance Regional Medical Center Entrance                    | 6.063                      | 166.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 165                          | FUTURE            | SR 1213 (Grand Oaks Boulevard) at Alamance Regional Medical Center Entrance                 | 6.055                      | 167.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 166                          | FUTURE            | US 70 (S. Church Street/Burlington Road) at Ashley Woods Drive                              | 6.063                      | 168.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 167                          | FUTURE            | NC 87-100 (W. Webb Avenue) at SR 1515 (Flora Avenue)  | 6.063                      | 169.0  |   |  |                               |                               |                               |              |                        |                        |                            |                            |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |  |
| 168                          | B0001             | W. Davis Street at Trollinger Street/Fountain Place   | 6.14                       | 170.0  |   |  | 8                             |                               |                               | 550          | 500                    |                        |                            |                            |                   |                       | 540                |      |           |                   |                            | 4                     | 3                           |              |                                   |         |            |                |                 |   |   |  |  |

25 JUN 2018 17:22 \*\*\*SEARCHING FOR PROJECTS\*\*\* U-6015 B-6 Sig. Sys\*Task 05\_11\_Signal\*Vol III Front Sheets\*Sig 2.20.dgn ALEX3361 AT LUS340649


- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

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**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBES #F-0326

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

Prepared for the Offices of:  
  
750 Greenfield Parkway, Garner, NC 27529

**Burlington-Graham Signal System  
Summary of Work by  
Intersection (Sheet 3 of 3)**

Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

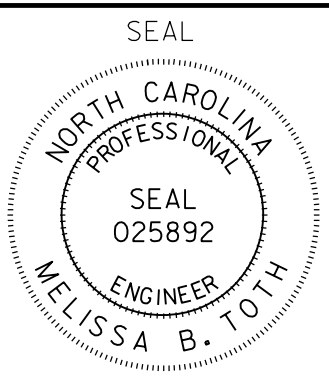
SCALE: NTS

REVISIONS: \_\_\_\_\_

INIT. DATE

Designed by: Melissa B. Toth 6/26/2018  
DATE

CADD Filename: Sig 2.20.dgn



# SUMMARY OF WORK BY INTERSECTION

| Reference Information           |                   |   |                                  |  |                      | Controller,Cabinet & Foundation Work |                     |                      |                           |                         |  |         |                         |  |  |                            |   |               |              |             |  |                       |    |    |
|---------------------------------|-------------------|---|----------------------------------|--|----------------------|--------------------------------------|---------------------|----------------------|---------------------------|-------------------------|--|---------|-------------------------|--|--|----------------------------|---|---------------|--------------|-------------|--|-----------------------|----|----|
| NCDOT / City<br>Signal Inv. No. | Intersection Name | Cable<br>Routing<br>Sheet<br>Number                                 | Signal Design<br>Sheet<br>Number | In / near<br>historically significant area<br>(see box note at bottom of page) | 2070LX<br>Controller |                                      | Type 170<br>Cabinet |                      | Base                      |                         |  |         |                         |  |  | Install New Foundation     |   |               |              |             |  |                       |    |    |
|                                 |                   |   |                                  |  | New                  | Existing                             | New                 | Existing             | No. of New Detector Cards |                         |  | Comment | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet  | Modify Foundation  | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |    |    |
|                                 |                   |   |                                  |  | 332                  | 332 with Auxiliary File              | 336                 | Adjacent to Existing | In Same Place as Existing | Relocated to (quadrant) |  |         |                         |  |  |                            |   |               |              |             |  |                       |    |    |
| 169                             | B0002             | Davis Street at Hillcrest School                                    | 6.134                            | 171.0  |                      | 1                                    | 1                   | 4                    | 1                         | 1                       |  |         |                         |  | Install adjacent to Davis St 5'-10' back from ex. location | Ex                         |   |               |              | 270         | 1                                      |                       |    | 23 |
| 170                             | B0003             | Davis Street at Everett Street                                      | 6.121                            | 172.0  |                      | 1                                    | 1                   | 1                    | 1                         |                         |  |         |                         |  |  |                            |   |               |              | 0           | 1                                      |                       |    |    |
| 171                             | B0004             | Edgewood Avenue at Engleman Avenue                                  | 6.149                            | 173.0  |                      | 1                                    | 1                   | 5                    | 1                         | 1                       |  |         |                         | Along Engleman 5' behind existing location   | 1  |                            |   |               | 0            | 1           |  |                       | 24 |    |
| 172                             | B0005             | Edgewood Avenue at Gurney Street                                    | 6.148                            | 174.0  |                      | 1                                    | 1                   | 5                    | 1                         | 1                       |  |         |                         | Along Gurney 5'-10' back   | 1  |                            |   |               | 270          | 1           |  |                       | 16 |    |
| 173                             | B0007             | Delaney Drive at Smith Elementary School                            | 6.144                            | 175.0  |                      | 1                                    | 1                   | 4                    | 1                         | 1                       |  |         |                         | from pole mounted to base mounted; add terminal splice box for cable extensions; replace disconnect and conduit, wires from meter down | 1  |                            |   |               | 45           | 1           |  |                       | 24 |    |
| 174                             | B0008             | S. Main Street at Kitchin Street                                    | 6.085                            | 176.0  |                      | 1                                    | 1                   | 4                    | 1                         | 1                       |  |         |                         | 5'-10' along Kitchin   | 1  |                            |   |               | 0            | 1           |  |                       | 23 |    |
| 175                             | B0011             | N. Mebane Street at Ireland Street                                  | 6.032                            | 177.0  |                      | 1                                    | 1                   | 5                    | 1                         | 1                       |  |         |                         | 5'-10' off pole along/toward Ireland   | 1  |                            |   |               | 345          | 1           |  |                       | 21 |    |
| 176                             | B0012             | Forestdale Drive at Boone Station Drive                             | 6.071                            | 178.0  |                      | 1                                    | 1                   | 3                    |                           |                         |  |         |                         |  |  |                            |   |               |              |             |  | 1                     | 22 |    |
| 177                             | B6228             | S. Main Street at Maple Avenue                                      | 6.116                            | 179.0  |                      | 1                                    | 1                   | 1                    |                           | 1                       |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 178                             | B6229             | W. Davis Street at S. Worth Street                                  | 6.127                            | 180.0  |                      | 1                                    | 1                   | 1                    |                           | 1                       |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 179                             | B6468             | Maple Avenue at S. Worth Street                                     | 6.116                            | 181.0  |                      | 1                                    | 1                   | 1                    |                           | 1                       |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 180                             | B6469             | Maple Avenue at S. Spring Street                                    | 6.117                            | 182.0  |                      | 1                                    | 1                   | 0                    |                           | 1                       |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 181                             | B6765             | S. Worth Street at Morehead Street                                  | 6.116                            | 183.0  | Y                    | 1                                    | 1                   | 1                    |                           | 1                       |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 182                             | B6766             | S. Main Street at Morehead Street                                   | 6.116                            | 184.0  |                      | 1                                    | 1                   | 0                    |                           | 1                       |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 183                             | B6767             | S. Main Street at Fifth Street                                      | 6.116                            | 185.0  |                      | 1                                    | 1                   | 1                    |                           | 1                       |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 184                             | B7272             | Tarleton Avenue at Edgewood Avenue                                  | 6.153                            | 186.0  |                      | 1                                    | 1                   | 6                    | 1                         |                         |  |         |                         |  |  |                            |   |               | 0            | 1           |  |                       |    |    |
| 185                             | B7273             | Edgewood Avenue at Hermitage Road/Turrentine School Access          | 6.151                            | 187.0  |                      | 1                                    | 1                   | 5                    | 1                         |                         |  |         |                         | new service wires because adding extender  |  |                            |   |               | 0            | 1           |  |                       |    |    |
| 186                             | B7274             | Edgewood Avenue at Turrentine School Access/Medical Building Access | 6.151                            | 188.0  |                      | 1                                    | 1                   | 4                    | 1                         |                         |  |         |                         | new service wires because adding extender  |  |                            |   |               | 0            | 1           |  |                       |    |    |
| 187                             | B8021             | S. Broad Street at E. Davis Street                                  | 6.119                            | 189.0  |                      | 1                                    | 1                   | 0                    |                           |                         |  |         |                         |  |  |                            |   |               | 0            |             |  | 1                     | 25 |    |
| 188                             | B8022             | Maple Street at S. Broad Street                                     | 6.119                            | 190.0  | Y                    | 1                                    | 1                   | 0                    |                           |                         |  |         |                         |  |  |                            |   |               | 0            |             |  | 1                     | 23 |    |
| 189                             | B8023             | Edgewood Avenue at Shadowbrook Drive                                | 6.147                            | 191.0  |                      | 1                                    | 1                   | 7                    | 1                         |                         |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |
| 190                             | B8024             | Briarcliff Road/Shadowbrook Drive at Saddle Club Road               | 6.146                            | 192.0  |                      | 1                                    | 1                   | 5                    | 1                         | 1                       |  |         |                         | Cabinet 5' east of pole along Saddle Club Rd   | 1  | 1                          |   |               | 220          | 1           |  |                       | 21 |    |
| 191                             | B8025             | N. Main Street at Holt Street                                       | 6.031                            | 193.0  |                      | 1                                    | 1                   | 4                    |                           |                         |  |         |                         |  |  |                            |   |               | 0            |             |  | 1                     | 23 |    |
| 192                             | B8026             | N. Mebane Street at S. Beaumont Avenue                              | 6.161                            | 194.0  |                      | 1                                    | 1                   | 6                    | 1                         |                         |  |         |                         |  |  |                            |   |               | 0            | *           |  |                       |    |    |

\*Reuse Existing


- Work shown on this sheet is for the upgrade of the traffic signals, including installation of new controllers and cabinets, new or modified foundations, electrical service and miscellaneous signal related items. Additional information can be found in the signal plans in this Volume. Work to be done for fiber-optic cable routing and interconnection is shown on the cable layout plans and on the sheets entitled "Summary of Work by Cable Layout Plans" in Volume I of III.

- The items listed above are for informational purposes only and represent work that is necessary to complete the contract and are not necessarily pay items. See Summary of Quantities and the Project Special Provisions for defined Pay Items for this contract.

Areas within this project have been determined to contain properties with documented historical significance. If it is necessary to deviate from the plans in an area identified to contain properties with historic significance, alert the engineer to contact Environmental Analysis Unit - Historic Architecture Group of North Carolina Department of Transportation for an effects determination before proceeding.

**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBEEES #F-0326

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

Prepared for the Offices of:  
  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION

**Burlington-Graham Signal System  
Summary of Work by  
Intersection (Sheet 1 of 3)**

Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

SCALE: NTS

REVISIONS: \_\_\_\_\_ INIT. DATE

DESIGNED BY: Melissa B. Toth 6/26/2018

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
MELISSA B. TOTH  
025892

CADD File name: Sig 2.21.dgn

25-JUN-2018 17:22  
 \*\*\*SHEET PROJECT: \\GIS\GIS\Transportation\Traffic\U-6015\_B-G\_Sig\_System\Task\_05\_11\_Signal\Vol\_111\_Front\_Sheets\Sig\_2.21.dgn  
 ALEX3361 AT\_LUS340649

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  | Conduit and Riser Work                   |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   | Power Service   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
|------------------------------|-------------------|---|----------------------------|--|--|--|---|---|----------------------------------|--|-----------------------------|---|---|----------------------------------|---|---|------------------------------------|--|---|---|--|--|---|---|---|---|--|--|--|--|--------------------------------|---|--|
| NCDOT / City Signal Inv. No. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | Drill / Core Drill for 2" for FO or CAT6 | Intercept and use 2" Spare for Signal Cable or Lead-in | Reuse Ex. 1" (pole) or 2" (base) HST Dedicated Riser for Comm (Heat Shrink Kit) | Reuse Ex. 2" (or 3") Dedicated Conduit Entrance for UG Comm | Use 2" Spare Conduit for UG Comm | Use 2" Spare Riser for Comm (Heat Shrink Tubing Kit) | New 2" Riser (HST) for Comm | New 1-1/4" Riser (HST) for Comm to pole mtd cabinet | New 1" Short Riser for Sig-Replace short riser to cabinet | New UG Conduit for Comm Entrance | New Cabinet Entrance in New Foundation for Comm | New 1/2" Risers (WH) for Sig- Pedestrian Push Buttons | New 1" Risers (WH) for CCTV - CAT6 | New 1" Risers (WH) for Sig- New Electrical Service | New 2" Risers (WH) for Sig- New Foundation Location | New 2" Risers (attach to splice box) for Sig- New Foundation Location | New 2" Risers (WH) for System Detector | New 2" Risers (WH) for New Detection Loops | New 2" Risers (WH) for Sig (replace existing) | New UG conduit to new foundation location for Sig | New 2" short Risers for Sig (from terminal splice box or from UG) | Modify Existing Power Service - Install New Service Wires in Existing Conduit | Modify Existing Power Service - Install New Service Wires in New Conduit | Install Service Disconnect by Signal Cabinet | Install 50 Amp Breaker for Signal (Replace Existing) | Install 5/8" x 10' Grounding Electrode | Install New Electrical Service |   |  |
| 169                          | B0002             | Davis Street at Hillcrest School                                    | 6.134                      | 171.0  |  |  |   |   |                                  |  | 1                           |   |   |                                  | 1   |   |                                    |  |   | 1   |  |  |   |   |   |   |  | 1  | 1  |  |                                |   |  |
| 170                          | B0003             | Davis Street at Everett Street                                      | 6.121                      | 172.0  |  |  |   | 1   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   | 1                                      |  |   |   |   |   |  |  |  |  |                                |   |  |
| 171                          | B0004             | Edgewood Avenue at Engleman Avenue                                  | 6.149                      | 173.0  |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    |  | 2   |   |  |  |   |   |   |   |  | 1  | 1  |  |                                |   |  |
| 172                          | B0005             | Edgewood Avenue at Gurney Street                                    | 6.148                      | 174.0  |  |  |   |   |                                  | 1  |                             |   |   | 1                                |   |   |                                    |  | 1   |   |  |  |   |   | 1   |   |  | 1  |  |  |                                |   |  |
| 173                          | B0007             | Delaney Drive at Smith Elementary School                            | 6.144                      | 175.0  |  |  |   |   |                                  |  |                             |   |   | 1                                | 1   |   |                                    |  |   | 1   |  |  |   |   |   |   |  | 1  | 1  |  |                                |   |  |
| 174                          | B0008             | S. Main Street at Kitchin Street                                    | 6.085                      | 176.0  |  |  |   |   |                                  | 1  |                             |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   | 1   |   |  | 1  |  |  |                                |   |  |
| 175                          | B0011             | N. Mebane Street at Ireland Street                                  | 6.032                      | 177.0  |  |  |   |   |                                  | 1  |                             |   |   |                                  |   |   |                                    |  |   | 2   |  |  |   |   |   |   |  | 1  |  |  |                                |   |  |
| 176                          | B0012             | Forestdale Drive at Boone Station Drive                             | 6.071                      | 178.0  |  |  |   |   |                                  |  |                             | 1   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |   |  |
| 177                          | B6228             | S. Main Street at Maple Avenue                                      | 6.116                      | 179.0  |  |  |   |   |                                  |  |                             |   | 1   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
| 178                          | B6229             | W. Davis Street at S. Worth Street                                  | 6.127                      | 180.0  |  |  |   |   |                                  |  |                             |   | 1   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
| 179                          | B6468             | Maple Avenue at S. Worth Street                                     | 6.116                      | 181.0  |  | 1  |   |   |                                  |  |                             |   | 1   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
| 180                          | B6469             | Maple Avenue at S. Spring Street                                    | 6.117                      | 182.0  |  |  |   |   |                                  |  |                             |   | 1   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
| 181                          | B6765             | S. Worth Street at Morehead Street                                  | 6.116                      | 183.0  | Y  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
| 182                          | B6766             | S. Main Street at Morehead Street                                   | 6.116                      | 184.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   | 1   |  |  | 1  |  |                                |   |  |
| 183                          | B6767             | S. Main Street at Fifth Street                                      | 6.116                      | 185.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
| 184                          | B7272             | Tarleton Avenue at Edgewood Avenue                                  | 6.153                      | 186.0  |  |  |   |   |                                  |  |                             | 1   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  | 1                              |   |  |
| 185                          | B7273             | Edgewood Avenue at Hermitage Road/Turrentine School Access          | 6.151                      | 187.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   | 1  |  |  |  |                                |   |  |
| 186                          | B7274             | Edgewood Avenue at Turrentine School Access/Medical Building Access | 6.151                      | 188.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   | 1  |  |  |  |                                |   |  |
| 187                          | B8021             | S. Broad Street at E. Davis Street                                  | 6.119                      | 189.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                |   |  |
| 188                          | B8022             | Maple Street at S. Broad Street                                     | 6.119                      | 190.0  | Y  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   | 2   |   |   | 1  |  |  |  |                                |   |  |
| 189                          | B8023             | Edgewood Avenue at Shadowbrook Drive                                | 6.147                      | 191.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   | 1   |  |  |  |  | 1                              |   |  |
| 190                          | B8024             | Briarcliff Road/Shadowbrook Drive at Saddle Club Road               | 6.146                      | 192.0  |  |  |   |   |                                  |  | 1                           |   |   |                                  | 1   |   |                                    |  |   |   |  |  |   |   | 2   |   | 2  | 1  |  | 1                                      |                                |   |  |
| 191                          | B8025             | N. Main Street at Holt Street                                       | 6.031                      | 193.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                | 1 |  |
| 192                          | B8026             | N. Mebane Street at S. Beaumont Avenue                              | 6.161                      | 194.0  |  |  |   |   |                                  |  |                             |   |   |                                  |   |   |                                    |  |   |   |  |  |   |   |   |   |  |  |  |  |                                | 1 |  |

25 JUN 2018 17:22 \*\*\*SHEETING\*\*\*C:\projects\GIS\LA\Transportation\Traffic\Cur\100056469 U-6015 B-6 Sig-System\Task 05\_11\_Signal\Vol 111\_Front\_Sheets\Sig 2.22.dgn ALEX3361 AT\_LUS340649

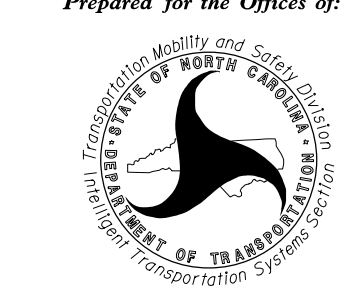
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**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
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**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

Prepared for the Offices of:  

 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

**Burlington-Graham Signal System**  
Summary of Work by  
Intersection (Sheet 2 of 3)

Division 7 Alamance County Burlington & Graham

PLAN DATE: May 2018 REVIEWED BY: MB Toth

PREPARED BY: PL Alexander REVIEWED BY:

750 Greenfield Parkway, Garner, NC 27529

SCALE: NTS

REVISIONS: \_\_\_\_\_ INIT. DATE

DESIGNED BY: Melissa B. Toth 6/26/2018  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CADD Filename: Sig 2.22.dgn

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 025892  
MELISSA B. TOTH

# SUMMARY OF WORK BY INTERSECTION

| Reference Information        |                   |   |                            |  | Signal Items                             |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
|------------------------------|-------------------|---|----------------------------|--|--|-------------------------------|-------------------------------|-------------------------------|--------------|------------------------|------------------------|-----------------------------|-----------------------------|-------------------|-----------------------|--------------------|------|-----------|-------------------|----------------------------|-----------------------|-----------------------------|--------------|-----------------------------------|---------|------------|----------------|-----------------|---|---|--|
| NCDOT / CITY SIGNAL INV. NO. | Intersection Name | Cable Layout Sheet Number   | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 16-inch Countdown Pedestrian Signal Head | 12-inch 3-Section Signal Head | 12-inch 4-Section Signal Head | 12-inch 5-Section Signal Head | Signal Cable | Adjust Span Attachment | Messenger Cable (3/8") | Underground Conduit (1, 2") | Underground Conduit (2, 2") | Directional Drill | Inductive Loop Sawcut | Loop Lead-in Cable | Sign | Wood Pole | Metal Strain Pole | Standard Down Guy Assembly | Sidewalk Guy Assembly | Type I Post with Foundation | Junction Box | Remove existing pedestrian signal | Louvers | Backplates | Remove Line 4" | Remove Line 24" | Thermoplastic Pavement Marking Line 24", 120 MILS | Thermoplastic Pavement Marking Lines (8", 120 MILS) | Thermoplastic White yield lines, 90 MILS |
| 169                          | B0002             | Davis Street at Hillcrest School                                    | 6.134                      | 171.0  |  | 1                             | 1                             |                               | 670          |                        |                        |                             |                             |                   |                       | 200                |      |           |                   | 1                          |                       |                             |              |                                   |         |            |                |                 | 22  |   |  |
| 170                          | B0003             | Davis Street at Everett Street                                      | 6.121                      | 172.0  |  | 8                             |                               |                               |              |                        | 460                    |                             |                             |                   | 40                    | 180                |      |           |                   | 6                          | 1                     | 1                           |              |                                   |         |            |                |                 |   |   |  |
| 171                          | B0004             | Edgewood Avenue at Engleman Avenue                                  | 6.149                      | 173.0  |  |                               |                               |                               | 640          |                        |                        | 150                         |                             |                   | 100                   | 1850               |      |           |                   | 3                          |                       | 1                           |              |                                   |         |            |                |                 |   |   |  |
| 172                          | B0005             | Edgewood Avenue at Gurney Street                                    | 6.148                      | 174.0  |  |                               |                               |                               | 540          |                        |                        | 20                          |                             |                   |                       | 290                |      |           |                   | 2                          |                       | 1                           |              |                                   |         |            |                |                 |   |   |  |
| 173                          | B0007             | Delaney Drive at Smith Elementary School                            | 6.144                      | 175.0  |  | 1                             | 1                             |                               | 210          | 2                      |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 174                          | B0008             | S. Main Street at Kitchin Street                                    | 6.085                      | 176.0  |  | 1                             |                               |                               | 240          | 157                    |                        |                             |                             |                   |                       | 140                |      |           |                   | 2                          | 1                     |                             |              |                                   |         |            |                |                 |   |   |  |
| 175                          | B0011             | N. Mebane Street at Ireland Street                                  | 6.032                      | 177.0  |  |                               |                               |                               | 600          |                        |                        |                             | 10                          |                   |                       | 1770               |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 176                          | B0012             | Forestdale Drive at Boone Station Drive                             | 6.071                      | 178.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 177                          | B6228             | S. Main Street at Maple Avenue                                      | 6.116                      | 179.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   | 70                    | 20                 |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 178                          | B6229             | W. Davis Street at S. Worth Street                                  | 6.127                      | 180.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   | 140                   | 50                 |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 179                          | B6468             | Maple Avenue at S. Worth Street                                     | 6.116                      | 181.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   | 50                    | 210                |      |           |                   |                            |                       | 1                           |              |                                   |         |            |                |                 |   |   |  |
| 180                          | B6469             | Maple Avenue at S. Spring Street                                    | 6.117                      | 182.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 181                          | B6765             | S. Worth Street at Morehead Street                                  | 6.116                      | 183.0  | Y  |                               |                               |                               |              |                        |                        |                             |                             |                   | 70                    | 20                 |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 182                          | B6766             | S. Main Street at Morehead Street                                   | 6.116                      | 184.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 183                          | B6767             | S. Main Street at Fifth Street                                      | 6.116                      | 185.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 184                          | B7272             | Tarleton Avenue at Edgewood Avenue                                  | 6.153                      | 186.0  |  | 4                             | 1                             |                               | 590          | 2                      |                        |                             |                             |                   | 180                   | 1380               |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 185                          | B7273             | Edgewood Avenue at Hermitage Road/Turrentine School Access          | 6.151                      | 187.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 186                          | B7274             | Edgewood Avenue at Turrentine School Access/Medical Building Access | 6.151                      | 188.0  |  | 2                             | 1                             |                               | 320          | 1                      |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 187                          | B8021             | S. Broad Street at E. Davis Street                                  | 6.119                      | 189.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       | 2                           |              |                                   |         |            |                |                 |   |   |  |
| 188                          | B8022             | Maple Street at S. Broad Street                                     | 6.119                      | 190.0  | Y  | 8                             |                               |                               | 480          | 430                    |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 189                          | B8023             | Edgewood Avenue at Shadowbrook Drive                                | 6.147                      | 191.0  |  |                               |                               |                               |              |                        |                        | 6                           |                             |                   |                       |                    |      |           |                   | 1                          | 2                     | 1                           |              |                                   |         |            |                |                 |   |   |  |
| 190                          | B8024             | Briarcliff Road/Shadowbrook Drive at Saddle Club Road               | 6.146                      | 192.0  |  | 2                             | 1                             |                               | 640          | 1                      | 15                     |                             |                             |                   | 190                   | 260                |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |
| 191                          | B8025             | N. Main Street at Holt Street                                       | 6.031                      | 193.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   | 2                          |                       |                             |              |                                   |         |            |                |                 | 20  |   |  |
| 192                          | B8026             | N. Mebane Street at S. Beaumont Avenue                              | 6.161                      | 194.0  |  |                               |                               |                               |              |                        |                        |                             |                             |                   |                       |                    |      |           |                   |                            |                       |                             |              |                                   |         |            |                |                 |   |   |  |

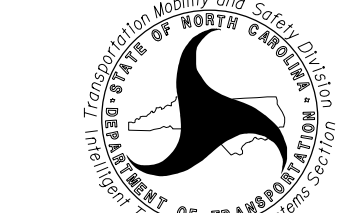
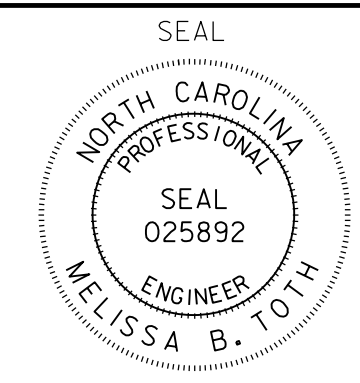
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 ALEX3361 AT LUS340649

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**ATKINS** 1616 EAST MILLBROOK ROAD, SUITE 160  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888 NCBEES #F-0326

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| Prepared for the Offices of:<br> |       | <b>Burlington-Graham Signal System</b><br>Summary of Work by<br>Intersection (Sheet 3 of 3)  |      |  |
| 750 Greenfield Parkway, Garner, NC 27529<br>SCALE<br><b>NTS</b>   |       | Division 7 Alamance County Burlington & Graham<br>PLAN DATE: May 2018 REVIEWED BY: MB Toth<br>PREPARED BY: PL Alexander REVIEWED BY: |      |   |
| REVISIONS   | INIT. | DATE   | DATE |   |
|   |       |  |      |   |
|   |       |  |      |   |
|   |       |  |      |   |

Designed by  
 Melissa B. Toth  
 DATE: 6/26/2018  
 CADD File name: Sig 2.23.dgn

# SUMMARY OF WORK BY INTERSECTION

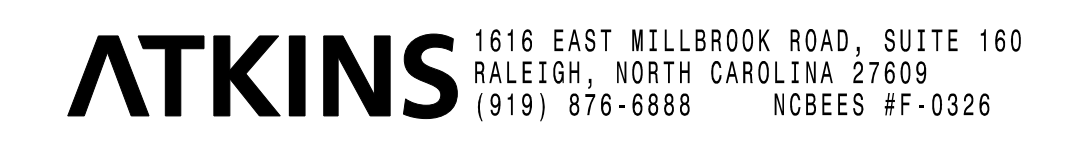
| Reference Information        |  |                            |                            |  |                   | Controller, Cabinet & Foundation Work |          |      |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   |                   |                            |   |               |              |             |  |                       |
|------------------------------|--|----------------------------|----------------------------|--|-------------------|---------------------------------------|----------|------|-------------------------|-----|----------------------|---------------------------|-------------------------|---------|------------------------|--|--|--|-------------------------|---|-------------------|----------------------------|---|---------------|--------------|-------------|--|-----------------------|
| NCDOT / City Signal Inv. No. | Intersection Name                                      | Cable Routing Sheet Number | Signal Design Sheet Number | In / near historically significant area (see box note at bottom of page) | 2070LX Controller | Type 170 Cabinet                      |          | Base |                         |     |                      |                           |                         |         | Install New Foundation |  |  |  | Terminal Splice Cabinet | Remove Existing Terminal Splice Cabinet | Modify Foundation | Remove Existing Foundation | Rotate Front of Cabinet clockwise (degrees) | Base Extender | Base Adapter | Pole (336S) | Ex. Height - Ground to Bottom (inches) | Replace concrete (SY) |
|                              |  |                            |                            |  |                   | New                                   | Existing | 332  | 332 with Auxiliary File | 336 | Adjacent to Existing | In Same Place as Existing | Relocated to (quadrant) | Comment |                        |  |  |  |                         |   |                   |                            |   |               |              |             |  |                       |
| 193                          | B8027 Graham Street at Queen Ann Street                | 6.190                      | 195.0                      |  | 1                 | 1                                     | 4        |      |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   |                   |                            |   |               | 1            | 20          |  |                       |
| 194                          | B8451 N. Beaumont Avenue at Vaughn Road                | 6.162                      | 196.0                      |  | 1                 | 1                                     | 4        |      | 1                       |     |                      |                           |                         |         |                        |  |  |  |                         |   |                   |                            |   |               |              |             |  |                       |
| 195                          | B8453 Graham Street at Beaumont Avenue                 | 6.191                      | 197.0                      |  | 1                 | 1                                     | 2        | 1    |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 | 1                          |   |               |              |             |  |                       |
| 196                          | B8454 E. Front Street at S. Spring Street              | 6.117                      | 198.0                      |  | 1                 | 1                                     | 0        | 1    | 1                       |     |                      |                           |                         |         |                        |  |  |  | 1                       | 90                                      | 1                 |                            |   |               |              |             |  |                       |
| 197                          | B8455 E. Davis Street at S. Spring Street              | 6.117                      | 199.0                      | Y  | 1                 | 1                                     | 0        |      | 1                       |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 198                          | B8456 S. Lexington Avenue at E. Davis Street           | 6.118                      | 200.0                      | Y  | 1                 | 1                                     | 0        |      | 1                       |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 199                          | B8457 Maple Avenue at S. Lexington Avenue              | 6.118                      | 201.0                      | Y  | 1                 | 1                                     | 0        |      | 1                       |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 200                          | B8458 S. Worth Street at W. Front Street               | 6.127                      | 202.0                      |  | 1                 | 1                                     | 0        |      | 1                       |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 201                          | B9024 Boone Station Drive at Glidewell Drive/Tiki Lane | 6.058                      | 203.0                      |  | 1                 | 1                                     | 10       | 1    |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 202                          | B9025 Boone Station Drive at Waltham Boulevard         | 6.059                      | 204.0                      |  | 1                 | 1                                     | 6        | 1    |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 | *                          |   |               |              |             |  |                       |
| 203                          | G0100 Marshall Street at E. Elm Street                 | 6.180                      | 205.0                      |  | 1                 | 1                                     | 0        |      |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   | 180               |                            |   | 1             | 24           |             |  |                       |
| 204                          | G0101 E. Pine Street at S. Marshall Street             | 6.180                      | 206.0                      | Y  | 1                 | 1                                     | 0        |      |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 |                            |   | 1             |              |             |  |                       |
| 205                          | G0102 E. Pine Street at S. Melville Street             | 6.180                      | 207.0                      |  | 1                 | 1                                     | 0        |      |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   | 180               |                            |   | 1             | 23           |             |  |                       |
| 206                          | G0103 N. Marshall Street at Albright Avenue            | 6.181                      | 208.0                      |  | 1                 | 1                                     | 2        |      |                         |     |                      |                           |                         |         |                        |  |  |  |                         |   | 0                 |                            |   | 1             | 25           |             |  |                       |
| <b>Total</b>                 |  |                            |                            |  | 200               | 0                                     | 200      | 0    | 946                     | 1   | 132                  | 16                        | 17                      | 2       | 6                      |  |  |  |                         |   | 9                 | 9                          | 6   | 5             | 69           | 7           | 51                                     | 40                    |

\*Reuse Existing

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|--|---|---|--|
|  | <b>Burlington-Graham Signal System</b><br>Summary of Work by<br>Intersection (Sheet 1 of 3) |   |  |
|  | Division 7 Alamance County<br>Prepared by: PL Alexander<br>Scale: NTS                       | Burlington & Graham<br>Reviewed by: MB Toth<br>Date: May 2018 |  |

6/26/2018  
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