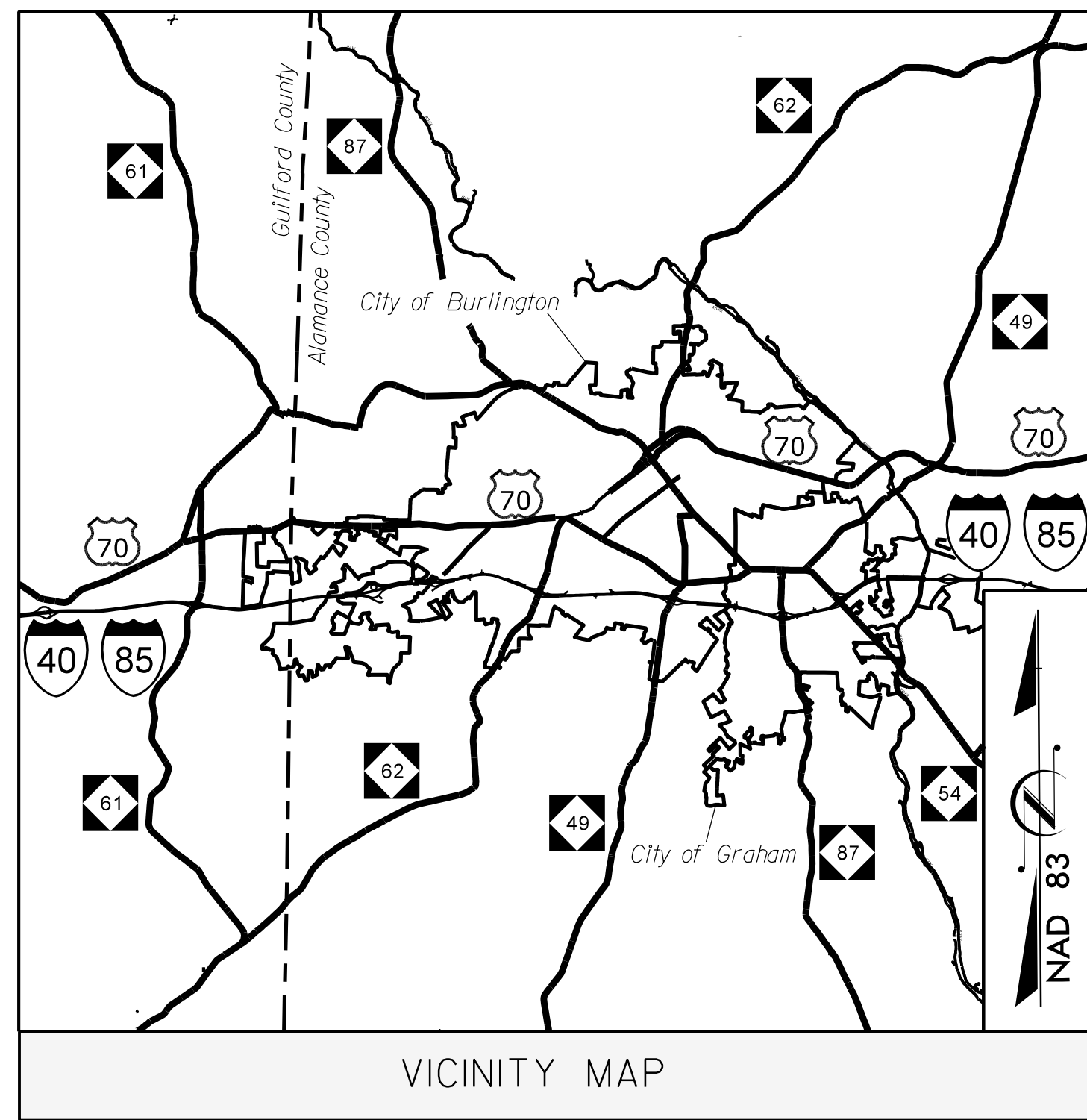


TIP PROJECT: U-6015

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	FS-1.00	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47160.1.1		PE	
47160.3.1	STBG-0701 (036)	CONST	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

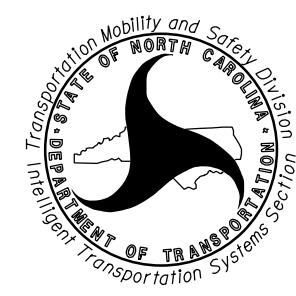


Volume II of III
Fiber-Optic Splicing

2018 STANDARD SPECIFICATIONS

LETTING DATE: SEPTEMBER 18, 2018

PROJECT LENGTH = 55 MILES



750 Greenfield Parkway, Garner, NC 27529

NC DOT 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

ATKINS

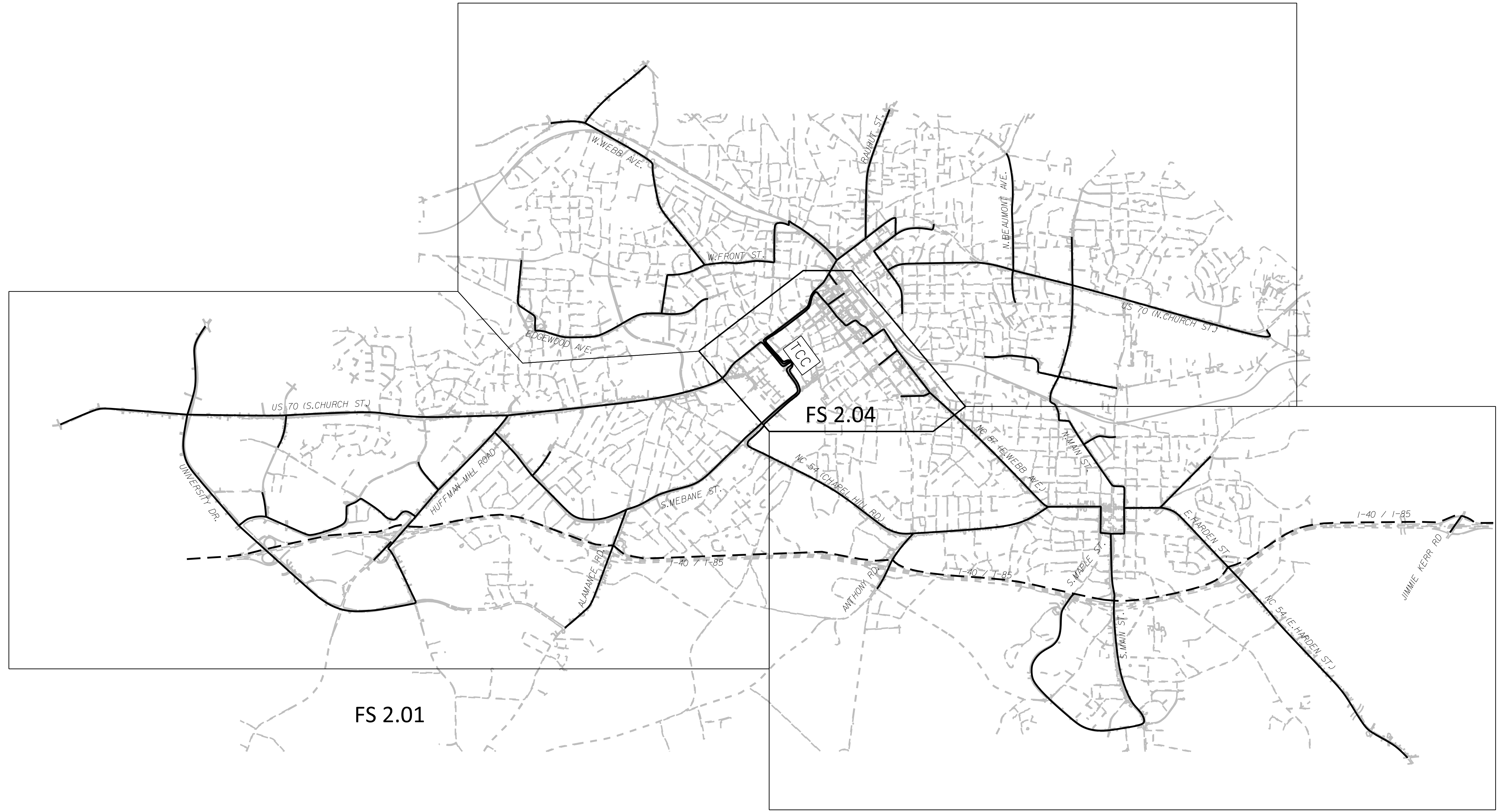
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

MELISSA B. TOTH, PE - ATKINS PROJECT MANAGER
H. ALFRED BADGETT, PE - ATKINS SENIOR PROJECT ENGINEER
BRADFORD SLOCUM, PE - ATKINS PROJECT ENGINEER
ANTHONY M. ENCARNACION, PE - ATKINS PROJECT ENGINEER



DocuSigned by:
Bradford J. Slocum 15/2018
SIGNATURE DATE

FS 2.03



FS 2.01

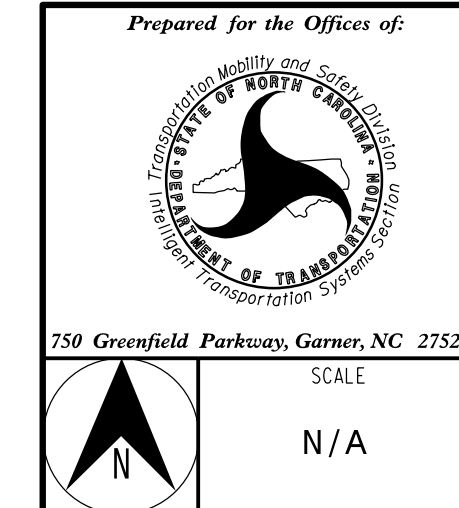
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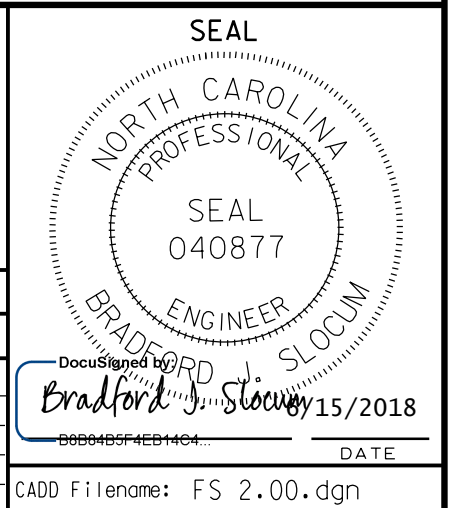
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SLOCUM

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

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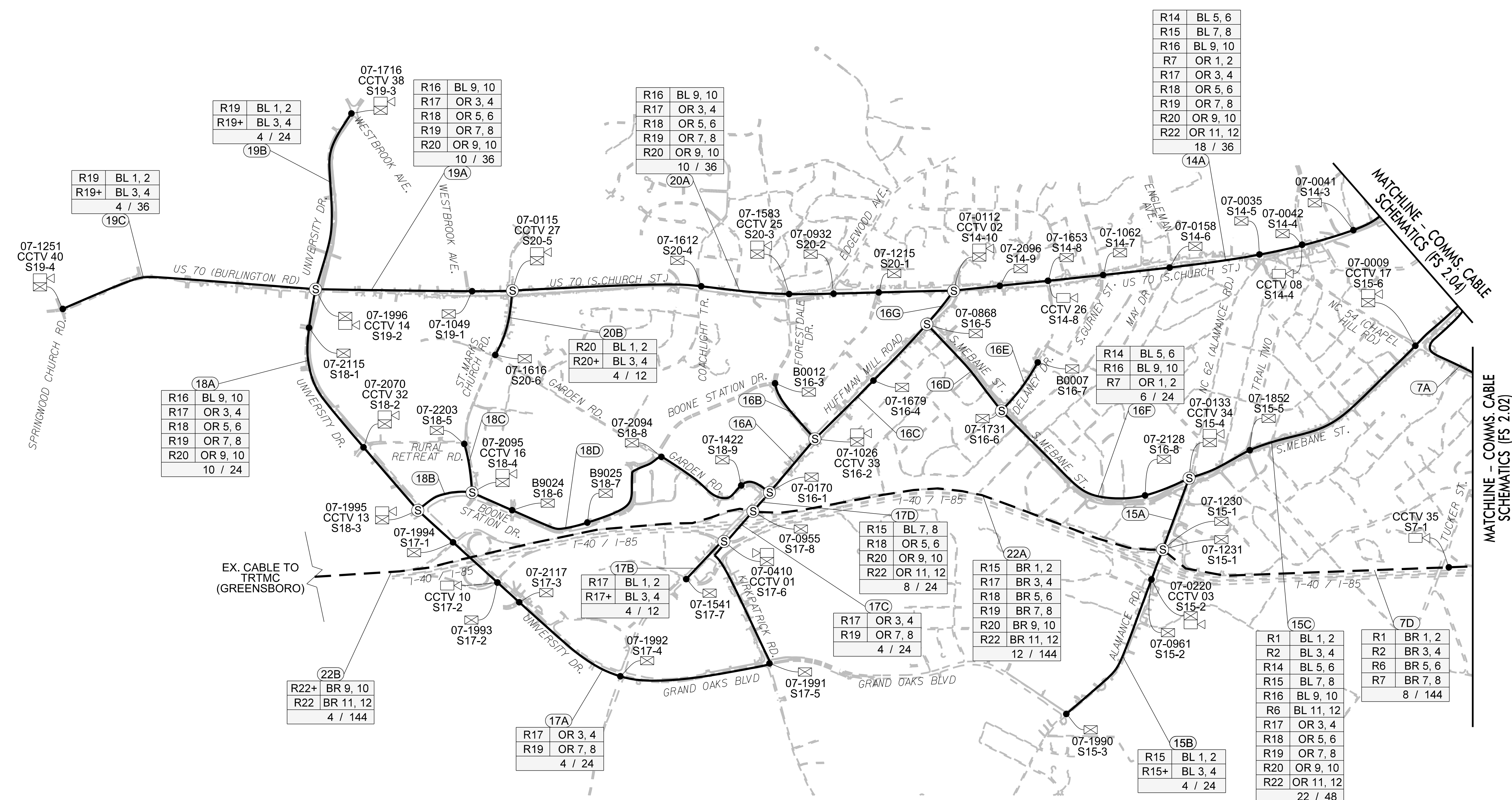


Burlington-Graham Signal System Comms. Cable Schematics Sheet Layout	
Division 7	Burlington & Graham
Alamance County	
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES
REVISIONS	INIT. DATE



SCALE
N/A

DocuSign
Bradford J. Slocum 15/2018
DATE
CADD Filename: FS 2.00.dgn



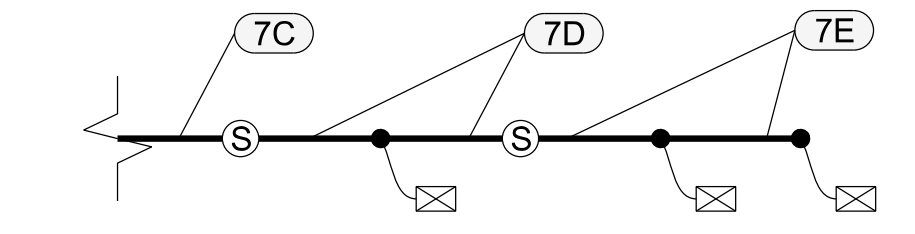
7A	15A	16A	16B	16C	16D	16E
R21 BL 1, 2 R3 BL 5, 6 R4 BL 7, 8 R5 BL 9, 10 R7 OR 1, 2 R8 OR 3, 4 R9 OR 5, 6 R10 OR 7, 8 R11 OR 9, 10 R23 OR 11, 12 R12 GR 1, 2 R13 GR 5, 6 24 / 48	R1 BL 1, 2 R2 BL 3, 4 R15 BL 7, 8 R6 BL 11, 12 R7 OR 1, 2 R17 OR 3, 4 R18 OR 5, 6 R19 OR 7, 8 R20 OR 9, 10 R22 OR 11, 12 20 / 48	R15 BL 7, 8 R16 BL 9, 10 R22 OR 11, 12 6 / 24	R16 BL 1, 2 R16+ BL 3, 4 4 / 12	R15 BL 7, 8 R16 BL 9, 10 R22 OR 11, 12 6 / 24	R14 BL 5, 6 R16 BL 9, 10 R7 OR 1, 2 6 / 24	R16 BL 1, 2 R16+ BL 3, 4 4 / 12
16G	18B	18C	18D			
R14 BL 5, 6 R15 BL 7, 8 R7 OR 1, 2 R22 OR 11, 12 8 / 24	R16 BL 9, 10 R18 OR 5, 6 R20 OR 9, 10 6 / 24	R18 BL 1, 2 R18+ BL 3, 4 4 / 12	R16 BL 9, 10 R18 OR 5, 6 R20 OR 9, 10 6 / 24			

LEGEND

- ⊕ CABLE-TO-CABLE SPLICE
- DROP SPLICE TO CCTV CABINET
- ⊗ DROP SPLICE TO SIGNAL CABINET
- ⊗ DROP SPLICE TO SIGNAL CABINET (SHARED SWITCH WITH CCTV)
- ⊗ DROP SPLICE TO BUILDING (STORE CABLE OUTSIDE BUILDING PER CL SHEET)
- NEW FIBER-OPTIC CABLE
- - - EXISTING FIBER-OPTIC CABLE
- S### SPLICE NUMBER
- B#### CITY SIGNAL INVENTORY NUMBER
- 07-#### STATE SIGNAL INVENTORY NUMBER
- CCTV ## CCTV ID
- CABLE ID
- RING NUMBER
- FIBER PAIRS ASSIGNED TO RING
- TOTAL FIBERS IN CABLE
- LIT FIBERS IN CABLE (PER THIS PROJECT)
- + DENOTES SECONDARY PATH
- FIBER BUFFER TUBES
- BL - BLUE
- OR - ORANGE
- GR - GREEN
- BR - BROWN

NOTES:

- CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS.
- CCTV 9 AND CCTV 11 TO BE REMOVED AND NOT SHOWN ON CABLE SCHEMATICS FOR CLARITY.
- CABLE ID NUMBERS REPRESENT UNIQUE CABLE NAMES BETWEEN TWO CABLE-TO-CABLE SPLICES, OR BETWEEN A CABLE-TO-CABLE SPLICE AND THE END OF A CABLE RUN; CABLE ID NUMBERS DO NOT CHANGE BETWEEN SIMPLE DROP CABLE SPLICES.

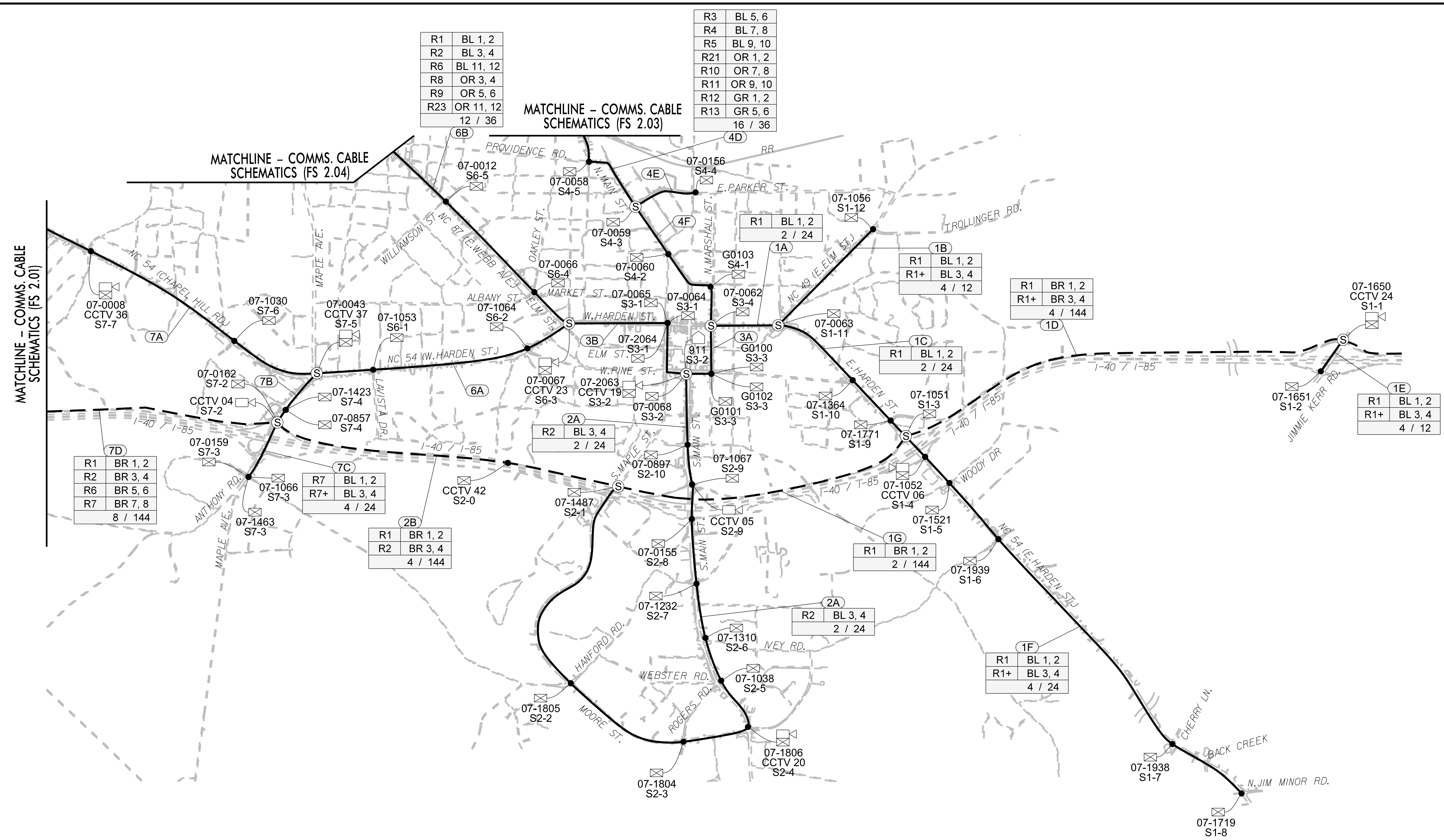


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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

	Burlington-Graham Signal System Comms. Cable Schematics (1 of 4)		
	Division 7 PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	Alamance County REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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3A	
R1	BL 1, 2
R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R21	OR 1, 2
R10	OR 7, 8
R11	OR 9, 10
R12	GR 1, 2
R13	GR 5, 6
18 / 48	

3B	
R1	BL 1, 2
R2	BL 3, 4
R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R10	OR 7, 8
R11	OR 9, 10
R12	GR 1, 2
R13	GR 5, 6
20 / 48	

4E	
R4	BL 1, 2
R4+	BL 3, 4
4 / 12	

4F	
R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R21	OR 1, 2
R10	OR 7, 8
R11	OR 9, 10
R12	GR 1, 2
R13	GR 5, 6
16 / 36	

6A	
R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R6	BL 11, 12
R21	OR 1, 2
R10	OR 7, 8
R11	OR 9, 10
R23	OR 11, 12
R12	GR 1, 2
R13	GR 5, 6
24 / 48	

7A	
R21	BL 1, 2
R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R7	OR 1, 2
R8	OR 3, 4
R9	OR 5, 6
R10	OR 7, 8
R11	OR 9, 10
R23	OR 11, 12
R12	GR 1, 2
R13	GR 5, 6
24 / 48	

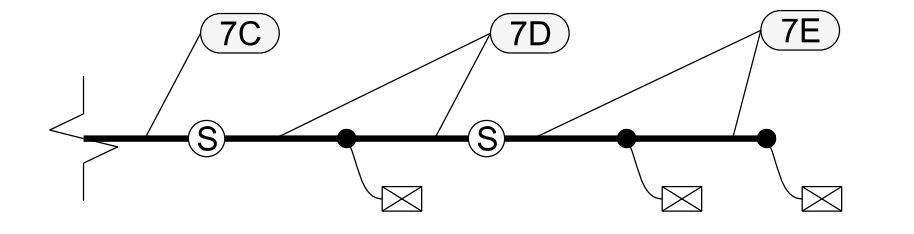
7B	
R6	BL 11, 12
R7	OR 1, 2
4 / 24	

LEGEND

- CABLE-TO-CABLE SPLICE
- DROP SPLICE TO CCTV CABINET
- DROP SPLICE TO SIGNAL CABINET
- DROP SPLICE TO SIGNAL CABINET (SHARED SWITCH WITH CCTV)
- DROP SPLICE TO BUILDING (STORE CABLE OUTSIDE BUILDING PER CL SHEET)
- NEW FIBER-OPTIC CABLE
- EXISTING FIBER-OPTIC CABLE
- S### SPLICE NUMBER
- B##### CITY SIGNAL INVENTORY NUMBER
- 07-#### STATE SIGNAL INVENTORY NUMBER
- CCTV ## CCTV ID
- R### RING NUMBER
- FIBER PAIRS ASSIGNED TO RING
- TOTAL FIBERS IN CABLE
- LIT FIBERS IN CABLE (PER THIS PROJECT)
- + DENOTES SECONDARY PATH
- FIBER BUFFER TUBES
 - BL - BLUE
 - OR - ORANGE
 - GR - GREEN
 - BR - BROWN

NOTES:

1. CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS.
2. CCTV 9 AND CCTV 11 TO BE REMOVED AND NOT SHOWN ON CABLE SCHEMATICS FOR CLARITY.
3. CABLE ID NUMBERS REPRESENT UNIQUE CABLE NAMES BETWEEN TWO CABLE-TO-CABLE SPLICES, OR BETWEEN A CABLE-TO-CABLE SPLICE AND THE END OF A CABLE RUN; CABLE ID NUMBERS DO NOT CHANGE BETWEEN SIMPLE DROP CABLE SPLICES.

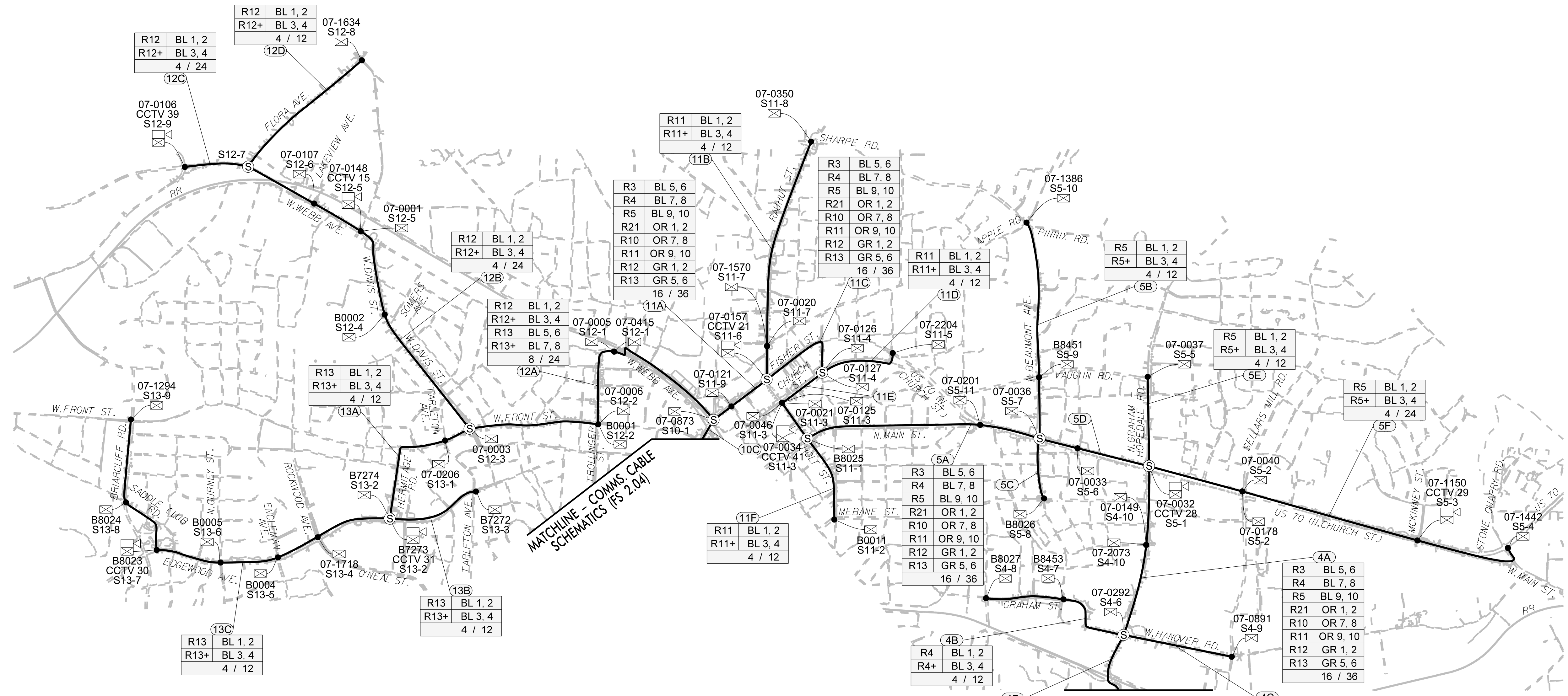


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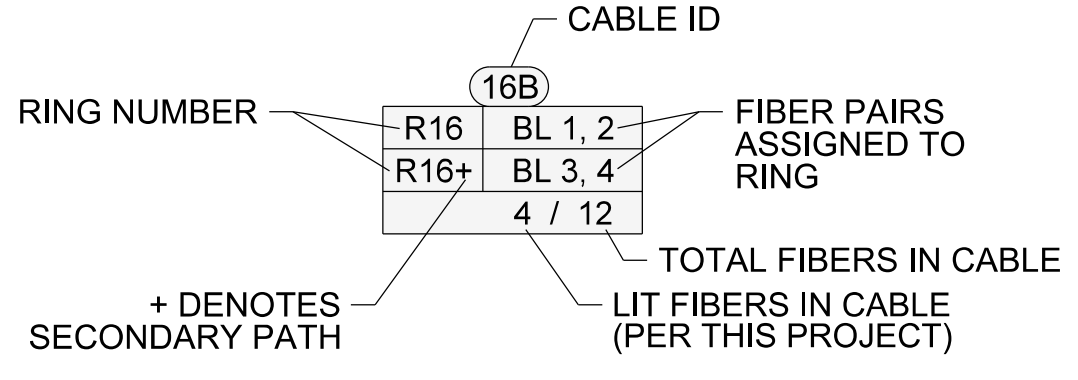
	Burlington-Graham Signal System Comms. Cable Schematics (2 of 4)		
	Division 7 PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	Alamance County REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	
750 Greenfield Parkway, Garner, NC 27529	SCALE 1/4 MI	DATE	DATE

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(5C)	(5D)	(10C)	(11E)
R5 BL 1, 2 R5+ BL 3, 4 4 / 12	R3 BL 5, 6 R4 BL 7, 8 R5 BL 9, 10 R21 OR 1, 2 R10 OR 7, 8 R11 OR 9, 10 R12 GR 1, 2 R13 GR 5, 6 16 / 36	R3 BL 5, 6 R4 BL 7, 8 R5 BL 9, 10 R21 OR 1, 2 R10 OR 7, 8 R11 OR 9, 10 R12 GR 1, 2 R13 GR 5, 6 16 / 36	R3 BL 5, 6 R4 BL 7, 8 R5 BL 9, 10 R21 OR 1, 2 R10 OR 7, 8 R11 OR 9, 10 R12 GR 1, 2 R13 GR 5, 6 16 / 36

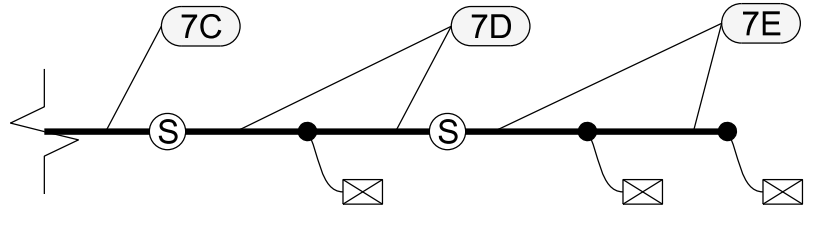
- LEGEND**
- ⊙ CABLE-TO-CABLE SPLICE
 - □ DROP SPLICE TO CCTV CABINET
 - □ DROP SPLICE TO SIGNAL CABINET
 - □ DROP SPLICE TO SIGNAL CABINET (SHARED SWITCH WITH CCTV)
 - □ DROP SPLICE TO BUILDING (STORE CABLE OUTSIDE BUILDING PER CL SHEET)
 - NEW FIBER-OPTIC CABLE
 - - - EXISTING FIBER-OPTIC CABLE
 - S### SPLICE NUMBER
 - B#### CITY SIGNAL INVENTORY NUMBER
 - 07-#### STATE SIGNAL INVENTORY NUMBER
 - CCTV ## CCTV ID



FIBER BUFFER TUBES

BL	-	BLUE
OR	-	ORANGE
GR	-	GREEN
BR	-	BROWN

- NOTES:**
- CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS.
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**Burlington-Graham Signal System
Comms. Cable Schematics
(3 of 4)**

Division 7 Alamance County Burlington & Graham

PLAN DATE: June 2018 REVIEWED BY: HA BADGETT

PREPARED BY: BJ SLOCUM REVIEWED BY: DL JONES

REVISIONS: _____ INIT. DATE

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
040877

ENGINEER
BRADFORD J. SLOCUM

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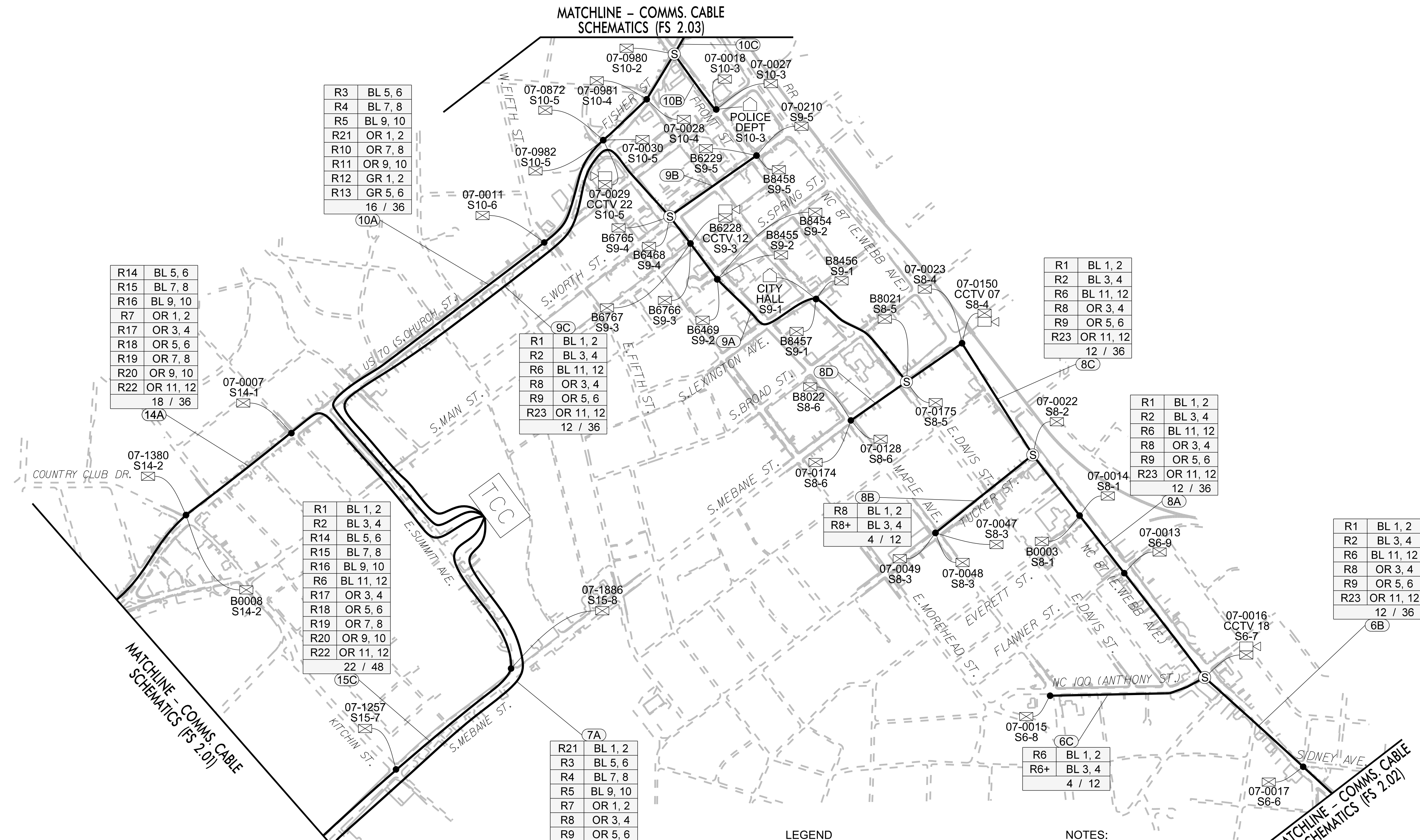
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750 Greenfield Parkway, Garner, NC 27529

SCALE 1/4 MI

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8D

R8	BL 1, 2
R8+	BL 3, 4
4 / 12	

9A

R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

9B

R9	BL 1, 2
R9+	BL 3, 4
4 / 12	

10B

R10	BL 1, 2
R10+	BL 3, 4
R21	BL 5, 6
R21+	BL 7, 8
8 / 12	

10C

R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R21	OR 1, 2
R10	OR 7, 8
R11	OR 9, 10
R12	GR 1, 2
R13	GR 5, 6
16 / 36	

7A

R21	BL 1, 2
R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R7	OR 1, 2
R8	OR 3, 4
R9	OR 5, 6
R10	OR 7, 8
R11	OR 9, 10
R23	OR 11, 12
R12	GR 1, 2
R13	GR 5, 6
24 / 48	

R1	BL 1, 2
R2	BL 3, 4
R14	BL 5, 6
R15	BL 7, 8
R16	BL 9, 10
R6	BL 11, 12
R17	OR 3, 4
R18	OR 5, 6
R19	OR 7, 8
R20	OR 9, 10
R22	OR 11, 12
22 / 48	

R14	BL 5, 6
R15	BL 7, 8
R16	BL 9, 10
R7	OR 1, 2
R17	OR 3, 4
R18	OR 5, 6
R19	OR 7, 8
R20	OR 9, 10
R22	OR 11, 12
18 / 36	

R3	BL 5, 6
R4	BL 7, 8
R5	BL 9, 10
R21	OR 1, 2
R10	OR 7, 8
R11	OR 9, 10
R12	GR 1, 2
R13	GR 5, 6
16 / 36	

R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

R1	BL 1, 2
R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

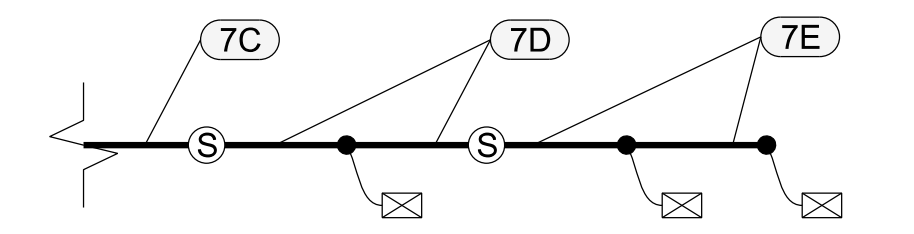
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R2	BL 3, 4
R6	BL 11, 12
R8	OR 3, 4
R9	OR 5, 6
R23	OR 11, 12
12 / 36	

LEGEND

- ⊕ CABLE-TO-CABLE SPLICE
 - □ DROP SPLICE TO CCTV CABINET
 - □ DROP SPLICE TO SIGNAL CABINET
 - □ DROP SPLICE TO SIGNAL CABINET (SHARED SWITCH WITH CCTV)
 - □ DROP SPLICE TO BUILDING (STORE CABLE OUTSIDE BUILDING PER CL SHEET)
 - NEW FIBER-OPTIC CABLE
 - - - EXISTING FIBER-OPTIC CABLE
 - S### SPLICE NUMBER
 - B##### CITY SIGNAL INVENTORY NUMBER
 - 07-#### STATE SIGNAL INVENTORY NUMBER
 - CCTV ## CCTV ID
 - CABLE ID
- RING NUMBER
- | | |
|--------|---------|
| R16 | BL 1, 2 |
| R16+ | BL 3, 4 |
| 4 / 12 | |
- FIBER PAIRS ASSIGNED TO RING
- TOTAL FIBERS IN CABLE
- LIT FIBERS IN CABLE (PER THIS PROJECT)
- + DENOTES SECONDARY PATH
- FIBER BUFFER TUBES
- | | | |
|----|---|--------|
| BL | - | BLUE |
| OR | - | ORANGE |
| GR | - | GREEN |
| BR | - | BROWN |

NOTES:

- CABLE ROUTES AND SPLICE LOCATIONS SHOWN ON THIS SHEET ARE SHOWN SCHEMATICALLY AND NOT NECESSARILY AT THEIR EXACT LOCATIONS. SEE CABLE LAYOUT PLANS FOR EXACT LOCATIONS.
- CCTV 9 AND CCTV 11 TO BE REMOVED AND NOT SHOWN ON CABLE SCHEMATICS FOR CLARITY.
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(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Comms. Cable Schematics (4 of 4)		Burlington & Graham	
Division 7	Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT		
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES		
REVISIONS	INIT.	DATE	

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 040877

BRADFORD J. SLOCUM

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15/2018

DATE

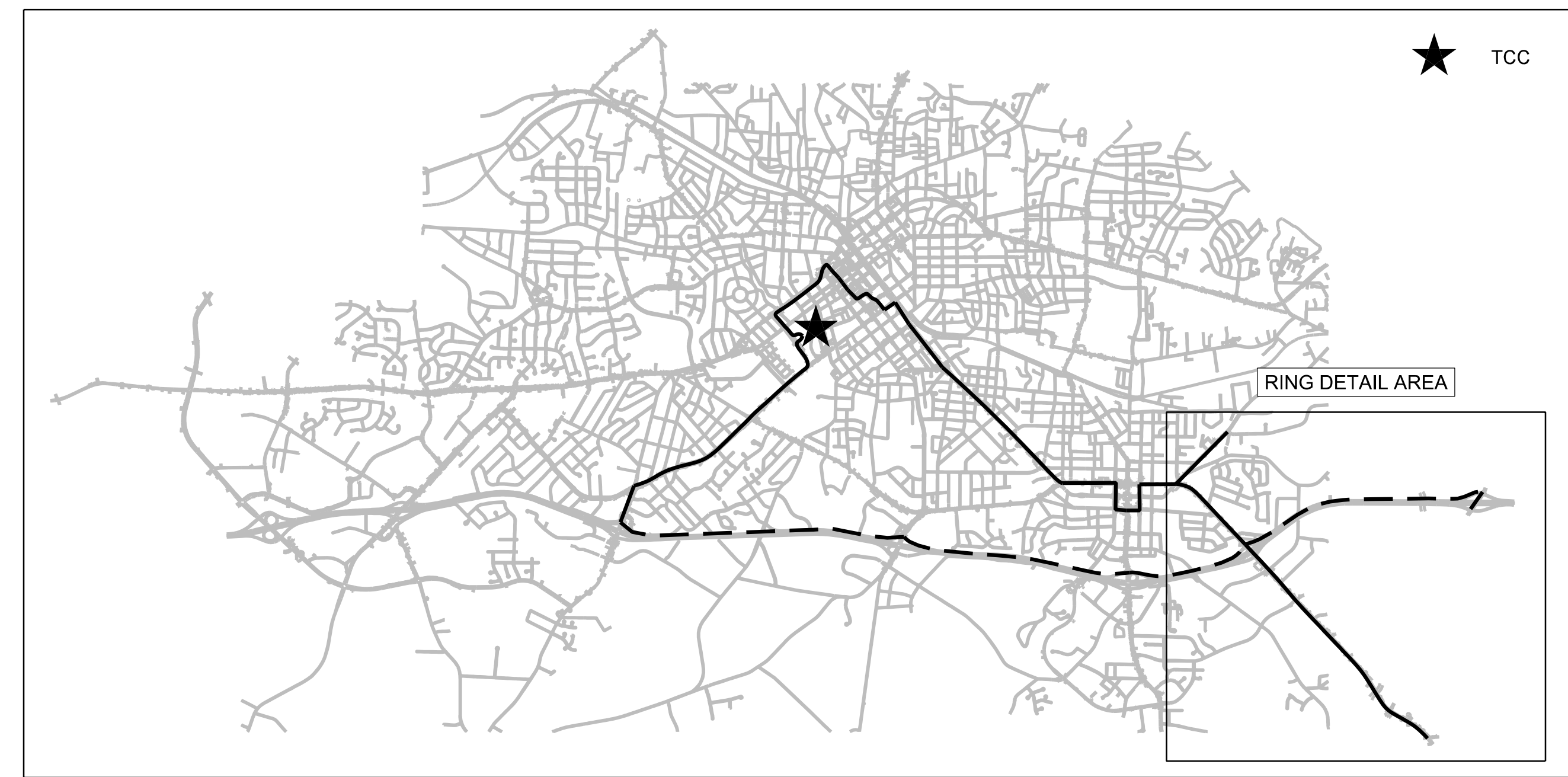
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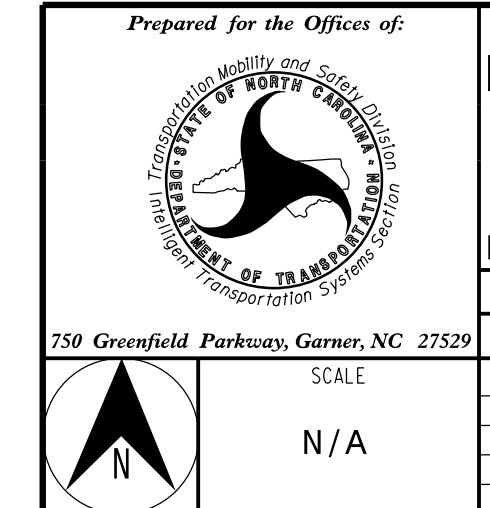
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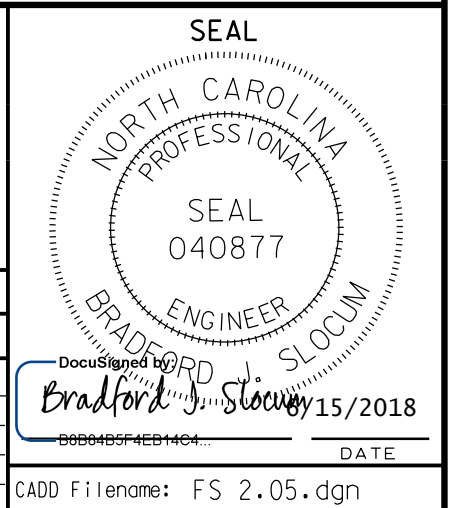
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

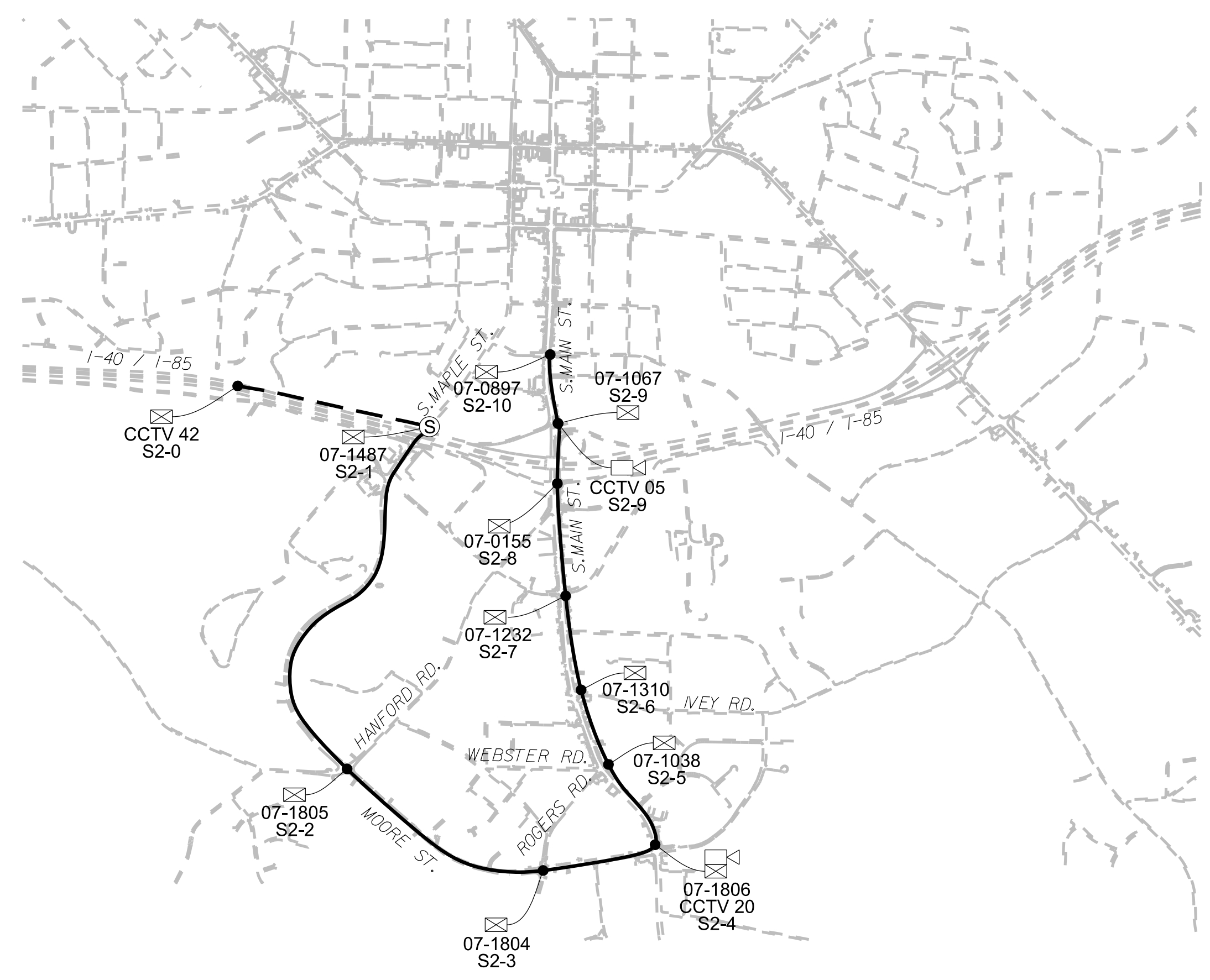
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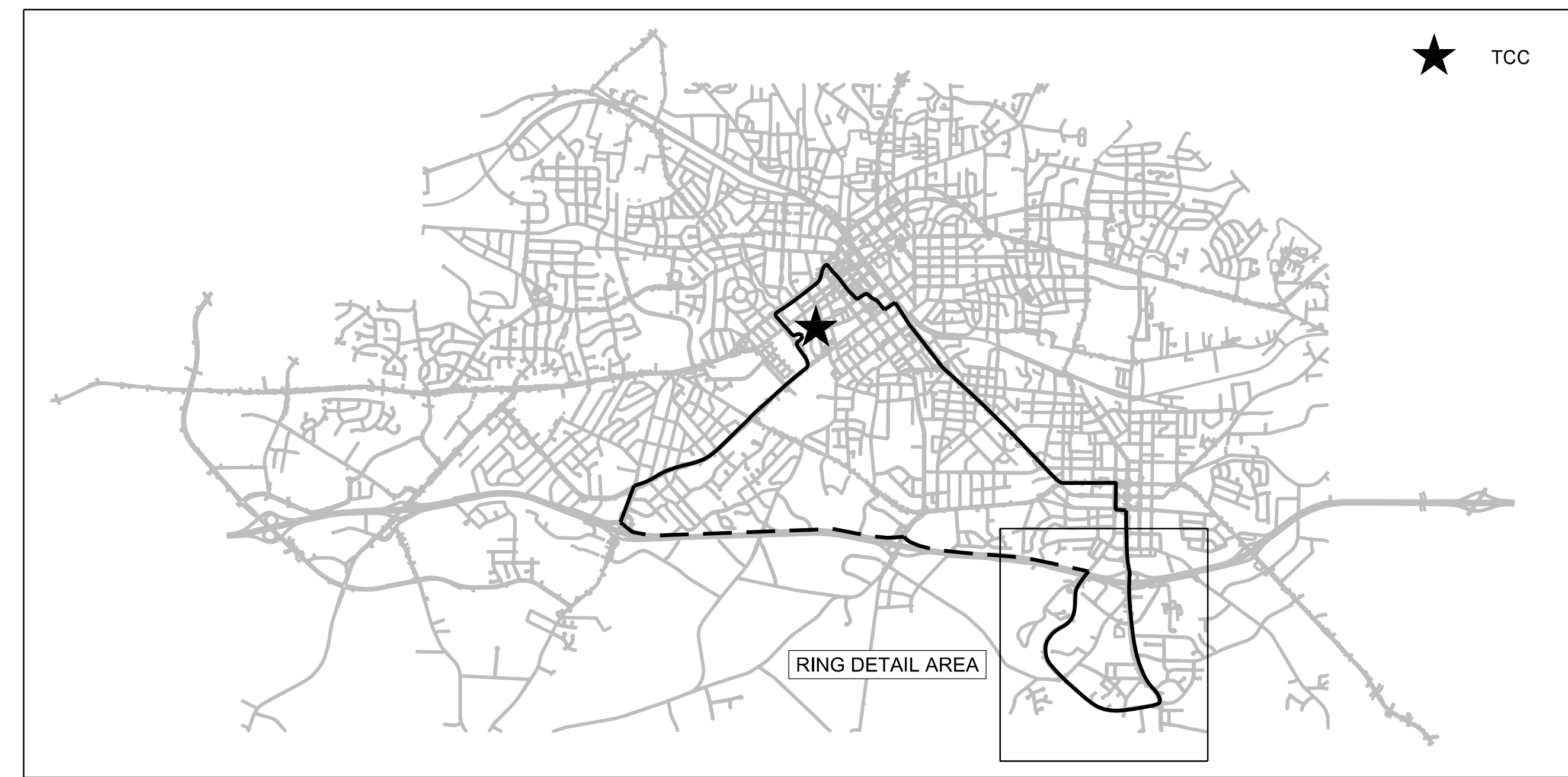
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 1)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE



RING 2 DETAIL




RING 2 OVERALL ROUTE



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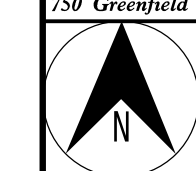
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

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UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

 750 Greenfield Parkway, Garner, NC 27529

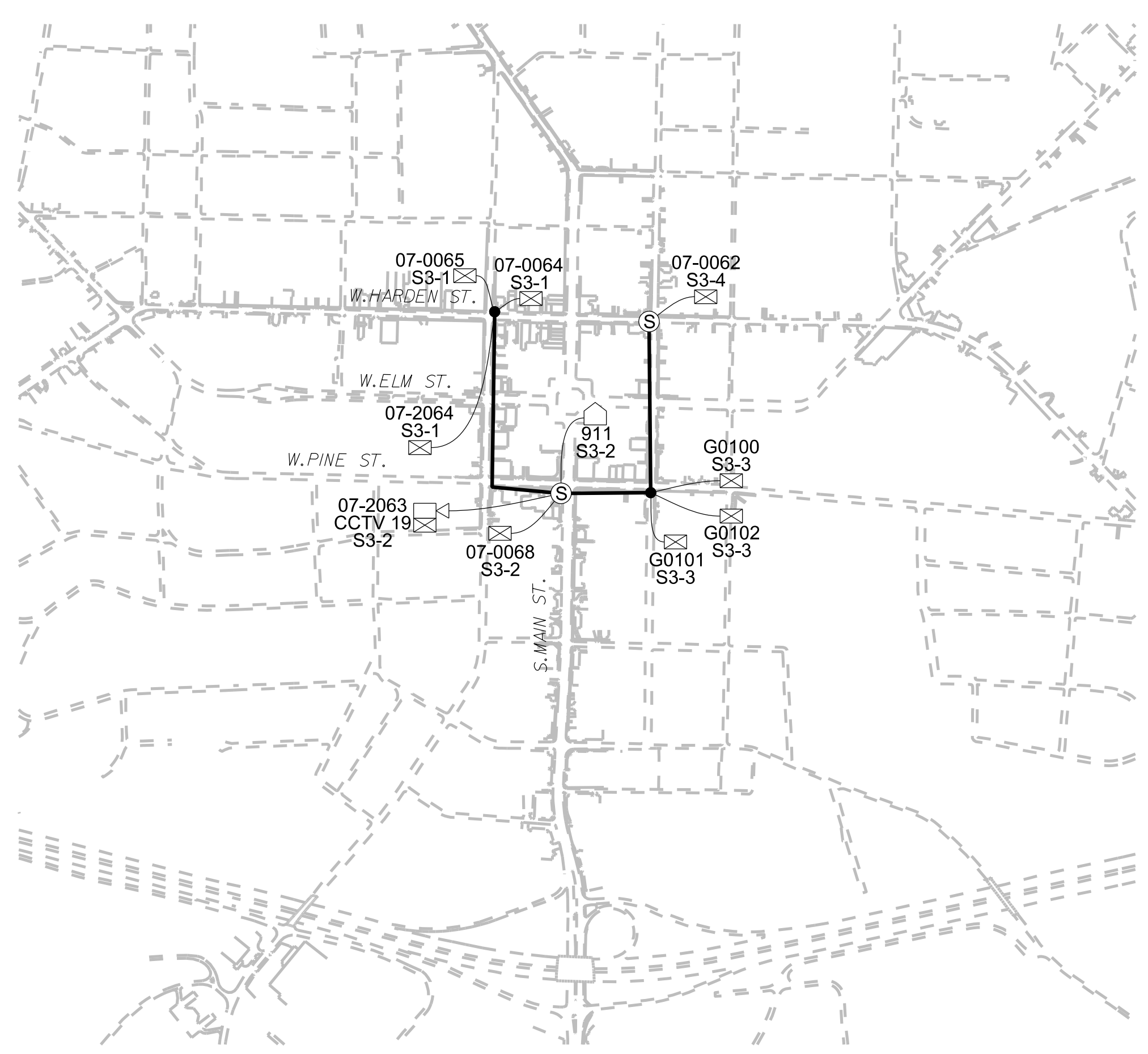
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Division 7	Alamance County	
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 040877
 ENGINEER
 BRADFORD J. SLOCUM
 15/2018
 DATE
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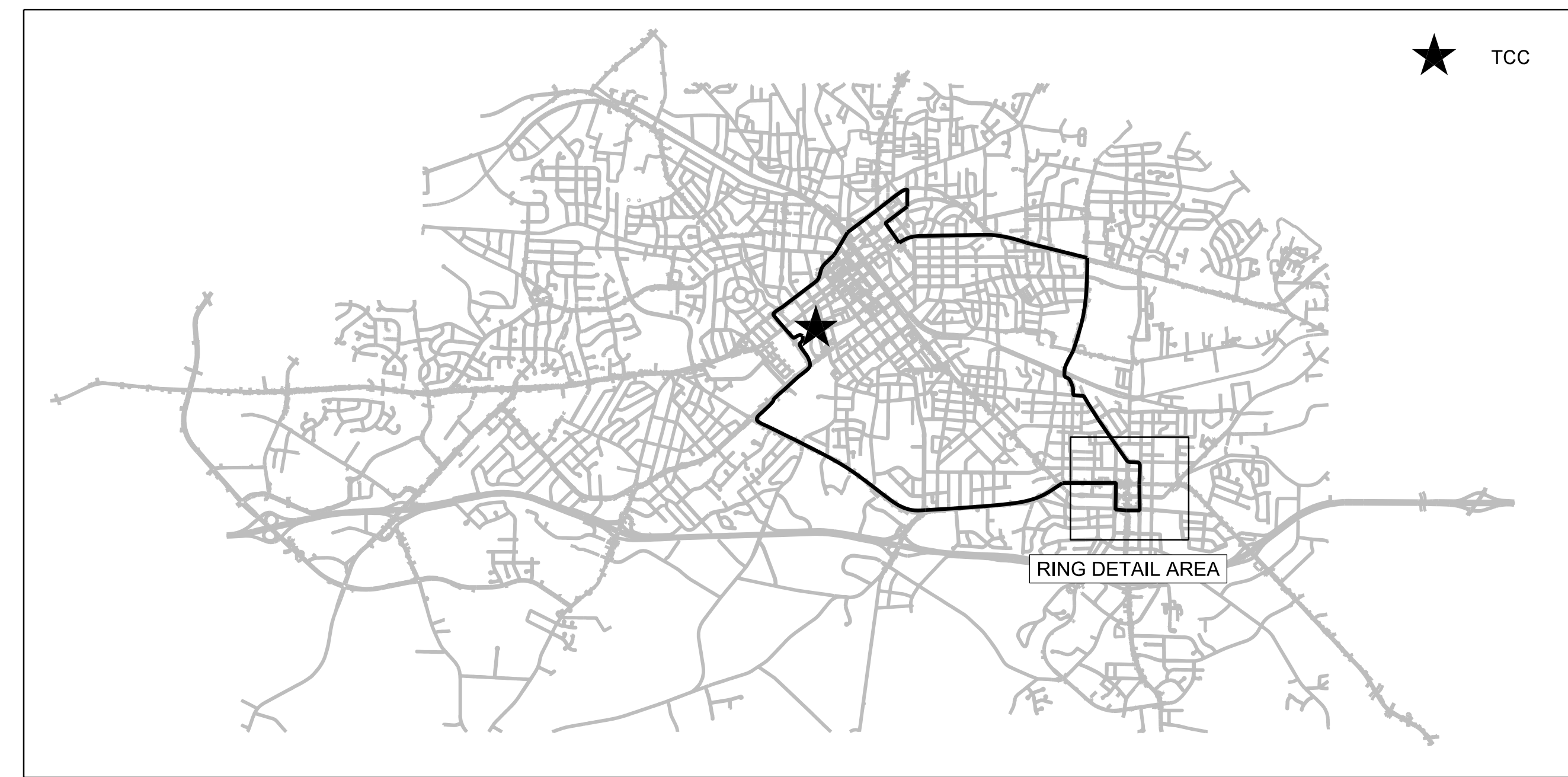


SCALE
N/A

RING 3 DETAIL



RING 3 OVERALL ROUTE



- NOTES:
- COUNTY 911 CENTER IS ON RING 21. CONNECTION SHOWN ON THIS SHEET AS ITS DROP CABLE SPLICES TO TRUNK CABLE AT S3-1. SEE FIBER-OPTIC RING SCHEMATICS (RINGS 21, 22, 23) FOR OVERALL RING ROUTE.

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

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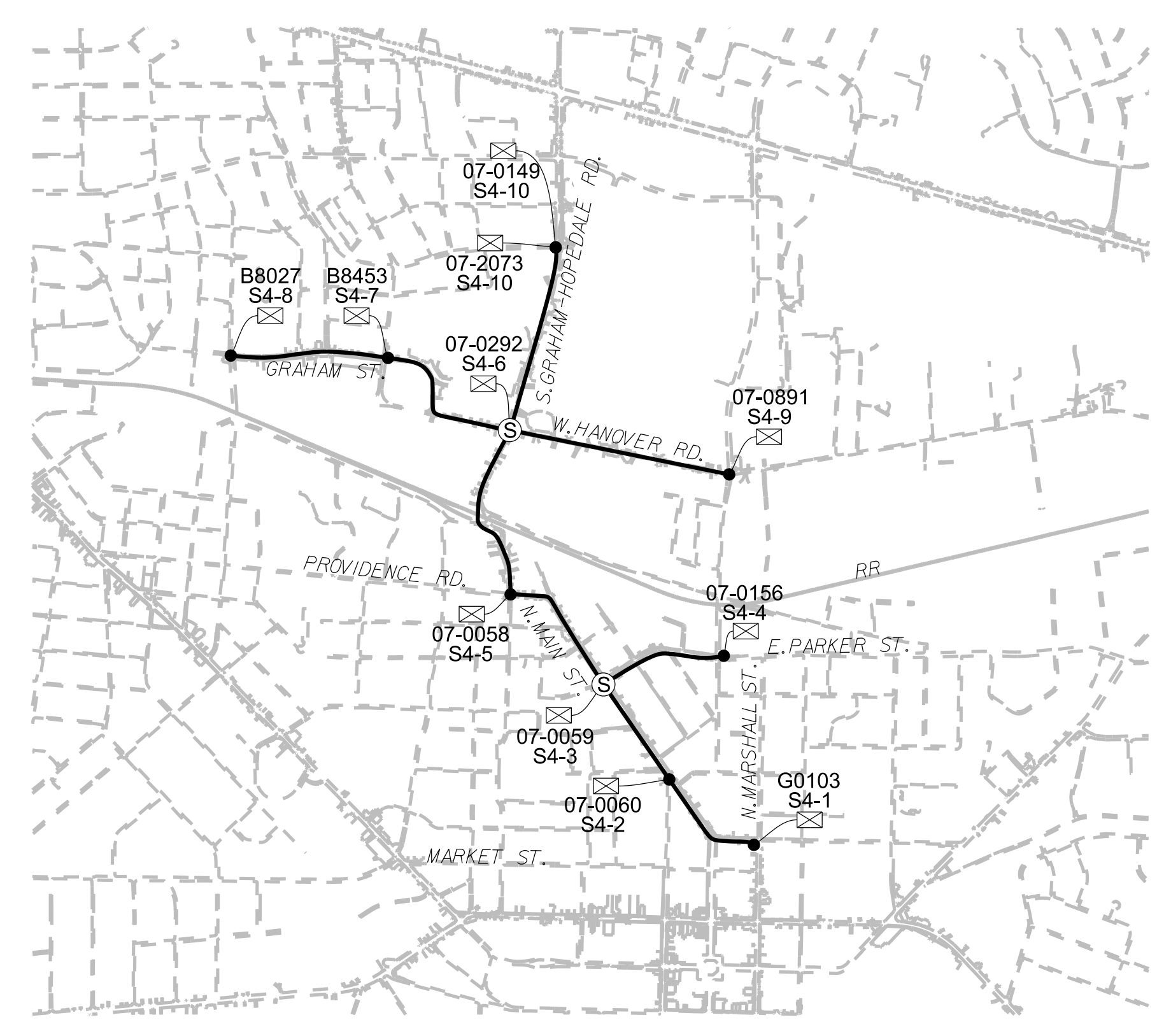
 750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 3)		Burlington & Graham
Division 7	Alamance County	
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

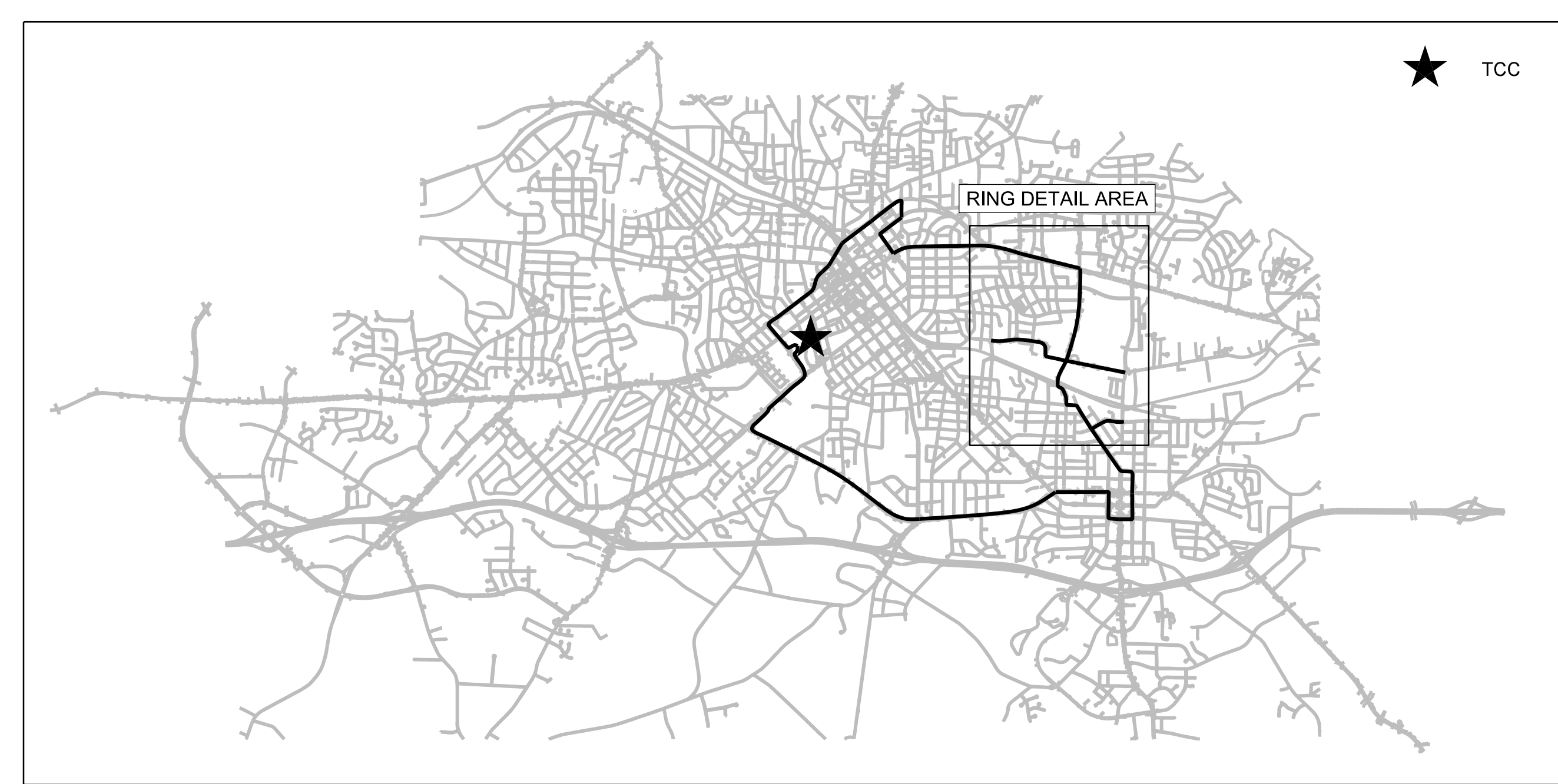
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 040877
 BRADFORD J. SLOCUM
 ENGINEER
 15/2018
 DATE

14 JUN 2018 10:06
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 SLOCUM33 AT LUS355433

RING 4 DETAIL



RING 4 OVERALL ROUTE



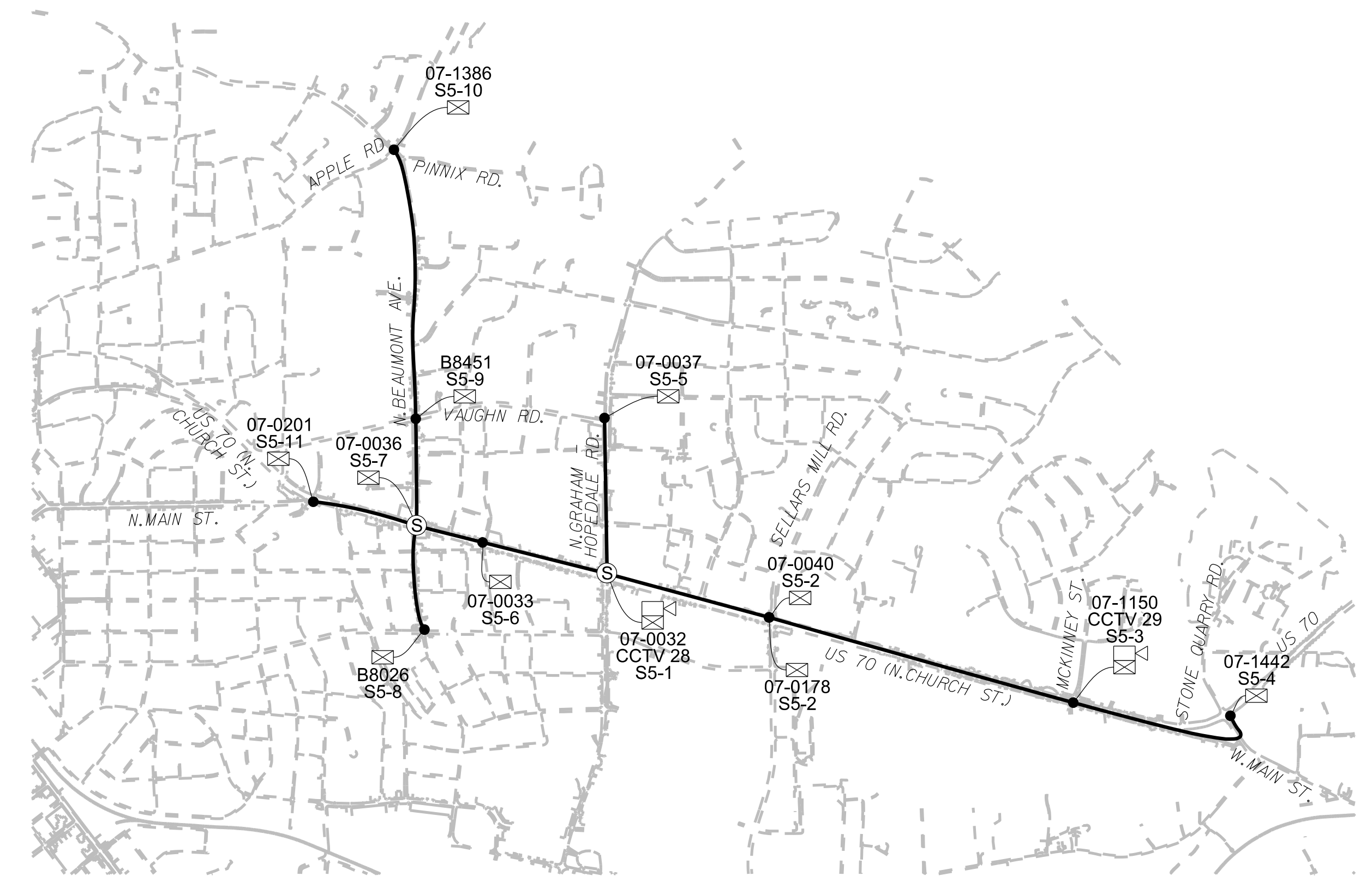
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

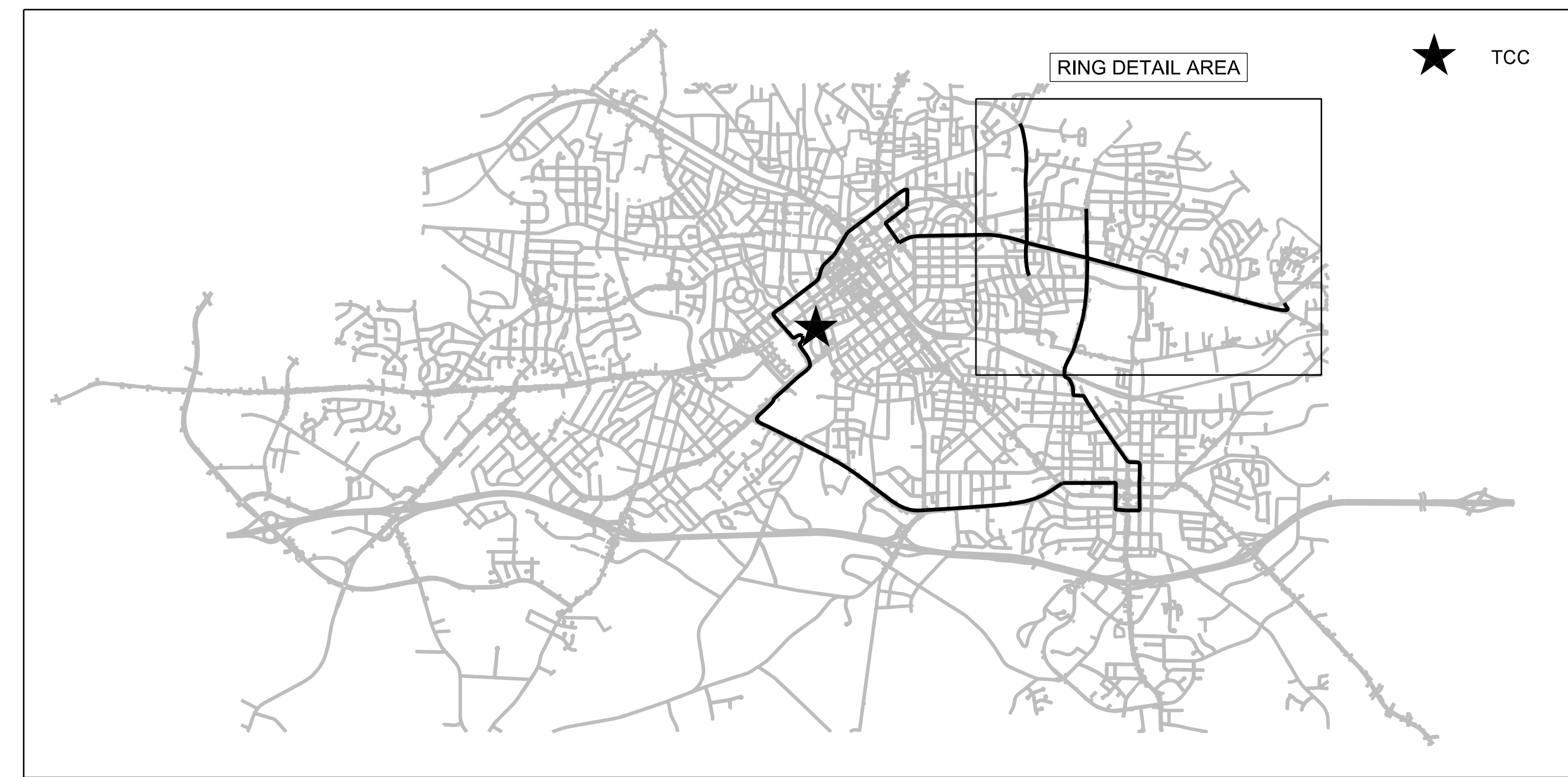
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

 Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 750 Greenfield Parkway, Garner, NC 27529	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 4)		 SEAL NORTH CAROLINA PROFESSIONAL SEAL 040877 ENGINEER BRADFORD J. SLOCUM 15/2018
	Division 7 PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	Burlington & Graham Alamance County REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	

RING 5 DETAIL



RING 5 OVERALL ROUTE



14 JUN 2018 10:07
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S:\033633 AT_LUS355433

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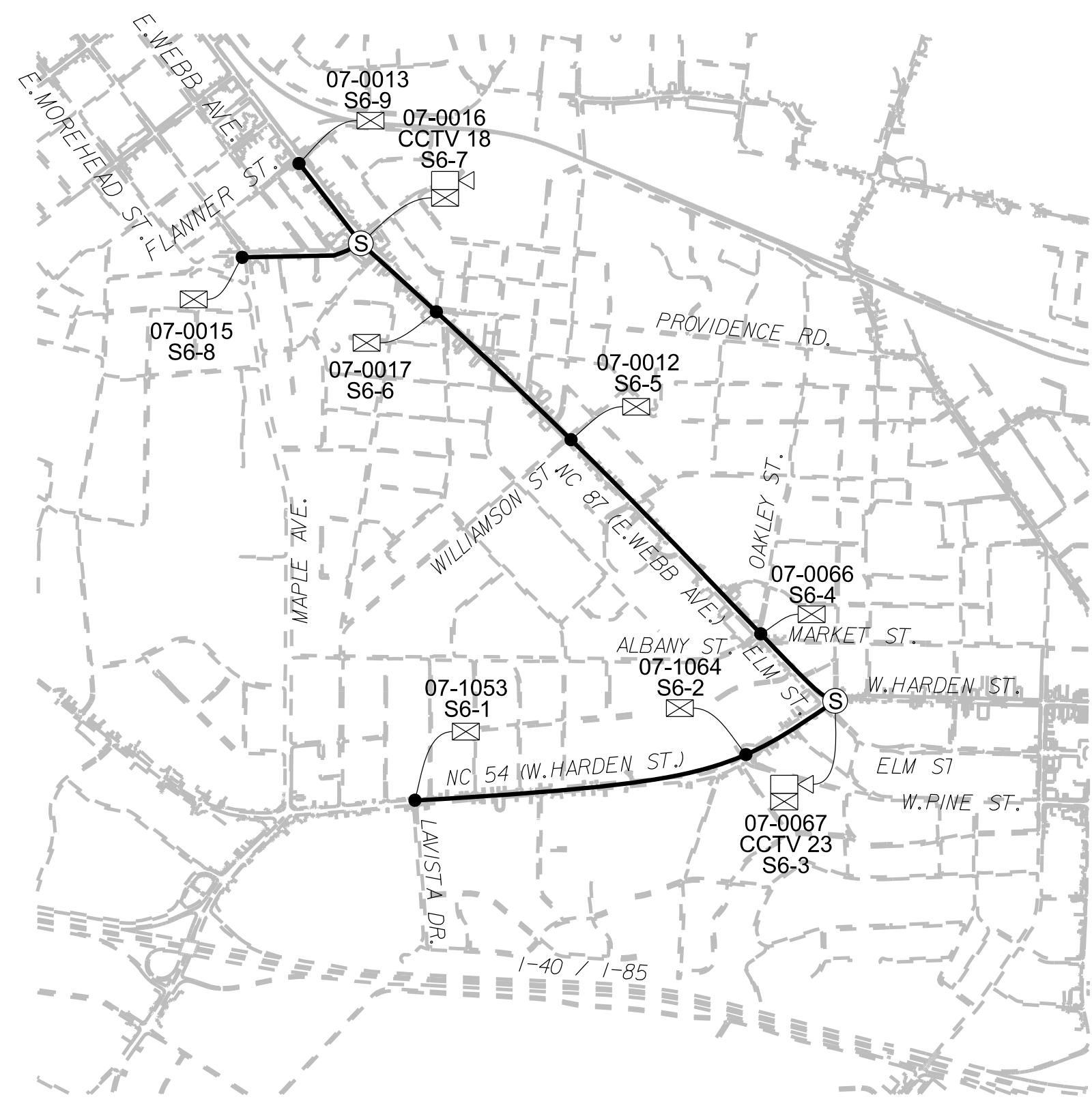
750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 5)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

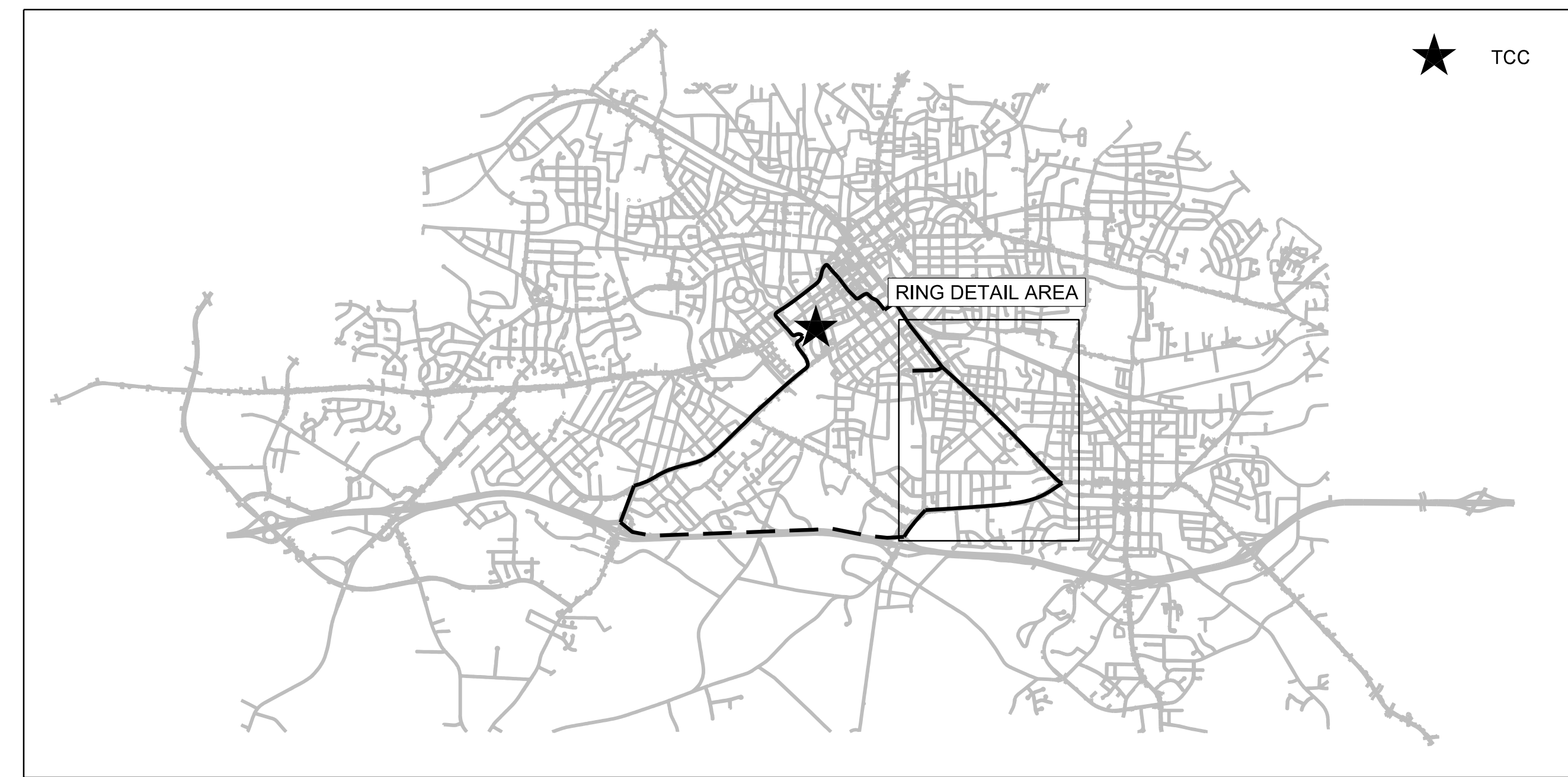
SEAL

BRADFORD J. SLOCUM
ENGINEER
15/2018
DATE

RING 6 DETAIL



RING 6 OVERALL ROUTE



14 JUN 2018 10:07
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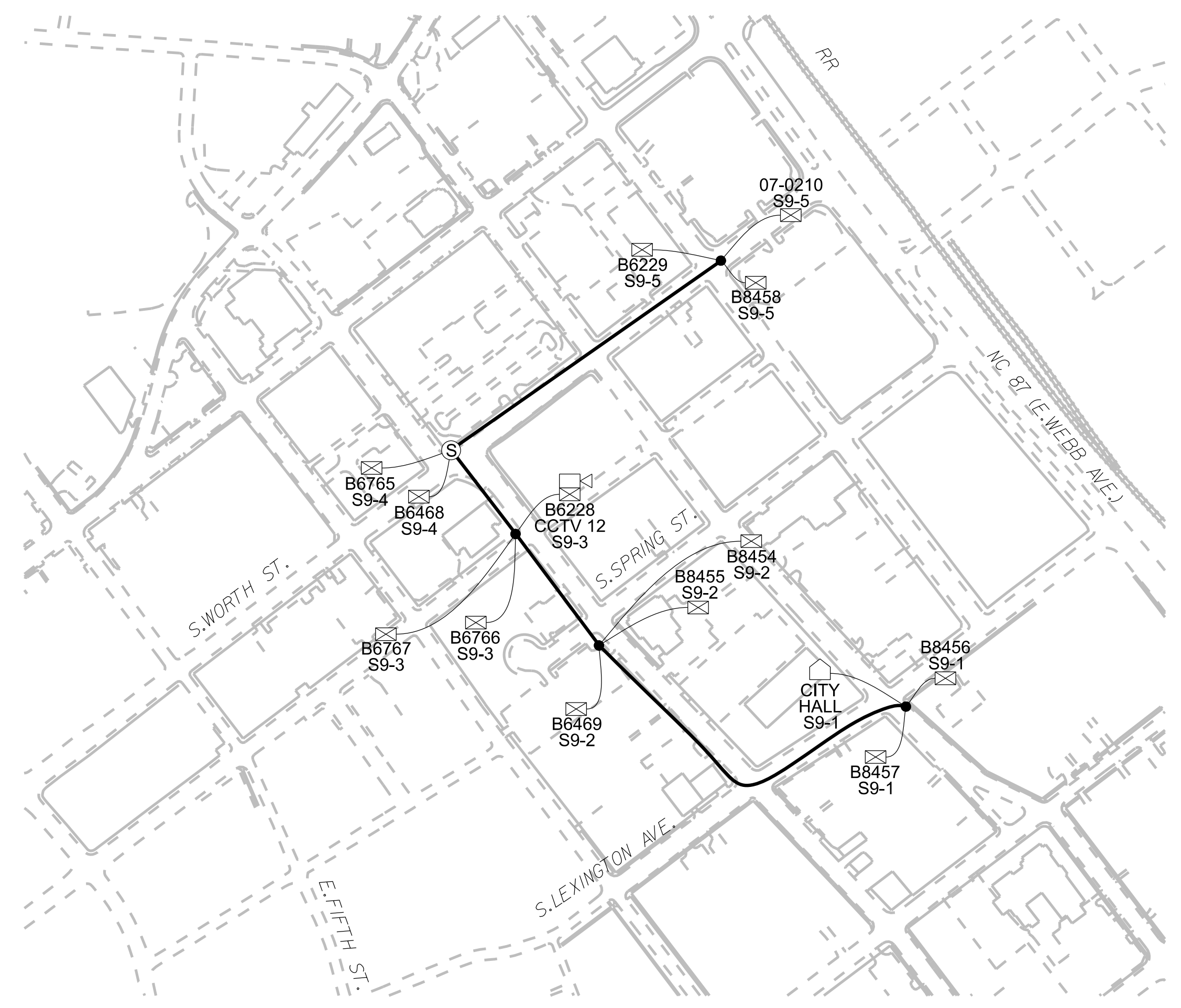
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 6)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

SEAL

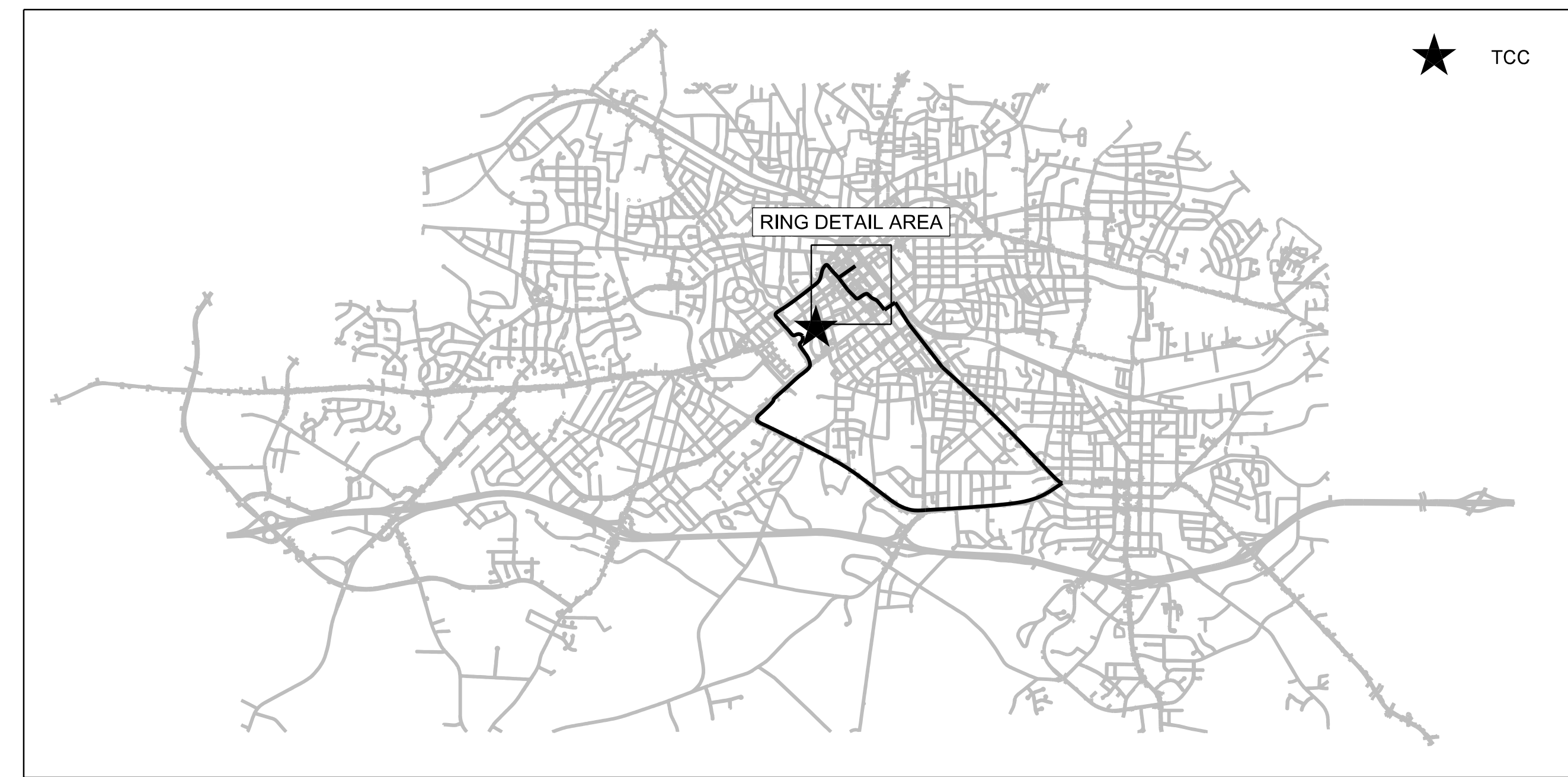
BRADFORD J. SLOCUM
ENGINEER
15/2018
DATE

CADD File name: FS 2.10.dgn

RING 9 DETAIL



RING 9 OVERALL ROUTE



- NOTES:
- BURLINGTON CITY HALL IS ON RING 23. CONNECTION SHOWN ON THIS SHEET AS ITS DROP CABLE SPLICES TO TRUNK CABLE AT S9-1. SEE FIBER-OPTIC RING SCHEMATICS (RINGS 21, 22, 23) FOR OVERALL RING ROUTE.

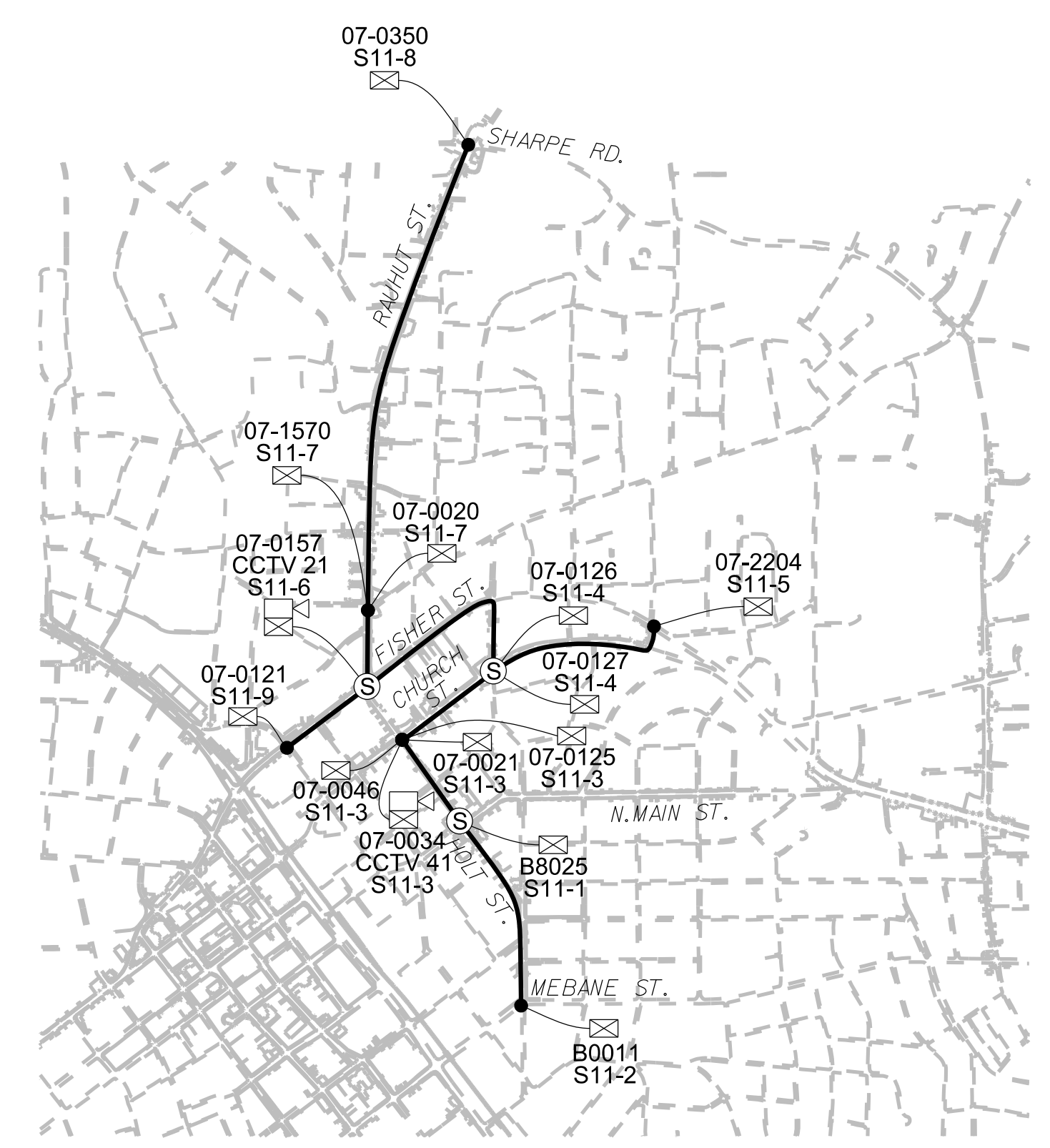
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEEES #F-0326

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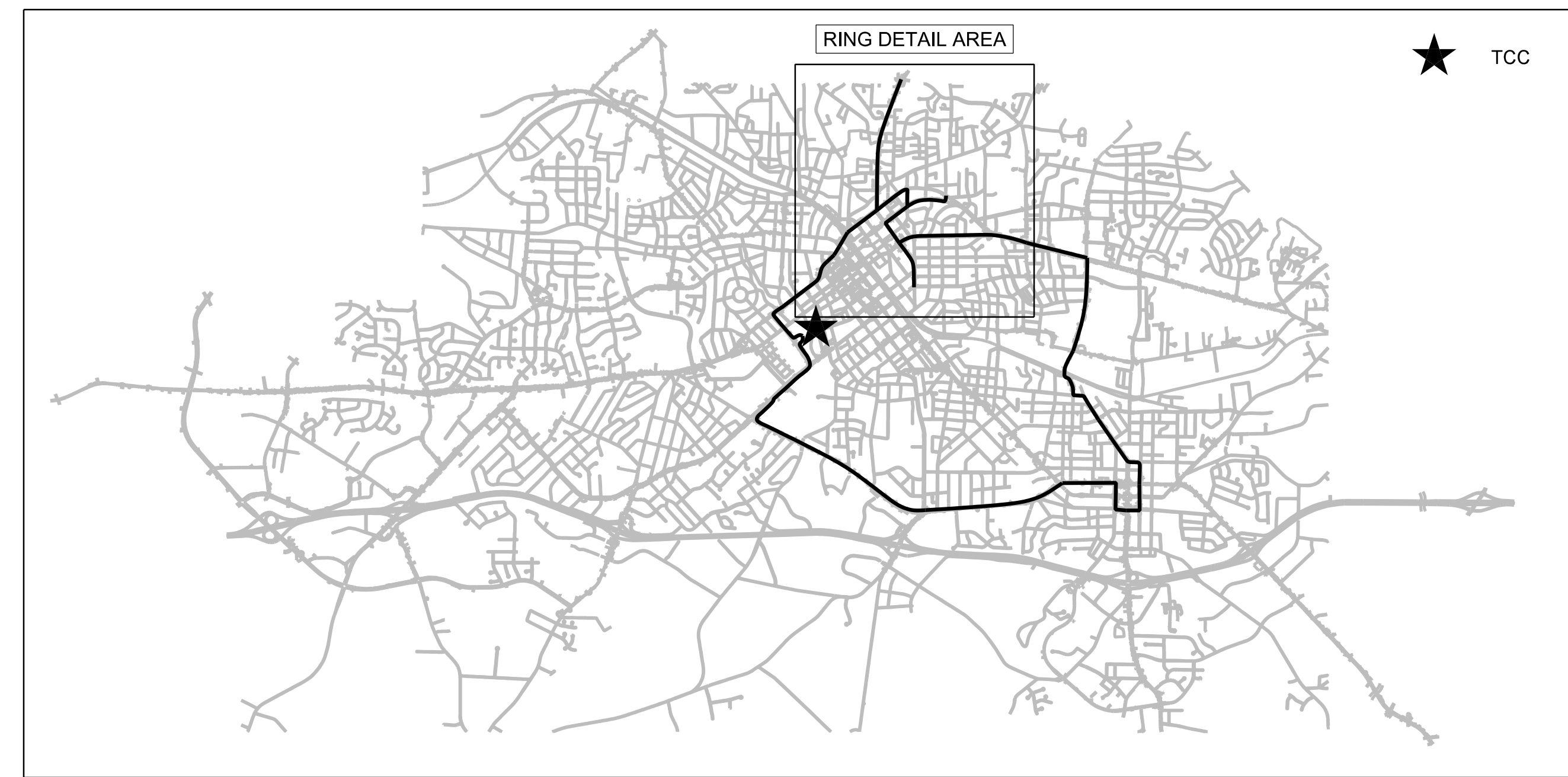
	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 9)		
	Division 7 Alameda County Burlington & Graham	Prepared by: BJ SLOCUM Reviewed by: DL JONES	
PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM REVISIONS: _____ SCALE: N/A	REVIEWED BY: HA BADGETT REVISIONS: _____ INIT.: _____ DATE: _____	DATE: 15/2018 DATE: _____ DATE: _____	SEAL NORTH CAROLINA PROFESSIONAL SEAL 040877 ENGINEER Bradford J. Slocum 15/2018 DATE

14 JUN 2018 10:09
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 SLOCUMS AT LUS355433

RING 11 DETAIL



RING 11 OVERALL ROUTE



14 JUN 2018 10:10
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SEAL
040877

ENGINEER
BRADFORD J. SLOCUM

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Bradford J. Slocum 15/2018
DATE

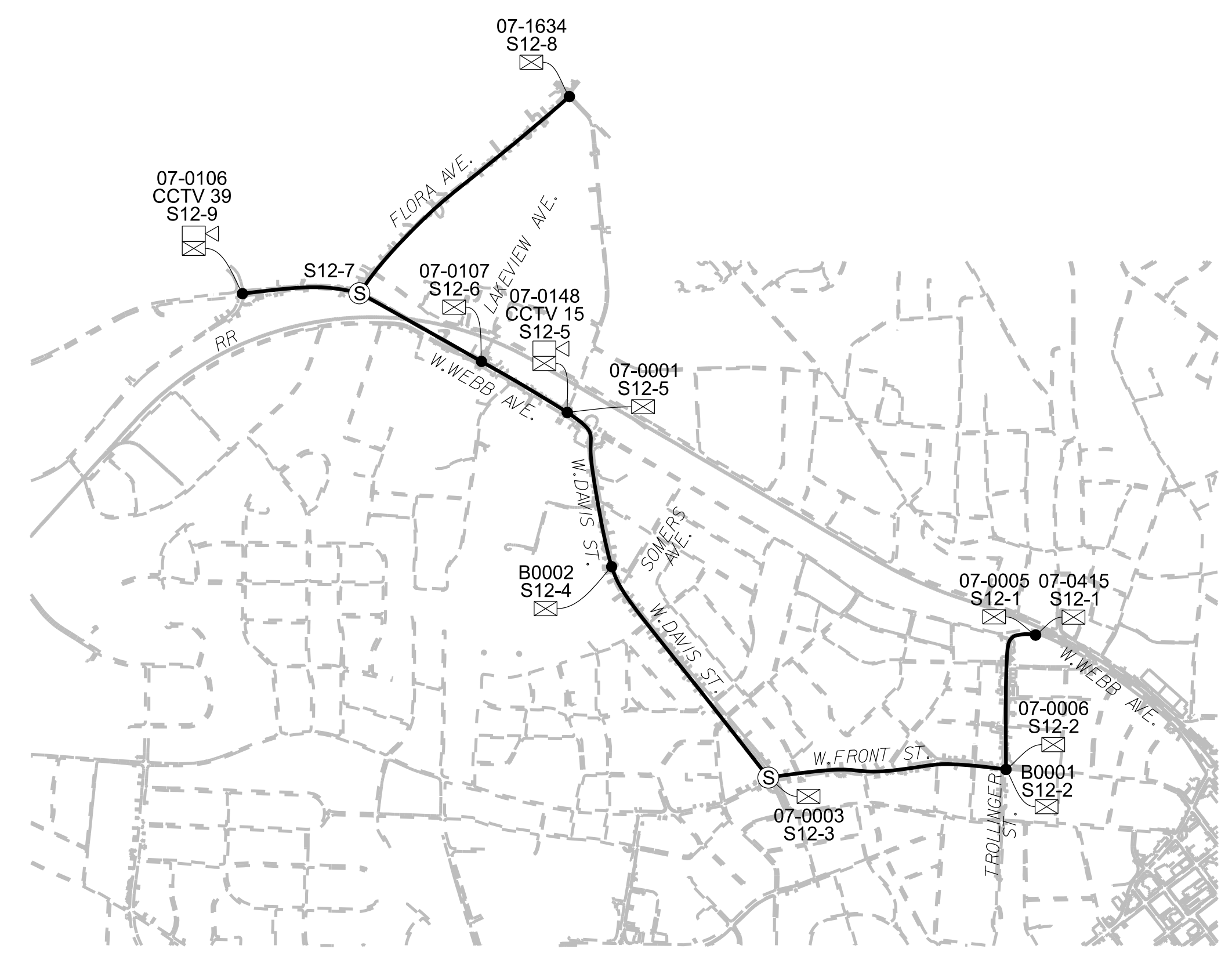
CADD File name: FS 2.15.dgn

Prepared for the Offices of:		Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 11)	
Division 7		Burlington & Graham	
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT		
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES		
REVISIONS	INIT.	DATE	

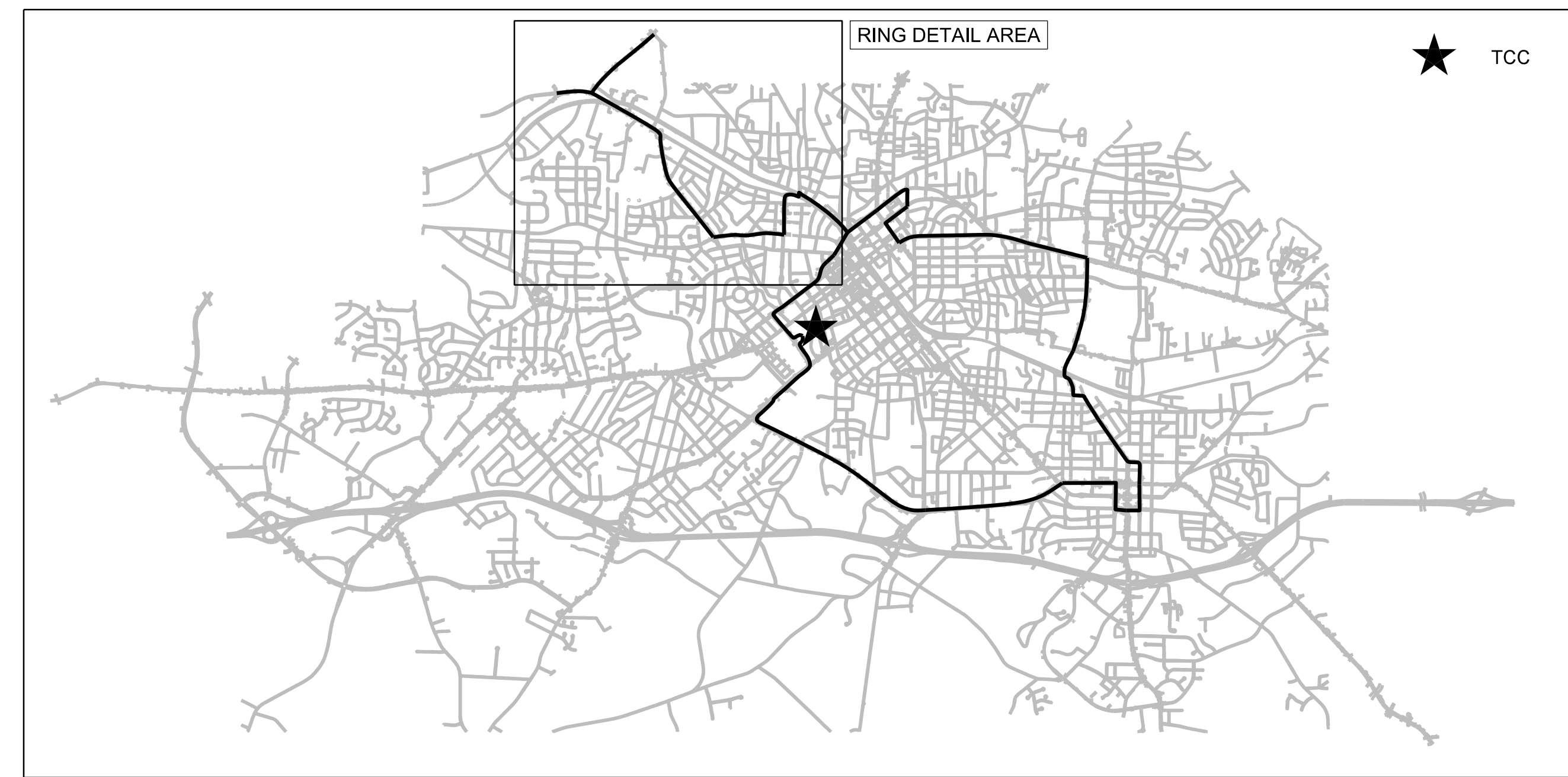
750 Greenfield Parkway, Garner, NC 27529

SCALE
N/A

RING 12 DETAIL



RING 12 OVERALL ROUTE



14 JUN 2018 10:10
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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

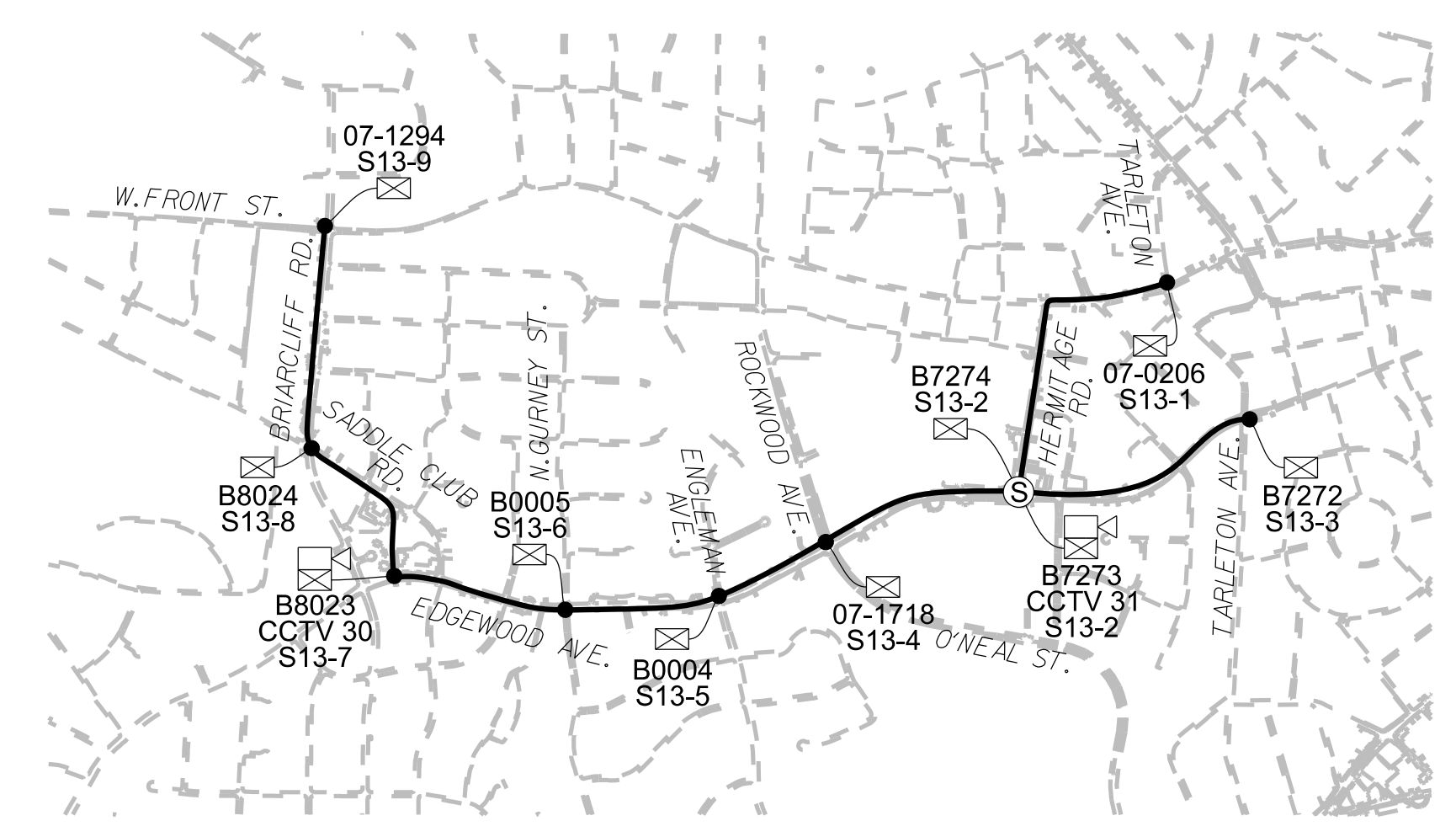
**DOCUMENT NOT CONSIDERED FINAL
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 Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 750 Greenfield Parkway, Garner, NC 27529	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 12) Division 7 Alameda County Burlington & Graham		 BRADFORD J. SLOCUM ENGINEER 15/2018
	PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	

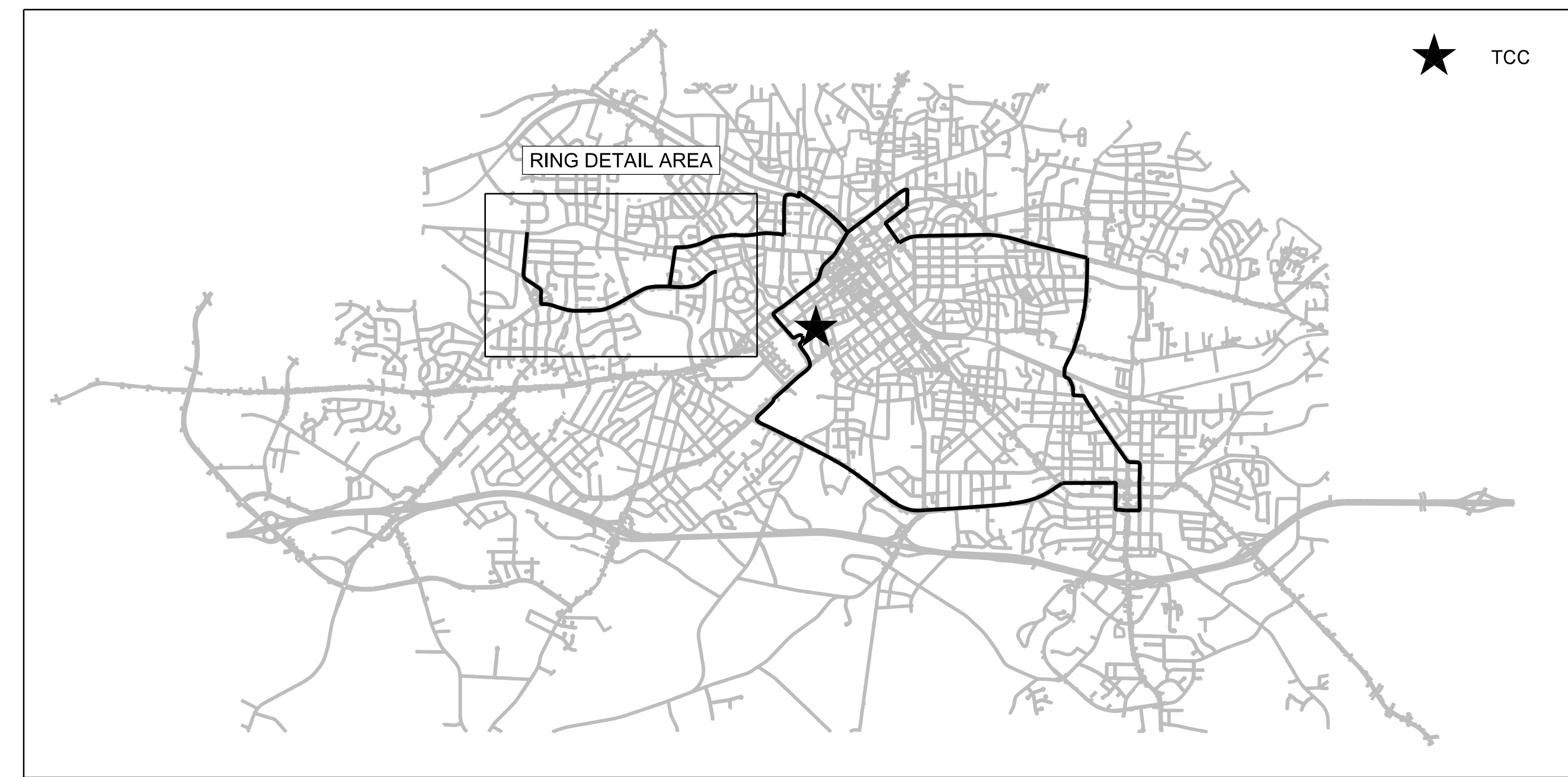
SCALE: N/A

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RING 13 DETAIL




RING 13 OVERALL ROUTE



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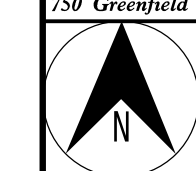
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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Prepared for the Offices of:

 DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 750 Greenfield Parkway, Garner, NC 27529

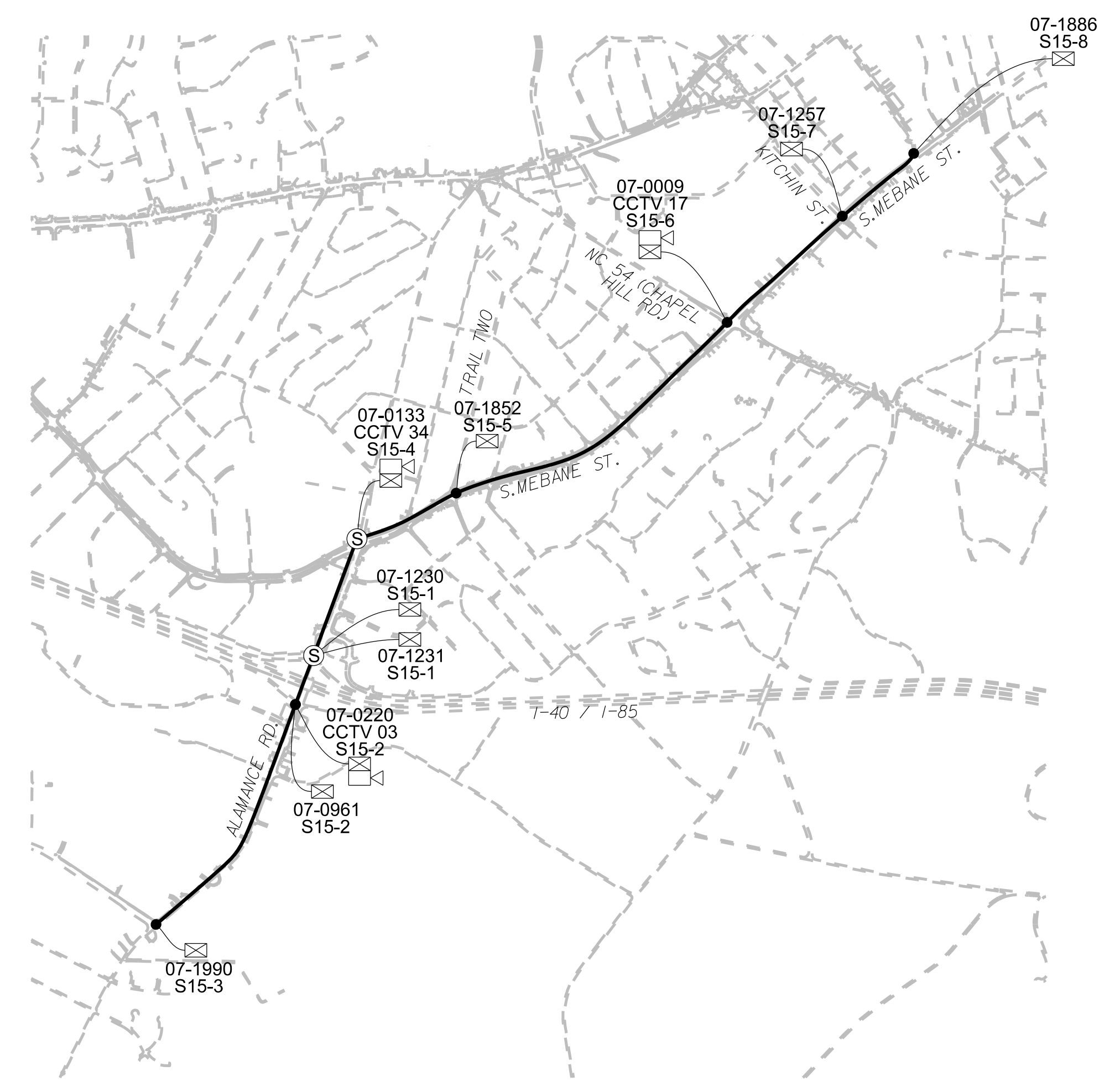
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 13)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

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 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 040877
 ENGINEER
 BRADFORD J. SLOCUM
 15/2018
 DATE
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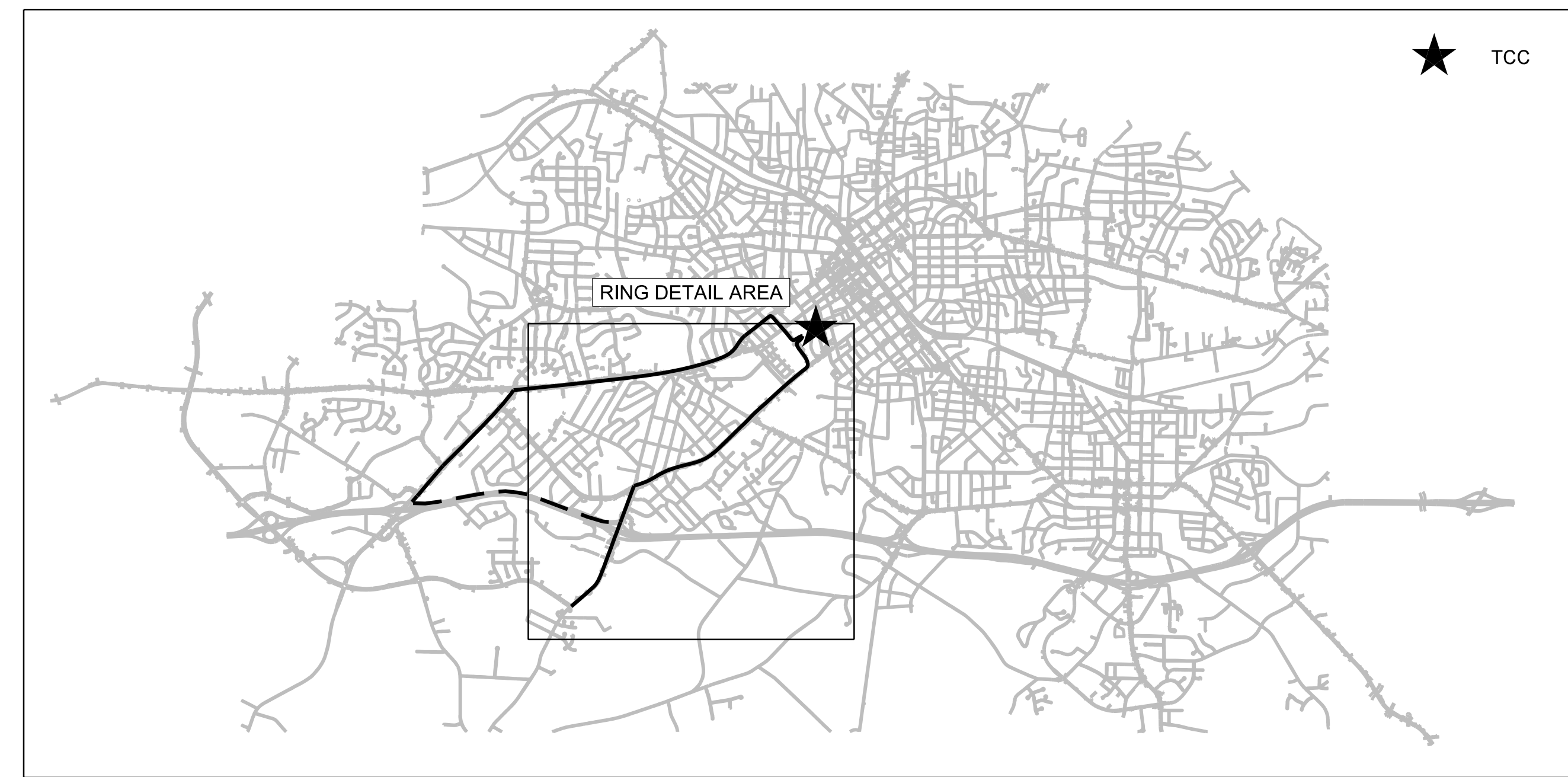


SCALE
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RING 15 DETAIL



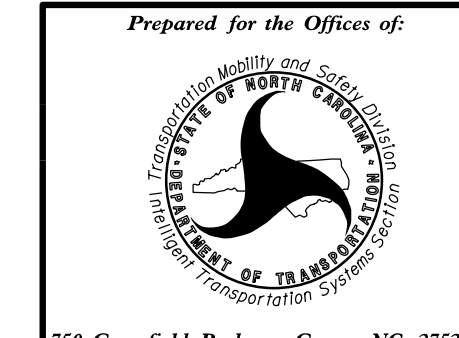
RING 15 OVERALL ROUTE



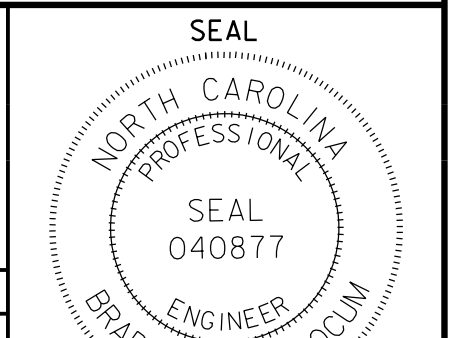
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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Burlington-Graham Signal System
Fiber-Optic Ring Schematics
(Ring 15)
Division 7 Alamance County Burlington & Graham

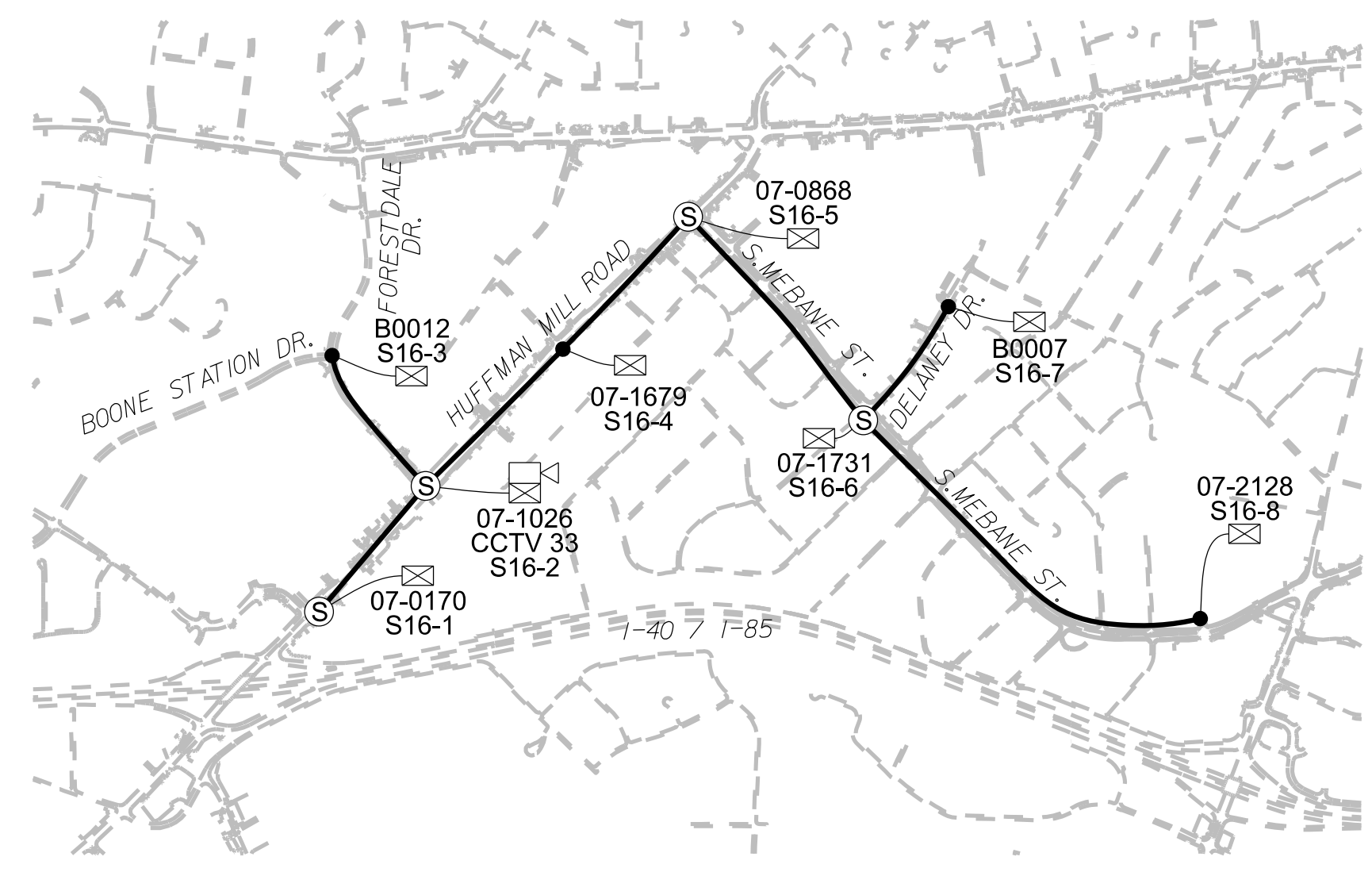


750 Greenfield Parkway, Garner, NC 27529
SCALE: N/A

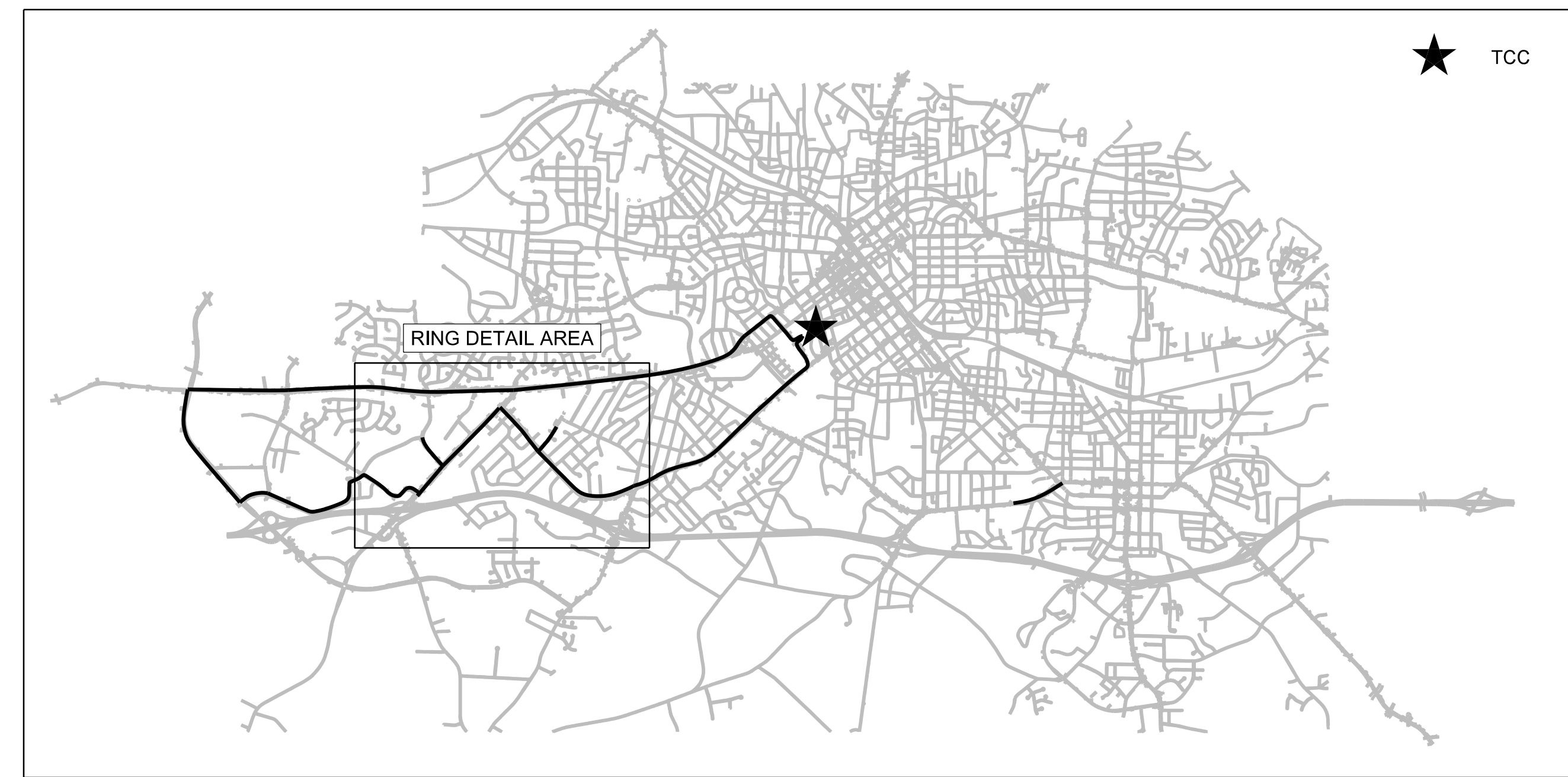
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES
REVISIONS	INIT. DATE

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Bradford J. Slocum 15/2018
DATE

RING 16 DETAIL




RING 16 OVERALL ROUTE



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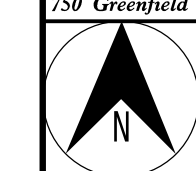
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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 DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 750 Greenfield Parkway, Garner, NC 27529

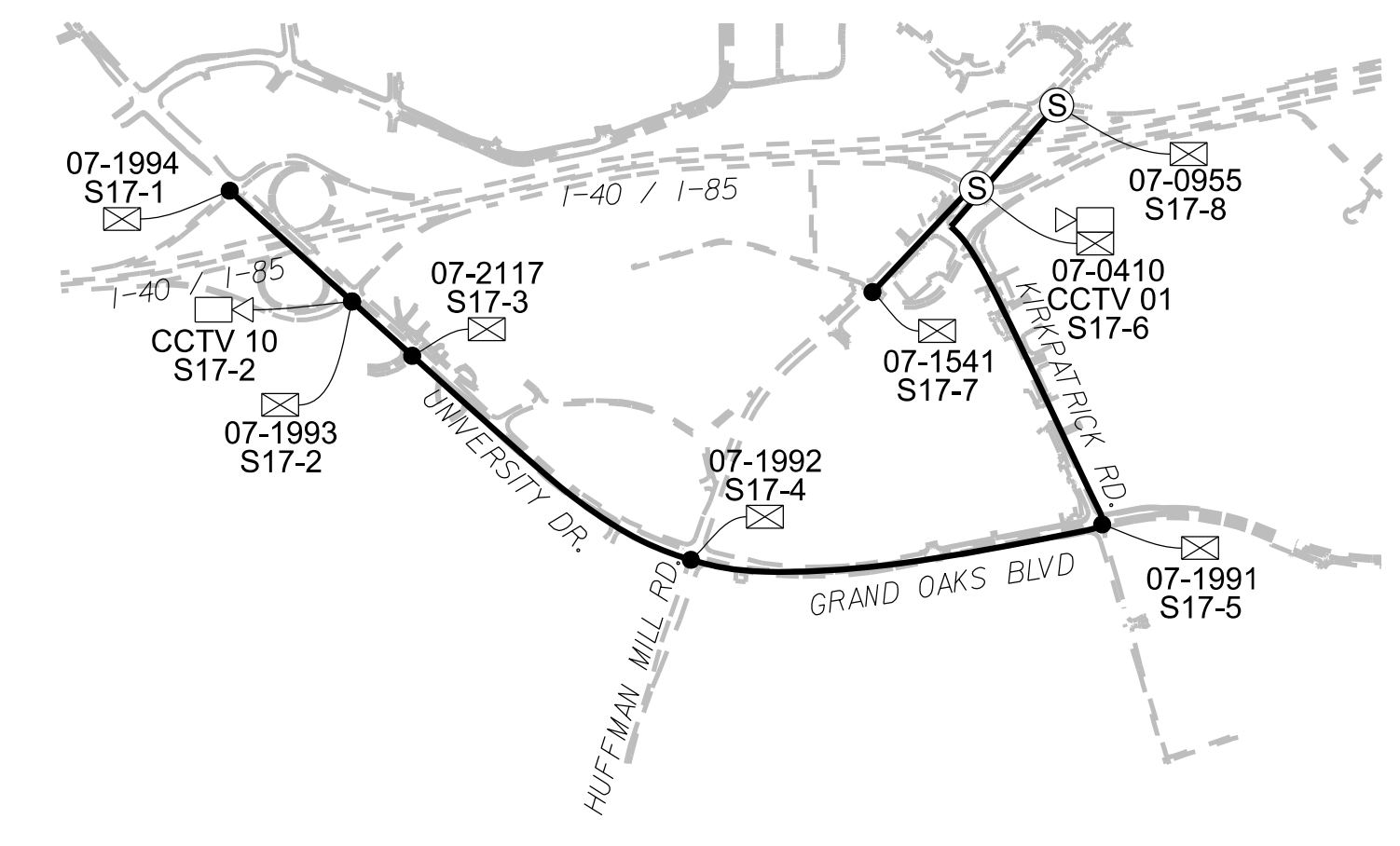
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 16)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

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 DATE
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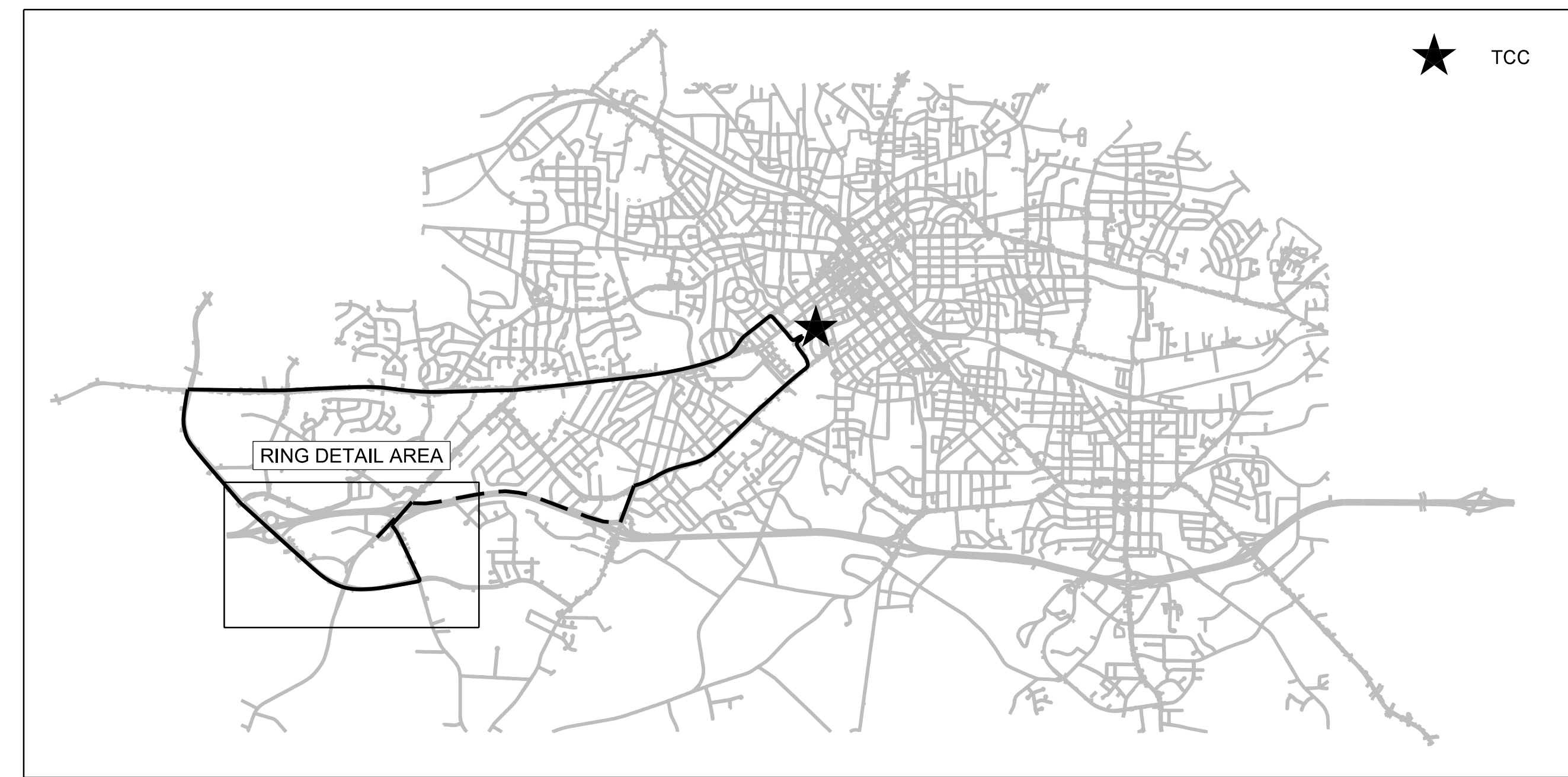


SCALE
N/A

RING 17 DETAIL



RING 17 OVERALL ROUTE



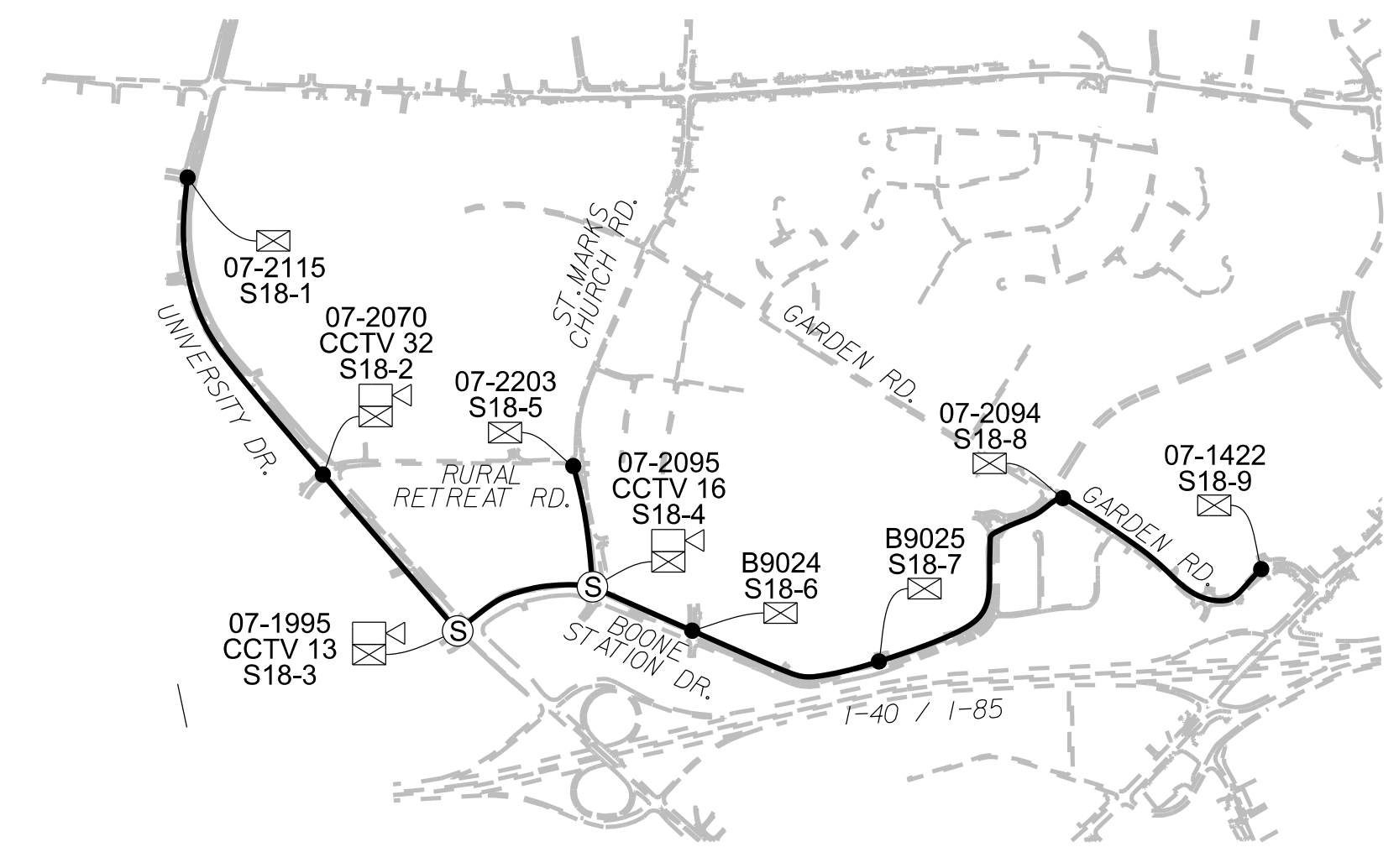
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBES #F-0326

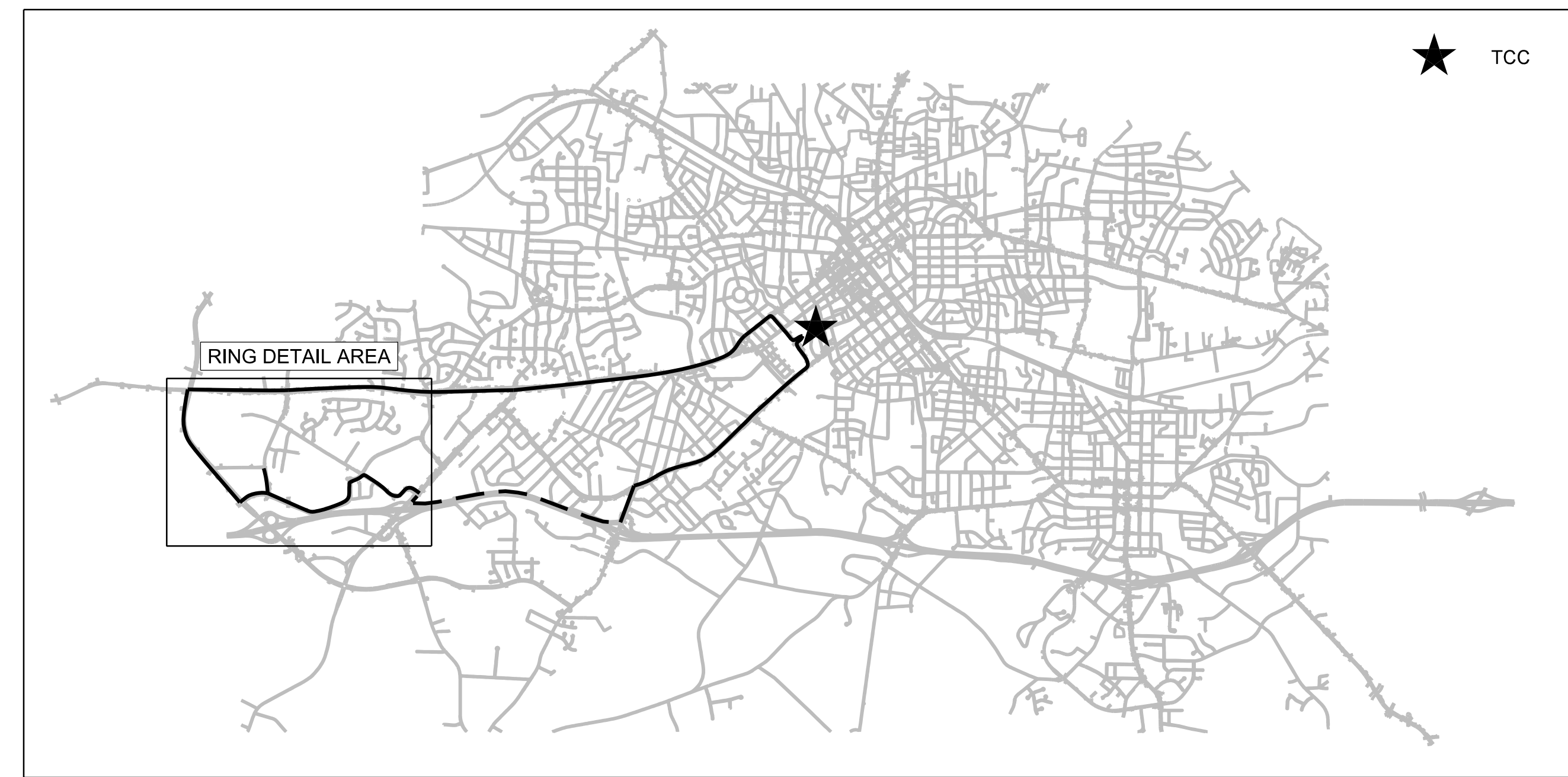
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	Division 7 PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	Burlington & Graham Alamance County REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	

RING 18 DETAIL



RING 18 OVERALL ROUTE



14 JUN 2018 10:16 D:\projects\proj\100056469 U-6015 B-C Sig Sys\Task 11_Comms\FS 2.22.dgn S:\033633 AT LUS355433

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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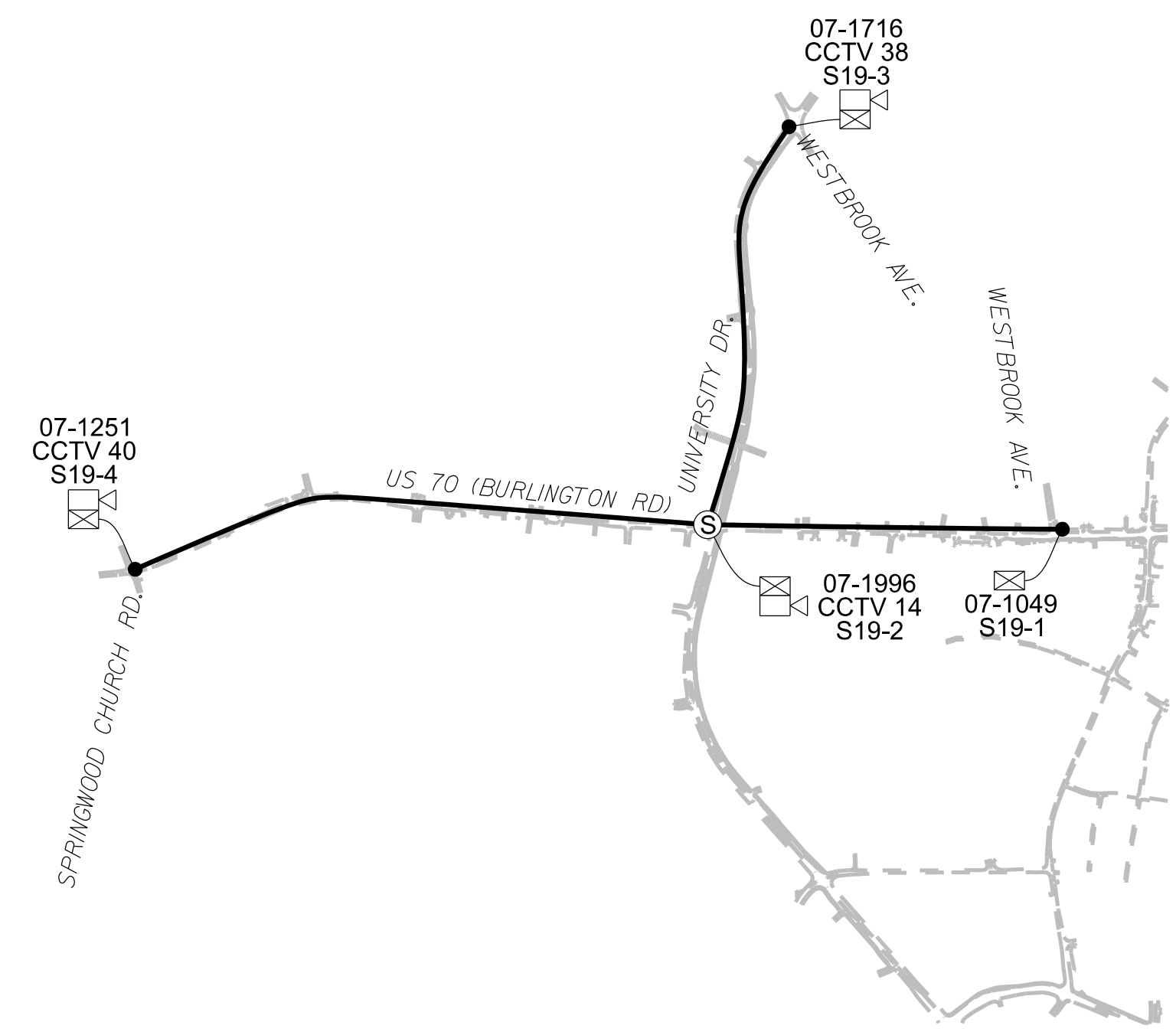
Prepared for the Offices of:

 750 Greenfield Parkway, Garner, NC 27529

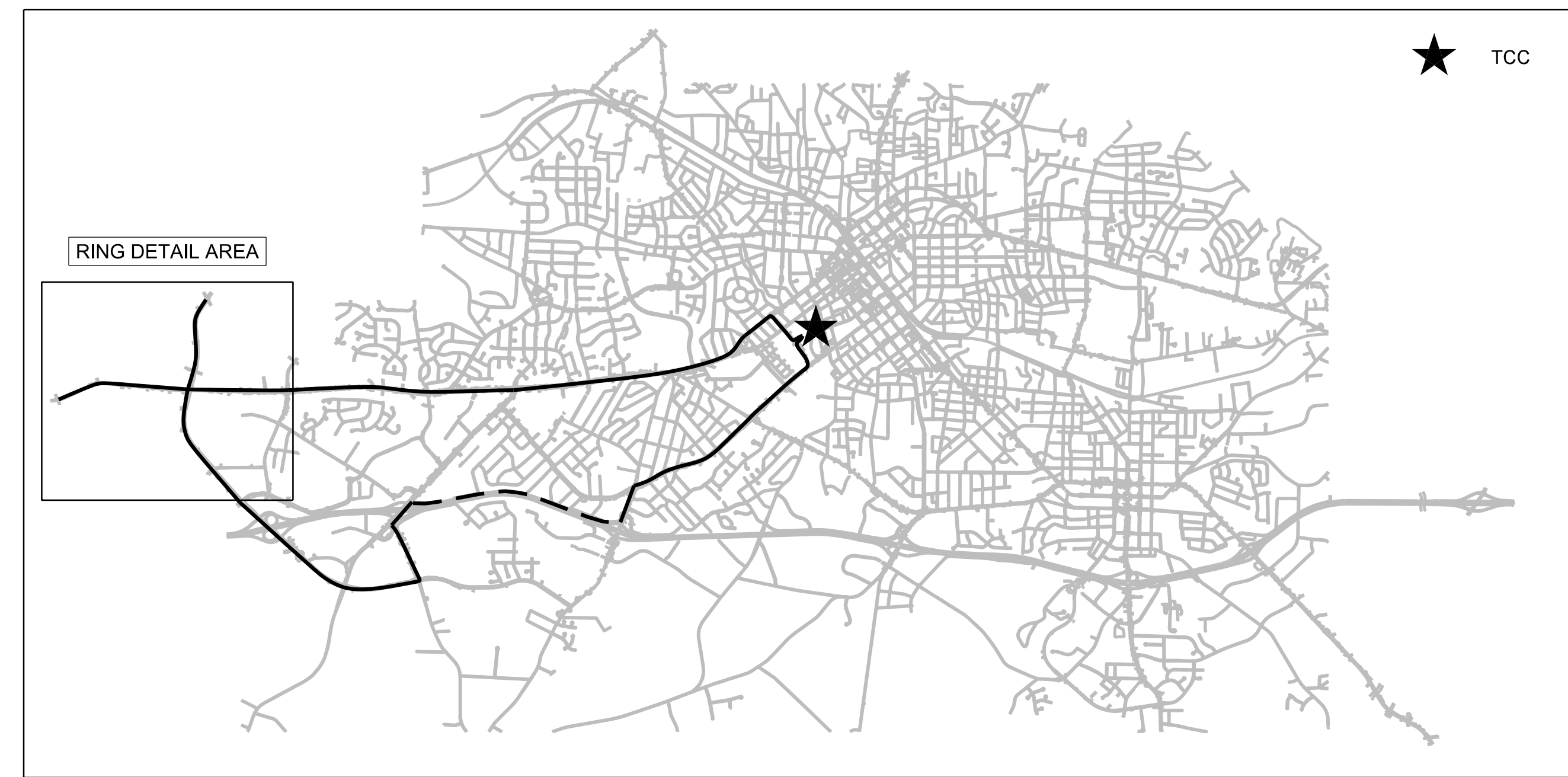
Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 18)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

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 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 040877
 BRADFORD J. SLOCUM
 ENGINEER
 15/2018
 DATE

RING 19 DETAIL



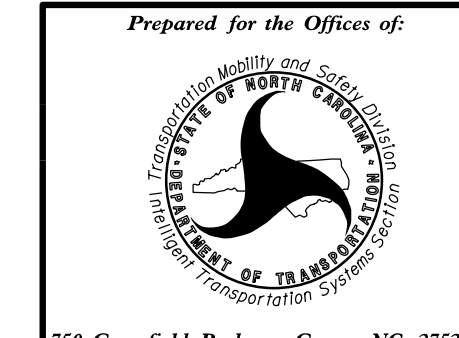
RING 19 OVERALL ROUTE



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SLOCUM AT LUS355433

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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750 Greenfield Parkway, Garner, NC 27529
SCALE: N/A

Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 19)		Burlington & Graham
Division 7 Alamance County		
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT	
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES	
REVISIONS	INIT.	DATE

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NORTH CAROLINA
PROFESSIONAL
SEAL
040877

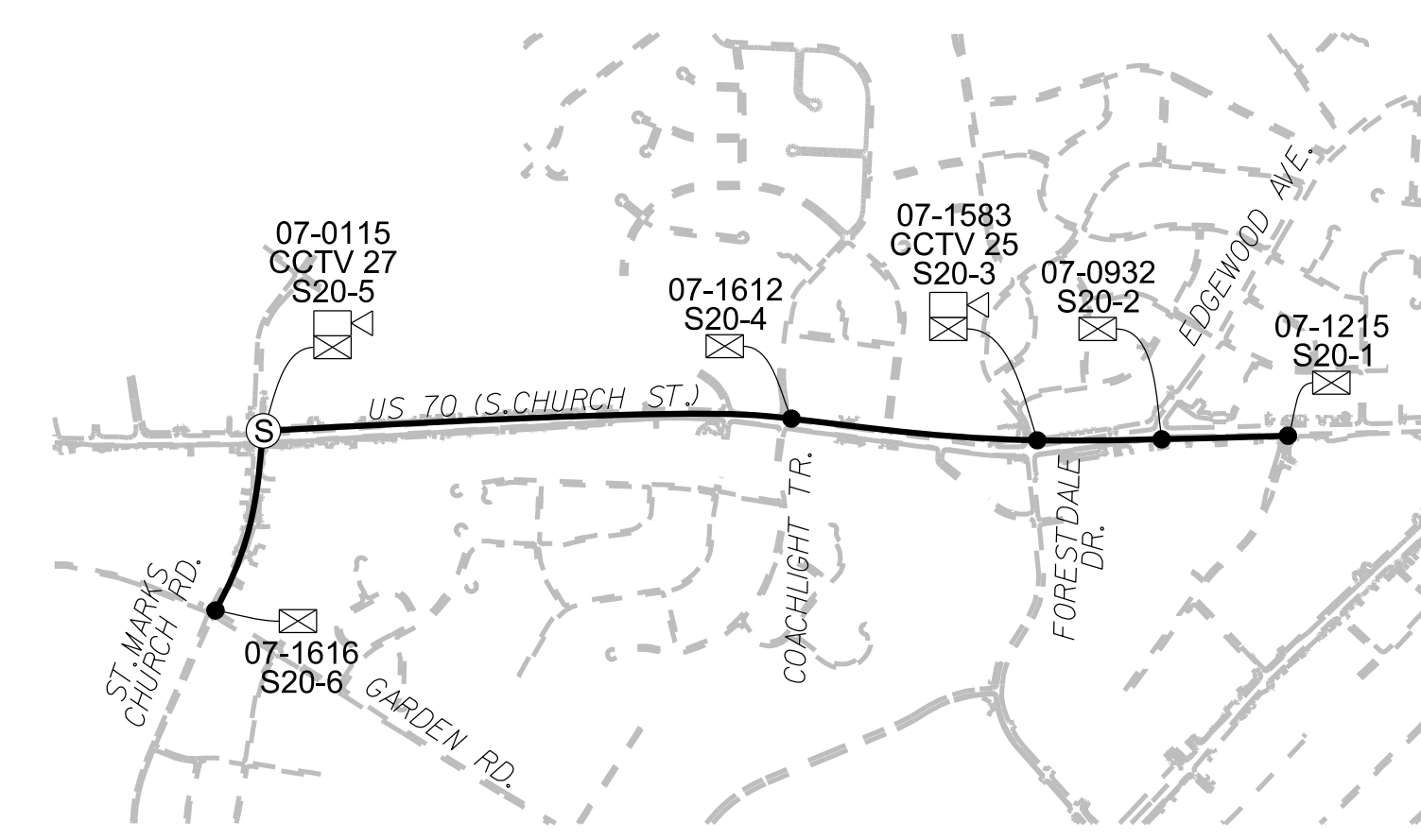
ENGINEER
Bradford J. Slocum

15/2018

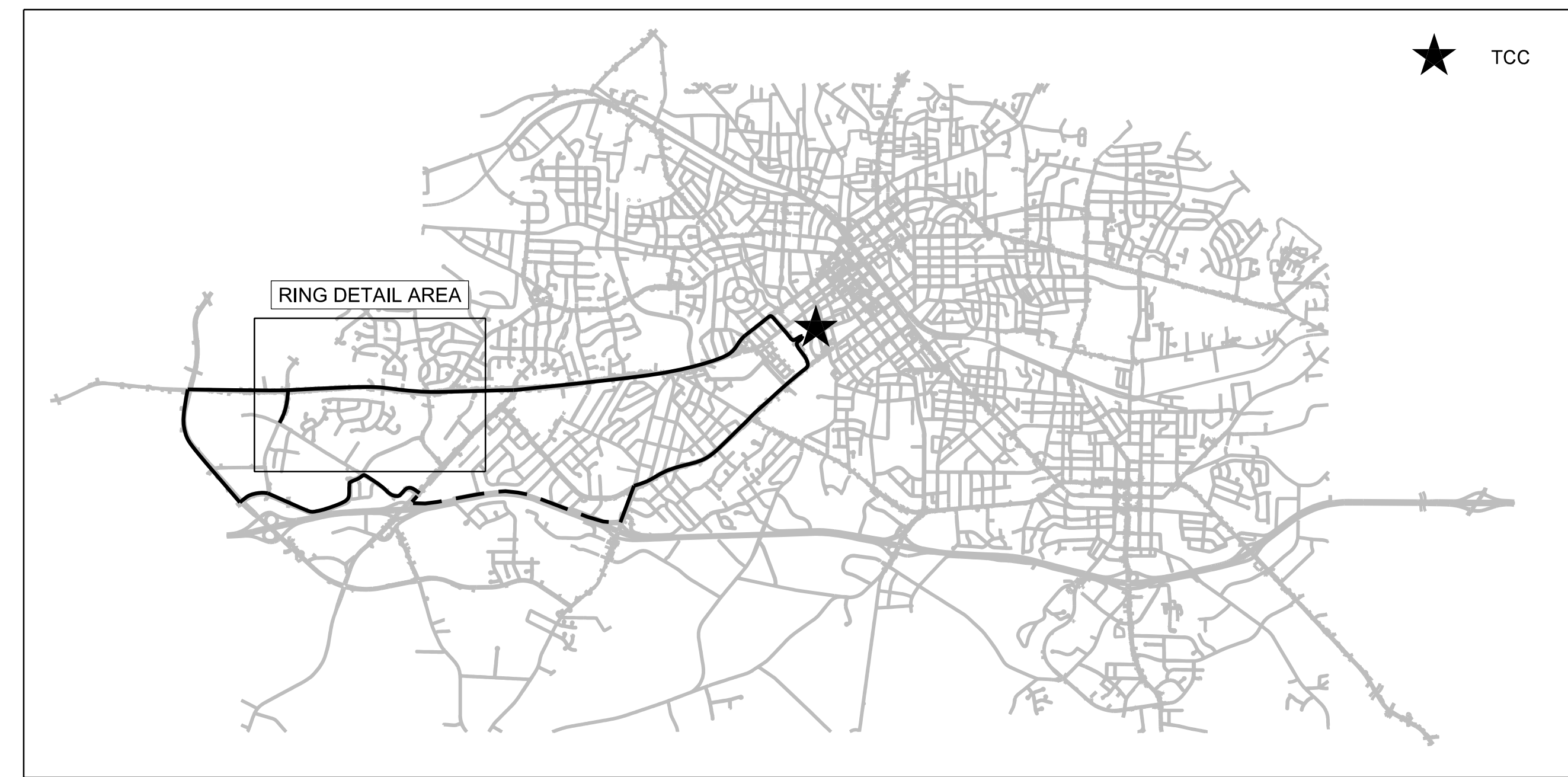
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RING 20 DETAIL



RING 20 OVERALL ROUTE

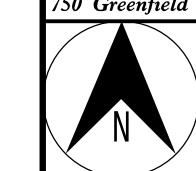


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SLOCUM AT LUS355433

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RALEIGH, NORTH CAROLINA 27609
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	Burlington-Graham Signal System Fiber-Optic Ring Schematics (Ring 20)		
	Division 7 Alamance County	Burlington & Graham	
PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	REVISIONS INIT. DATE	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER BRADFORD J. SLOCUM 15/2018

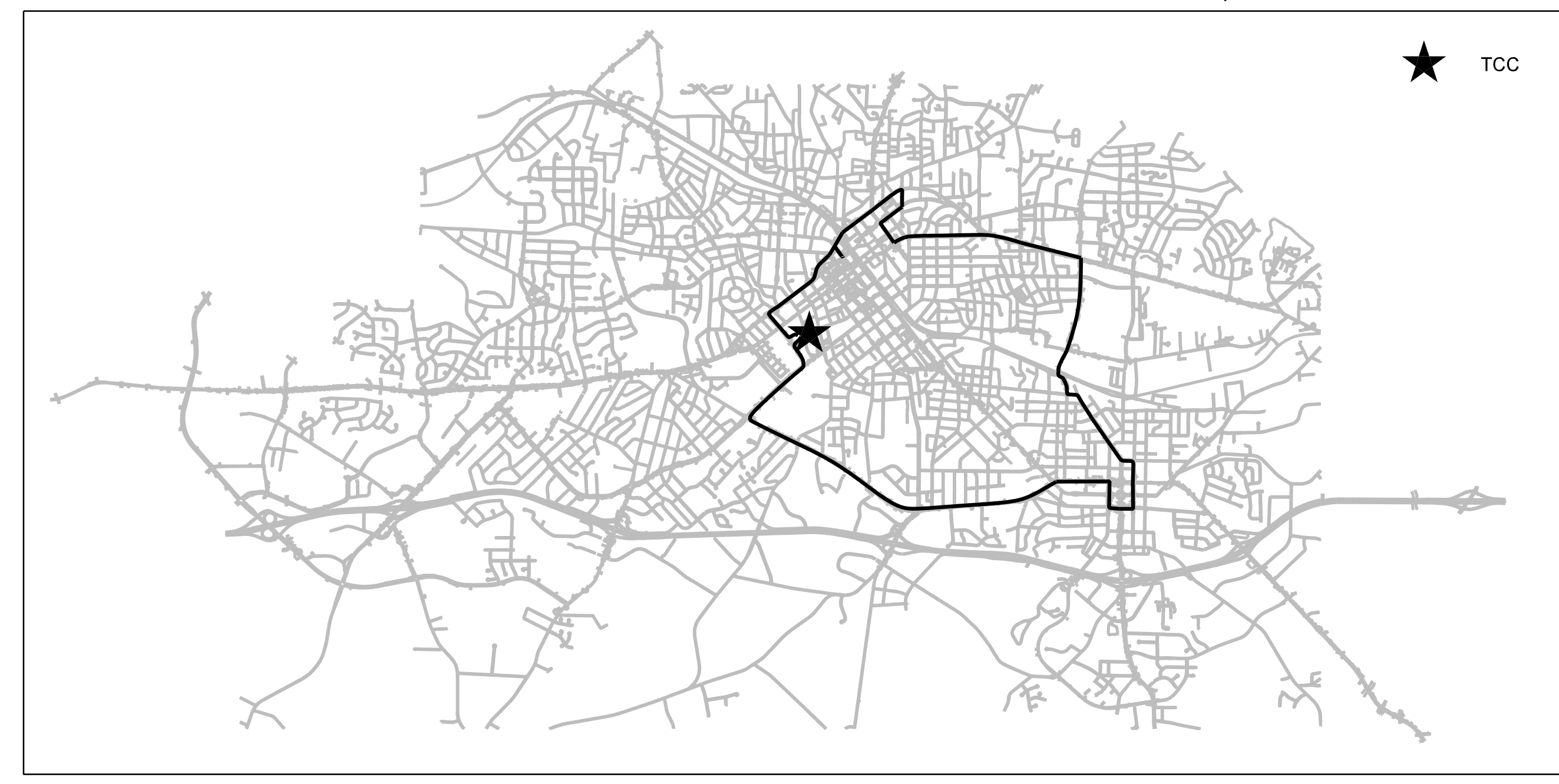


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VIDEO SHARING RINGS

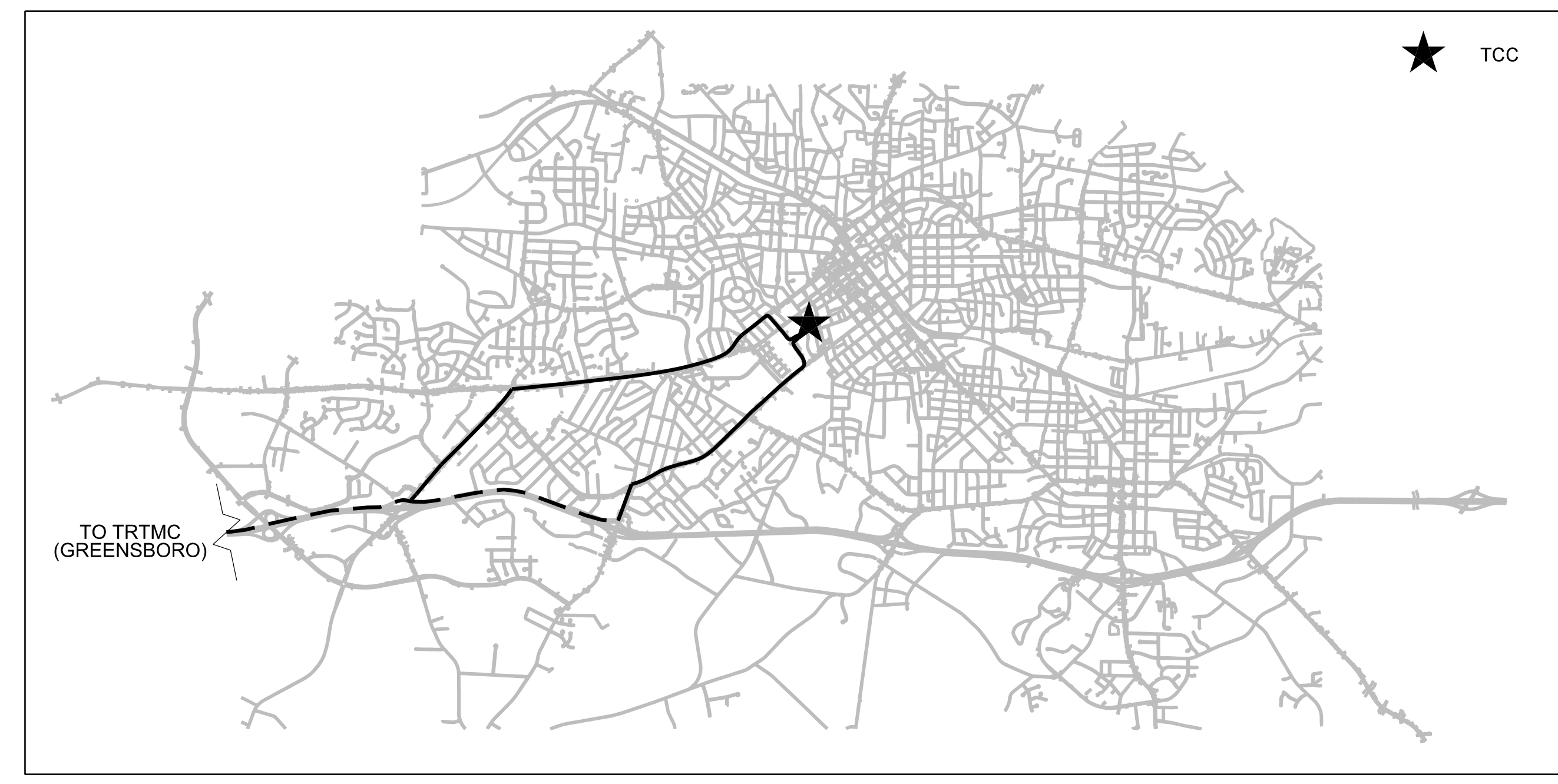
RING 21 OVERALL ROUTE

(SEE SPLICE S10-3 FOR CONNECTION TO POLICE DEPARTMENT.
SEE SPLICE S3-2 FOR CONNECTION TO COUNTY 911 CENTER)



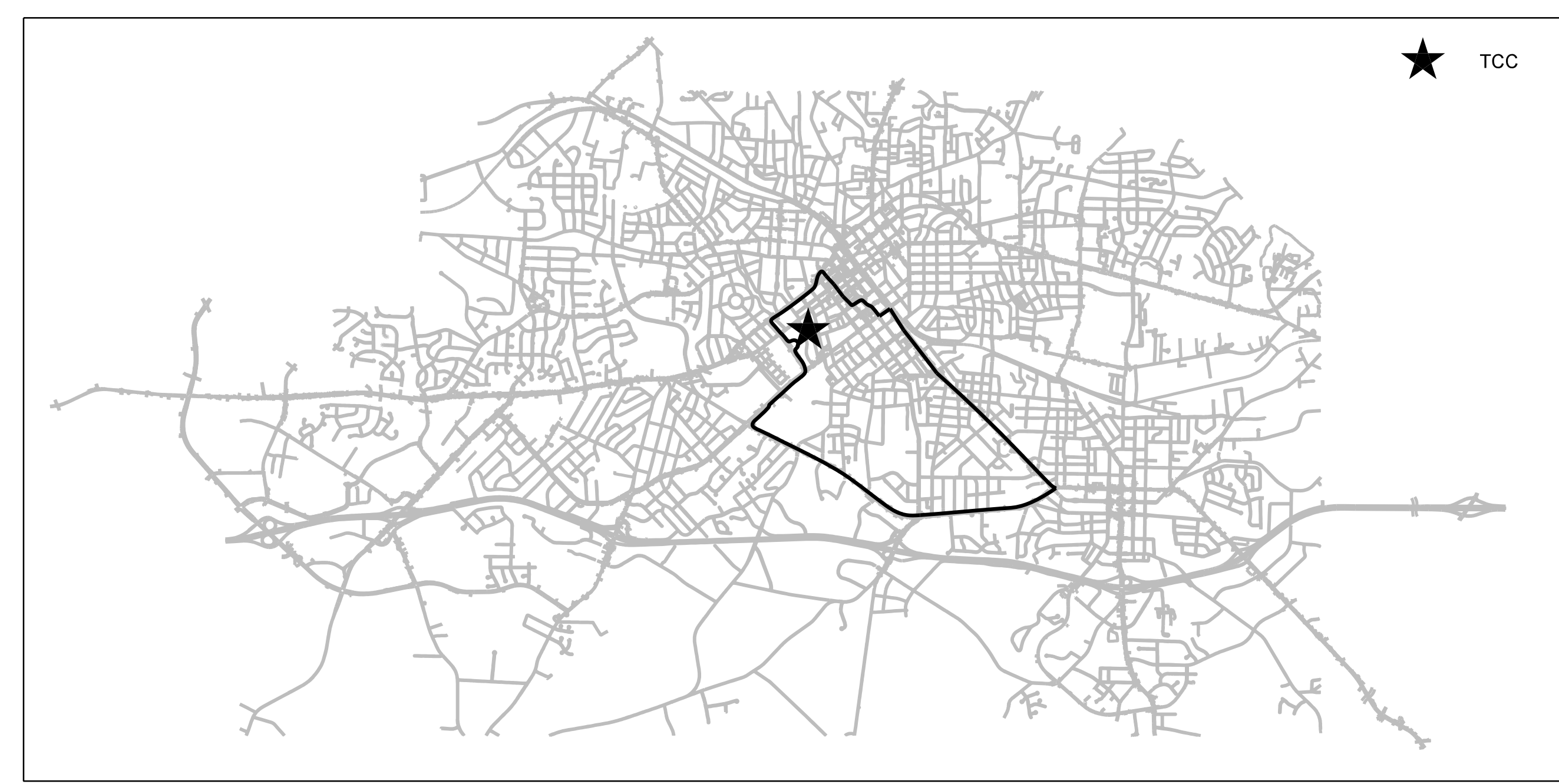
RING 22 OVERALL ROUTE

(SEE SPLICE S17-8 FOR CONNECTION TO HUFFMAN MILL NCDOT HUB CABINET)



RING 23 OVERALL ROUTE


(SEE SPLICE S9-1 FOR CONNECTION TO BURLINGTON CITY HALL)



14 JUN 2018 10:17
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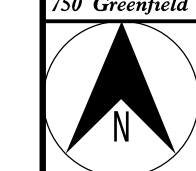
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEEES #F-0326

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Prepared for the Offices of:

 750 Greenfield Parkway, Garner, NC 27529

Burlington-Graham Signal System Fiber-Optic Ring Schematics (Rings 21, 22, 23) Burlington & Graham	
Division 7	Alamance County
PLAN DATE: June 2018	REVIEWED BY: HA BADGETT
PREPARED BY: BJ SLOCUM	REVIEWED BY: DL JONES
REVISIONS	INIT. DATE

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 15/2018
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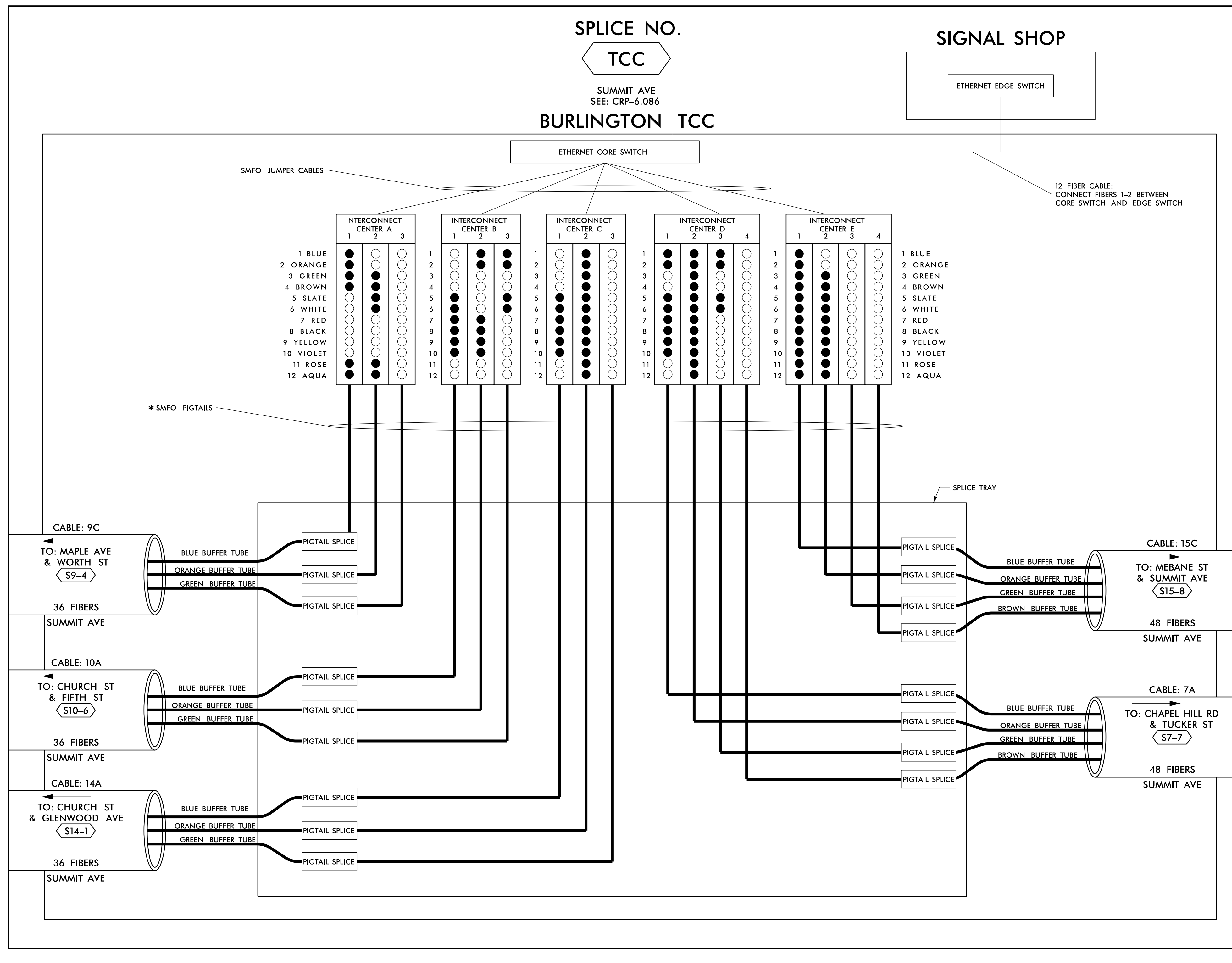
SCALE
N/A

Splice Number	Signal Inventory /CCTV ID	Fiber Splicing Detail Sheet	Cable Schematic	Cable Routing Plan Sheet No.
TCC	TCC	FS 4.001	FS 2.04	CRP-6.086
S1-1	07-1650 /CCTV 24	FS 4.002	FS 2.02	CRP-6.197
S1-2	07-1651	FS 4.003	FS 2.02	CRP-6.197
S1-3	07-1051	FS 4.004	FS 2.02	CRP-6.106
S1-4	07-1052 /CCTV 06	FS 4.005	FS 2.02	CRP-6.106
S1-5	07-1521	FS 4.005	FS 2.02	CRP-6.107
S1-6	07-1939	FS 4.006	FS 2.02	CRP-6.108
S1-7	07-1938	FS 4.006	FS 2.02	CRP-6.112
S1-8	07-1719	FS 4.007	FS 2.02	CRP-6.113
S1-9	07-1771	FS 4.007	FS 2.02	CRP-6.105
S1-10	07-1364	FS 4.008	FS 2.02	CRP-6.104
S1-11	07-0063	FS 4.009	FS 2.02	CRP-6.103
S1-12	07-1056	FS 4.010	FS 2.02	CRP-6.196
S2-0	CCTV 42	FS 4.011	FS 2.02	CRP-6.199
S2-1	07-1487	FS 4.012	FS 2.02	CRP-6.166
S2-2	07-1805	FS 4.013	FS 2.02	CRP-6.169
S2-3	07-1804	FS 4.013	FS 2.02	CRP-6.171
S2-4	07-1806 /CCTV 20	FS 4.014	FS 2.02	CRP-6.172
S2-5	07-1038	FS 4.014	FS 2.02	CRP-6.173
S2-6	07-1310	FS 4.015	FS 2.02	CRP-6.174
S2-7	07-1232	FS 4.015	FS 2.02	CRP-6.175
S2-8	07-0155	FS 4.016	FS 2.02	CRP-6.176
S2-9	07-1067	FS 4.016	FS 2.02	CRP-6.176
S2-9	CCTV 05	FS 4.016	FS 2.02	CRP-6.176
S2-10	07-0897	FS 4.017	FS 2.02	CRP-6.177
S3-1	07-0065	FS 4.018	FS 2.02	CRP-6.101
S3-1	07-0064	FS 4.018	FS 2.02	CRP-6.101
S3-1	07-2064	FS 4.018	FS 2.02	CRP-6.101
S3-2	County 911 Center	FS 4.019	FS 2.02	CRP-6.178
S3-2	07-2063 /CCTV 19	FS 4.019	FS 2.02	CRP-6.178
S3-2	07-0068	FS 4.019	FS 2.02	CRP-6.178
S3-3	G0100	FS 4.020	FS 2.02	CRP-6.180
S3-3	G0101	FS 4.020	FS 2.02	CRP-6.180
S3-3	G0102	FS 4.020	FS 2.02	CRP-6.180
S3-4	07-0062	FS 4.021	FS 2.02	CRP-6.102
S4-1	G0103	FS 4.022	FS 2.02	CRP-6.181
S4-2	07-0060	FS 4.022	FS 2.02	CRP-6.182
S4-3	07-0059	FS 4.023	FS 2.02	CRP-6.183
S4-4	07-0156	FS 4.024	FS 2.02	CRP-6.194
S4-5	07-0058	FS 4.024	FS 2.02	CRP-6.184
S4-6	07-0292	FS 4.025	FS 2.03	CRP-6.185
S4-7	B8453	FS 4.026	FS 2.03	CRP-6.191
S4-8	B8027	FS 4.026	FS 2.03	CRP-6.190
S4-9	07-0891	FS 4.027	FS 2.03	CRP-6.193
S4-10	07-2073	FS 4.028	FS 2.03	CRP-6.187
S4-10	07-0149	FS 4.028	FS 2.03	CRP-6.187
S5-1	07-0032 /CCTV 28	FS 4.029	FS 2.03	CRP-6.038
S5-2	07-0178	FS 4.030	FS 2.03	CRP-6.039
S5-2	07-0040	FS 4.030	FS 2.03	CRP-6.039
S5-3	07-1150 /CCTV 29	FS 4.030	FS 2.03	CRP-6.042
S5-4	07-1442	FS 4.031	FS 2.03	CRP-6.043
S5-5	07-0037	FS 4.032	FS 2.03	CRP-6.189
S5-6	07-0033	FS 4.032	FS 2.03	CRP-6.037
S5-7	07-0036	FS 4.033	FS 2.03	CRP-6.036
S5-8	B8026	FS 4.034	FS 2.03	CRP-6.161
S5-9	B8451	FS 4.034	FS 2.03	CRP-6.162
S5-10	07-1386	FS 4.035	FS 2.03	CRP-6.165
S5-11	07-0201	FS 4.035	FS 2.03	CRP-6.035
S6-1	07-1053	FS 4.036	FS 2.02	CRP-6.097
S6-2	07-1064	FS 4.036	FS 2.02	CRP-6.099
S6-3	07-0067 /CCTV 23	FS 4.037	FS 2.02	CRP-6.100
S6-4	07-0066	FS 4.038	FS 2.02	CRP-6.126
S6-5	07-0012	FS 4.038	FS 2.02	CRP-6.124
S6-6	07-0017	FS 4.039	FS 2.04	CRP-6.123
S6-7	07-0016 /CCTV 18	FS 4.040	FS 2.04	CRP-6.122
S6-8	07-0015	FS 4.041	FS 2.04	CRP-6.129
S6-9	07-0013	FS 4.041	FS 2.04	CRP-6.121
S7-1	CCTV 35	FS 4.042	FS 2.01	CRP-6.198
S7-2	07-0162	FS 4.043	FS 2.02	CRP-6.115
S7-2	CCTV 04	FS 4.043	FS 2.02	CRP-6.115
S7-3	07-0159	FS 4.044	FS 2.02	CRP-6.114
S7-3	07-1066	FS 4.044	FS 2.02	CRP-6.114
S7-3	07-1463	FS 4.044	FS 2.02	CRP-6.114
S7-4	07-1423	FS 4.045	FS 2.02	CRP-6.115
S7-4	07-0857	FS 4.045	FS 2.02	CRP-6.115
S7-5	07-0043 /CCTV 37	FS 4.046	FS 2.02	CRP-6.096
S7-6	07-1030	FS 4.047	FS 2.02	CRP-6.095
S7-7	07-0008 /CCTV 36	FS 4.047	FS 2.02	CRP-6.092

Splice Number	Signal Inventory /CCTV ID	Fiber Splicing Detail Sheet	Cable Schematic	Cable Routing Plan Sheet No.
S8-1	07-0014	FS 4.048	FS 2.04	CRP-6.121
S8-1	B0003	FS 4.048	FS 2.04	CRP-6.121
S8-2	07-0022	FS 4.049	FS 2.04	CRP-6.121
S8-3	07-0047	FS 4.050	FS 2.04	CRP-6.128
S8-3	07-0048	FS 4.050	FS 2.04	CRP-6.128
S8-3	07-0049	FS 4.050	FS 2.04	CRP-6.128
S8-4	07-0023	FS 4.051	FS 2.04	CRP-6.120
S8-4	07-0150 /CCTV 07	FS 4.051	FS 2.04	CRP-6.120
S8-5	07-0175	FS 4.052	FS 2.04	CRP-6.119
S8-5	B8021	FS 4.052	FS 2.04	CRP-6.119
S8-6	07-0128	FS 4.053	FS 2.04	CRP-6.119
S8-6	07-0174	FS 4.053	FS 2.04	CRP-6.119
S8-6	B8022	FS 4.053	FS 2.04	CRP-6.119
S9-1	B8456	FS 4.054	FS 2.04	CRP-6.118
S9-1	B8457	FS 4.054	FS 2.04	CRP-6.118
S9-1	City Hall	FS 4.054	FS 2.04	CRP-6.118
S9-2	B6469	FS 4.055	FS 2.04	CRP-6.117
S9-2	B8454	FS 4.055	FS 2.04	CRP-6.117
S9-2	B8455	FS 4.055	FS 2.04	CRP-6.117
S9-3	B6766	FS 4.056	FS 2.04	CRP-6.116
S9-3	B6767	FS 4.056	FS 2.04	CRP-6.116
S9-3	B6228 /CCTV 12	FS 4.056	FS 2.04	CRP-6.116
S9-4	B6765	FS 4.057	FS 2.04	CRP-6.116
S9-4	B6468	FS 4.057	FS 2.04	CRP-6.116
S9-5	07-0210	FS 4.058	FS 2.04	CRP-6.127
S9-5	B6229	FS 4.058	FS 2.04	CRP-6.127
S9-5	B8458	FS 4.058	FS 2.04	CRP-6.127
S10-1	07-0873	FS 4.059	FS 2.03	CRP-6.025
S10-2	07-0980	FS 4.060	FS 2.04	CRP-6.025
S10-3	07-0018	FS 4.061	FS 2.04	CRP-6.025
S10-3	07-0027	FS 4.061	FS 2.04	CRP-6.025
S10-3	Police Dept	FS 4.061	FS 2.04	CRP-6.025
S10-4	07-0981	FS 4.062	FS 2.04	CRP-6.025
S10-4	07-0028	FS 4.062	FS 2.04	CRP-6.025
S10-5	07-0029 /CCTV 22	FS 4.063	FS 2.04	CRP-6.024
S10-5	07-0030	FS 4.063	FS 2.04	CRP-6.024
S10-5	07-0872	FS 4.063	FS 2.04	CRP-6.024
S10-5	07-0982	FS 4.063	FS 2.04	CRP-6.024
S10-6	07-0011	FS 4.064	FS 2.04	CRP-6.024
S11-1	B8025	FS 4.065	FS 2.03	CRP-6.031
S11-2	B0011	FS 4.066	FS 2.03	CRP-6.032
S11-3	07-0125	FS 4.067	FS 2.03	CRP-6.028
S11-3	07-0021	FS 4.067	FS 2.03	CRP-6.028
S11-3	07-0046	FS 4.067	FS 2.03	CRP-6.028
S11-3	07-0034 /CCTV 41	FS 4.067	FS 2.03	CRP-6.028
S11-4	07-0126	FS 4.068	FS 2.03	CRP-6.029
S11-4	07-0127	FS 4.068	FS 2.03	CRP-6.029
S11-5	07-2204	FS 4.069	FS 2.03	CRP-6.030
S11-6	07-0157 /CCTV 21	FS 4.070	FS 2.03	CRP-6.027
S11-7	07-0020	FS 4.071	FS 2.03	CRP-6.157
S11-7	07-1570	FS 4.071	FS 2.03	CRP-6.157
S11-8	07-0350	FS 4.071	FS 2.03	CRP-6.160
S11-9	07-0121	FS 4.072	FS 2.03	CRP-6.026
S12-1	07-0005	FS 4.073	FS 2.03	CRP-6.142
S12-1	07-0415	FS 4.073	FS 2.03	CRP-6.142
S12-2	07-0006	FS 4.073	FS 2.03	CRP-6.140
S12-2	B0001	FS 4.073	FS 2.03	CRP-6.140
S12-3	07-0003	FS 4.074	FS 2.03	CRP-6.138
S12-4	B0002	FS 4.075	FS 2.03	CRP-6.134
S12-5	07-0001	FS 4.075	FS 2.03	CRP-6.133
S12-5	07-0148 /CCTV 15	FS 4.075	FS 2.03	CRP-6.133
S12-6	07-0107	FS 4.076	FS 2.03	CRP-6.132
S12-7		FS 4.077	FS 2.03	CRP-6.131
S12-8	07-1634	FS 4.078	FS 2.03	CRP-6.156
S12-9	07-0106 /CCTV 39	FS 4.078	FS 2.03	CRP-6.130
S13-1	07-0206	FS 4.079	FS 2.03	CRP-6.137
S13-2	B7273 /CCTV 31	FS 4.080	FS 2.03	CRP-6.151
S13-2	B7274	FS 4.080	FS 2.03	CRP-6.151
S13-3	B7272	FS 4.081	FS 2.03	CRP-6.153
S13-4	07-1718	FS 4.082	FS 2.03	CRP-6.150
S13-5	B0004	FS 4.082	FS 2.03	CRP-6.149
S13-6	B0005	FS 4.083	FS 2.03	CRP-6.148
S13-7	B8023 /CCTV 30	FS 4.083	FS 2.03	CRP-6.147
S13-8	B8024	FS 4.084	FS 2.03	CRP-6.146
S13-9	07-1294	FS 4.084	FS 2.03	CRP-6.145

Splice Number	Signal Inventory /CCTV ID	Fiber Splicing Detail Sheet	Cable Schematic	Cable Routing Plan Sheet No.
S14-1	07-0007	FS 4.085	FS 2.04	CRP-6.022
S14-2	07-1380	FS 4.085	FS 2.04	CRP-6.021
S14-2	B0008	FS 4.085	FS 2.04	CRP-6.021
S14-3	07-0041	FS 4.086	FS 2.01	CRP-6.020
S14-4	07-0042	FS 4.086	FS 2.01	CRP-6.019
S14-4	CCTV 08	FS 4.086	FS 2.01	CRP-6.019
S14-5	07-0035	FS 4.087	FS 2.01	CRP-6.019
S14-6	07-0158	FS 4.087	FS 2.01	CRP-6.017
S14-7	07-1062	FS 4.088	FS 2.01	CRP-6.016
S14-8	07-1653	FS 4.088	FS 2.01	CRP-6.015
S14-8	CCTV 26	FS 4.088	FS 2.01	CRP-6.015
S14-9	07-2096	FS 4.089	FS 2.01	CRP-6.015
S14-10	07-0112 /CCTV 02	FS 4.090	FS 2.01	CRP-6.014
S15-1	07-1230	FS 4.091	FS 2.01	CRP-6.089
S15-1	07-1231	FS 4.091	FS 2.01	CRP-6.089
S15-2	07-0220 /CCTV 03	FS 4.092	FS 2.01	CRP-6.089
S15-2	07-0961	FS 4.092	FS 2.01	CRP-6.089
S15-3	07-1990	FS 4.092	FS 2.01	CRP-6.087
S15-4	07-0133 /CCTV 34	FS 4.093	FS 2.01	CRP-6.077
S15-5	07-1852	FS 4.094	FS 2.01	CRP-6.078
S15-6	07-0009 /CCTV 17			

BURLINGTON PUBLIC WORKS BUILDING



Tables listing fiber configurations for Interconnect Centers A, B, C, D, and E, including Slot 1, 2, and 3 details for each center.

* SMFO PIGTAILS TO BE SPICED TO BUFFER TUBES COLOR TO COLOR.

LEGEND

Legend table with columns for Color Code, Fiber Type (EXPRESS, BUFFER SPlice, EXISTING), and Description.

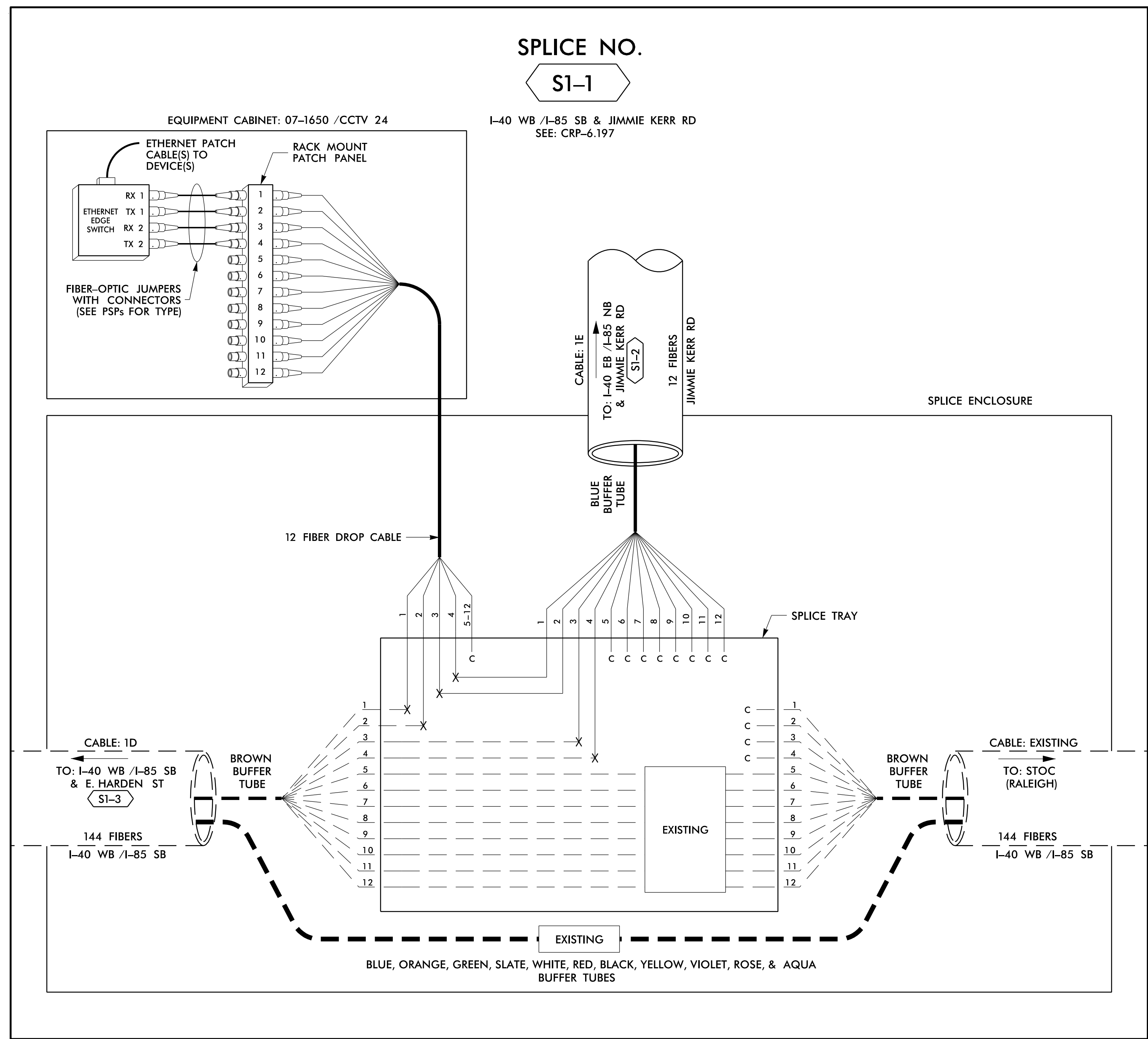
NOTES

- 1. UNUSED FIBERS LEFT COILED AND STORED IN SPlice TRAY
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPlice ENCLOSURE
3. EDGE SWITCH CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.

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

Professional seal area for Bradford J. Slocum, Engineer, including project details, revision table, and signature lines.

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LEGEND

COLOR CODE			
TIA/EIA 598-B			
(1) BLUE	(7) RED	EXPRESS	EXPRESS ENTIRE BUFFER TUBE /FIBERS THROUGH WITHOUT CUTTING
(2) ORANGE	(8) BLACK	BUFFER SPlice	SPlice ALL FIBERS IN BUFFER TUBE COLOR TO COLOR
(3) GREEN	(9) YELLOW	EXISTING	EXISTING BUFFER TUBE /FIBERS DO NOT MODIFY EXISTING SPlices OR EXPRESSED FIBERS.
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

X = FUSION SPlice INDIVIDUAL FIBER
C = CAP AND SEAL

- NOTES**
- UNUSED FIBERS LEFT COILED AND STORED IN SPlice TRAY
 - UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPlice ENCLOSURE
 - EDGE SWITCH CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.

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

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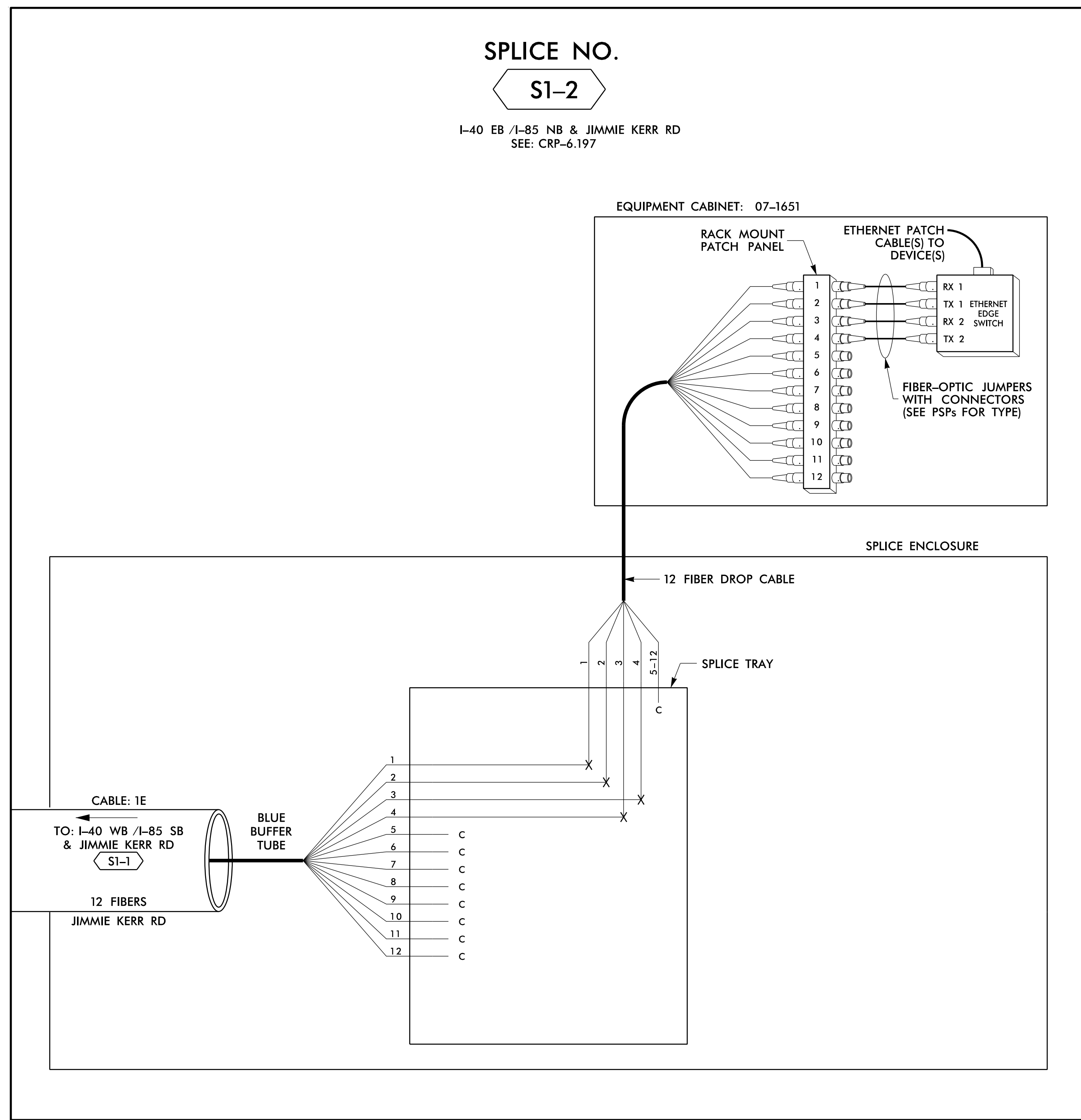
Prepared for the Offices of: 		Burlington-Graham Signal System Fiber-Optic Splicing Details Division 7 Alamance County Burlington & Graham PLAN DATE: June 2018 REVIEWED BY: HA BADGETT PREPARED BY: BJ SLOCUM REVIEWED BY: DL JONES	
750 Greenfield Parkway, Garner, NC 27529	SCALE: N/A		
REVISIONS INIT. DATE		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER BRADFORD J. SLOCUM 15/2018 DATE	

CADD File name: FS_4.002.dgn

SPLICE NO.

S1-2

I-40 EB / I-85 NB & JIMMIE KERR RD
SEE: CRP-6.197



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LEGEND

COLOR CODE TIA/EIA 598-B		X = FUSION SPLICE INDIVIDUAL FIBER	
(1) BLUE	(7) RED	EXPRESS ENTIRE BUFFER TUBE / FIBERS THROUGH WITHOUT CUTTING	
(2) ORANGE	(8) BLACK	C = CAP AND SEAL	
(3) GREEN	(9) YELLOW	EXPRESS	
(4) BROWN	(10) VIOLET	BUFFER SPLICE	
(5) SLATE	(11) ROSE	SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR	
(6) WHITE	(12) AQUA	EXISTING	
		EXISTING BUFFER TUBE / FIBERS DO NOT MODIFY EXISTING SPLICES OR EXPRESSED FIBERS.	

NOTES

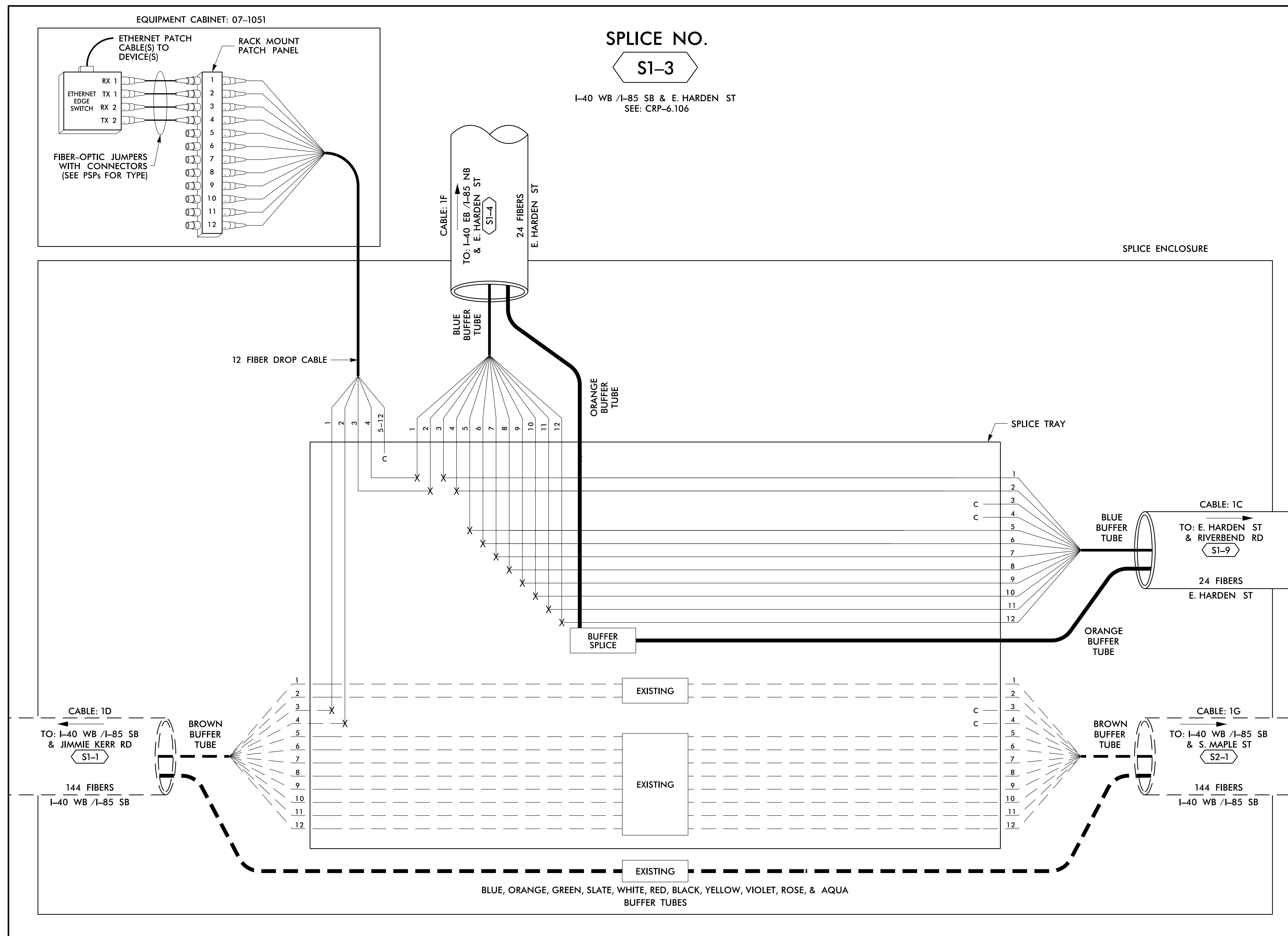
- UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY
- UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE ENCLOSURE
- EDGE SWITCH CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.

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RALEIGH, NORTH CAROLINA 27609
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<p>Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Transportation Systems</p>	Burlington-Graham Signal System Fiber-Optic Splicing Details		
	Division 7 Alamance County Burlington & Graham		
PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM	REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES		
SCALE: N/A	REVISIONS	INIT.	DATE

DATE: 15/2018
CAD00 File name: FS_4.003.dgn



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LEGEND

COLOR CODE TIA/EIA 598-B		X = FUSION SPlice INDIVIDUAL FIBER C = CAP AND SEAL	
(1) BLUE	(7) RED	EXPRESS	EXPRESS ENTIRE BUFFER TUBE /FIBERS THROUGH WITHOUT CUTTING
(2) ORANGE	(8) BLACK	BUFFER SPlice	SPlice ALL FIBERS IN BUFFER TUBE COLOR TO COLOR
(3) GREEN	(9) YELLOW	EXISTING	EXISTING BUFFER TUBE /FIBERS DO NOT MODIFY EXISTING SPlices OR EXPRESSED FIBERS.
(4) BROWN	(10) VIOLET		
(5) SLATE	(11) ROSE		
(6) WHITE	(12) AQUA		

NOTES

- UNUSED FIBERS LEFT COILED AND STORED IN SPICE TRAY
- UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPICE ENCLOSURE
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ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEEs #F-0326

DOCUMENT NOT CONSIDERED FINAL
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Prepared for the Offices of: 750 Greenfield Parkway, Garner, NC 27529	Burlington-Graham Signal System Fiber-Optic Splicing Details		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040877 BRADFORD J. SLOCUM 15/2018 DATE
	Division 7 Alamance County PLAN DATE: June 2018 PREPARED BY: BJ SLOCUM SCALE: N/A	Burlington & Graham REVIEWED BY: HA BADGETT REVIEWED BY: DL JONES	