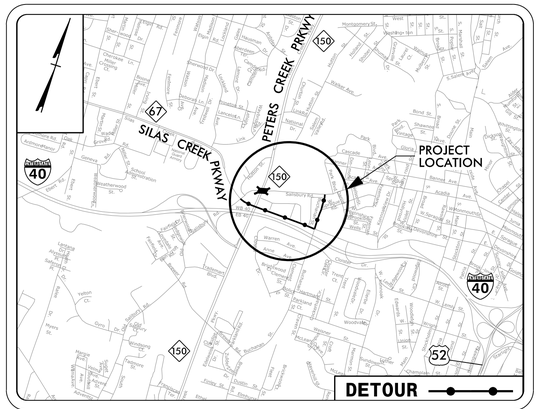
PROJECT REFERENCE NO.	SHEET NO.
B-5770	SCP-1

TIP: B-5770

WBS: 45726



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

LOCATION: BRIDGE NO. 243 ON SALISBURY RIDGE RD. OVER NC 150 (PETERS CREEK PARKWAY)

TYPE OF WORK: COMMUNICATIONS CABLE AND CONDUIT ROUTING

INDEX OF SHEETS

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOUSRE
1101.03	TEMPORARY SHOULDER CLOUSRE
1715.01	UNDERGROUND CONDUIT
1716.01	JUNCTION BOXES
1720.01	WOOD POLES
1721.01	GUY ASSEMBLIES
1730.01	FIBER OPTIC CABLE

NCDOT CONTACT:

TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH
GREGORY A. GREEN – SIGNAL COMMUNICATIONS PROJECT ENGINEER

KCA KISINGER CAMPO & ASSOCIATES

PLANS PREPARED BY:
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RALEIGH, NC 27601
LICENSE NO.: C-1506

Plans Prepared for:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N. Greenfield Pkwy., Garner, NC 27529

SCALE 0 50

COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

DIVISION 09 FORSYTH COUNTY WINSTON-SALEM

PLAN DATE: MAY 2020 REVIEWED BY:

PREPARED BY: SAMUEL CULLUM REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043571 ENGINEER SAMUEL L CULLUM

Samuel Cullum 2/21/2022
SIGNATURE DATE

PROJECT REFERENCE NO.	SHEET NO.
B-5770	SCP-1A

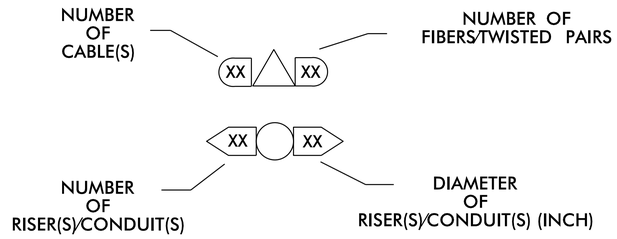
1. INSTALL REA, PE – 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
2. INSTALL REA, PE – 38, (FIGURE – 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
3. INSTALL REA, PE – 39, (UNDERGROUND) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
4. INSTALL SMFO CABLE
5. EXISTING SMFO CABLE
6. INSTALL FIBER OPTIC DROP CABLE
7. INSTALL TRACER WIRE
8. TRENCH
9. INSTALL PVC CONDUIT
10. INSTALL RIGID, GALVANIZED STEEL CONDUIT
11. INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
12. INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
13. INSTALL OUTER–DUCT POLYETHYLENE CONDUIT
14. INSTALL POLYETHYLENE CONDUIT
15. DIRECTIONAL DRILL CONDUIT
16. BORE AND JACK CONDUIT
17. INSTALL CABLE(S) IN EXISTING CONDUIT
18. INSTALL CABLE(S) IN NEW CONDUIT
19. INSTALL CABLE(S) IN EXISTING RISER
20. INSTALL CABLE(S) IN NEW RISER
21. INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS
22. INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB–OUTS WHEN AVAILABLE)
23. INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB–OUTS WHEN AVAILABLE)
24. INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
26. TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
27. INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET
29. INSTALL UNDERGROUND SPLICE ENCLOSURE
30. INSTALL AERIAL SPLICE ENCLOSURE
31. MODIFY EXISTNG SPLICE ENCLOSURE
32. INSTALL BASE MOUNTED SPLICE CABINET
33. REMOVE EXISTING SPLICE CABINET
34. INSTALL CABINET FOUNDATION
35. REMOVE EXISTING CABINET FOUNDATION
36. INSTALL CCTV CAMERA ASSEMBLY
37. INSTALL CCTV CAMERA WOOD POLE
38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
39. INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")
40. INSTALL OVERSIZED JUNCTION BOX
41. REMOVE EXISTING JUNCTION BOX
42. INSTALL WOOD POLE
43. REMOVE EXISTING WOOD POLE
44. INSTALL AERIAL GUY ASSEMBLY
45. INSTALL STANDARD GUY ASSEMBLY
46. INSTALL SIDEWALK GUY ASSEMBLY
47. INSTALL MESSENGER CABLE
48. REMOVE EXISTING MESSENGER CABLE
49. BACK PULL EXISTING COMMUNICATIONS CABLE
50. INSTALL TELEPHONE SERVICE
51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
52. INSTALL DELINEATOR MARKER
53. STORE 100 FEET OF COMMUNICATIONS CABLE
54. LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
55. LASH CABLE(S) TO EXISTING MESSENGER CABLE
56. LASH CABLE(S) TO NEW MESSENGER CABLE
57. MODIFY EXISTING ELECTRICAL SERVICE
58. INSTALL NEW ELECTRICAL SERVICE
59. BOND RISER AND MESSENGER CABLE TO POLE GROUND

LEGEND

- FO FO — NEW FIBER OPTIC COMMUNICATIONS CABLE
- TWIST PR — NEW TWISTED PAIR COMMUNICATIONS CABLE
- EXI — EXISTING COMMUNICATIONS CABLE
- REM — EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- NEW AERIAL GUY ASSEMBLY
- NEW CONDUIT
- EXISTING CONDUIT
- DD DD — NEW DIRECTIONAL DRILLED CONDUIT
- B&J B&J — NEW BORED AND JACKED CONDUIT
- NEW JUNCTION BOX / EXISTING JUNCTION BOX
- NEW WOOD POLE / EXISTING WOOD POLE
- (S) NEW AERIAL SPLICE ENCLOSURE
- (S) EXISTING AERIAL SPLICE ENCLOSURE
- (S) NEW UNDERGROUND SPLICE ENCLOSURE
- NEW STANDARD GUY ASSEMBLY
- NEW STANDARD GUY USING EXISTING ANCHOR
- NEW SIDEWALK GUY ASSEMBLY
- NEW CABLE STORAGE RACKS (SNOW SHOES)
- EXISTING CONTROLLER AND CABINET
- [S] EXISTING SPLICE CABINET
- [S] NEW SPLICE CABINET
- SP — SIGNAL POLE
- ## — UTILITY POLE TAG NUMBER
- XX–XXXX — SIGNAL INVENTORY NUMBER

CONSTRUCTION NOTE SYMBOLOGY KEY

- (XX) INDICATES NUMBER OF CABLES, LOOPS, ETC.
- [XX] INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- <XX INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- XX> INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)



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LICENSE NO. C-1506

Plans Prepared for:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Integrated Mobility Division
750 N. Greenfield Pkwy., Garner, NC 27529

Communications Cable and Conduit Routing Plans
CONSTRUCTION NOTES

Divsion 9 Forsyth County Winston-Salem

PLAN DATE: MAY 2020 REVIEWED BY:
PREPARED BY: SAMUEL CULLUM REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043571 ENGINEER SAMUEL I CULLUM
Samuel Cullum 2/21/2022
SIGNATURE DATE
SIG. INVENTORY NO. 09-0022

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PROJECT REFERENCE NO.	SHEET NO.
B-5770	SCP-1B

Cable Routing General Notes

1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE FIBER OPTIC, CONTACT THE NCDOT REGIONAL ITS ENGINEER (336) 315-7080, THE CITY OF WINSTON-SALEM SIGNAL SYSTEM SUPERVISOR (336) 748-3228, AND THE CITY OF WINSTON-SALEM IS DIRECTOR (336) 747-7005.

2. DETERMINE THE APPROPRIATE SPLICE ENCLOSURE AT OR NEAR THE PETERS CREEK ROAD AT SILAS CREEK ROAD INTERSECTION FOR EACH FIBER OPTIC CABLE. PRIOR TO CUTTING ANY EXISTING FIBER OPTIC CABLE, INSTALL THE NEW FIBER OPTIC CABLE ALONG THE ENTIRE PROJECT ROUTE AS SHOWN. THE CUT OVER WORK SHALL NOT EXCEED 4 HOURS IN DURATION FOR ANY CABLE (SEE "ICT"). THIS WORK IS NOT COMPLETE UNTIL THE ALL THREE AFFECTED SYSTEMS ARE BACK UP AND OPERATIONAL.

3. INSTALL THE NCDOT ITS AND THE CITY OF WINSTON-SALEM SIGNAL SYSTEM FIBERS IN THE SAME RISERS AND JUNCTION BOXES. INSTALL THE CITY OF WINSTON-SALEM IS FIBER IN A SEPARATE RISER AND JUNCTION BOX. INSTALL EACH FIBER IN A SEPARATE CONDUIT. NO TWO FIBER OPTIC CABLES SHALL SHARE A SPLICE ENCLOSURE.

4. CUT EXISTING FIBERS AT THE POLE ON THE SOUTH SIDE OF THE BRIDGE TO ENSURE THAT SUFFICIENT SLACK FROM THE EXISTING FIBER OPTIC CABLE CAN BE BACK PULLED TO THE NORTH SIDE OF THE BRIDGE TO ALLOW FOR SPLICING.

Splice Detail General Notes

1. RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.

2. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
   1) SPLICE LOCATION
   2) DATE
   3) COMPANY NAME
   4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

3. PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OPTIMAL TIME DOMAIN REFLECTOMETER (OTDR) TEST RESULTS.

Plan Sheet Design Notes

1. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISITING UNDERGROUND UTILITIES AND OBSTRUCTIONS, SEE RSD 1715.01 SHEET 2 OF 2 SECTION 1700 OF THE STANDARD SPECIFICATIONS, AND COORDINATE WITH UTILITY CONSTRUCTION PLANS.

* CONTRACTOR TO DETERMINE THE APPROPRIATE SPLICE ENCLOSURE FOR EACH FIBER OPTIC TABLE.

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Plans Prepared for:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Integrated Mobility Division
750 N. Greenfield Pkwy., Garner, NC 27529

Communications Cable and Conduit Routing Plans
GENERAL NOTES

Divsion 9 Forsyth County Winston-Salem

PLAN DATE: MAY 2020 REVIEWED BY:
PREPARED BY: SAMUEL CULLUM REVIEWED BY:

REVISIONS	INIT.	DATE

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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043571 ENGINEER SAMUEL I CULLUM

Samuel Cullum 2/21/2022
SIGNATURE DATE

SIG. INVENTORY NO. 09-0022

PROJECT REFERENCE NO.	SHEET NO.
B-5770	SCP-2

*** SEE NOTE ***

1 4 144 / 1 5 144 / 31

1 4 48 / 2 5 24 / 31

1 4 36 / 2 5 36 / 1 5 24 / 1 5 6 / 31

1 4 144 / 1 4 48 / 1 4 36 / 7 / 8 / 4 14 2 / 18

1 5 36 / 1 4 36 / 29 / 39 / 52 / 53

1 4 144 / 1 5 48 / 1 5 36 / 2 12 2 SEE GENERAL NOTE 3 / 20 / 45 / 59

PROPOSED STRUCTURE

1 4 144 / 1 4 48 / 1 4 36 / 54

SILAS CREEK PARKWAY

PETERS CREEK PARKWAY (NC HWY 150)

SALISBURY RIDGE RD

EXISTING R/W

ONLY

09-0022

1 4 36 / 39 / 52 / 53

1 5 144 / 1 4 144 / 29 / 53

1 5 48 / 1 4 48 / 29 / 39 / 52 / 53

1 5 144 / 1 5 48 / 1 5 36 / 48 / 49

1 4 144 / 1 4 48 / 1 4 36 / 2 12 2 SEE GENERAL NOTE 3 / 20 / 45 / 59

1 4 144 / 1 4 48 / 39 / 52 / 53

PHASE 1 - REMOVAL AND INSTALLATION OF ITS CABLE

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Plans Prepared for: NCDOT Transportation Mobility and Safety Division

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SCALE 0 30

Communications Cable and Conduit Routing Plans

Divsion 9 Forsyth County Winston-Salem

PLAN DATE: MAY 2020 REVIEWED BY:

PREPARED BY: SAMUEL CULLUM REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043571 SAMUEL L CULLUM

Samuel Cullum 2/21/2022
SIGNATURE DATE

SIG. INVENTORY NO. 09-0022

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PROJECT REFERENCE NO.	SHEET NO.
B-5770	SCP-3

Splice Detail General Notes

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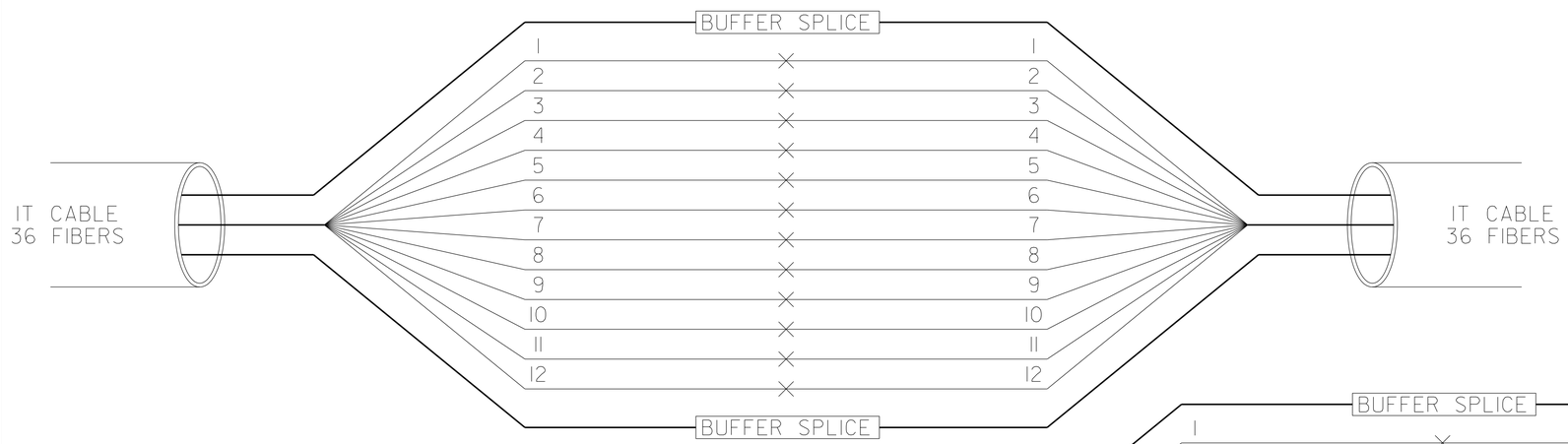

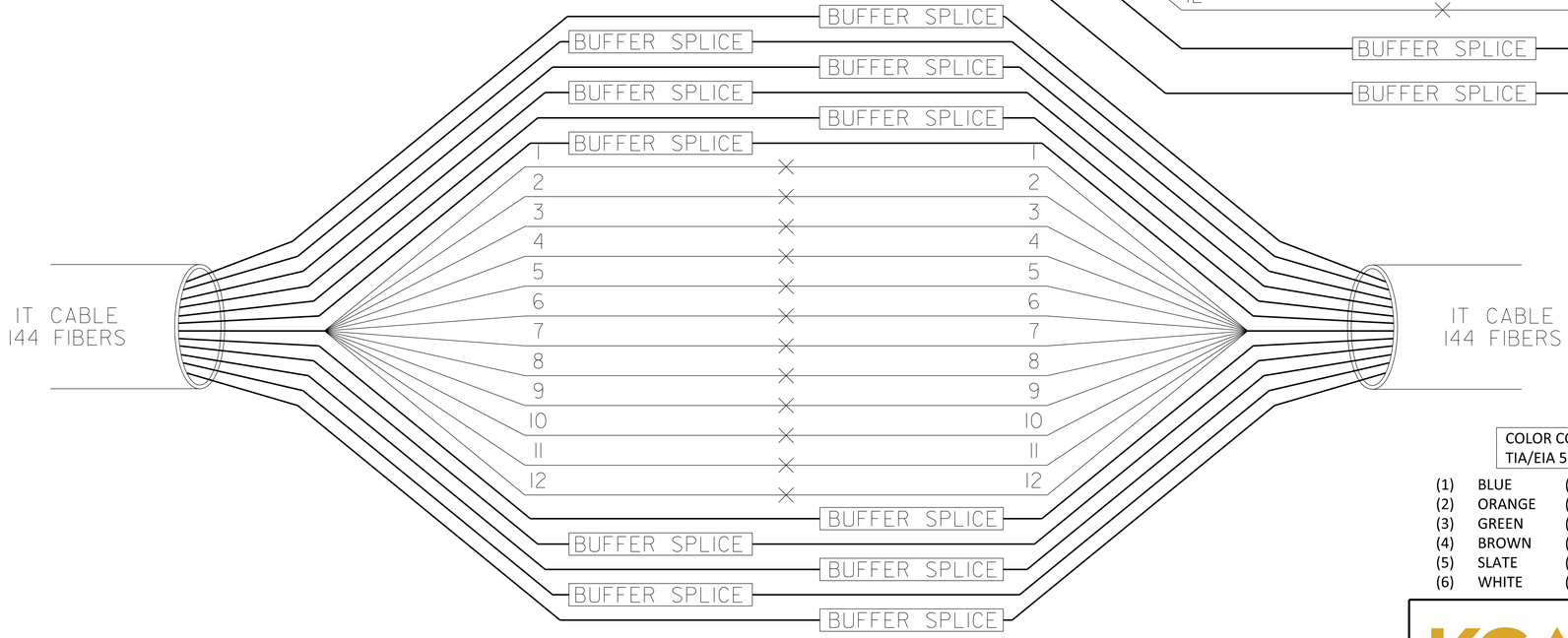

LEGEND

COLOR CODE TIA/EIA 598-B

(1)	BLUE	(7)	RED
(2)	ORANGE	(8)	BLACK
(3)	GREEN	(9)	YELLOW
(4)	BROWN	(10)	VIOLET
(5)	SLATE	(11)	ROSE
(6)	WHITE	(12)	AQUA

X = FUSION SPLICE INDIVIDUAL FIBER

C = CAP AND SEAL

BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR

EXPRESS = EXPRESS ENTIRE BUFFER TUBE/FIBERS THROUGH WIHTOUT CUTTING

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750 N. Greenfield Pkwy., Garner, NC 27529

Communications Cable and Conduit Routing Plans
FIBER CABLE SPLICING DETAILS

Division 9 Forsyth County Winston-Salem

PLAN DATE: MAY 2020 REVIEWED BY:

PREPARED BY: SAMUEL CULLUM REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043571 ENGINEER SAMUEL I CULLUM

Samuel Cullum 2/21/2022
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SIG. INVENTORY NO. 09-0022

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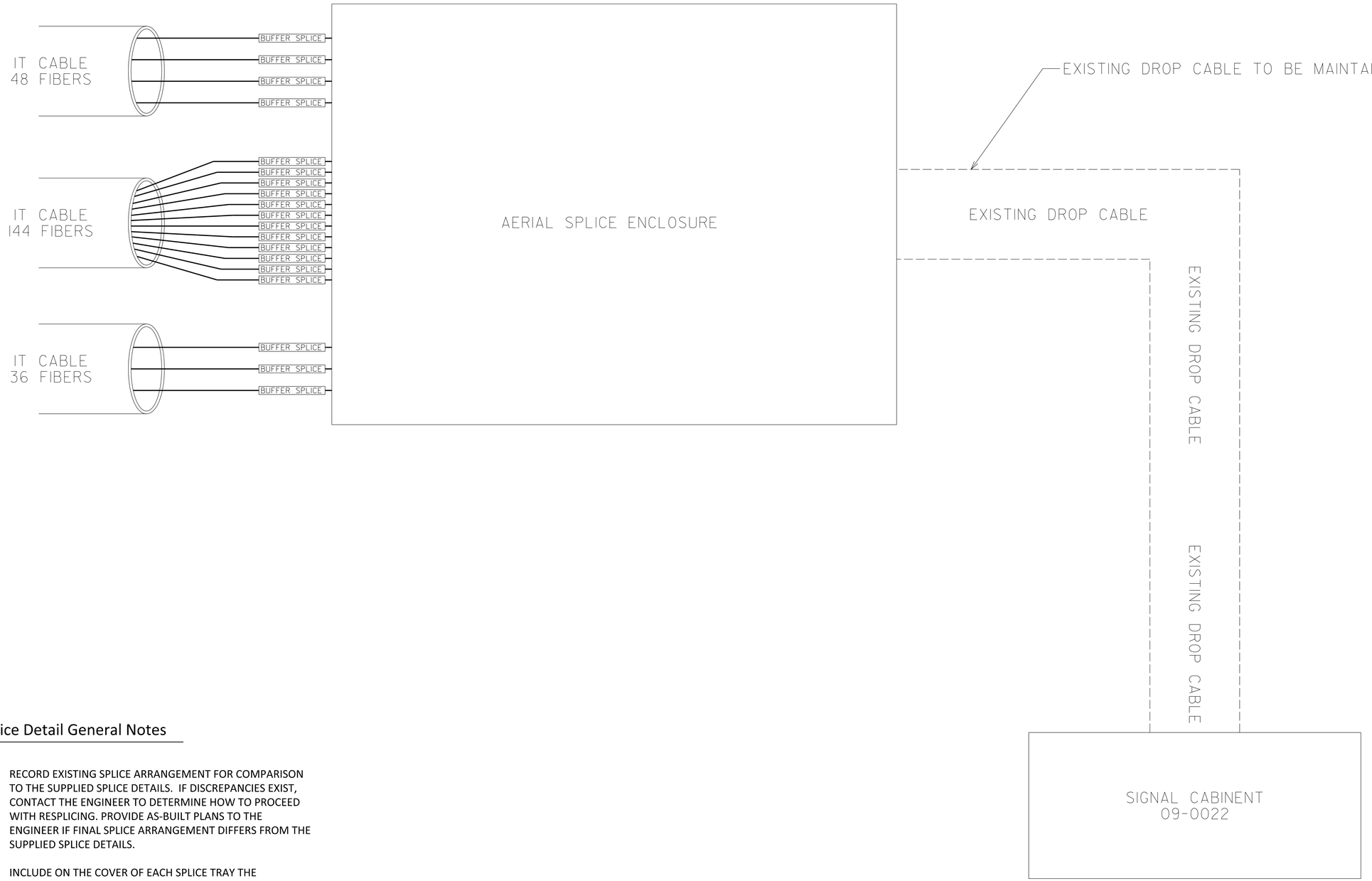
tdebone

PROJECT REFERENCE NO.	SHEET NO.
B-5770	SCP-4



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Communications Cable and Conduit Routing Plans
FIBER CABLE SPLICING DETAILS

Divsion 9 Forsyth County Winston-Salem

PLAN DATE:	MAY 2020	REVIEWED BY:	
PREPARED BY:	SAMUEL CULLUM	REVIEWED BY:	

REVISIONS	INIT.	DATE

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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 043571 ENGINEER SAMUEL L CULLUM

Samuel Cullum 2/21/2022
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