

- 1 INSTALL COAX CABLE
- 2 INSTALL ETHERNET CABLE
- 3 EXISTING ETHERNET (OR COAX) CABLE
- 4 INSTALL SMFO CABLE
- 5 EXISTING SMFO CABLE
- 6 INSTALL FIBER OPTIC DROP CABLE ASSEMBLY
- 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 STUB-OUTS
- 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 INSTALL NEW ETHERNET EDGE SWITCH
- 27 INSTALL NEW FIBER OPTIC TRANSCEIVER
- 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 EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE
- 32 INSTALL POLE MOUNTED SPLICE CABINET
- 33 INSTALL BASE MOUNTED SPLICE CABINET

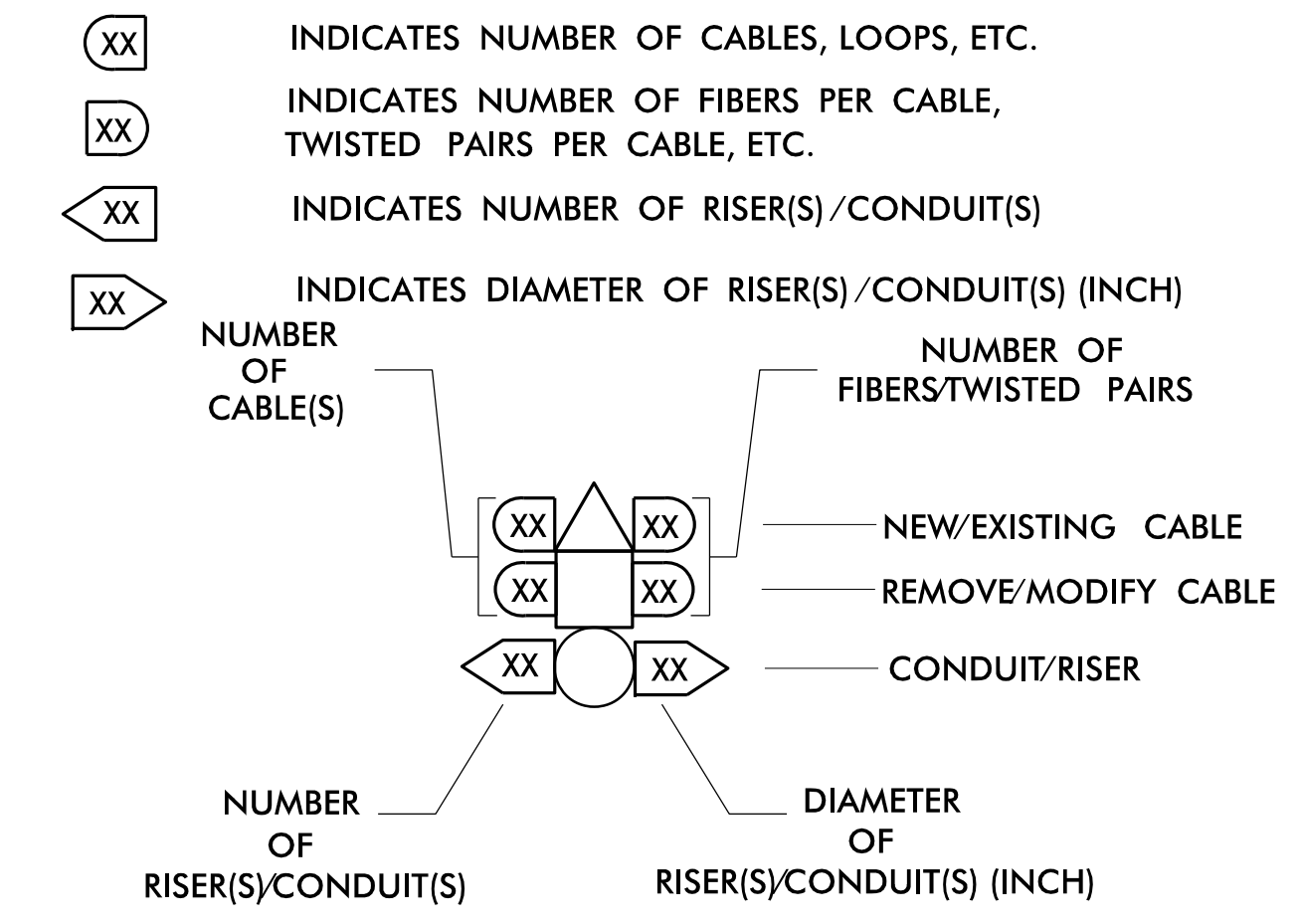
- 34 INSTALL CABINET FOUNDATION
- 35 INSTALL CCTV CAMERA POLE MOUNTED CABINET
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40A INSTALL OVERSIZED JUNCTION BOX
- 40B INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")
- 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
- 48A REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE
- 48B REMOVE EXISTING COMMUNICATIONS CABLE
- 49 BACK PULL EXISTING COMMUNICATIONS CABLE
- 50 INSTALL CELL MODEM AND ANTENNA
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52A INSTALL DELINEATOR MARKER
- 52B INSTALL JUNCTION BOX MARKER
- 53A STORE 20 FEET OF COMMUNICATIONS CABLE
- 53B STORE 50 FEET OF EACH COMMUNICATIONS CABLE
- 54 LASH CABLE(S) TO EXISTING 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 INSTALL NEW EQUIPMENT CABINET DISCONNECT
- 60 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 61 BOND RISER AND MESSENGER CABLE TO POLE GROUND
- 62 BOND RISER TO POLE GROUND
- 63 BOND MESSENGER CABLE TO POLE GROUND
- 64 INSTALL HEAT SHRINK TUBING RETROFIT KIT
- 65 INSTALL MOLDABLE DUCT SEAL
- 67 SLACK SPAN

LEGEND

	NEW FIBER OPTIC COMMUNICATIONS CABLE
	EXISTING COMMUNICATIONS CABLE
	EXISTING COMMUNICATIONS CABLE TO BE REMOVED
	NEW AERIAL GUY ASSEMBLY
	NEW CONDUIT
	EXISTING CONDUIT
	NEW DIRECTIONAL DRILLED CONDUIT

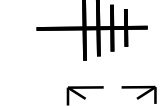

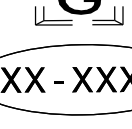
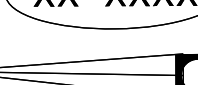


NEW		EXISTING
	OVERSIZED JUNCTION BOX	
	WOOD POLE	
	AERIAL SPLICE ENCLOSURE	
	UNDERGROUND SPLICE ENCLOSURE	
	METAL POLE	
	CCTV ASSEMBLY	
	STANDARD GUY ASSEMBLY	
	SIDEWALK GUY ASSEMBLY	
	CABLE STORAGE RACKS (SNOW SHOES)	
	SIGNAL/EQUIPMENT CABINET	
	SPLICE CABINET	
	FLAT PANEL ANTENNA (SINGLE)	
	YAGI ANTENNA (DOUBLE) FOR REPEATER OPERATION	
	YAGI ANTENNA (SINGLE)	
	OMNI ANTENNA	
	SIGNAL POLE	
	SIGNAL INVENTORY NUMBER	

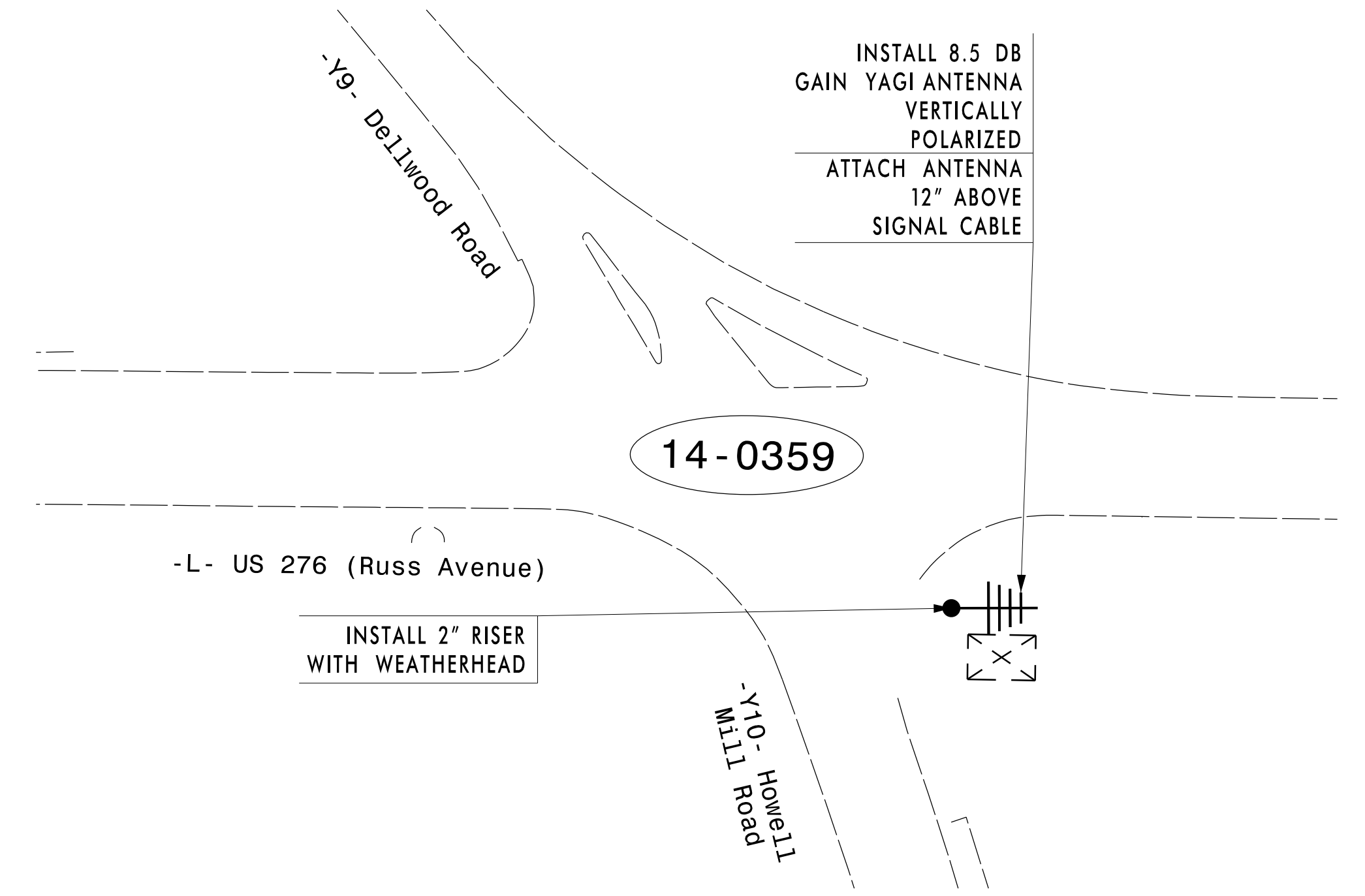
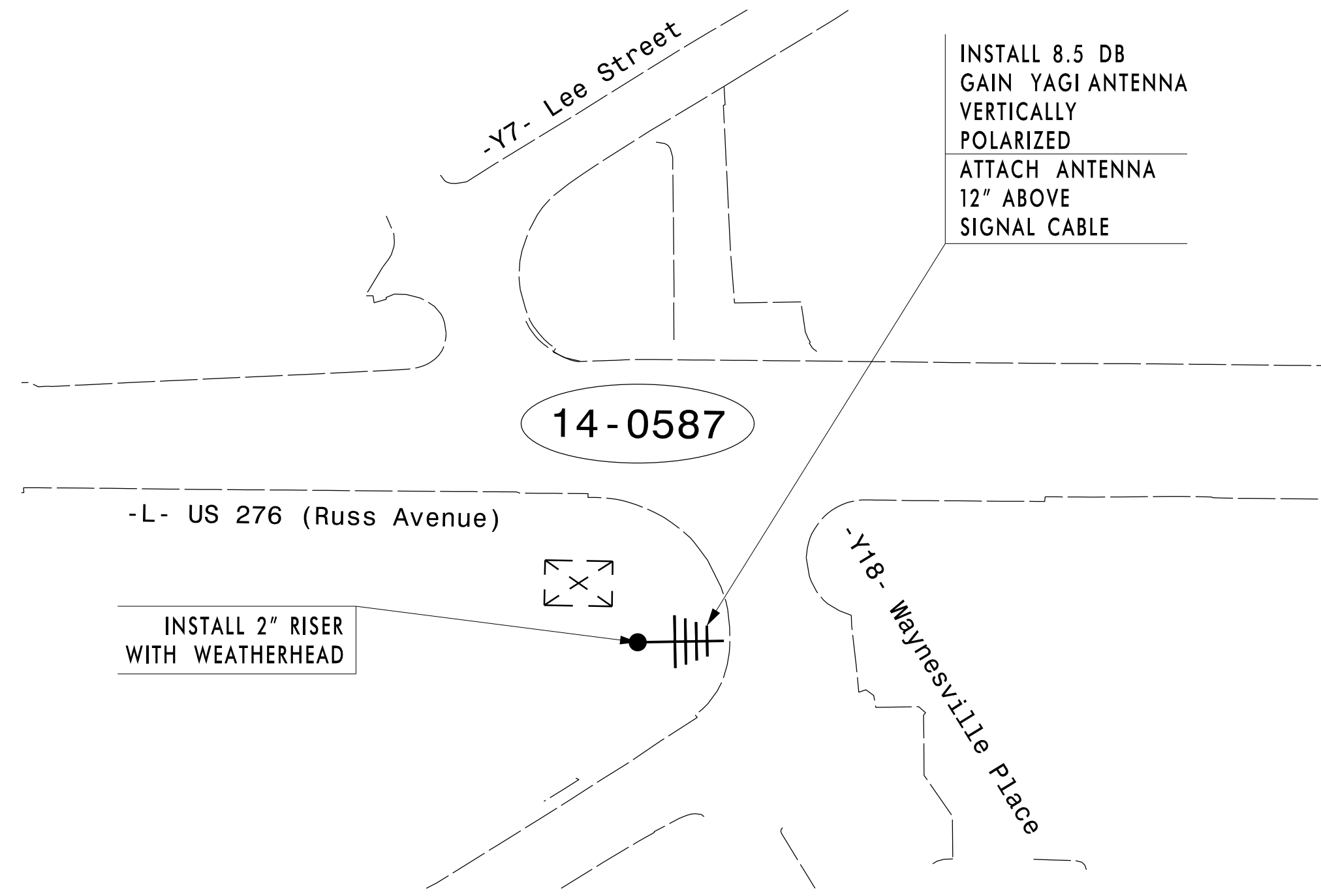
CONSTRUCTION NOTE SYMBOLOGY KEY



	CONSTRUCTION NOTES		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
	Division 14 Haywood County Waynesville PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton PREPARED BY: TS Popelka RKA PROJ. NO.: 16085 (041)	REVISIONS INIT. DATE	

LEGEND

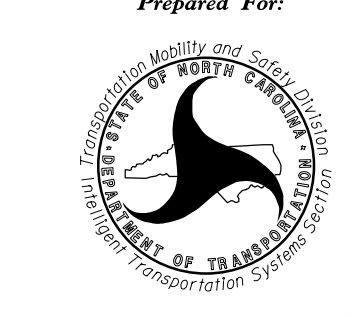

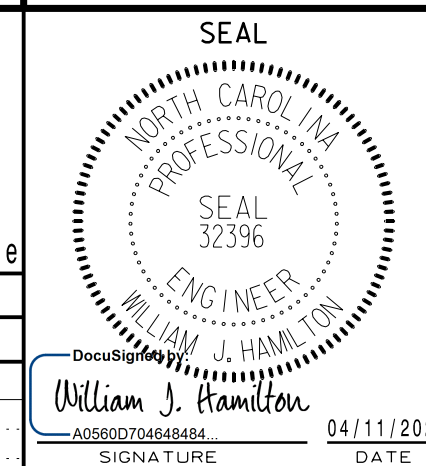
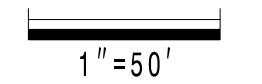
	YAGI ANTENNA (SINGLE)
	EXISTING CONTROLLER AND CABINET
	EXISTING GATEWAY RADIO LOCATION
	SIGNAL INVENTORY NUMBER
	EXISTING METAL POLE W/MAST ARM
	EXISTING WOOD POLE



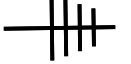
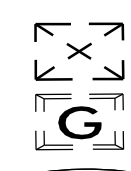
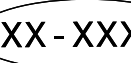



WIRELESS NOTES:

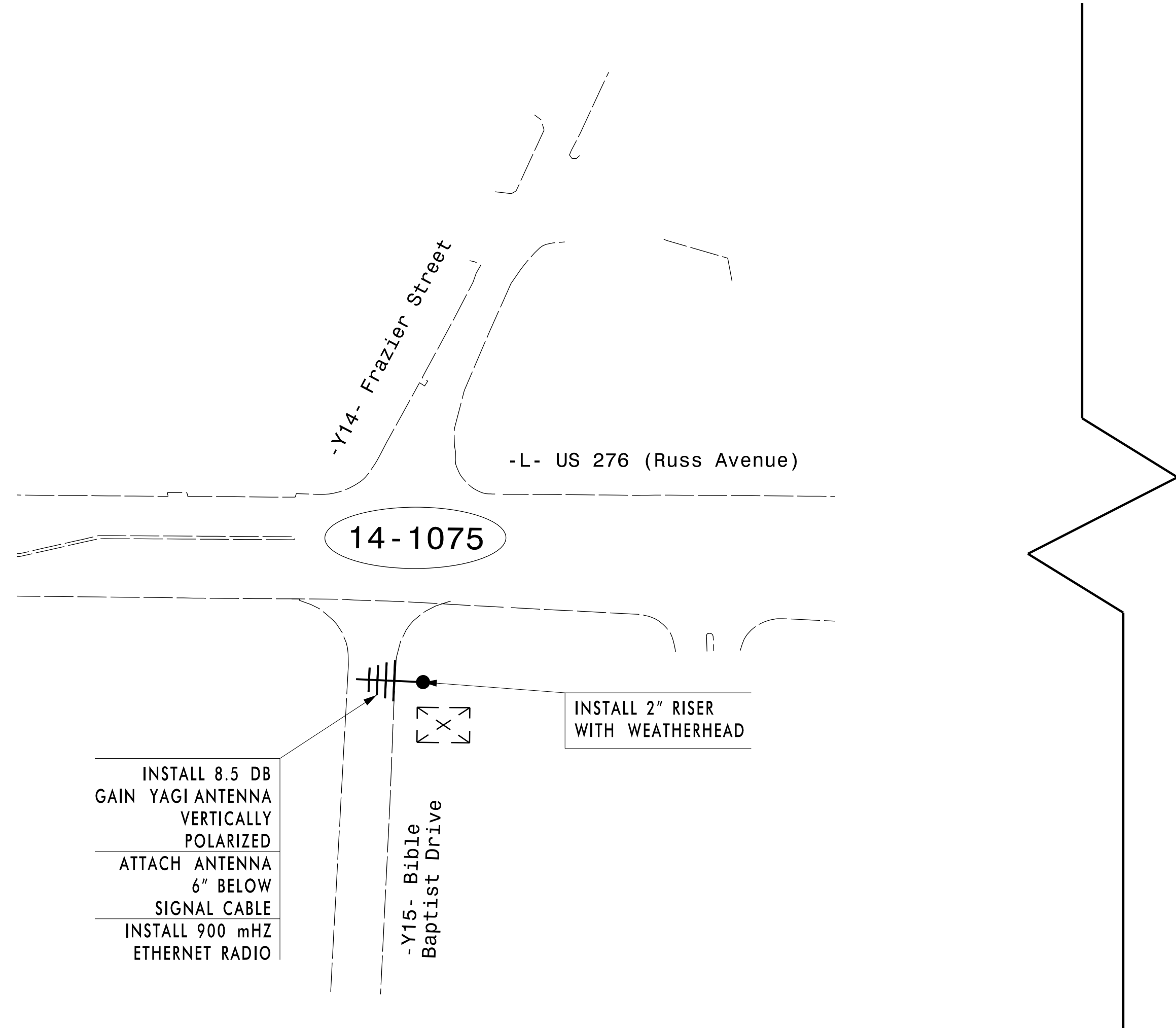
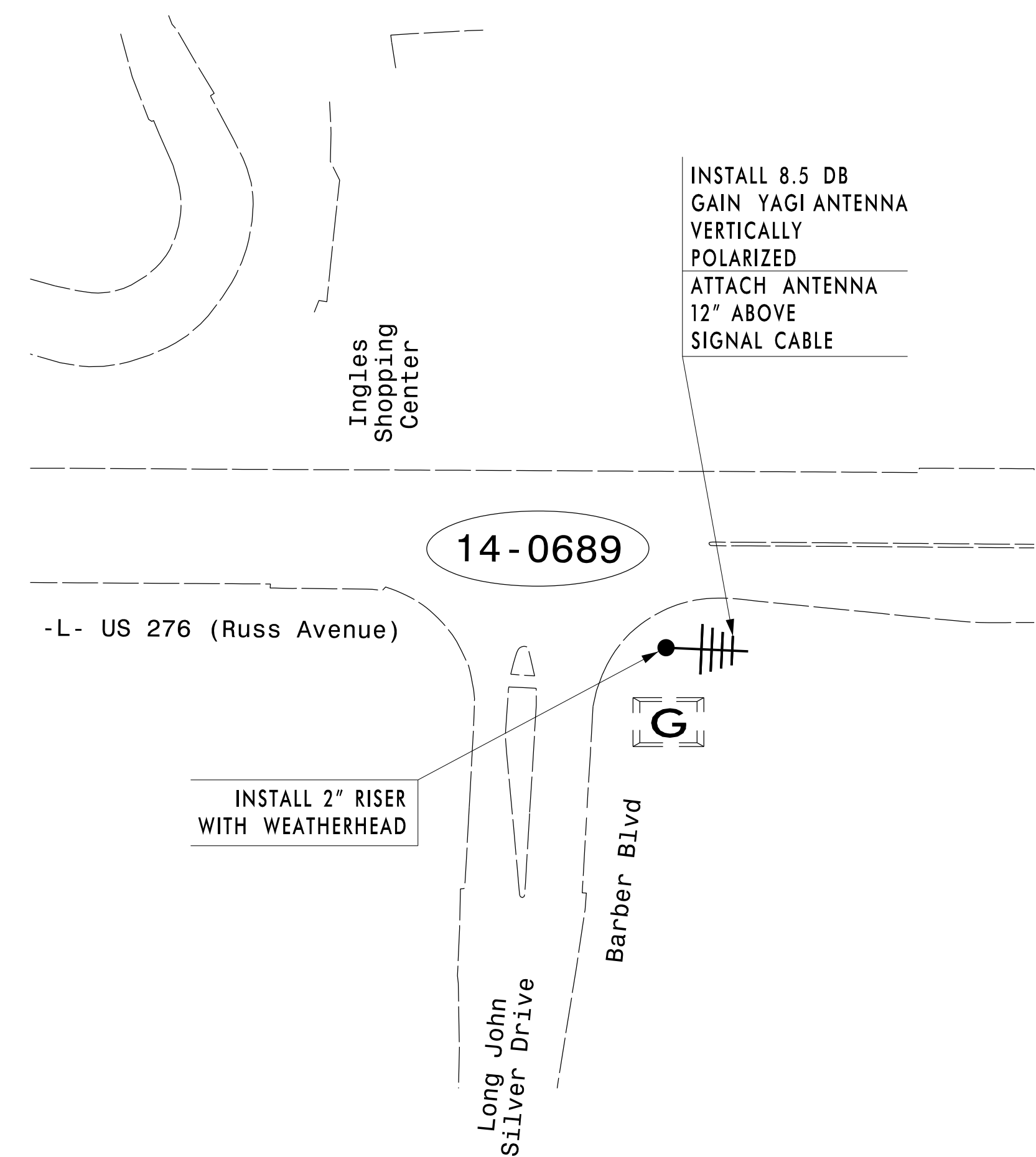
- 1) INSTALL COAXIAL CABLE
 - A. ON WOOD POLE, REQUIRING A NEW RIGID GALVANIZED STEEL RISER
INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL
CABLE TO THE ANTENNA.
- 2) IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE,
INSTALL THE COAXIAL CABLE IN THE SPARE RISER WITHIN 2" WEATHERHEAD.
- 3) INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN. (NOTE: RF
WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-
OWNED POLE.)
- 4) INSTALL WIRELESS RADIO WITH EXTERIOR DISCONNECT SWITCH LOCATED ON
CABINET. (NOTE: RF ANTENNA DISCONNECT SWITCH AND DECAL ARE NOT
REQUIRED WHEN THE ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.
- 5) MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE MANUAL
ELECTRICAL SAFETY CODE.
- 6) REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS."

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4/8/2023 10:11 AM ET

Prepared For:  750 N. Greenfield Pkwy., Garner, NC 27529		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TMP Phase I			
Infrastructure Consulting Services, Inc.  RAMEY KEMP ASSOCIATES <small>8219 University Executive Park Drive Suite 200 Charlotte, North Carolina 28262 Phone: 704-549-4200 www.rameykemp.com NC License No. F-1489</small>		Division 14 Haywood County Waynesville D14-12_Waynesville Wireless Communication Plans	
PLAN DATE: April 2023	REVIEWED BY: WJ Hamilton	 William J. Hamilton <small>415500704648484 04/11/2023</small>	
PREPARED BY: TS Popelka	RKA PROJ. NO: 16085 (041)	REVISIONS	DATE
SCALE: 1" = 50' 		INIT.	DATE

LEGEND

-  YAGI ANTENNA (SINGLE)
-  EXISTING CONTROLLER AND CABINET
-  EXISTING GATEWAY RADIO LOCATION
-  SIGNAL INVENTORY NUMBER
-  EXISTING METAL POLE W/MAST ARM
-  EXISTING WOOD POLE



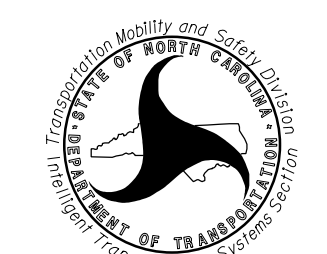
WIRELESS NOTES:

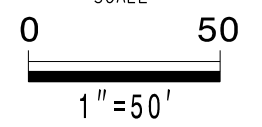
- 1) INSTALL COAXIAL CABLE
 - A. ON WOOD POLE, REQUIRING A NEW RIGID GALVANIZED STEEL RISER INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
- 2) IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER WITHIN 2" WEATHERHEAD.
- 3) INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN. (NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- 4) INSTALL WIRELESS RADIO WITH EXTERIOR DISCONNECT SWITCH LOCATED ON CABINET. (NOTE: RF ANTENNA DISCONNECT SWITCH AND DECAL ARE NOT REQUIRED WHEN THE ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- 5) MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE MANUAL ELECTRICAL SAFETY CODE.
- 6) REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS."

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Infrastructure Consulting Services, Inc. and
RKA
 RAMEY KEMP ASSOCIATES
 8219 University Executive Park Drive Suite 200 Charlotte, North Carolina 28262
 Phone: 704-549-4280 | www.ramkemp.com | NC License No. F-1489

TMP Phase I

Prepared For:

 750 N. Greenfield Place, Garner, NC 27529

SCALE

 1" = 50'

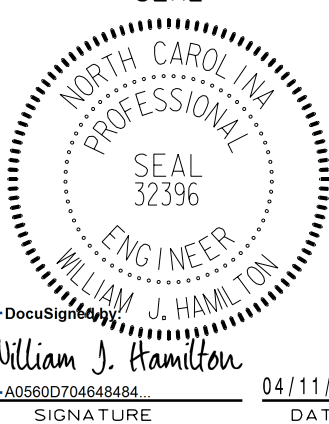
D14-12_Waynesville
 Wireless Communication Plans

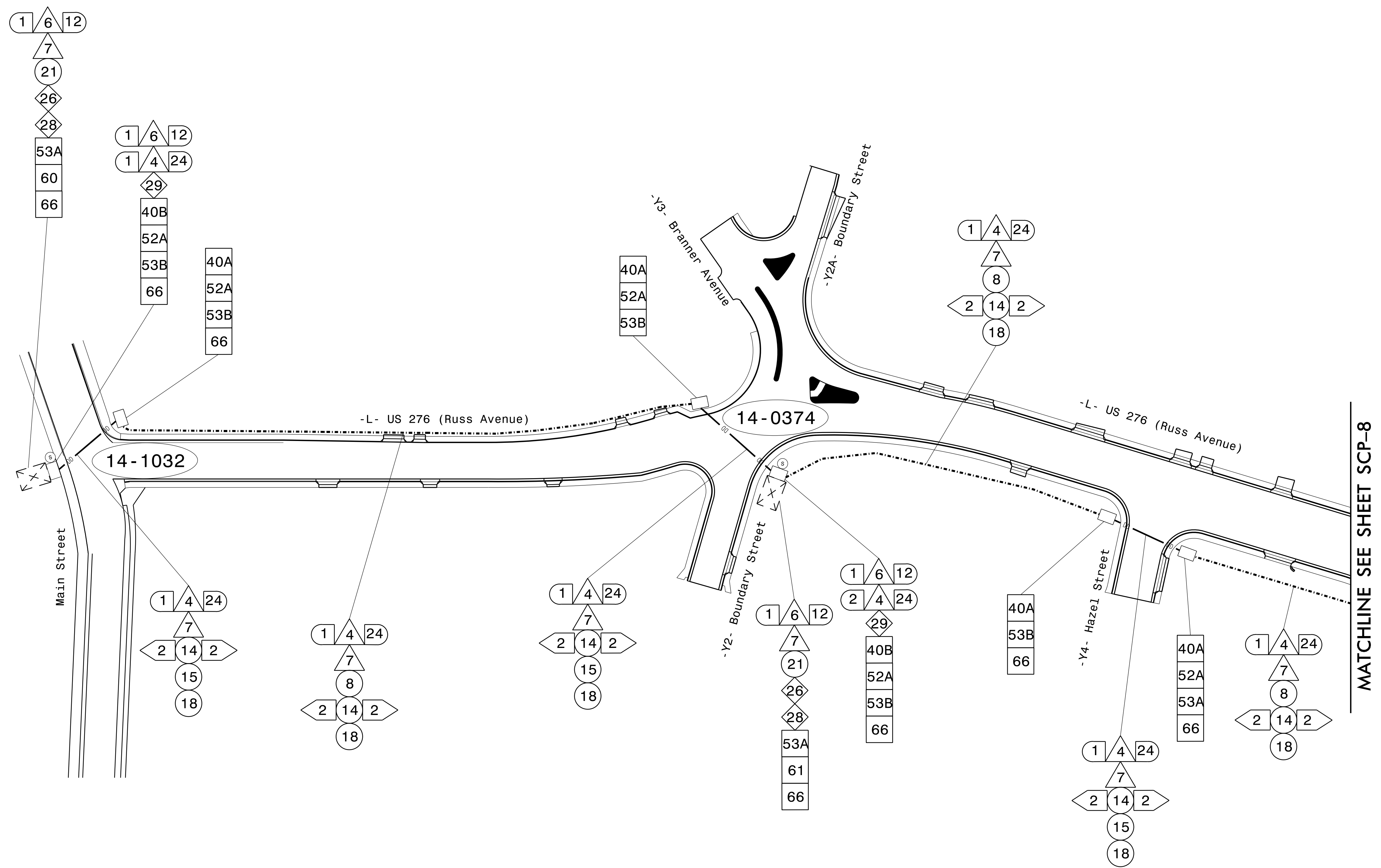
Division 14 Haywood County Waynesville

PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton
 PREPARED BY: TS Popelka RKA PROJ. NO: 16085 (041)

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

SEAL

 WILLIAM J. HAMILTON
 4486650704848484
 04/11/2023
 SIGNATURE DATE



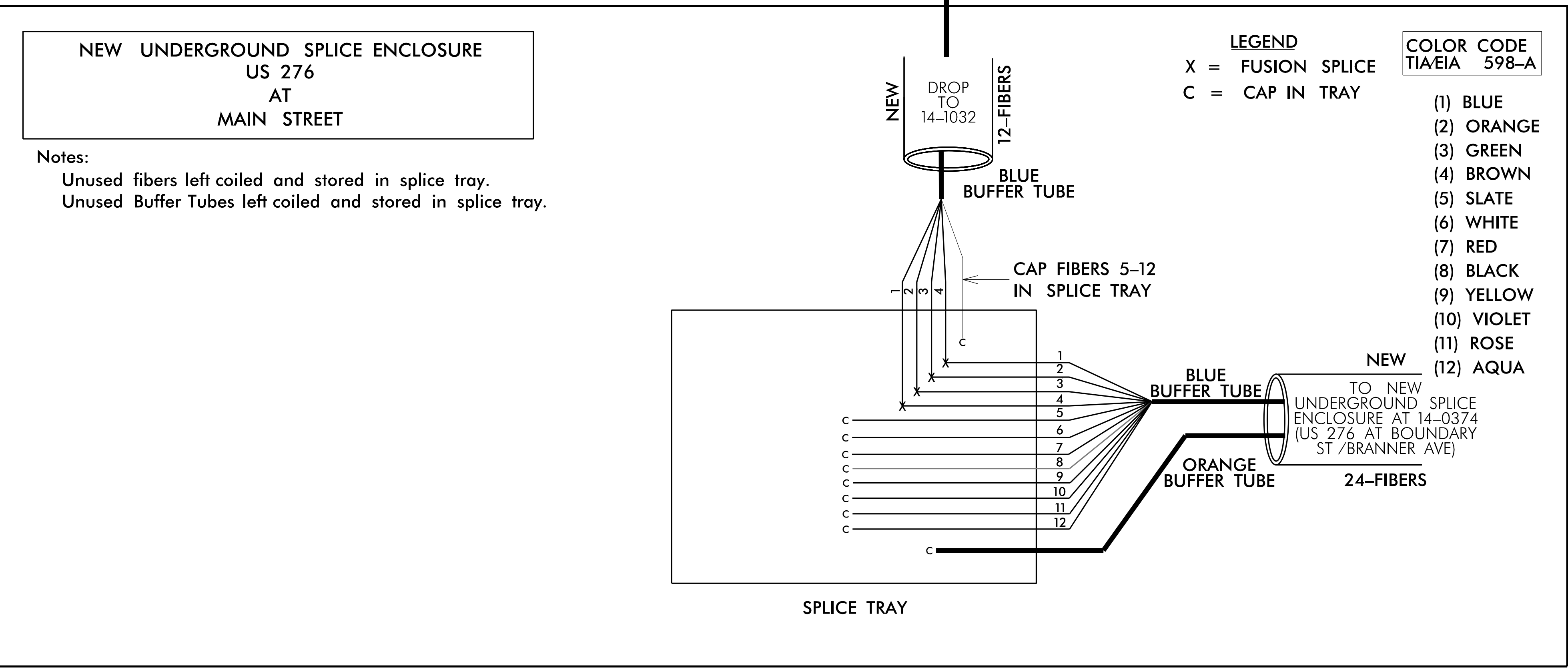
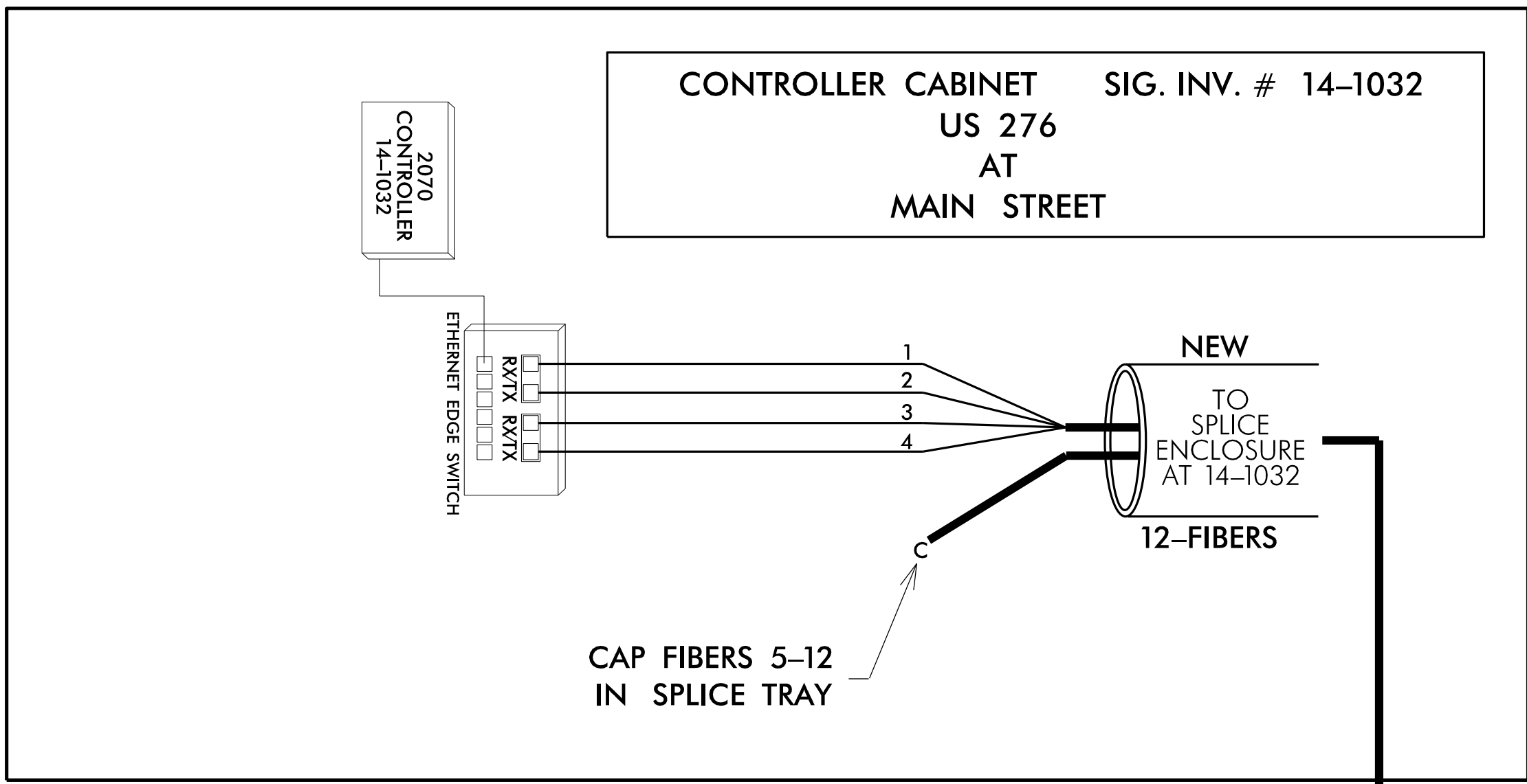
- NOTES:**
- 1) NOTIFY THE DIVISION 14 TRAFFIC ENGINEER AT (828) 631-1185 FIVE (5) DAYS PRIOR TO BEGINNING WORK ON SIGNAL SYSTEM COMMUNICATIONS CABLE. NOTIFY THE ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. ALL WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
 - 2) CONTRACTOR TO 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.
 - 3) ALL NCDOT FIBER ATTACHMENT POINTS ARE 40" BELOW POWER, FRONT SIDE OF POLE, UNLESS NOTED OTHERWISE.
 - 4) ONCE FIBER OPTIC CABLE HAS BEEN INSTALLED AND THE SYSTEM IS UP AND OPERATIONAL, REMOVE THE WIRELESS EQUIPMENT AND CONTACT THE DIVISION 14 TRAFFIC ENGINEER AT (828) 631-1185 AND RETURN THE WIRELESS EQUIPMENT.

Final Design



	<p>Prepared For:</p> <p>D14-12 Waynesville Cable Routing Plans</p>			
	Division 14 Haywood County Waynesville	PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton		
	PREPARED BY: TS Popelka	RKA PROJ. NO: 16085 (041)		
SCALE: 1"=50'	REVISIONS	INIT.	DATE	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			SEAL WILLIAM J. HAMILTON PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA LICENSE NO. 32396 SIGNATURE: <i>William J. Hamilton</i> DATE: 04/11/2023	

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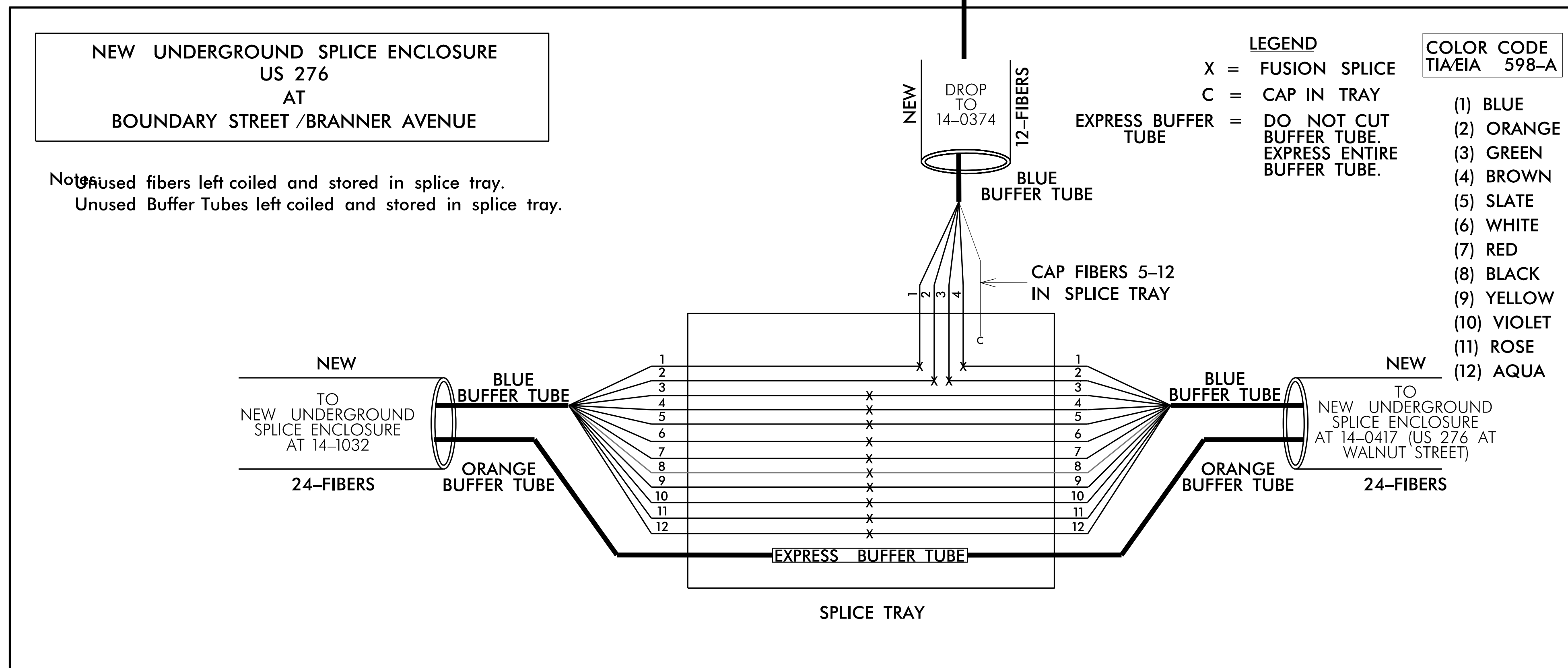
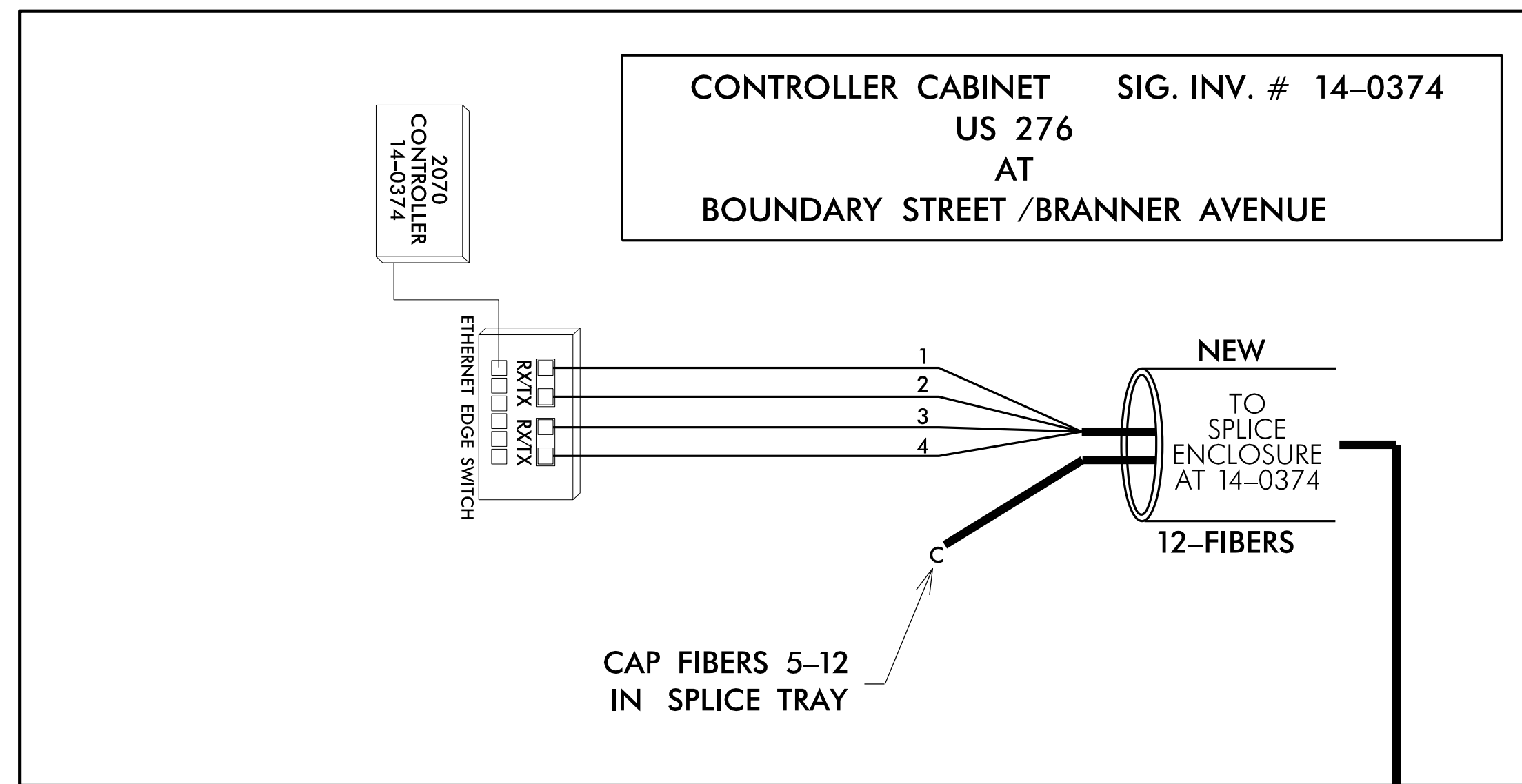
Notes:
 Unused fibers left coiled and stored in splice tray.
 Unused Buffer Tubes left coiled and stored in splice tray.

- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 14 TRAFFIC ENGINEER AT (828) 631-1185 TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE TOWN ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
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- 3) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
- 4) 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

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 OTDR TEST RESULTS.



Final Design		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	SPLICE DETAIL		
	Division 14 Haywood County Waynesville PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton PREPARED BY: TS Popelka RKA PROJ NO: 16085 (041)	REVISIONS INIT. DATE	



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Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

WILLIAM J. HAMILTON

04/11/2023

SEAL 32396

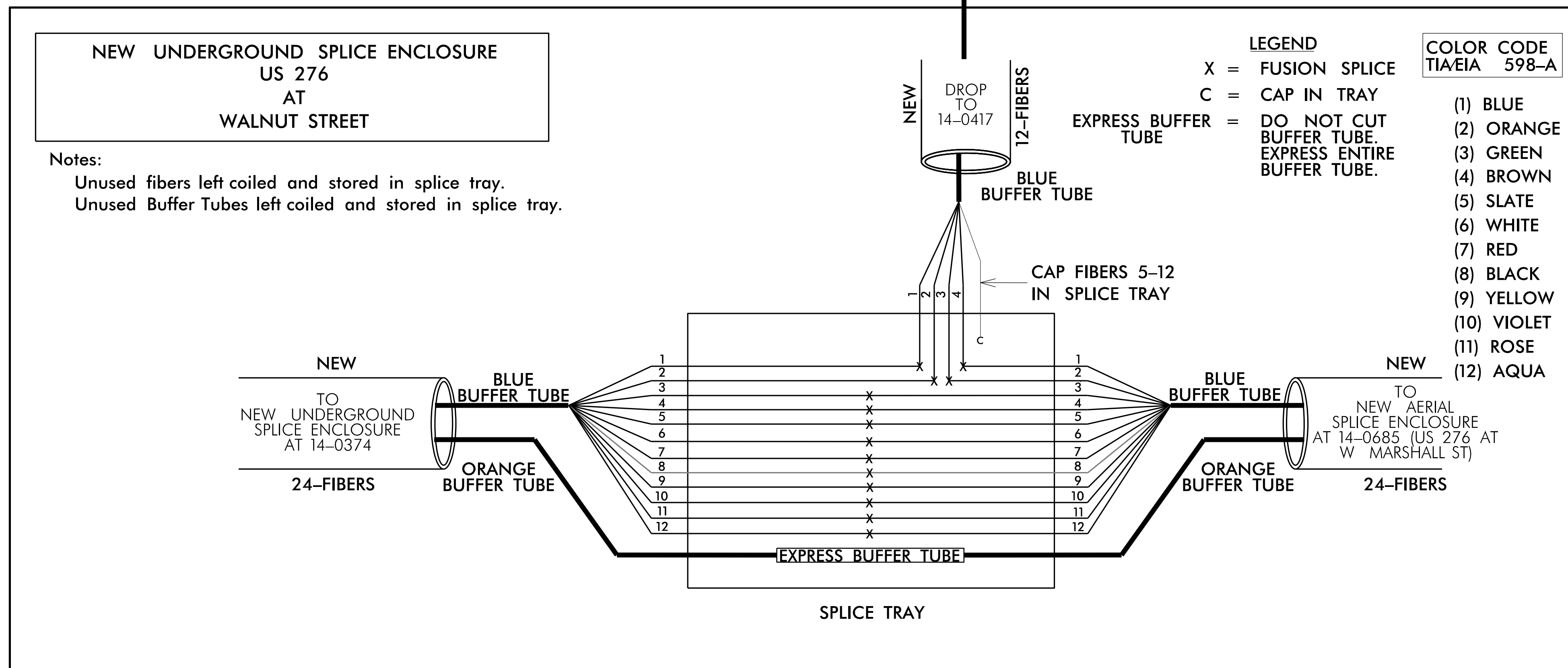
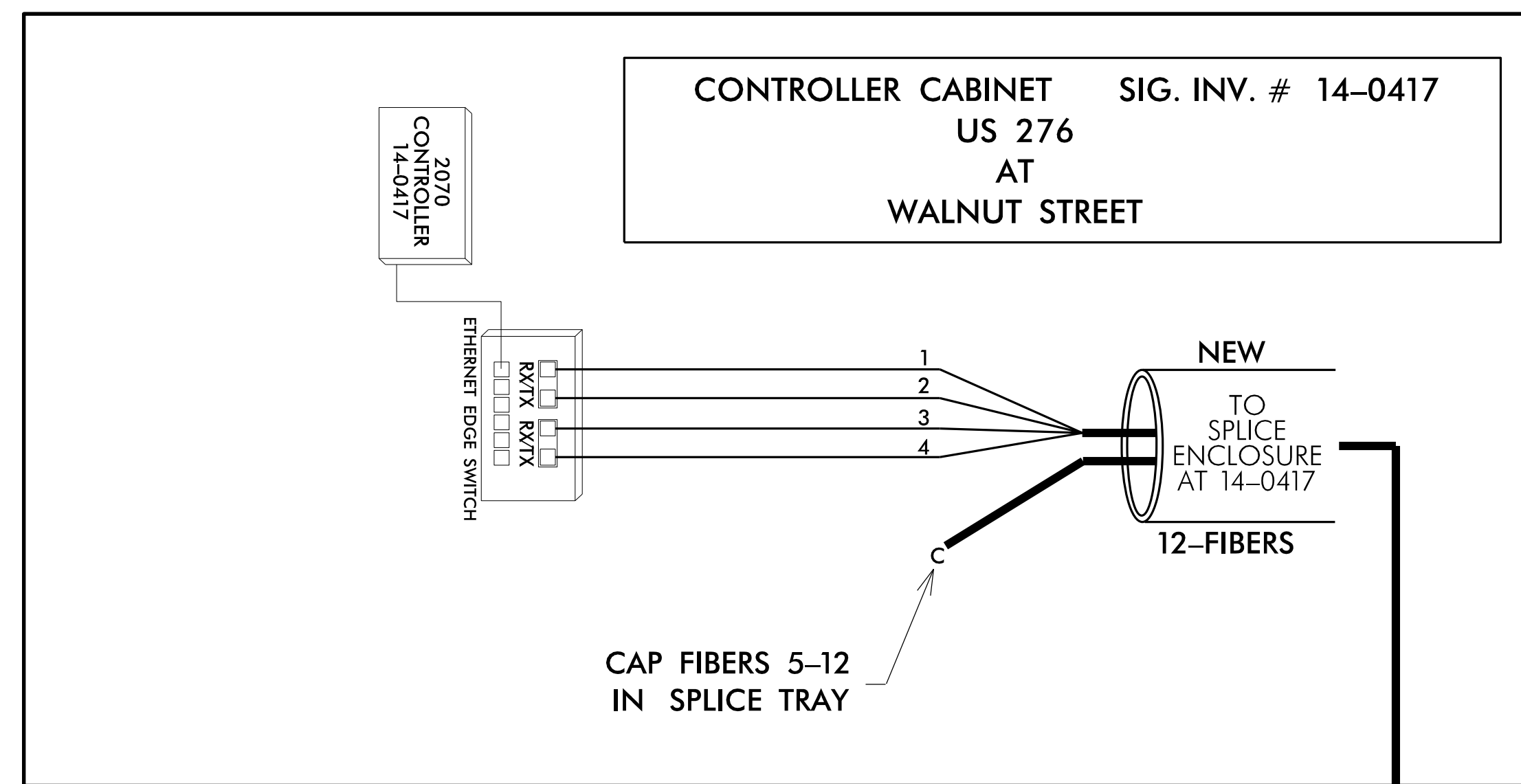
Division 14 Haywood County Waynesville

PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton

PREPARED BY: TS Popelka RKA PROJ NO: 16085 (041)

REVISIONS	INIT.	DATE

750 N. Greenfield Pkwy., Garner, NC 27529

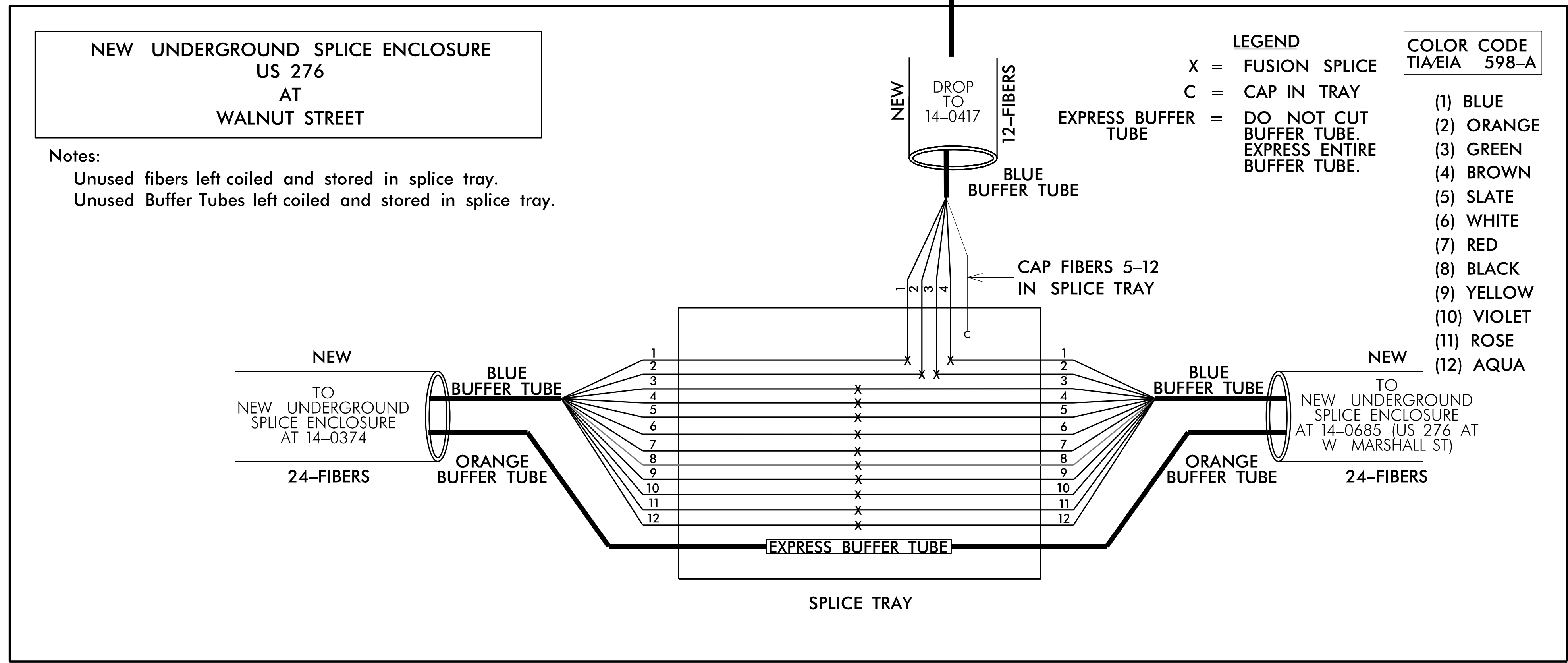
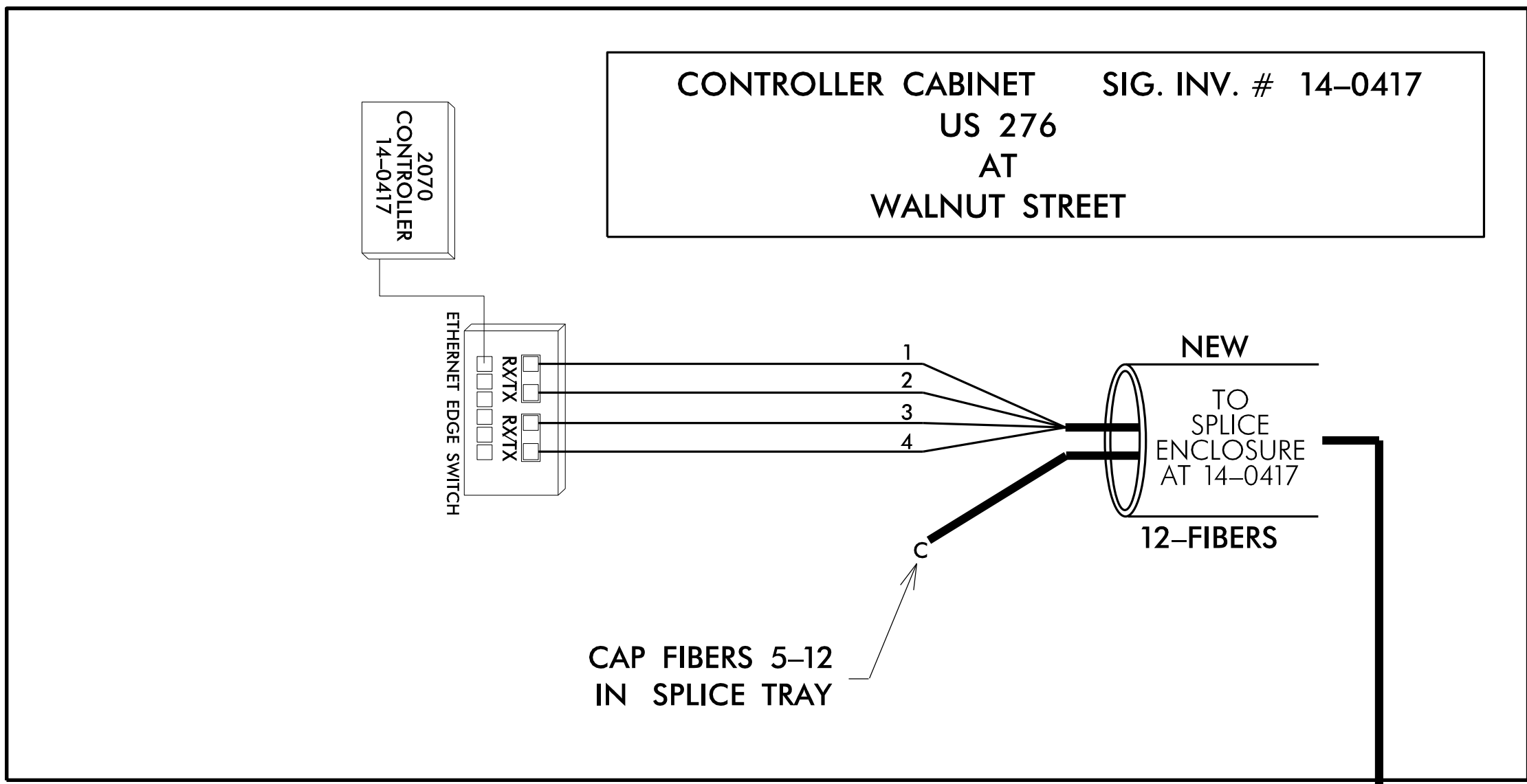


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Final Design		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	SPlice DETAIL		
	Division 14 Haywood County Waynesville PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton PREPARED BY: TS Popelka RKA PROJ NO: 16085 (041)		
750 N. Greenfield Pkwy., Garner, NC 27529 Ramey Kemp Associates 8210 University Executive Park Drive Suite 220 Charlotte, North Carolina 28226 Phone: 704-549-4260 www.rameykemp.com NC License No. F-1489	REVISIONS INIT. DATE	William J. Hamilton 04/11/2023	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER WILLIAM J. HAMILTON 32396 DATE



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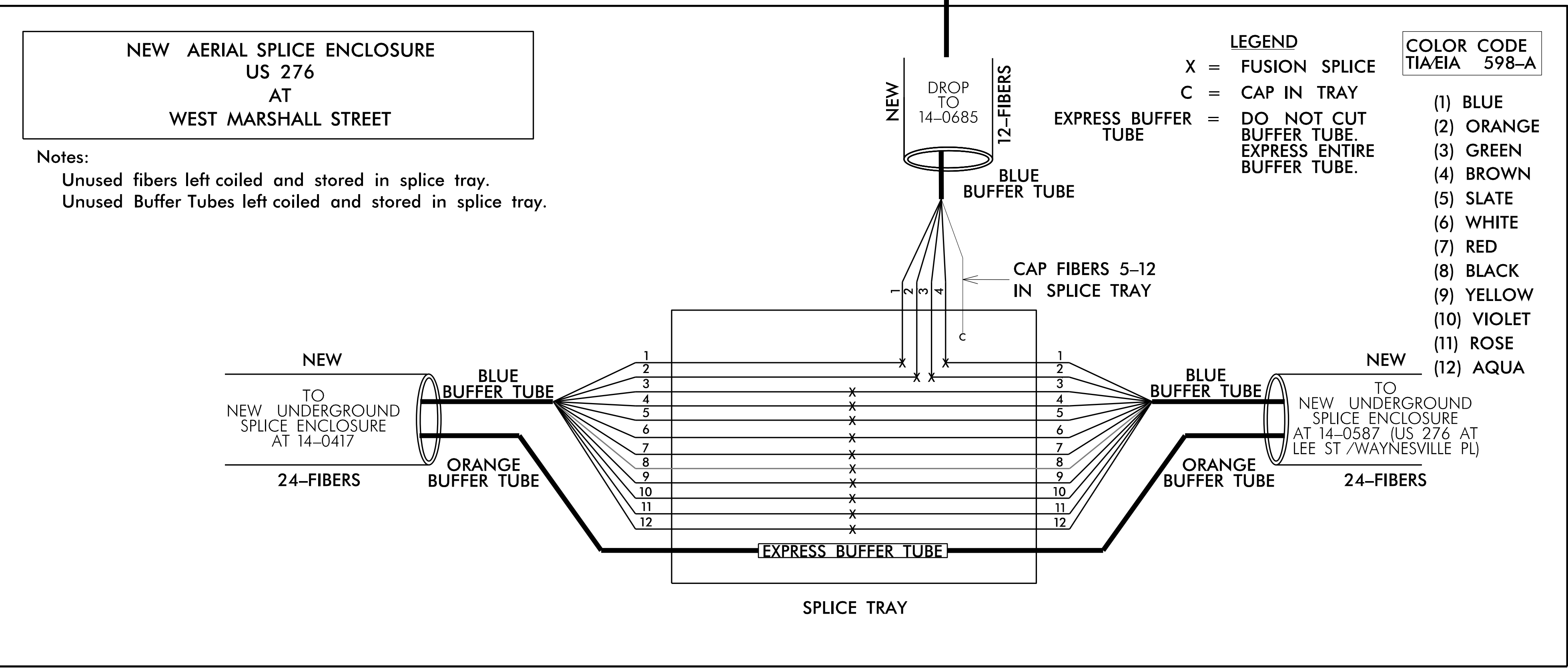
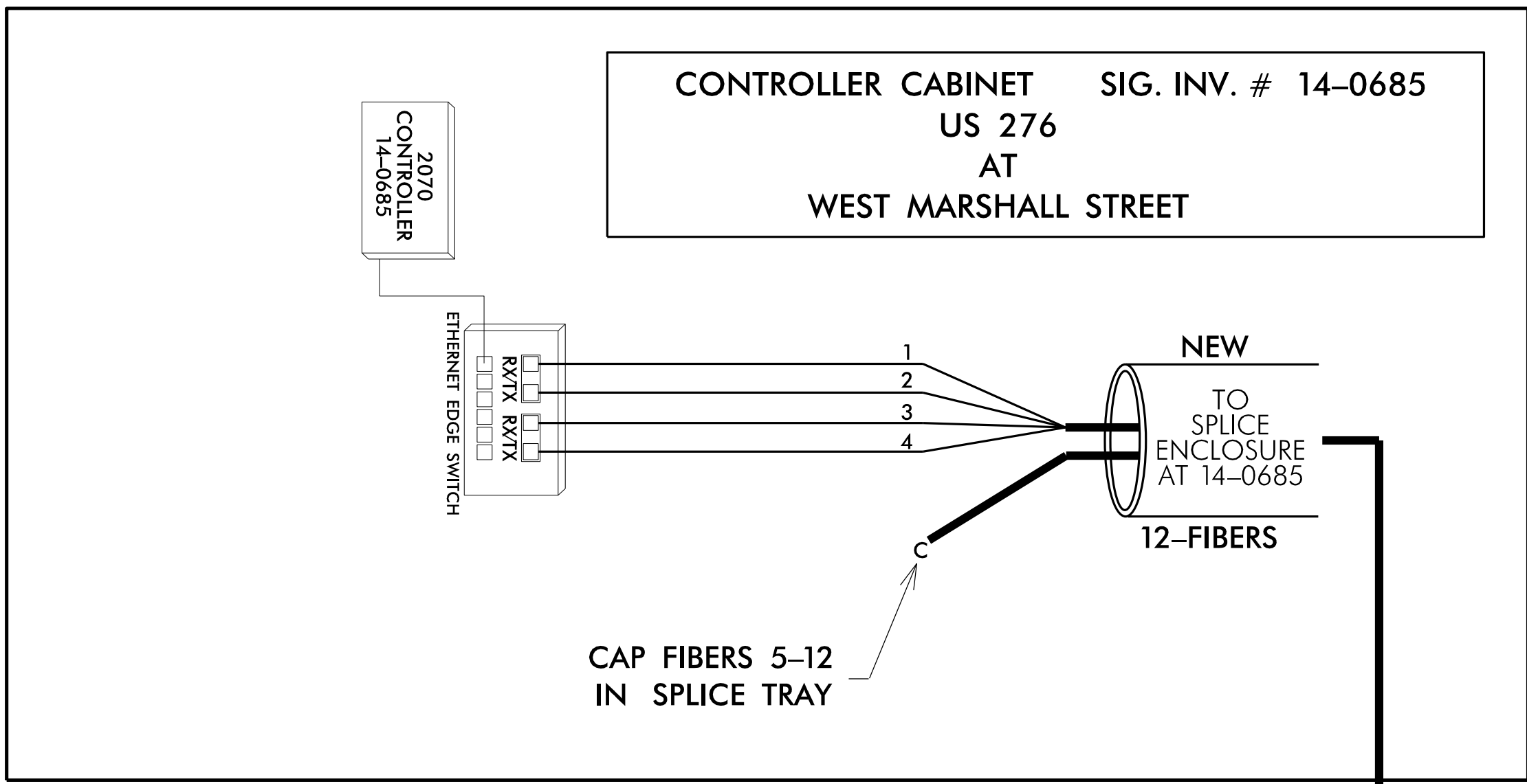
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Final Design

	SPLICE DETAIL	
	Division 14 Haywood County Waynesville PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton PREPARED BY: TS Popelka RKA PROJ NO: 16085 (041)	REVISIONS INIT. DATE
750 N. Greenfield Pkwy., Garner, NC 27529		SEAL DATE: 04/19/2023

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SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 32396

WILLIAM J. HAMILTON

DocuSigned by: William J. Hamilton 04/11/2023

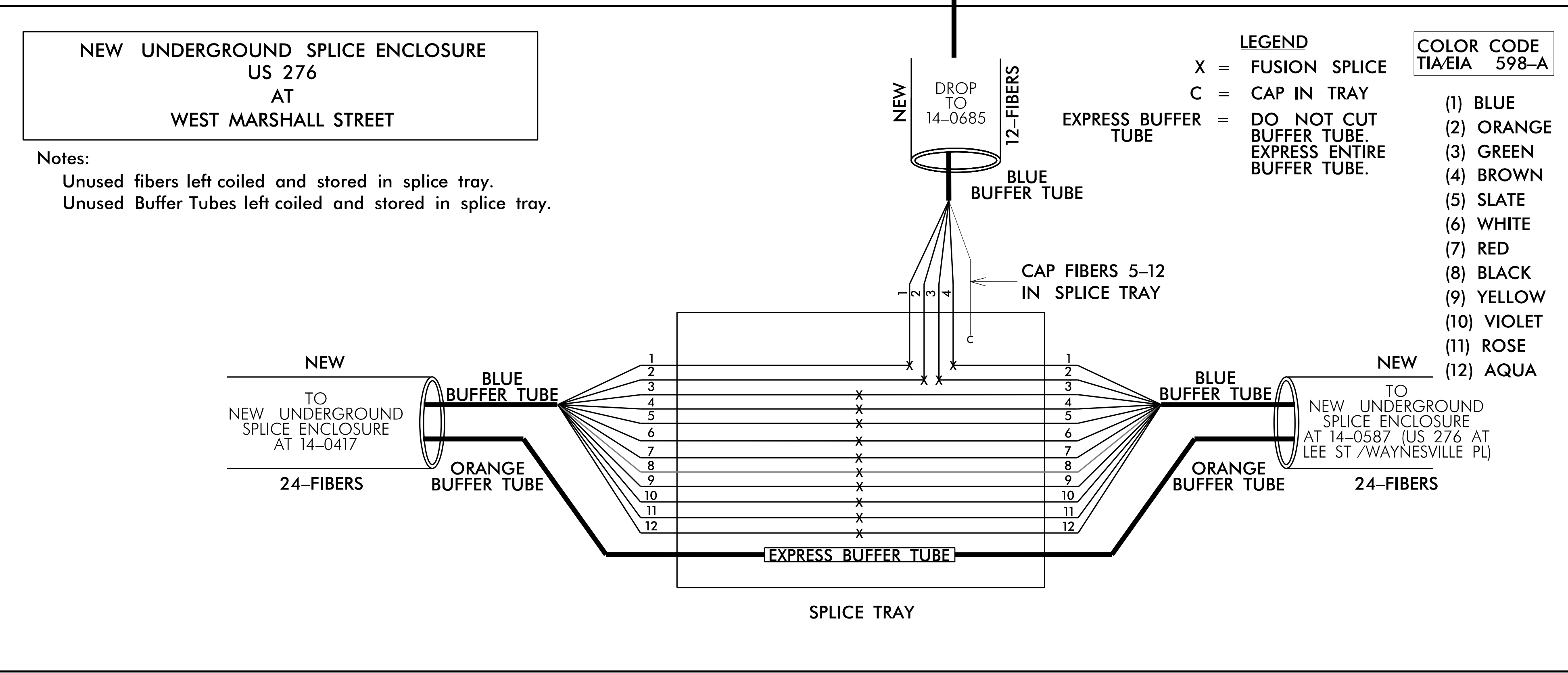
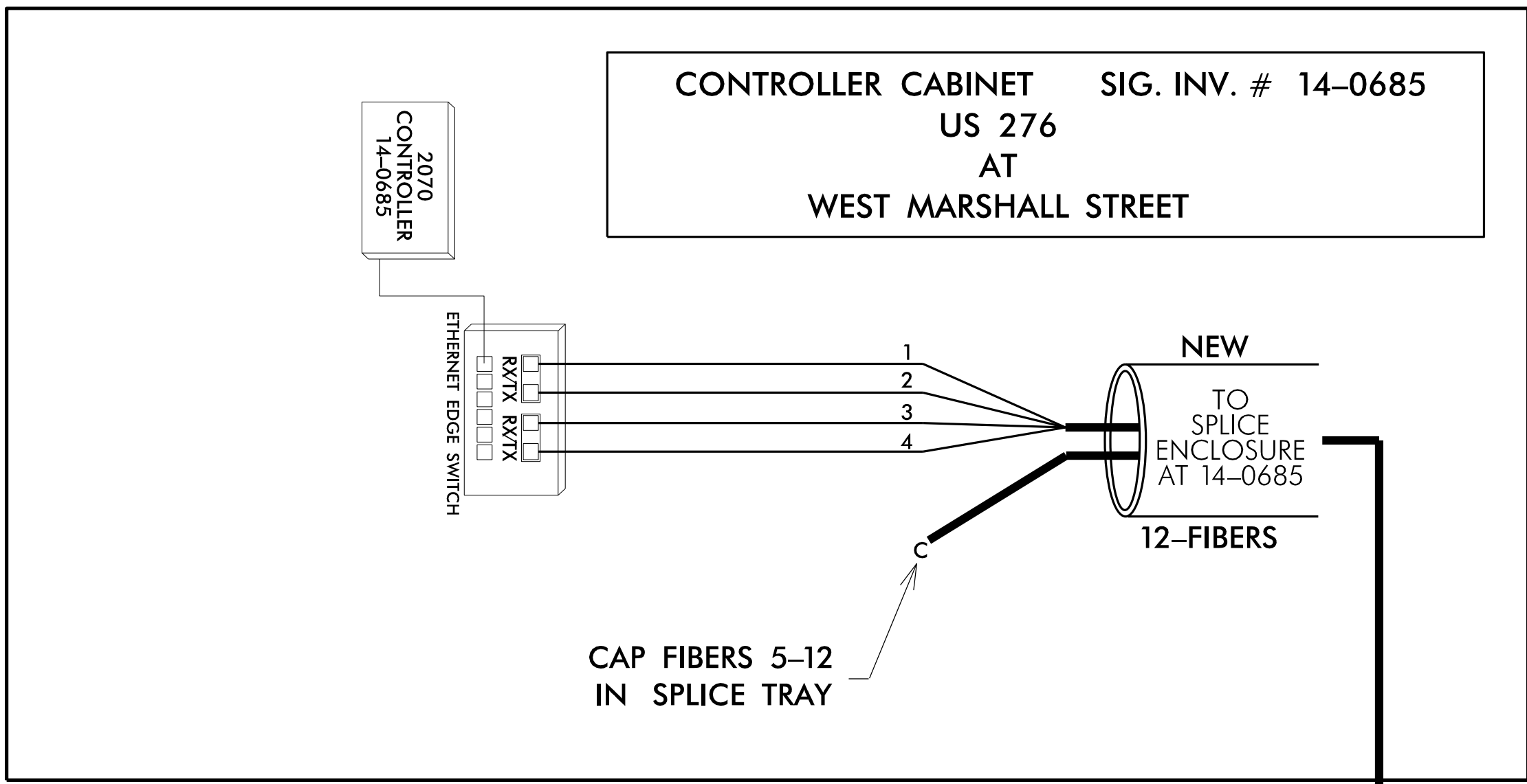
SPLICE DETAIL

Division 14 Haywood County Waynesville

PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton

PREPARED BY: TS Popelka RKA PROJ NO: 16085 (041)

REVISIONS	INIT.	DATE



- LEGEND**
 X = FUSION SPLICE
 C = CAP IN TRAY
 EXPRESS BUFFER TUBE = DO NOT CUT BUFFER TUBE. EXPRESS ENTIRE BUFFER TUBE.
- COLOR CODE TIA/EIA 598-A**
- (1) BLUE
 - (2) ORANGE
 - (3) GREEN
 - (4) BROWN
 - (5) SLATE
 - (6) WHITE
 - (7) RED
 - (8) BLACK
 - (9) YELLOW
 - (10) VIOLET
 - (11) ROSE
 - (12) AQUA

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SPLICE DETAIL

Division 14 Haywood County Waynesville

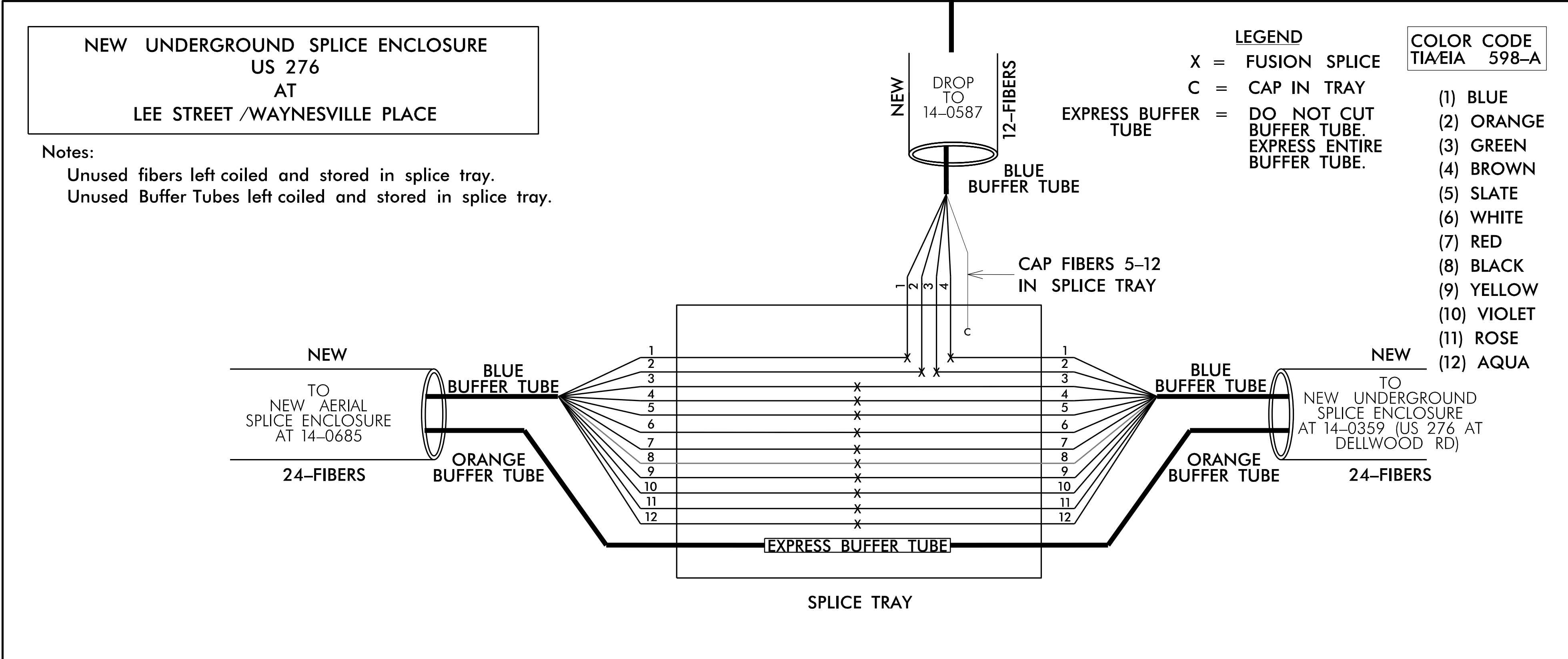
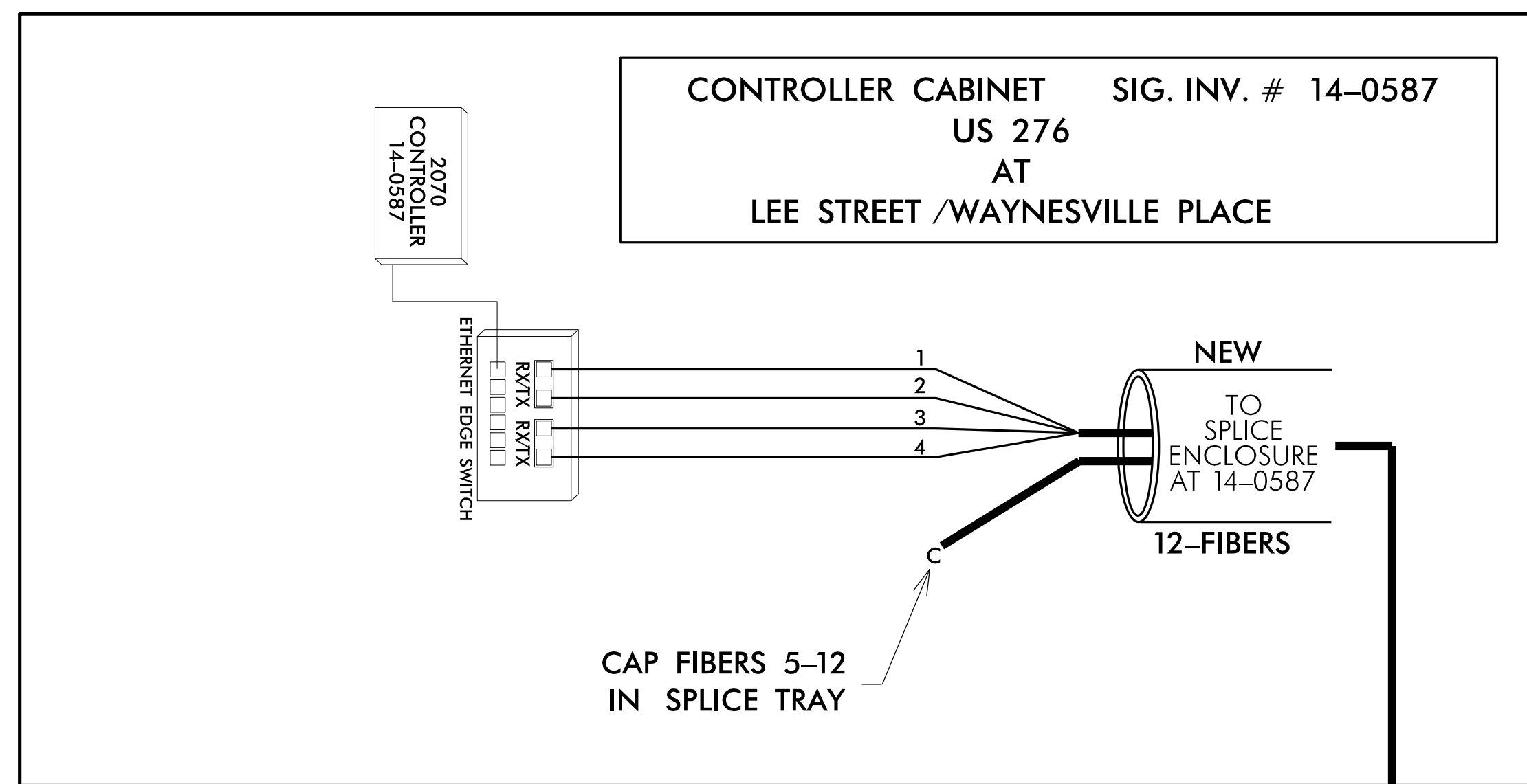
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DocuSigned by: William J. Hamilton 32396

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER WILLIAM J. HAMILTON 04/19/2023



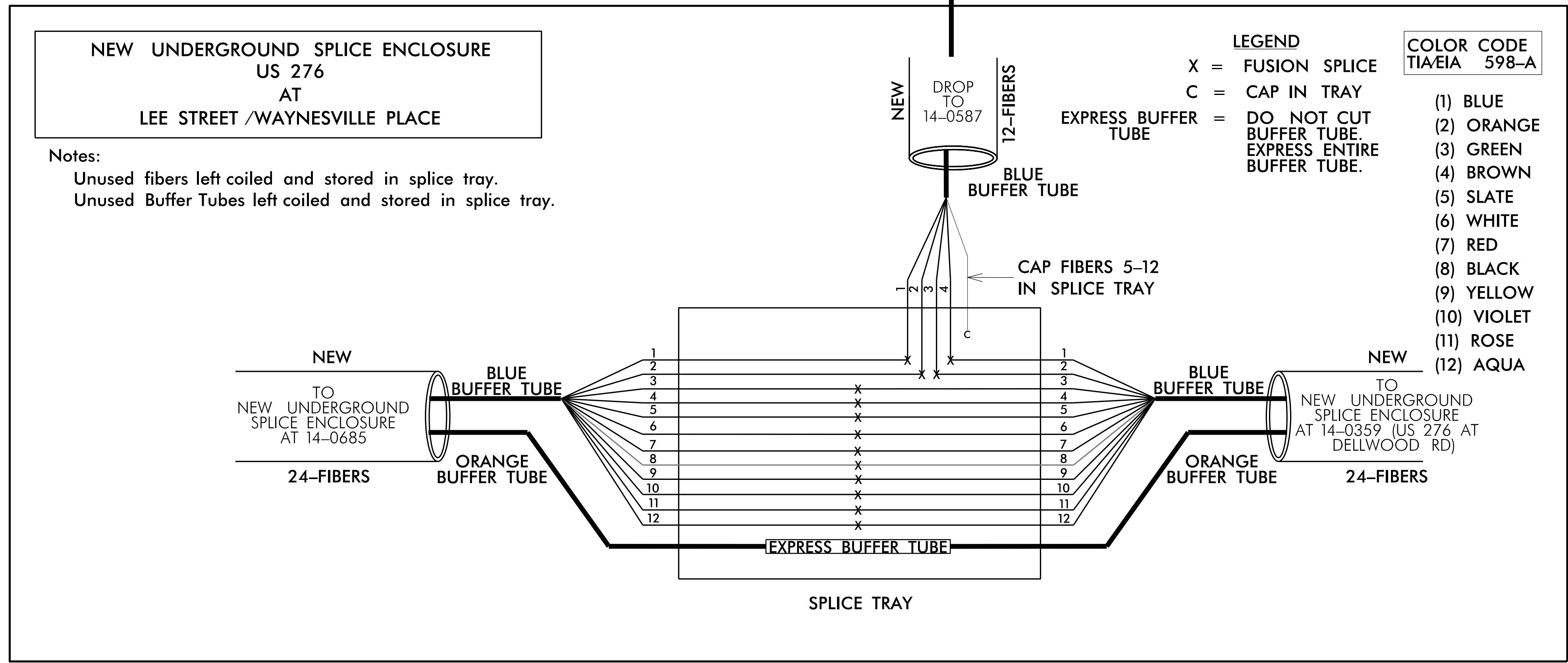
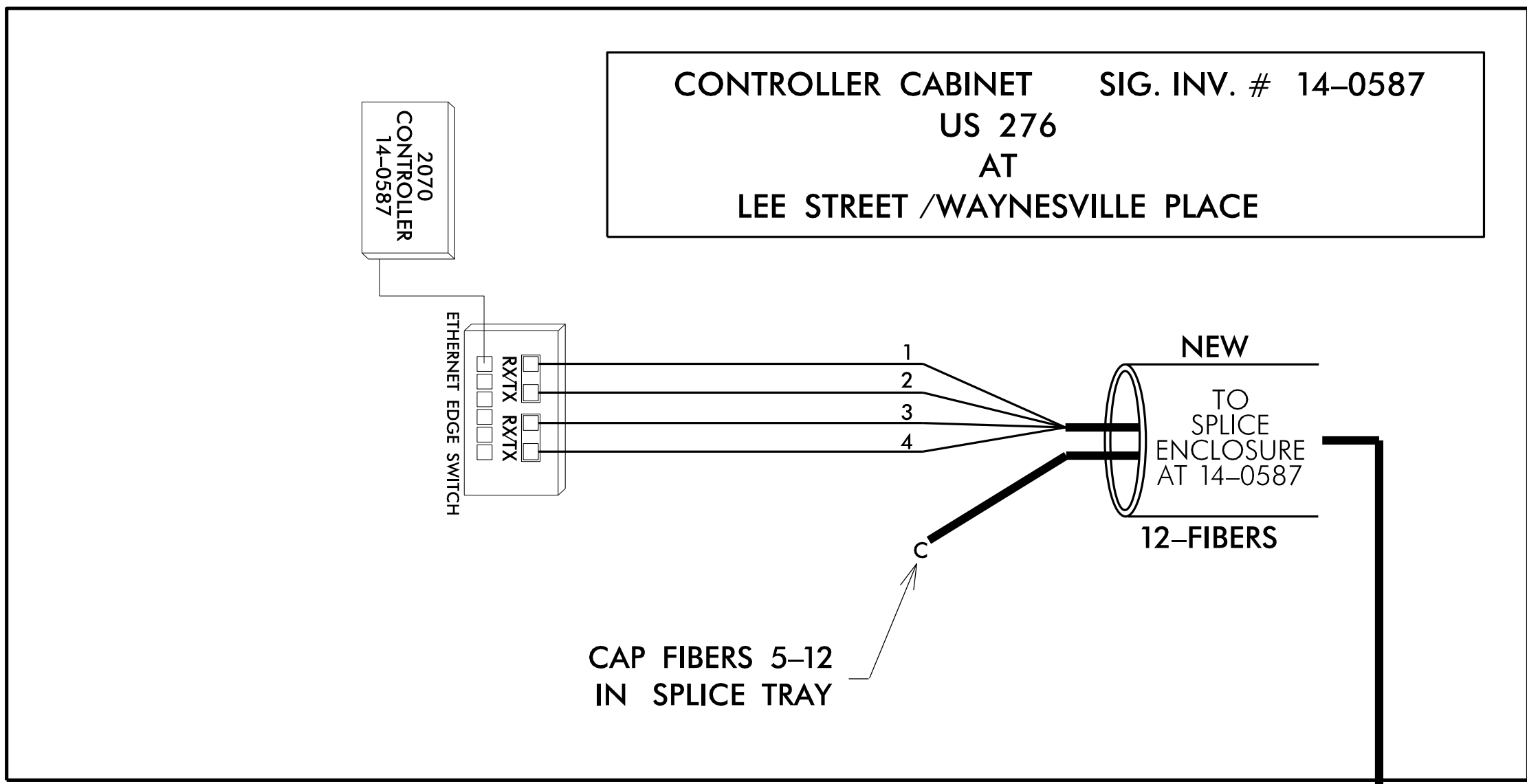
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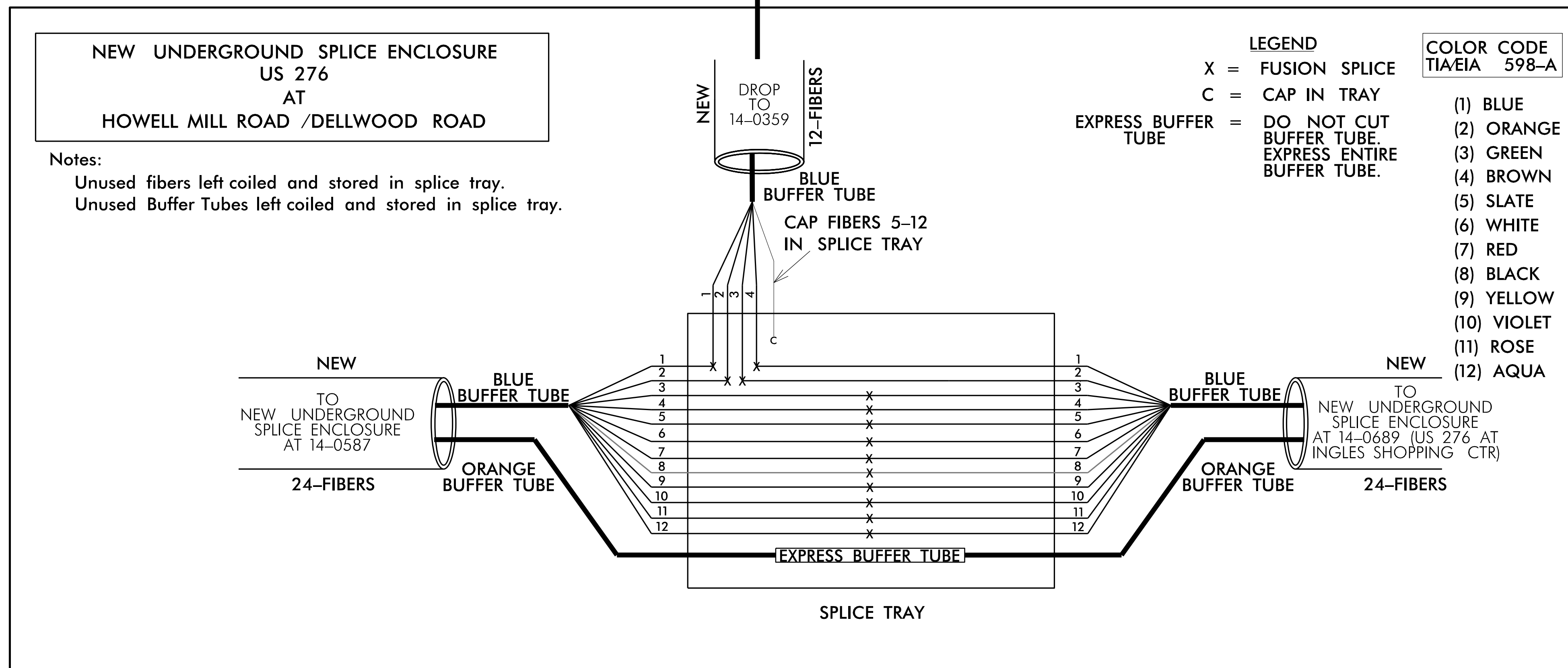
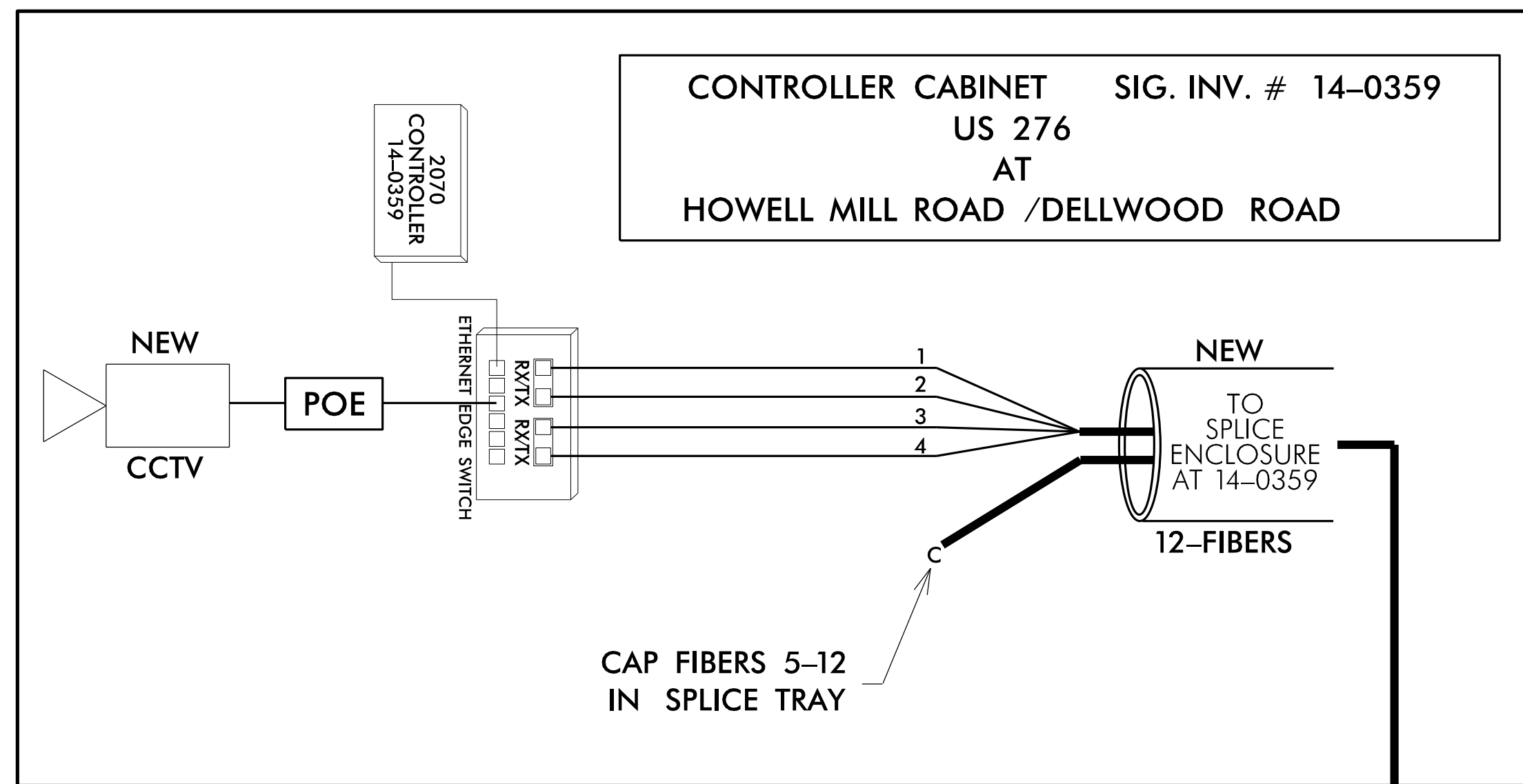
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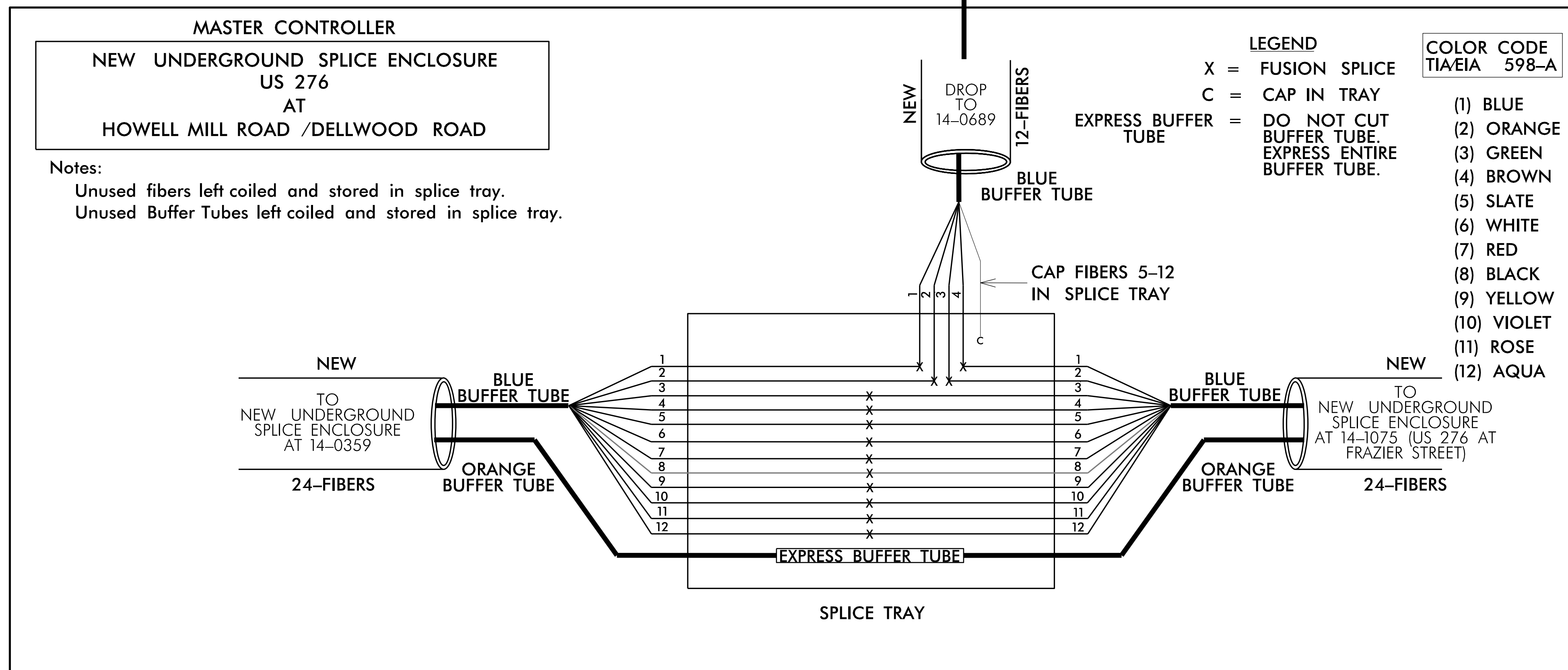
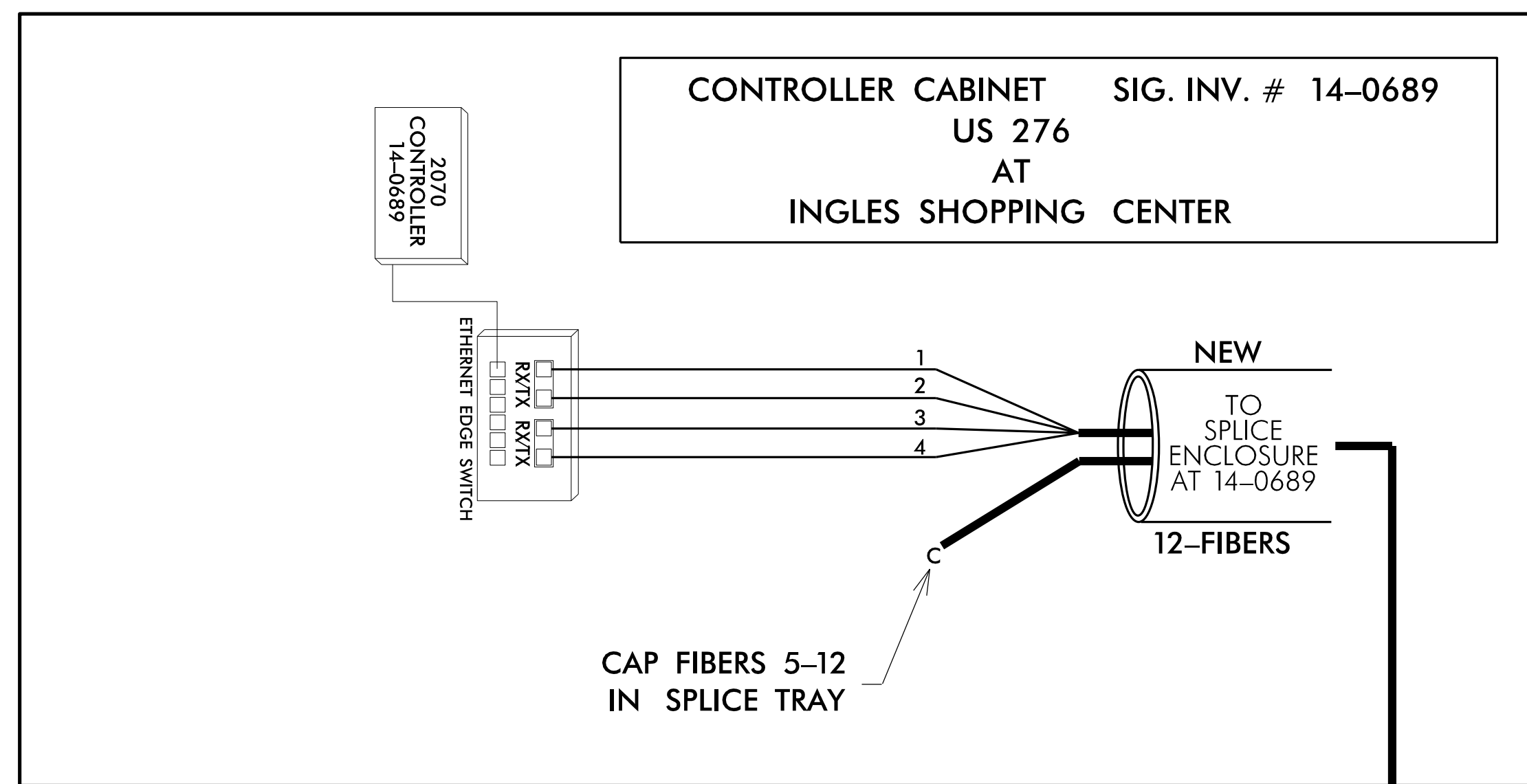
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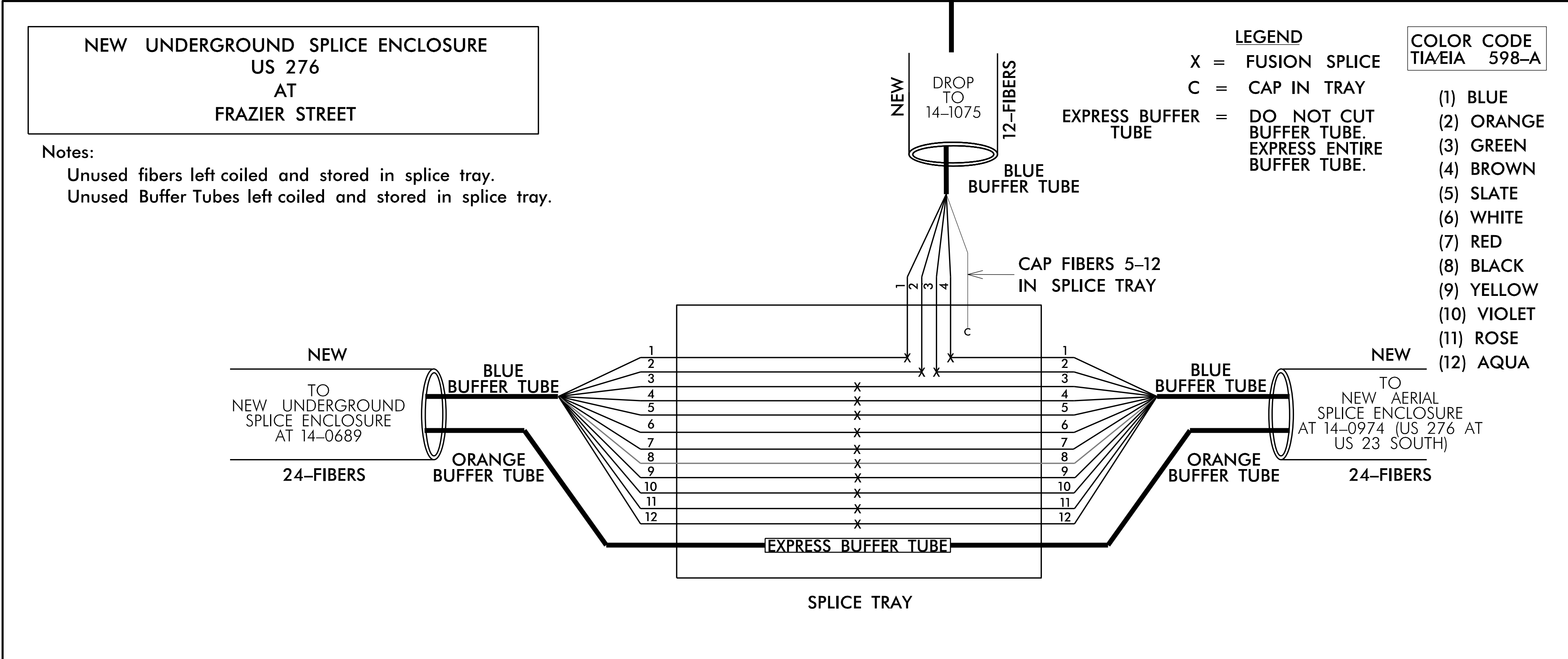
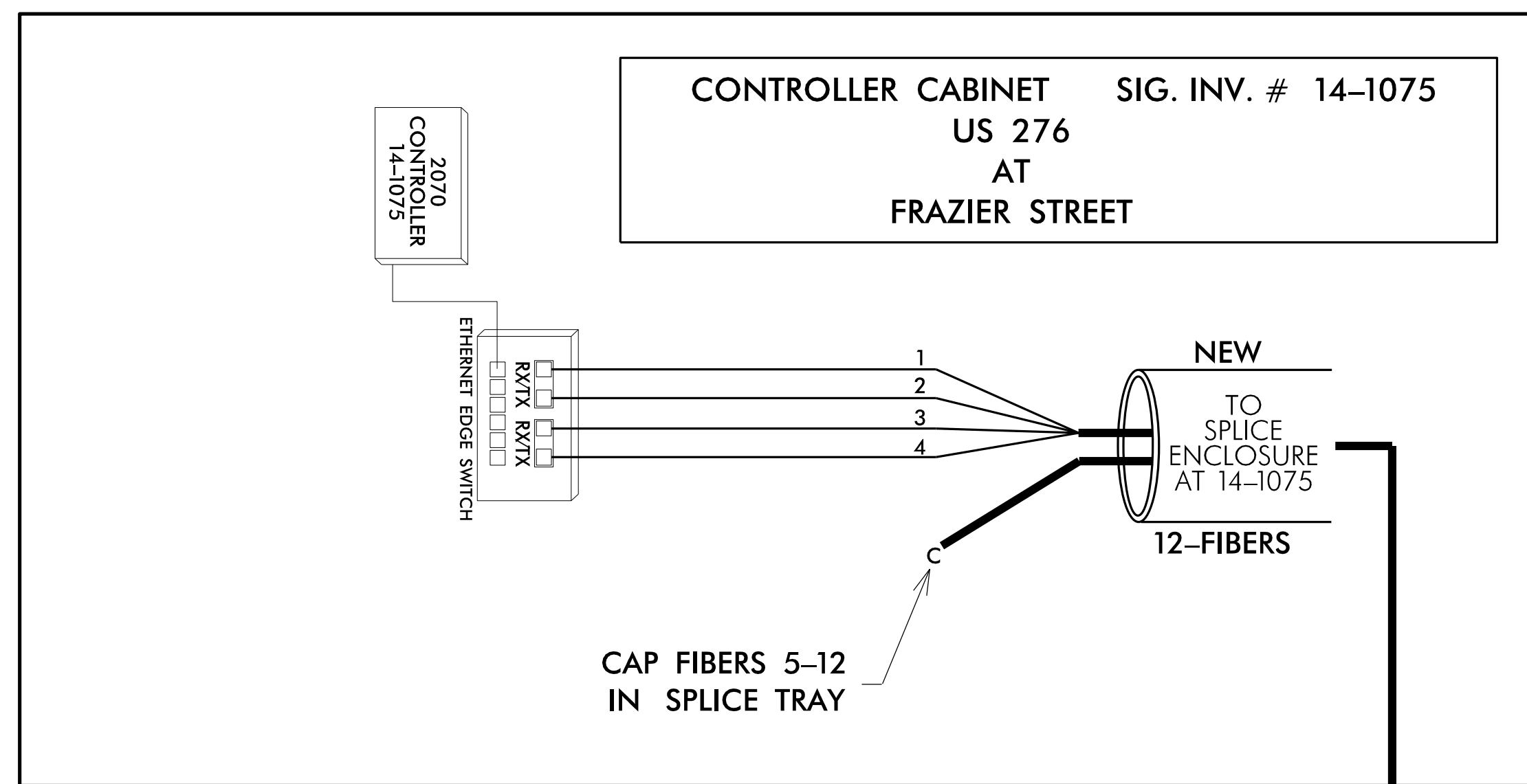
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SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
WILLIAM J. HAMILTON
32396

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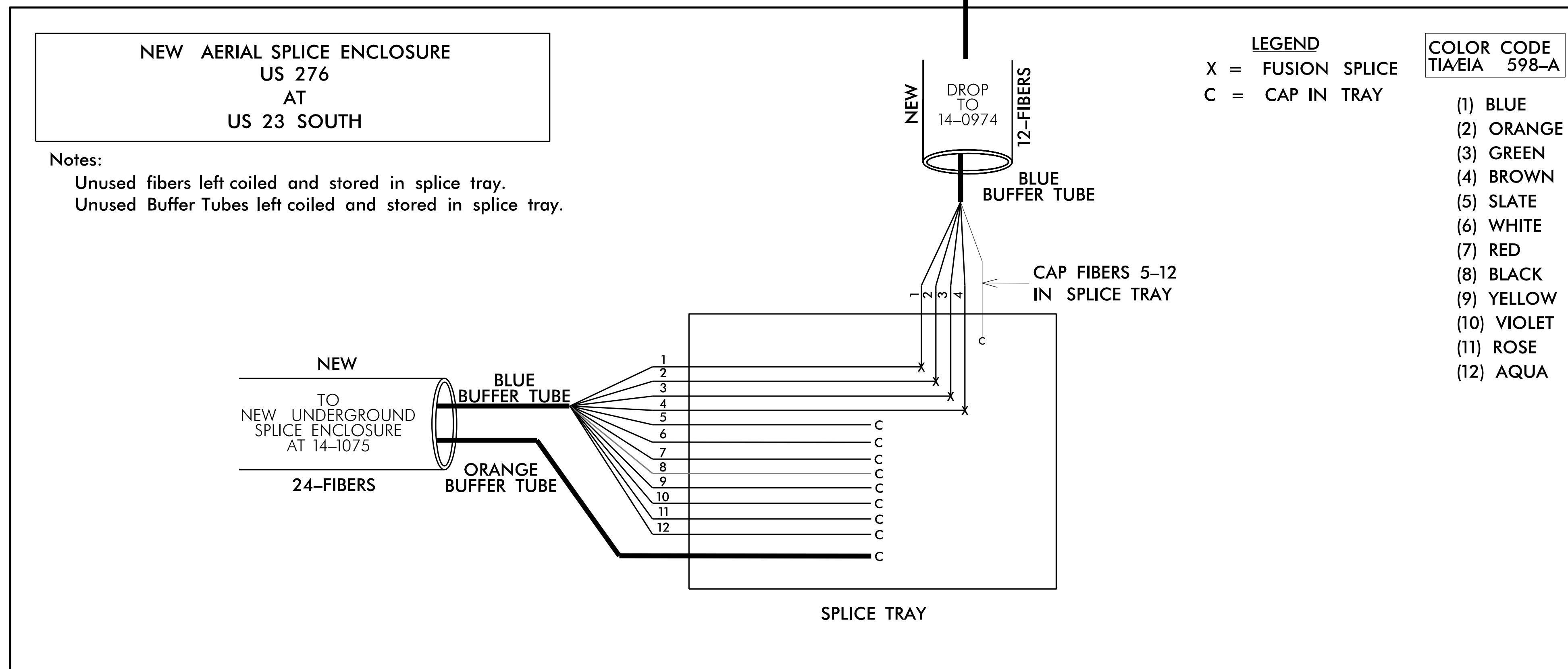
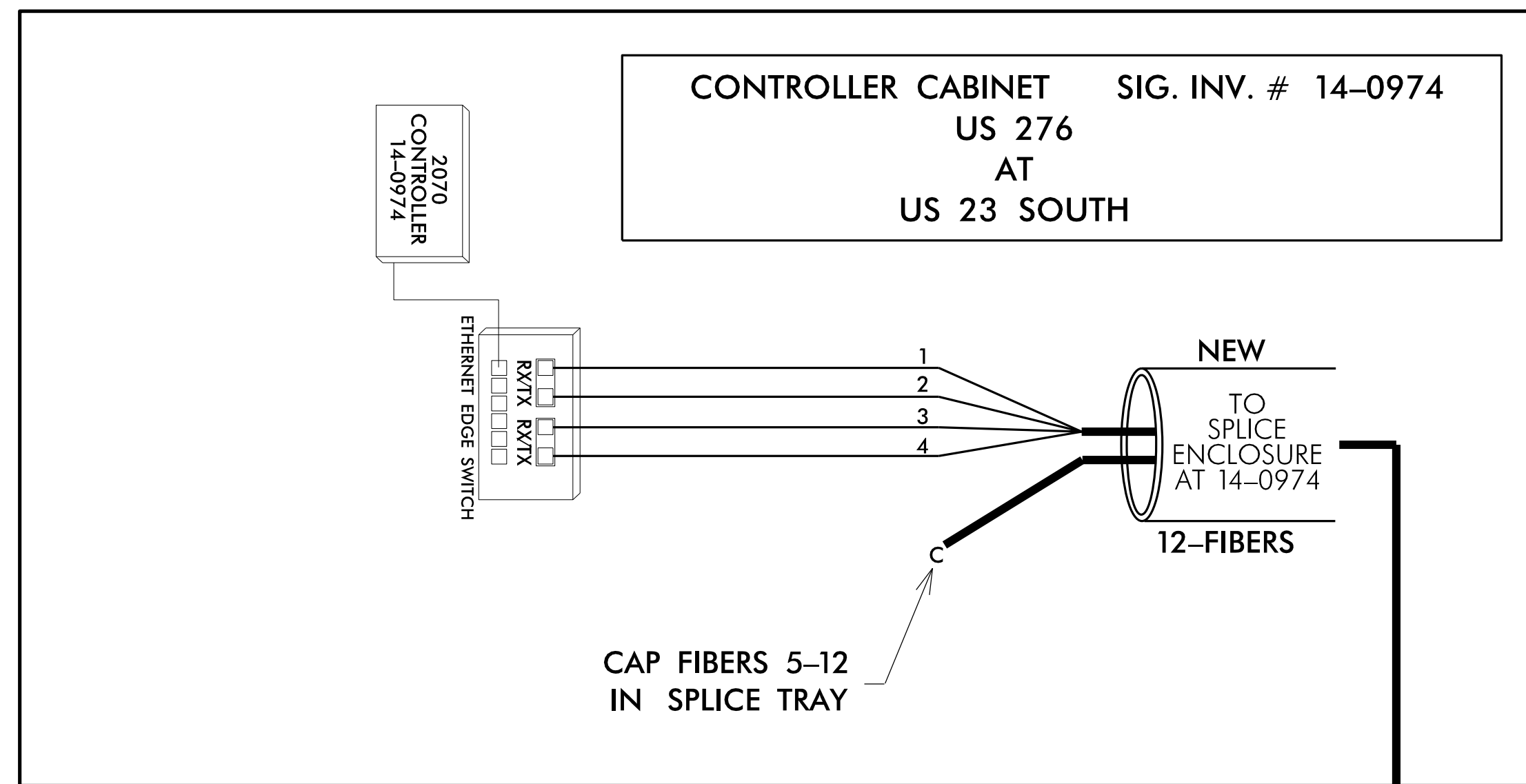
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