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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5943B	1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
45862.1.3		PRELIM ENG	
45862.3.3		CONSTRUCTION	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED IMPROVEMENTS CLAYTON TOWN WIDE SIGNAL SYSTEM COMPUTERIZED TRAFFIC SIGNAL SYSTEM

UPGRADE AND EXPANSION RELATED WORK INCLUDES: UPGRADE OF INTERSECTION CABINETS AND CONTROLLERS; EXPANSION OF CCTV MONITORING NETWORK; INSTALLATION OF AN ETHERNET COMMUNICATIONS NETWORK COMPRISED OF FIBER-OPTIC CABLE, AND WIRELESS TECHNOLOGY WITH ALL RELATED EQUIPMENT.



CONTRACT: DD00505 TIP PROJECT: U-5943B

8/6/2025 K:\RAL-TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\U-5943B_COVER_CR.dgn

2024 STANDARD SPECIFICATIONS

LETTING DATE: October 28, 2025

PROJECT LENGTH = XX MILES



750 Greenfield Pkwy., Garner, NC 27529

NCDOT CONTACTS:
TRANSPORTATION MOBILITY AND SAFETY
ITS & SIGNALS MANAGEMENT SECTION
MATTHEW CARLISLE, P.E. - STATE ITS AND SIGNALS MANAGEMENT ENGINEER

PLANS PREPARED BY: **Kimley»Horn**

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Raleigh, NC 27636
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Fax: (919) 677-2050

KIMLEY-HORN CONTACTS: KEVIN W. SMITH, P.E. - PROJECT MANAGER
MOLLY BURKE, P.E. - PROJECT ENGINEER

SEAL

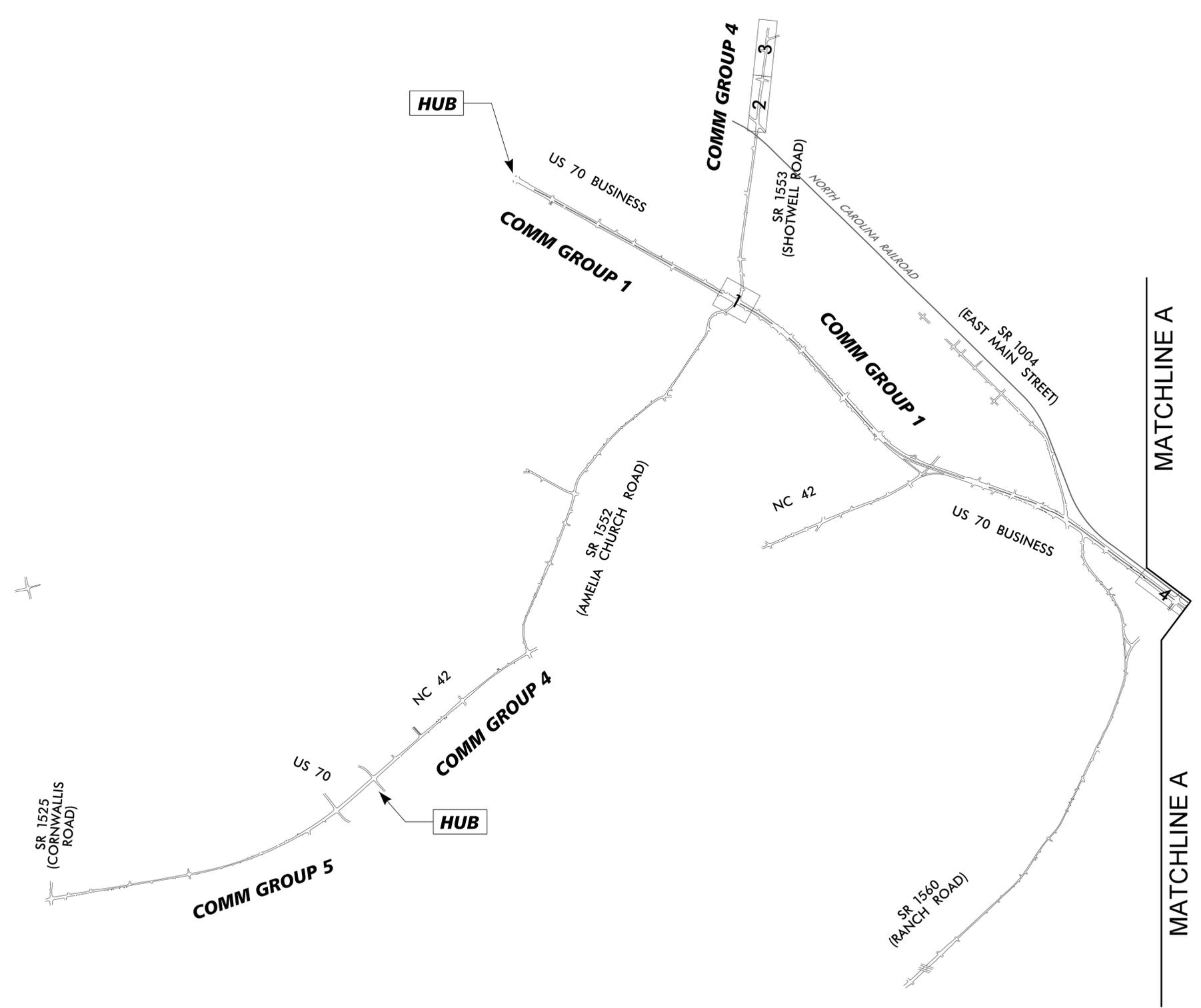


DocuSigned by:
Kevin Smith
0686E04B380445F

SIGNATURE

8/7/2025

DATE



5/22/2025
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 Raleigh, NC 27601
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 Fax: (919) 677-2050

Plans Prepared For:

 750 N. Greenfield Pkwy., Garner, NC 27529
 SCALE: 0 N/A


TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM CABLE ROUTING PLANS PLAN KEY (1 OF 2)			
DIVISION 4		JOHNSTON CO. CLAYTON	
PLAN DATE: April 2025	REVIEWED BY: KW Smith		
PREPARED BY: MC Burke	REVIEWED BY: IZ VanOsdell		
REVISIONS	INIT.	DATE	

SEAL

 IZ VanOsdell
 5/23/2025
 SIGNATURE DATE
 CADD Filename:

MATCHLINE A

MATCHLINE A

COMM GROUP 1

COMM GROUP 2

NC 42

SR 1003 (BUFFALO ROAD)

NC 42

NORTH CAROLINA RAILROAD

US 70 BUSINESS

WISE ROAD

5/22/2025 K:\RAL_TPTD_ITS\01036622_Clayton_SignalSystem\6_Tasks\CADD\U-5943B_Key2_CR.dgn

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Plans Prepared For:



750 N. Greenfield Pkwy., Garner, NC 27529



SCALE: 0 N/A

TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM CABLE ROUTING PLANS PLAN KEY (2 OF 2)		
DIVISION 4	JOHNSTON CO.	CLAYTON
PLAN DATE: April 2025	REVIEWED BY: KW Smith	
PREPARED BY: MC Burke	REVIEWED BY: IZ VanOsdell	
REVISIONS	INIT.	DATE

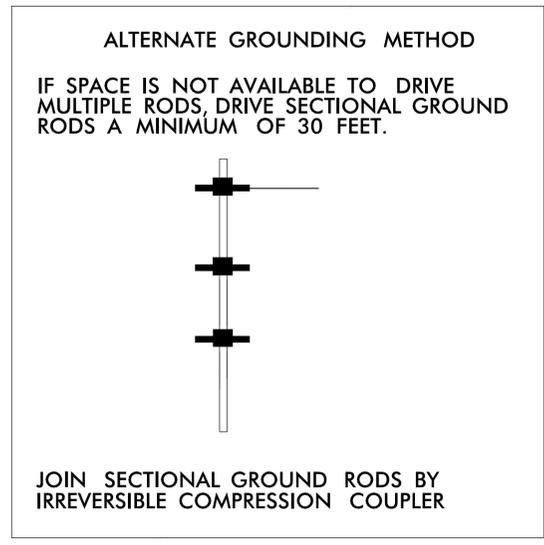
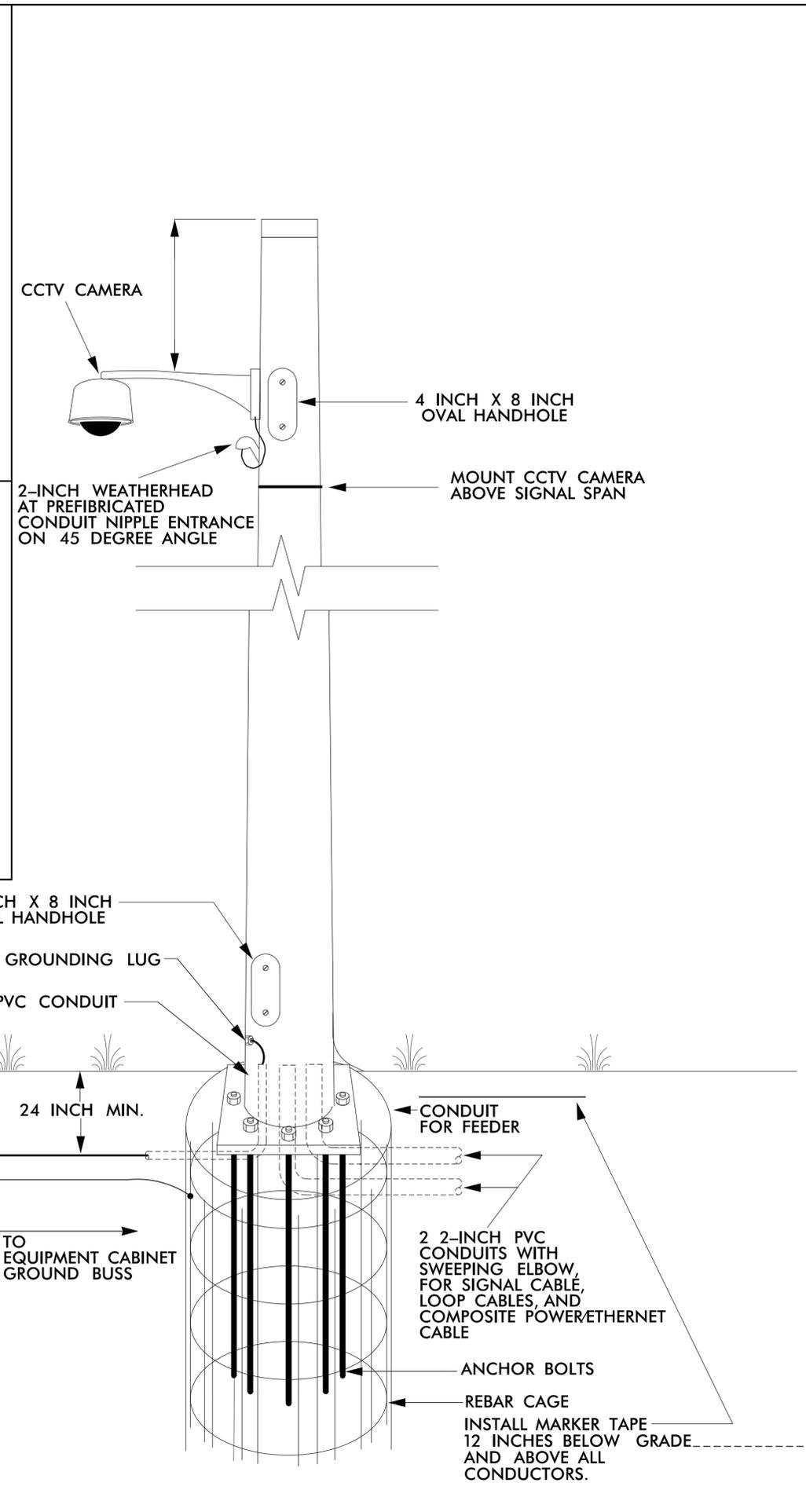
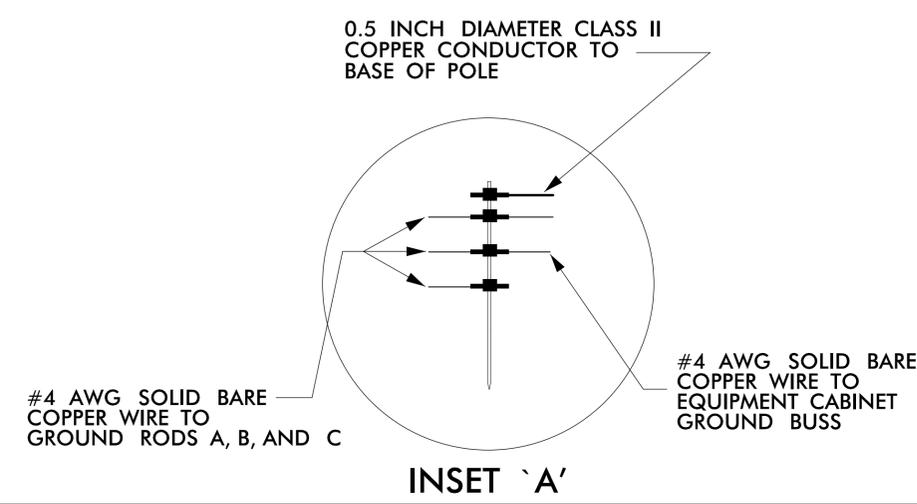
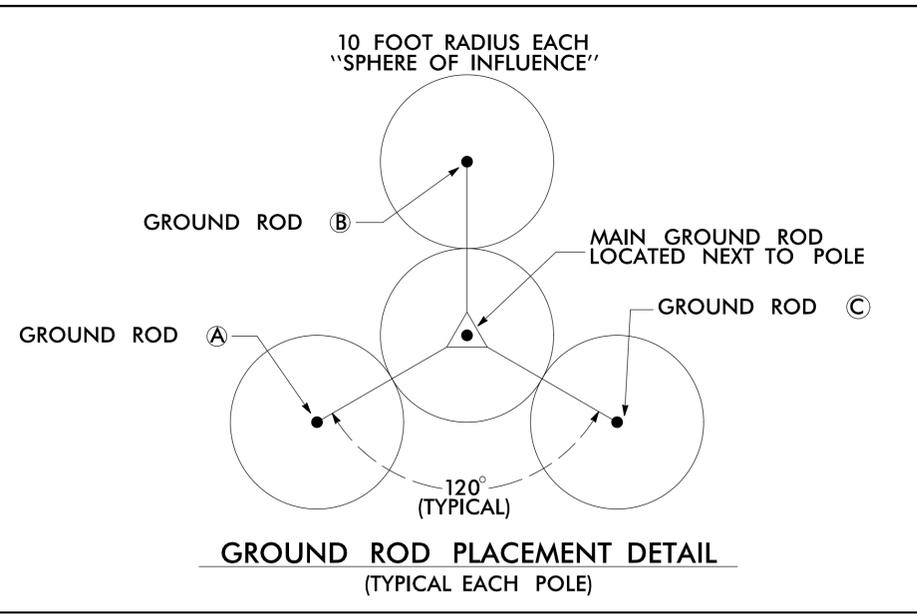
SEAL



DocuSigned by:
 IZ VanOsdell
 5/23/2025

SIGNATURE DATE

CADD Filename: _____



NOTES

1. BOND 0.5 INCH DIAMETER, 28 STRAND (MINIMUM) CLASS II COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
2. ALL CONNECTIONS TO GROUND RODS SHOULD BE MADE WITH AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
3. BOND #4 AWG SOLID BARE COPPER WIRE TO REBAR CAGE AND THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP.
4. ENSURE CAMERA HOUSING, CAMERA, AND PAN -TILT UNIT ARE BONDED TO POLE.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.
6. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
7. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.

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Plans Prepared For:

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
CCTV CAMERA INSTALLATION FOR METAL POLE
TYPICAL DETAIL

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: September 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

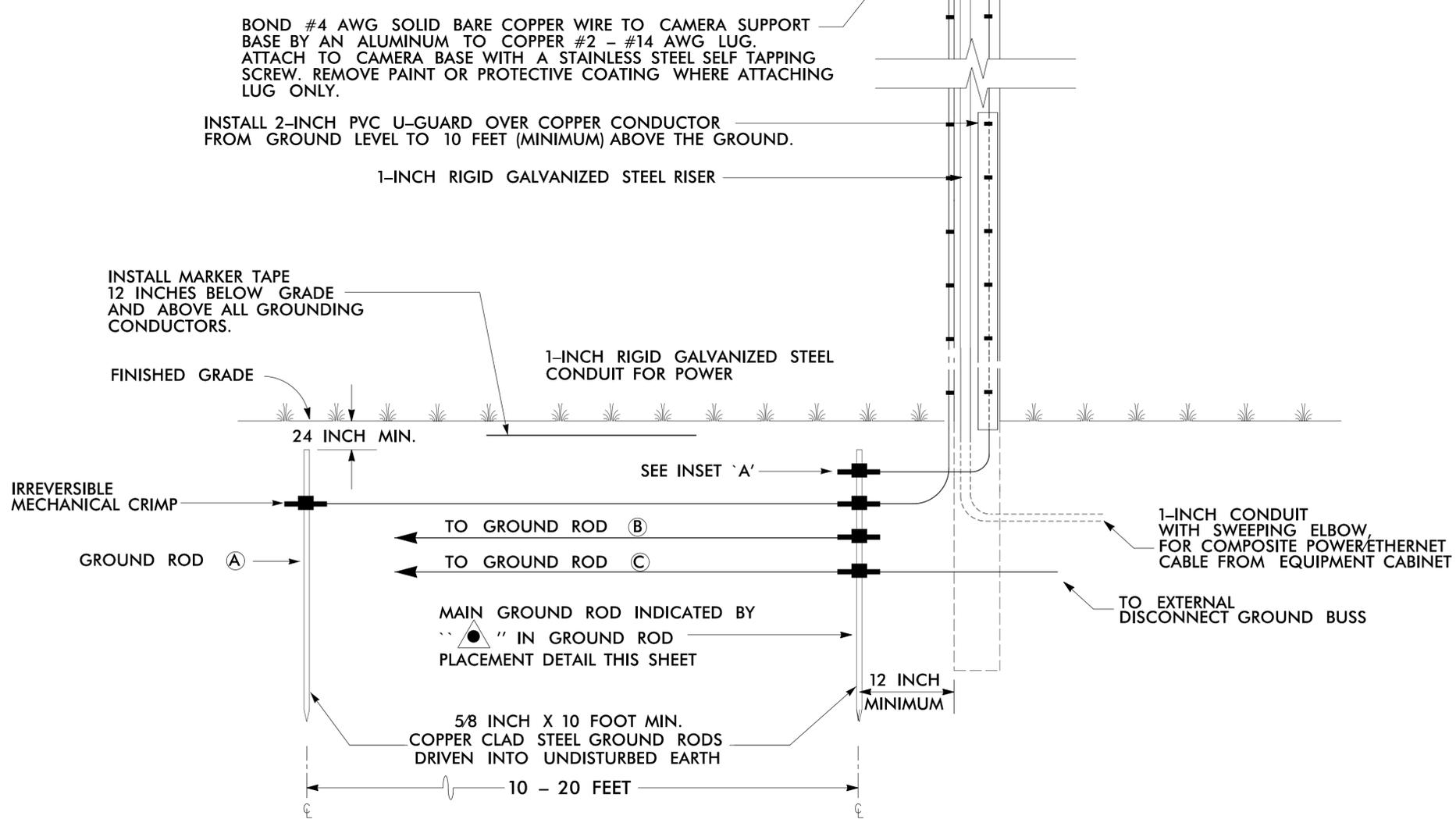
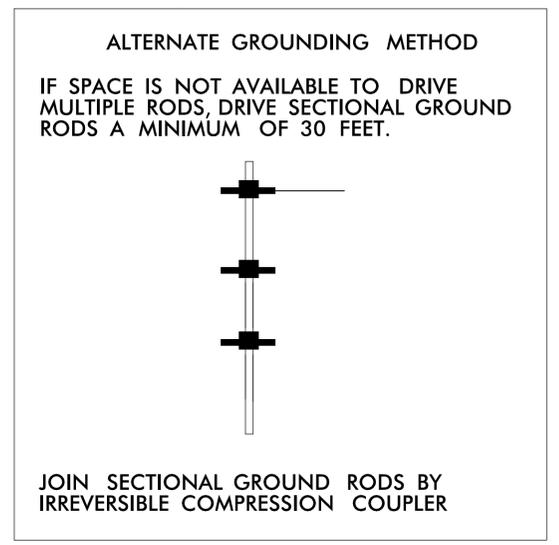
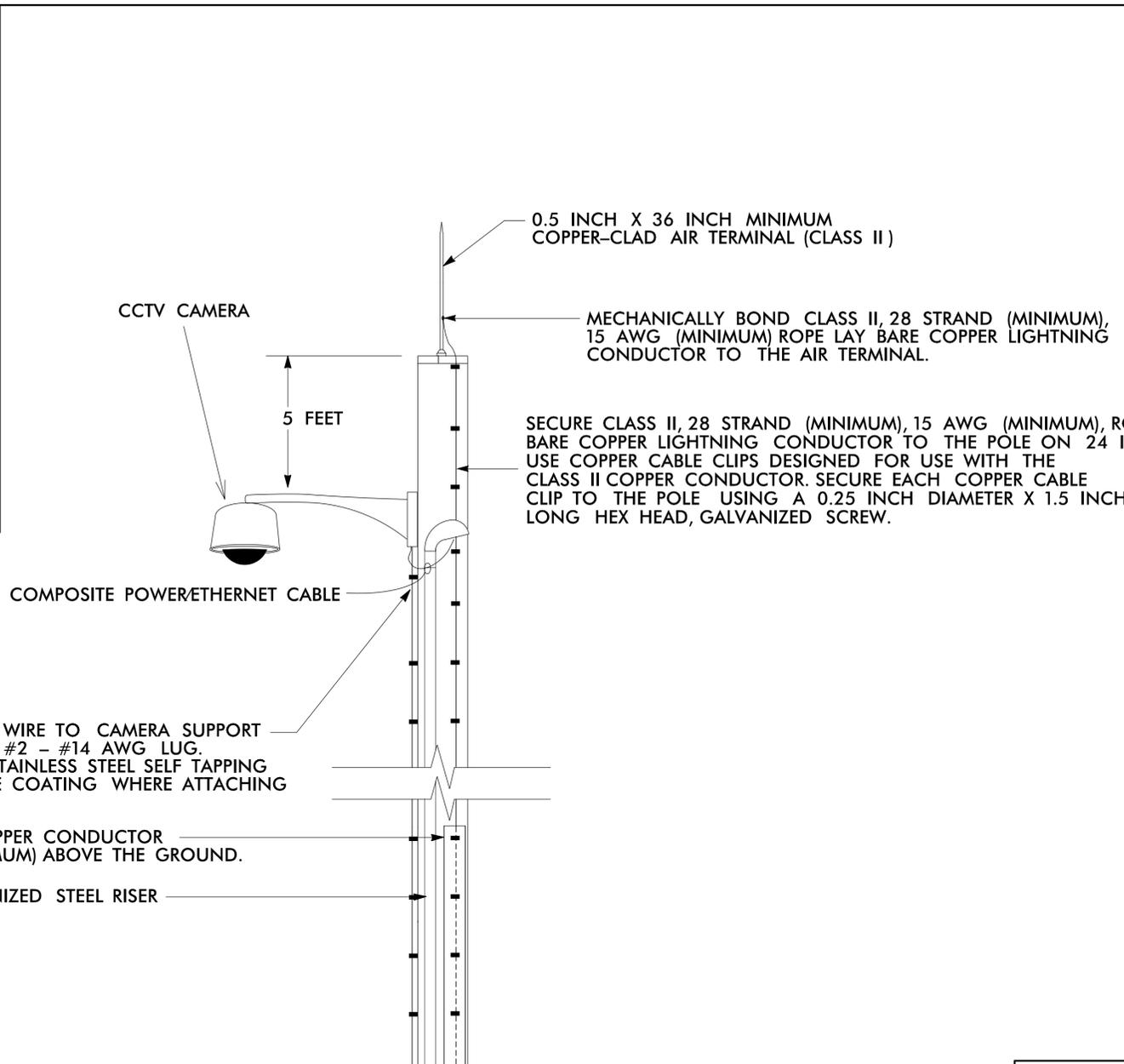
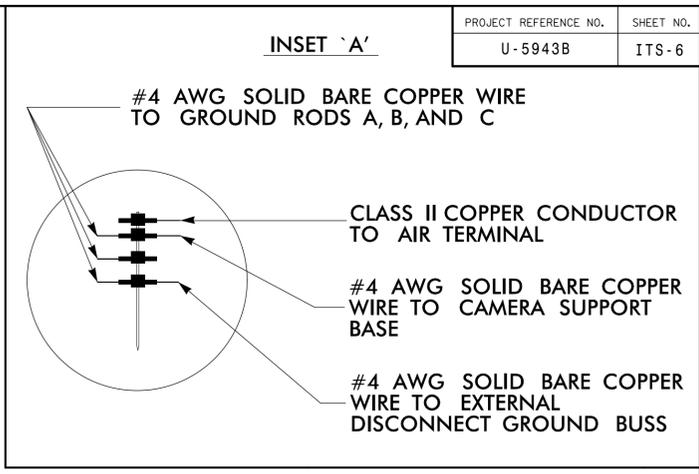
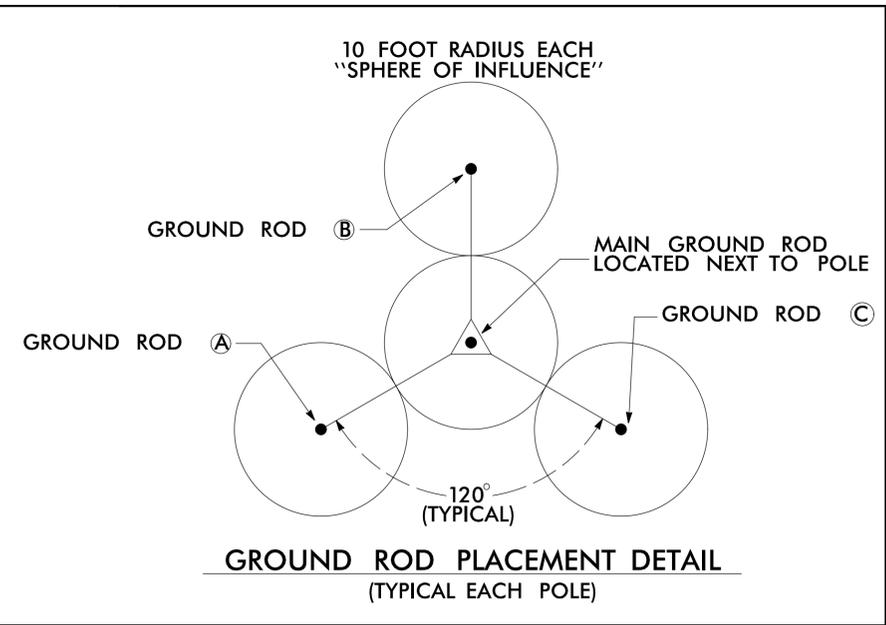
SCALE: 0 N/A

SEAL: Inger VanOsdell, PROFESSIONAL ENGINEER, No. 2, VANOSDELL

SIGNATURE: Inger VanOsdell DATE: 5/23/2025

CADD Filename:

5/22/2025 K:\RAL_TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\U-5943B_LITS-5_CCTVCameraInstallationForMetalPole.dgn



NOTES

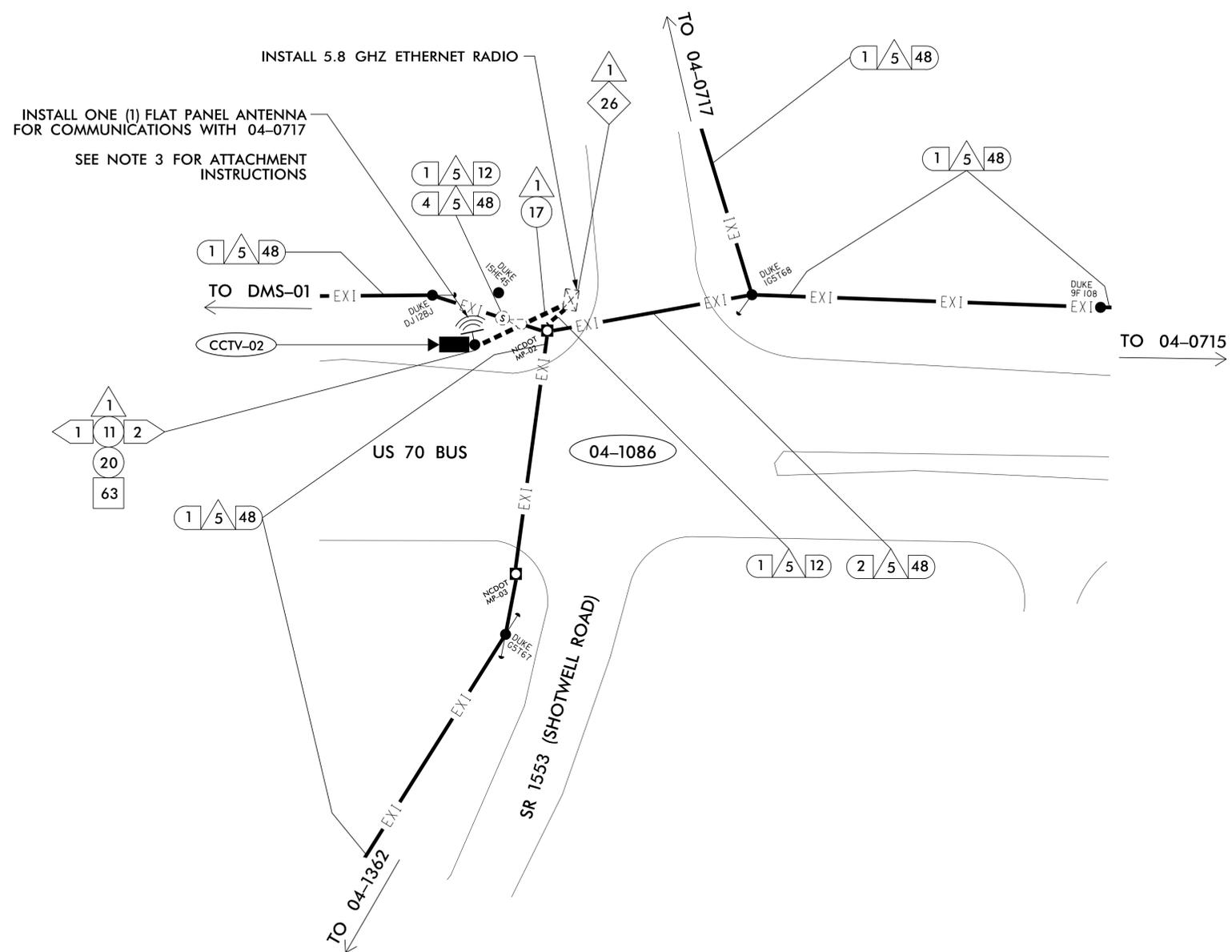
- BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
- ALL CONNECTIONS TO GROUND RODS SHOULD BE MADE WITH AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
- THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
- INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
- REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.

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	TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM CCTV CAMERA INSTALLATION FOR WOOD POLE TYPICAL DETAIL		SEAL
	DIVISION 4 PLAN DATE: September 2024 PREPARED BY: MC Burke	JOHNSTON CO. REVIEWED BY: KW Smith REVIEWED BY: IZ VanOsdel	CLAYTON DATE:
SCALE: 0 N/A		SIGNATURE: _____ DATE: _____	

5/22/2025 K:\RAL\TPTD\ITS\01036622_Clayton_Signal\System\6_Tasks\CADD\U-5943B_ITS-6_CCTVCameraInstallationForWoodPole.dgn



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1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
2	INSTALL ETHERNET CABLE	13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	24	INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	47	INSTALL MESSENGER CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	70	INSTALL BASE MOUNTED 332 HUB CABINET
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	71	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	48B	REMOVE EXISTING COMMUNICATIONS CABLE	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	72	INSTALL NEW SIGNAL CONTROLLER IN EXISTING SIGNAL CABINET
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49	BACK PULL EXISTING COMMUNICATIONS CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	REMOVE EXISTING SIGNAL CONTROLLER
6	INSTALL FIBER OPTIC DROP CABLE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET	39	INSTALL JUNCTION BOX	50	INSTALL CELL MODEM AND ANTENNA	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	74	INSTALL TERMINAL SPLICE BOX
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	75	REMOVE WIRELESS EQUIPMENT
8	TRENCH	19	INSTALL CABLE(S) IN EXISTING RISER	30	INSTALL AERIAL SPLICE ENCLOSURE	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")	52A	INSTALL DELINEATOR MARKER	63	BOND RISER TO POLE GROUND	76	INSTALL NEW ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	52B	INSTALL JUNCTION BOX MARKER	64	BOND MESSENGER CABLE TO POLE GROUND	77	INSTALL IN EXISTING ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED SPLICE CABINET	42	INSTALL WOOD POLE	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT	78	REMOVE CELLULAR EQUIPMENT
11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	33	INSTALL BASE MOUNTED SPLICE CABINET	43	REMOVE EXISTING WOOD POLE	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL	79	REMOVE EXISTING NCDOT RISER
						44	INSTALL AERIAL GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	67	SLACK SPAN		
						45	INSTALL STANDARD GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	68	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER		

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.
- INSTALL RADIO ANTENNA ON CCTV WOOD POLE AT A MINIMUM HEIGHT OF 35' AND SUCH THAT IT DOESN'T OBSTRUCT CCTV OPERATIONS OR TYPICAL VIEWING AREAS.

Plans Prepared For:

750 N. Greenfield Pkwy., Garner, NC 27529

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

REVISIONS	INIT.	DATE

SCALE: 0 N/A

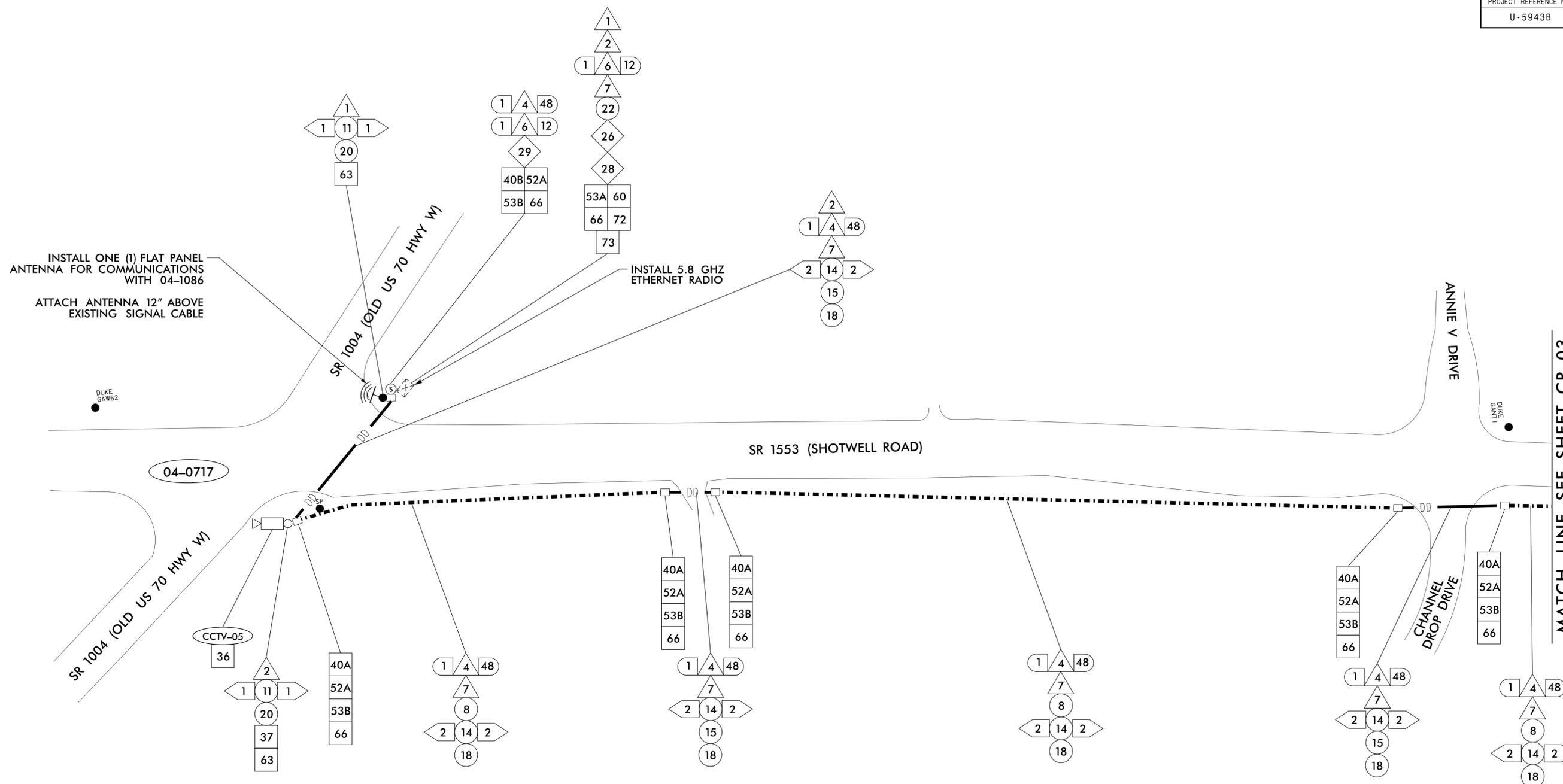
SEAL

5/23/2025

SIGNATURE: _____ DATE: _____

CADD File name: _____

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 Fax: (919) 677-2050



MATCH LINE, SEE SHEET CR-03

- NOTES:**
- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
 - MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.
 - THIS AREA HAS BEEN DETERMINED TO CONTAIN PROPERTIES WITH DOCUMENTED HISTORIC SIGNIFICANCE. IF IT IS NECESSARY TO DEVIATE FROM THESE PLANS IN THIS AREA, PLEASE ALERT THE ENGINEER TO CONTACT PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS BRANCH - HISTORIC ARCHITECTURE GROUP OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION FOR AN EFFECT DETERMINATION BEFORE PROCEEDING.

1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
2	INSTALL ETHERNET CABLE	13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	24	INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	47	INSTALL MESSENGER CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	70	INSTALL BASE MOUNTED 332 HUB CABINET
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	71	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	48B	REMOVE EXISTING COMMUNICATIONS CABLE	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	72	INSTALL NEW SIGNAL CONTROLLER IN EXISTING SIGNAL CABINET
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49	BACK PULL EXISTING COMMUNICATIONS CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	REMOVE EXISTING SIGNAL CONTROLLER
6	INSTALL FIBER OPTIC DROP CABLE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET	39	INSTALL JUNCTION BOX	50	INSTALL CELL MODEM AND ANTENNA	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	74	INSTALL TERMINAL SPLICE BOX
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11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	33	INSTALL BASE MOUNTED SPLICE CABINET	43	REMOVE EXISTING WOOD POLE	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL	79	REMOVE EXISTING NCDOT RISER
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						45	INSTALL STANDARD GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE				

Plans Prepared For:

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

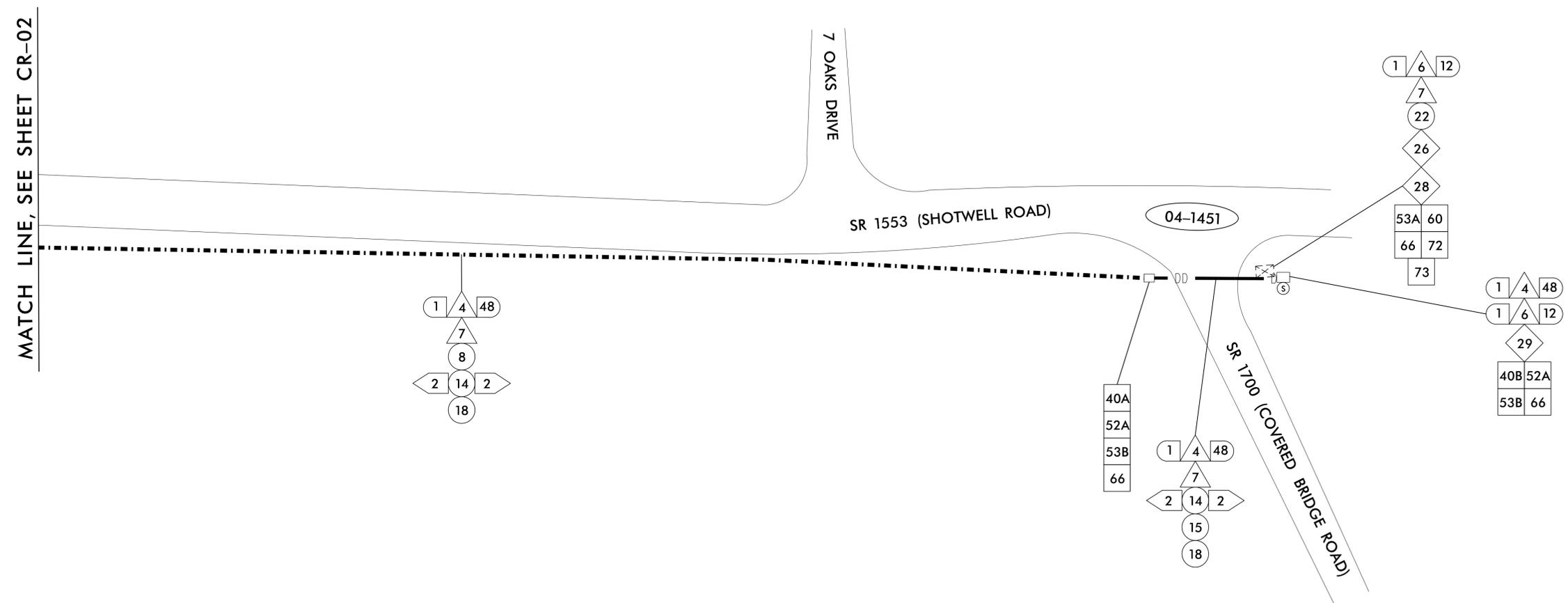
PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

SCALE: 0 N/A

SEAL: **Kimley»Horn**
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Signature: *Inger VanOsdell*
 DATE: 5/30/2025

5/29/2025 K:\ARL\TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\CADD\6_Cable_Routing\U-5943B-U-5943B_CR-002.dgn



NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.
 3. THIS AREA HAS BEEN DETERMINED TO CONTAIN PROPERTIES WITH DOCUMENTED HISTORIC SIGNIFICANCE. IF IT IS NECESSARY TO DEVIATE FROM THESE PLANS IN THIS AREA, PLEASE ALERT THE ENGINEER TO CONTACT PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS BRANCH - HISTORIC ARCHITECTURE GROUP OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION FOR AN EFFECT DETERMINATION BEFORE PROCEEDING.

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5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49	BACK PULL EXISTING COMMUNICATIONS CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	REMOVE EXISTING SIGNAL CONTROLLER
6	INSTALL FIBER OPTIC DROP CABLE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET	39	INSTALL JUNCTION BOX	50	INSTALL CELL MODEM AND ANTENNA	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	74	INSTALL TERMINAL SPLICE BOX
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	75	REMOVE WIRELESS EQUIPMENT
8	TRENCH	19	INSTALL CABLE(S) IN EXISTING RISER	30	INSTALL AERIAL SPLICE ENCLOSURE	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")	52A	INSTALL DELINEATOR MARKER	63	BOND RISER TO POLE GROUND	76	INSTALL NEW ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	52B	INSTALL JUNCTION BOX MARKER	64	BOND MESSENGER CABLE TO POLE GROUND	77	INSTALL IN EXISTING ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED SPLICE CABINET	42	INSTALL WOOD POLE	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT	78	REMOVE CELLULAR EQUIPMENT
11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	33	INSTALL BASE MOUNTED SPLICE CABINET	43	REMOVE EXISTING WOOD POLE	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL	79	REMOVE EXISTING NCDOT RISER
						44	INSTALL AERIAL GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE				
						45	INSTALL STANDARD GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE				

Plans Prepared For:

750 N. Greenfield Place, Garner, NC 27529

SCALE: 0 N/A

TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

REVISIONS	INIT.	DATE

DocuSigned by:
Inger VanOsdell
5/30/2025

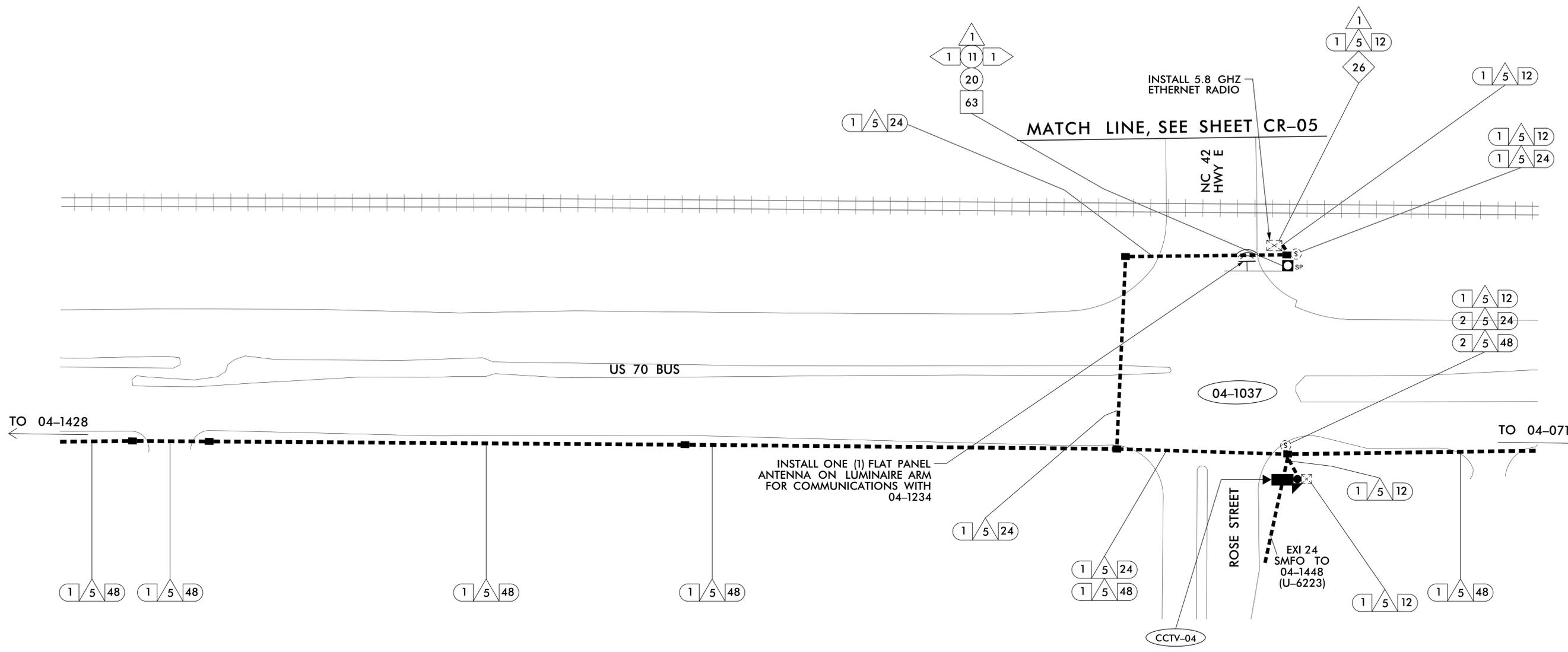
CADD File name: _____

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SEAL
INGEER
INER VANOSDELL
028952

5/29/2025 K:\ARL\TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B\U-5943B_CR-003.dgn



1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
2	INSTALL ETHERNET CABLE	13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	24	INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	47	INSTALL MESSENGER CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	70	INSTALL BASE MOUNTED 332 HUB CABINET
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	71	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	48B	REMOVE EXISTING COMMUNICATIONS CABLE	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	72	INSTALL NEW SIGNAL CONTROLLER IN EXISTING SIGNAL CABINET
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49	BACK PULL EXISTING COMMUNICATIONS CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	REMOVE EXISTING SIGNAL CONTROLLER
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8	TRENCH	19	INSTALL CABLE(S) IN EXISTING RISER	30	INSTALL AERIAL SPLICE ENCLOSURE	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")	52A	INSTALL DELINEATOR MARKER	63	BOND RISER TO POLE GROUND	76	INSTALL NEW ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
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						45	INSTALL STANDARD GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE				

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

Plans Prepared For:
TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON
 PLAN DATE: April 2024 REVIEWED BY: KW Smith
 PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

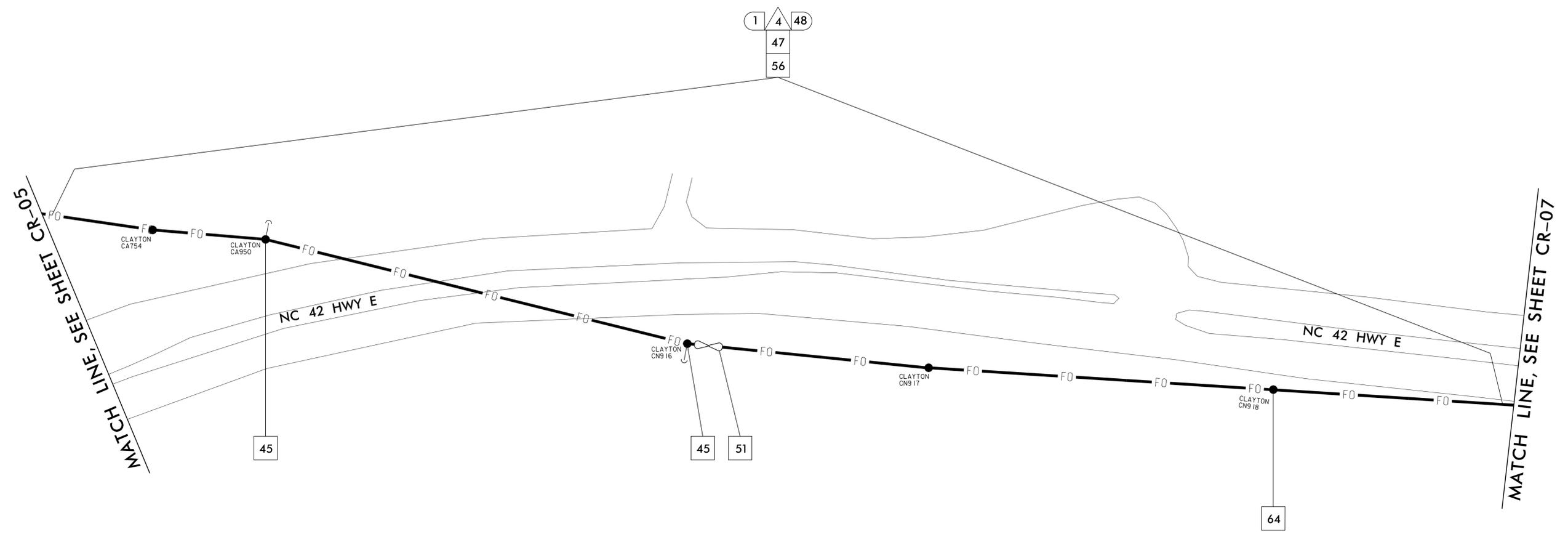
750 N. Greenfield Pkwy., Garner, NC 27529
 SCALE: 0 N/A

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 421 Fayetteville St., Suite 600
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 Fax: (919) 677-2050

Seal: **Inger VanOsdell**
 PROFESSIONAL ENGINEER
 SEAL 028952
 DATE: 5/30/2025

CADD File name: _____

5/29/2025 K:\RAL\TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B\U-5943B_CR-004.dgn



5/22/2025 K:\ARL\TPTD\JTS\01036622 Clayton SignalSystem\6 Tasks\1\CADD\6 Cable Routing\U-5943B\U-5943B_CR-006.dgn

1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
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NOTES:

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- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

Plans Prepared For:

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

750 N. Greenfield Pkwy., Garner, NC 27529

SCALE: 0 N/A

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 Tel: (919) 677-2000
 Fax: (919) 677-2050

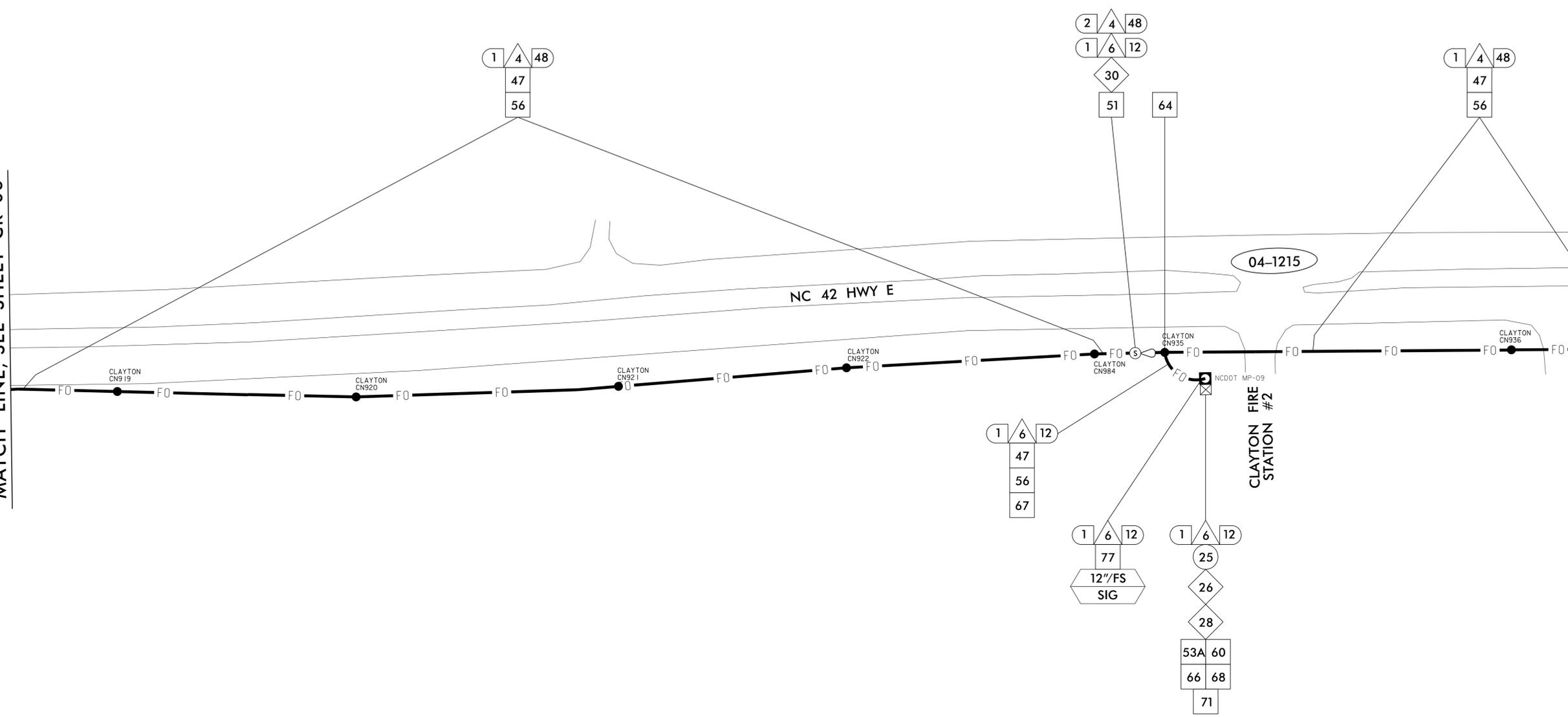
SEAL: **Inger VanOsdell**
 PROFESSIONAL ENGINEER
 SEAL 028952
 DATE: 5/23/2025

SIGNATURE: _____ DATE: _____

CADD File name: _____

MATCH LINE, SEE SHEET CR-06

MATCH LINE, SEE SHEET CR-08



1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
2	INSTALL ETHERNET CABLE	13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	24	INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	47	INSTALL MESSENGER CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	70	INSTALL BASE MOUNTED 332 HUB CABINET
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	71	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
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8	TRENCH	19	INSTALL CABLE(S) IN EXISTING RISER	30	INSTALL AERIAL SPLICE ENCLOSURE	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")	52A	INSTALL DELINEATOR MARKER	63	BOND RISER TO POLE GROUND	76	INSTALL NEW ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
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NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



Plans Prepared For:

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

REVISIONS	INIT.	DATE

SCALE: 0 N/A

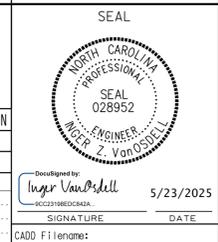
750 N. Greenfield Pkwy., Garner, NC 27529

DocuSigned by: Inger VanOsdell 5/23/2025

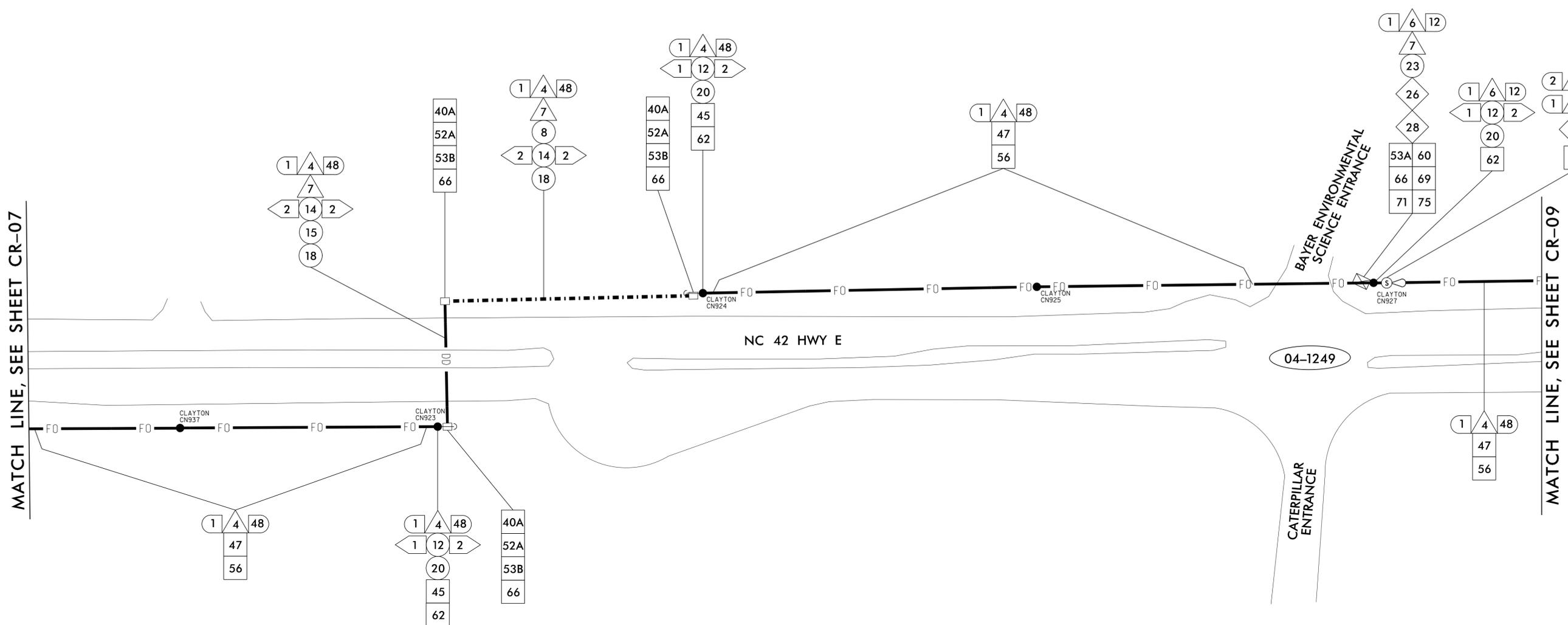
CADD File name: _____

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 Fax: (919) 677-2050



5/22/2025 K:\ARL\TPTD\JTS\01036622 Clayton SignalSystem\6 Tasks\1\CADD\6 Cable Routing\U-5943B\U-5943B_CR-007.dgn



MATCH LINE, SEE SHEET CR-07

MATCH LINE, SEE SHEET CR-09

5/22/2025 K:\ARL\TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B\U-5943B_CR-008.dgn

1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
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9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	52B	INSTALL JUNCTION BOX MARKER	64	BOND MESSENGER CABLE TO POLE GROUND	77	INSTALL IN EXISTING ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED SPLICE CABINET	42	INSTALL WOOD POLE	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT	78	REMOVE CELLULAR EQUIPMENT
11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	33	INSTALL BASE MOUNTED SPLICE CABINET	43	REMOVE EXISTING WOOD POLE	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL	79	REMOVE EXISTING NCDOT RISER
						44	INSTALL AERIAL GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE				
						45	INSTALL STANDARD GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE				

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



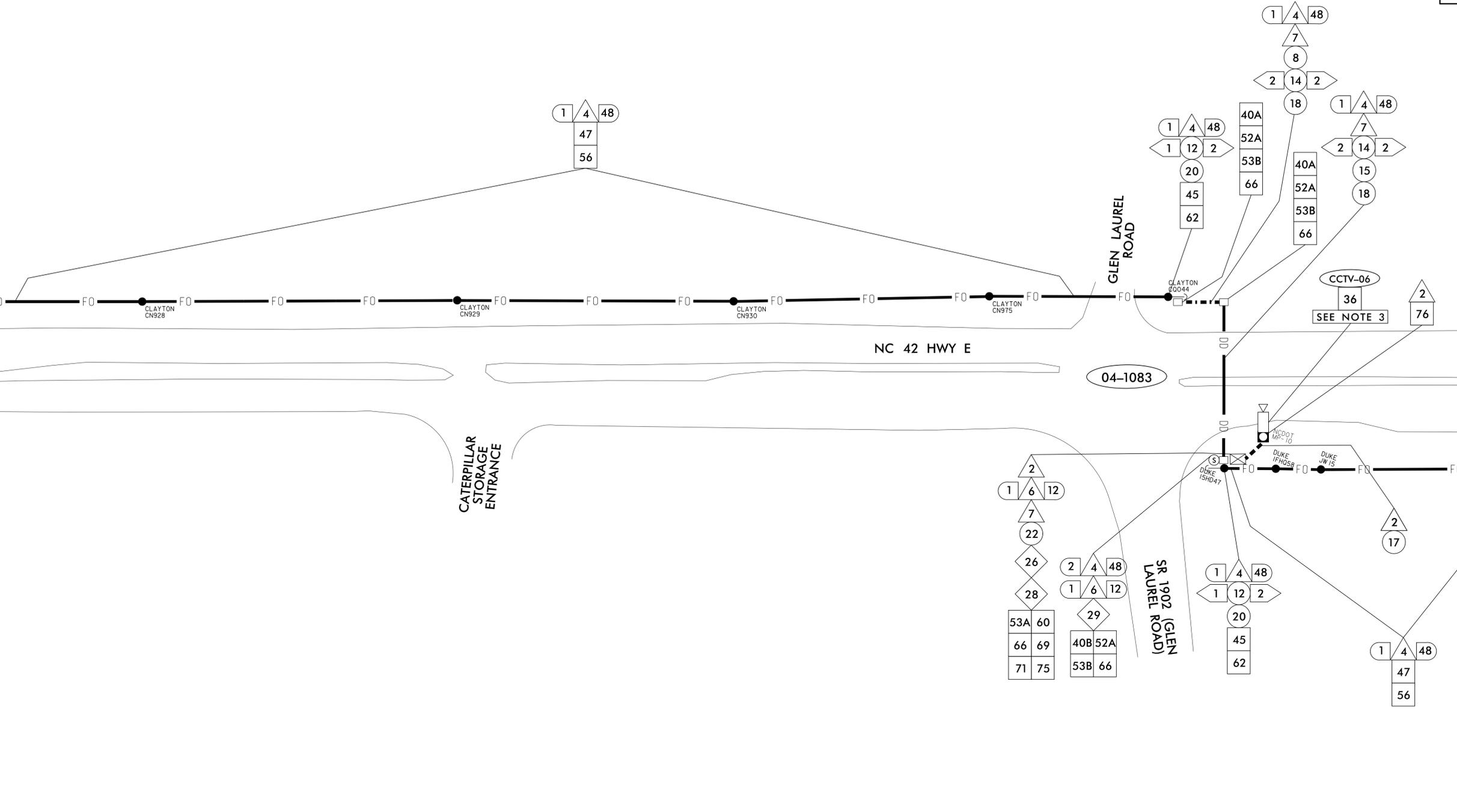
TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 4	JOHNSTON CO.
CLAYTON	
PLAN DATE: April 2024	REVIEWED BY: KW Smith
PREPARED BY: MC Burke	REVIEWED BY: IZ VanOsdel
REVISIONS	INIT. DATE

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 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 License No. 028952
 5/23/2025
 SIGNATURE DATE
 CADD File name:

MATCH LINE, SEE SHEET CR-08

MATCH LINE, SEE SHEET CR-10



1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
2	INSTALL ETHERNET CABLE	13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	24	INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	47	INSTALL MESSENGER CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	70	INSTALL BASE MOUNTED 332 HUB CABINET
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	71	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	48B	REMOVE EXISTING COMMUNICATIONS CABLE	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	72	INSTALL NEW SIGNAL CONTROLLER IN EXISTING SIGNAL CABINET
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49	BACK PULL EXISTING COMMUNICATIONS CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	REMOVE EXISTING SIGNAL CONTROLLER
6	INSTALL FIBER OPTIC DROP CABLE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET	39	INSTALL JUNCTION BOX	50	INSTALL CELL MODEM AND ANTENNA	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	74	INSTALL TERMINAL SPLICE BOX
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	75	REMOVE WIRELESS EQUIPMENT
8	TRENCH	19	INSTALL CABLE(S) IN EXISTING RISER	30	INSTALL AERIAL SPLICE ENCLOSURE	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")	52A	INSTALL DELINEATOR MARKER	63	BOND RISER TO POLE GROUND	76	INSTALL NEW ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	52B	INSTALL JUNCTION BOX MARKER	64	BOND MESSENGER CABLE TO POLE GROUND	77	INSTALL IN EXISTING ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
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NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.
- INSTALL NEW CCTV CAMERA 12" BELOW LOWEST SIGNAL SPAN

Plans Prepared For:

750 N. Greenfield Pkwy., Garner, NC 27529

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

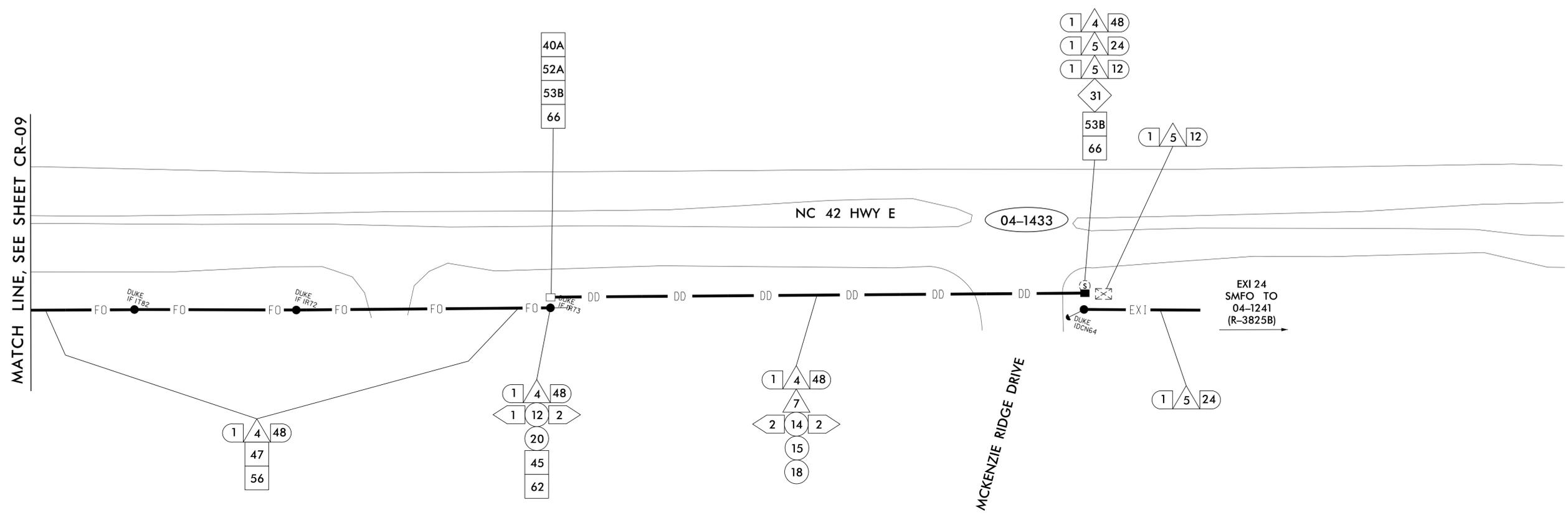
PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdel

REVISIONS	INIT.	DATE

SEAL

Inger VanOsdel
 PROFESSIONAL ENGINEER
 License # 028952
 DATE: 5/23/2025

5/22/2025 K:\ARL\TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B-U-5943B_CR-009.dgn



5/22/2025 K:\ARL\TPTD\JTS\01036622\Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B\U-5943B_CR-010.dgn

1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
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NOTES:

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- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

Plans Prepared For:

750 N. Greenfield Pkwy., Garner, NC 27529

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

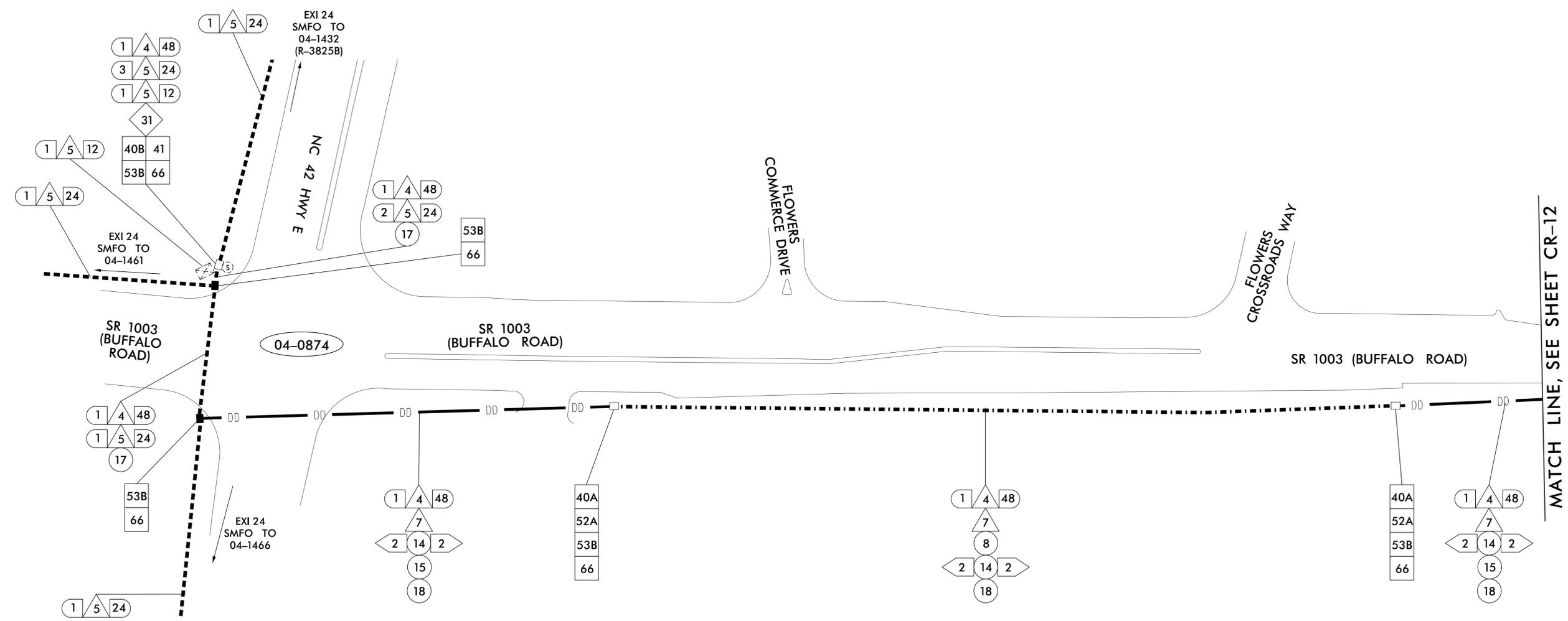
REVISIONS	INIT.	DATE

Signature: *Inger VanOsdell* 5/23/2025

CADD File name: _____

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MATCH LINE, SEE SHEET CR-12

5/29/2025 K:\RALPH\TPTD\JTS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B\U-5943B_CR-01.dgn

- | | | | | | | | | | | | | | |
|----|--|----|--|----|--|-----|--|-----|--|----|---|----|--|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 69 | INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET | 47 | INSTALL MESSENGER CABLE | 57 | MODIFY EXISTING ELECTRICAL SERVICE | 70 | INSTALL BASE MOUNTED 332 HUB CABINET |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 71 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 48B | REMOVE EXISTING COMMUNICATIONS CABLE | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 72 | INSTALL NEW SIGNAL CONTROLLER IN EXISTING SIGNAL CABINET |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | REMOVE EXISTING SIGNAL CONTROLLER |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT | 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET | 39 | INSTALL JUNCTION BOX | 50 | INSTALL CELL MODEM AND ANTENNA | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 74 | INSTALL TERMINAL SPLICE BOX |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 75 | REMOVE WIRELESS EQUIPMENT |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER | 30 | INSTALL AERIAL SPLICE ENCLOSURE | 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") | 52A | INSTALL DELINEATOR MARKER | 63 | BOND RISER TO POLE GROUND | 76 | INSTALL NEW ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER | 31 | MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41 | REMOVE EXISTING JUNCTION BOX | 52B | INSTALL JUNCTION BOX MARKER | 64 | BOND MESSENGER CABLE TO POLE GROUND | 77 | INSTALL IN EXISTING ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED SPLICE CABINET | 42 | INSTALL WOOD POLE | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT | 78 | REMOVE CELLULAR EQUIPMENT |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 33 | INSTALL BASE MOUNTED SPLICE CABINET | 43 | REMOVE EXISTING WOOD POLE | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 66 | INSTALL MOLDABLE DUCT SEAL | 79 | REMOVE EXISTING NCDOT RISER |
| | | | | | | 44 | INSTALL AERIAL GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | | | | |
| | | | | | | 45 | INSTALL STANDARD GUY ASSEMBLY | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | | | | |

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



Plans Prepared For:
TOWN OF CLAYTON
 COMPUTERIZED SIGNAL SYSTEM
 COMMUNICATIONS CABLE AND
 CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON
 PLAN DATE: April 2024 REVIEWED BY: KW Smith
 PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdel

REVISIONS INIT. DATE

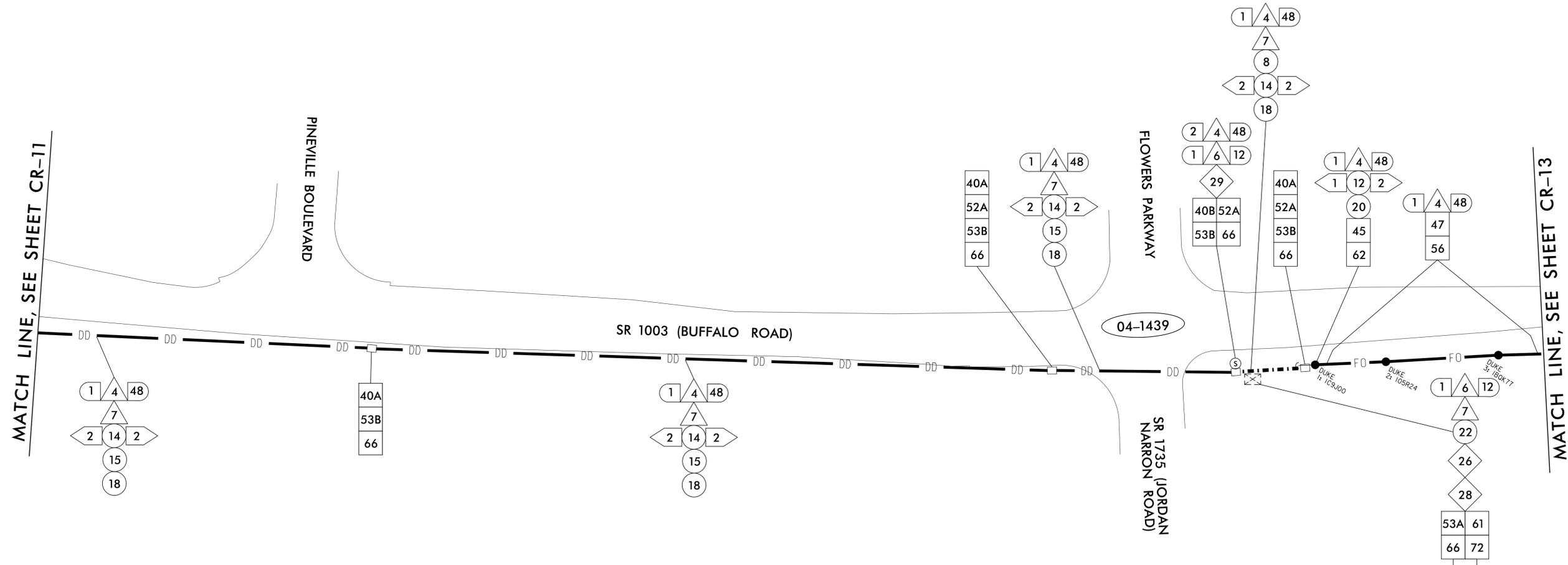
SCALE: 0 N/A

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SEAL
 INGER VANOSDEL
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE NO. 028952

DocuSigned by:
 Inger VanOsdel
 5/30/2025

CADD File name:



5/22/2025 K:\ARL\TPTD\JTS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B\U-5943B_CR-012.dgn

1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
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NOTES:
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Plans Prepared For:

TOWN OF CLAYTON
 COMPUTERIZED SIGNAL SYSTEM
 COMMUNICATIONS CABLE AND
 CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdel

REVISIONS	INIT.	DATE

SCALE: 0 N/A

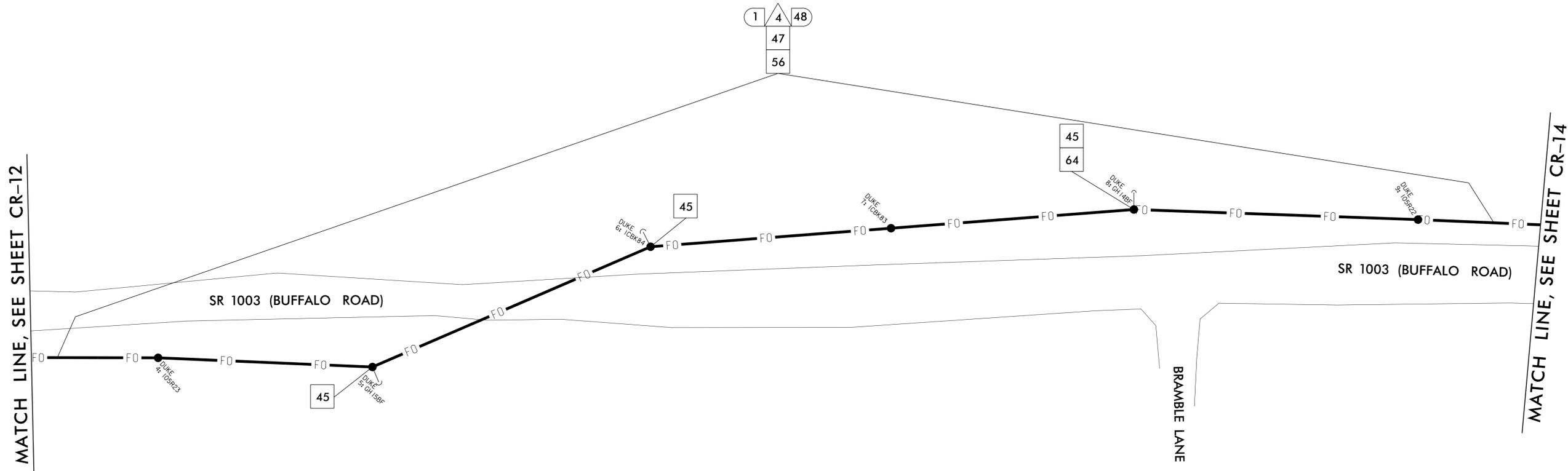
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 Tel: (919) 677-2000
 Fax: (919) 677-2050

SEAL

INGER VANOSDEL
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE # 028952

SIGNATURE: _____ DATE: 5/23/2025

CADD File name: _____



5/22/2025 K:\ARL\TPTD\JTS\01036622\Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B-U-5943B_CR-013.dgn

1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	46	INSTALL SIDEWALK GUY ASSEMBLY	56	LASH CABLE(S) TO NEW MESSENGER CABLE	69	INSTALL BASE MOUNTED 332 SIGNAL CABINET AND CONTROLLER
2	INSTALL ETHERNET CABLE	13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	24	INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	47	INSTALL MESSENGER CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	70	INSTALL BASE MOUNTED 332 HUB CABINET
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	58	INSTALL NEW ELECTRICAL SERVICE	71	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	48B	REMOVE EXISTING COMMUNICATIONS CABLE	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	72	INSTALL NEW SIGNAL CONTROLLER IN EXISTING SIGNAL CABINET
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49	BACK PULL EXISTING COMMUNICATIONS CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	REMOVE EXISTING SIGNAL CONTROLLER
6	INSTALL FIBER OPTIC DROP CABLE	17	INSTALL CABLE(S) IN EXISTING CONDUIT	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET	39	INSTALL JUNCTION BOX	50	INSTALL CELL MODEM AND ANTENNA	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	74	INSTALL TERMINAL SPLICE BOX
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	75	REMOVE WIRELESS EQUIPMENT
8	TRENCH	19	INSTALL CABLE(S) IN EXISTING RISER	30	INSTALL AERIAL SPLICE ENCLOSURE	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")	52A	INSTALL DELINEATOR MARKER	63	BOND RISER TO POLE GROUND	76	INSTALL NEW ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	52B	INSTALL JUNCTION BOX MARKER	64	BOND MESSENGER CABLE TO POLE GROUND	77	INSTALL IN EXISTING ENTRANCE INTO METAL POLE AND INSTALL FIBER OPTIC CABLE SEAL AND INSTALL CABLES IN METAL POLE
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED SPLICE CABINET	42	INSTALL WOOD POLE	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT	78	REMOVE CELLULAR EQUIPMENT
11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	33	INSTALL BASE MOUNTED SPLICE CABINET	43	REMOVE EXISTING WOOD POLE	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL	79	REMOVE EXISTING NCDOT RISER
						44	INSTALL AERIAL GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE				
						45	INSTALL STANDARD GUY ASSEMBLY	55	LASH CABLE(S) TO EXISTING MESSENGER /SIGNAL CABLE				

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

Plans Prepared For:

750 N. Greenfield Pkwy., Garner, NC 27529

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

REVISIONS	INIT.	DATE

SCALE: 0 N/A

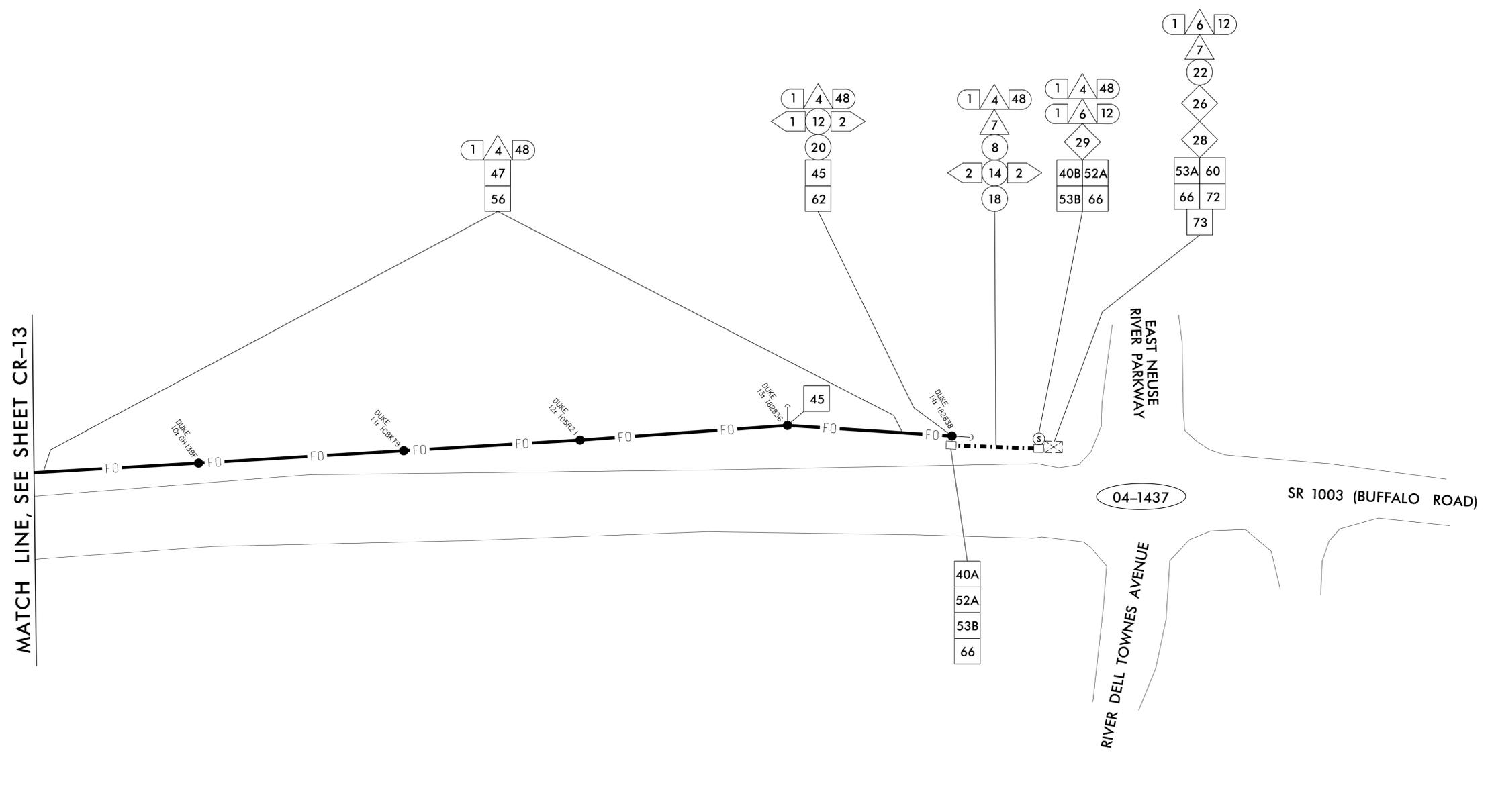
SEAL

5/23/2025

SIGNATURE: _____ DATE: _____

CADD File name: _____

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5/22/2025 K:\ARL\TPTD\JTS\01036622\Clayton_SignalSystem\6_Tasks\1\CADD\6_Cable_Routing\U-5943B-U-5943B_CR-014.dgn

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- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 52 INCHES BELOW POWER PRESENCE, AND A MINIMUM OF 12" BELOW TOP COMMUNICATIONS CABLE UNLESS OTHERWISE NOTED
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

Plans Prepared For:

750 N. Greenfield Pkwy., Garner, NC 27529

TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLAN

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: April 2024 REVIEWED BY: KW Smith

PREPARED BY: MC Burke REVIEWED BY: IZ VanOsdell

REVISIONS	INIT.	DATE

SEAL

DocuSigned by:
Iz VanOsdell
0003196DC84A
 SIGNATURE DATE 5/23/2025

CADD File name: _____

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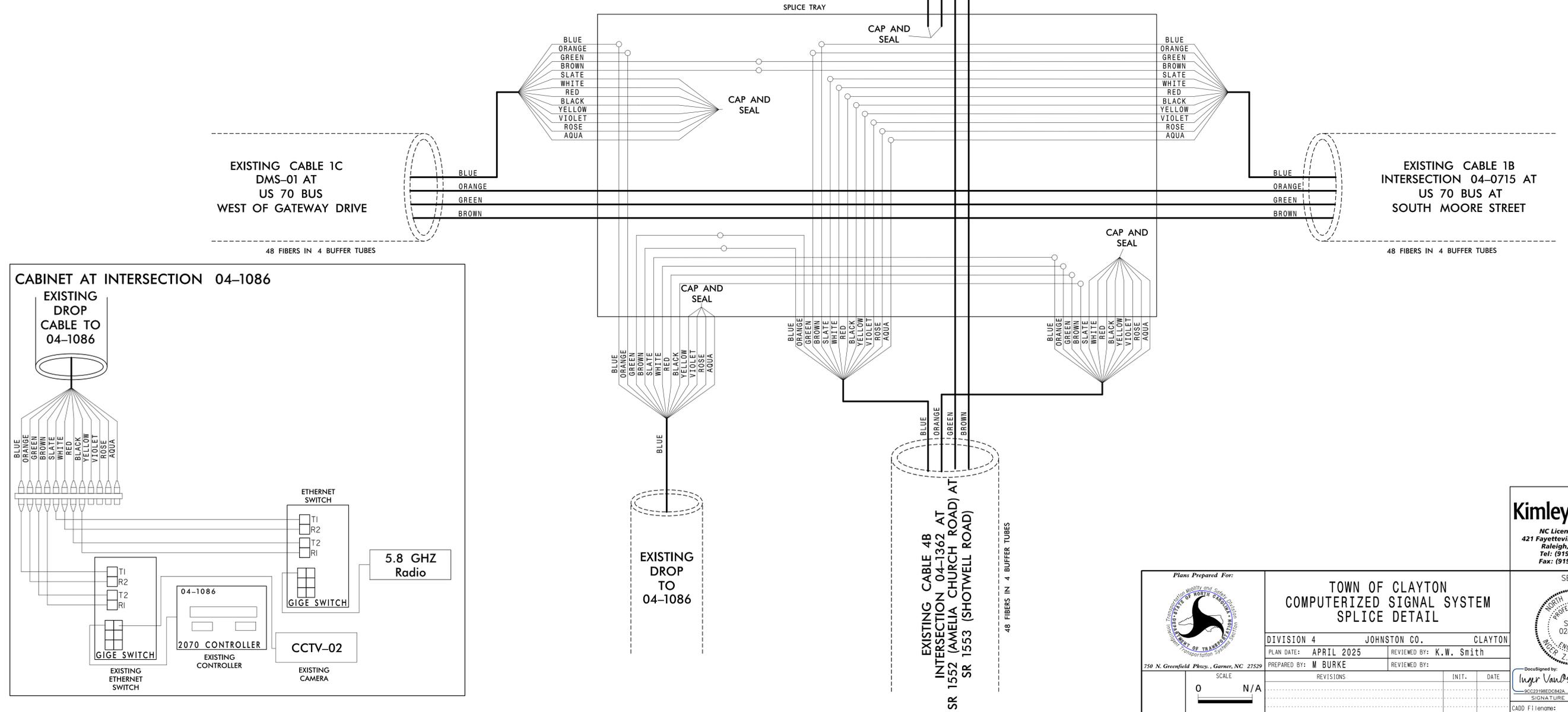
**COMM GROUP 1 AND 4
SPLICE ENCLOSURE AT
US 70 BUS AT
SR 1553 (SHOTWELL ROAD)
SIG ID 04-1086**

SEE CABLE ROUTING SHEET 1

- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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.
- 2) CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENTS 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 ARRANGEMENTS DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
- 3) ETHERNET SWITCH TERMINATION CONFIGUATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND 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.

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



5/29/2025 \\kimley-horn.com\CL-RAL\NRL-TPTO\ITS\01036622 Clayton SignalSystem\6 Tasks\VCADD\T Splicing\U-5943B\U-5943B-SCP-01.dgn

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Plans Prepared For:

**TOWN OF CLAYTON
COMPUTERIZED SIGNAL SYSTEM
SPLICE DETAIL**

DIVISION 4 JOHNSTON CO. CLAYTON

PLAN DATE: APRIL 2025 REVIEWED BY: K.W. Smith

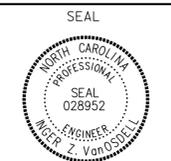
PREPARED BY: M BURKE REVIEWED BY:

SCALE: 0 N/A

REVISIONS: INIT. DATE

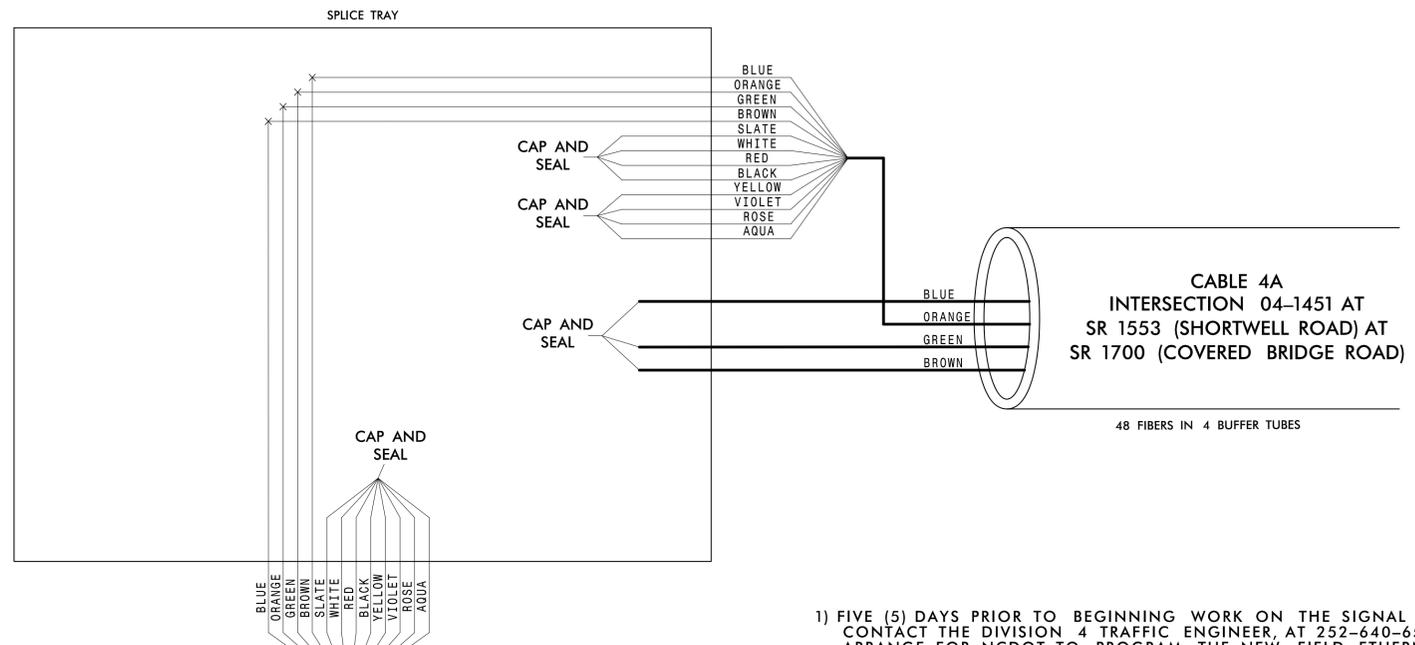
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Inger Vandell
5/30/2025

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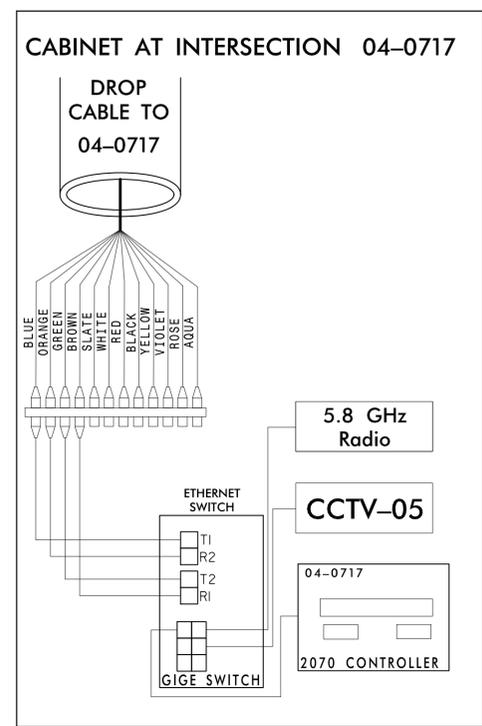


COMM GROUP 4
SPLICE ENCLOSURE AT
SR 1553 (SHOTWELL ROAD) AT
SR 1004 (OLD US 70 HWY W)
SIG ID 04-0717
CCTV-05
SEE CABLE ROUTING SHEET 2

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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.
 - CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENTS 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 ARRANGEMENTS DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
 - ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATIONS.
 - INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - SPLICE LOCATION
 - DATE
 - COMPANY NAME
 - 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.



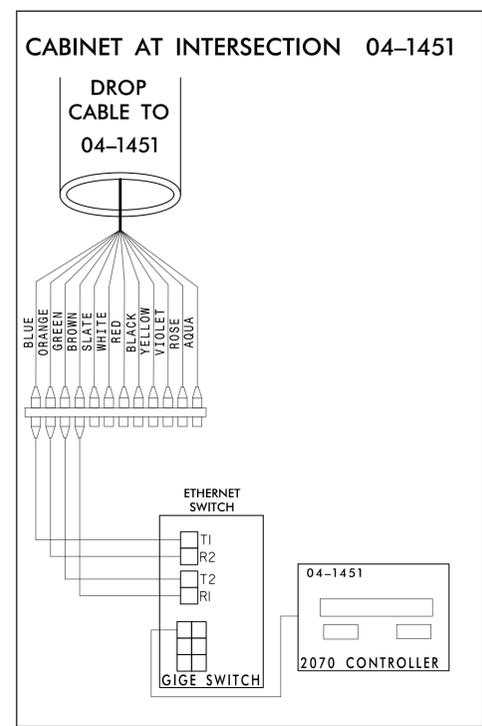
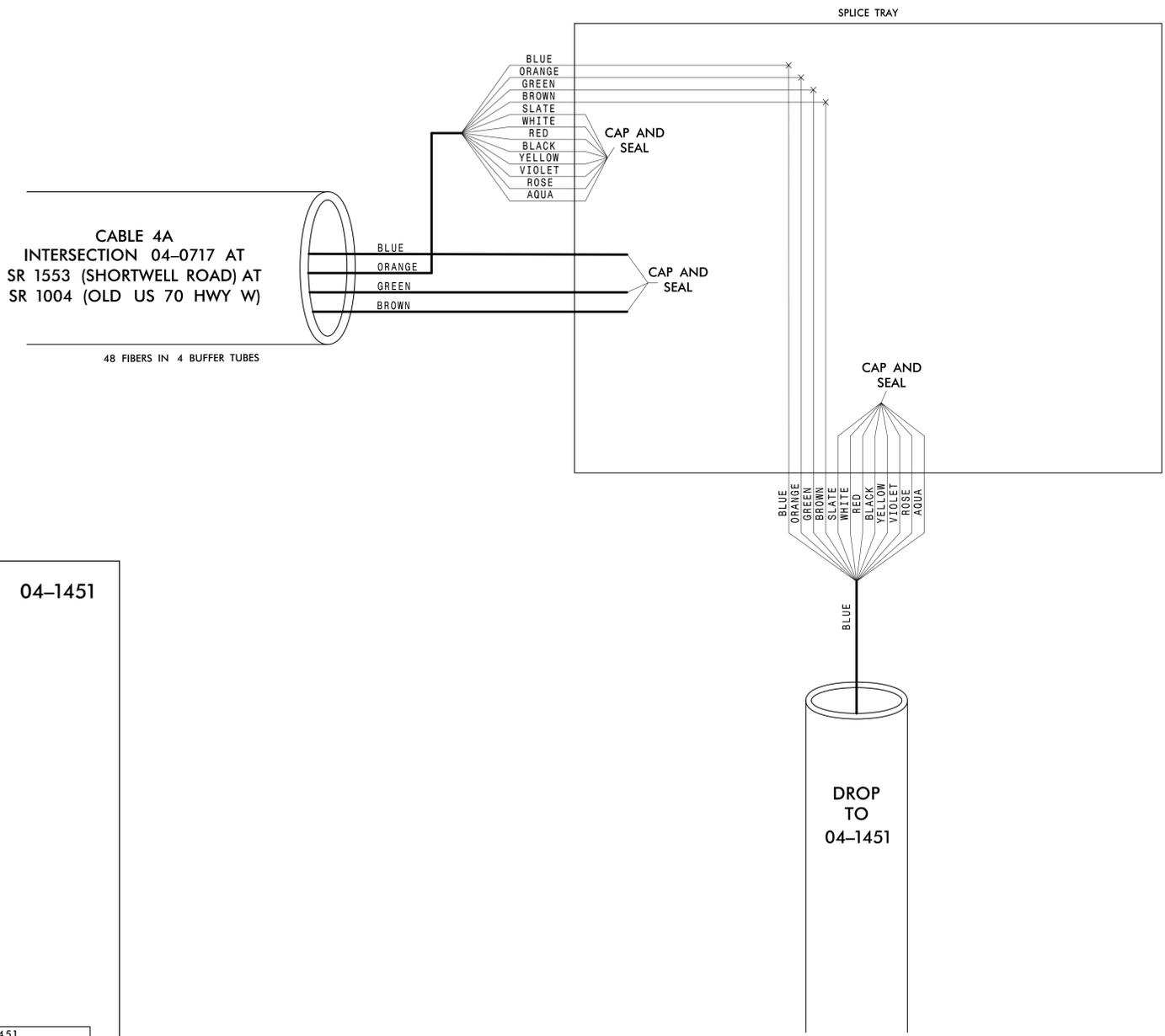
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 Raleigh, NC 27601
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<p>Plans Prepared For: TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL</p>	DIVISION 4 JOHNSTON CO. CLAYTON		SEAL
	PLAN DATE: APRIL 2025	REVIEWED BY: K.W. Smith	
SCALE 0 N/A	REVISIONS	INIT. DATE	SIGNATURE DATE Inger Van Ostell 5/23/2025

COMM GROUP 4
SPLICE ENCLOSURE AT
SR 1553 (SHOTWELL ROAD) AT
SR 1700 (COVERED BRIDGE ROAD)
SIG ID 04-1451

SEE CABLE ROUTING SHEET 3

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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.
 - CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENTS 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 ARRANGEMENTS DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
 - ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATIONS.
 - INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - SPLICE LOCATION
 - DATE
 - COMPANY NAME
 - 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.

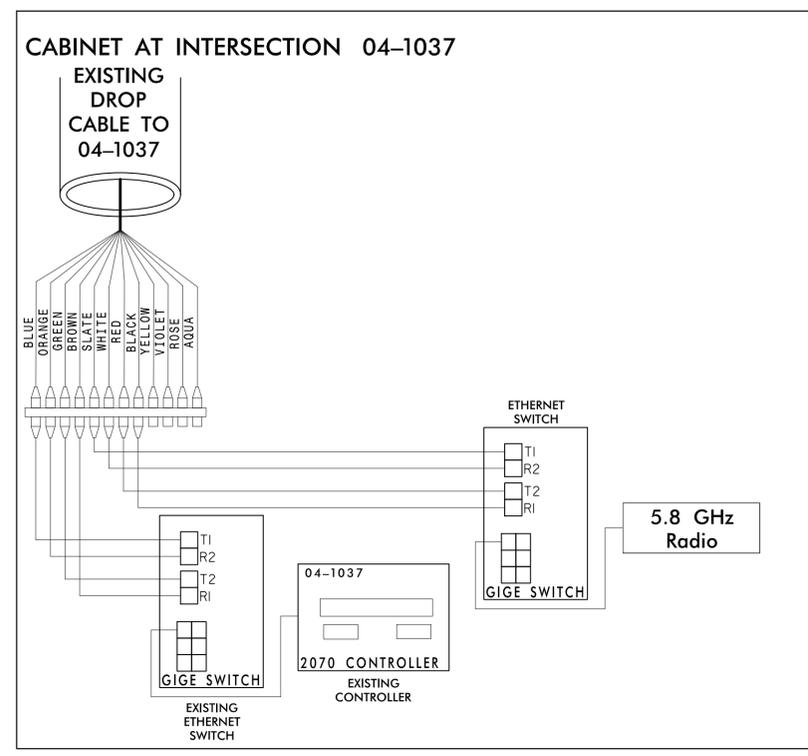
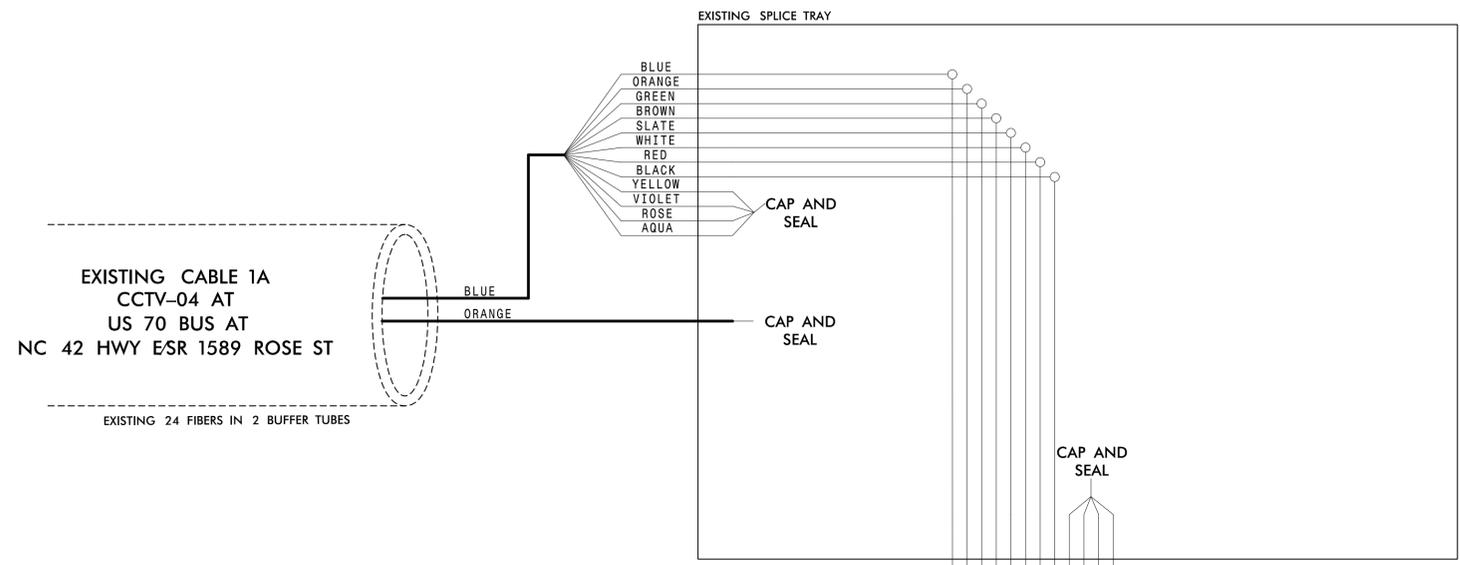
<p>Plans Prepared For:</p> <p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL		
	DIVISION 4 JOHNSTON CO. CLAYTON	PLAN DATE: APRIL 2025 REVIEWED BY: K.W. Smith	
SCALE: 0 N/A	PREPARED BY: M BURKE	REVIEWED BY:	DocuSigned by: SIGNATURE DATE: 5/23/2025

5/22/2025 K:\RAL_TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-03.dgn

COMM GROUP 1 AND 4
MODIFY EXISTING SPLICE ENCLOSURE AT
US 70 BUS AT
NC 42 HWY E/SR 1589(ROSE ST)
SIG ID 04-1037

SEE CABLE ROUTING SHEET 4

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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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 - 4) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - 1) SPLICE LOCATION
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 - 3) COMPANY NAME
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5/22/2025 K:\RAL-TPTD_LITS\010036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-04.dgn

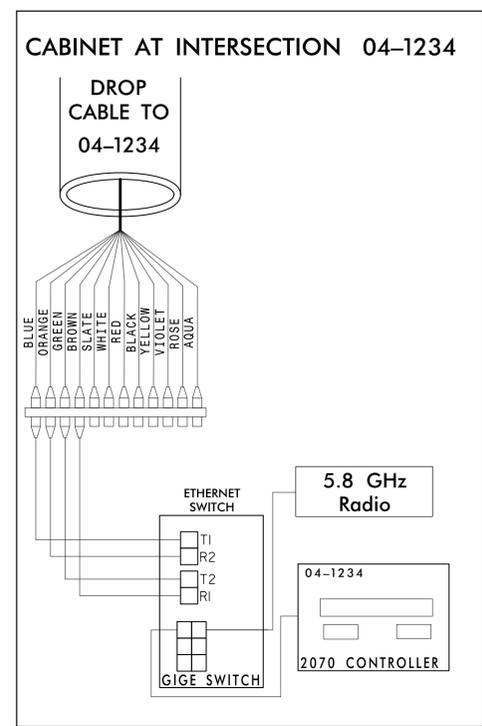
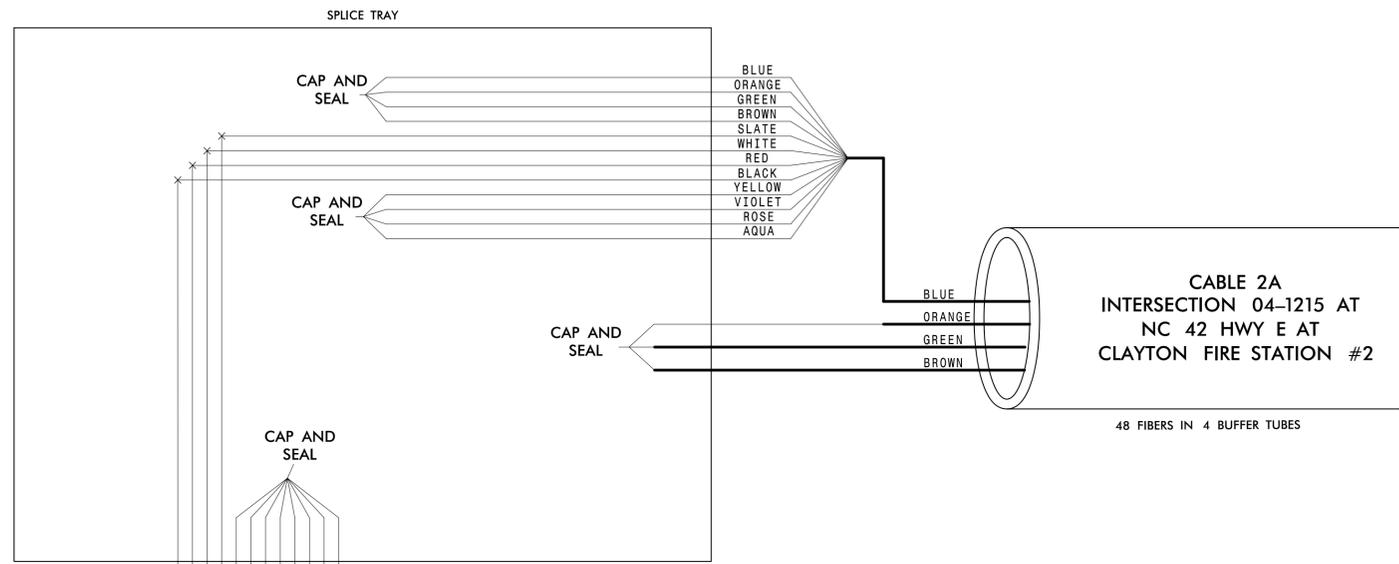
Kimley»Horn
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421 Fayetteville St., Suite 600
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Tel: (919) 677-2000
Fax: (919) 677-2050

<p>Plans Prepared For:</p> <p>750 N. Greenfield Pkwy., Garner, NC 27529</p> <p>SCALE: 0 N/A</p>	TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL		
	DIVISION 4 JOHNSTON CO. CLAYTON PLAN DATE: AUGUST 2024 REVIEWED BY: K.W. Smith PREPARED BY: M BURKE REVIEWED BY:	REVISIONS INIT. DATE	
Signed by: <i>Roger VanDyke</i> 5/23/2025 SIGNATURE DATE CADD Filename:			

COMM GROUP 2
SPLICE ENCLOSURE AT
NC 42 HWY E AT
SR 2851 (EAST FRONT STREET)
SIG ID 04-1234

SEE CABLE ROUTING SHEET 5

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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.
 - 2) CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENTS 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 ARRANGEMENTS DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
 - 3) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND 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.

5/22/2025 K:\RAL_TPTD_LITS\010036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-05.dgn

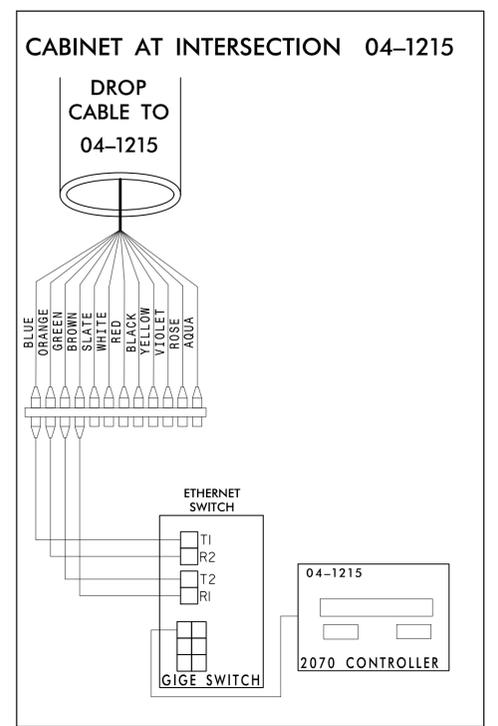
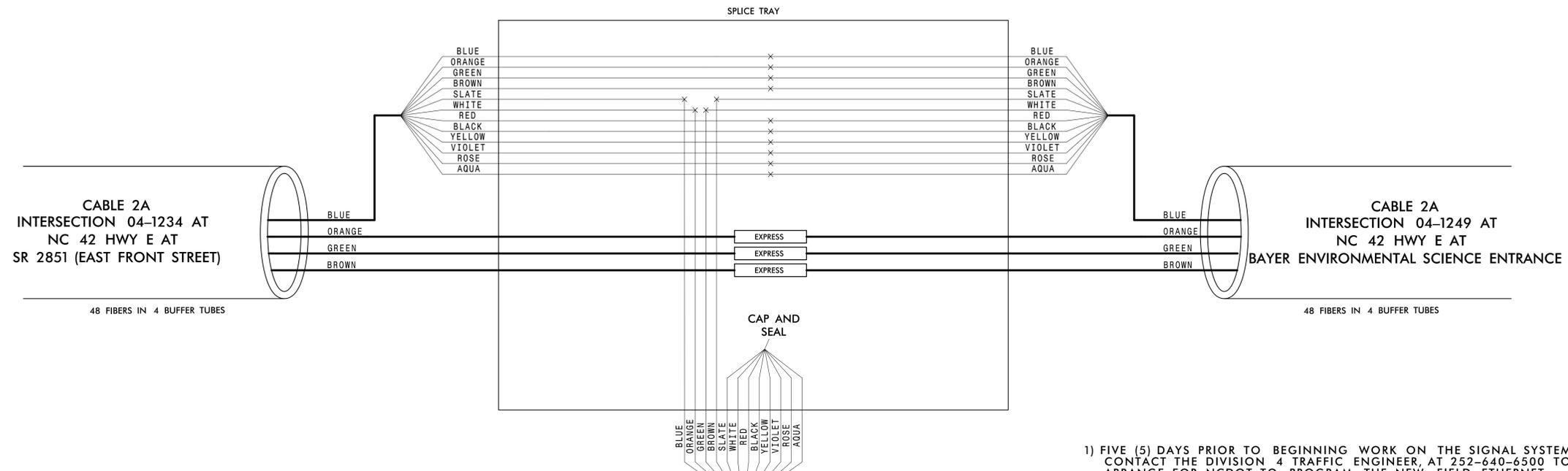
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 Raleigh, NC 27601
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 Fax: (919) 677-2050

<p>Plans Prepared For: TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL</p>	DIVISION 4 JOHNSTON CO. CLAYTON	SEAL
	PLAN DATE: APRIL 2025 REVIEWED BY: K.W. Smith	
PREPARED BY: M BURKE REVIEWED BY:	REVISIONS INIT. DATE	Signed by: 5/23/2025 SIGNATURE DATE
SCALE: 0 N/A	CADD Filename:	

COMM GROUP 2
SPLICE ENCLOSURE AT
NC 42 HWY E AT
CLAYTON FIRE STATION #2
SIG ID 04-1215

SEE CABLE ROUTING SHEET 7

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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 AND 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.

5/22/2025 K:\RAL_TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-06.dgn

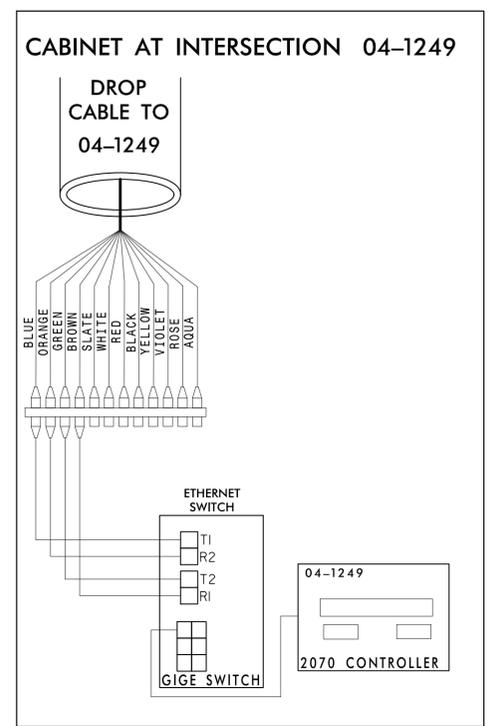
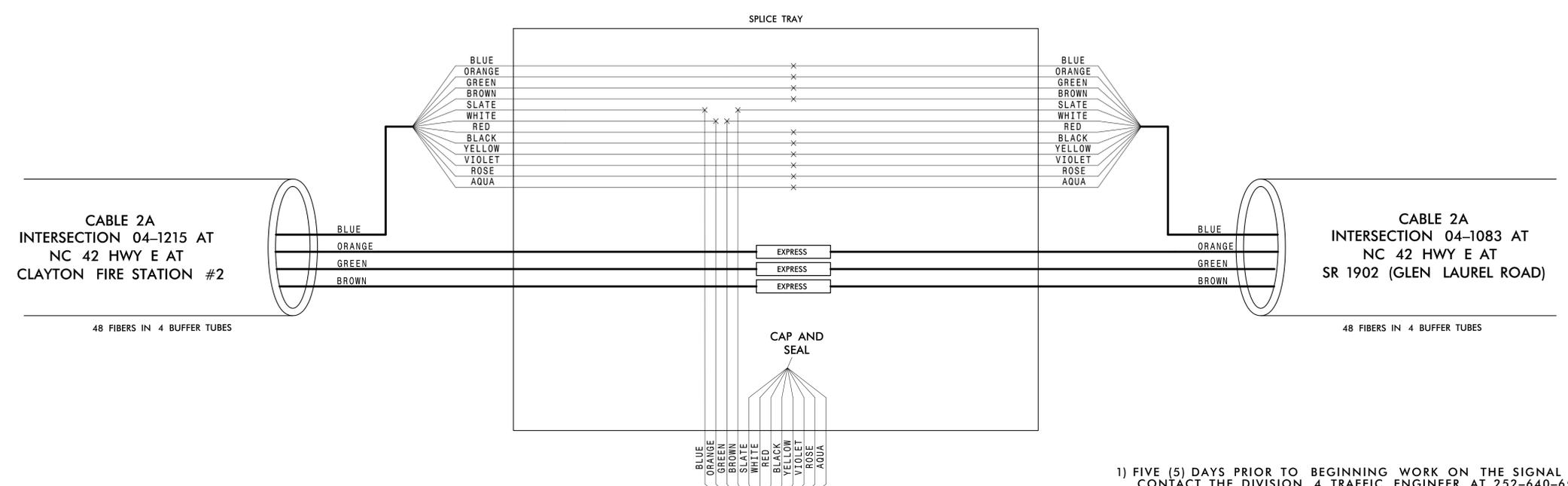
<p>Plans Prepared For:</p> <p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL		
	DIVISION 4 JOHNSTON CO. CLAYTON	PLAN DATE: APRIL 2025 REVIEWED BY: K.W. Smith	
SCALE: 0 N/A	PREPARED BY: M BURKE	REVIEWED BY:	Signed by: <i>Inger VanDyke</i> 5/23/2025 SIGNATURE DATE

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COMM GROUP 2
SPLICE ENCLOSURE AT
NC 42 HWY E AT
BAYER ENVIRONMENTAL SCIENCE ENTRANCE
SIG ID 04-1249

SEE CABLE ROUTING SHEET 8

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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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 - INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - SPLICE LOCATION
 - DATE
 - COMPANY NAME
 - 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.

5/22/2025 K:\RAL_TPTD_LITS\010036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-07.dgn

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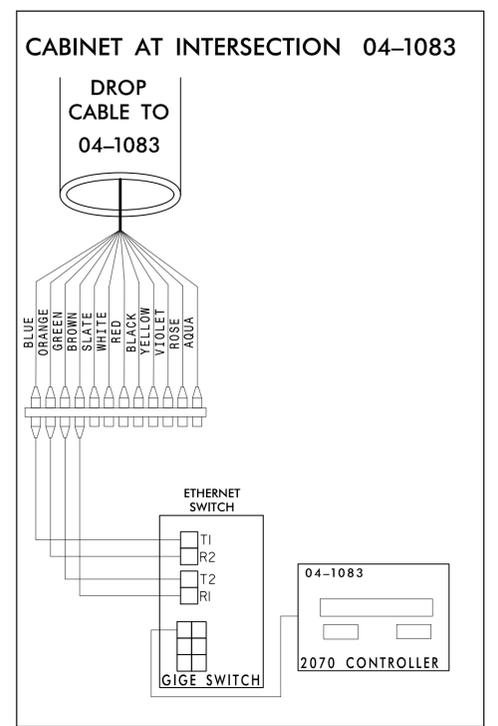
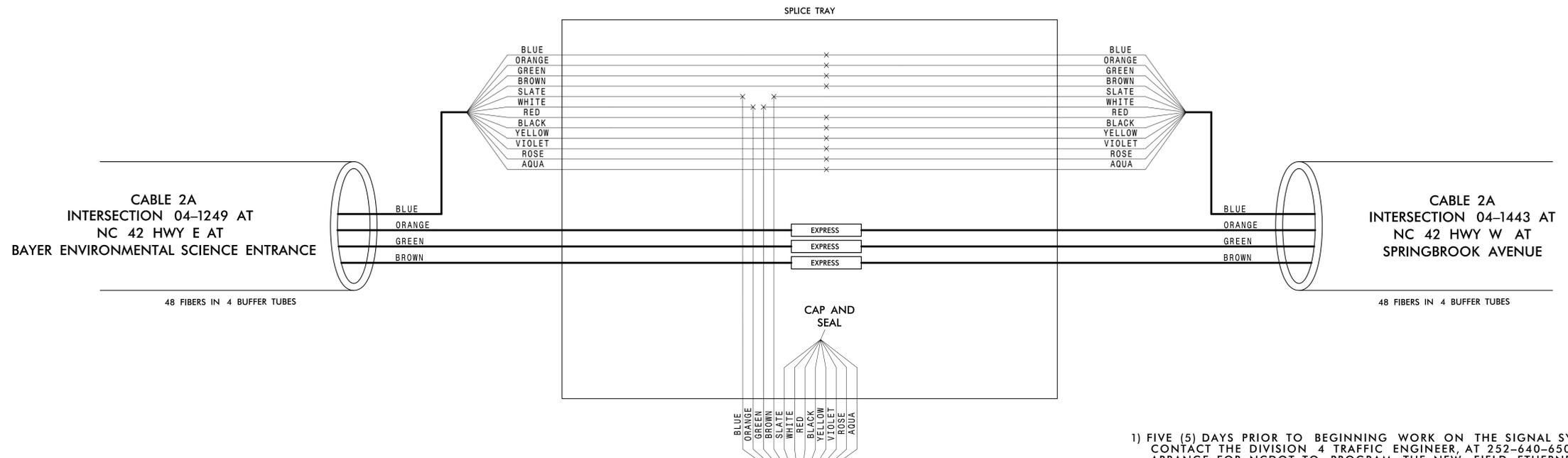
 Plans Prepared For: TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL	DIVISION 4 JOHNSTON CO. CLAYTON		SEAL  INGER Z. VANDYKE PROFESSIONAL ENGINEER 028952
	PLAN DATE: APRIL 2025 PREPARED BY: M BURKE	REVIEWED BY: K.W. Smith REVIEWED BY:	
REVISIONS INIT. DATE			Digitized by:  SIGNATURE DATE 5/23/2025

CADD Filename: _____

COMM GROUP 2
SPLICE ENCLOSURE AT
NC 42 HWY E AT
SR 1902 (GLEN LAUREL ROAD)
SIG ID 04-1083

SEE CABLE ROUTING SHEET 9

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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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 - INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - SPLICE LOCATION
 - DATE
 - COMPANY NAME
 - 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.

5/22/2025 K:\RAL_TPTD_LITS\010036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-08.dgn

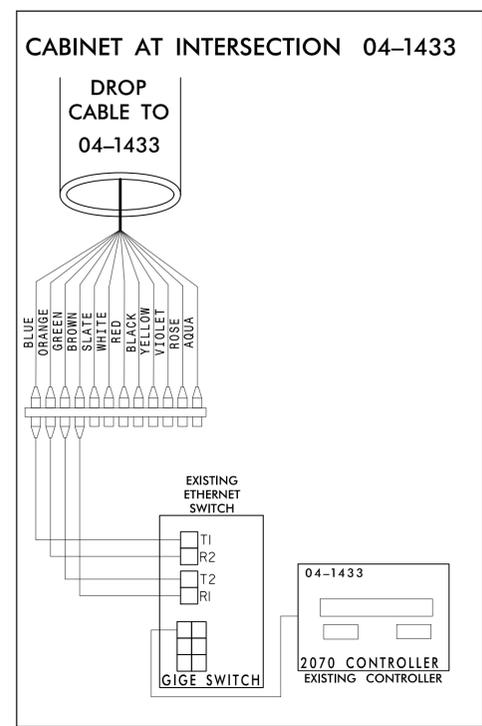
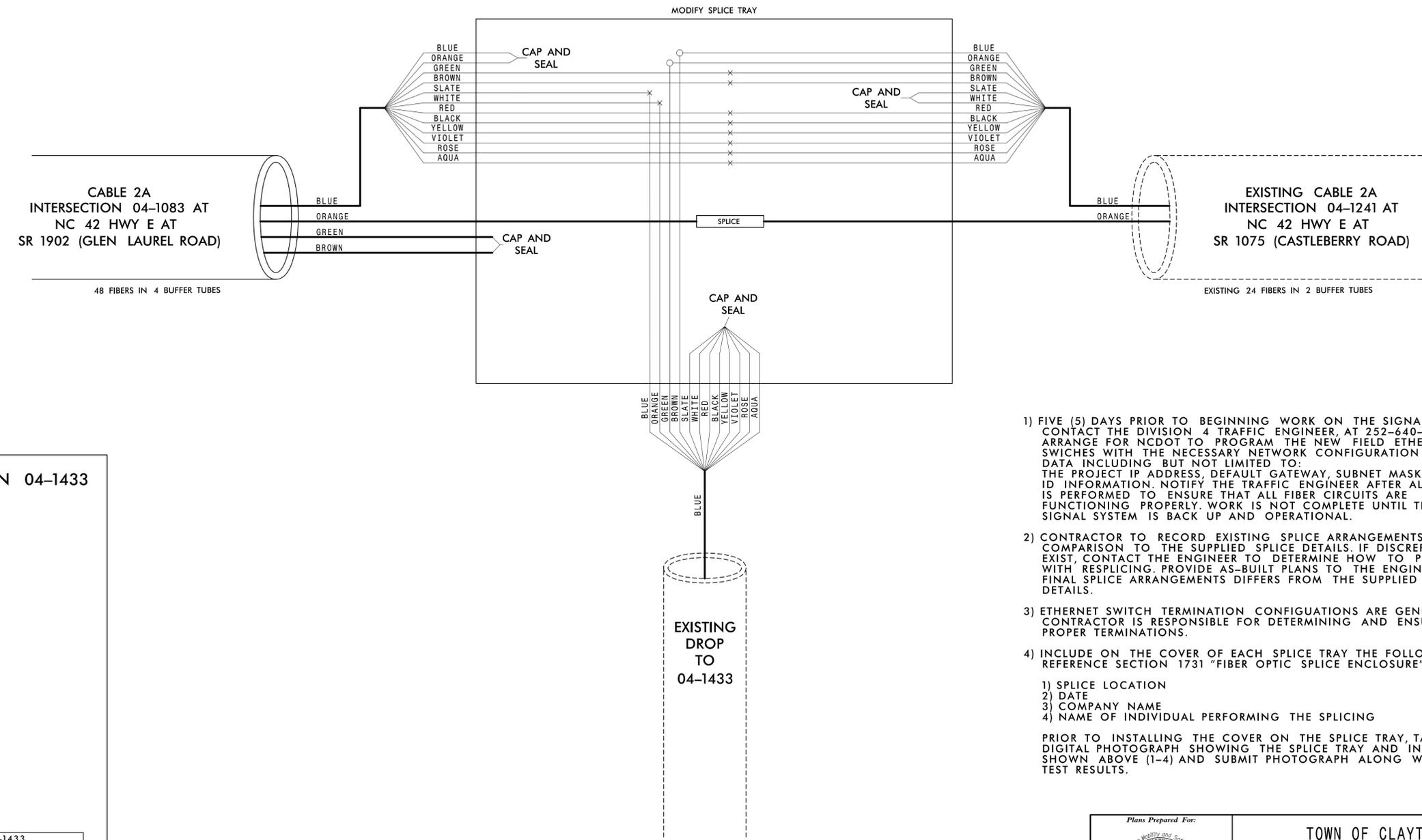
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<p>Plans Prepared For: TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL</p>	DIVISION 4 JOHNSTON CO. CLAYTON		SEAL
	PLAN DATE: APRIL 2025	REVIEWED BY: K.W. Smith	
PREPARED BY: M BURKE	REVISIONS	INIT.	DATE
SCALE 0 N/A	SIGNATURE Inger VanOrstell	DATE 5/23/2025	CADD Filename:

COMM GROUP 2
MODIFY SPlice ENCLOSURE AT
NC 42 HWY E AT
MCKENZIE RIDGE DRIVE
SIG ID 04-1433

SEE CABLE ROUTING SHEET 10

COLOR CODE		LEGEND	
TA	EA		
(1) BLUE	(7) RED	X	- FUSION SPlice INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPlice
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPlice	SPlice ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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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 - ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATIONS.
 - INCLUDE ON THE COVER OF EACH SPlice TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPlice ENCLOSURE"
 - SPlice LOCATION
 - DATE
 - COMPANY NAME
 - 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.

5/22/2025 K:\RAL_TPTD_LITS\01036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-09.dgn

<p>Plans Prepared For:</p> <p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPlice DETAIL		SEAL
	DIVISION 4 JOHNSTON CO. CLAYTON	PLAN DATE: APRIL 2025 REVIEWED BY: K.W. Smith	
SCALE 0 N/A	PREPARED BY: M BURKE	REVIEWED BY:	SIGNATURE DATE _____ _____

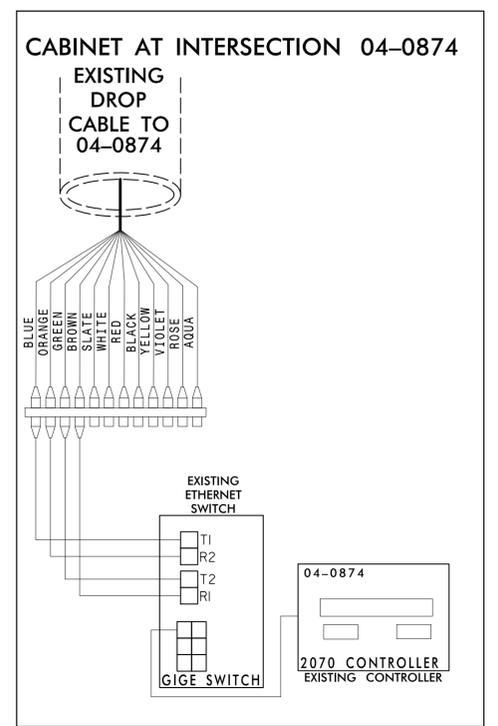
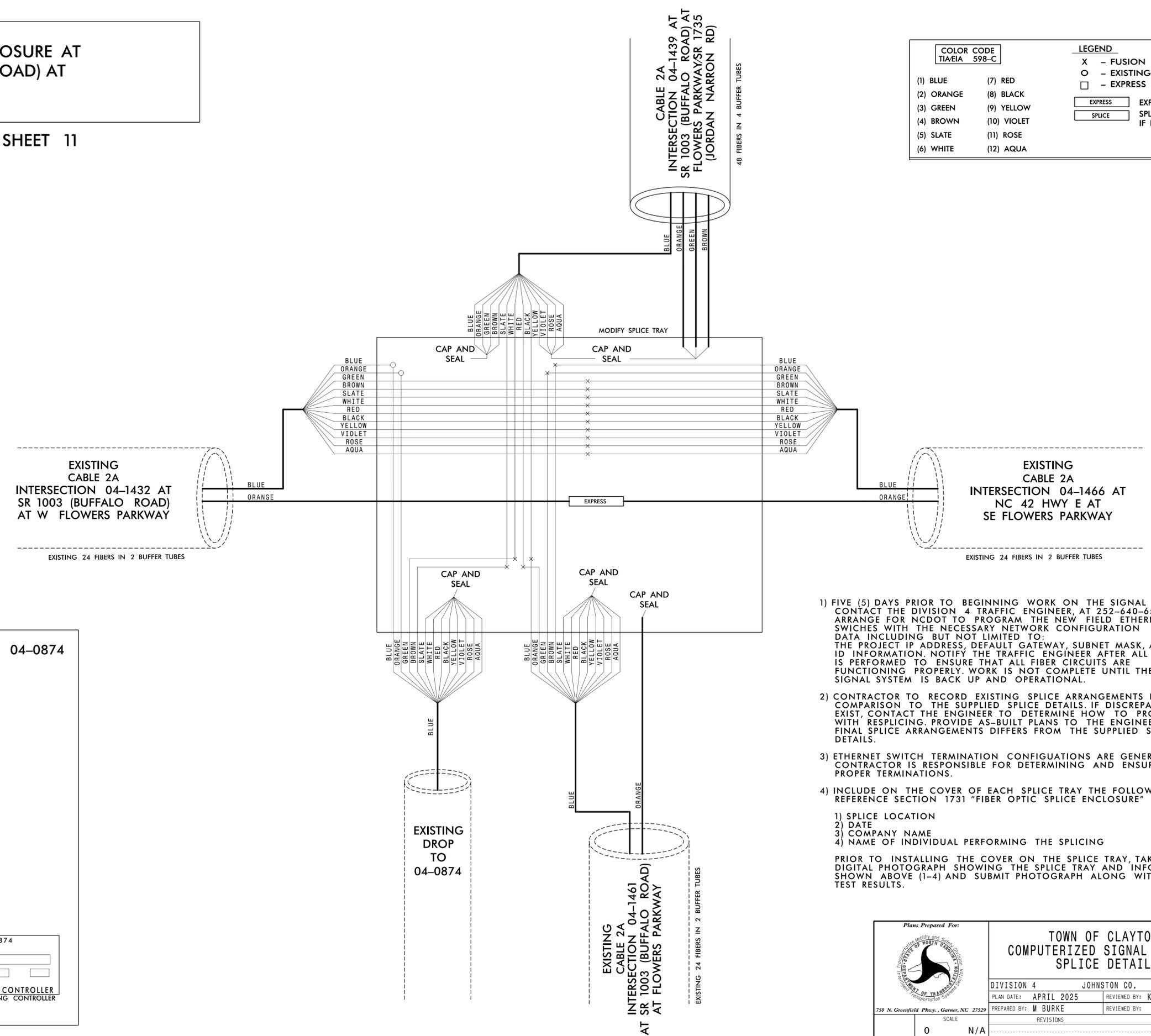
CADD Filename: _____

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 421 Fayetteville St., Suite 600
 Raleigh, NC 27601
 Tel: (919) 677-2000
 Fax: (919) 677-2050

COMM GROUP 2
MODIFY SPICE ENCLOSURE AT
SR 1003 (BUFFALO ROAD) AT
NC 42 HWY E
SIG ID 04-0874

SEE CABLE ROUTING SHEET 11

COLOR CODE		LEGEND	
TIA/EIA	598-C		
(1) BLUE	(7) RED	X	- FUSION SPlice INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPlice
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPICE	SPICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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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 - 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.

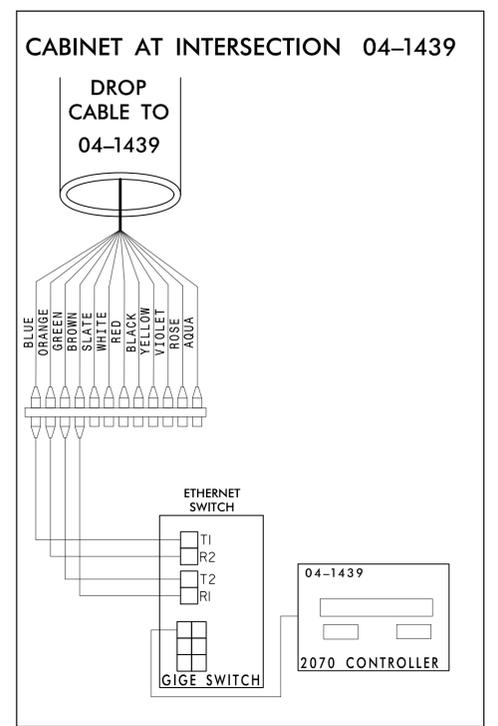
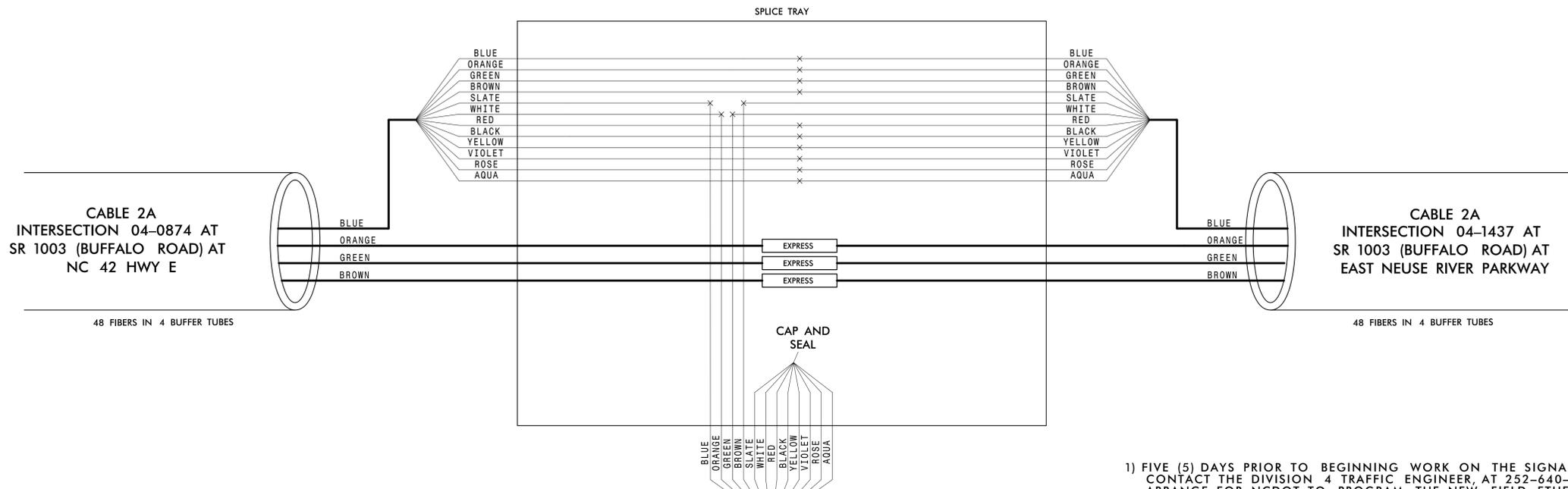
5/22/2025 K:\RAL_TPTD_LITS\010036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-10.dgn

<p>Plans Prepared For:</p> <p>750 N. Greenfield Pkwy., Garner, NC 27529</p> <p>SCALE: 0 N/A</p>	TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPlice DETAIL		
	DIVISION 4 JOHNSTON CO. CLAYTON PLAN DATE: APRIL 2025 REVIEWED BY: K.W. Smith PREPARED BY: M BURKE REVIEWED BY:	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER INGER VANDYKE License #028952 5/23/2025 SIGNATURE DATE CADD Filename:	

COMM GROUP 2
SPLICE ENCLOSURE AT
SR 1003 (BUFFALO ROAD) AT
FLOWERS PARKWAY/SR 1735 (JORDAN NARRON RD)
SIG ID 04-1439

SEE CABLE ROUTING SHEET 12

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
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 - 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.

5/22/2025 K:\RAL_TPTD_LITS\010036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-11.dgn

<p>Plans Prepared For: TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL</p>	DIVISION 4 JOHNSTON CO. CLAYTON		
	PLAN DATE: APRIL 2025	REVIEWED BY: K.W. Smith	
PREPARED BY: M BURKE	REVIEWED BY:	REVISIONS	INIT. DATE
SCALE 0 N/A	SIGNATURE	DATE	DATE

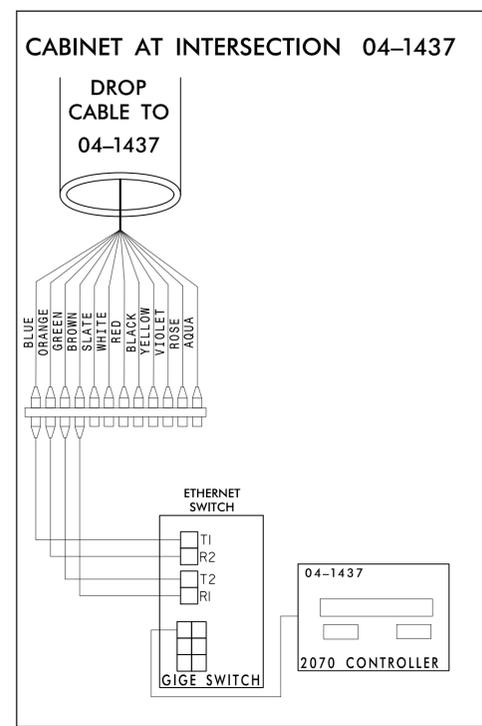
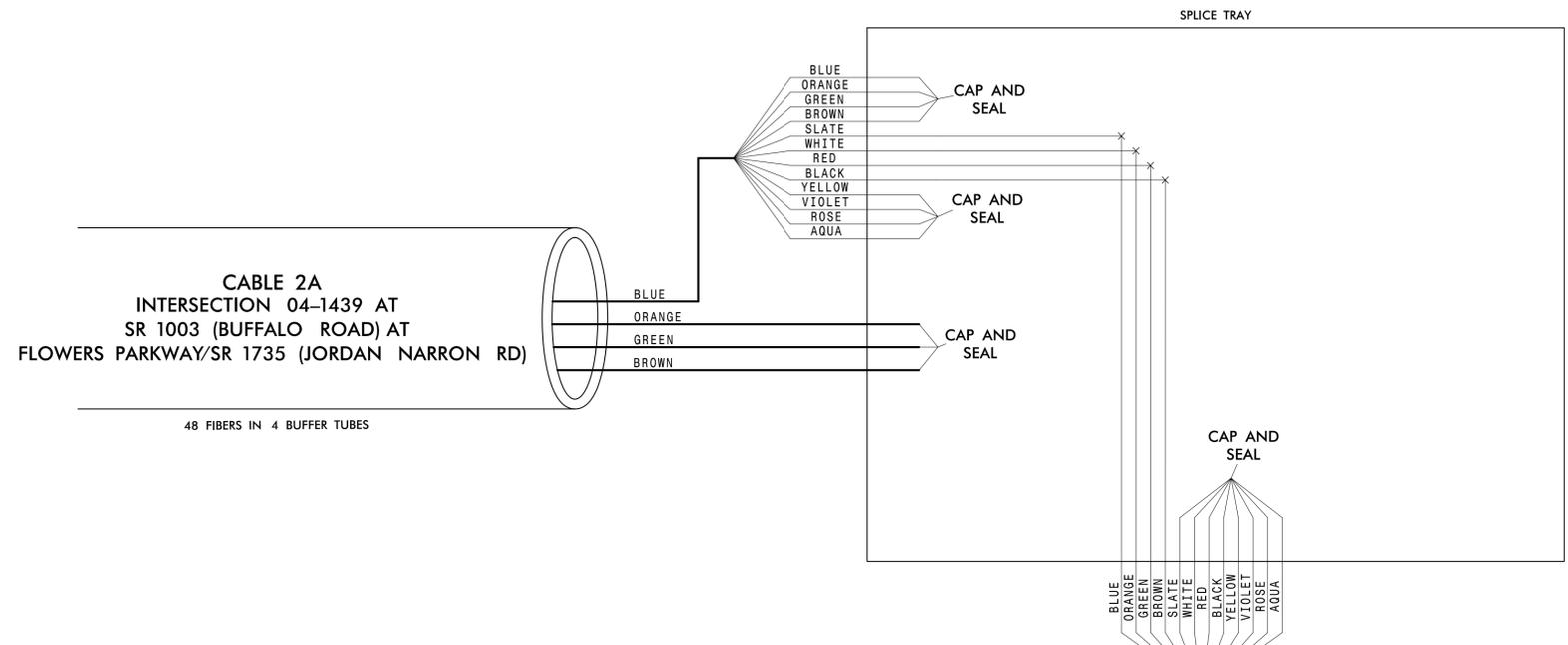
Kimley»Horn
NC License #F-0102
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Raleigh, NC 27601
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5/23/2025
CADD Filename:

COMM GROUP 2
SPLICE ENCLOSURE AT
SR 1003 (BUFFALO ROAD) AT
EAST NEUSE RIVER PARKWAY
SIG ID 04-1437

SEE CABLE ROUTING SHEET 14

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X	- FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	O	- EXISTING SPLICE
(3) GREEN	(9) YELLOW	□	- EXPRESS INDIVIDUAL FIBER
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE
(5) SLATE	(11) ROSE	SPLICE	SPLICE ENTIRE BUFFER TUBE OR MAINTAIN IF EXISTING EXPRESSED
(6) WHITE	(12) AQUA		



- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 4 TRAFFIC ENGINEER, AT 252-640-6500 TO ARRANGE FOR NCDOT 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 TRAFFIC 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.
 - CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENTS 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 ARRANGEMENTS DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
 - ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATIONS.
 - INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - SPLICE LOCATION
 - DATE
 - COMPANY NAME
 - 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.

<p>Plans Prepared For:</p> <p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	TOWN OF CLAYTON COMPUTERIZED SIGNAL SYSTEM SPLICE DETAIL		
	DIVISION 4 JOHNSTON CO. CLAYTON		
PLAN DATE: APRIL 2025	REVIEWED BY: K.W. Smith		DocuSigned by: 5/23/2025
PREPARED BY: M BURKE	REVIEWED BY:		
SCALE 0 N/A	REVISIONS	INIT. DATE	SIGNATURE DATE

CADD File name: _____

5/22/2025 K:\RAL_TPTD_LITS\010036622_Clayton_SignalSystem\6_Tasks\1\CADD\7_Splicing\U-5943B\U-5943B_SCP-12.dgn