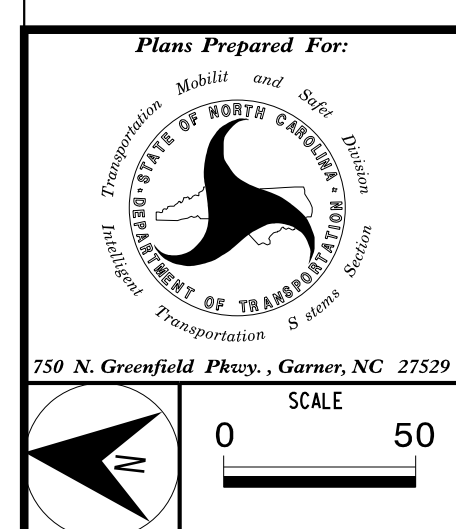


3/17/2022 K:\ARL\TPTD\ITS\01036569 Gastonia SignalSystem\6_Tasks\Plans\Cable Routing\SHIT201_CR.dgn

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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	63	BOND RISER TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
										75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE 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:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

Kimley»Horn

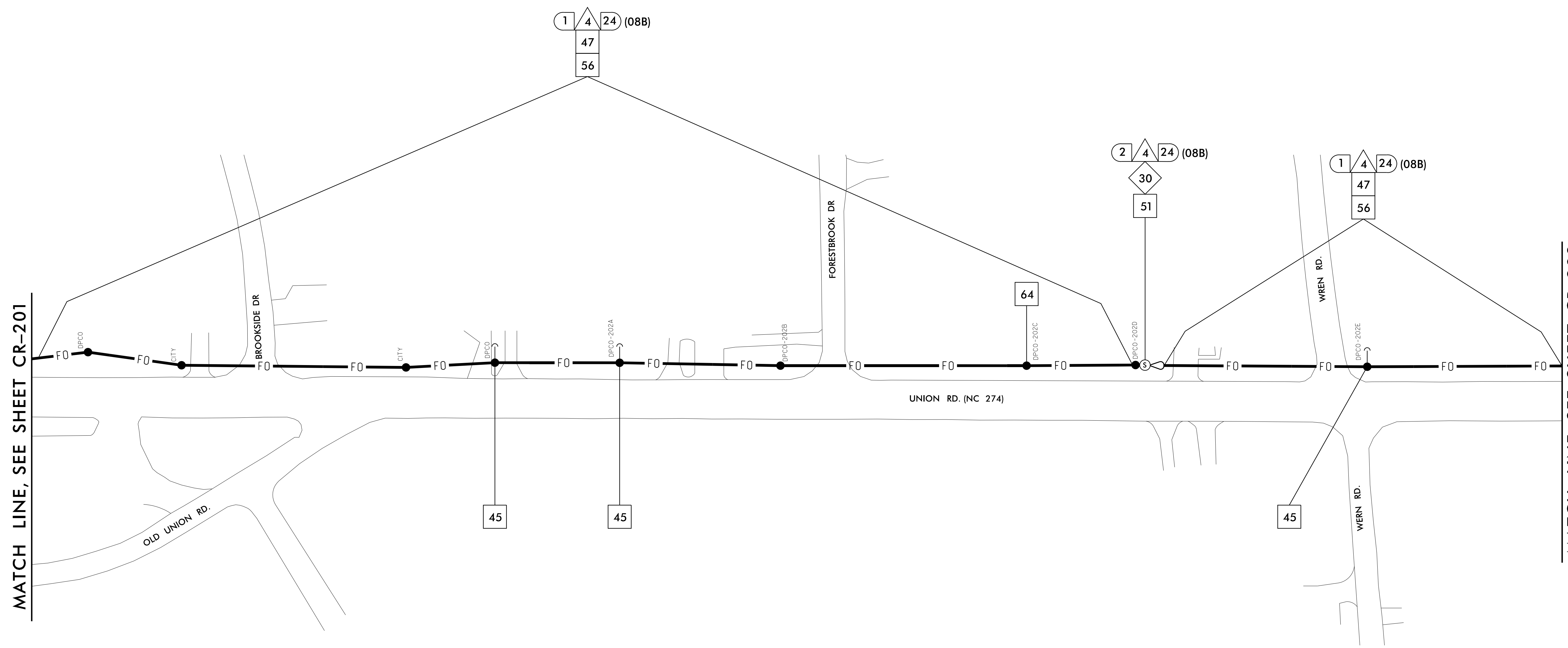
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SEAL

North Carolina Professional Engineer Seal 028952

DocuSigned by:
Inger Van Osdel 3/18/2022

CADD File name:



MATCH LINE, SEE SHEET CR-201

MATCH LINE, SEE SHEET CR-203

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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
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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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

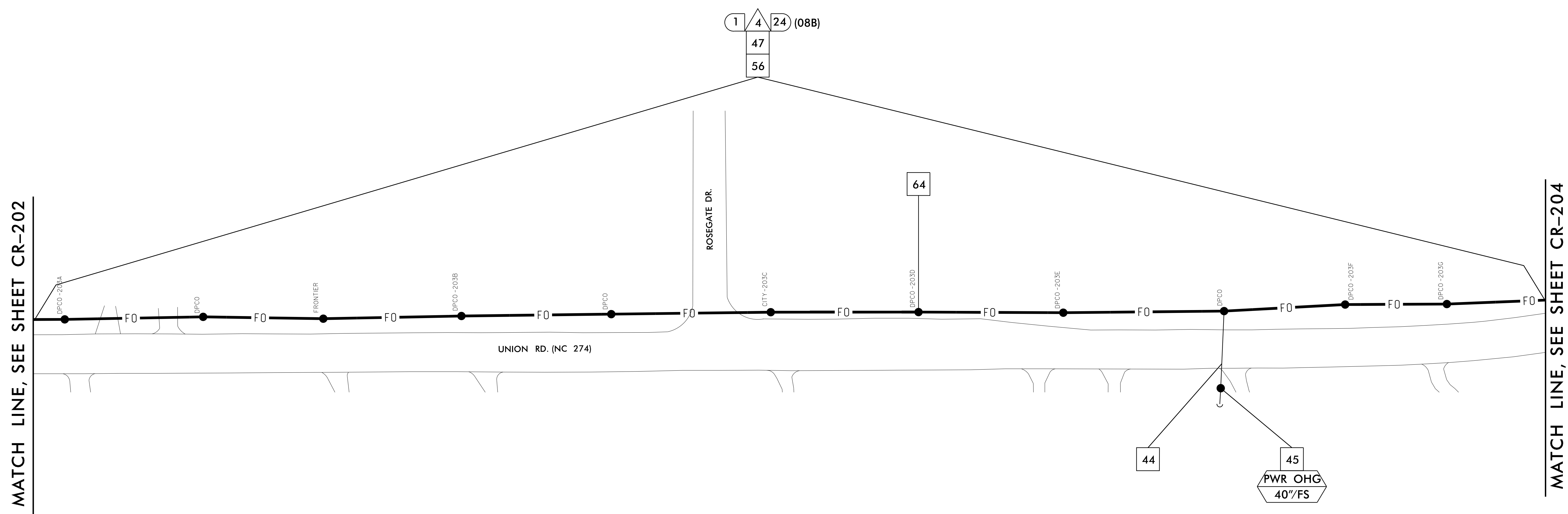
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Plans Prepared For:
CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY
 PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH
 PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

250 N. Greenfield Pkwy., Garner, NC 27529
 SCALE 0 50
 REVISIONS INIT. DATE
 DocuSigned by: Inger Van Osdel 3/18/2022
 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 CADD File name:



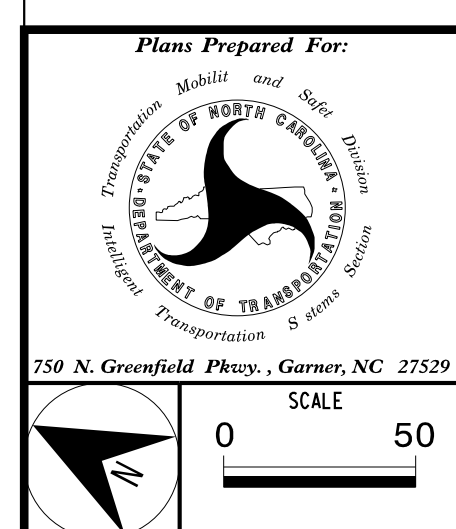
MATCH LINE, SEE SHEET CR-202

MATCH LINE, SEE SHEET CR-204

3/17/2022 KARAL.TPTD.LTS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT203.CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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									63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM	

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
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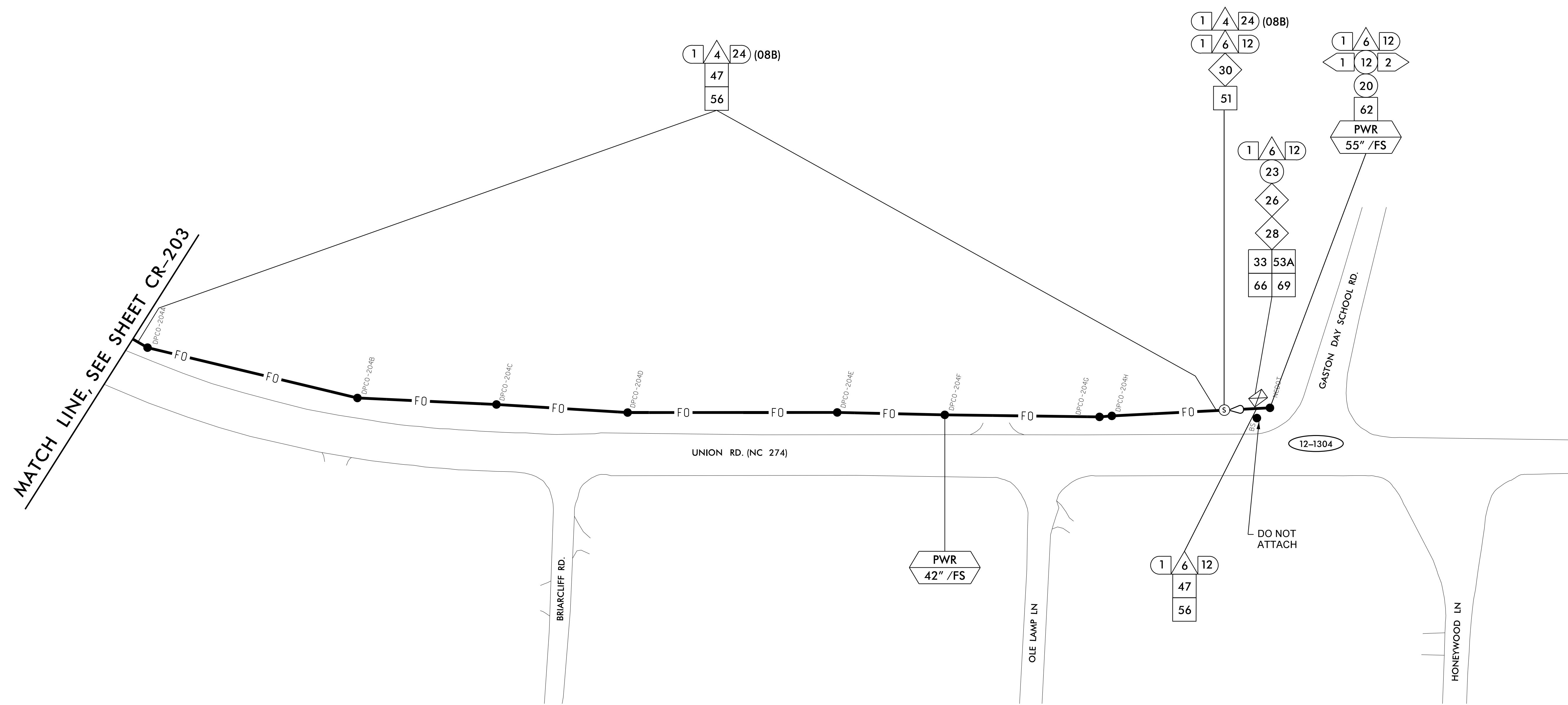
CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12		GASTON COUNTY	
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH	PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT.	DATE	

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:

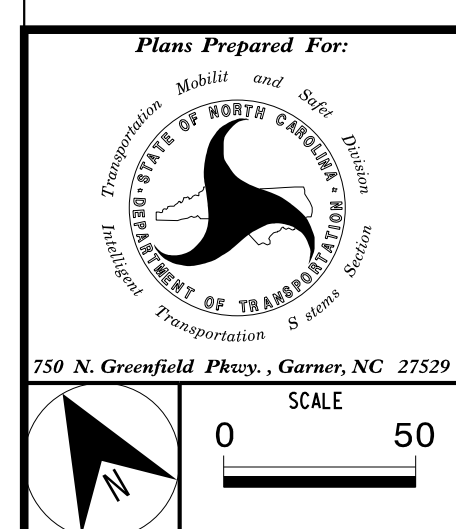
MATCH LINE, SEE SHEET CR-203



3/17/2022 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT204_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

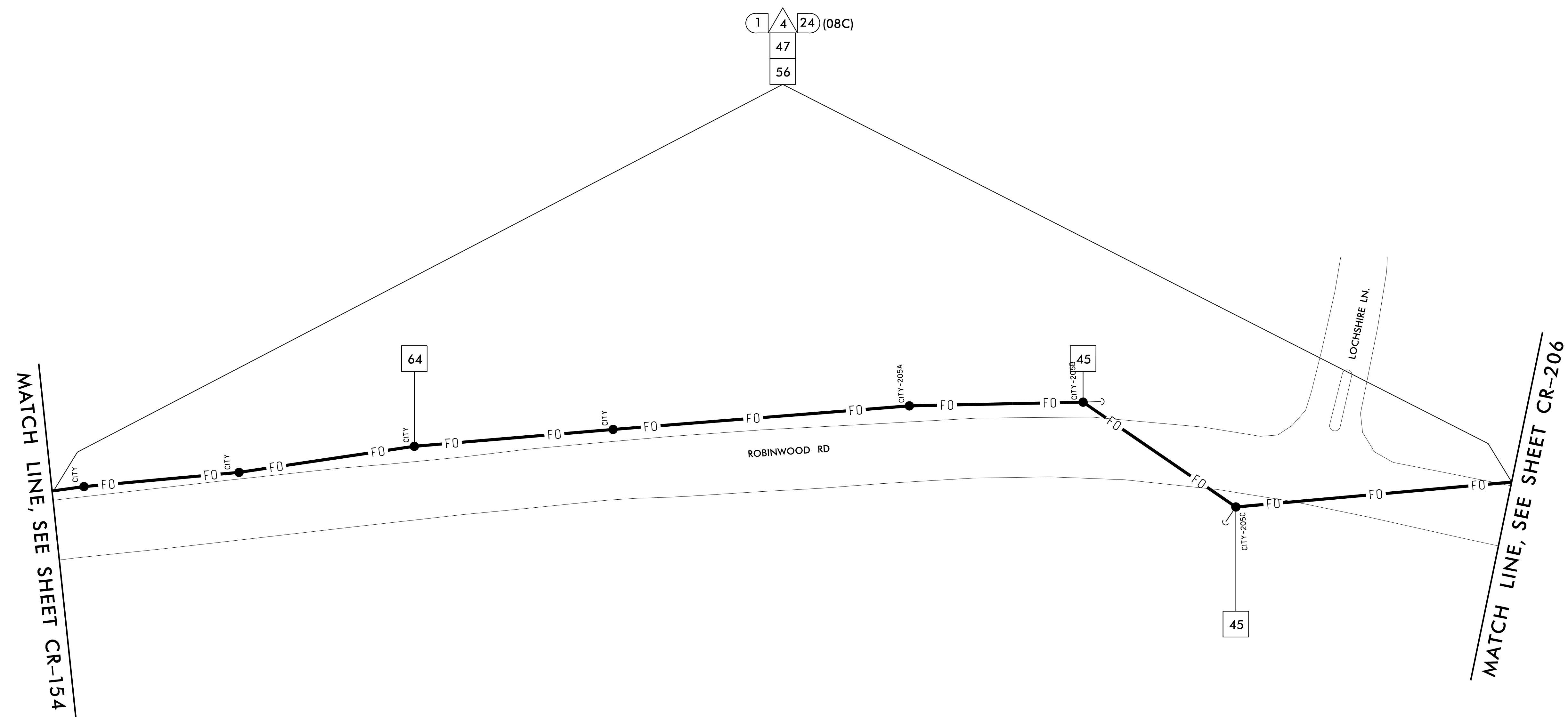
SCALE: 0 50

DocuSigned by: Roger Van Osdel 3/18/2022

CADD File name:

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

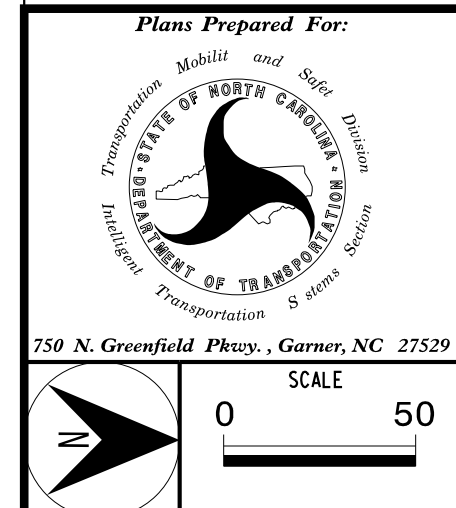
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 ROGER Z. VAN OSDEL



3/17/2022 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT205_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

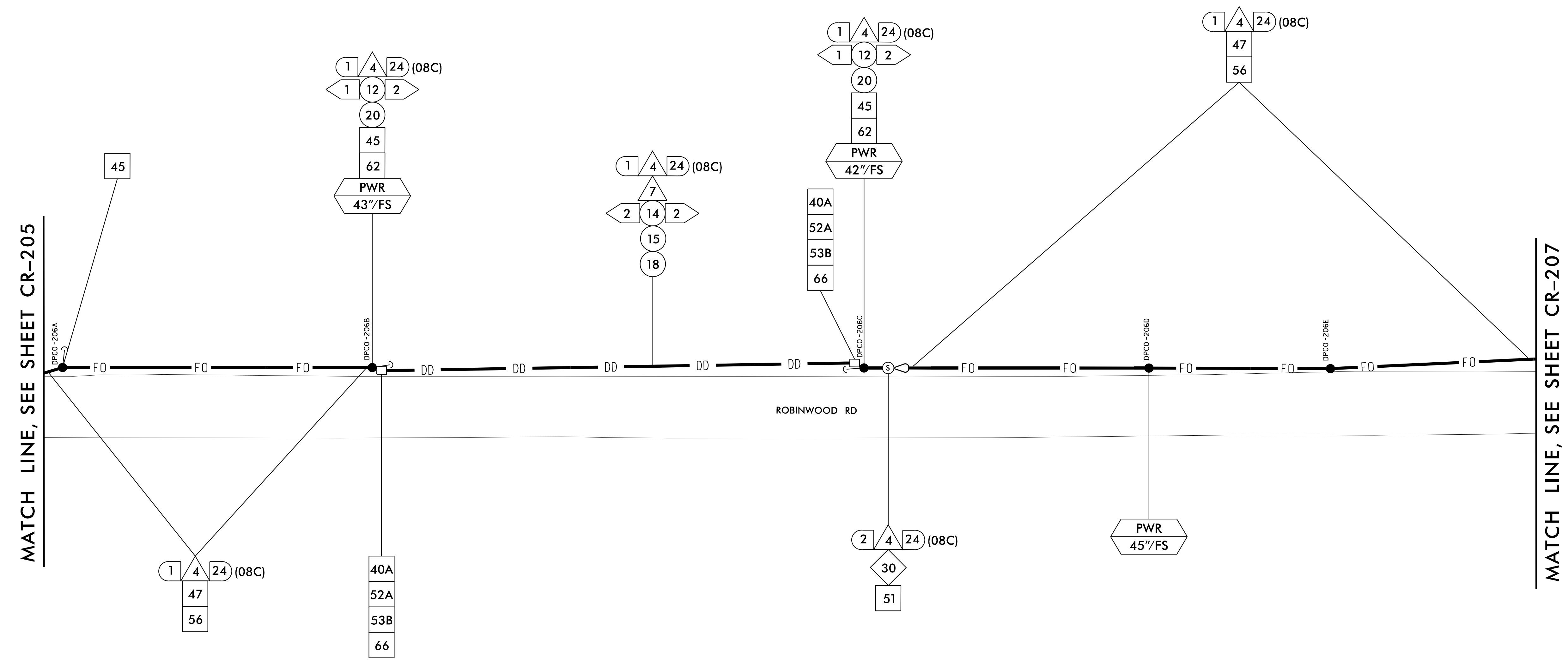
NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 Roger Z. Van Osdel
 DATE 3/18/2022
 CADD File name:



MATCH LINE, SEE SHEET CR-205

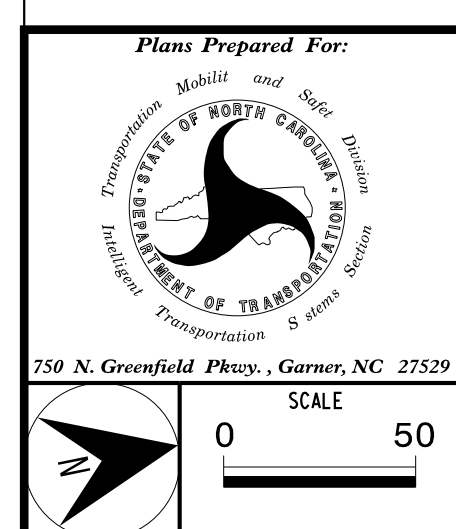
MATCH LINE, SEE SHEET CR-207

3/17/2022 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT206_CR.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 | 44. INSTALL AERIAL GUY ASSEMBLY | 53A. STORE 20 FEET OF COMMUNICATIONS CABLE | 64. BOND MESSENGER CABLE TO POLE GROUND |
| 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 | 45. INSTALL STANDARD GUY ASSEMBLY | 53B. STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65. INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3. EXISTING ETHERNET (OR COAX) CABLE | 14. INSTALL POLYETHYLENE CONDUIT | 25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36. INSTALL CCTV CAMERA ASSEMBLY | 46. INSTALL SIDEWALK GUY ASSEMBLY | 54. LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66. INSTALL MOLDABLE DUCT SEAL |
| 4. INSTALL SMFO CABLE | 15. DIRECTIONAL DRILL CONDUIT | 26. INSTALL NEW ETHERNET EDGE SWITCH | 37. INSTALL CCTV CAMERA WOOD POLE | 47. INSTALL MESSENGER CABLE | 55. LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67. SLACK SPAN |
| 5. EXISTING SMFO CABLE | 16. BORE AND JACK CONDUIT | 27. INSTALL NEW FIBER OPTIC TRANSCEIVER | 38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A. REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56. LASH CABLE(S) TO NEW MESSENGER CABLE | 68. INSTALL CABINET BASE ADAPTER |
| 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 | 48B. REMOVE EXISTING COMMUNICATIONS CABLE | 57. MODIFY EXISTING ELECTRICAL SERVICE | 69. REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7. INSTALL TRACER WIRE | 18. INSTALL CABLE(S) IN NEW CONDUIT | 29. INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A. INSTALL OVERSIZED JUNCTION BOX | 49. BACK PULL EXISTING COMMUNICATIONS CABLE | 58. INSTALL NEW ELECTRICAL SERVICE | 70. REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 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") | 50. INSTALL CELL MODEM AND ANTENNA | 59. INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71. REMOVE EXISTING CCTV CAMERA CABINET |
| 9. INSTALL PVC CONDUIT | 20. INSTALL CABLE(S) IN NEW RISER | 31. MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41. REMOVE EXISTING JUNCTION BOX | 51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60. BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72. REMOVE CABINET FOUNDATION |
| 10. INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21. INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32. INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42. INSTALL WOOD POLE | 52A. INSTALL DELINEATOR MARKER | 61. DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73. MODIFY EXISTING CABINET FOUNDATION |
| 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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43. REMOVE EXISTING WOOD POLE | 52B. INSTALL JUNCTION BOX MARKER | 62. BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74. REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | 63. BOND RISER TO POLE GROUND | 75. INSTALL WIRELESS ETHERNET SYSTEM |

NOTES:

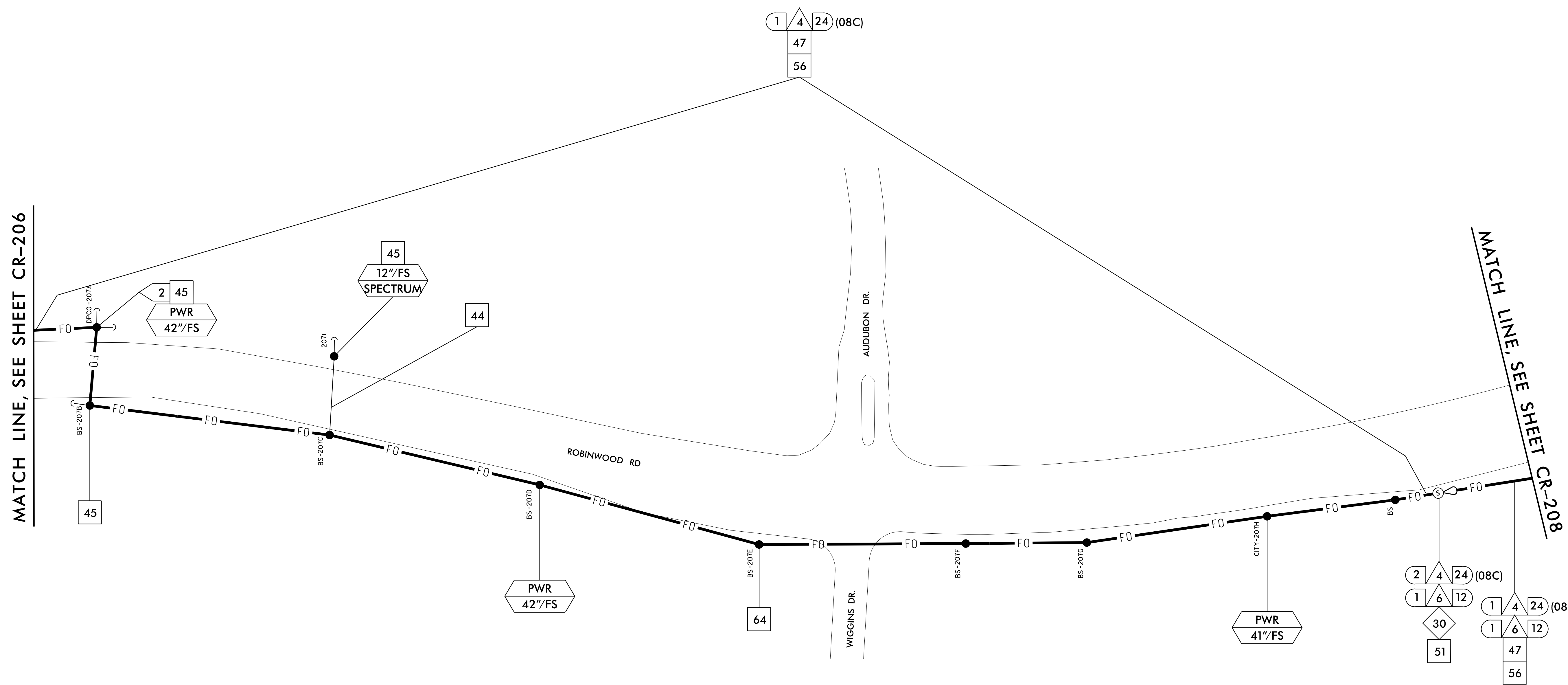
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DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:



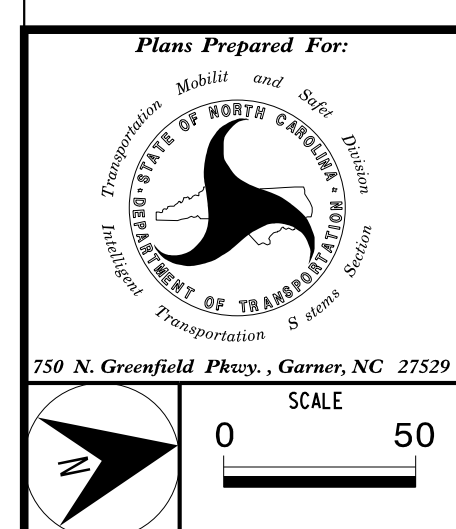
MATCH LINE, SEE SHEET CR-206

MATCH LINE, SEE SHEET CR-208

3/17/2022 K:\RAL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT207_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

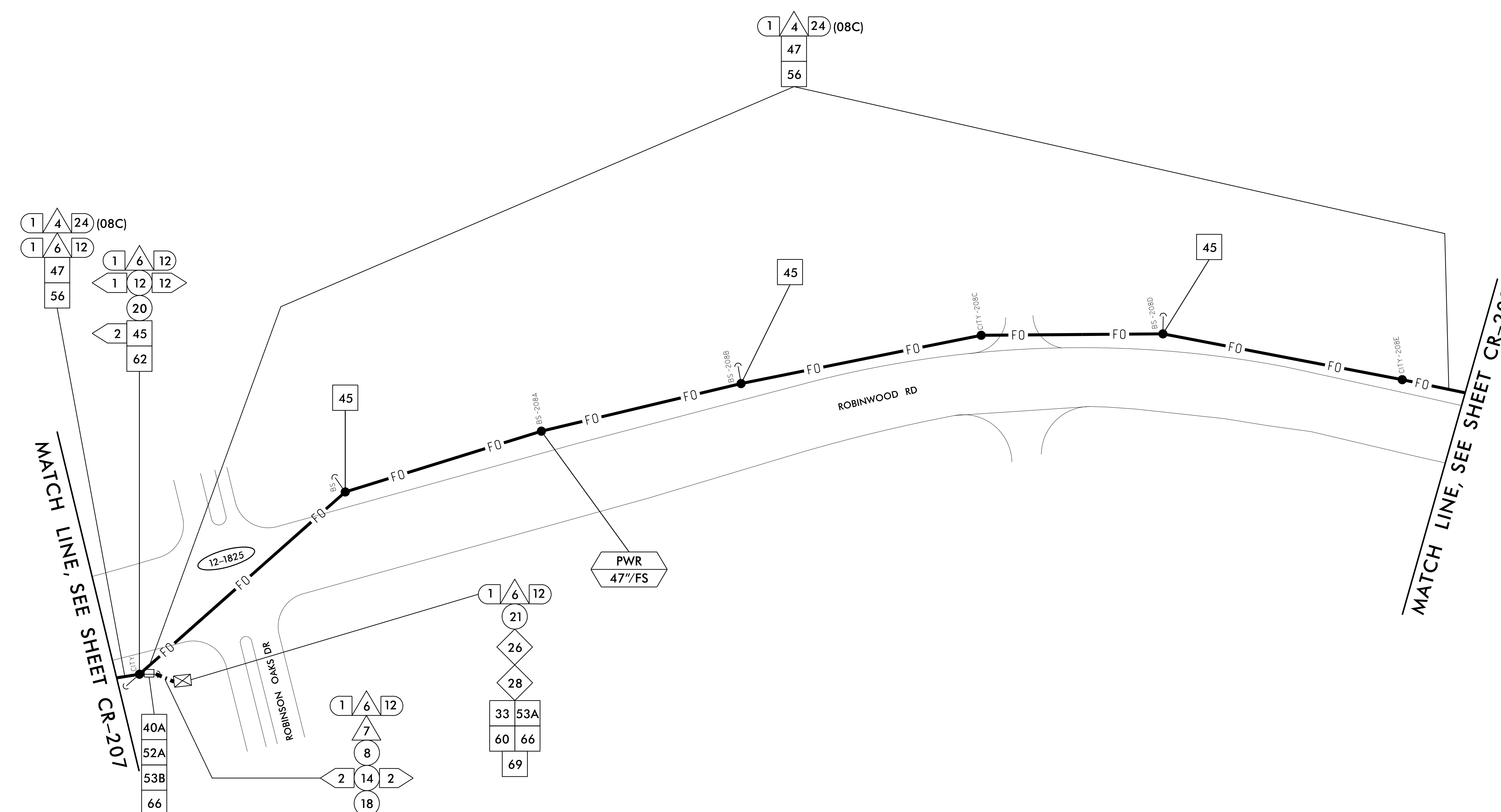
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DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

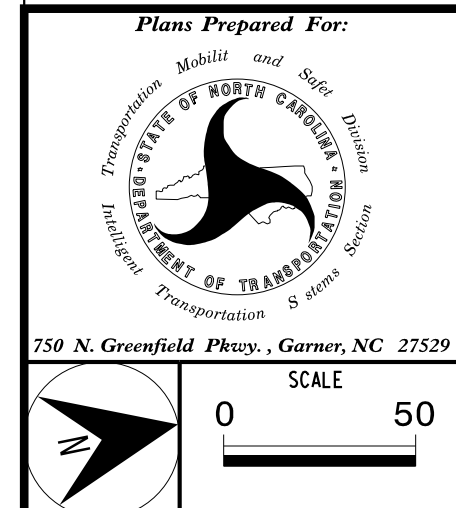
Kimley-Horn
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 Fax: (919) 677-2050

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022



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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDBABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
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NOTES:
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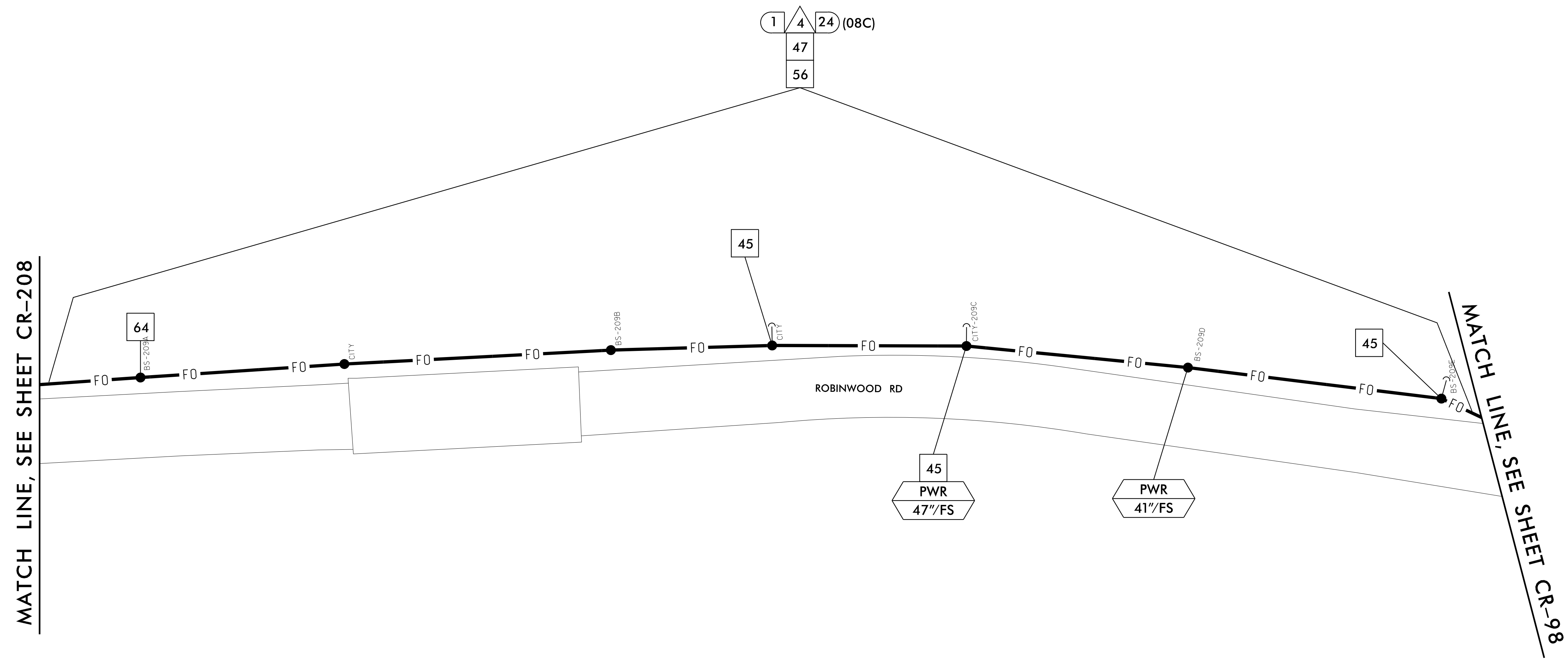


CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12 GASTON COUNTY	
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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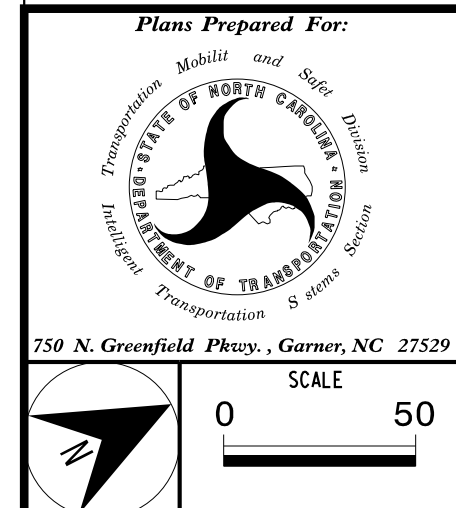
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
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 CADD File name:

3/17/2022 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT208_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

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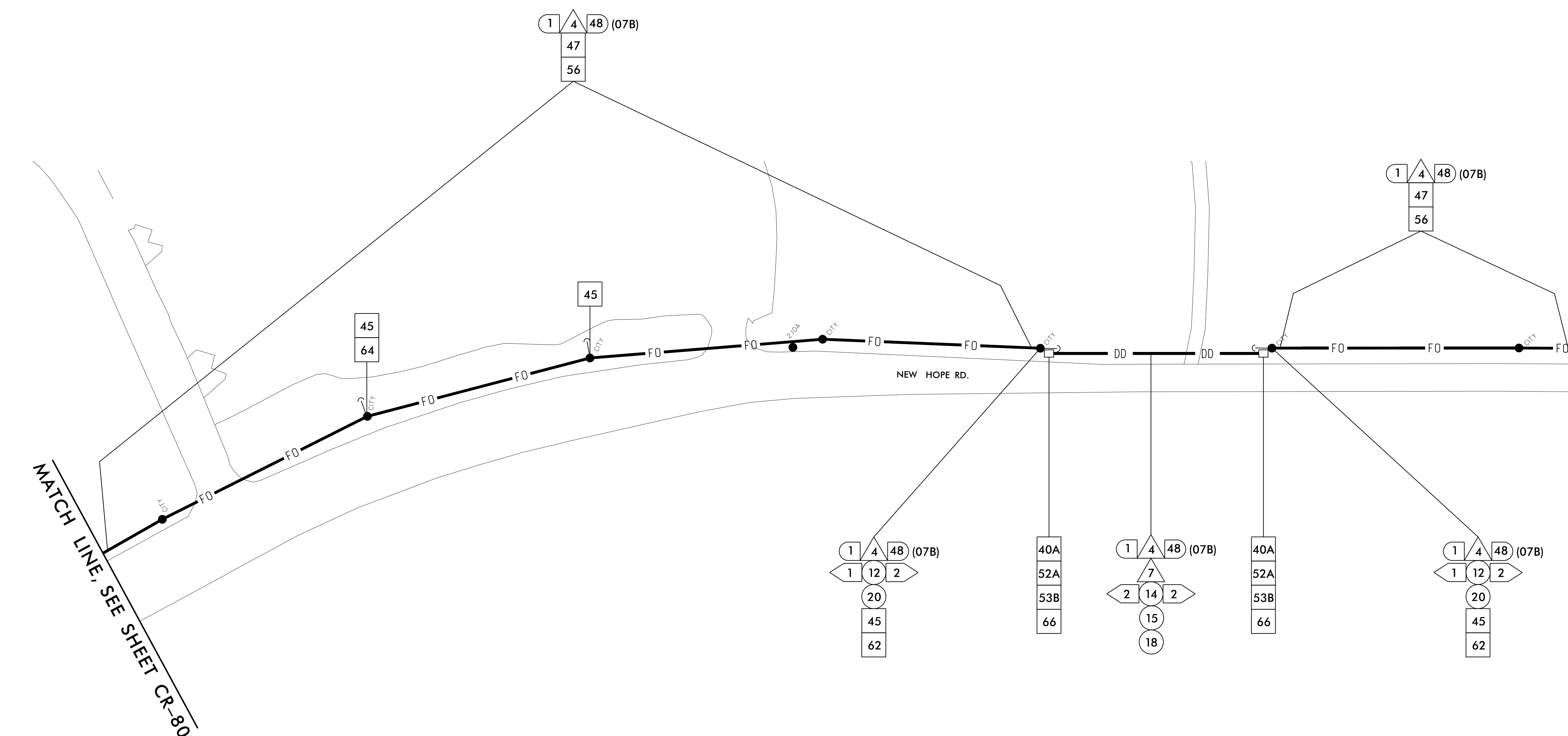
SEAL

ROGER Z. VAN OSDEL
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 License # 028952

DocuSigned by:
 Roger Van Osdel
 3/18/2022

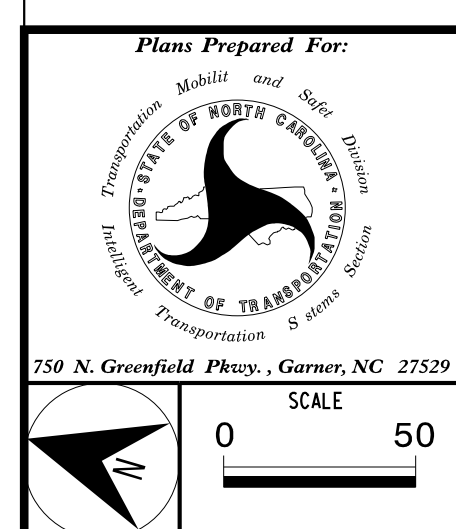
CADD File name:

3/17/2022
 K:\ARL\TPTD\ITS\01036569 Gastonia SignalSystem\6_Tasks\Plans\Cable Routing\SHI209_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE 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:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

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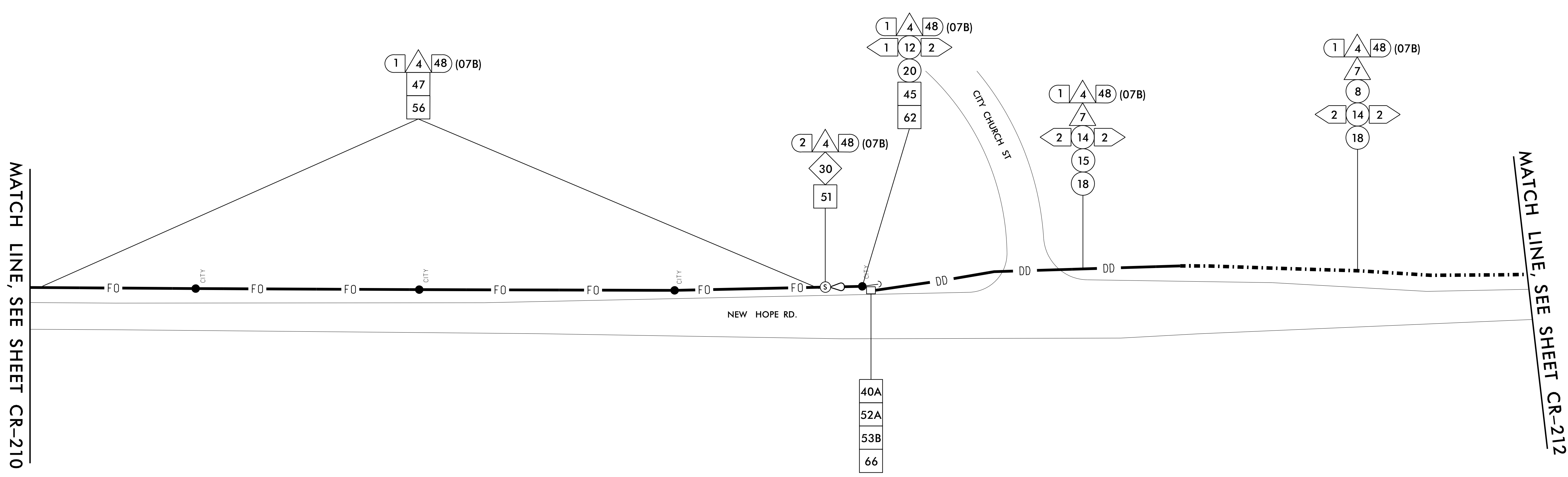
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CADD File name:

3/17/2022 K:\ARL\TPTD\ITS\01036569 Gastonia SignalSystem\6_Tasks\Plans\Cable Routing\SH210_CR.dgn



MATCH LINE, SEE SHEET CR-210

MATCH LINE, SEE SHEET CR-212

3/17/2022 KARAL_TPTD.LTS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SHI21L_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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									63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM	

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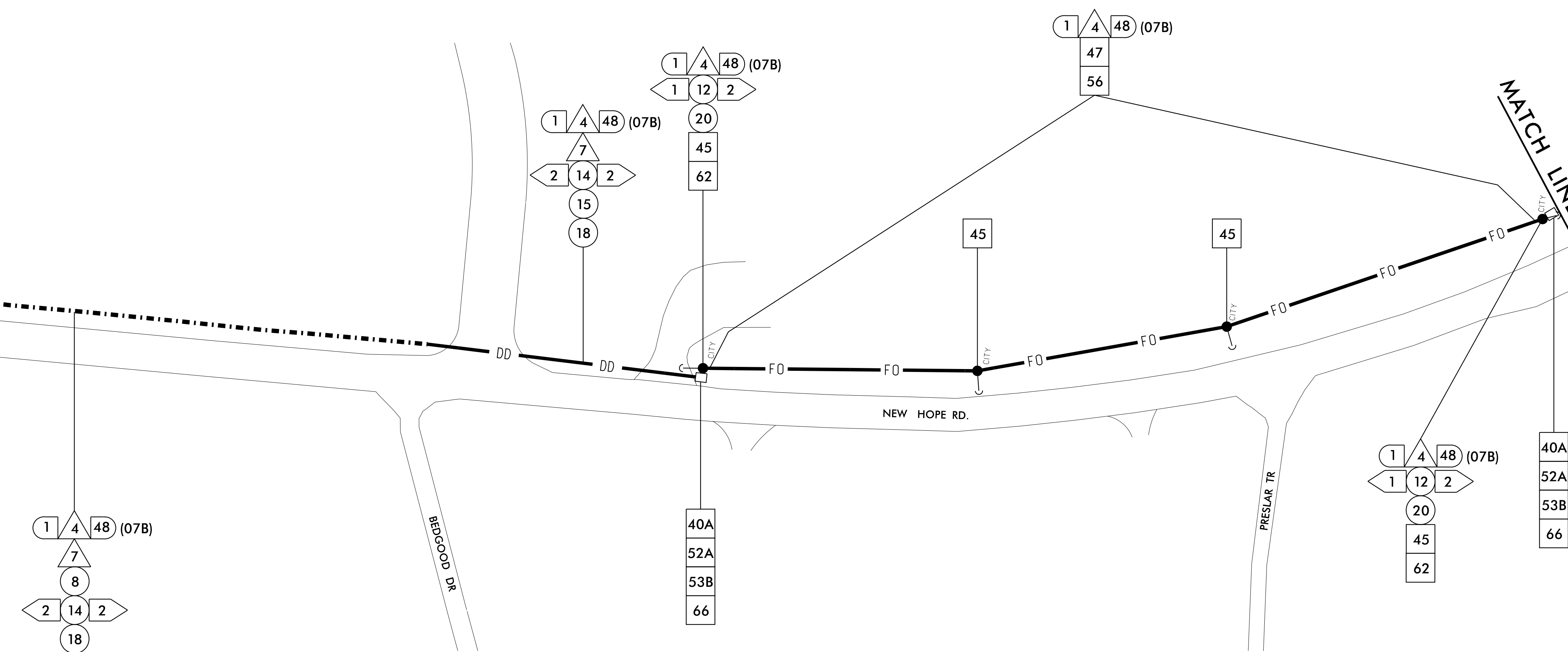
CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:

MATCH LINE, SEE SHEET CR-211

MATCH LINE, SEE SHEET CR-213

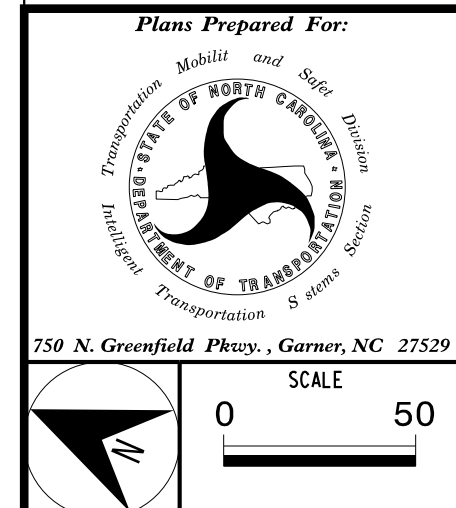


3/17/2022 K:\ARL\TPTD\ITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT212_CR.dgn

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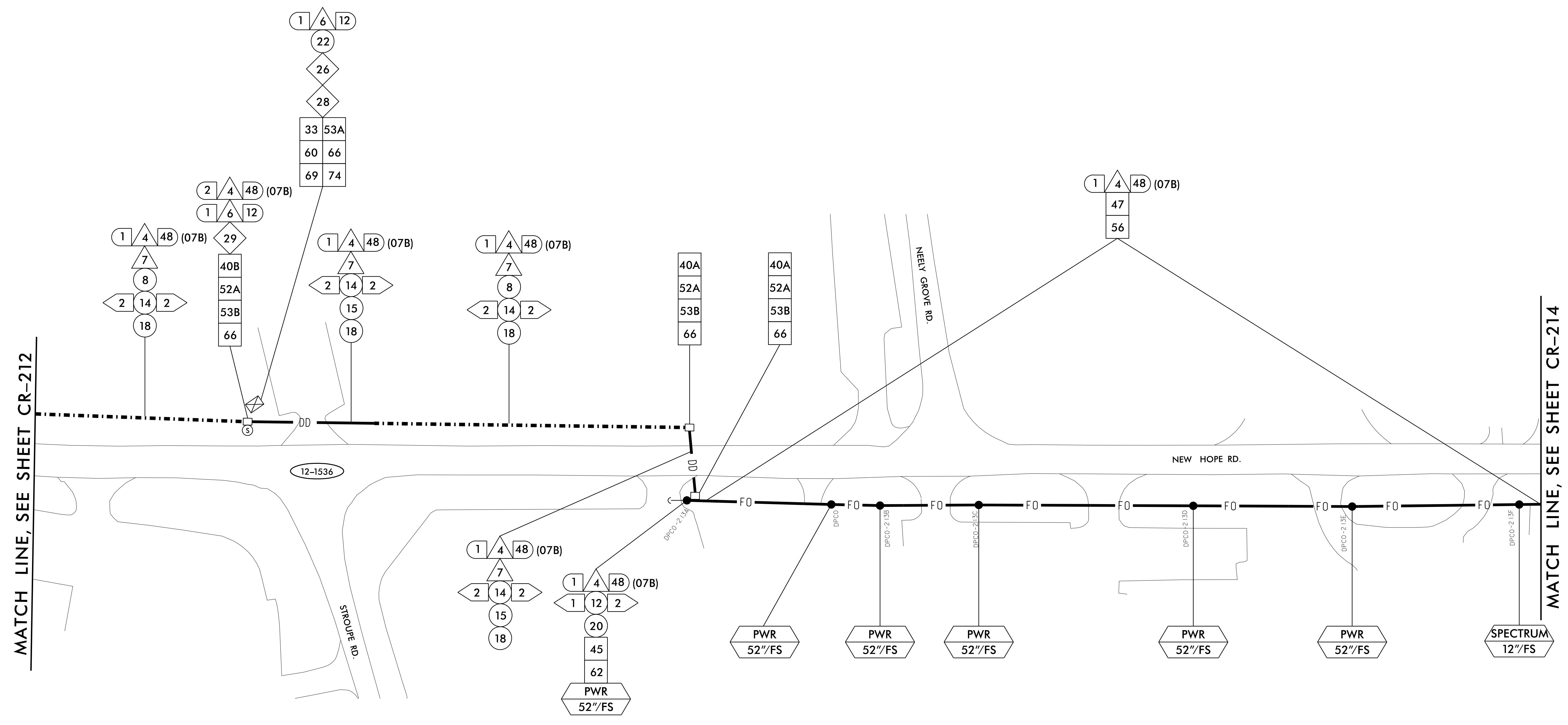
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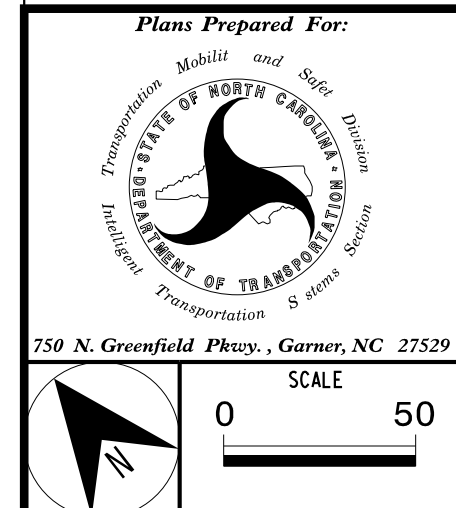
Plans Prepared For:		CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12		GASTON COUNTY	
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH		
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL		
REVISIONS	INIT.	DATE	

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| 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 | 45. INSTALL STANDARD GUY ASSEMBLY | 53B. STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65. INSTALL HEAT SHRINK TUBING RETROFIT KIT |
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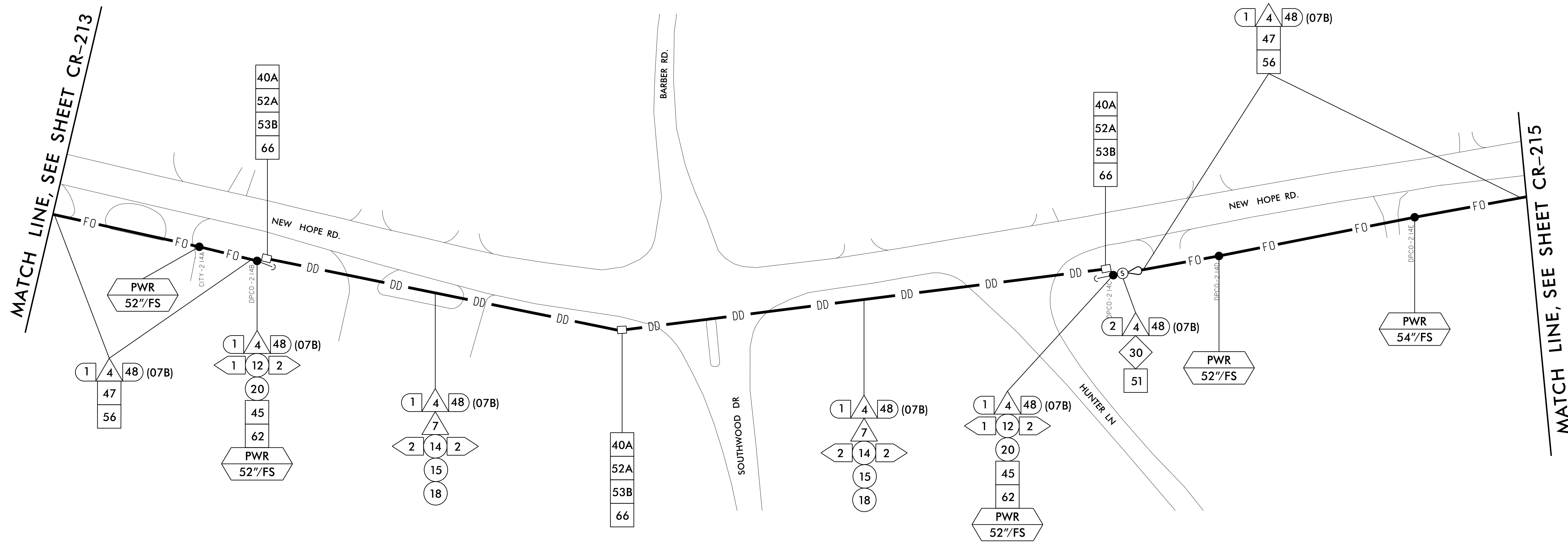


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PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
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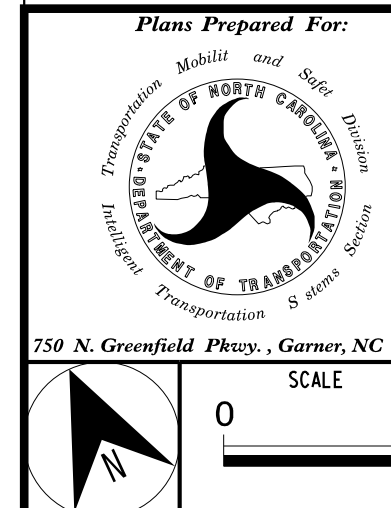
MATCH LINE, SEE SHEET CR-213

MATCH LINE, SEE SHEET CR-215

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| 4. INSTALL SMFO CABLE | 15. DIRECTIONAL DRILL CONDUIT | 26. INSTALL NEW ETHERNET EDGE SWITCH | 37. INSTALL CCTV CAMERA WOOD POLE | 47. INSTALL MESSENGER CABLE | 55. LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67. SLACK SPAN |
| 5. EXISTING SMFO CABLE | 16. BORE AND JACK CONDUIT | 27. INSTALL NEW FIBER OPTIC TRANSCEIVER | 38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A. REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56. LASH CABLE(S) TO NEW MESSENGER CABLE | 68. INSTALL CABINET BASE ADAPTER |
| 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 | 48B. REMOVE EXISTING COMMUNICATIONS CABLE | 57. MODIFY EXISTING ELECTRICAL SERVICE | 69. REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7. INSTALL TRACER WIRE | 18. INSTALL CABLE(S) IN NEW CONDUIT | 29. INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A. INSTALL OVERSIZED JUNCTION BOX | 49. BACK PULL EXISTING COMMUNICATIONS CABLE | 58. INSTALL NEW ELECTRICAL SERVICE | 70. REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 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") | 50. INSTALL CELL MODEM AND ANTENNA | 59. INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71. REMOVE EXISTING CCTV CAMERA CABINET |
| 9. INSTALL PVC CONDUIT | 20. INSTALL CABLE(S) IN NEW RISER | 31. MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41. REMOVE EXISTING JUNCTION BOX | 51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60. BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72. REMOVE CABINET FOUNDATION |
| 10. INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21. INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32. INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42. INSTALL WOOD POLE | 52A. INSTALL DELINEATOR MARKER | 61. DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73. MODIFY EXISTING CABINET FOUNDATION |
| 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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43. REMOVE EXISTING WOOD POLE | 52B. INSTALL JUNCTION BOX MARKER | 62. BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74. REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | 63. BOND RISER TO POLE GROUND | 75. INSTALL WIRELESS ETHERNET SYSTEM |

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

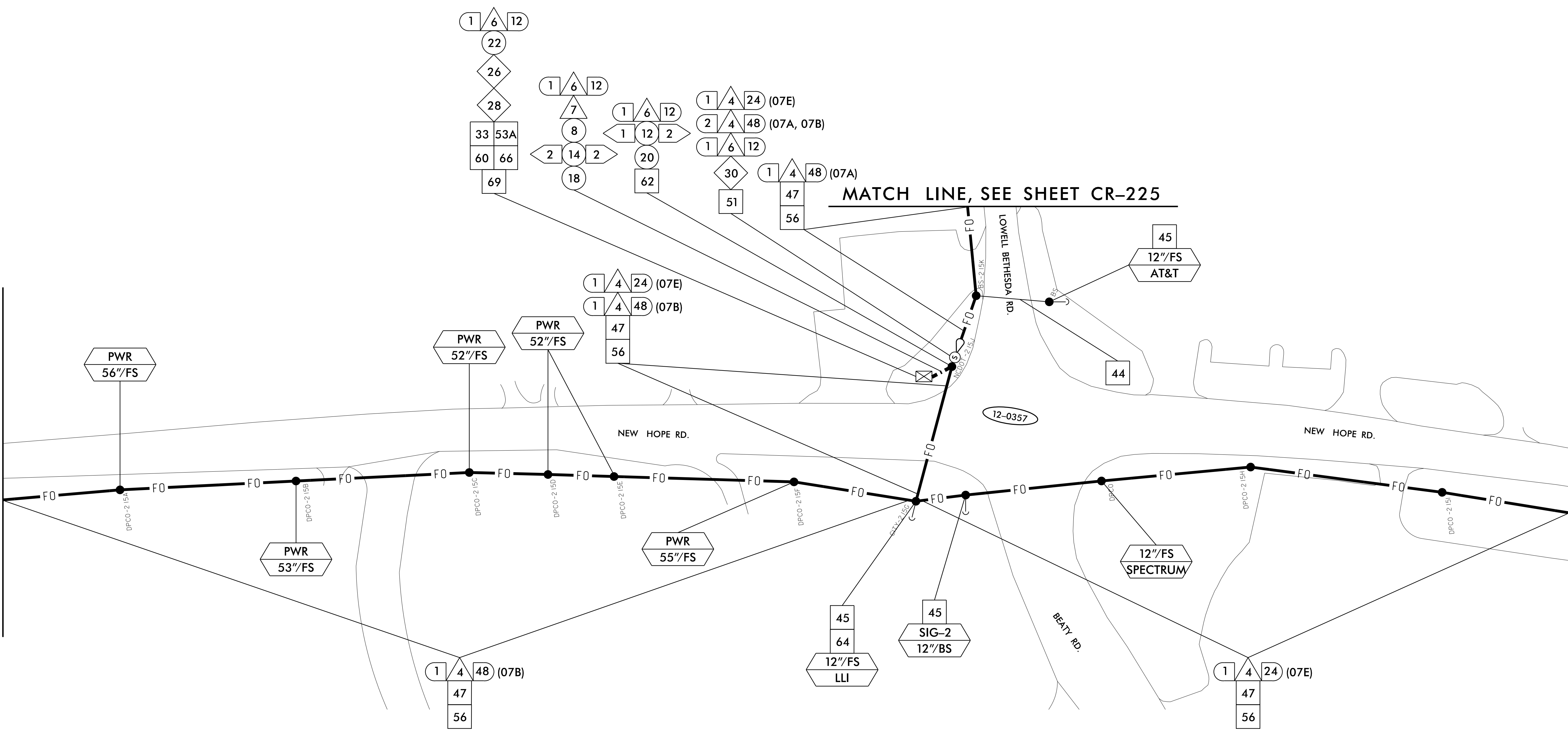
Kimley-Horn
 NC License #F-0102
 421 Fayetteville St., Suite 600
 Raleigh, NC 27601
 Tel: (919) 677-2000
 Fax: (919) 677-2050

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 3/18/2022
 DATE

3/17/2022
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MATCH LINE, SEE SHEET CR-214

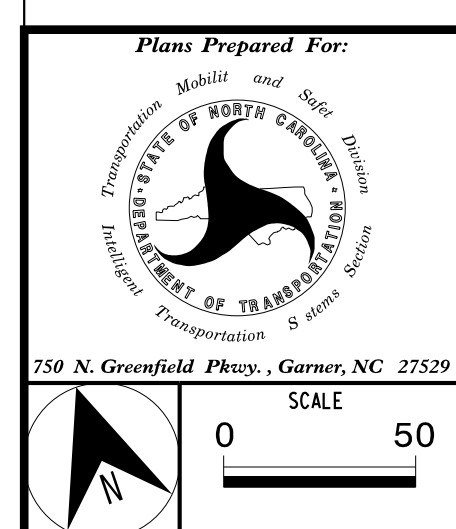
MATCH LINE, SEE SHEET CR-216



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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:

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CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

DocuSigned by: Inger Van OsdeLL 3/18/2022

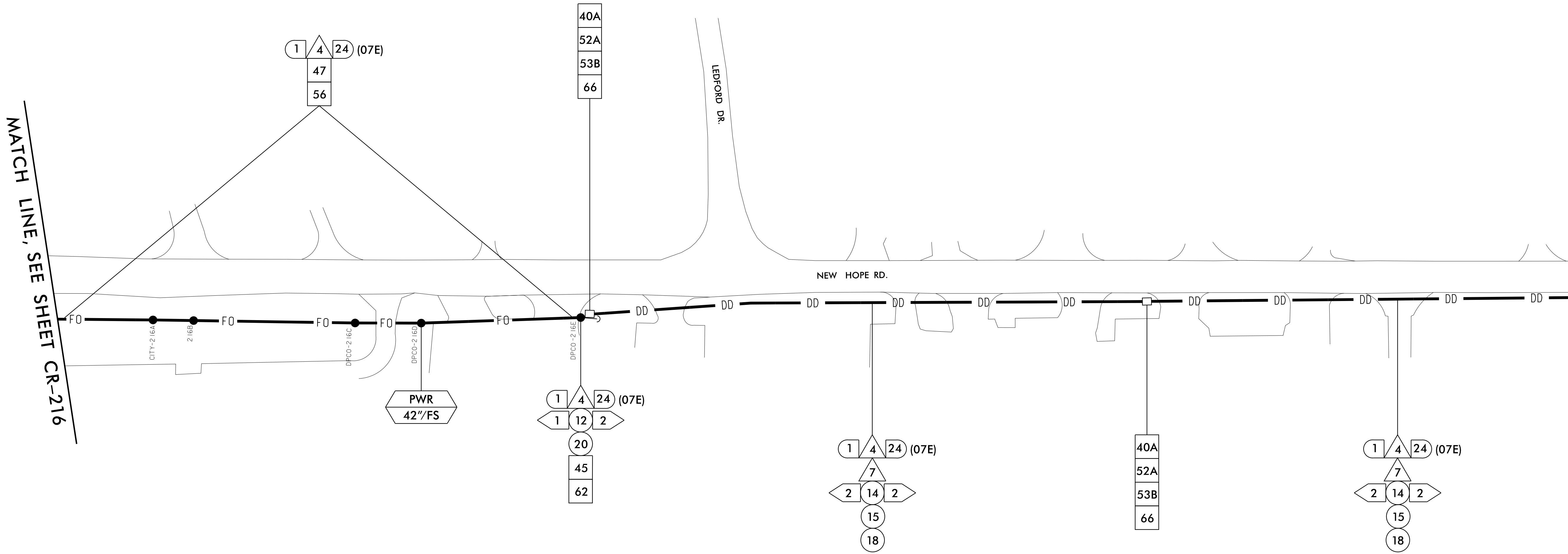
CADD File name: _____

Kimley-Horn

NC License #F-0102
421 Fayetteville St., Suite 600
Raleigh, NC 27601
Tel: (919) 677-2000
Fax: (919) 677-2050

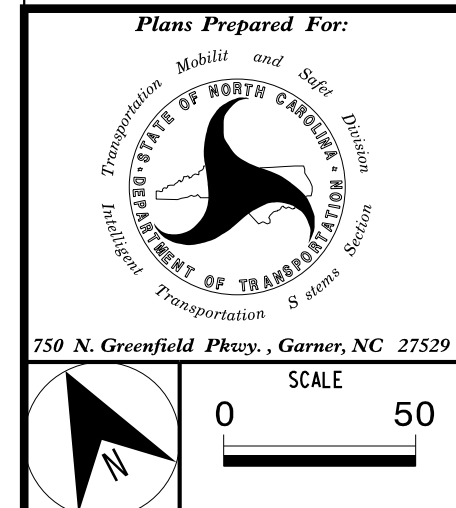
Professional Engineer Seal for Inger Van OsdeLL, License #F-0102, Raleigh, NC 27601.

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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 | 44 | INSTALL AERIAL GUY ASSEMBLY | 53A | STORE 20 FEET OF COMMUNICATIONS CABLE | 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 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 | 45 | INSTALL STANDARD GUY ASSEMBLY | 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT | 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36 | INSTALL CCTV CAMERA ASSEMBLY | 46 | INSTALL SIDEWALK GUY ASSEMBLY | 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66 | INSTALL MOLDBALE DUCT SEAL |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT | 26 | INSTALL NEW ETHERNET EDGE SWITCH | 37 | INSTALL CCTV CAMERA WOOD POLE | 47 | INSTALL MESSENGER CABLE | 55 | LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67 | SLACK SPAN |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT | 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER | 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE | 68 | INSTALL CABINET BASE ADAPTER |
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| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT | 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A | INSTALL OVERSIZED JUNCTION BOX | 49 | BACK PULL EXISTING COMMUNICATIONS CABLE | 58 | INSTALL NEW ELECTRICAL SERVICE | 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 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") | 50 | INSTALL CELL MODEM AND ANTENNA | 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71 | REMOVE EXISTING CCTV CAMERA CABINET |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER | 31 | MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41 | REMOVE EXISTING JUNCTION BOX | 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72 | REMOVE CABINET FOUNDATION |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42 | INSTALL WOOD POLE | 52A | INSTALL DELINEATOR MARKER | 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73 | MODIFY EXISTING CABINET FOUNDATION |
| 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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43 | REMOVE EXISTING WOOD POLE | 52B | INSTALL JUNCTION BOX MARKER | 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74 | REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | | | | 63 | BOND RISER TO POLE GROUND | 75 | INSTALL WIRELESS ETHERNET SYSTEM | | |

NOTES:
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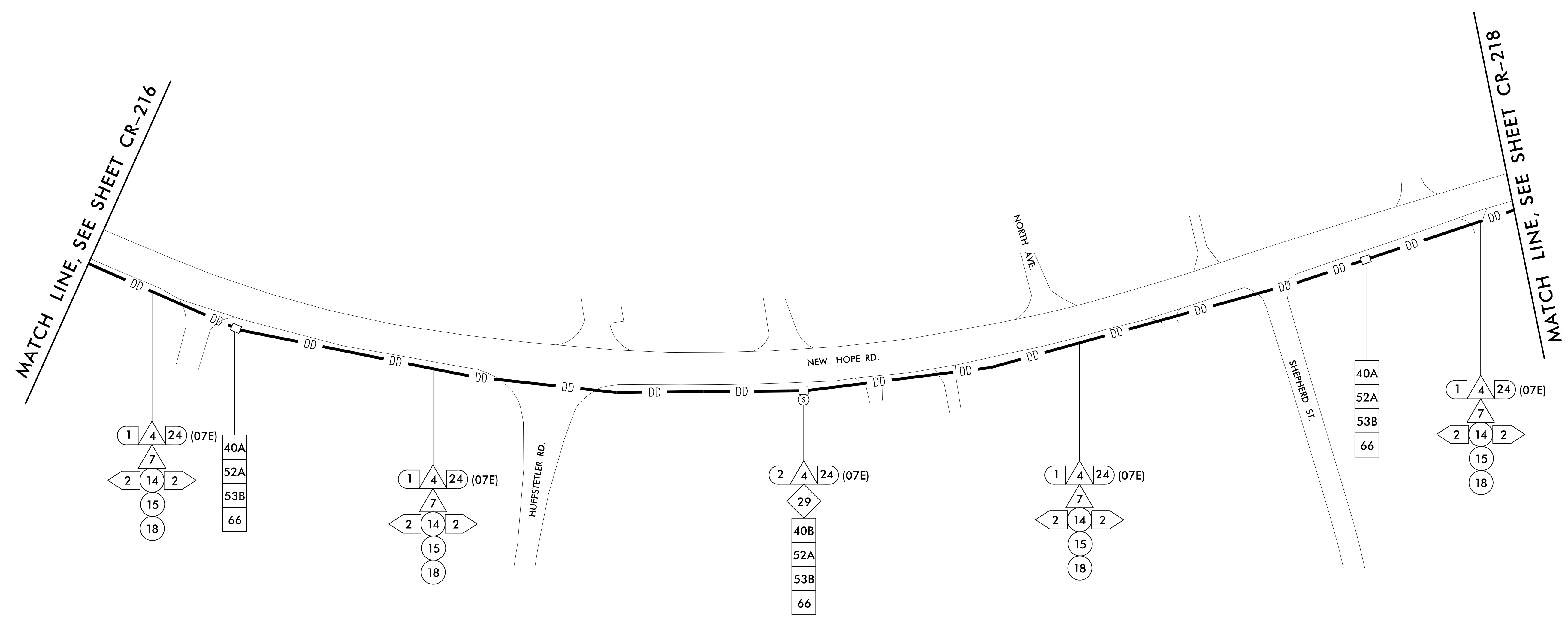


CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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 NC License #F-0102
 421 Fayetteville St., Suite 600
 Raleigh, NC 27601
 Tel: (919) 677-2000
 Fax: (919) 677-2050

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:

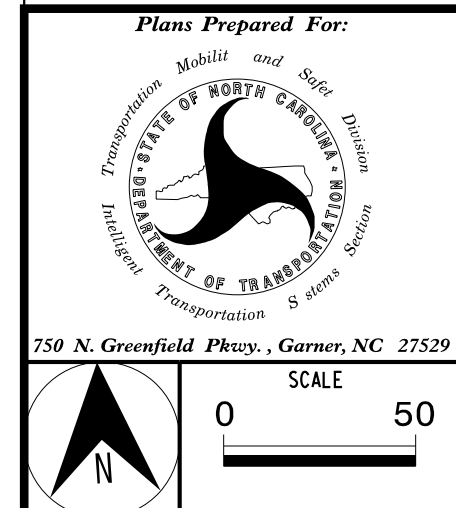
3/17/2022 KARAL.TPTD.LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH216.CR.dgn



3/17/2022 K:\ARL\TPTD\ITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT217_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER/SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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NOTES:
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Plans Prepared For:
 CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

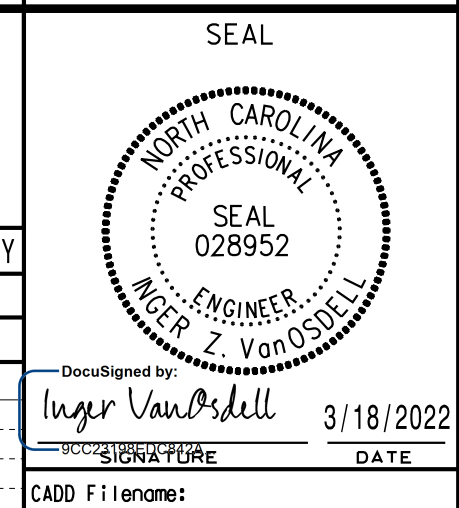
PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

DocuSigned by:
 Inger Van Osdel 3/18/2022

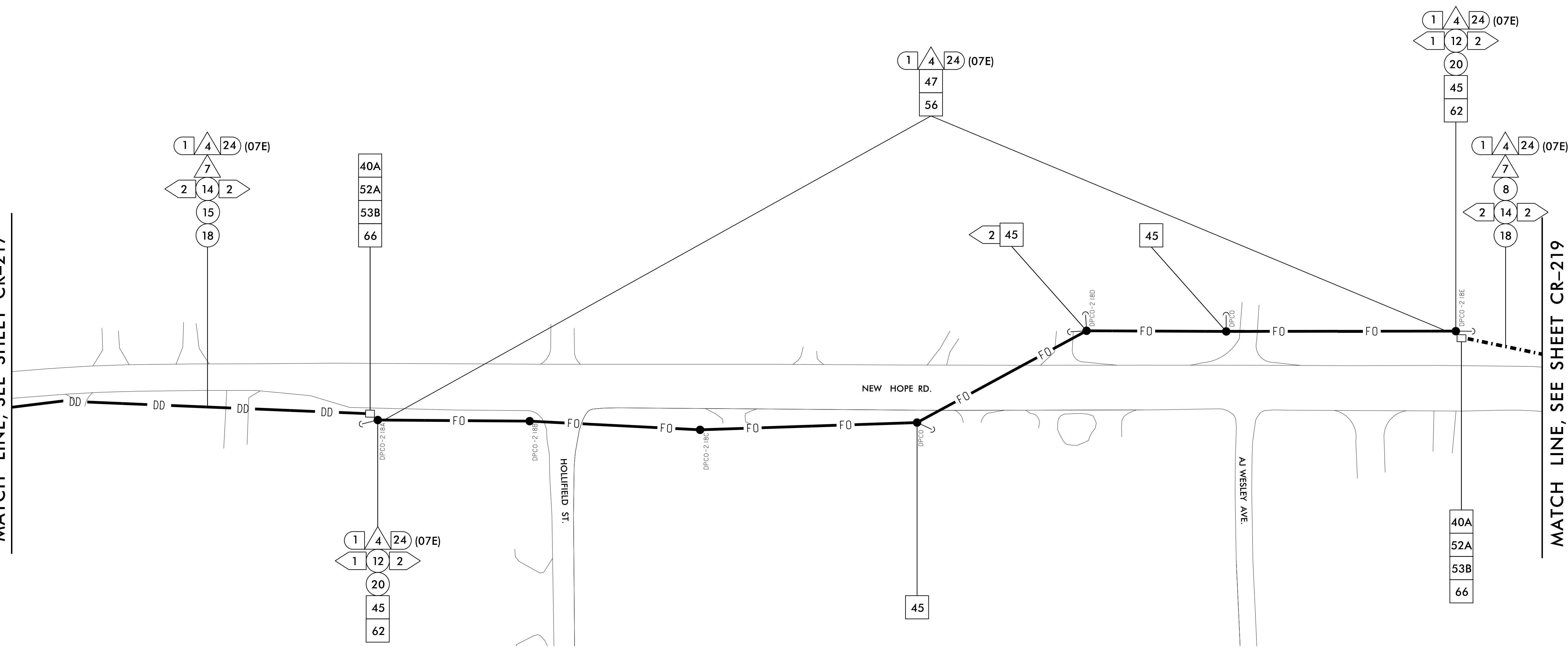
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 Tel: (919) 677-2000
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MATCH LINE, SEE SHEET CR-217

MATCH LINE, SEE SHEET CR-219



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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
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10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE 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:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

Scale: 0 to 50 feet

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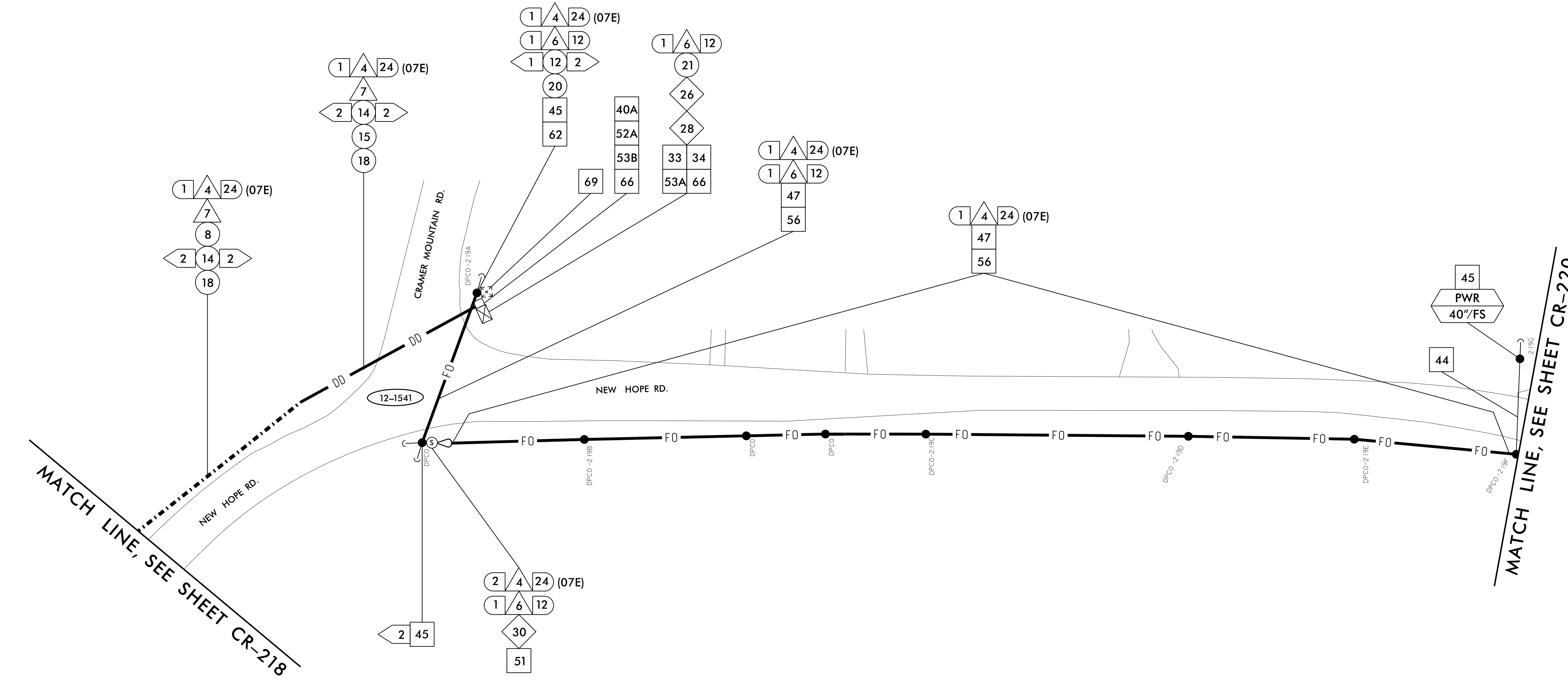
SEAL

Inger Van Osdel
Professional Engineer
North Carolina License # 028952

DocuSigned by:
Inger Van Osdel
3/18/2022

CADD File name:

3/17/2022 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH218_CR.dgn

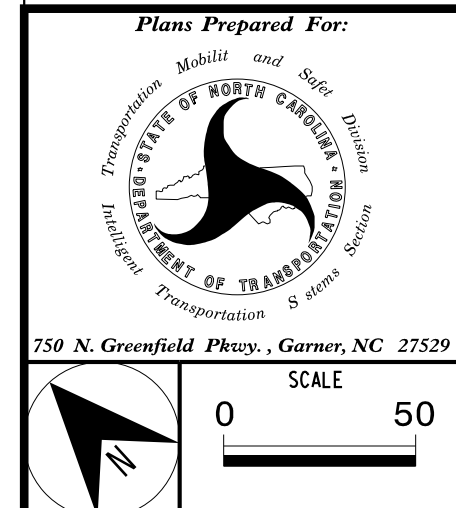


Legend table with 75 numbered items. Items 1-11 describe cable and conduit installation. Items 12-22 describe riser and conduit installation. Items 23-33 describe cabinet and splice enclosure installation. Items 34-43 describe camera and junction box installation. Items 44-52 describe guy assemblies and equipment installation. Items 53A-53B describe cable storage. Items 54-63 describe messenger and bonding cable installation. Items 64-75 describe miscellaneous components like heat shrink, duct seal, slack span, and wireless system components.

NOTES:
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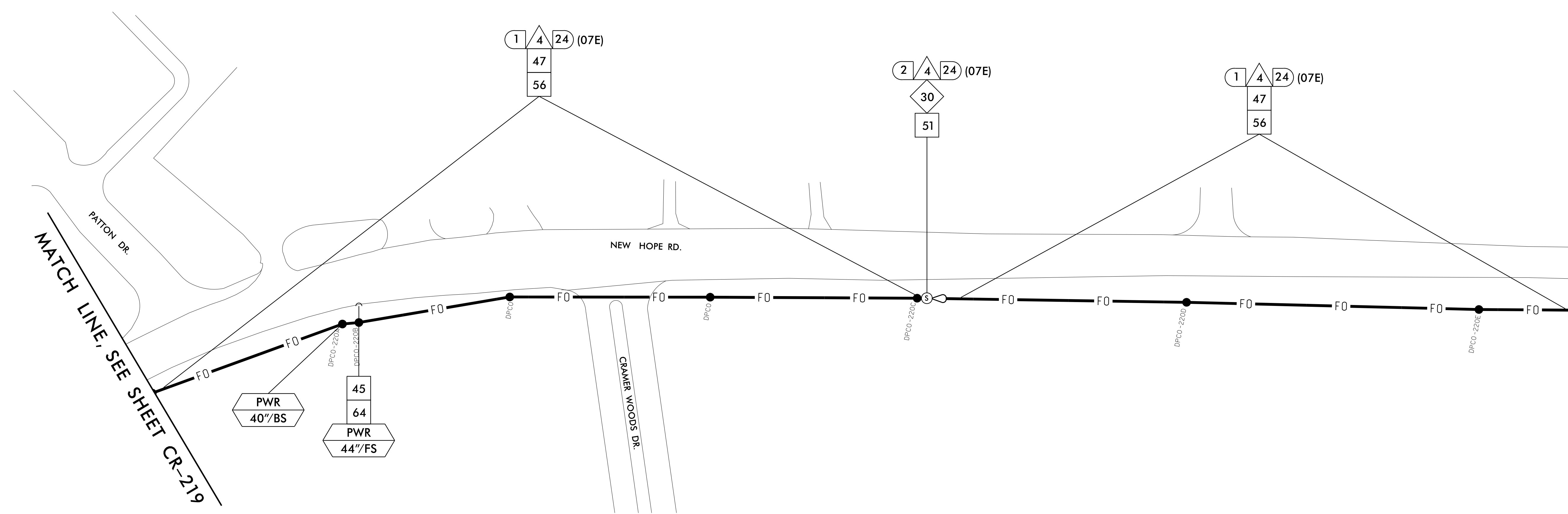
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Project information table for CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN. Includes Division 12, Gaston County, Plan Date (December 2021), and Reviewers (S. Butler, K. Smith, I. Van Osdel).

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
I. VAN OSDEL
3/18/2022
CADD File name:



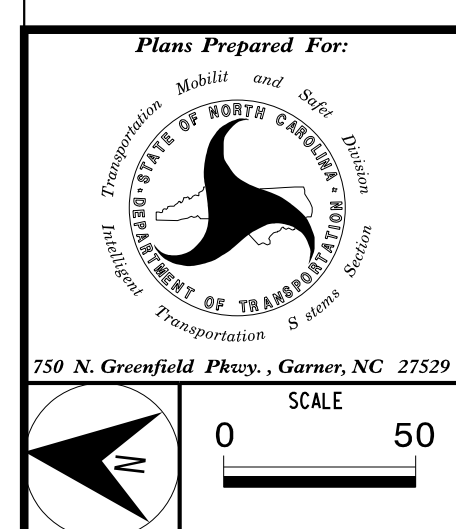
MATCH LINE, SEE SHEET CR-219

MATCH LINE, SEE SHEET CR-221

- | | | | | | | |
|--|--|--|---|--|--|---|
| 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 | 44. INSTALL AERIAL GUY ASSEMBLY | 53A. STORE 20 FEET OF COMMUNICATIONS CABLE | 64. BOND MESSENGER CABLE TO POLE GROUND |
| 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 | 45. INSTALL STANDARD GUY ASSEMBLY | 53B. STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65. INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3. EXISTING ETHERNET (OR COAX) CABLE | 14. INSTALL POLYETHYLENE CONDUIT | 25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36. INSTALL CCTV CAMERA ASSEMBLY | 46. INSTALL SIDEWALK GUY ASSEMBLY | 54. LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66. INSTALL MOLDABLE DUCT SEAL |
| 4. INSTALL SMFO CABLE | 15. DIRECTIONAL DRILL CONDUIT | 26. INSTALL NEW ETHERNET EDGE SWITCH | 37. INSTALL CCTV CAMERA WOOD POLE | 47. INSTALL MESSENGER CABLE | 55. LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67. SLACK SPAN |
| 5. EXISTING SMFO CABLE | 16. BORE AND JACK CONDUIT | 27. INSTALL NEW FIBER OPTIC TRANSCEIVER | 38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A. REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56. LASH CABLE(S) TO NEW MESSENGER CABLE | 68. INSTALL CABINET BASE ADAPTER |
| 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 | 48B. REMOVE EXISTING COMMUNICATIONS CABLE | 57. MODIFY EXISTING ELECTRICAL SERVICE | 69. REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7. INSTALL TRACER WIRE | 18. INSTALL CABLE(S) IN NEW CONDUIT | 29. INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A. INSTALL OVERSIZED JUNCTION BOX | 49. BACK PULL EXISTING COMMUNICATIONS CABLE | 58. INSTALL NEW ELECTRICAL SERVICE | 70. REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 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") | 50. INSTALL CELL MODEM AND ANTENNA | 59. INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71. REMOVE EXISTING CCTV CAMERA CABINET |
| 9. INSTALL PVC CONDUIT | 20. INSTALL CABLE(S) IN NEW RISER | 31. MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41. REMOVE EXISTING JUNCTION BOX | 51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60. BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72. REMOVE CABINET FOUNDATION |
| 10. INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21. INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32. INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42. INSTALL WOOD POLE | 52A. INSTALL DELINEATOR MARKER | 61. DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73. MODIFY EXISTING CABINET FOUNDATION |
| 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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43. REMOVE EXISTING WOOD POLE | 52B. INSTALL JUNCTION BOX MARKER | 62. BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74. REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | 63. BOND RISER TO POLE GROUND | 75. INSTALL WIRELESS ETHERNET SYSTEM |

NOTES:

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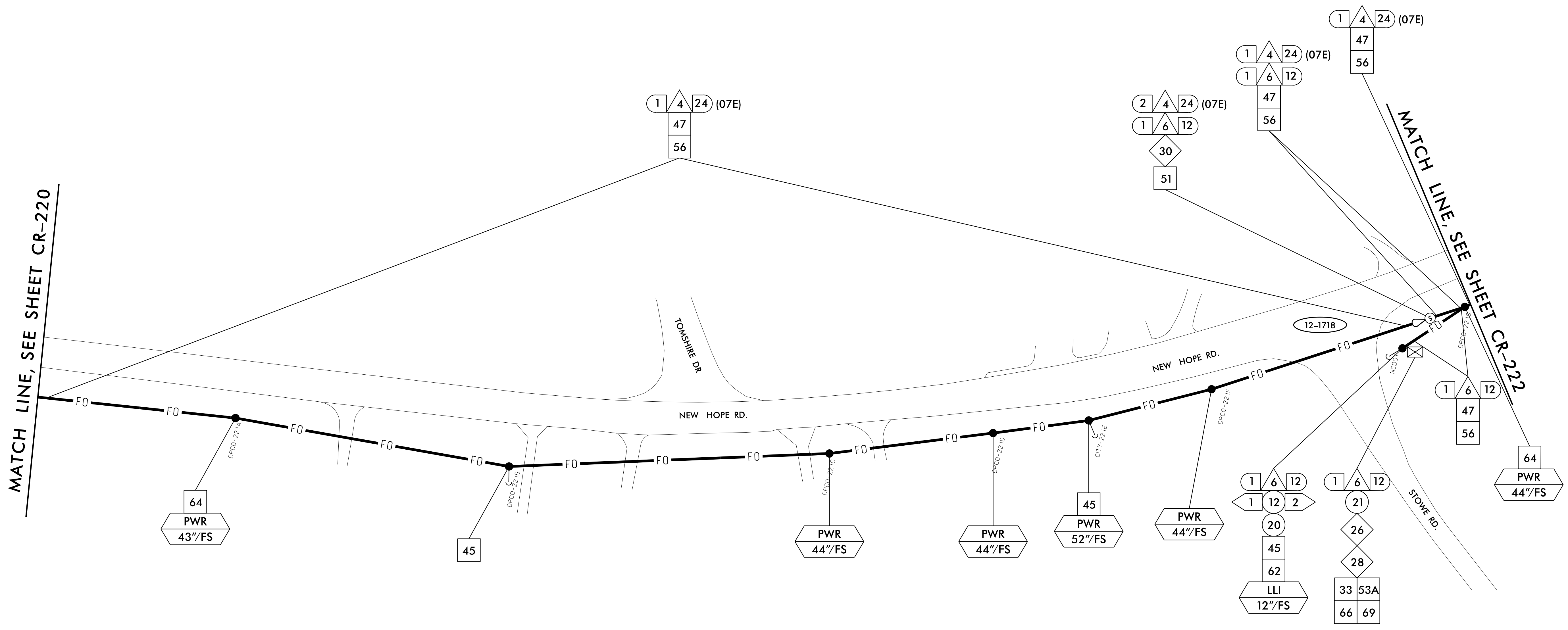


CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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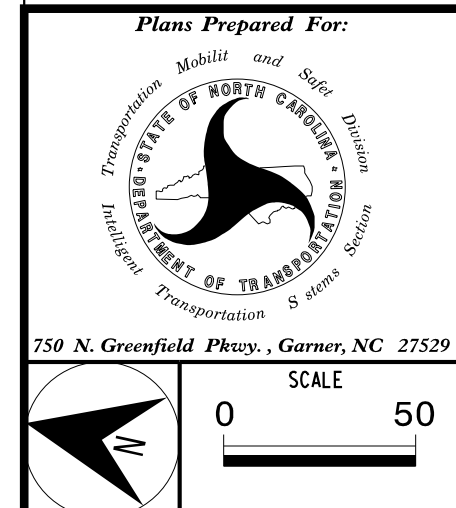
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD Filename:

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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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
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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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:
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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

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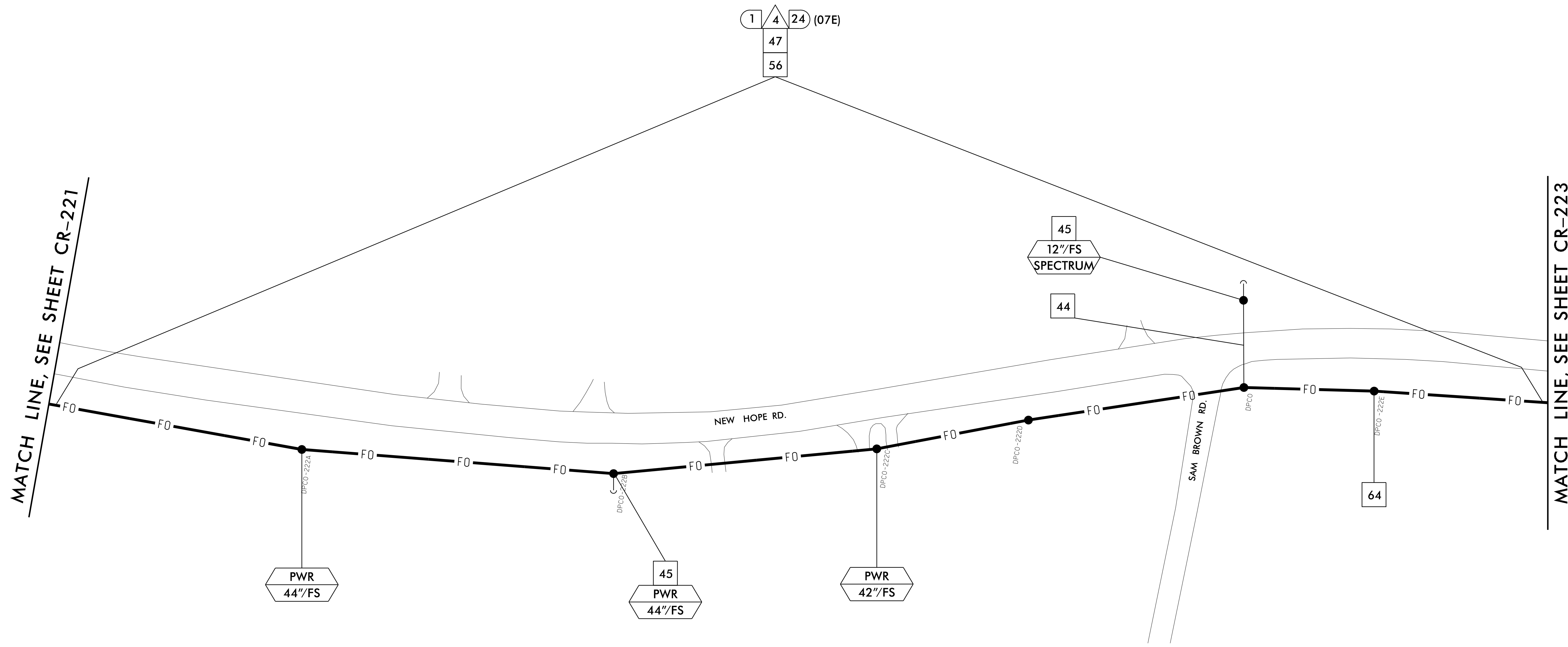
SEAL

North Carolina Professional Engineer
 SEAL 028952
 I. VAN OSDELL

DocuSigned by:
 Inger Van OsdeLL
 3/18/2022

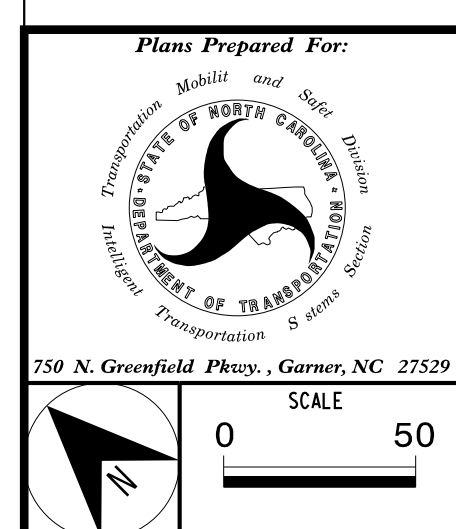
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|--|--|--|---|--|--|---|
| 1. INSTALL COAX CABLE | 12. INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23. INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) | 34. INSTALL CABINET FOUNDATION | 44. INSTALL AERIAL GUY ASSEMBLY | 53A. STORE 20 FEET OF COMMUNICATIONS CABLE | 64. BOND MESSENGER CABLE TO POLE GROUND |
| 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 | 45. INSTALL STANDARD GUY ASSEMBLY | 53B. STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65. INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3. EXISTING ETHERNET (OR COAX) CABLE | 14. INSTALL POLYETHYLENE CONDUIT | 25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36. INSTALL CCTV CAMERA ASSEMBLY | 46. INSTALL SIDEWALK GUY ASSEMBLY | 54. LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66. INSTALL MOLDBABLE DUCT SEAL |
| 4. INSTALL SMFO CABLE | 15. DIRECTIONAL DRILL CONDUIT | 26. INSTALL NEW ETHERNET EDGE SWITCH | 37. INSTALL CCTV CAMERA WOOD POLE | 47. INSTALL MESSENGER CABLE | 55. LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE | 67. SLACK SPAN |
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| 7. INSTALL TRACER WIRE | 18. INSTALL CABLE(S) IN NEW CONDUIT | 29. INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A. INSTALL OVERSIZED JUNCTION BOX | 49. BACK PULL EXISTING COMMUNICATIONS CABLE | 58. INSTALL NEW ELECTRICAL SERVICE | 70. REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 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") | 50. INSTALL CELL MODEM AND ANTENNA | 59. INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71. REMOVE EXISTING CCTV CAMERA CABINET |
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| 10. INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21. INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32. INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42. INSTALL WOOD POLE | 52A. INSTALL DELINEATOR MARKER | 61. DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73. MODIFY EXISTING CABINET FOUNDATION |
| 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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43. REMOVE EXISTING WOOD POLE | 52B. INSTALL JUNCTION BOX MARKER | 62. BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74. REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | 63. BOND RISER TO POLE GROUND | 75. INSTALL WIRELESS ETHERNET SYSTEM |

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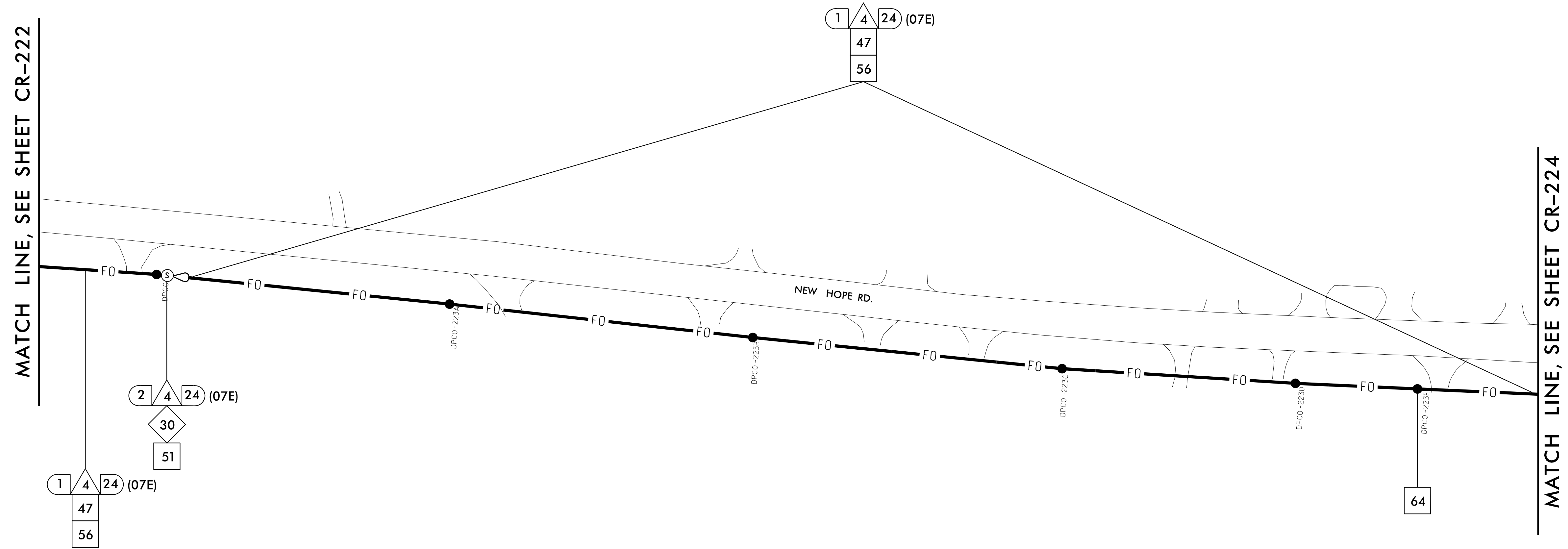
CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12		GASTON COUNTY	
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH	PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS		INIT.	DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:

3/17/2022 KARAL.TPTD.LTS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SHI222_CR.dgn



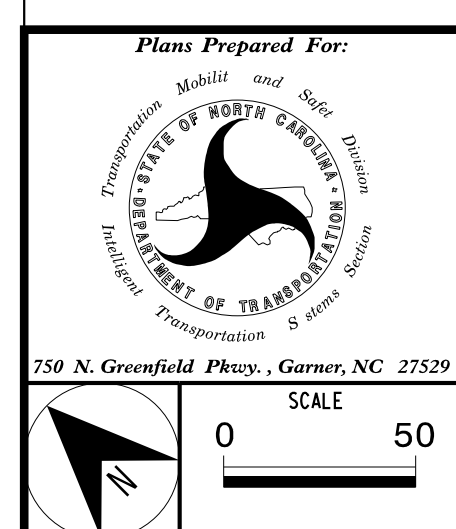
MATCH LINE, SEE SHEET CR-222

MATCH LINE, SEE SHEET CR-224

3/17/2022 K:\ARL_TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SH223_CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
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7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
									63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM	

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE 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:
 CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

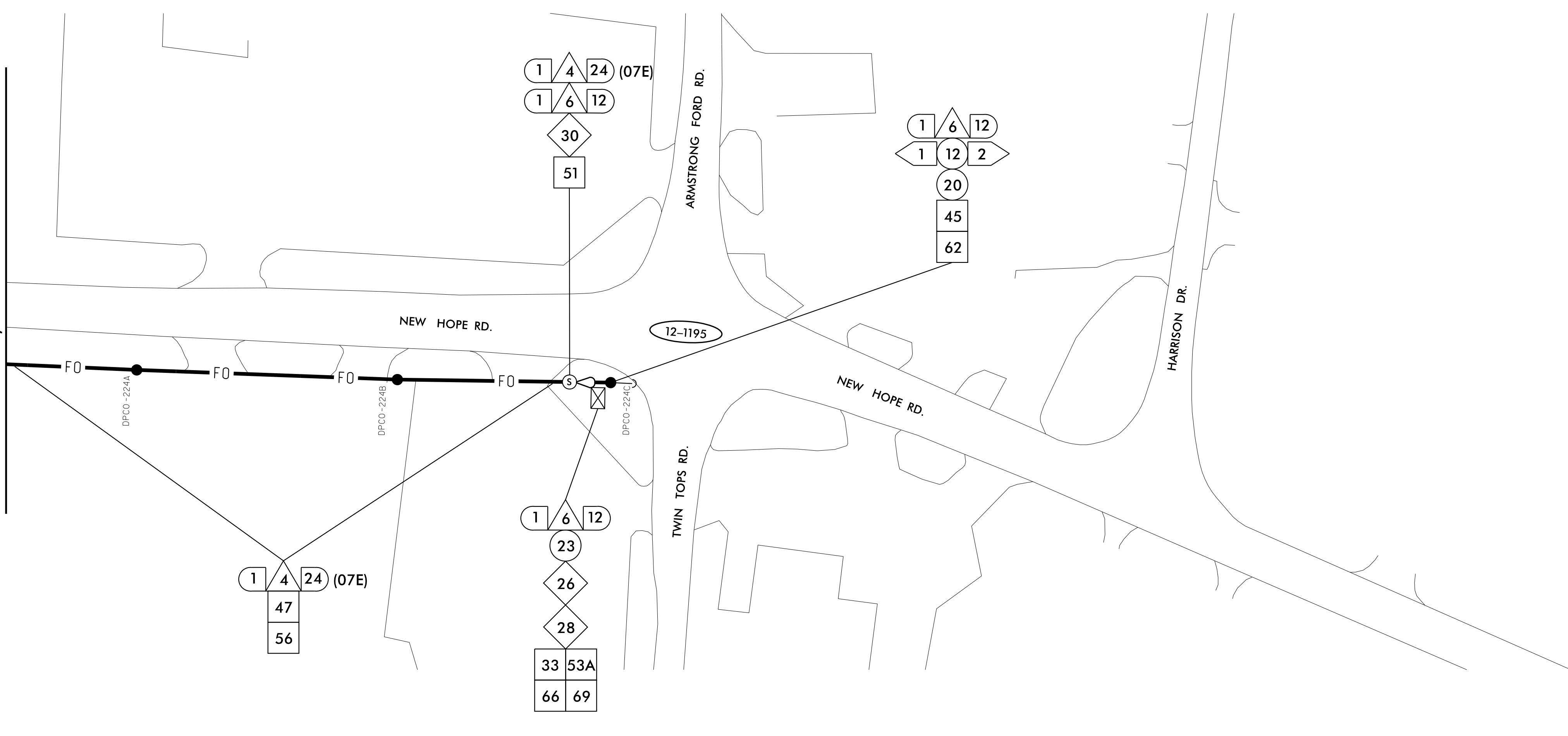
PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 No. 27529
 I. Van Osdel
 3/18/2022
 CADD Filename: _____

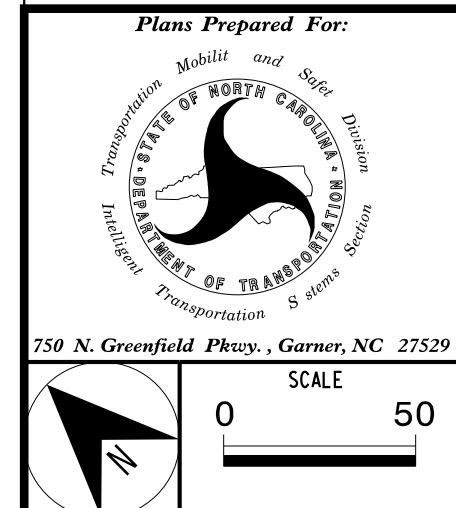
MATCH LINE, SEE SHEET CR-223



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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:
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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

SEAL

Kimley»Horn
 NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 License No. 27529

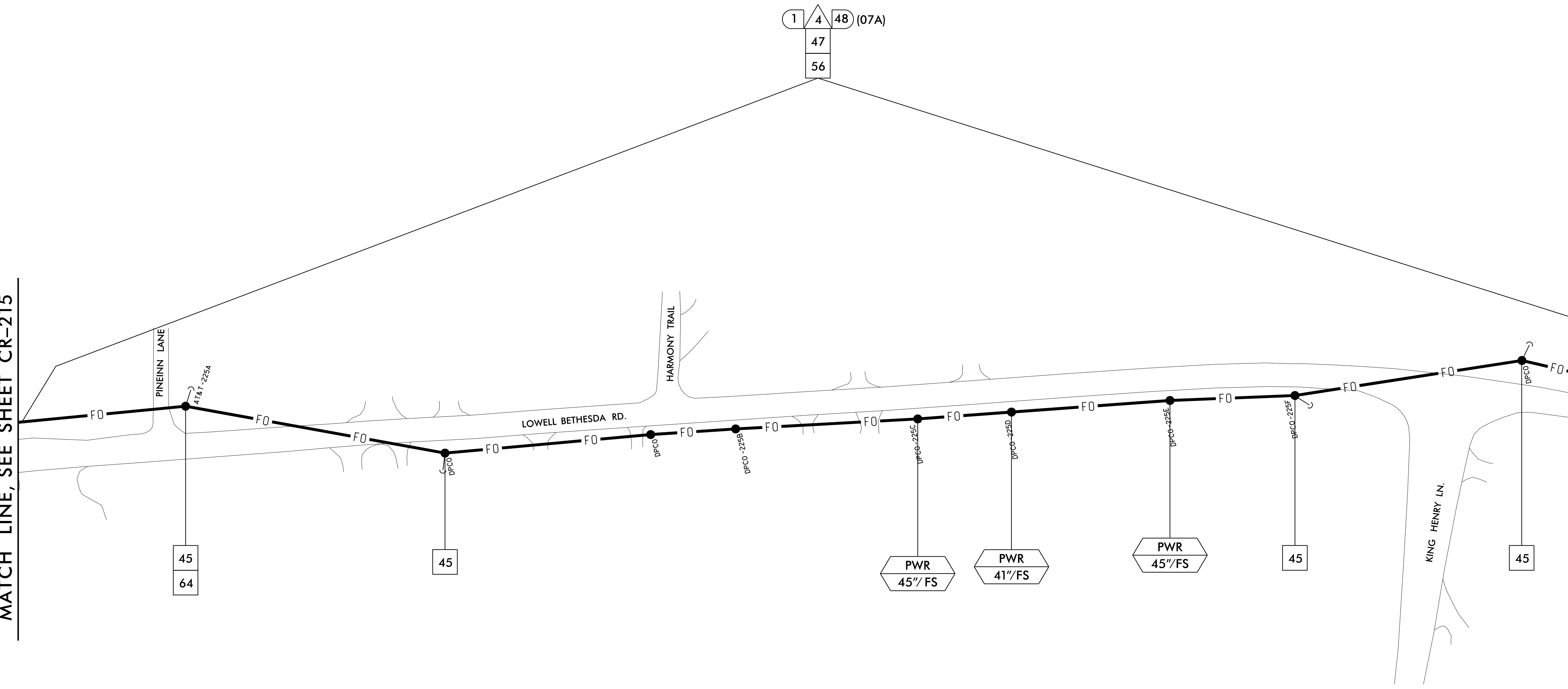
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 I. Van Osdel
 3/18/2022

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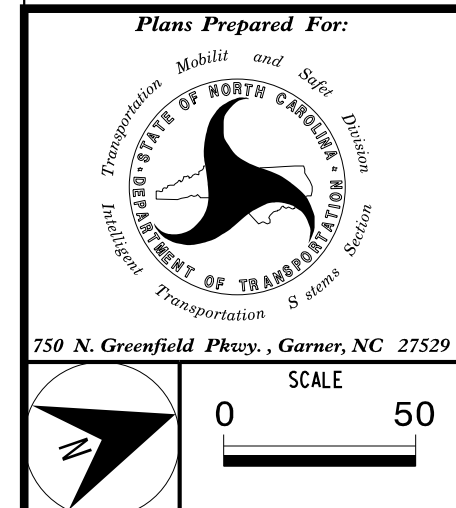
MATCH LINE, SEE SHEET CR-226



3/17/2022 KARAL.TPTD.LTS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SHI225-CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

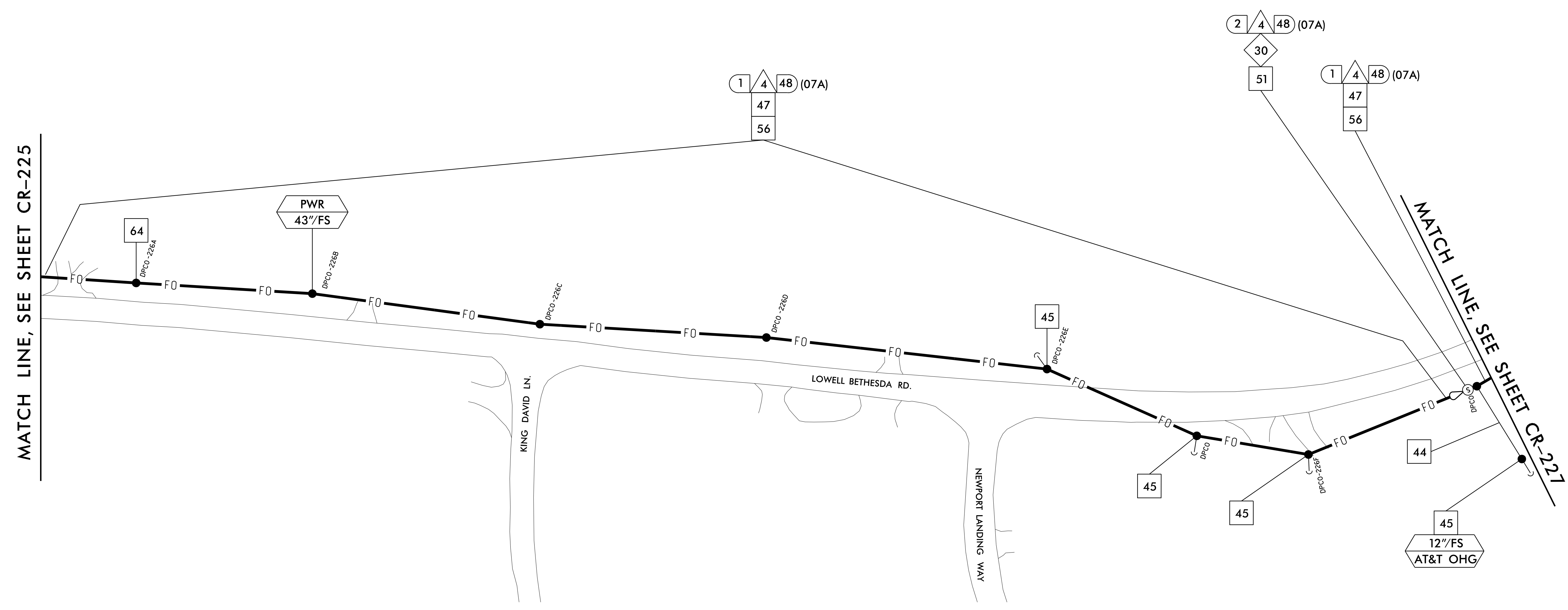
NOTES:
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CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:

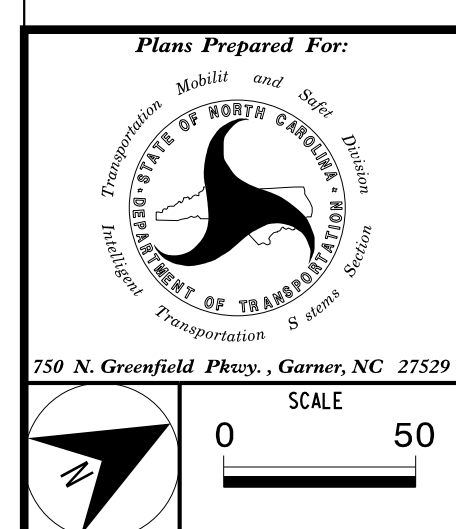


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1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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NOTES:

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Plans Prepared For:

CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

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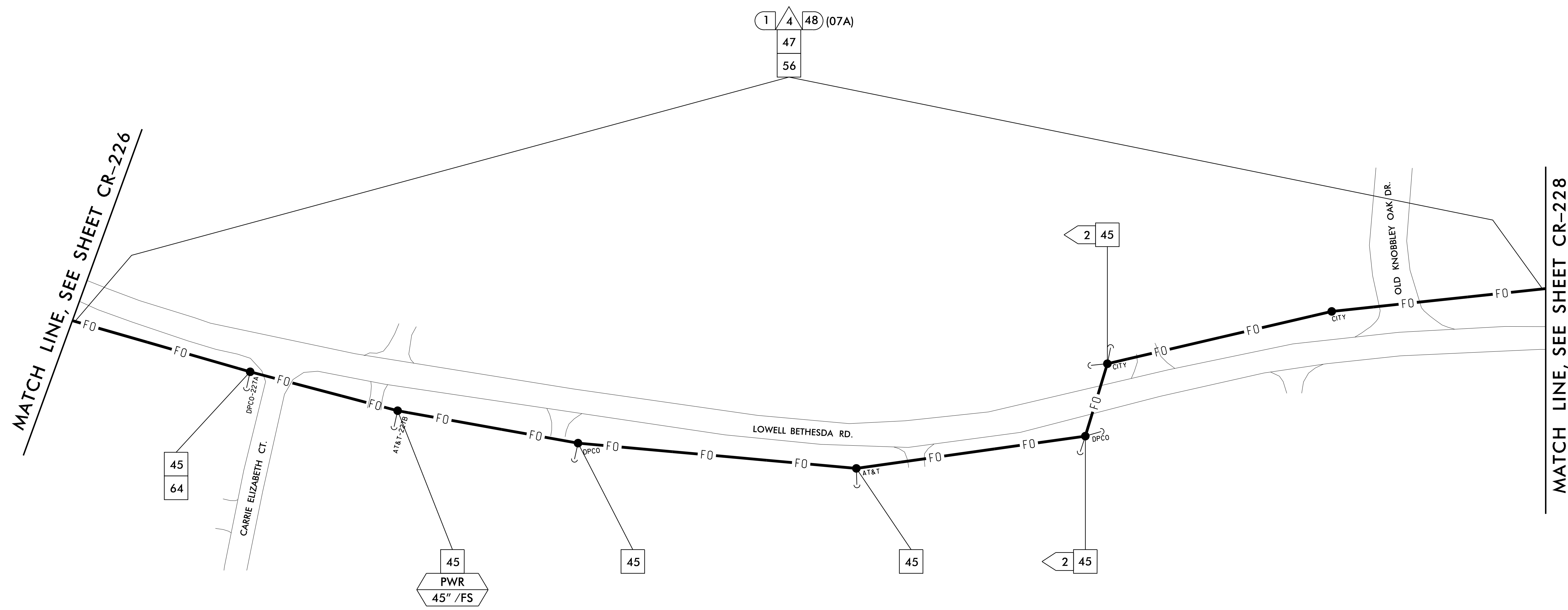
SEAL

Kimley-Horn

Professional Engineer
Seal 028952
I. Van Osdel

DocuSigned by:
I. Van Osdel
3/18/2022

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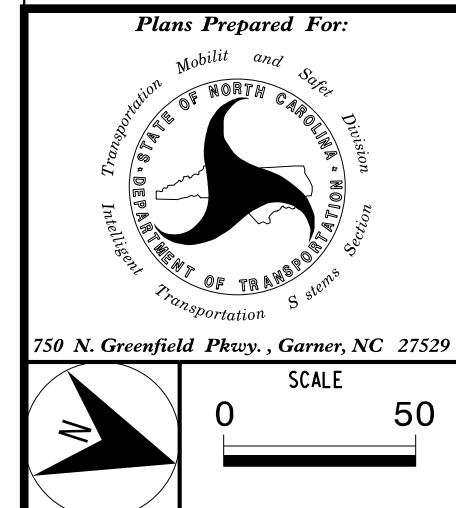


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MATCH LINE, SEE SHEET CR-228

- | | | | | | | |
|--|--|--|---|--|--|---|
| 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 | 44. INSTALL AERIAL GUY ASSEMBLY | 53A. STORE 20 FEET OF COMMUNICATIONS CABLE | 64. BOND MESSENGER CABLE TO POLE GROUND |
| 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 | 45. INSTALL STANDARD GUY ASSEMBLY | 53B. STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65. INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3. EXISTING ETHERNET (OR COAX) CABLE | 14. INSTALL POLYETHYLENE CONDUIT | 25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36. INSTALL CCTV CAMERA ASSEMBLY | 46. INSTALL SIDEWALK GUY ASSEMBLY | 54. LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66. INSTALL MOLDABLE DUCT SEAL |
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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") | 50. INSTALL CELL MODEM AND ANTENNA | 59. INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71. REMOVE EXISTING CCTV CAMERA CABINET |
| 9. INSTALL PVC CONDUIT | 20. INSTALL CABLE(S) IN NEW RISER | 31. MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE | 41. REMOVE EXISTING JUNCTION BOX | 51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60. BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72. REMOVE CABINET FOUNDATION |
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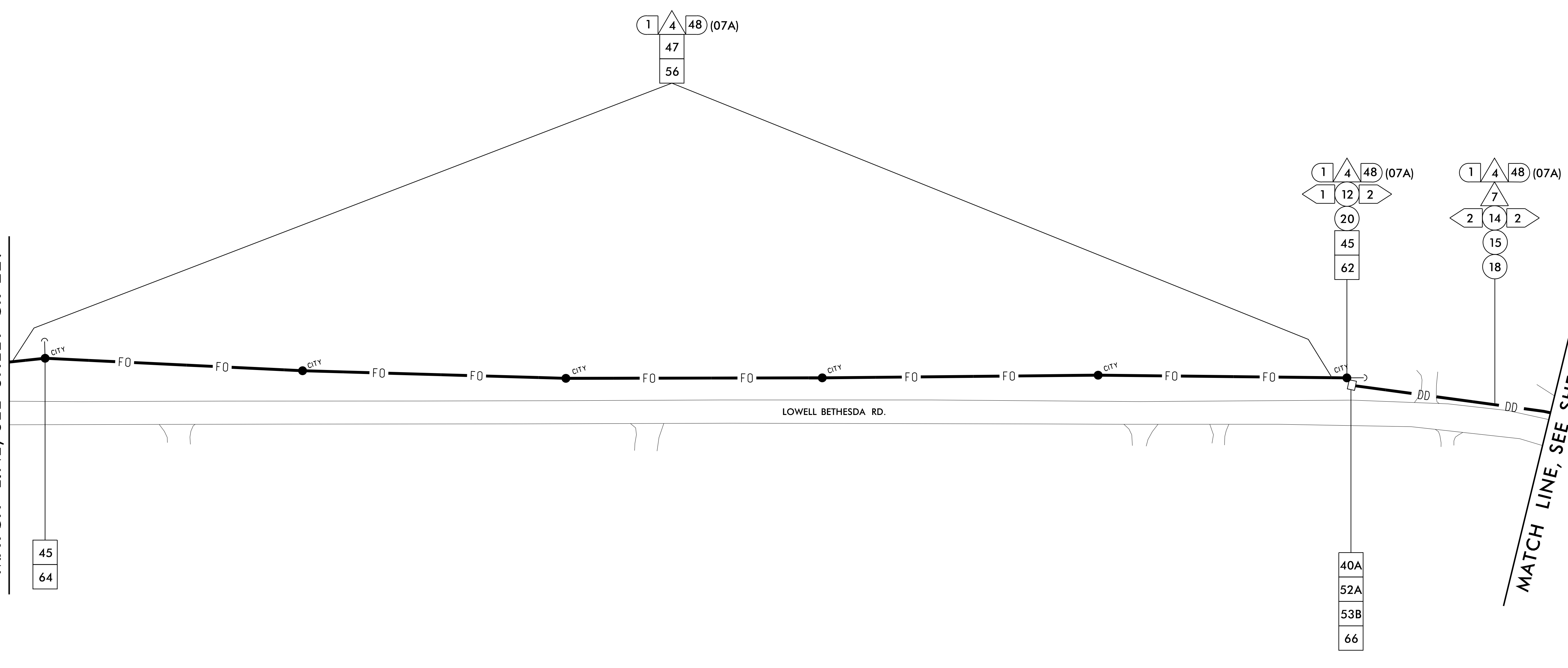
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 NC License #F-0102
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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDELL
 DATE 3/18/2022
 CADD File name:

3/17/2022
 K:\ARL\TPTD_LITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT227_CR.dgn

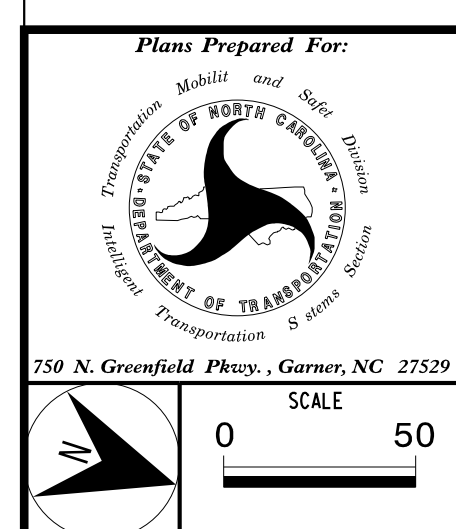
MATCH LINE, SEE SHEET CR-227

MATCH LINE, SEE SHEET CR-229



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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDBABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

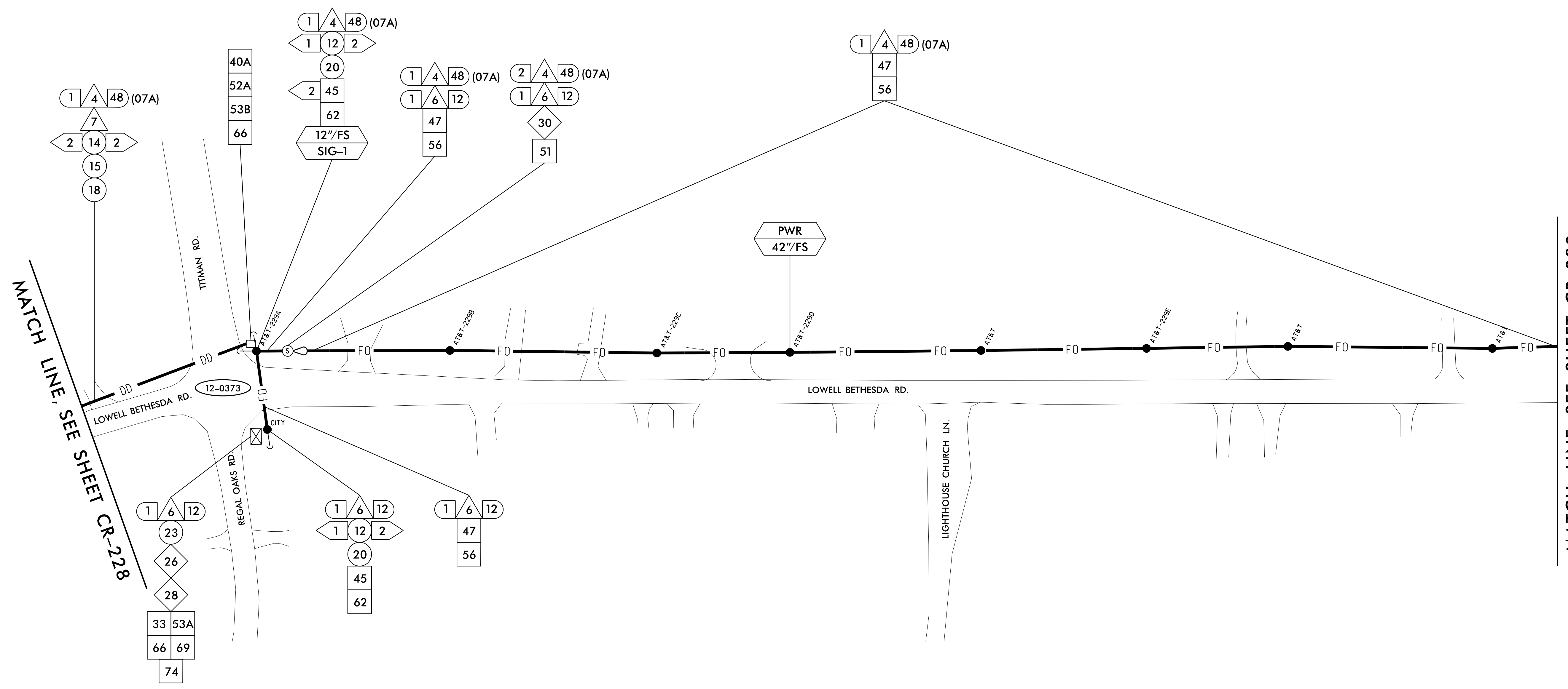


CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 3/18/2022
 DATE

3/17/2022
 K:\ARL\TPTD\ITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT228_CR.dgn



MATCH LINE, SEE SHEET CR-228

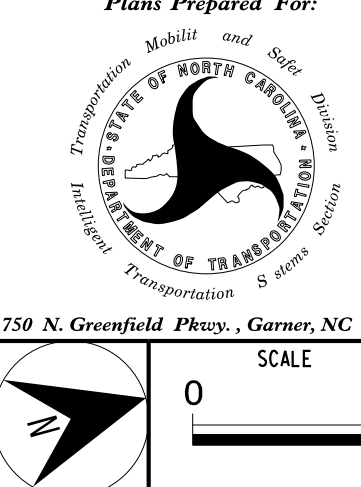
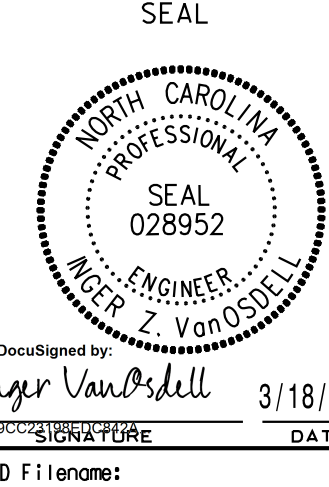
MATCH LINE, SEE SHEET CR-230

- | | | | | | | |
|--|--|--|---|--|--|---|
| 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 | 44. INSTALL AERIAL GUY ASSEMBLY | 53A. STORE 20 FEET OF COMMUNICATIONS CABLE | 64. BOND MESSENGER CABLE TO POLE GROUND |
| 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 | 45. INSTALL STANDARD GUY ASSEMBLY | 53B. STORE 50 FEET OF EACH COMMUNICATIONS CABLE | 65. INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 3. EXISTING ETHERNET (OR COAX) CABLE | 14. INSTALL POLYETHYLENE CONDUIT | 25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET | 36. INSTALL CCTV CAMERA ASSEMBLY | 46. INSTALL SIDEWALK GUY ASSEMBLY | 54. LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE | 66. INSTALL MOLDBLE DUCT SEAL |
| 4. INSTALL SMFO CABLE | 15. DIRECTIONAL DRILL CONDUIT | 26. INSTALL NEW ETHERNET EDGE SWITCH | 37. INSTALL CCTV CAMERA WOOD POLE | 47. INSTALL MESSENGER CABLE | 55. LASH CABLE(S) TO EXISTING MESSENGER/SIGNAL CABLE | 67. SLACK SPAN |
| 5. EXISTING SMFO CABLE | 16. BORE AND JACK CONDUIT | 27. INSTALL NEW FIBER OPTIC TRANSCEIVER | 38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION | 48A. REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE | 56. LASH CABLE(S) TO NEW MESSENGER CABLE | 68. INSTALL CABINET BASE ADAPTER |
| 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 | 48B. REMOVE EXISTING COMMUNICATIONS CABLE | 57. MODIFY EXISTING ELECTRICAL SERVICE | 69. REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 7. INSTALL TRACER WIRE | 18. INSTALL CABLE(S) IN NEW CONDUIT | 29. INSTALL UNDERGROUND SPLICE ENCLOSURE | 40A. INSTALL OVERSIZED JUNCTION BOX | 49. BACK PULL EXISTING COMMUNICATIONS CABLE | 58. INSTALL NEW ELECTRICAL SERVICE | 70. REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 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") | 50. INSTALL CELL MODEM AND ANTENNA | 59. INSTALL NEW EQUIPMENT CABINET DISCONNECT | 71. REMOVE EXISTING CCTV CAMERA CABINET |
| 9. INSTALL PVC CONDUIT | 20. INSTALL CABLE(S) IN NEW RISER | 31. MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE | 41. REMOVE EXISTING JUNCTION BOX | 51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE | 60. BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 72. REMOVE CABINET FOUNDATION |
| 10. INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21. INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32. INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER | 42. INSTALL WOOD POLE | 52A. INSTALL DELINEATOR MARKER | 61. DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS | 73. MODIFY EXISTING CABINET FOUNDATION |
| 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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER | 43. REMOVE EXISTING WOOD POLE | 52B. INSTALL JUNCTION BOX MARKER | 62. BOND RISER AND MESSENGER CABLE TO POLE GROUND | 74. REMOVE EXISTING WIRELESS SYSTEM |
| | | | | | 63. BOND RISER TO POLE GROUND | 75. INSTALL WIRELESS ETHERNET SYSTEM |

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

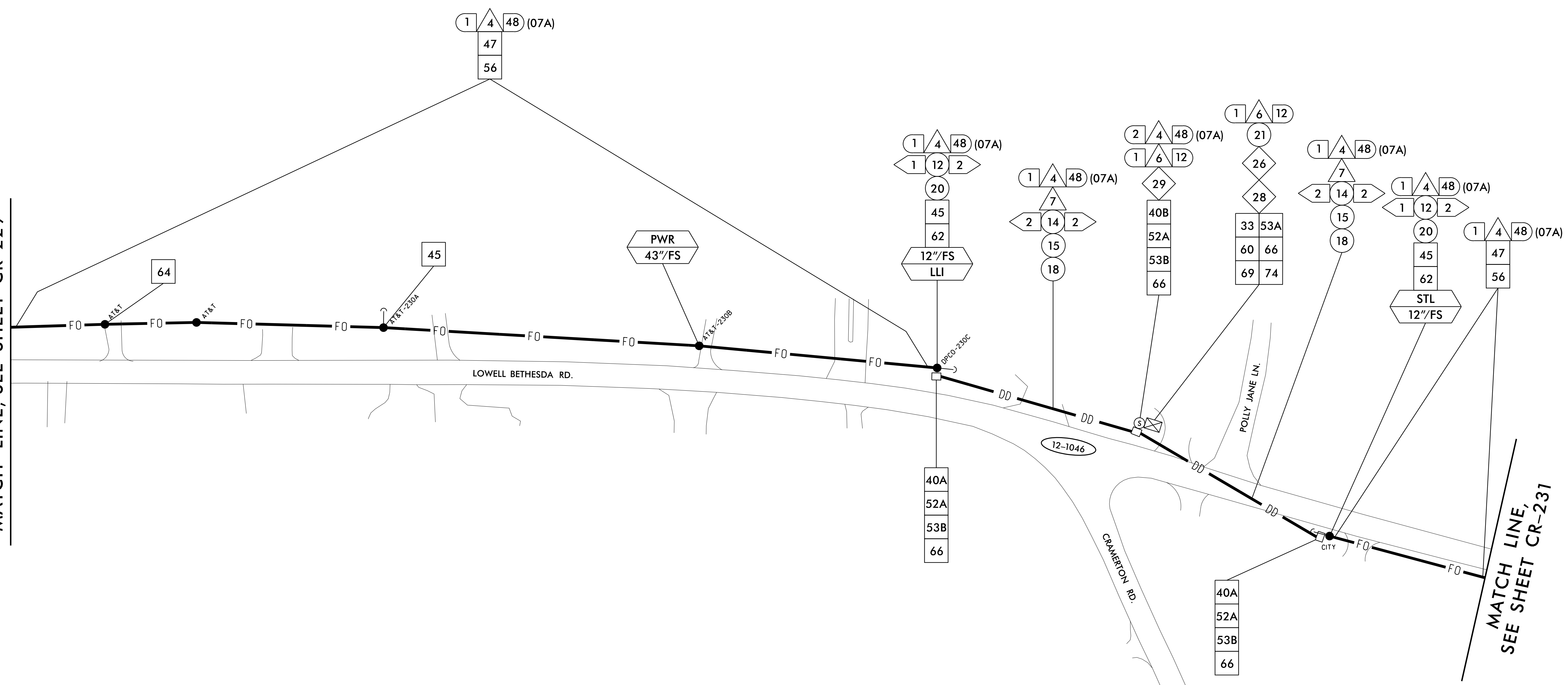
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 Plans Prepared For: CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	DIVISION 12 GASTON COUNTY		SEAL  I. VAN OSDEL ENGINEER 028952
	PLAN DATE: DECEMBER 2021 PREPARED BY: S. BUTLER	REVIEWED BY: K. SMITH REVIEWED BY: I. VAN OSDEL	
SCALE: 0 = 50	REVISIONS:	INIT. DATE:	DATE:

MATCH LINE, SEE SHEET CR-229

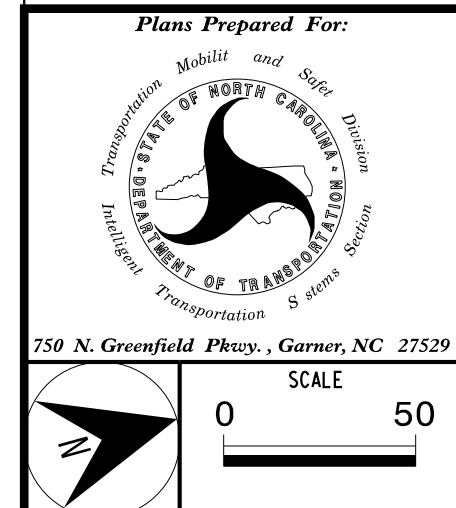
MATCH LINE, SEE SHEET CR-231



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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDBLE DUCT SEAL
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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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:

- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SCALE: 0 50

Kimley-Horn

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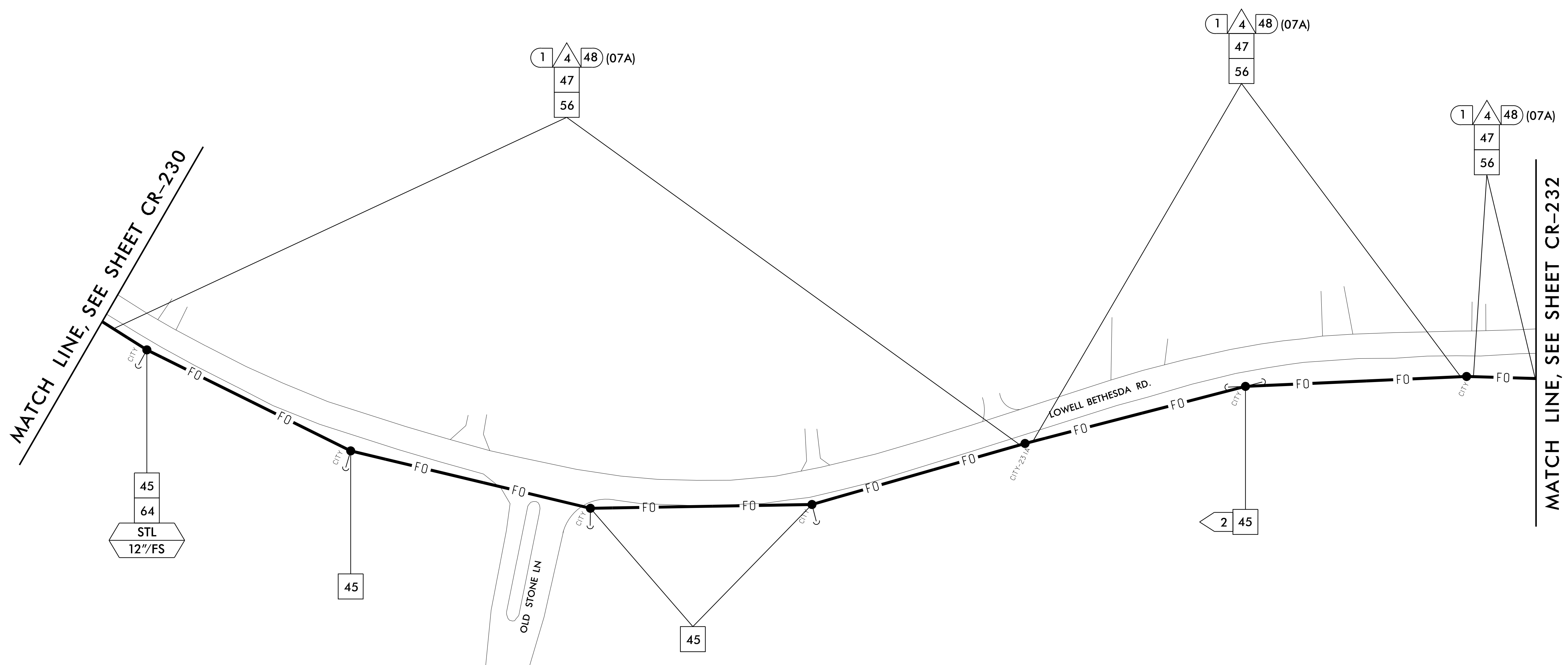
SEAL

Kimley-Horn

Professional Engineer
I. Van Osdel
3/18/2022

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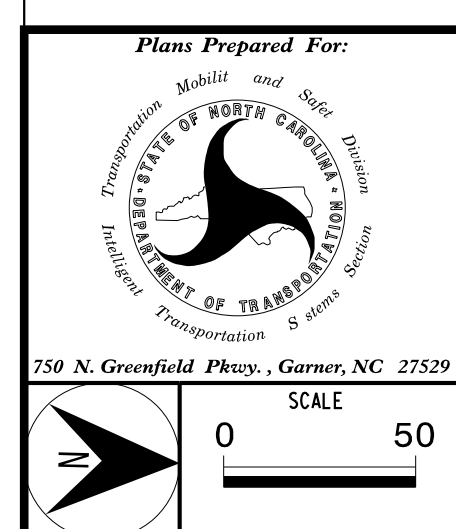
3/17/2022 K:\ARL\TPTD\ITS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing\SHI230_CR.dgn



3/17/2022 K:\ARL\TPTD\ITS\01036569 Gastonia SignalSystem\6_Tasks\Plans\Cable Routing\SH23\CR.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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
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Plans Prepared For:
 CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

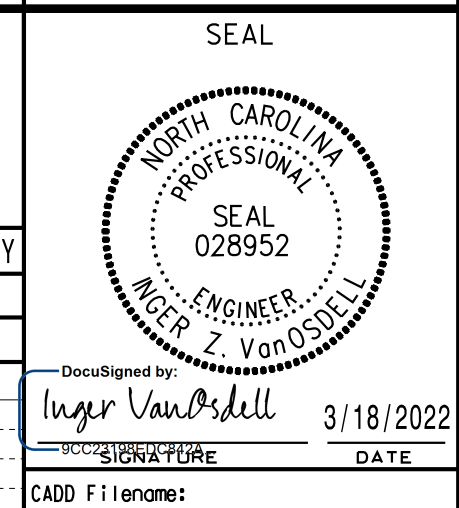
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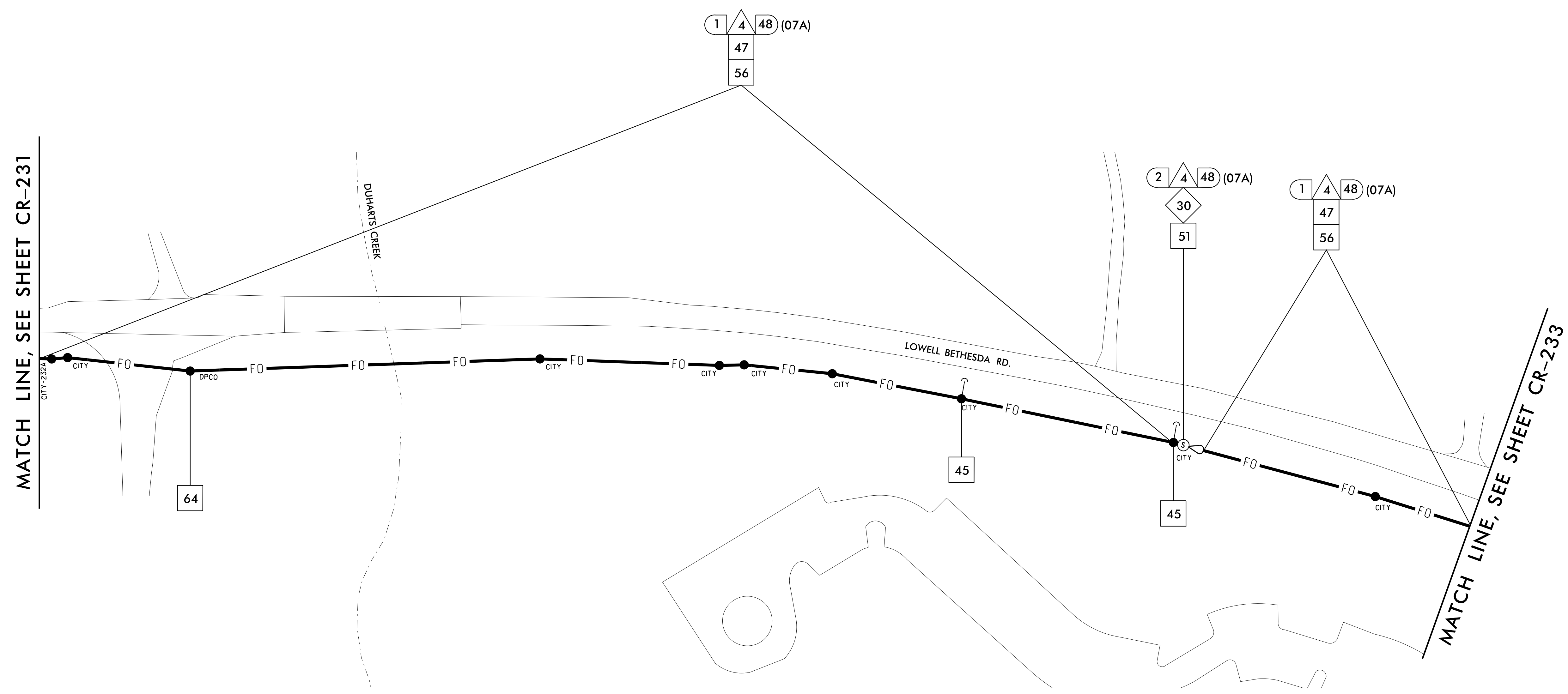
SCALE: 0 50

DocuSigned by: Inger Van Osdel 3/18/2022

CADD File name:

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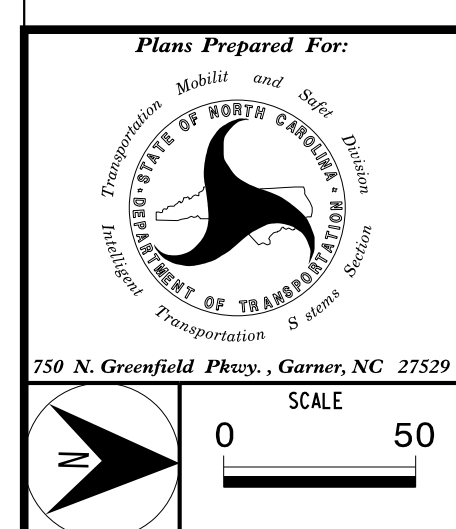


3/17/2022 KARAL.TPTD.LTS\01036569_Gastonia_SignalSystem\6_Tasks\Plans\Cable_Routing_SHT232_CR.dgn

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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
4	INSTALL SMFO CABLE	15	DIRECTIONAL DRILL CONDUIT	26	INSTALL NEW ETHERNET EDGE SWITCH	37	INSTALL CCTV CAMERA WOOD POLE	47	INSTALL MESSENGER CABLE	55	LASH CABLE(S) TO EXISTING MESSENGER / SIGNAL CABLE	67	SLACK SPAN
5	EXISTING SMFO CABLE	16	BORE AND JACK CONDUIT	27	INSTALL NEW FIBER OPTIC TRANSCEIVER	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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	48B	REMOVE EXISTING COMMUNICATIONS CABLE	57	MODIFY EXISTING ELECTRICAL SERVICE	69	REMOVE EXISTING SIGNAL CABINET AND CONTROLLER
7	INSTALL TRACER WIRE	18	INSTALL CABLE(S) IN NEW CONDUIT	29	INSTALL UNDERGROUND SPLICE ENCLOSURE	40A	INSTALL OVERSIZED JUNCTION BOX	49	BACK PULL EXISTING COMMUNICATIONS CABLE	58	INSTALL NEW ELECTRICAL SERVICE	70	REMOVE EXISTING CCTV CAMERA ASSEMBLY
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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT	21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	32	INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	42	INSTALL WOOD POLE	52A	INSTALL DELINEATOR MARKER	61	DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	73	MODIFY EXISTING CABINET FOUNDATION
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 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER	43	REMOVE EXISTING WOOD POLE	52B	INSTALL JUNCTION BOX MARKER	62	BOND RISER AND MESSENGER CABLE TO POLE GROUND	74	REMOVE EXISTING WIRELESS SYSTEM
								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:

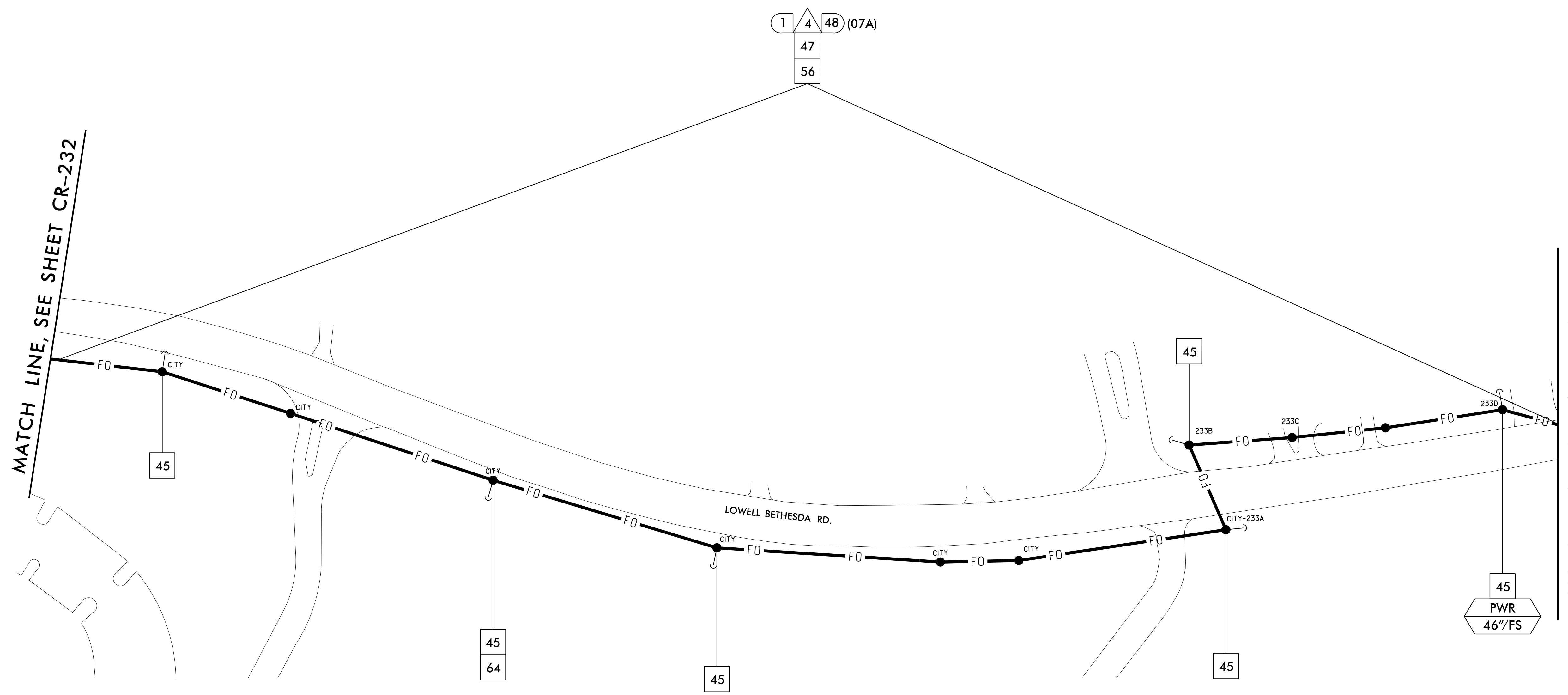
- ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
- MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.



CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 028952
 I. VAN OSDEL
 DATE 3/18/2022
 CADD File name:



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	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER CABLE TO POLE GROUND
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	45	INSTALL STANDARD GUY ASSEMBLY	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT
3	EXISTING ETHERNET (OR COAX) CABLE	14	INSTALL POLYETHYLENE CONDUIT	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	36	INSTALL CCTV CAMERA ASSEMBLY	46	INSTALL SIDEWALK GUY ASSEMBLY	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE	66	INSTALL MOLDABLE DUCT SEAL
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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	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE	56	LASH CABLE(S) TO NEW MESSENGER CABLE	68	INSTALL CABINET BASE ADAPTER
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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")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA CABINET
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								63	BOND RISER TO POLE GROUND	75	INSTALL WIRELESS ETHERNET SYSTEM		

NOTES:
 1. ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.
 2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

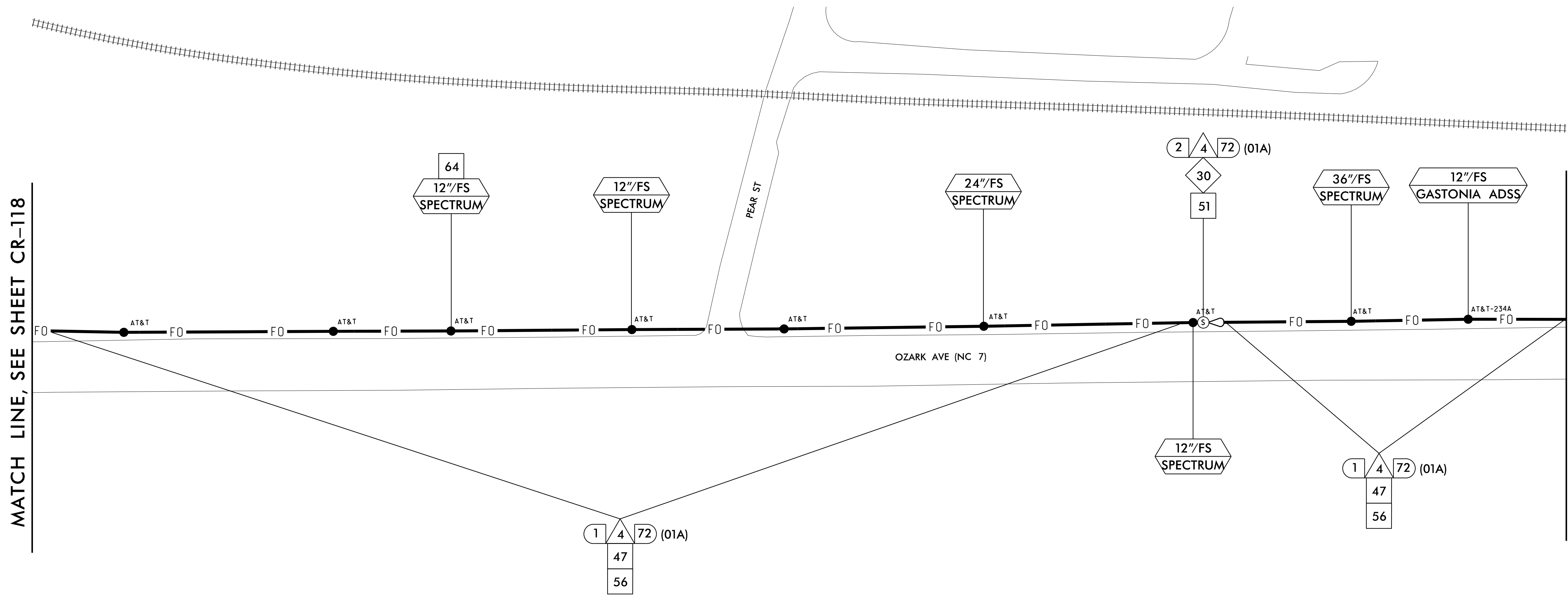


CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12	GASTON COUNTY
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 I. VAN OSDELL
 3/18/2022
 DATE

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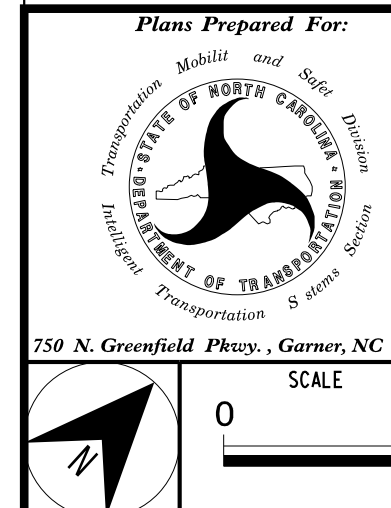


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