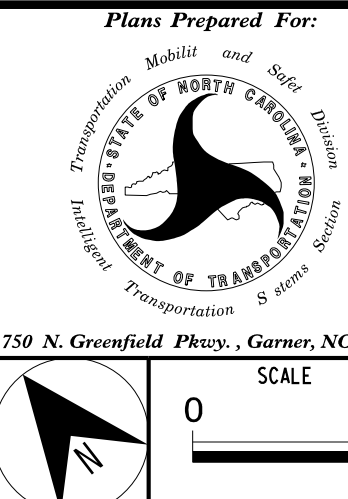


MATCH LINE, SEE SHEET CR-168

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

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

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
SEAL 028952
MICHAEL Z. VAN OSDELL

DocuSigned by:
Igor Van OsdeLL
3/18/2022

CADD Filename:

MATCH LINE, SEE SHEET CR-167

PINEHAVEN DR

OAK HOLLOW RD

1 4 24 (02A)
54

2 4 24 (02A)
30
51

NEW HOPE RD (NC 279)

CITY - 168A

BALLARD DR

1 4 24 (02A)
54

MATCH LINE, SEE SHEET CR-169

- | | | | |
|----|--|----|--|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL |
| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT |
| 3 | EXISTING ETHERNET (OR COAX) CABLE | 14 | INSTALL POLYETHYLENE CONDUIT |
| 4 | INSTALL SMFO CABLE | 15 | DIRECTIONAL DRILL CONDUIT |
| 5 | EXISTING SMFO CABLE | 16 | BORE AND JACK CONDUIT |
| 6 | INSTALL FIBER OPTIC DROP CABLE | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT |
| 7 | INSTALL TRACER WIRE | 18 | INSTALL CABLE(S) IN NEW CONDUIT |
| 8 | TRENCH | 19 | INSTALL CABLE(S) IN EXISTING RISER |
| 9 | INSTALL PVC CONDUIT | 20 | INSTALL CABLE(S) IN NEW RISER |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD | 22 | INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) |

- | | |
|----|--|
| 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) |
| 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET |
| 25 | INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET |
| 26 | INSTALL NEW ETHERNET EDGE SWITCH |
| 27 | INSTALL NEW FIBER OPTIC TRANSCEIVER |
| 28 | INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET |
| 29 | INSTALL UNDERGROUND SPLICE ENCLOSURE |
| 30 | INSTALL AERIAL SPLICE ENCLOSURE |
| 31 | MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE |
| 32 | INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER |
| 33 | INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER |

- | | |
|-----|--|
| 34 | INSTALL CABINET FOUNDATION |
| 35 | INSTALL CCTV CAMERA POLE MOUNTED CABINET |
| 36 | INSTALL CCTV CAMERA ASSEMBLY |
| 37 | INSTALL CCTV CAMERA WOOD POLE |
| 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION |
| 39 | INSTALL JUNCTION BOX |
| 40A | INSTALL OVERSIZED JUNCTION BOX |
| 40B | INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") |
| 41 | REMOVE EXISTING JUNCTION BOX |
| 42 | INSTALL WOOD POLE |
| 43 | REMOVE EXISTING WOOD POLE |

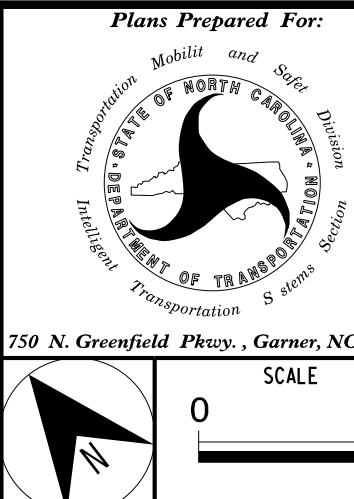
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| 44 | INSTALL AERIAL GUY ASSEMBLY |
| 45 | INSTALL STANDARD GUY ASSEMBLY |
| 46 | INSTALL SIDEWALK GUY ASSEMBLY |
| 47 | INSTALL MESSENGER CABLE |
| 48A | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE |
| 48B | REMOVE EXISTING COMMUNICATIONS CABLE |
| 49 | BACK PULL EXISTING COMMUNICATIONS CABLE |
| 50 | INSTALL CELL MODEM AND ANTENNA |
| 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE |
| 52A | INSTALL DELINEATOR MARKER |
| 52B | INSTALL JUNCTION BOX MARKER |

- | | |
|-----|---|
| 53A | STORE 20 FEET OF COMMUNICATIONS CABLE |
| 53B | STORE 50 FEET OF EACH COMMUNICATIONS CABLE |
| 54 | LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE |
| 55 | LASH CABLE(S) TO EXISTING MESSENGER /SIGNAL CABLE |
| 56 | LASH CABLE(S) TO NEW MESSENGER CABLE |
| 57 | MODIFY EXISTING ELECTRICAL SERVICE |
| 58 | INSTALL NEW ELECTRICAL SERVICE |
| 59 | INSTALL NEW EQUIPMENT CABINET DISCONNECT |
| 60 | BOND TRACER WIRE TO EQUIPMENT GROUND BUS |
| 61 | DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS |
| 62 | BOND RISER AND MESSENGER CABLE TO POLE GROUND |
| 63 | BOND RISER TO POLE GROUND |

- | | |
|----|---|
| 64 | BOND MESSENGER CABLE TO POLE GROUND |
| 65 | INSTALL HEAT SHRINK TUBING RETROFIT KIT |
| 66 | INSTALL MOLDABLE DUCT SEAL |
| 67 | SLACK SPAN |
| 68 | INSTALL CABINET BASE ADAPTER |
| 69 | REMOVE EXISTING SIGNAL CABINET AND CONTROLLER |
| 70 | REMOVE EXISTING CCTV CAMERA ASSEMBLY |
| 71 | REMOVE EXISTING CCTV CAMERA CABINET |
| 72 | REMOVE CABINET FOUNDATION |
| 73 | MODIFY EXISTING CABINET FOUNDATION |
| 74 | REMOVE EXISTING WIRELESS SYSTEM |
| 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

Kimley»Horn




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

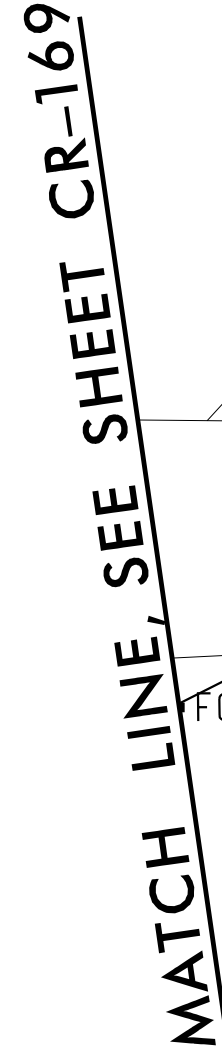
SEAL

DocuSigned by:
Iker Z. Van Osdel
3/18/2022

CADD Filename:






- 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.

<p>Plans Prepared For:</p>  <p>TRANSPORTATION Mobility and Safe Division DEPARTMENT OF TRANSPORTATION TRANSPORTATION S plans Section</p>	<h2 style="margin: 0;">CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</h2>	<p>SEAL</p> 																																	
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<p>750 N. Greenfield Phcy., Garner, NC 27529</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVIEWS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		REVIEWS	INIT.	DATE																														
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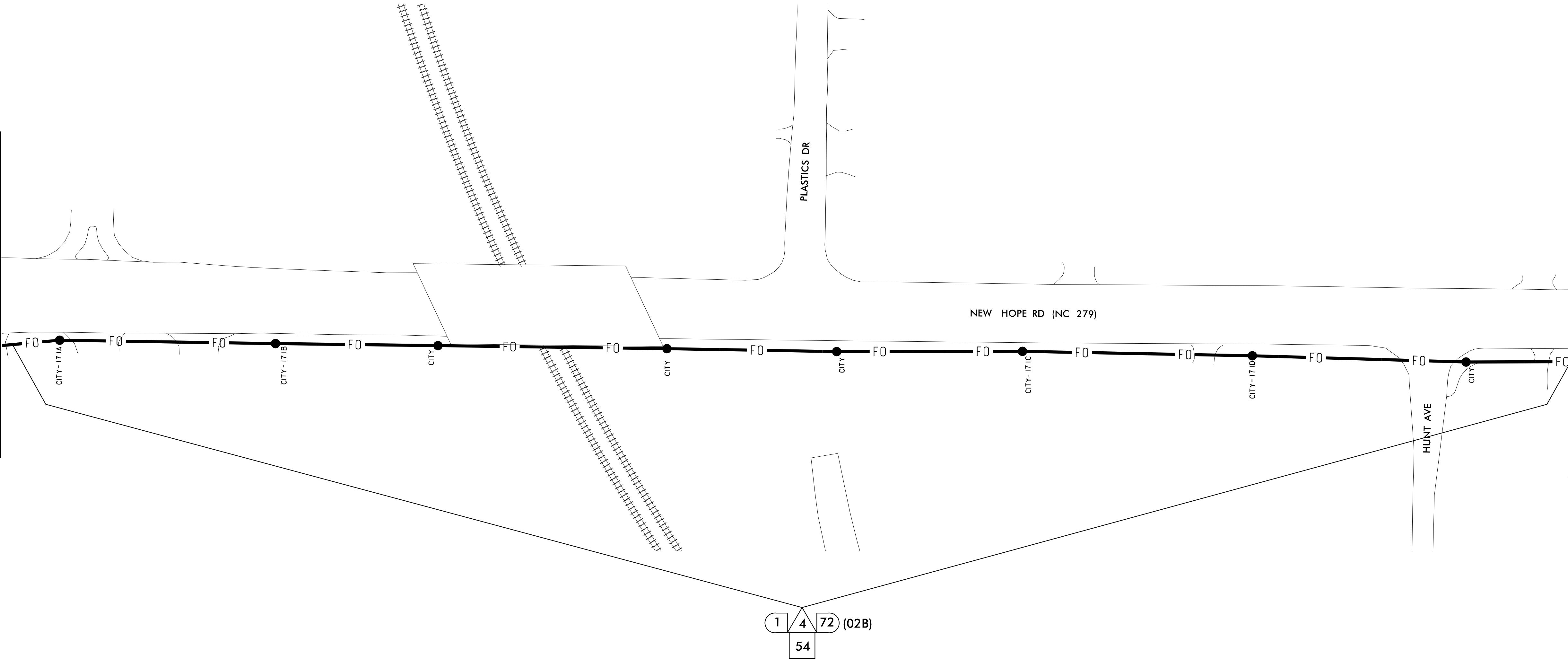
NOTES:

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.
3. CONNECT NEW RISER TO EXISTING SPARE CONDUIT STUB-OUT.

<p>Plans Prepared For:</p>  <p>TRANSPORTATION MOBILITY and Safety Division DEPARTMENT OF TRANSPORTATION SAFETY</p>	<p>CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</p>	<p>SEAL</p> 																																	
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MATCH LINE, SEE SHEET CR-170

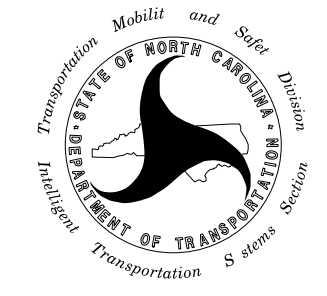
MATCH LINE, SEE SHEET CR-172



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

Plans Prepared For:



750 N. Greenfield Place, Garner, NC 27529

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

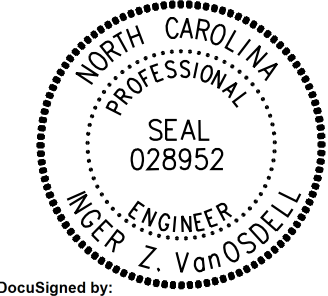
DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

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

REVISIONS	INIT.	DATE

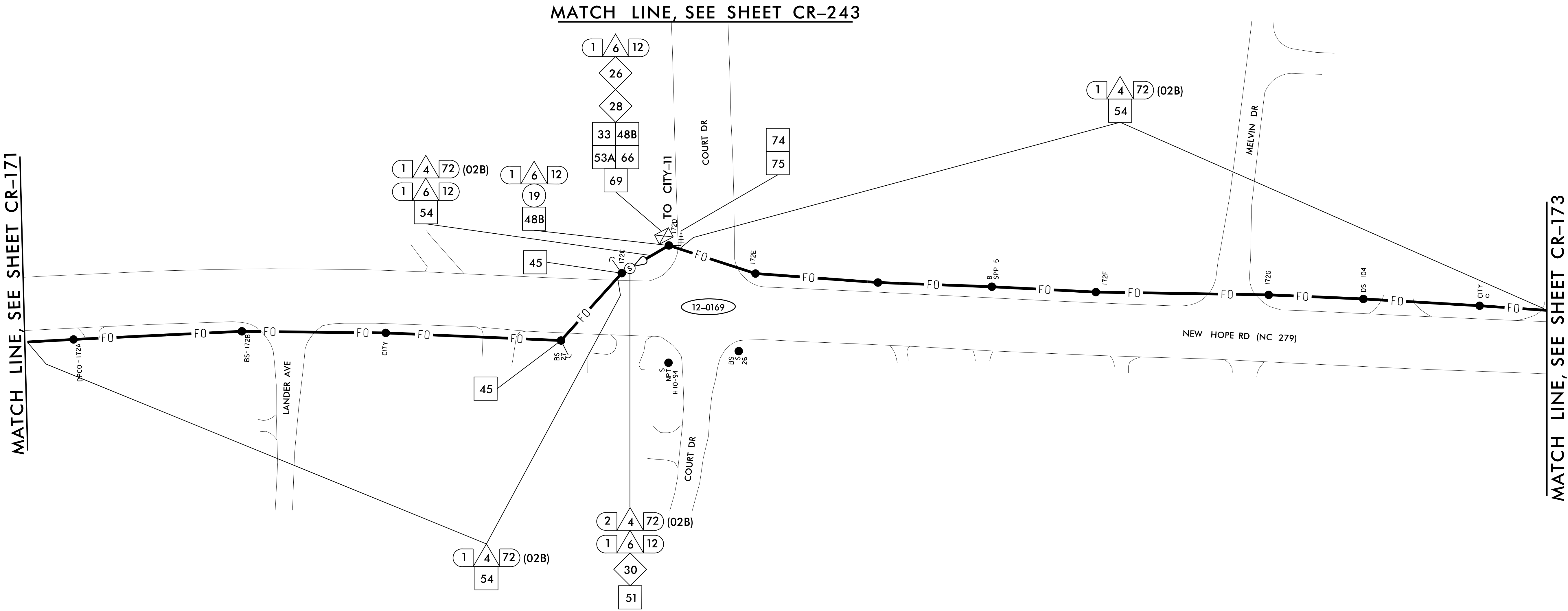
SEAL



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

DocuSigned by:
Igor Van Osdel
3/18/2022

CADD Filename:



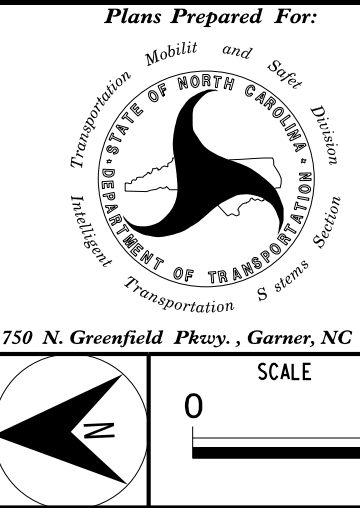
1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER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

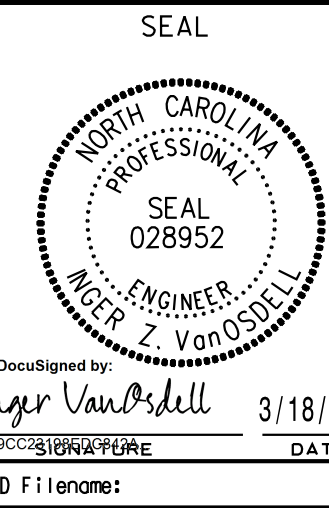


750 N. Greenfield Place, Garner, NC 27529

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	

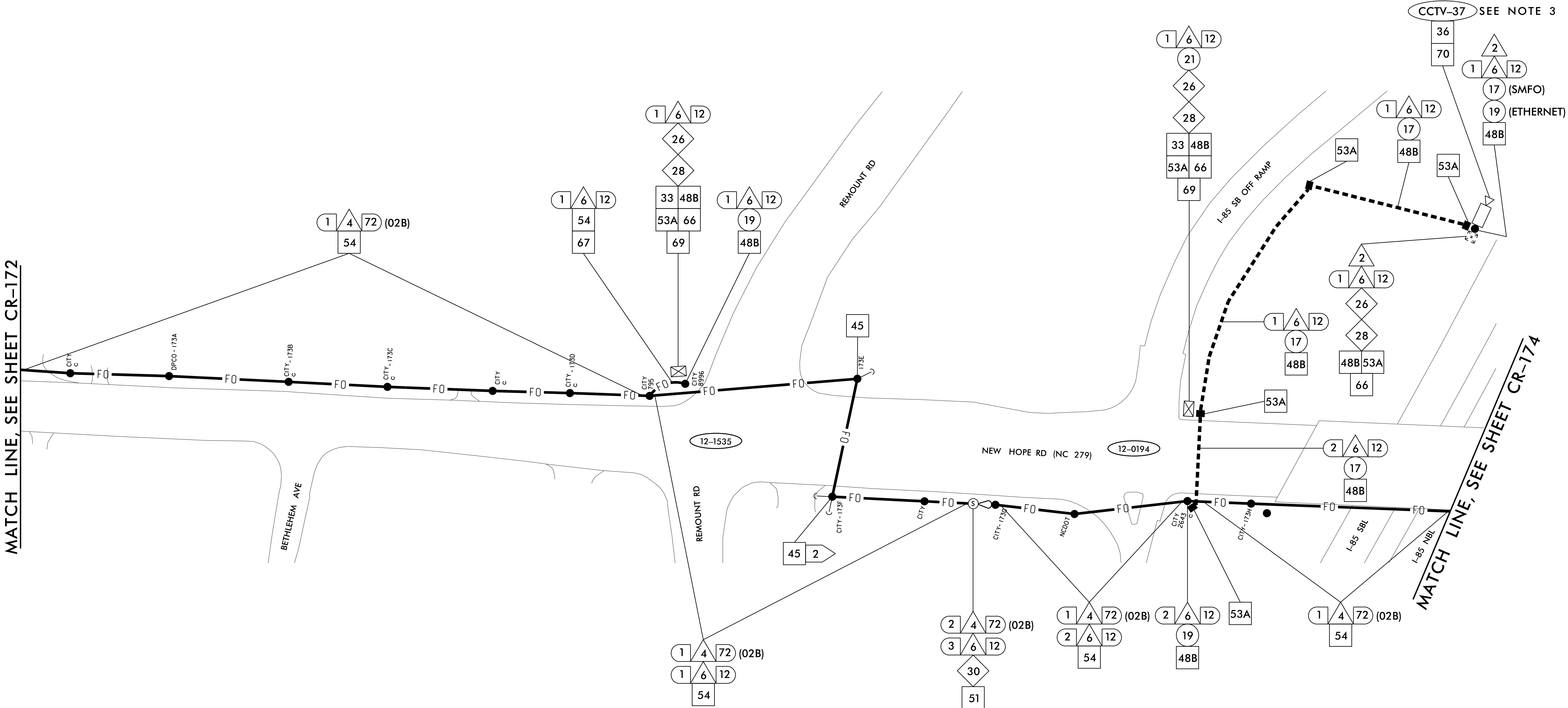
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DocuSigned by: Mike Z. Von Osdel
3/18/2022
CADD Filename:

MATCH LINE, SEE SHEET CR-172

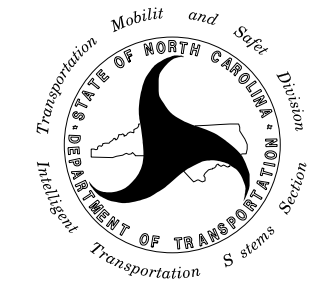
MATCH LINE, SEE SHEET CR-174



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. INSTALL NEW CCTV CAMERA IN PLACE OF EXISTING CCTV CAMERA.

Plans Prepared For:



750 N. Greenfield Place, Garner, NC 27529

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

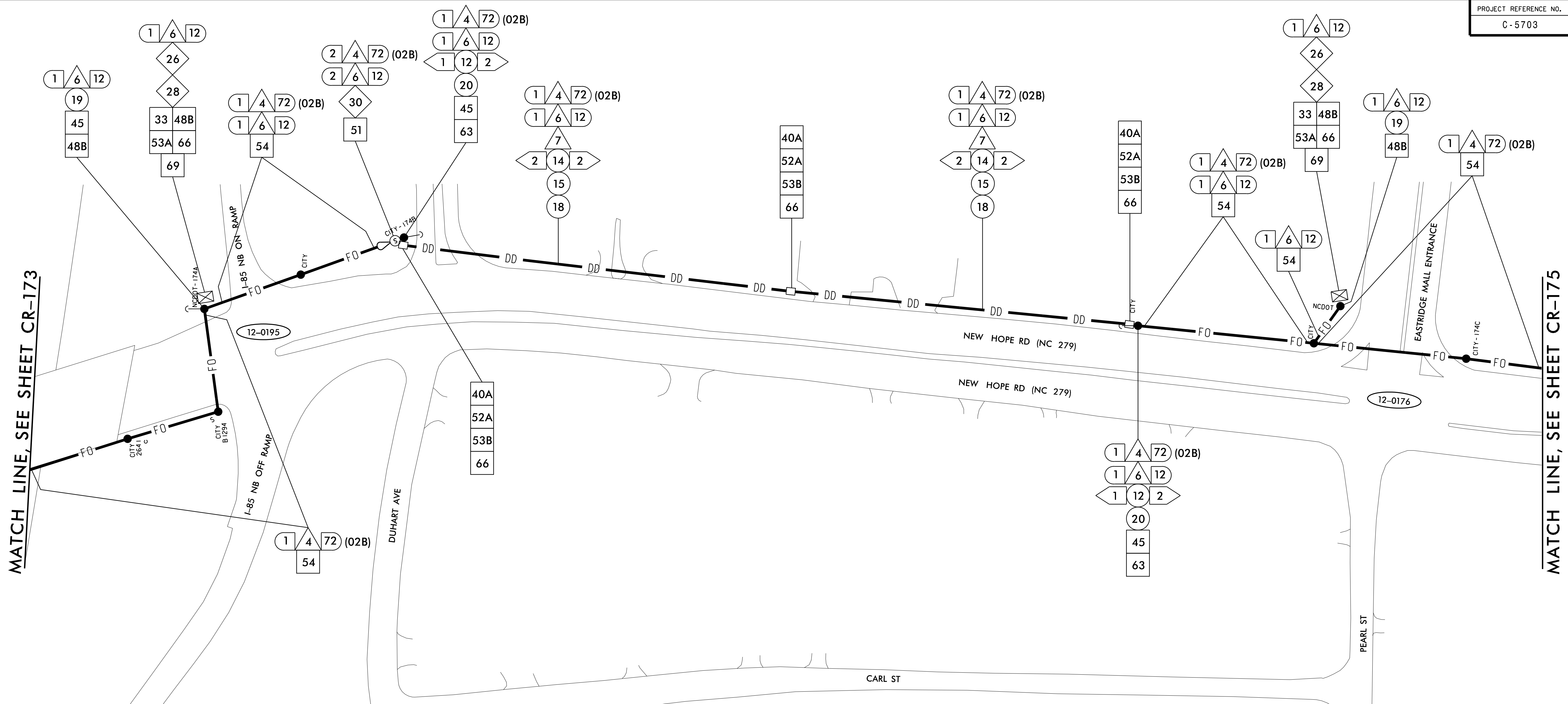
Seal of Kimley-Horn

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

Seal of North Carolina Professional Engineer

DocuSigned by: Inger Van Osdel
3/18/2022





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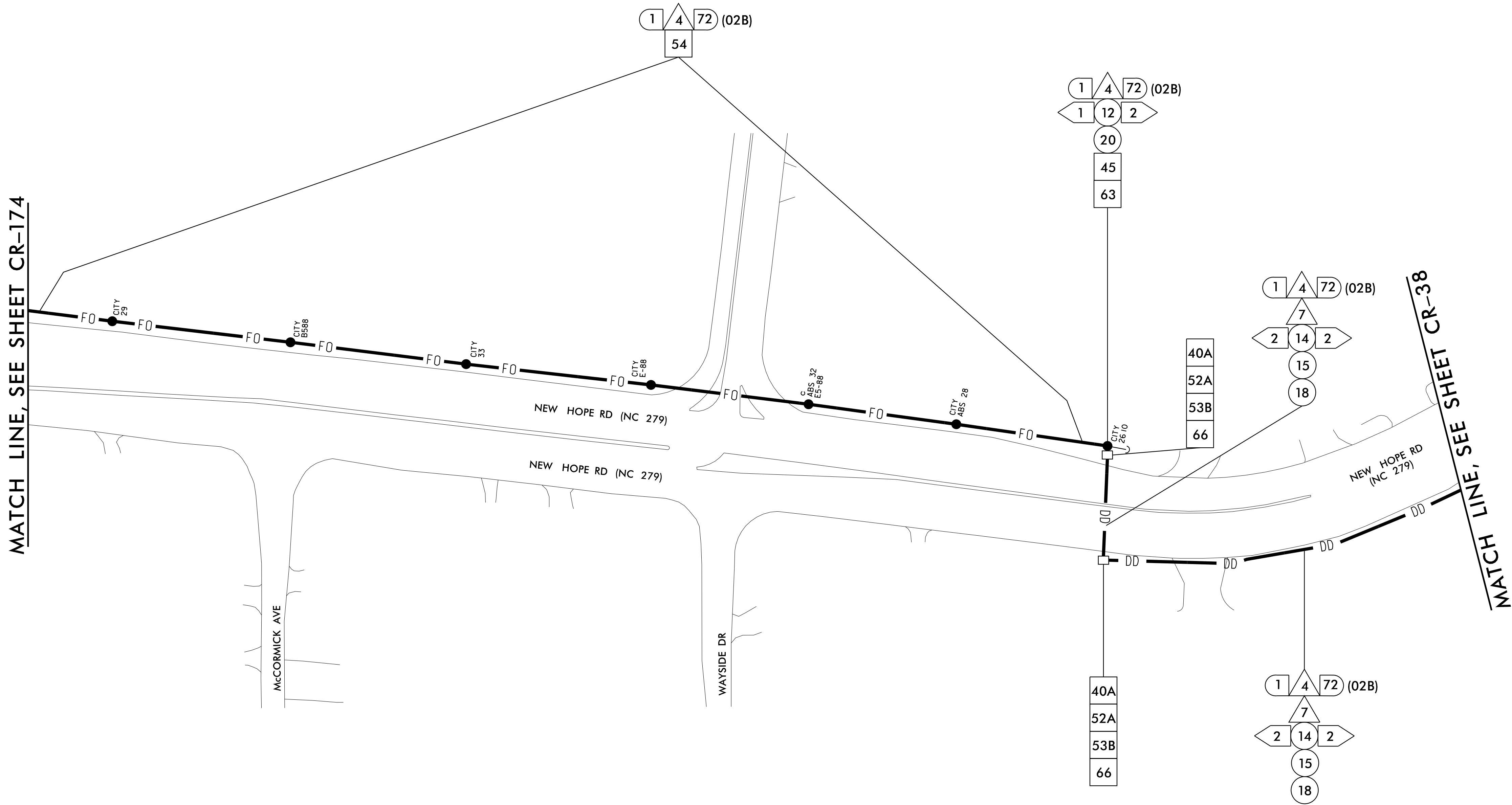


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|----|--|----|--|----|--|-----|--|-----|--|-----|---|----|---|
| 1 | INSTALL COAX CABLE | 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL | 23 | INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN 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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| 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 3365 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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2. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.

<p>Plans Prepared For:</p>  <p style="text-align: center;">STATE OF NORTH CAROLINA</p> <p style="text-align: center;">DEPARTMENT OF TRANSPORTATION</p> <p style="text-align: center;">Transportation Mobile and Safe Division Infrastructure & State Safety</p> <p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<h2 style="margin: 0;">CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</h2>	<p style="text-align: right;">SEAL</p> 																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DIVISION 12</td> <td style="width: 33%;">GASTON COUNTY</td> <td style="width: 34%;"></td> </tr> <tr> <td>PLAN DATE: DECEMBER 2021</td> <td>REVIEWED BY: K. SMITH</td> <td></td> </tr> <tr> <td>PREPARED BY: S. BUTLER</td> <td>REVIEWED BY: I. VAN OSDALL</td> <td></td> </tr> </table>			DIVISION 12	GASTON COUNTY		PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH		PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDALL																									
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 <p style="text-align: center;">SCALE</p> <div style="display: flex; align-items: center; justify-content: center;"> 0 <hr style="flex-grow: 1; border: 1px solid black;"/> 50 </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVISONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISONS	INIT.	DATE																															<p>Docusigned by _____</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  INGER Z. VON OSDALL <small>REGISTERED PROFESSIONAL ENGINEER</small> </div> <div style="text-align: right;"> 3/18/2022 DATE </div> </div> <p>CADD Filename: _____</p>
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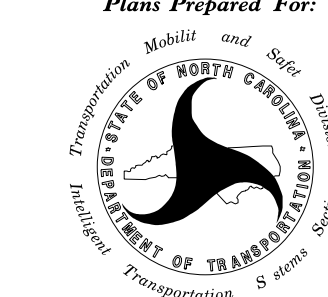


3/17/2022 K:\RAL_TPTD.LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH175_CR.dgn

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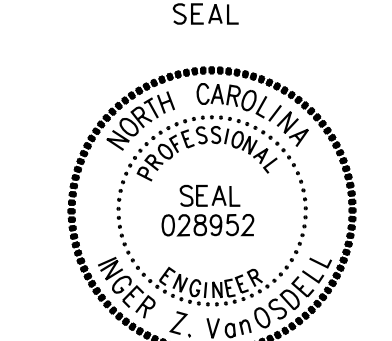
750 N. Greenfield Place, Garner, NC 27529

0 SCALE 50

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

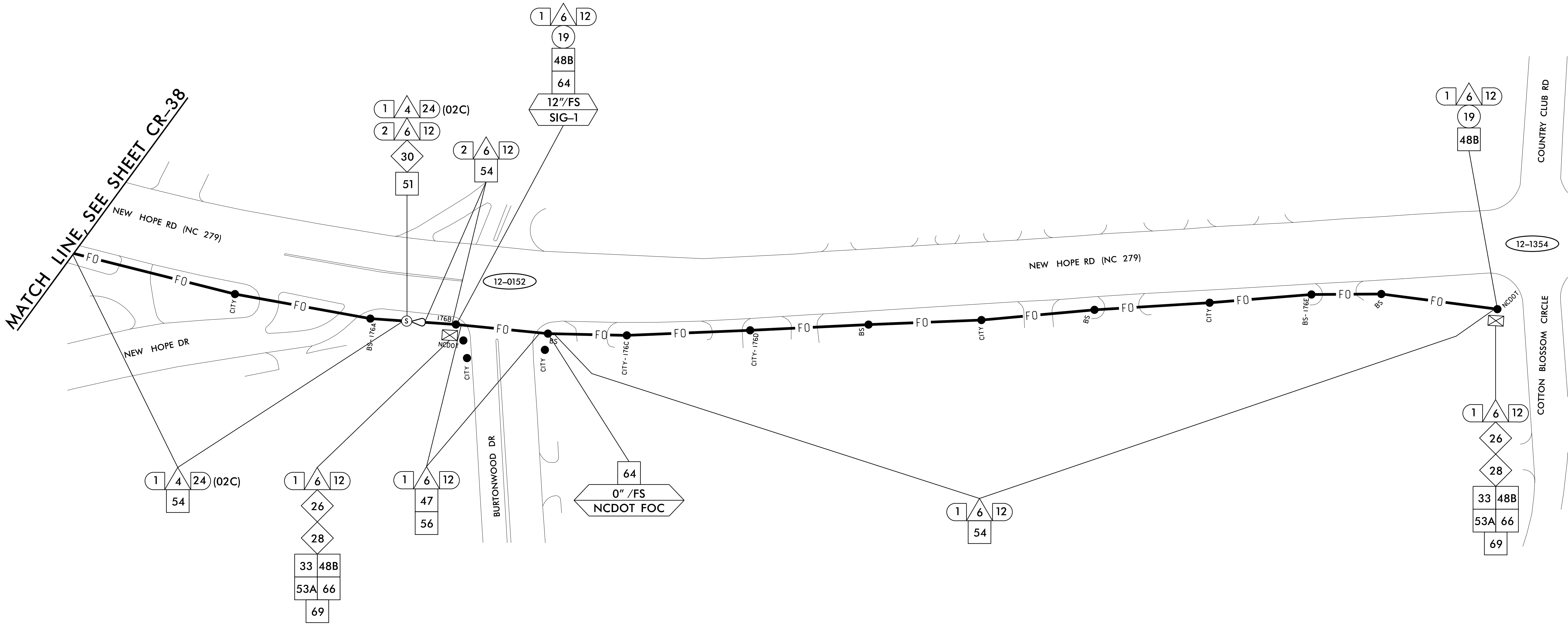
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DocuSigned by: *Mike Z. Von Osdel* 3/18/2022

CADD File name:



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

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:

Seal of the City of Gastonia

CITY OF GASTONIA

Professional Engineer

750 N. Greenfield Place, Gastonia, NC 27529

0

SCALE

50

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

Seal of the State of North Carolina

Seal of the Professional Engineer

SEAL 028952

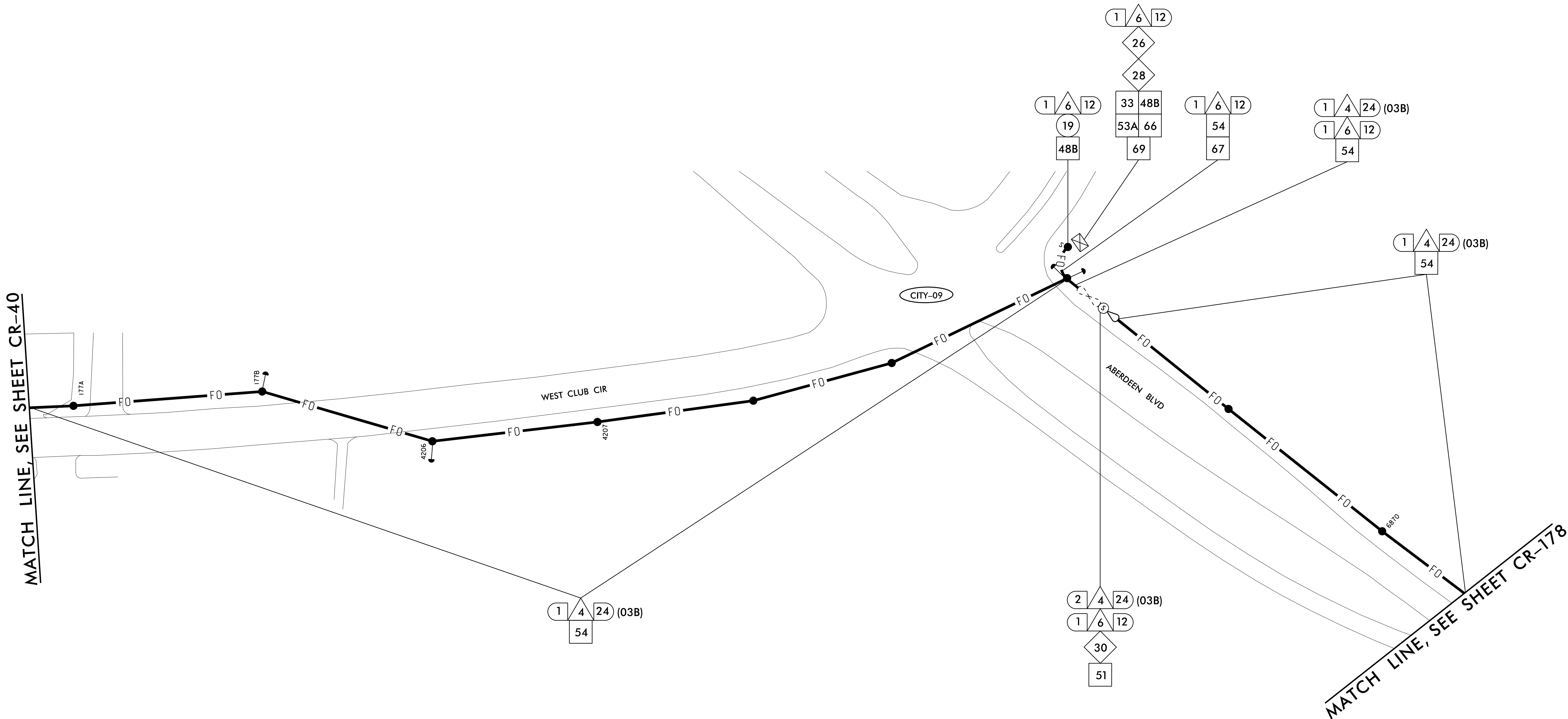
Professional Engineer

DocuSigned by:

Imper Van Osdel

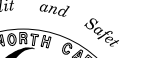




3/18/2022

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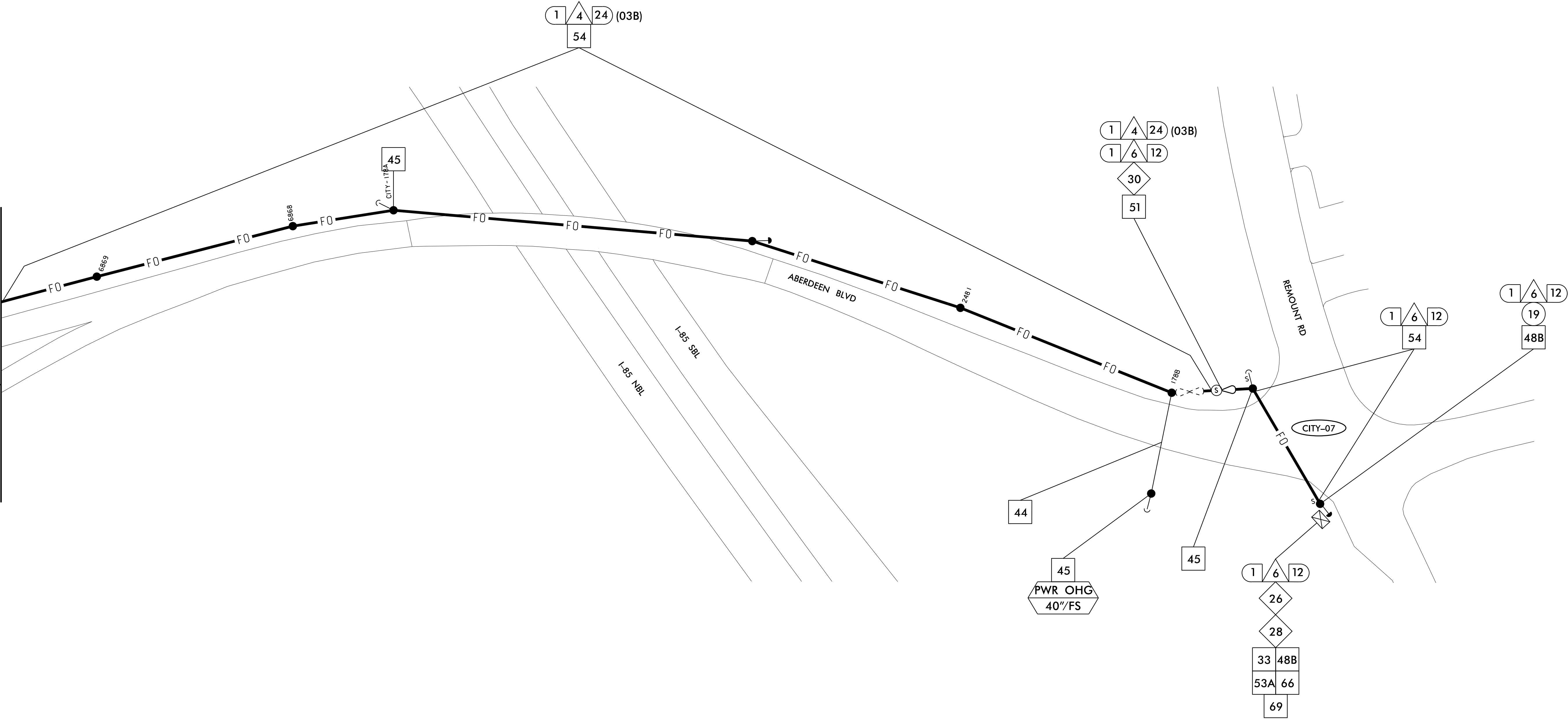


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|----|---|----|--|----|--|-----|--|-----|--|-----|---|----|---|
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| 2 | INSTALL ETHERNET CABLE | 13 | INSTALL OUTER-DUCT POLYETHYLENE CONDUIT | 24 | INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET | 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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| 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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| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT | 21 | INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS | 32 | INSTALL POLE MOUNTED 3365 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 |

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<p>Plans Prepared For:</p>  <p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</p>	<p>SEAL</p> 																																
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MATCH LINE, SEE SHEET CR-177



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Plans Prepared For:



750 N. Greenfield Place, Gastonia, NC 27529

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

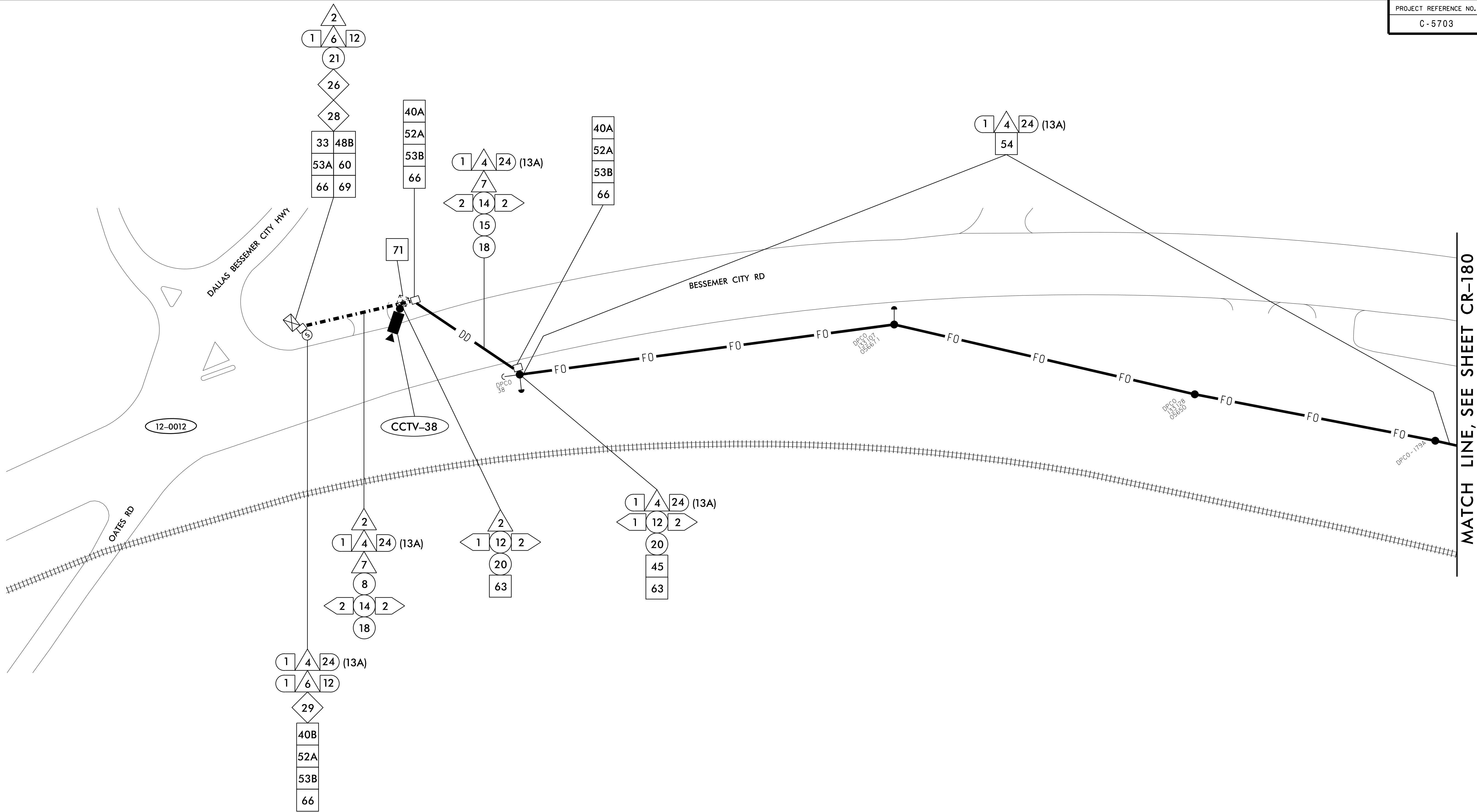
REVISIONS	INIT.	DATE

Seal of Kimley-Horn, Inc.

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

DocuSigned by:
Inger Van Osdel
3/18/2022


CADD Filename:



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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
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Plans Prepared For:



750 N. Greenfield Pkwy., Garner, NC 27529

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

DIVISION 12 GASTON COUNTY

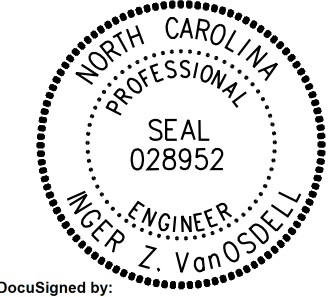
PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

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

REVISIONS	INIT.	DATE

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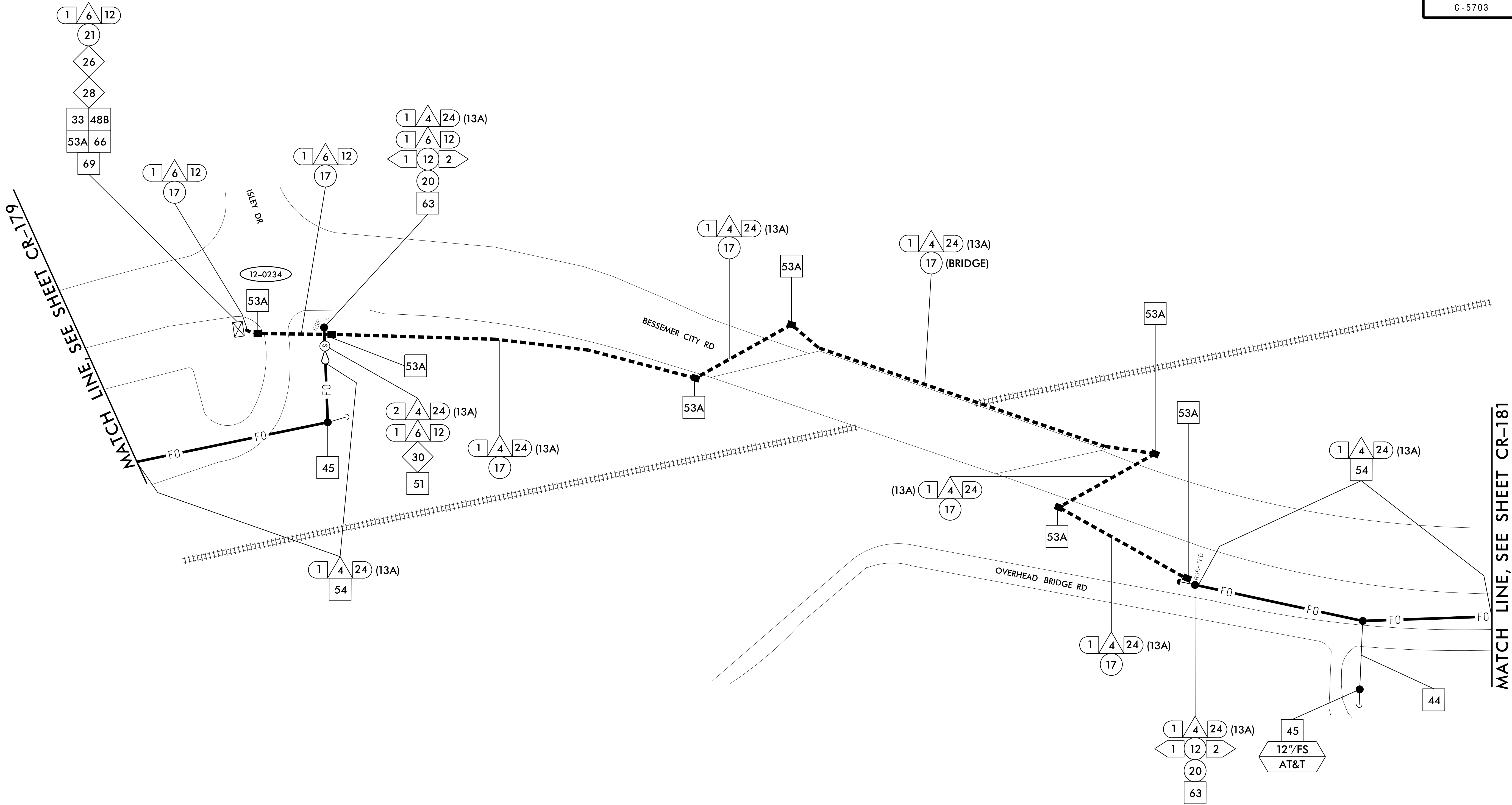


NC License #F-0102
421 Fayetteville St., Suite 600
Raleigh, NC 27601
Tel: (919) 677-2000
Fax: (919) 677-2050

DocuSigned by:
Inger Van Osdel
3/18/2022

CADD Filename:

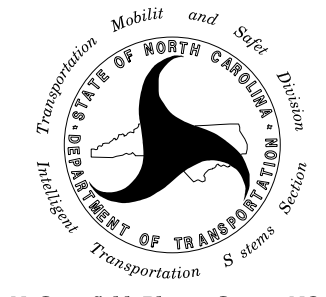
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Plans Prepared For:



750 N. Greenfield Place, Gastonia, NC 27529

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

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DocuSigned by:

Imper Van Osdel

3/18/2022

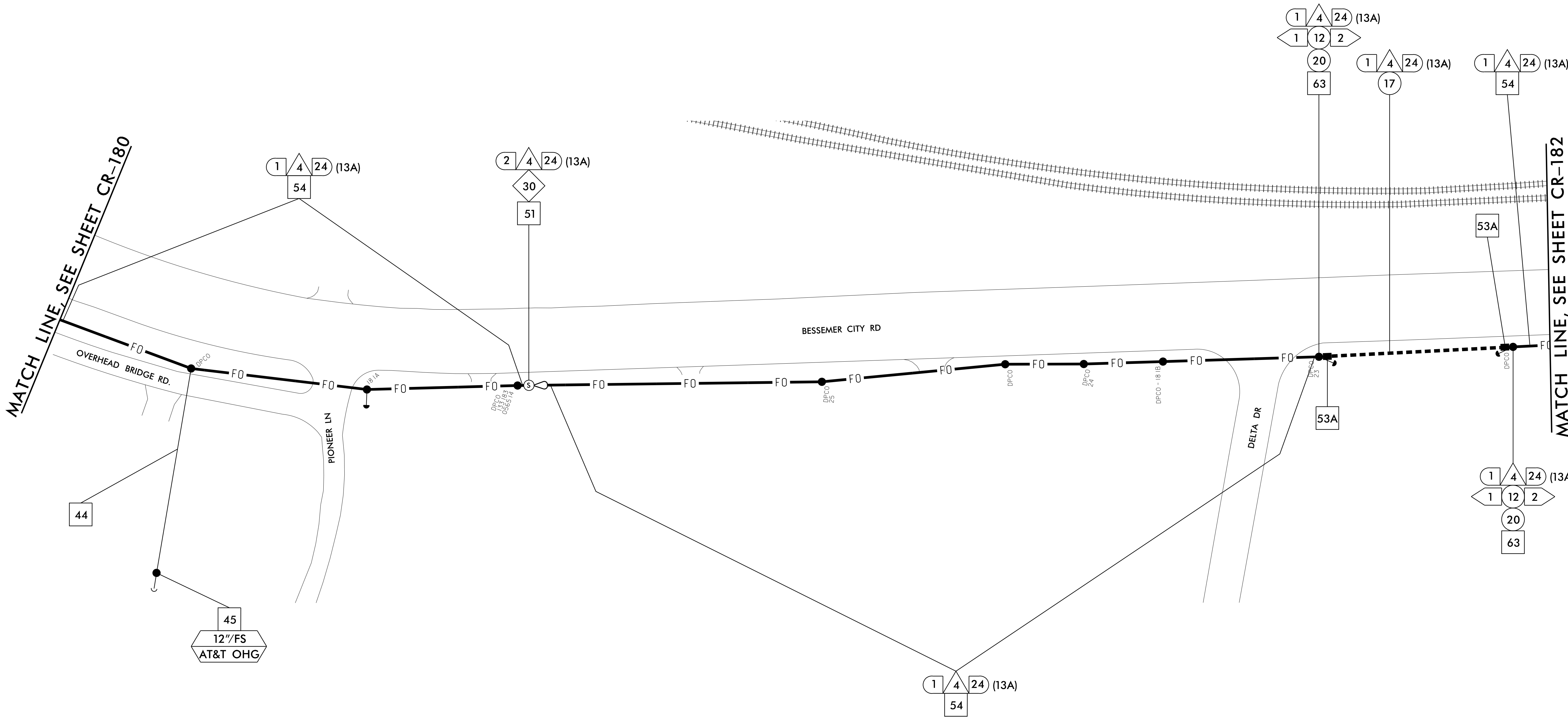
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NORTH CAROLINA PROFESSIONAL SEAL 028952

IMPER Z. VAN OSDELL

3/17/2022 K:\ARL\TPTD\ITS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH180_CR.dgn



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Plans Prepared For:

750 N. Greenfield Place, Garner, NC 27529

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

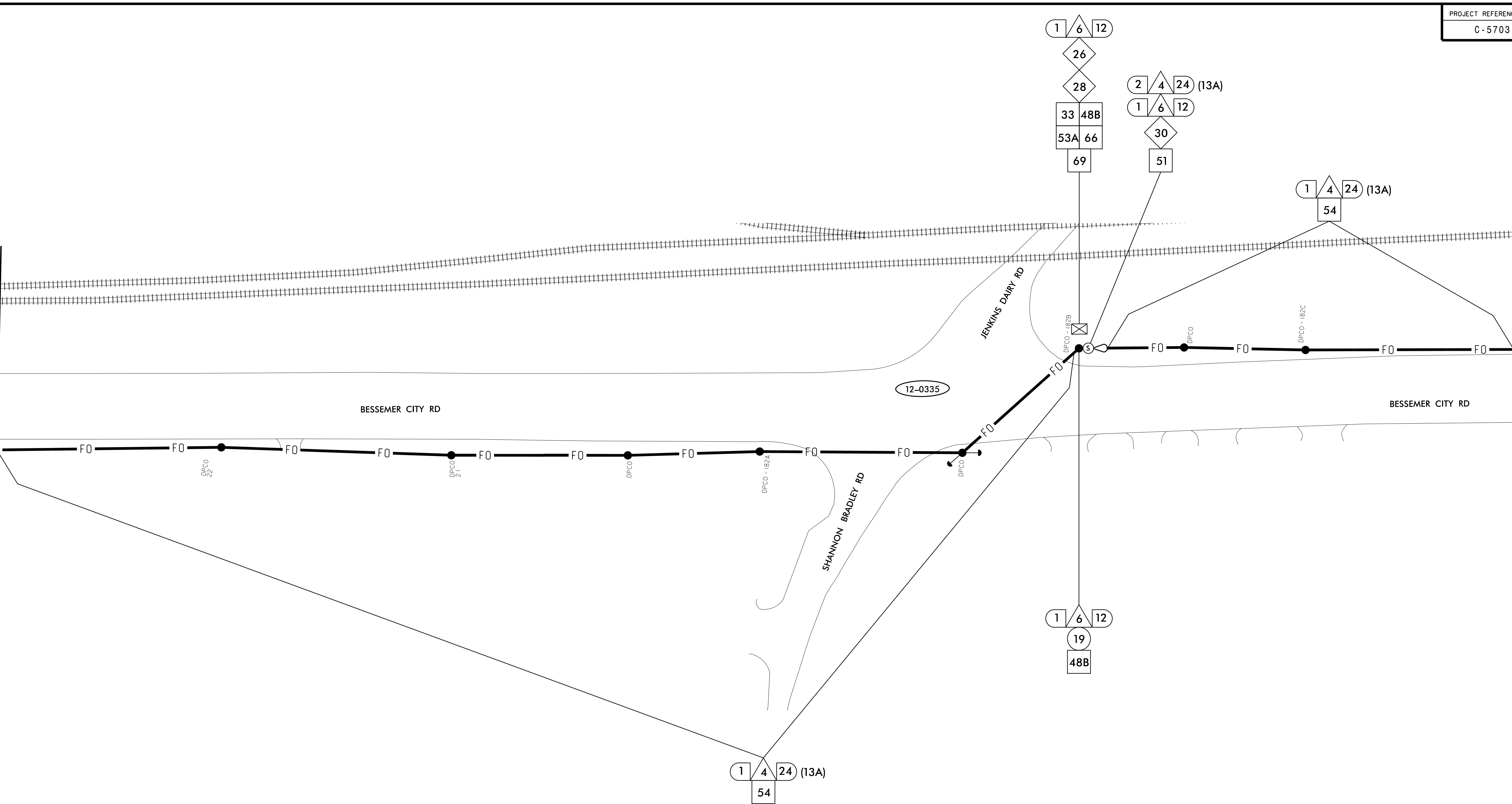
Seal of North Carolina Professional Engineer: MICHAEL Z. VAN OSDELL, No. 028952

DocuSigned by: Inger Van OsdeLL 3/18/2022

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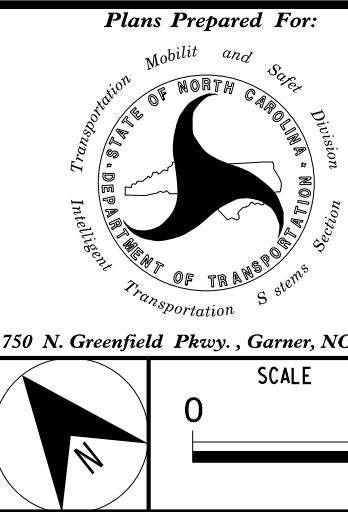
MATCH LINE, SEE SHEET CR-181

MATCH LINE, SEE SHEET CR-183



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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	

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

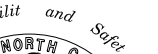

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 028952
MICHAEL Z. VAN OSDELL
DocuSigned by: Iger Van Osdel
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<p>Plans Prepared For:</p>  <p>Transportation Mobility and Safety Division Department of Transportation Intelligent Transportation Systems Section</p>	<h2 style="margin: 0;">CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</h2>	<p>SEAL</p> 																																	
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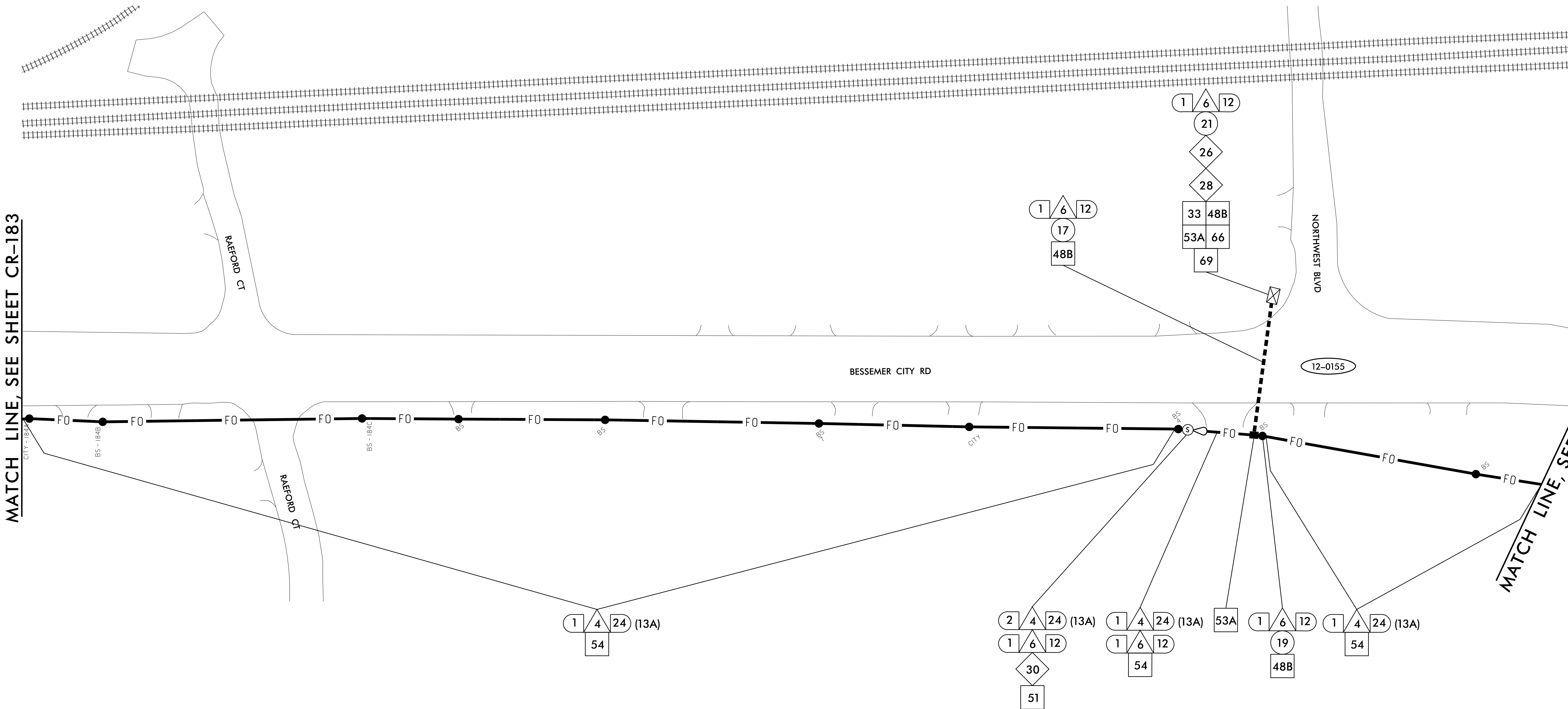
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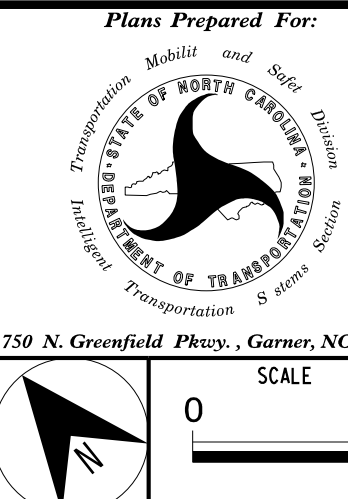
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Inger VanOsdel 3/18/2022

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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 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 CABINET
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

Kimley»Horn

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

SEAL

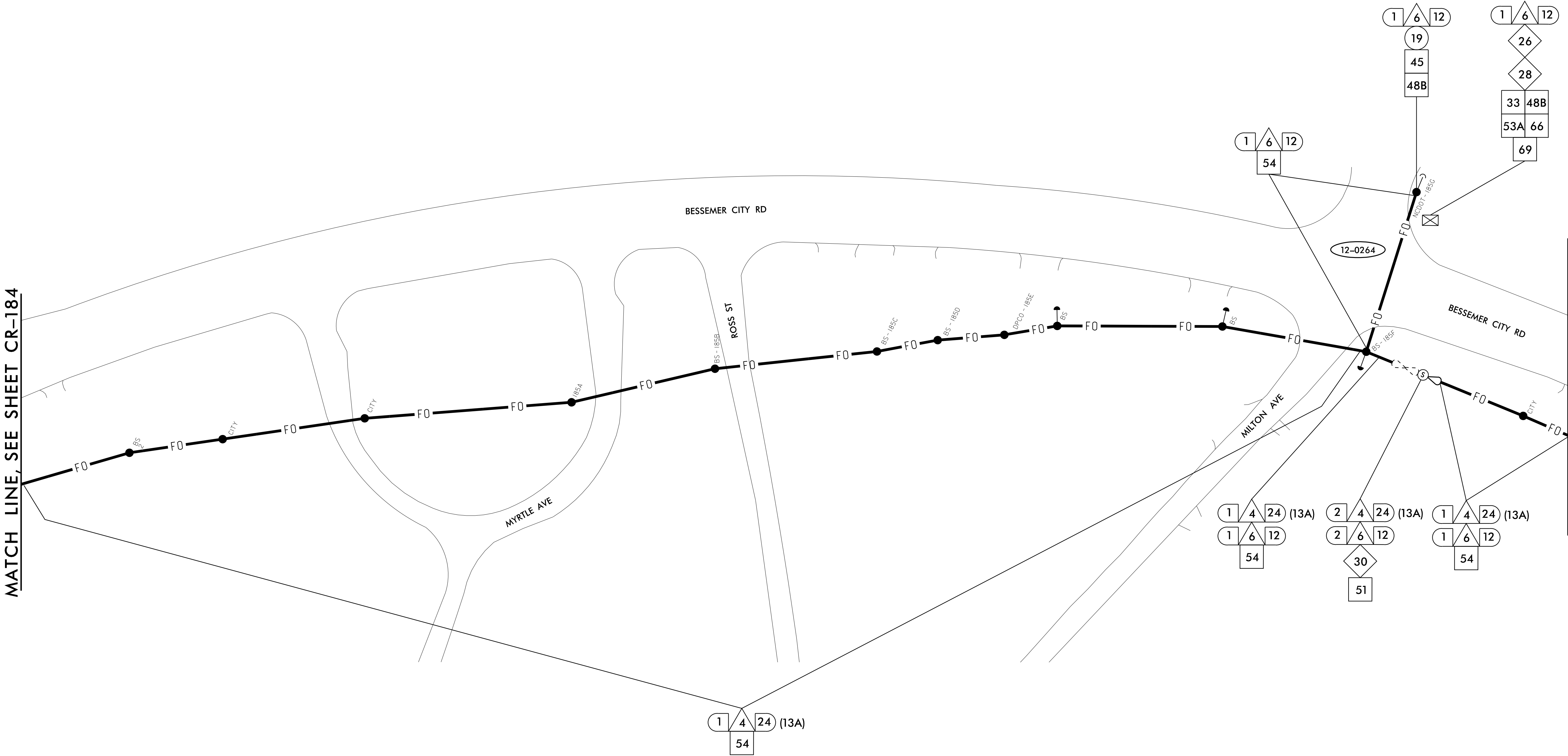
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL 028952
MICHAEL Z. VAN OSDELL

DocuSigned by:
Igor Van OsdeLL
3/18/2022

CADD File name:

MATCH LINE, SEE SHEET CR-184

MATCH LINE, SEE SHEET CR-186



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

Professional Engineer and Surveyor

STATE OF NORTH CAROLINA

Professional Engineer and Surveyor

750 N. Greenfield Place, Gaston, NC 27529

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

0 SCALE 50

SEAL

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

SEAL 028952

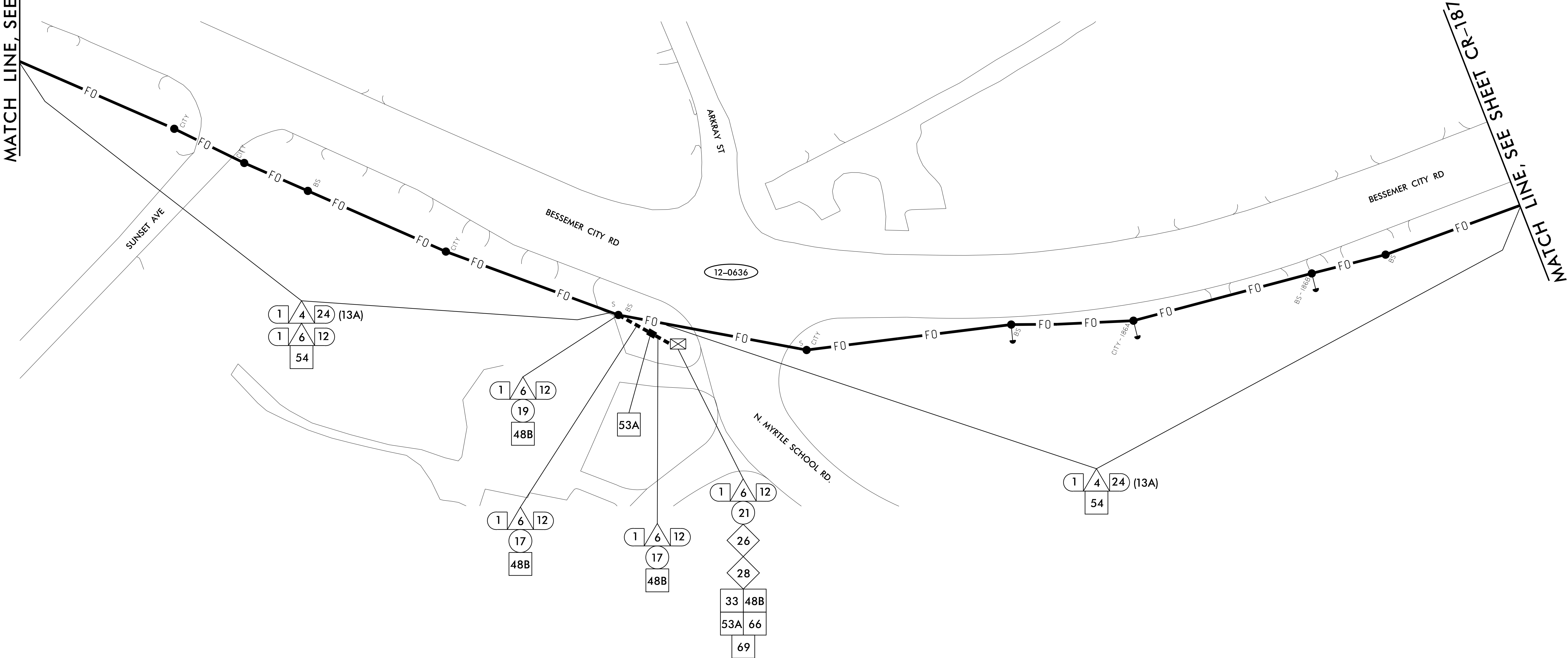
INCE Z. VAN OSDELL

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Inger Van Osdel 3/18/2022

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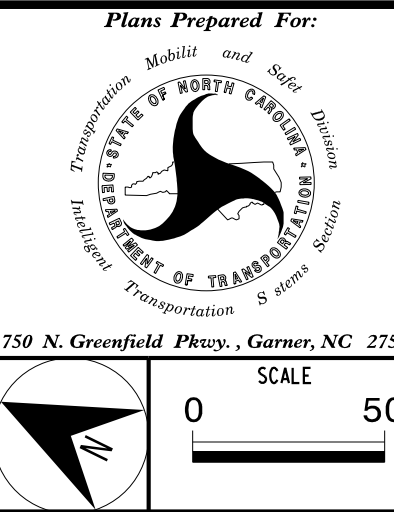
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Plans Prepared For:



750 N. Greenfield Pkwy., Garner, NC 27529

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

Seal of the State of North Carolina Professional Engineer

Kimley»Horn

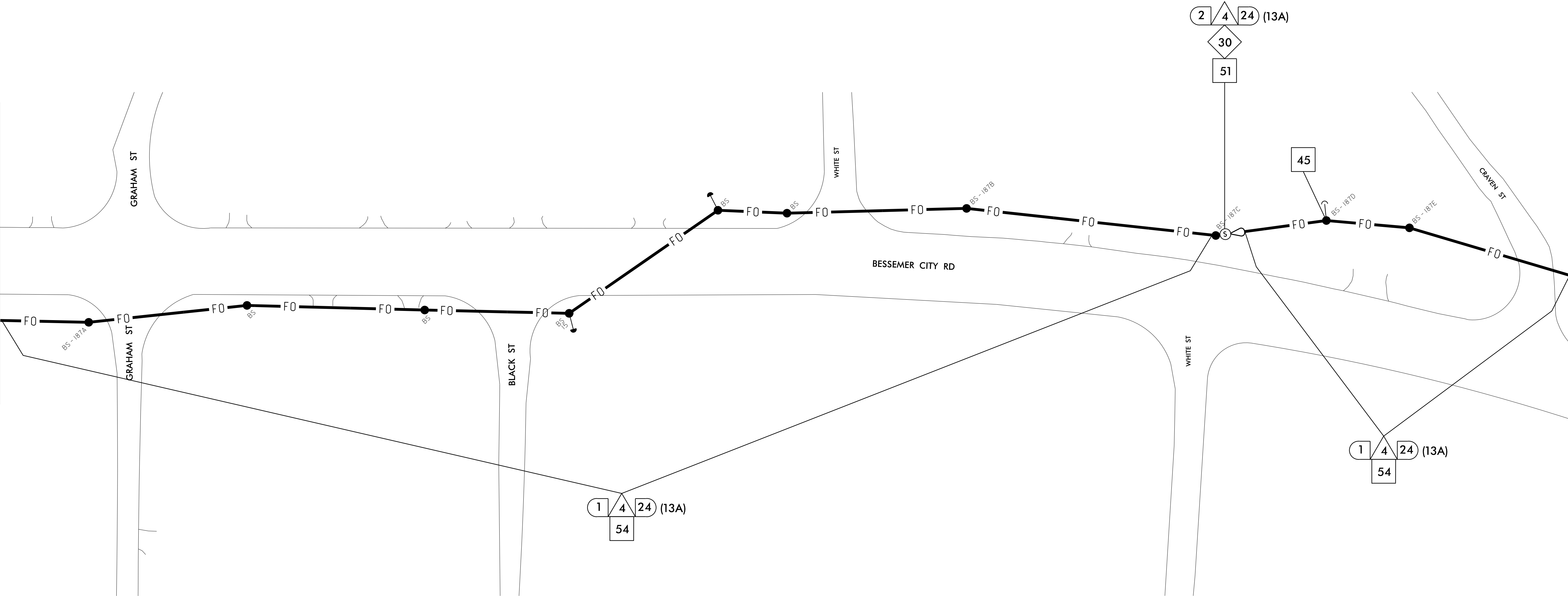
NC License #F-0102
421 Fayetteville St., Suite 600
Raleigh, NC 27601
Tel: (919) 677-2000
Fax: (919) 677-2050

DocuSigned by:
Inger Van Osdel
3/18/2022

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MATCH LINE, SEE SHEET CR-186


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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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Plans Prepared For:



750 N. Greenfield Place, Garner, NC 27529

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

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

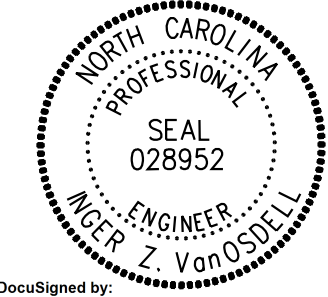
PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

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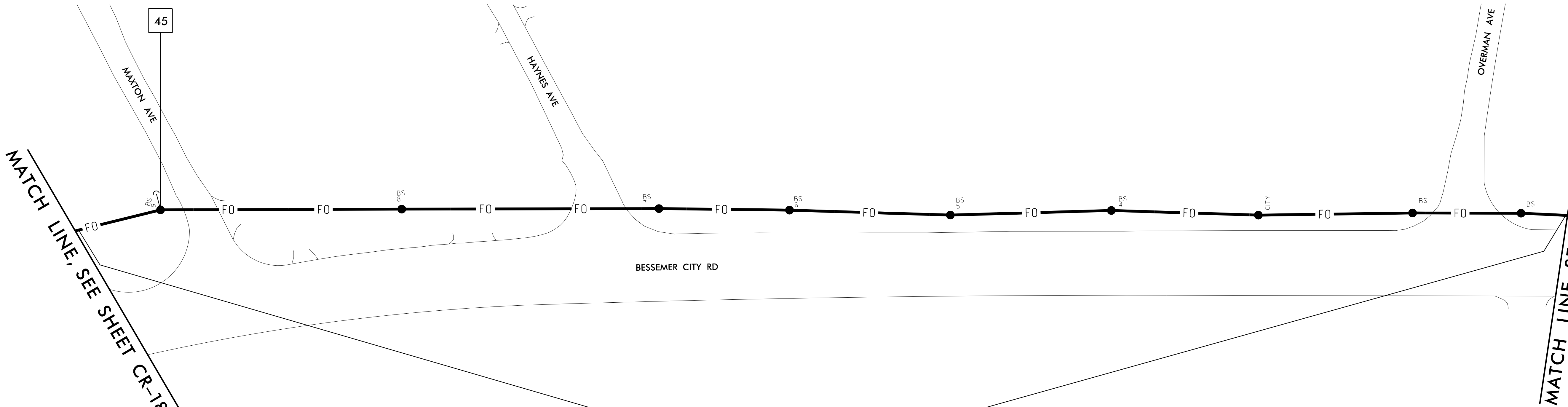
NC License #F-0102
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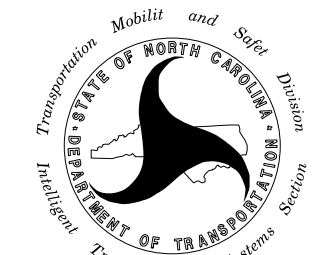


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NOTES:
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Plans Prepared For:



750 N. Greenfield Place, Garner, NC 27529

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

Seal of Kimley-Horn

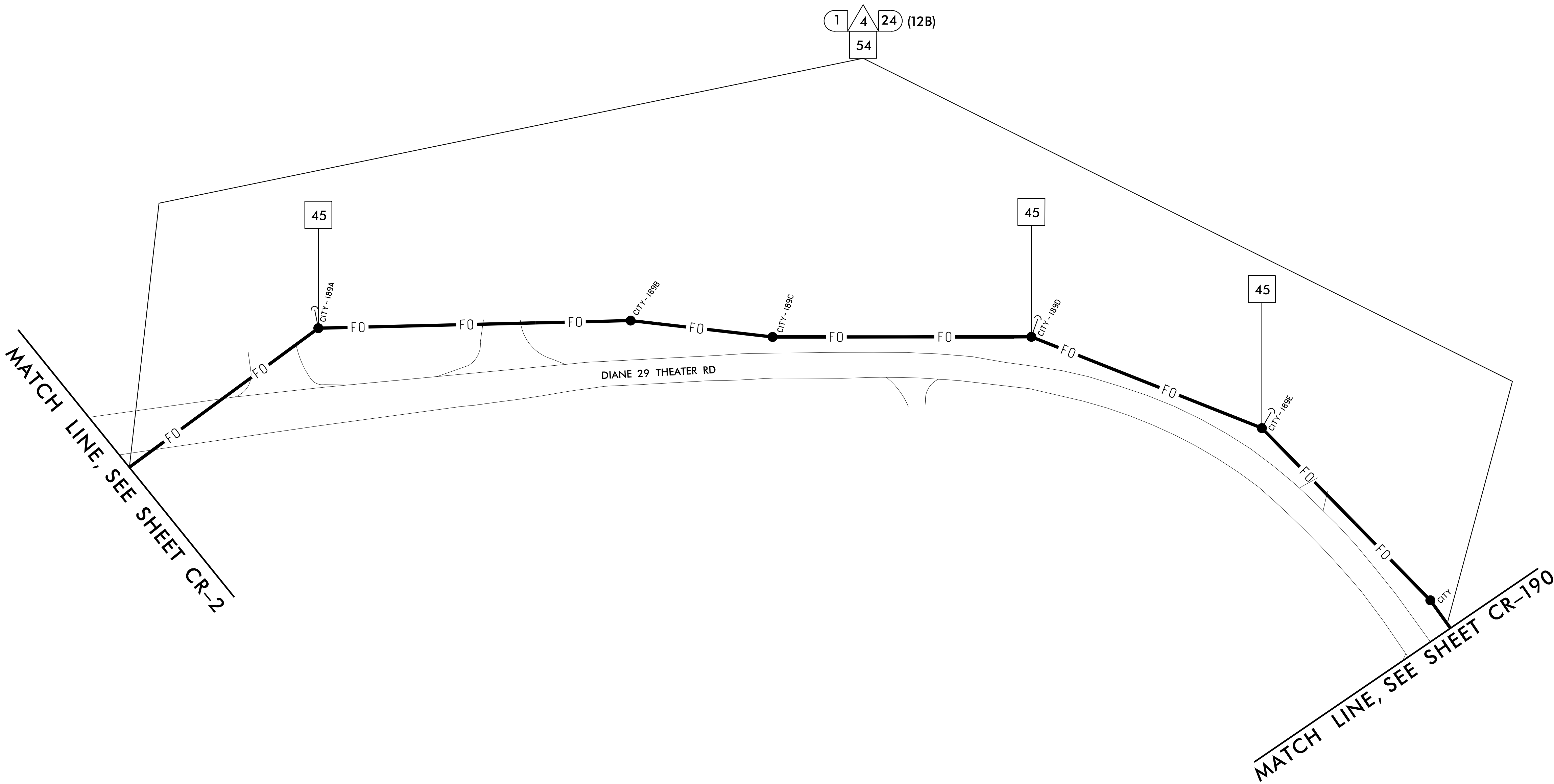
NC License #F-0102
421 Fayetteville St., Suite 600
Raleigh, NC 27601
Tel: (919) 677-2000
Fax: (919) 677-2050

Seal of North Carolina Professional Engineer

Seal 028952

Kimley-Horn

3/18/2022



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

750 N. Greenfield Place, Gastonia, NC 27529

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SCALE

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.

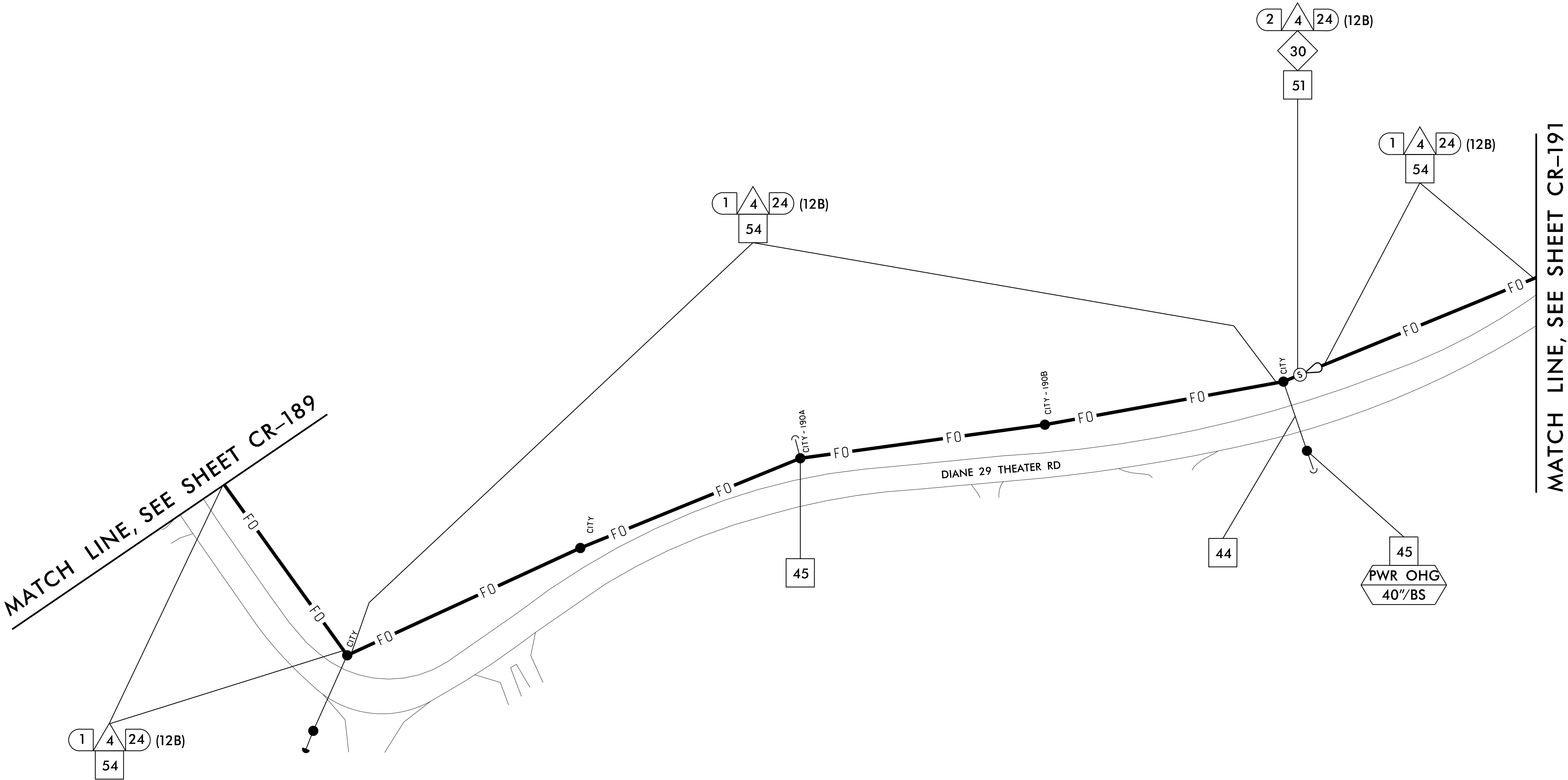
DATE

Seal of Kimley-Horn, Inc., North Carolina Professional Engineer 028952

Kimley-Horn, Inc.
3/18/2022
DATE

CADD Filename:

3/17/2022 K:\ARL_TPTD_LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH189_CR.dgn



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Plans Prepared For:
CITY OF GASTONIA
Department of Transportation
750 N. Greenfield Place, Gastonia, NC 27529

Seal of the City of Gastonia

Seal of the State of North Carolina

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

0 SCALE 50

Seal of the State of North Carolina

Seal of the Professional Engineer

Kimley»Horn

NC License #F-0102
421 Fayetteville St., Suite 600
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Tel: (919) 677-2000
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3/17/2022 K:\RAL_TPTD.LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH190_CR.dgn



MATCH LINE, SEE SHEET CR-192

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CITY OF GASTONIA
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750 N. Greenfield Parkway, Gastonia, NC 27529

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

DIVISION 12
PLAN DATE: DECEMBER 2021
PREPARED BY: S. BUTLER

GASTON COUNTY
REVIEWED BY: K. SMITH
REVIEWED BY: I. VAN OSDELL

REVISIONS
INIT. DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
028952
MICHAEL Z. VAN OSDELL
ENGINEER

DocuSigned by:
Igor Van OsdeLL
3/18/2022
CADD Filename:

MATCH LINE, SEE SHEET CR-191

1 4 24 (12B)
17

1 4 24 (12B)
1 6 12
29
53A

1 6 12
17

2
1 6 12
26
28
48B 53A
66

2
1 6 12
17 (SMFO)
19 (ETHERNET)
48B

CCTV-40 SEE NOTE 3
36
70

53A

EDGEWOOD RD.

I-85 NB OFF RAMP

1 6 12
17

I-85 NB ON RAMP

I-85 NB

I-85 SB

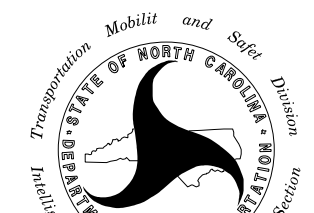
OATES RD.

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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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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- 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.
 3. INSTALL NEW CCTV CAMERA IN PLACE OF EXISTING CCTV CAMERA.

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

Plans Prepared For:



750 N. Greenfield Place, Garner, NC 27529


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

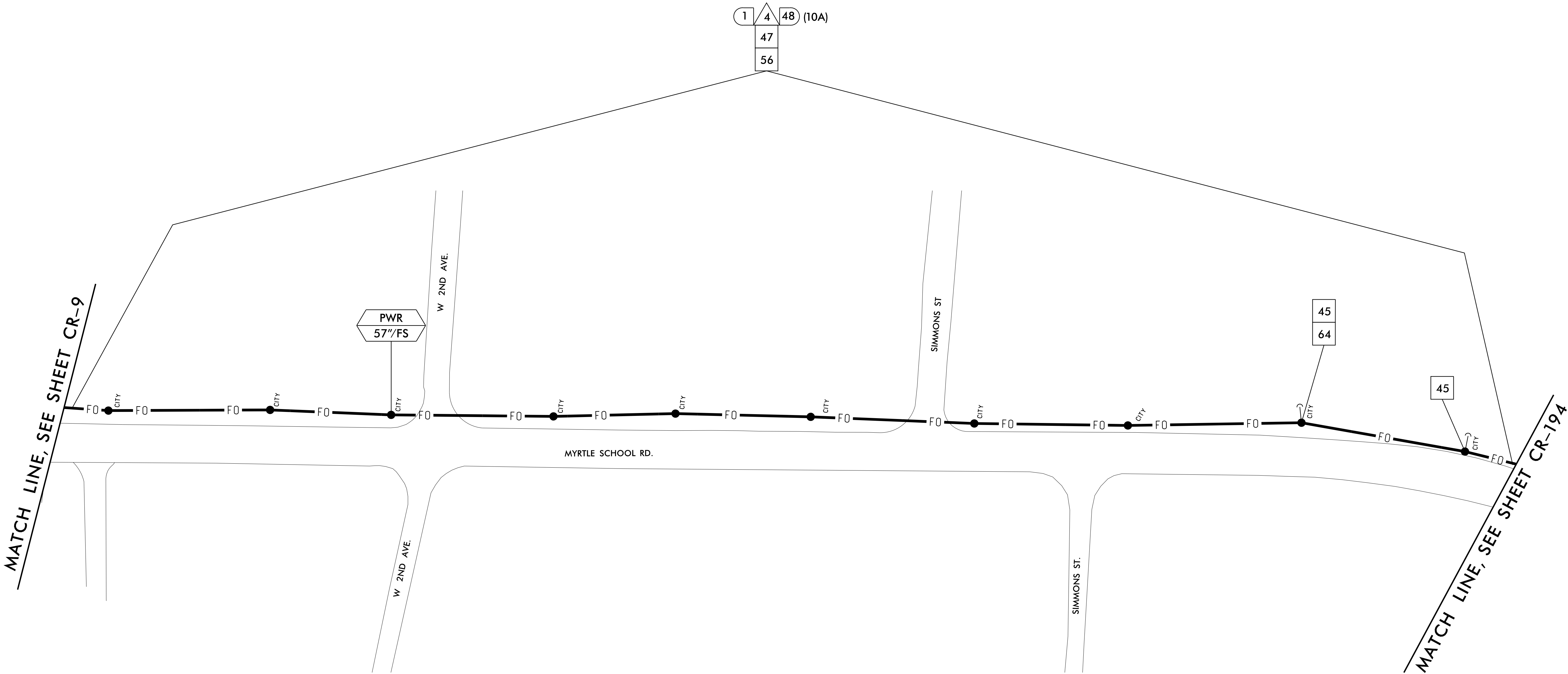
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SEAL



DocuSigned by:
Iker Van Osdel
3/18/2022

CADD Filename: _____



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

Plans Prepared For:

750 N. Greenfield Place, Gaston, NC 27529

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

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028952
MICHAEL Z. VAN OSDELL
CIVIL ENGINEER



DocuSigned by:
Igor Van Osdel
3/18/2022
CADD Filename:

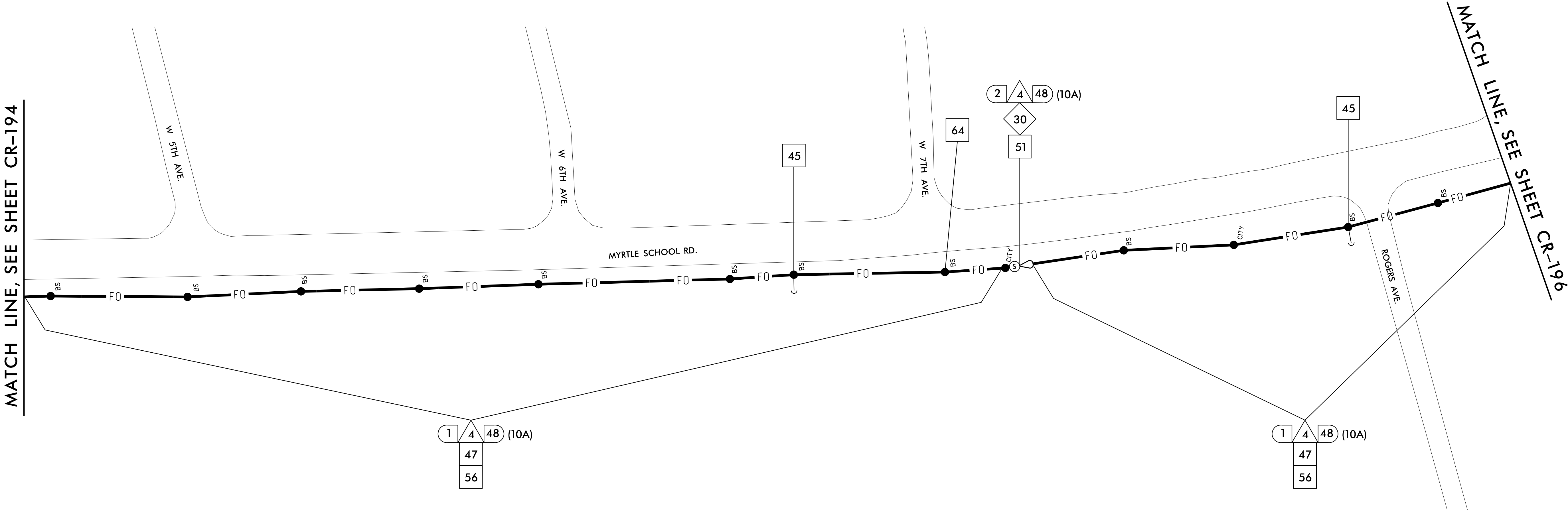


MATCH LINE, SEE SHEET CR-193

- NOTES:
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<p>Plans Prepared For:</p>  <p>750 N. Greenfield Pkwy., Garner, NC. 27529</p>	<h2 style="margin: 0;">CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</h2>	<p style="text-align: right;">SEAL</p> 																																	
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<div>2</div> <div>INSTALL ETHERNET CABLE</div>	<div>13</div> <div>INSTALL OUTER-DUCT POLYETHYLENE CONDUIT</div>	<div>24</div> <div>INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET</div>	<div>35</div> <div>INSTALL CCTV CAMERA POLE MOUNTED CABINET</div>	<div>45</div> <div>INSTALL STANDARD GUY ASSEMBLY</div>	<div>53B</div> <div>STORE 50 FEET OF EACH COMMUNICATIONS CABLE</div>	<div>65</div> <div>INSTALL HEAT SHRINK TUBING RETROFIT KIT</div>
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<div>7</div> <div>INSTALL TRACER WIRE</div>	<div>18</div> <div>INSTALL CABLE(S) IN NEW CONDUIT</div>	<div>29</div> <div>INSTALL UNDERGROUND SPLICE ENCLOSURE</div>	<div>40A</div> <div>INSTALL OVERSIZED JUNCTION BOX</div>	<div>49</div> <div>BACK PULL EXISTING COMMUNICATIONS CABLE</div>	<div>58</div> <div>INSTALL NEW ELECTRICAL SERVICE</div>	<div>70</div> <div>REMOVE EXISTING CCTV CAMERA ASSEMBLY</div>
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Plans Prepared For:

750 N. Greenfield Place, Gastonia, NC 27529

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SCALE

50

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

DIVISION 12

GASTON COUNTY

PLAN DATE: DECEMBER 2021

REVIEWED BY: K. SMITH

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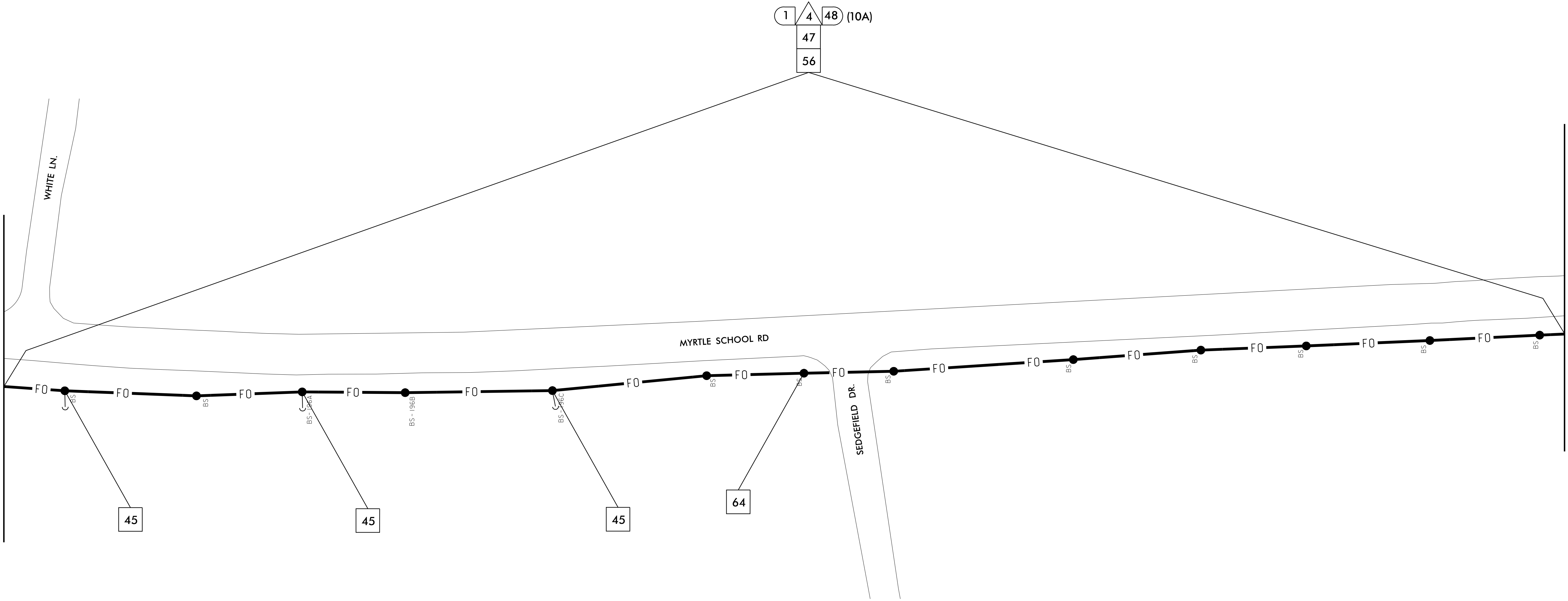
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3/17/2022 K:\RAL_TPTD.LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH195_CR.dgn

MATCH LINE, SEE SHEET CR-195

MATCH LINE, SEE SHEET CR-81



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<div>5</div> <div>EXISTING SMFO CABLE</div>	<div>16</div> <div>BORE AND JACK CONDUIT</div>	<div>27</div> <div>INSTALL NEW FIBER OPTIC TRANSCEIVER</div>	<div>38</div> <div>INSTALL CCTV CAMERA METAL POLE AND FOUNDATION</div>	<div>48A</div> <div>REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE</div>	<div>56</div> <div>LASH CABLE(S) TO NEW MESSENGER CABLE</div>	<div>68</div> <div>INSTALL CABINET BASE ADAPTER</div>
<div>6</div> <div>INSTALL FIBER OPTIC DROP CABLE</div>	<div>17</div> <div>INSTALL CABLE(S) IN EXISTING CONDUIT</div>	<div>28</div> <div>INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET</div>	<div>39</div> <div>INSTALL JUNCTION BOX</div>	<div>48B</div> <div>REMOVE EXISTING COMMUNICATIONS CABLE</div>	<div>57</div> <div>MODIFY EXISTING ELECTRICAL SERVICE</div>	<div>69</div> <div>REMOVE EXISTING SIGNAL CABINET AND CONTROLLER</div>
<div>7</div> <div>INSTALL TRACER WIRE</div>	<div>18</div> <div>INSTALL CABLE(S) IN NEW CONDUIT</div>	<div>29</div> <div>INSTALL UNDERGROUND SPLICE ENCLOSURE</div>	<div>40A</div> <div>INSTALL OVERSIZED JUNCTION BOX</div>	<div>49</div> <div>BACK PULL EXISTING COMMUNICATIONS CABLE</div>	<div>58</div> <div>INSTALL NEW ELECTRICAL SERVICE</div>	<div>70</div> <div>REMOVE EXISTING CCTV CAMERA ASSEMBLY</div>
<div>8</div> <div>TRENCH</div>	<div>19</div> <div>INSTALL CABLE(S) IN EXISTING RISER</div>	<div>30</div> <div>INSTALL AERIAL SPLICE ENCLOSURE</div>	<div>40B</div> <div>INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")</div>	<div>50</div> <div>INSTALL CELL MODEM AND ANTENNA</div>	<div>59</div> <div>INSTALL NEW EQUIPMENT CABINET DISCONNECT</div>	<div>71</div> <div>REMOVE EXISTING CCTV CAMERA CABINET</div>
<div>9</div> <div>INSTALL PVC CONDUIT</div>	<div>20</div> <div>INSTALL CABLE(S) IN NEW RISER</div>	<div>31</div> <div>MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE</div>	<div>41</div> <div>REMOVE EXISTING JUNCTION BOX</div>	<div>51</div> <div>INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE</div>	<div>60</div> <div>BOND TRACER WIRE TO EQUIPMENT GROUND BUS</div>	<div>72</div> <div>REMOVE CABINET FOUNDATION</div>
<div>10</div> <div>INSTALL RIGID, GALVANIZED STEEL CONDUIT</div>	<div>21</div> <div>INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS</div>	<div>32</div> <div>INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER</div>	<div>42</div> <div>INSTALL WOOD POLE</div>	<div>52A</div> <div>INSTALL DELINEATOR MARKER</div>	<div>61</div> <div>DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS</div>	<div>73</div> <div>MODIFY EXISTING CABINET FOUNDATION</div>
<div>11</div> <div>INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD</div>	<div>22</div> <div>INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)</div>	<div>33</div> <div>INSTALL BASE MOUNTED 332 SIGNAL CABINET WITH EXTENDER AND CONTROLLER</div>	<div>43</div> <div>REMOVE EXISTING WOOD POLE</div>	<div>52B</div> <div>INSTALL JUNCTION BOX MARKER</div>	<div>62</div> <div>BOND RISER AND MESSENGER CABLE TO POLE GROUND</div>	<div>74</div> <div>REMOVE EXISTING WIRELESS SYSTEM</div>
					<div>63</div> <div>BOND RISER TO POLE GROUND</div>	<div>75</div> <div>INSTALL WIRELESS ETHERNET SYSTEM</div>

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:

750 N. Greenfield Place, Gastonia, NC 27529

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SCALE

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

DIVISION 12GASTON COUNTY

PLAN DATE: DECEMBER 2021REVIEWED BY: K. SMITH

PREPARED BY: S. BUTLERREVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

Seal of Kimley-Horn, Inc., North Carolina Professional Engineer, No. 028952

DocuSigned by: Iger Van Osdel3/18/2022

CADD Filename:

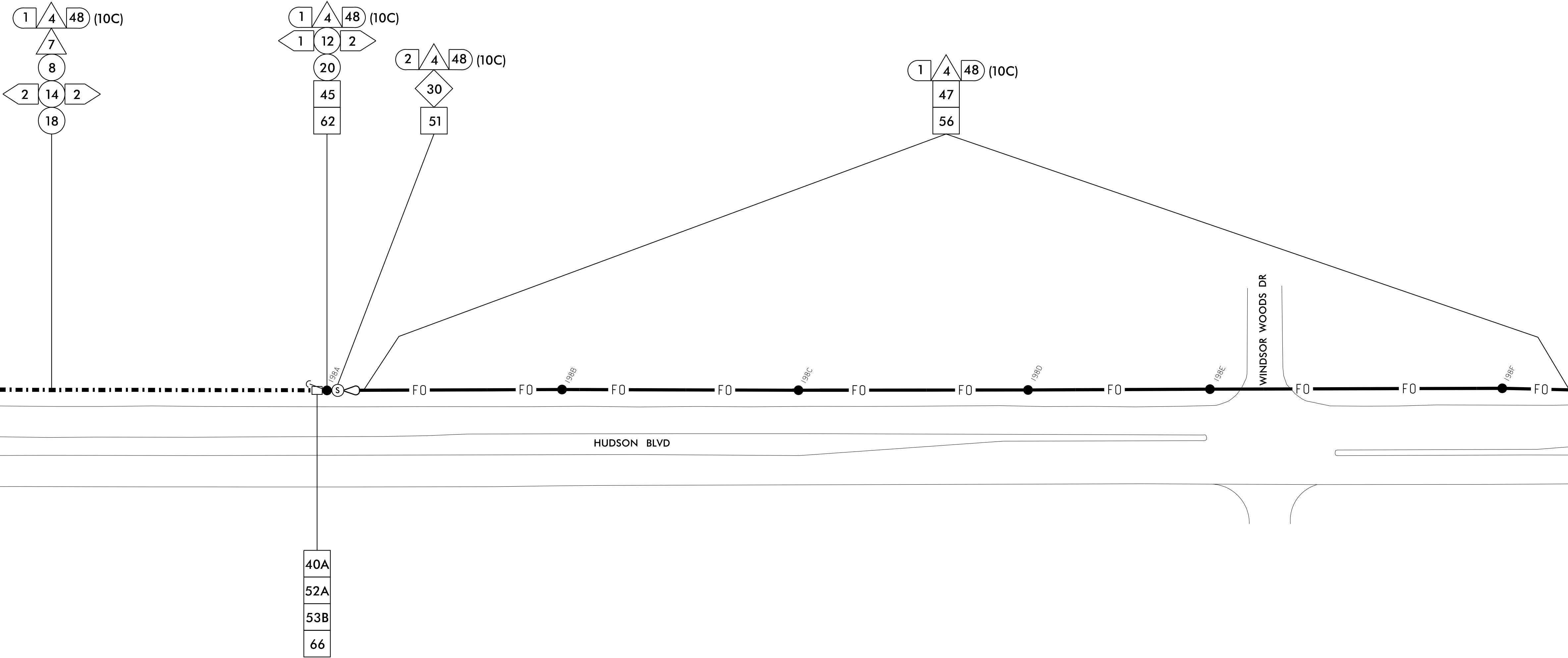


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DocuSigned by:
Inger Van Osdel 3/18/2022
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SIGNATURE DATE
CADD File name:

MATCH LINE, SEE SHEET CR-197

MATCH LINE, SEE SHEET CR-199



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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Plans Prepared For:
CITY OF GASTONIA
Department of Transportation
750 N. Greenfield Place, Gaston, NC 27529

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

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

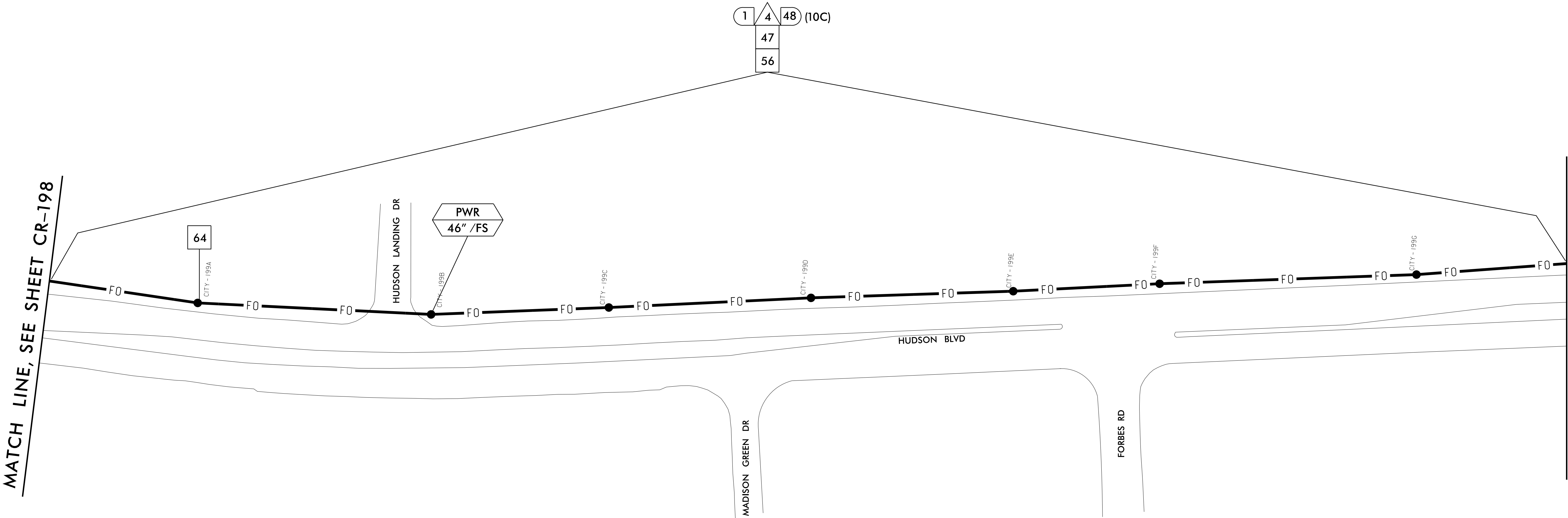
PREPARED BY: S. BUTLER REVIEWED BY: I. VAN OSDELL

REVISIONS INIT. DATE

0 SCALE 50

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028952
MICHAEL Z. VAN OSDELL
ENGINEER

DocuSigned by:
Igor Van Osdel
3/18/2022
CADD Filename:



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Plans Prepared For:

750 N. Greenfield Place, Garner, NC 27529

0 SCALE 50

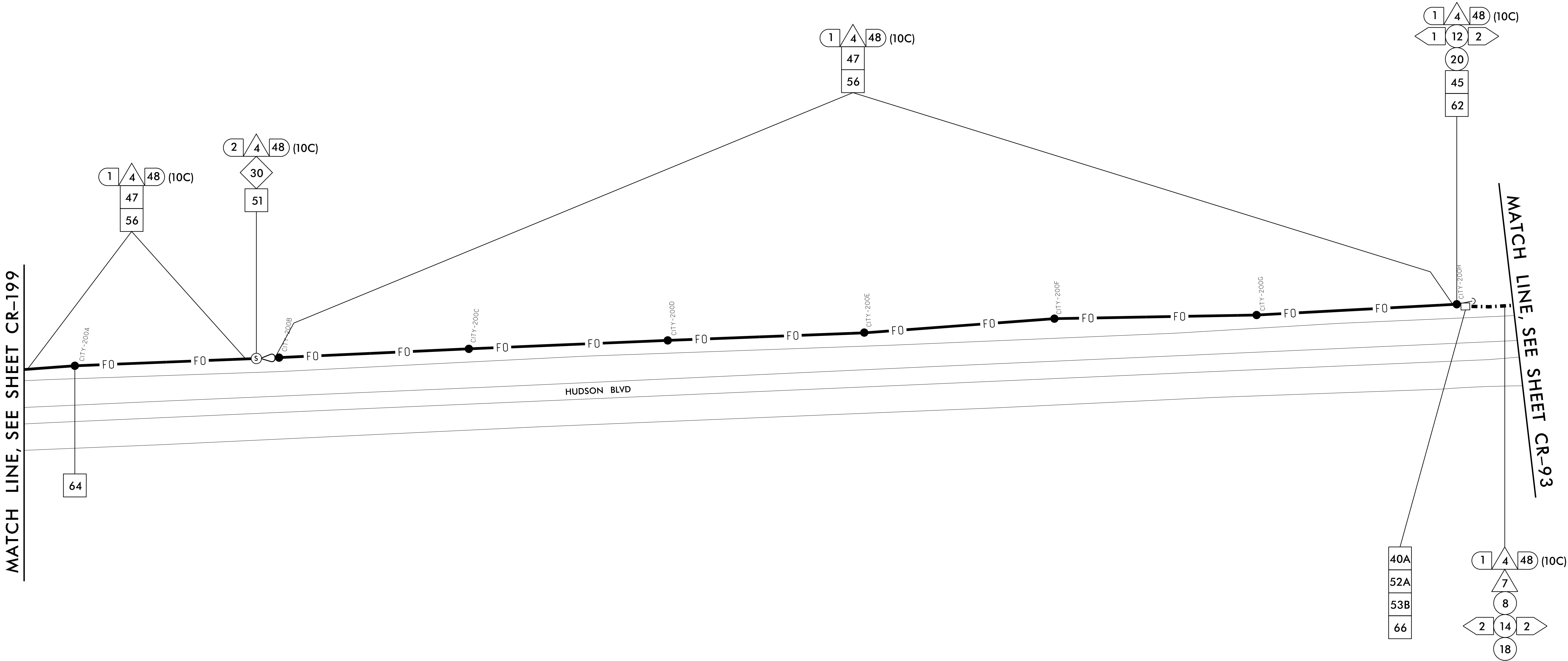
CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12 GASTON COUNTY	
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

Seal of Kimley-Horn, Inc., North Carolina Professional Engineer, License #028952.

DocuSigned by: *Igor Van OsdeLL* 3/18/2022

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Plans Prepared For:

750 N. Greenfield Place, Garner, NC 27529

0 SCALE 50

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	

SEAL

DocuSigned by: *Imper Van Osdel* 3/18/2022
CADD File name: