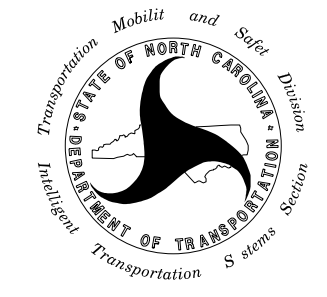


1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	44	INSTALL AERIAL GUY ASSEMBLY	53A	STORE 20 FEET OF COMMUNICATIONS CABLE	64	BOND MESSENGER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

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

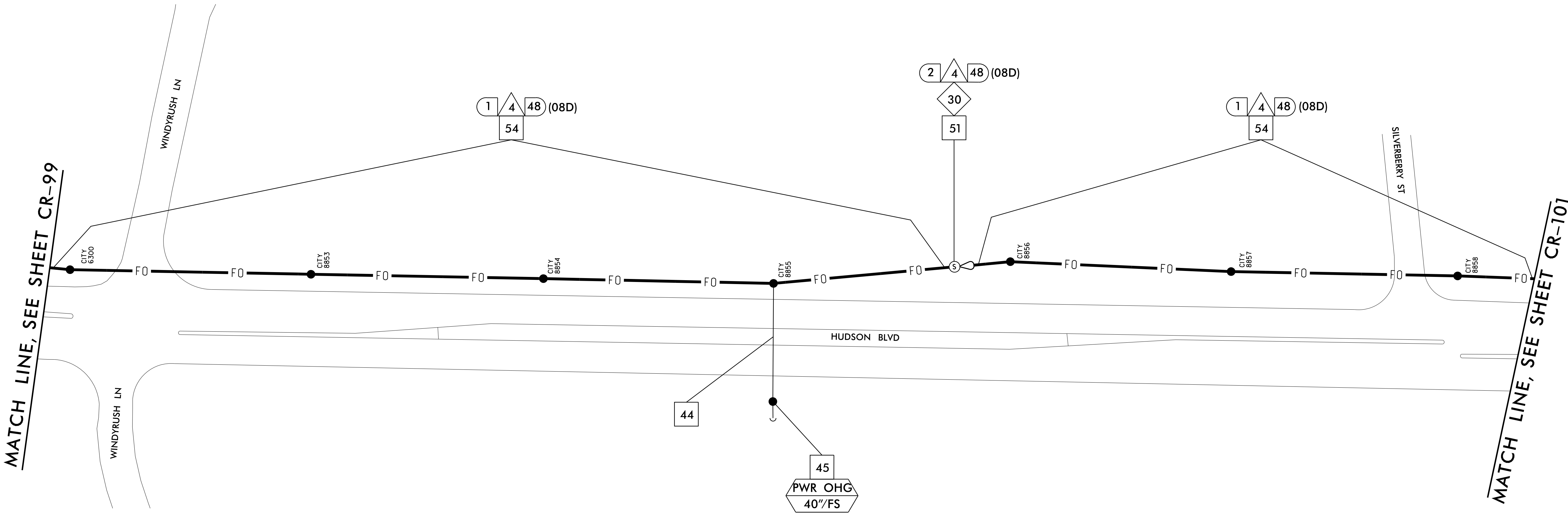
REVISIONS	INIT.	DATE

Seal of Kimley-Horn, Inc.

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

DocuSigned by:  
Igor Van Osdel  
3/18/2022

CADD Filename:




3/17/2022 K:\RAL\_TPTD\_ITS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH100\_CR.dgn

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Plans Prepared For:



750 N. Greenfield Place, Gastonia, NC 27529

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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

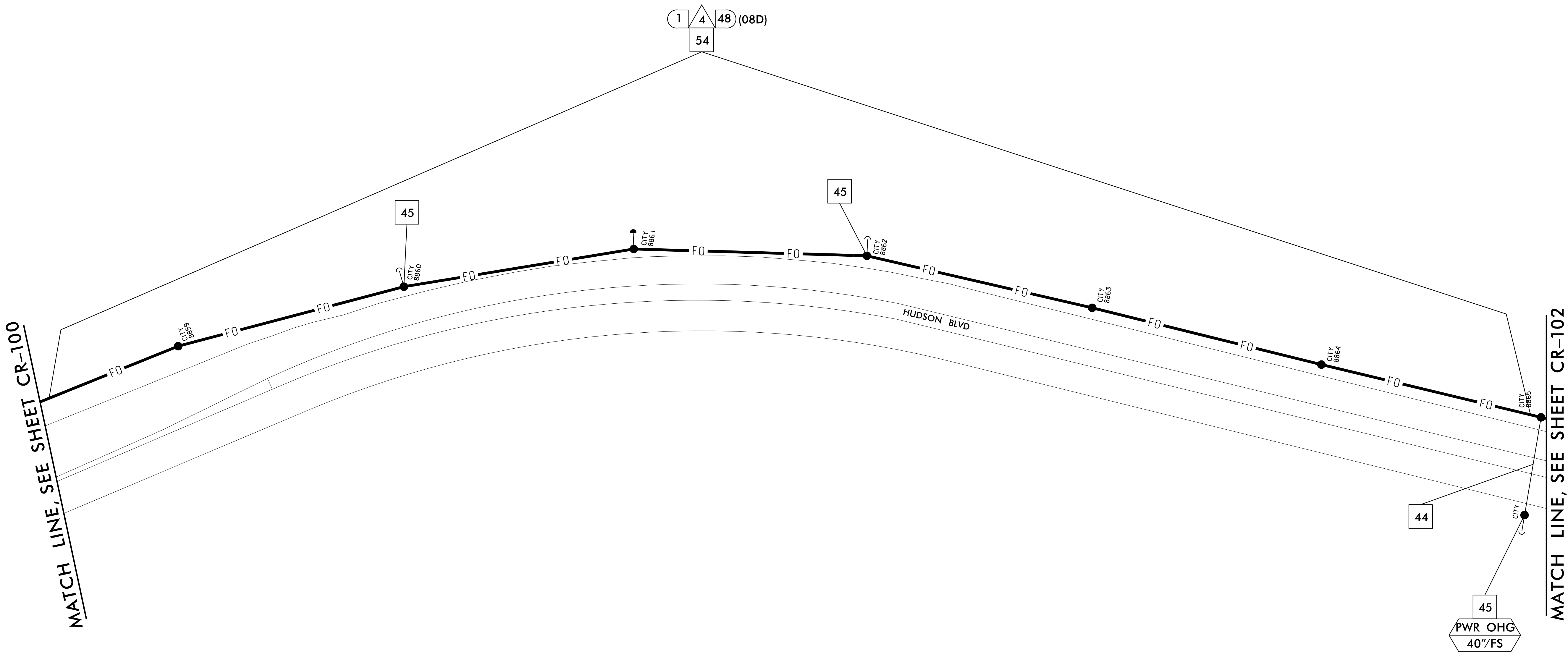
REVISIONS	INIT.	DATE

Seal: NORTH CAROLINA PROFESSIONAL SEAL 028952

Signature: *Iger Van Osdel* 3/18/2022

CADD Filename:





<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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<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>
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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>
<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>
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- NOTES:
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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 12GASTON COUNTY

PLAN DATE: DECEMBER 2021REVIEWED BY: K. SMITH

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

REVISIONS	INIT.	DATE

050SCALE

DocuSigned by:  
Igor Van Osdel  
SEAL  
028952  
NORTH CAROLINA PROFESSIONAL ENGINEER  
MICHAEL Z. VAN OSDEL

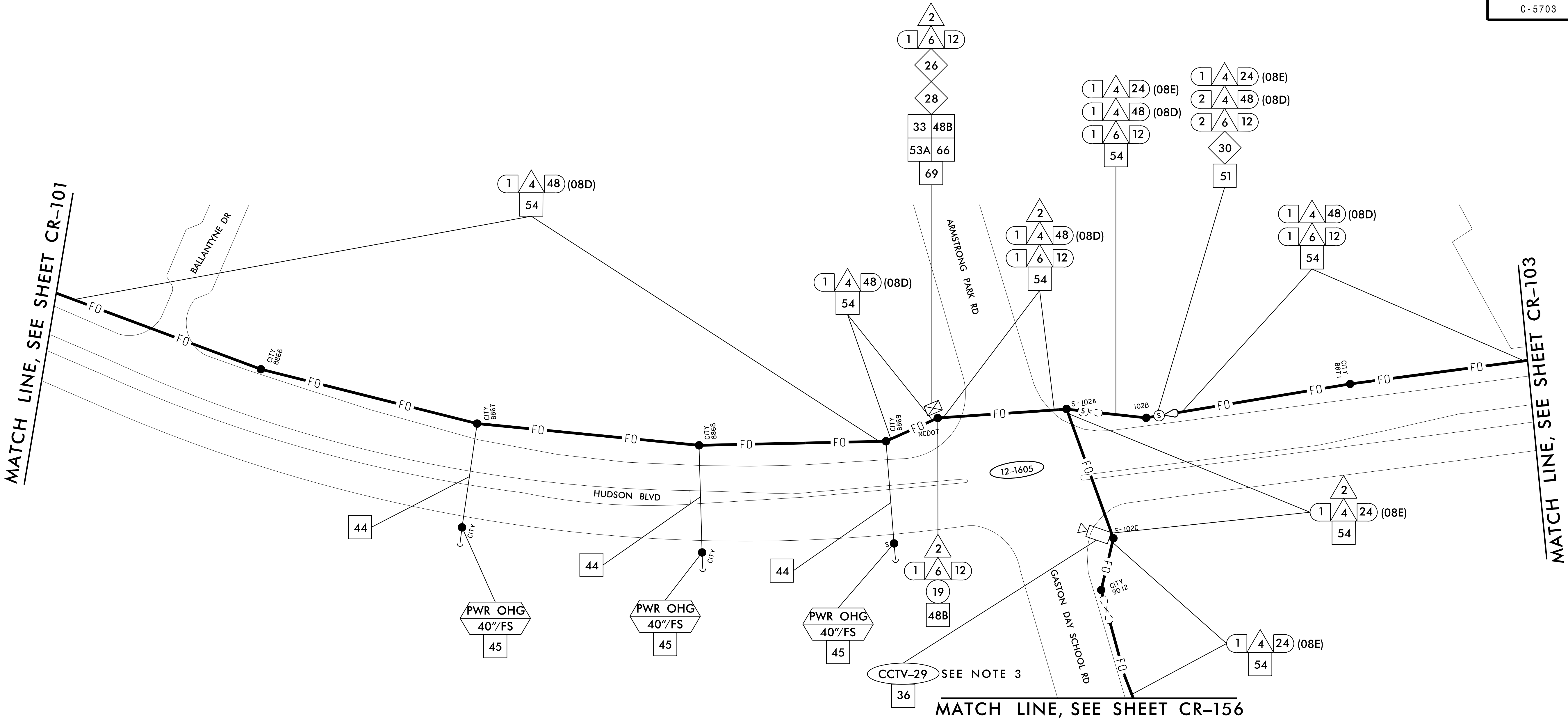
3/18/2022DATE  
CADD Filename:

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



MATCH LINE, SEE SHEET CR-101

MATCH LINE, SEE SHEET CR-103

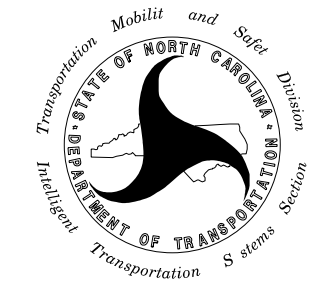


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3. INSTALL CCTV CAMERA 12" BELOW TOP OF POLE. SEE ITS-13.

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

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Seal of Kimley-Horn

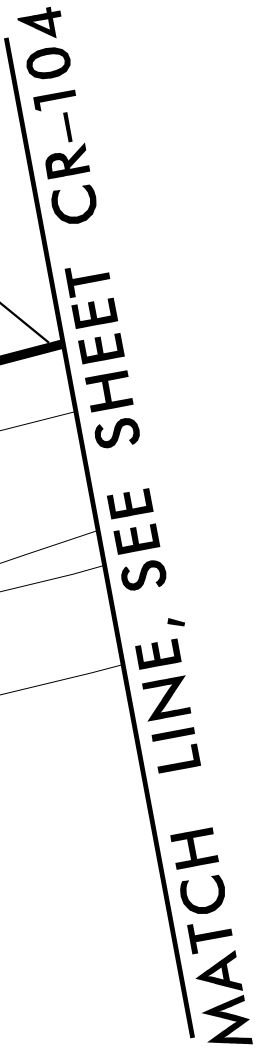
NC License #F-0102  
421 Fayetteville St., Suite 600  
Raleigh, NC 27601  
Tel: (919) 677-2000  
Fax: (919) 677-2050

Seal of North Carolina Professional Engineer

DocuSigned by: Iger Van Osdel  
3/18/2022

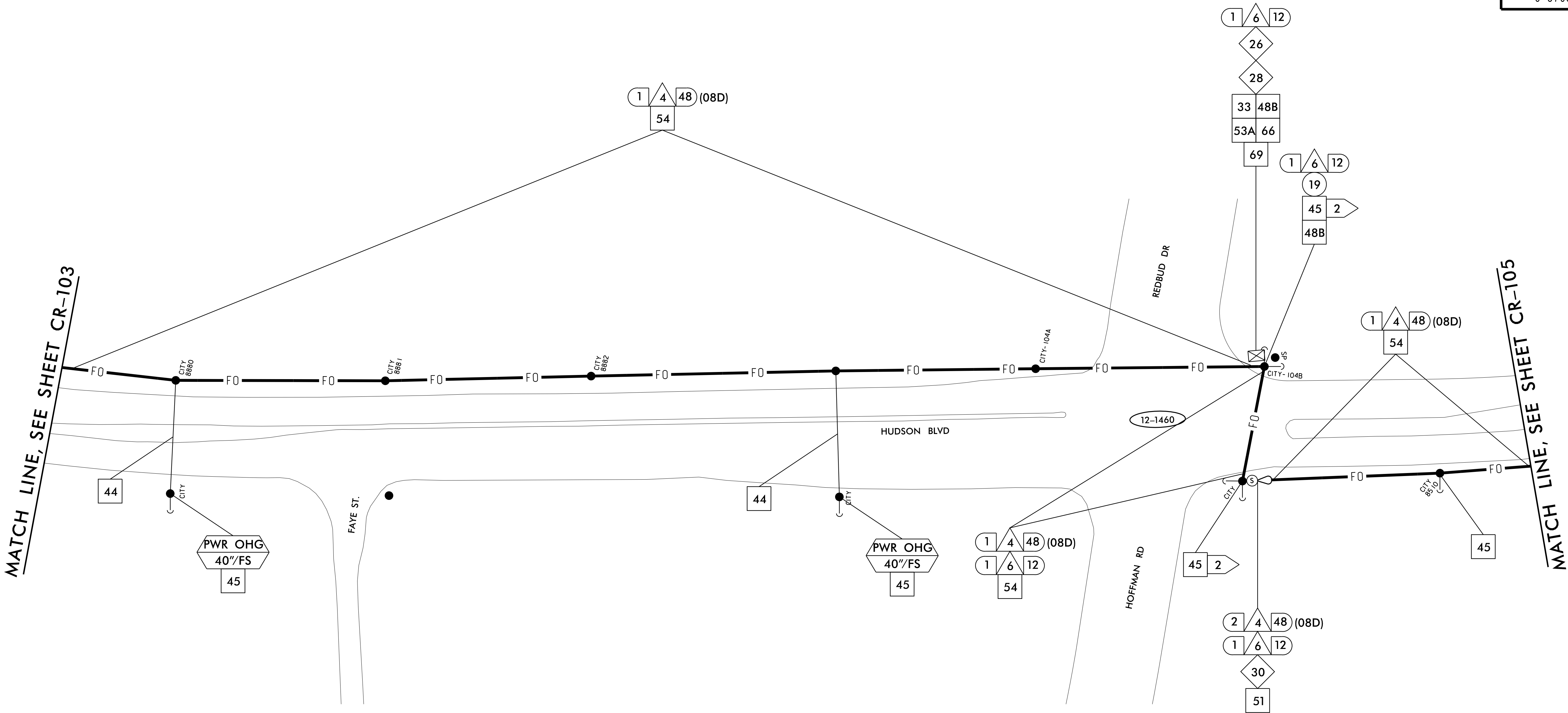
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Inger Van Osdel 3/18/2022  
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CADD Filename:



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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
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
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NOTES:  
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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

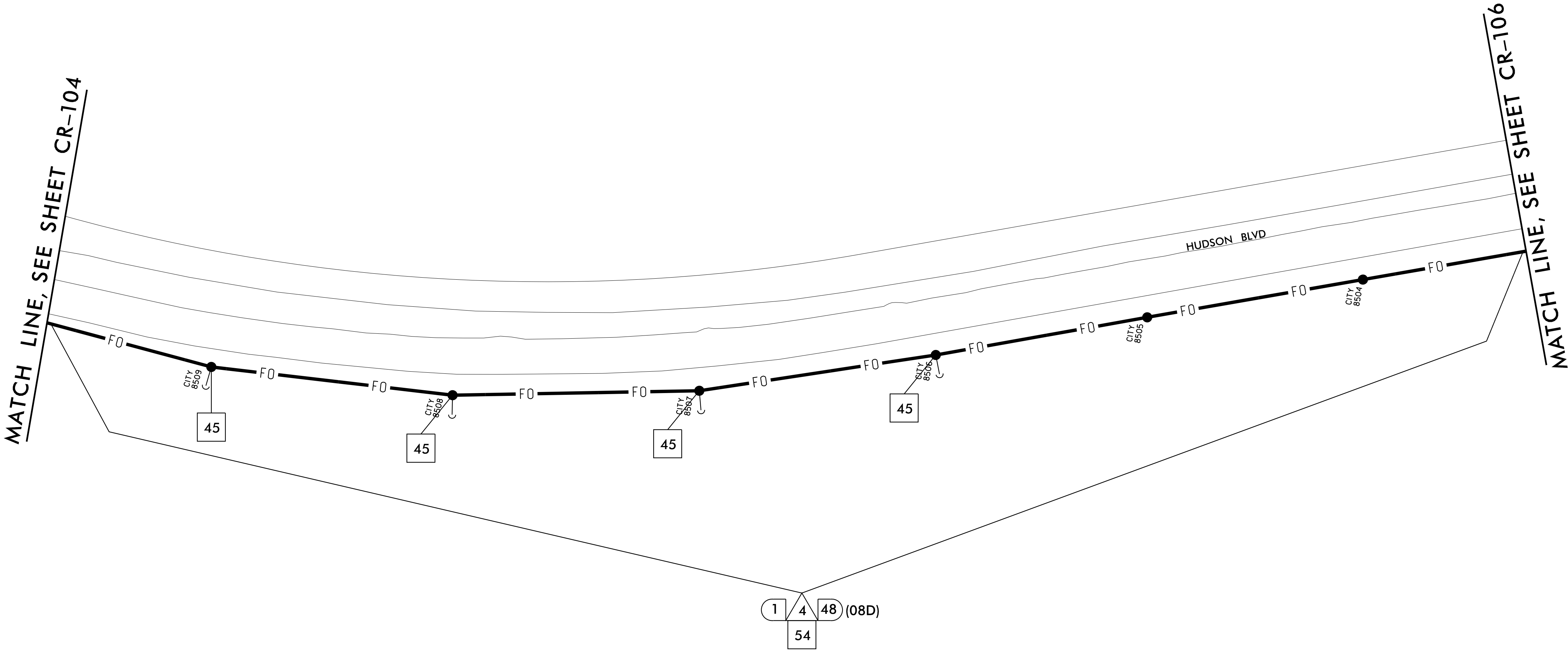
Seal of Kimley-Horn, Inc.

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

DocuSigned by:  
Igor Van Osdel  
3/18/2022

CADD Filename:

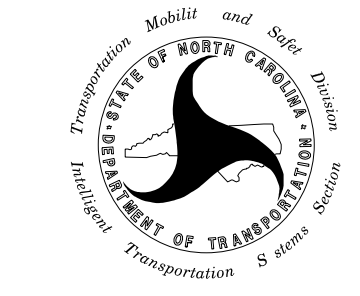




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Plans Prepared For:




750 N. Greenfield Place • Garner, NC 27529

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SCALE

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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

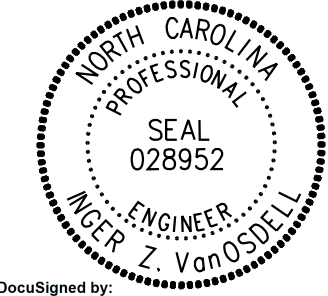
REVIEWED BY: I. VAN OSDELL

REVISIONS

INIT.

DATE

SEAL



Kimley-Horn

NC License #F-0102

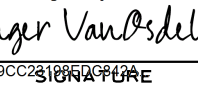
421 Fayetteville St., Suite 600

Raleigh, NC 27601

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DocuSigned by:



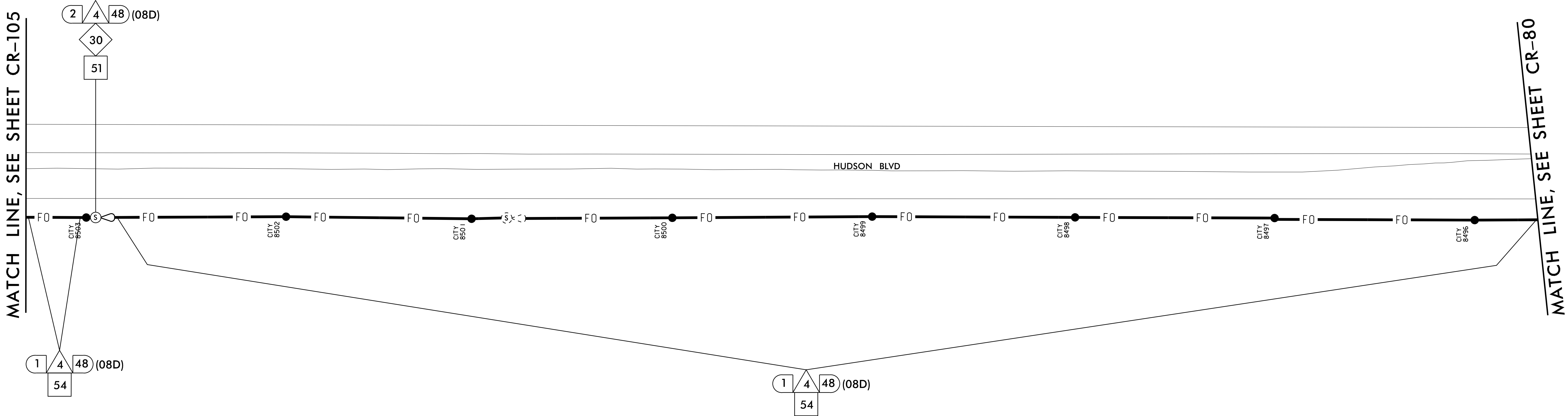
Iger Van Osdel

3/18/2022

DATE

CADD Filename:

3/17/2022 K:\RAL\_TPTD.LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH105\_CR.dgn



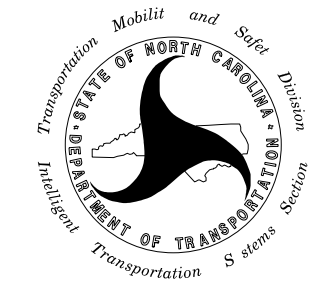
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Plans Prepared For:



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

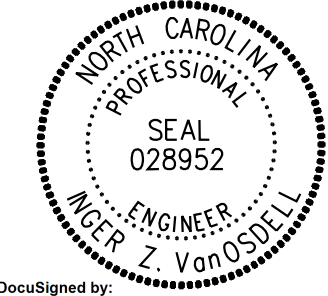
DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH


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

REVISIONS	INIT.	DATE

SEAL

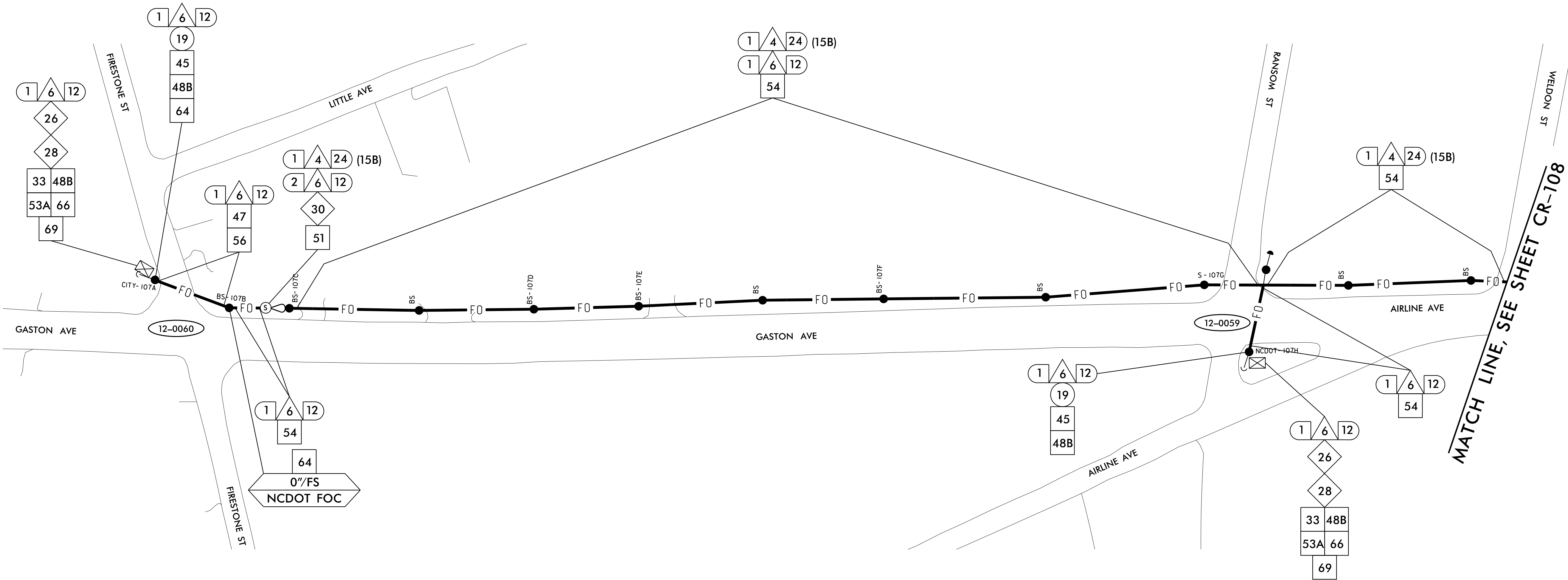


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DocuSigned by:  
  
3/18/2022

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MATCH LINE, SEE SHEET CR-108

3/17/2022  
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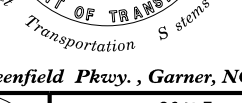


Seal of Kimley-Horn, Inc., North Carolina Professional Engineer, License #028952

DocuSigned by: Inger Van Osdel 3/18/2022

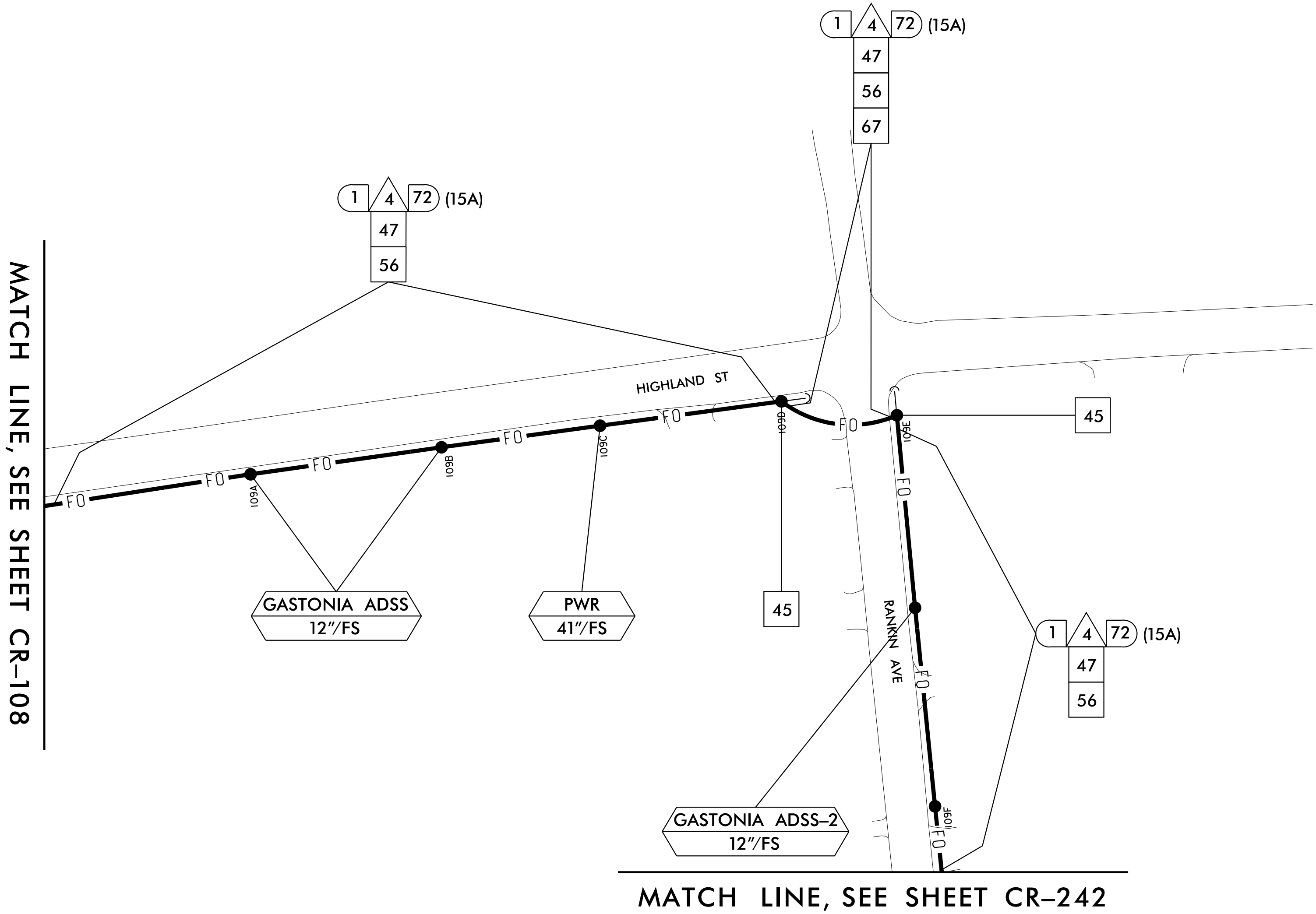
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<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>ATTACH NEW COMMUNICATIONS CABLE TO FRONT SIDE OF POLE AT 40 INCHES BELOW POWER PRESENCE UNLESS OTHERWISE NOTED.</li> <li>MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED.</li> </ol>	 <p>NC License #F-0102 421 Fayetteville St., Suite 600 Raleigh, NC 27601 Tel: (919) 677-2000 Fax: (919) 677-2050</p>						
<p>Plans Prepared For:</p>  <p>750 N. Greenfield Plaza • Garner, NC 27529</p>	<h2>CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</h2> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>DIVISION 12</th> <th>GASTON COUNTY</th> </tr> <tr> <td>PLAN DATE: DECEMBER 2021</td> <td>REVIEWED BY: K. SMITH</td> </tr> <tr> <td>PREPARED BY: S. BUTLER</td> <td>REVIEWED BY: I. VAN OSDELL</td> </tr> </table>	DIVISION 12	GASTON COUNTY	PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH	PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
DIVISION 12	GASTON COUNTY						
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH						
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL						
<p>SCALE</p> 	<p>SEAL</p> 						
	<p>Signed by: <i>Ian Van Osdeall</i>      3/18/2022</p> <p> SIGNATURE                  DATE</p> <p>CADD File Name:</p>						





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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Plans Prepared For:

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

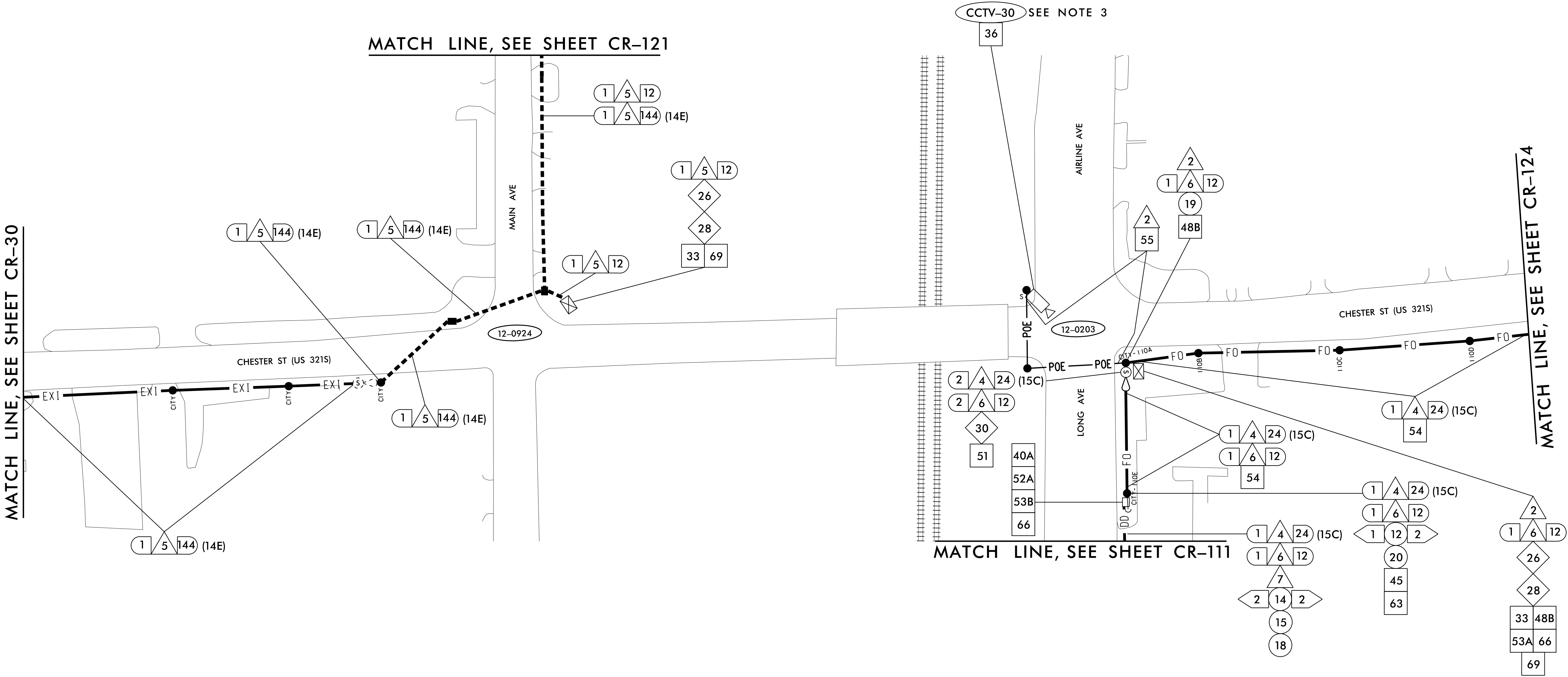
Seal of the State of North Carolina, Professional Engineer, Michael Z. Von Osdel, License # 028952.

DocuSigned by: *Ingvar Van Osdel* 3/18/2022

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

CADD Filename: \_\_\_\_\_

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3. INSTALL CCTV CAMERA 12" BELOW SIGNAL SPAN. SEE ITS-13.

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

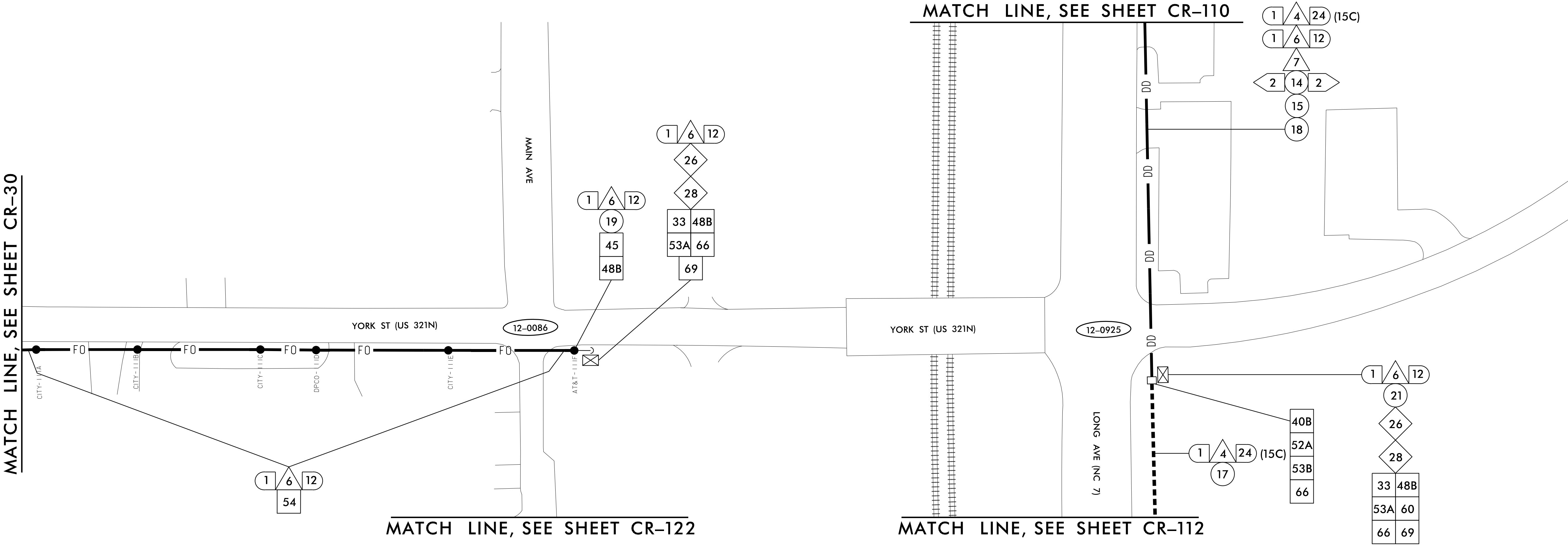
PLAN DATE: DECEMBER 2021  
PREPARED BY: S. BUTLER  
REVIEWED BY: K. SMITH  
REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

SEAL

DocuSigned by:  
Iger Van Osdel  
3/18/2022  
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Plans Prepared For:



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
Division 12  
750 N. Greenfield Place, Garner, NC 27529

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

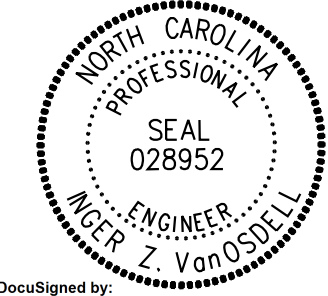
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INIT. DATE

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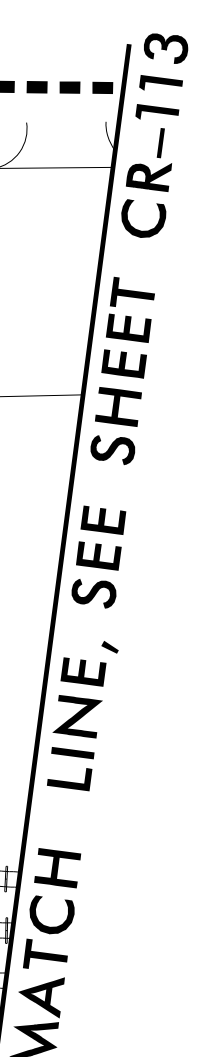
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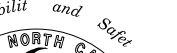




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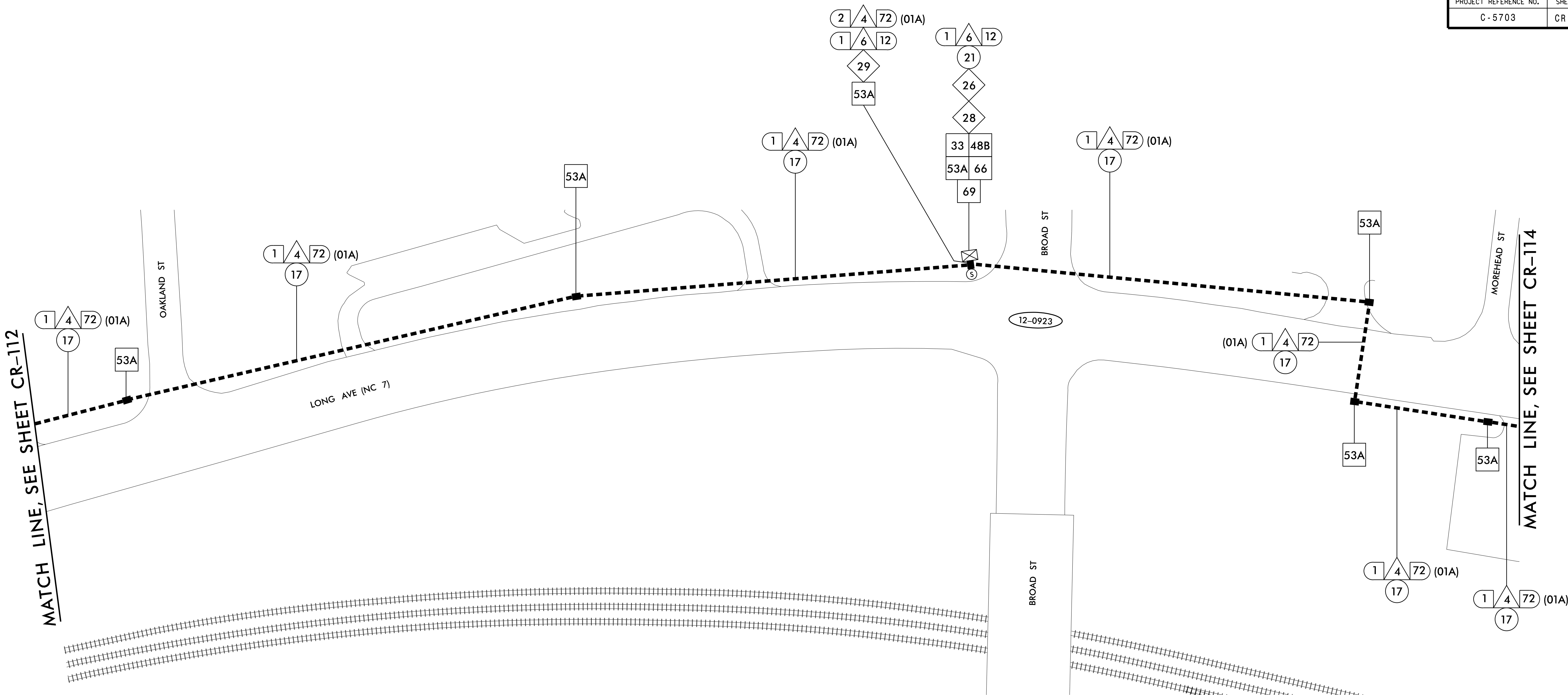
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<p><b>Plans Prepared For:</b></p>  <p>Transportation Mobility and Safety Division          DEPARTMENT OF TRANSPORTATION          Transportation Planning Section</p> <p>759 N. Greenfield Pkwy., Garner, NC 27529</p>	<p><b>CITY OF GASTONIA COMPUTERIZED          SIGNAL SYSTEM          COMMUNICATIONS CABLE AND          CONDUIT ROUTING PLAN</b></p>	<p style="text-align: center;">SEAL</p> 																
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<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:  
CITY OF GASTONIA  
Department of Transportation  
750 N. Greenfield Place, Gastonia, NC 27529

0 50  
SCALE

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

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

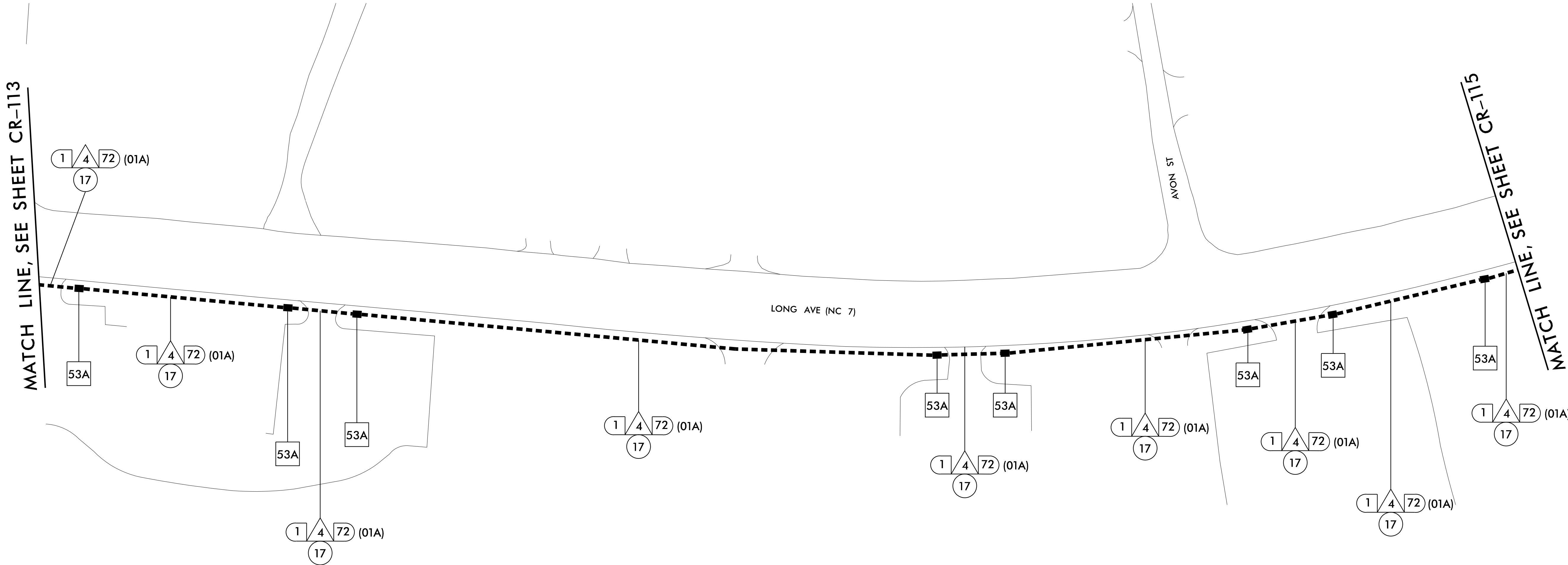
GASTON COUNTY  
REVIEWED BY: K. SMITH  
REVIEWED BY: I. VAN OSDELL

REVISIONS	INIT.	DATE

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

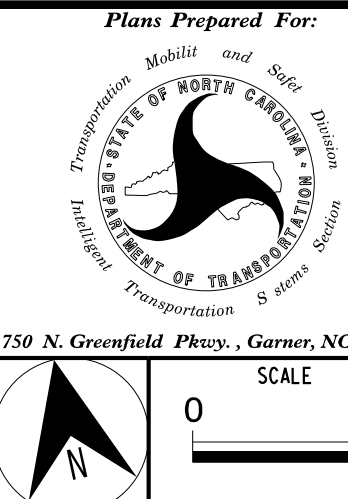
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Inger Van OsdeLL  
3/18/2022  
DATE  
CADD Filename:

3/17/2022  
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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
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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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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:  
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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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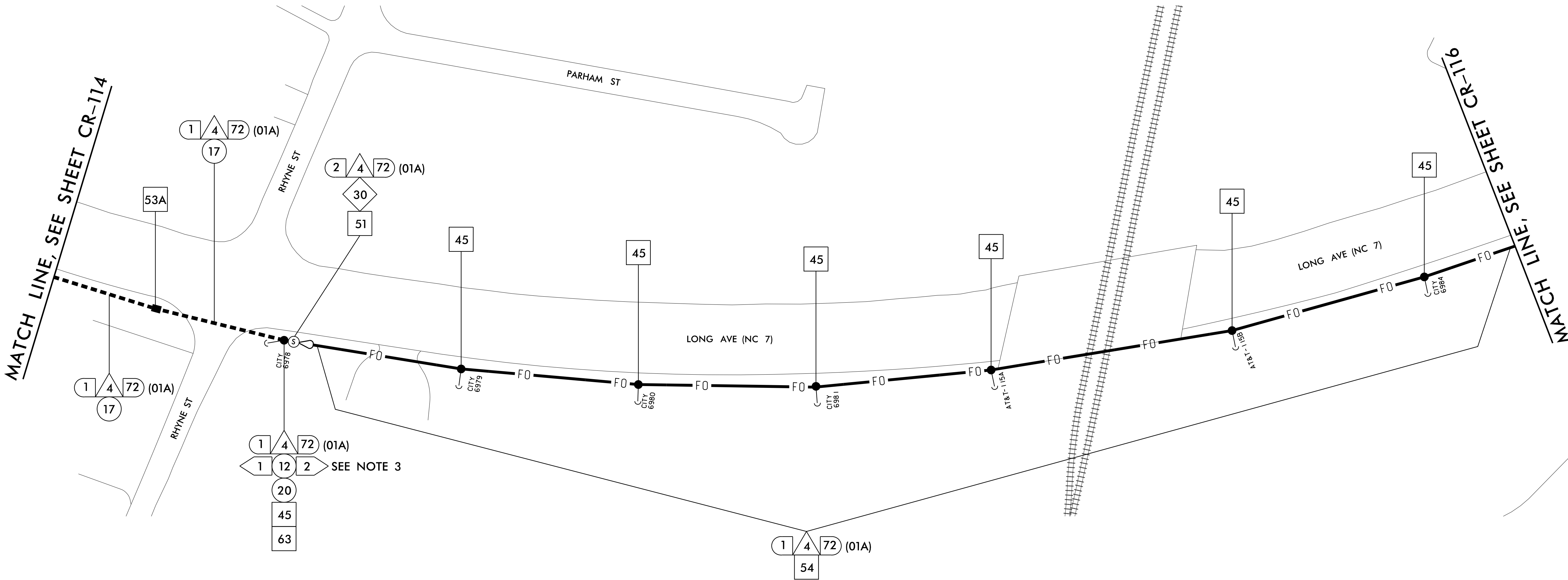
SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 028952  
MICHAEL Z. VAN OSDELL

DocuSigned by:  
Igor Van OsdeLL  
3/18/2022

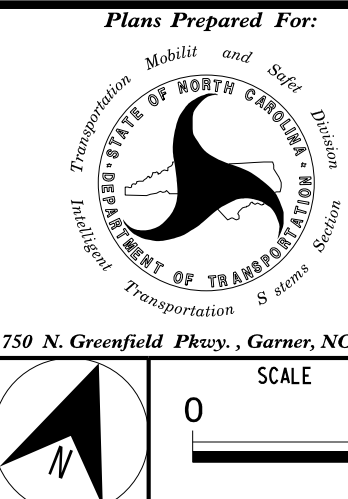
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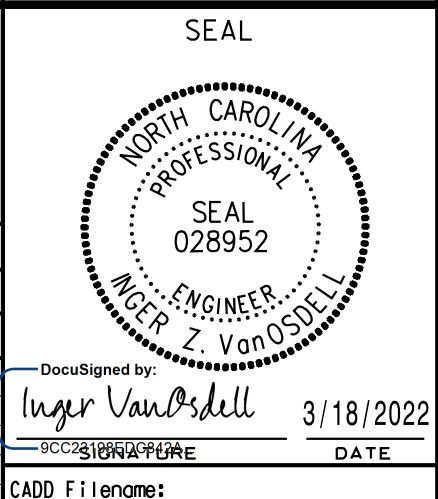
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9	INSTALL PVC CONDUIT	20	INSTALL CABLE(S) IN NEW RISER	31	MODIFY EXISTING INTERCONNECT CENTER / SPLICE ENCLOSURE	41	REMOVE EXISTING JUNCTION BOX	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	60	BOND TRACER WIRE TO EQUIPMENT GROUND BUS	72	REMOVE CABINET FOUNDATION
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										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.
  3. CONNECT NEW RISER TO EXISTING SPARE CONDUIT STUB-OUT.



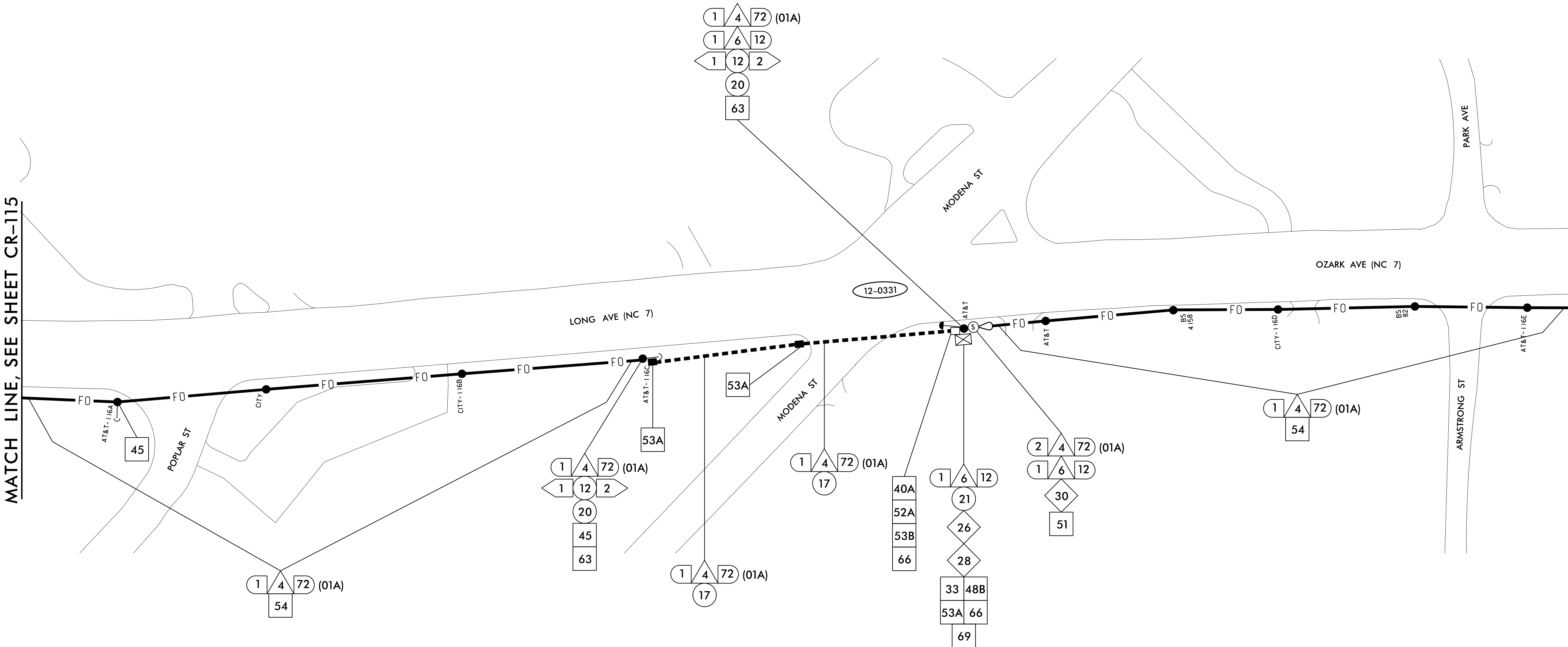
CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN	
DIVISION 12 GASTON COUNTY	
PLAN DATE: DECEMBER 2021	REVIEWED BY: K. SMITH
PREPARED BY: S. BUTLER	REVIEWED BY: I. VAN OSDELL
REVISIONS	INIT. DATE

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Fax: (919) 677-2050



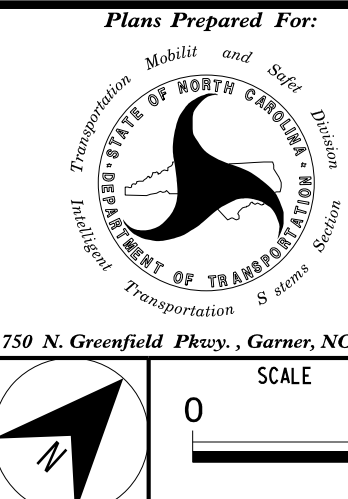
MATCH LINE, SEE SHEET CR-115

MATCH LINE, SEE SHEET CR-117



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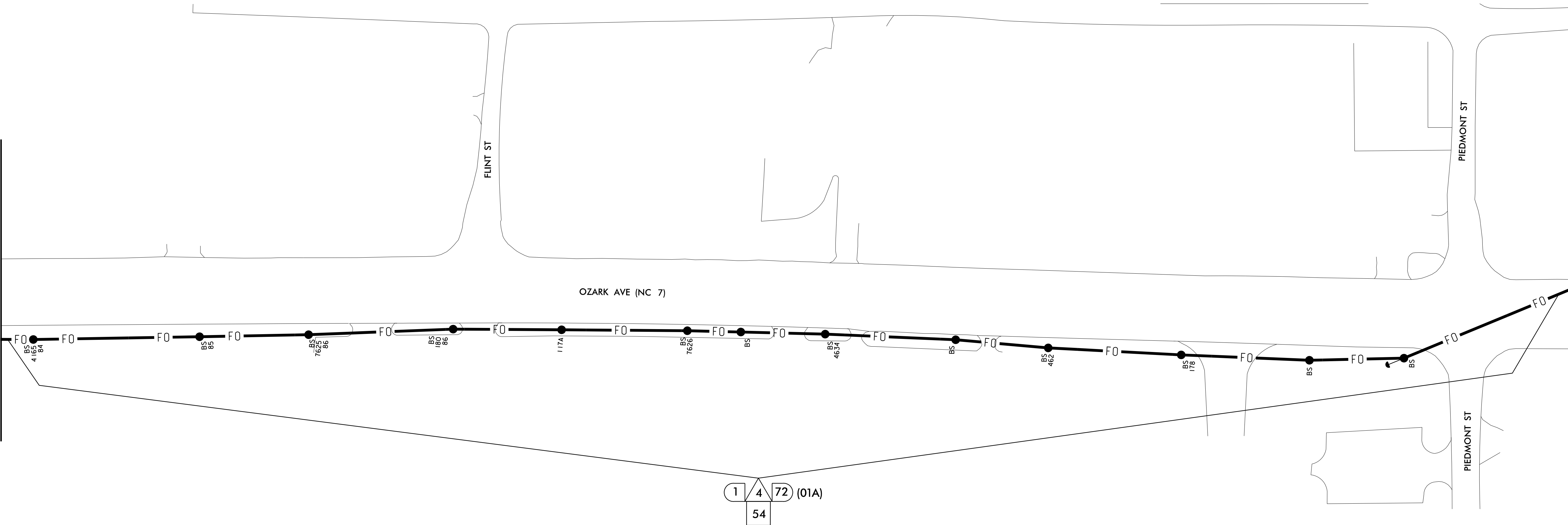
SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 028952  
MICHAEL Z. VAN OSDELL

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Inger Van OsdeLL  
3/18/2022  
CADD Filename:



MATCH LINE, SEE SHEET CR-116

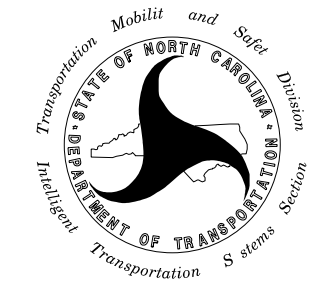
MATCH LINE, SEE SHEET CR-118



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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
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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

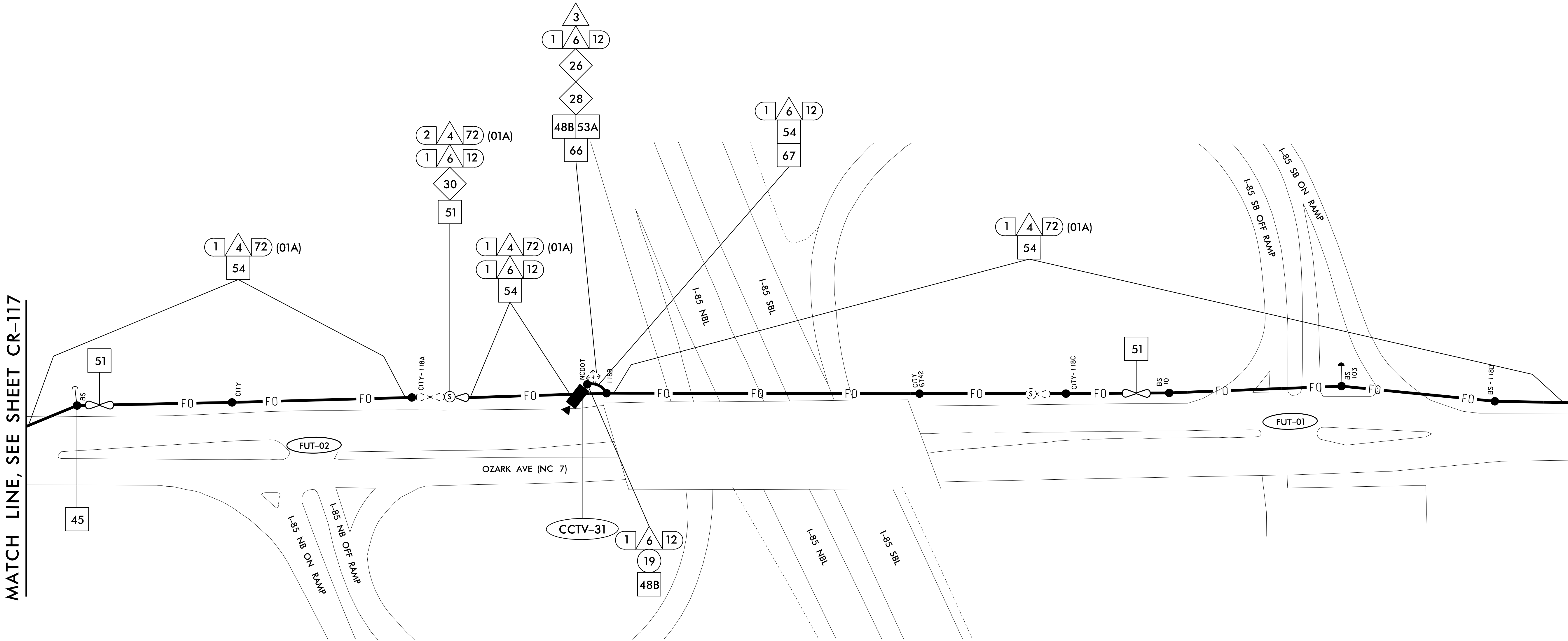
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Seal of North Carolina Professional Engineer

DocuSigned by: *Ingvar Van Osdel*  
3/18/2022


CADD Filename:



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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 MOLDBLE DUCT SEAL
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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

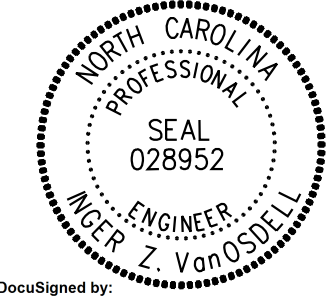
DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021 REVIEWED BY: K. SMITH

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

REVISIONS	INIT.	DATE

SEAL

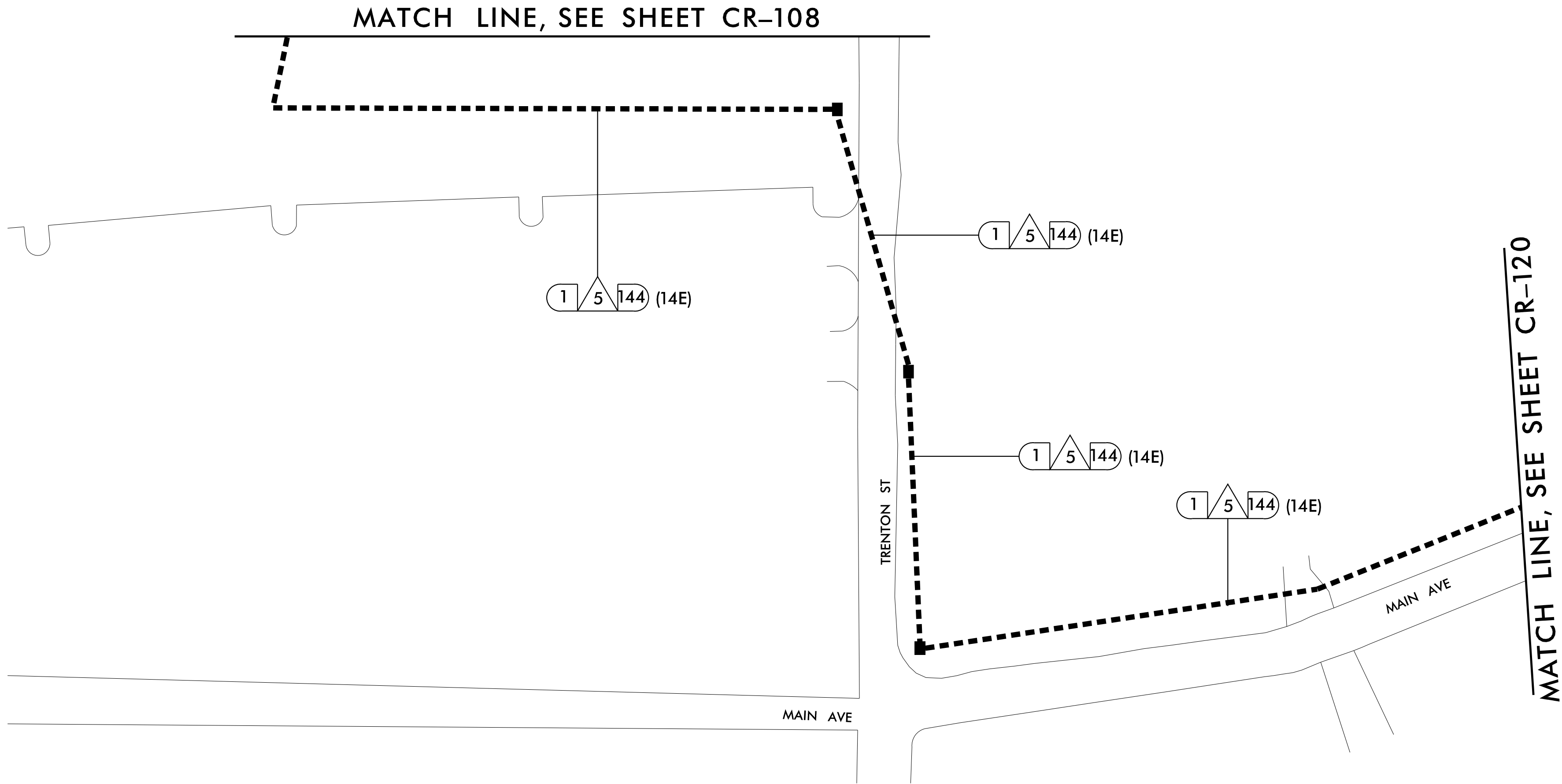


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DocuSigned by:  
Igor Van Osdel  
3/18/2022

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

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

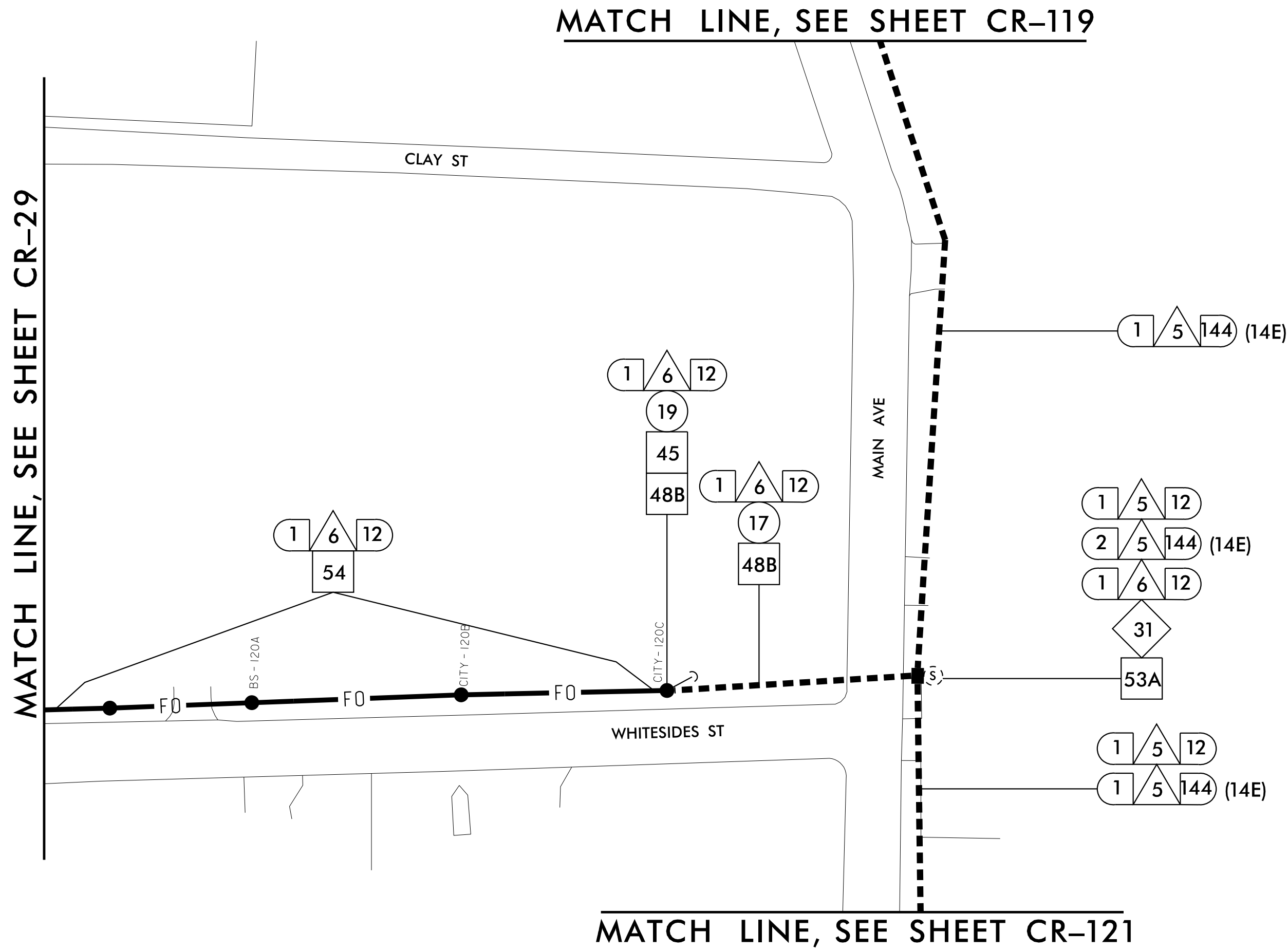
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DocuSigned by: Iger Van Osdel 3/18/2022

Signature: Iger Van Osdel Date: 3/18/2022

CADD Filename:

3/17/2022 K:\RAL\_TPTD\_LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH119\_CR.dgn



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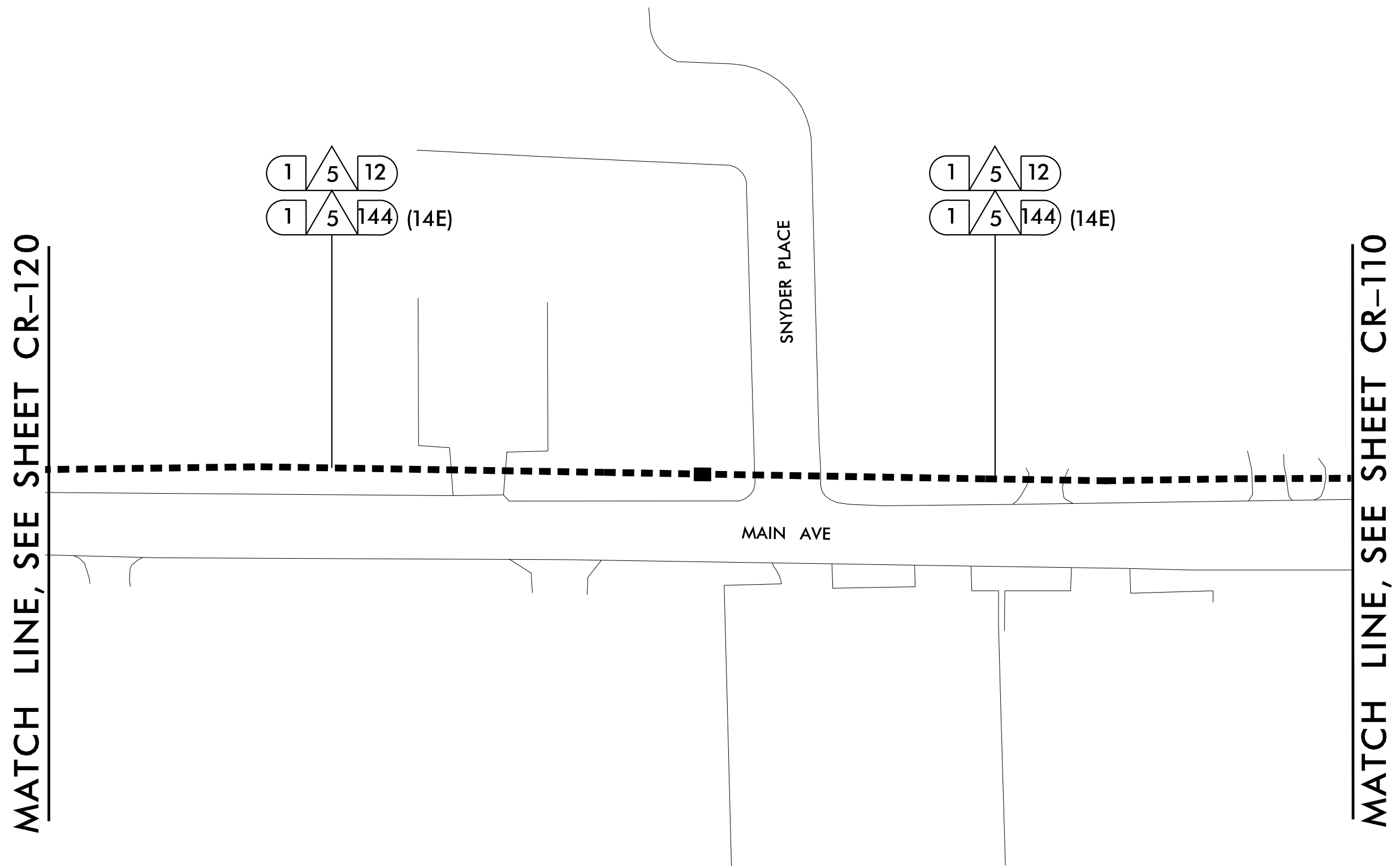
**Kimley»Horn**

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	<b>CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</b>		SEAL 	
	DIVISION 12 PLAN DATE: DECEMBER 2021 PREPARED BY: S. BUTLER		GASTON COUNTY REVIEWED BY: K. SMITH REVIEWED BY: I. VAN OSDELL	
750 N. Greenfield Place, Gaston, NC 27529		SCALE 0 50		DocuSigned by: Iger VanOsdell 3/18/2022

3/17/2022  
K:\RAL\_TPTD\_LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH120\_CR.dgn





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750 N. Greenfield Place, Gastonia, NC 27529

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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

SCALE 0 50

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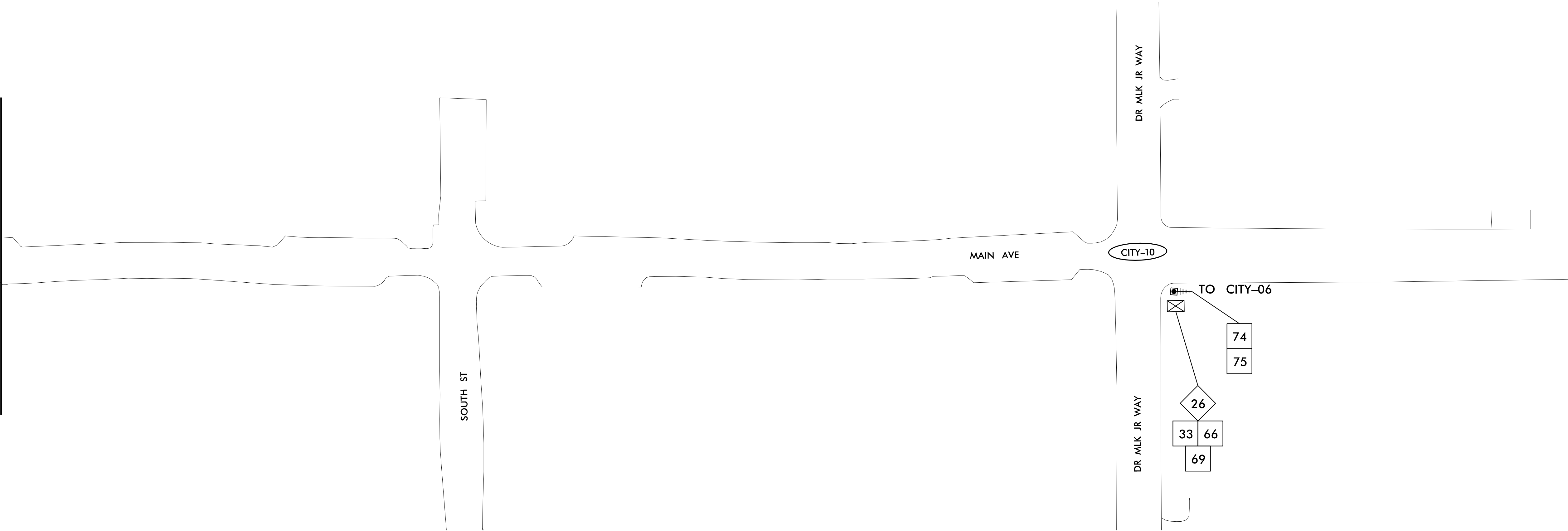
Seal of Kimley-Horn and Associates, Inc., Professional Engineer, No. 028952.

DocuSigned by: Iger Van Osdel 3/18/2022

CADD Filename:

MATCH LINE, SEE SHEET CR-111

MATCH LINE, SEE SHEET CR-123



<div>1</div> INSTALL COAX CABLE	<div>12</div> INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	<div>23</div> INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	<div>34</div> INSTALL CABINET FOUNDATION	<div>44</div> INSTALL AERIAL GUY ASSEMBLY	<div>53A</div> STORE 20 FEET OF COMMUNICATIONS CABLE	<div>64</div> BOND MESSENGER CABLE TO POLE GROUND
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<div>9</div> INSTALL PVC CONDUIT	<div>20</div> INSTALL CABLE(S) IN NEW RISER	<div>31</div> MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE	<div>41</div> REMOVE EXISTING JUNCTION BOX	<div>51</div> INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	<div>60</div> BOND TRACER WIRE TO EQUIPMENT GROUND BUS	<div>72</div> REMOVE CABINET FOUNDATION
<div>10</div> INSTALL RIGID, GALVANIZED STEEL CONDUIT	<div>21</div> INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS	<div>32</div> INSTALL POLE MOUNTED 336S SIGNAL CABINET AND CONTROLLER	<div>42</div> INSTALL WOOD POLE	<div>52A</div> INSTALL DELINEATOR MARKER	<div>61</div> DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS	<div>73</div> MODIFY EXISTING 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.
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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 12GASTON COUNTY

PLAN DATE: DECEMBER 2021REVIEWED BY: K. SMITH

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

REVISIONS	INIT.	DATE

DocuSigned by:  
Iger Van Osdel  
3/18/2022

CADD Filename:

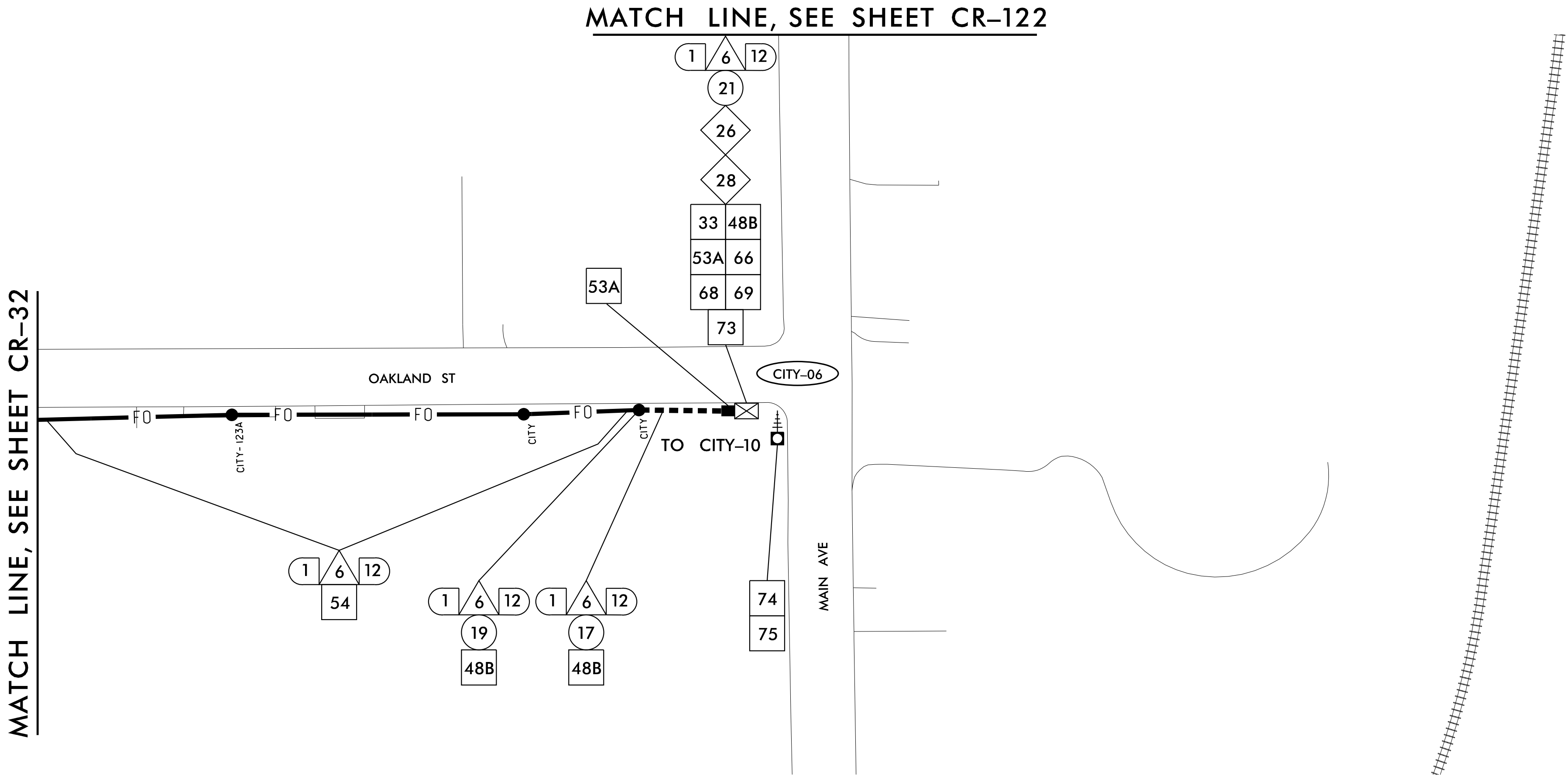
NC License #F-0102  
421 Fayetteville St., Suite 600  
Raleigh, NC 27601  
Tel: (919) 677-2000  
Fax: (919) 677-2050

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028952

INCE. Z. VAN OSDEL





<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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<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 MOLDABLE 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>
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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  
PREPARED BY: S. BUTLER  
REVIEWED BY: K. SMITH  
REVIEWED BY: I. VAN OSDELL

REVISIONS  
INIT. DATE

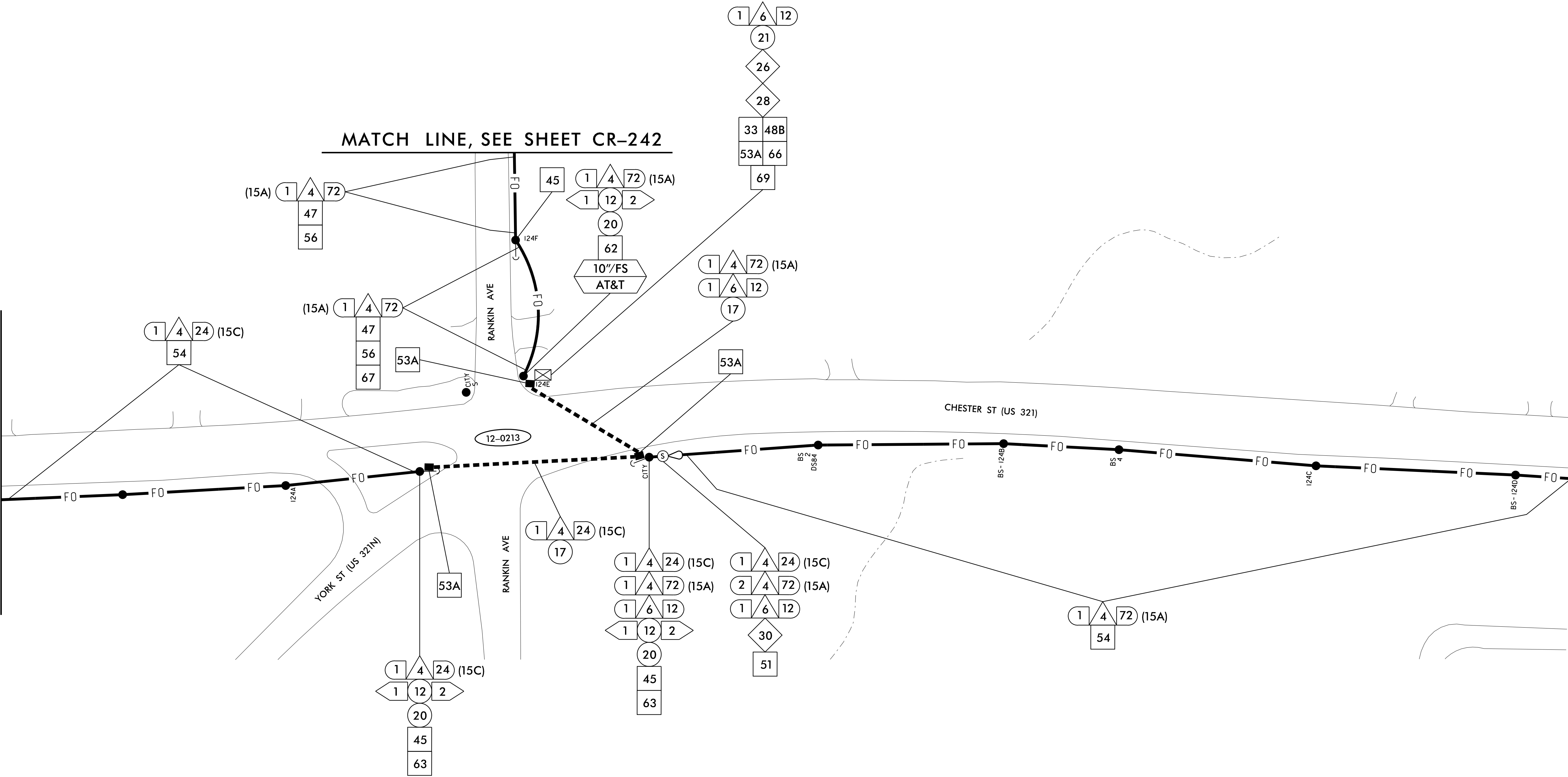
Seal of the State of North Carolina  
Professional Engineer  
Kimley-Horn  
Seal 028952  
Date 3/18/2022

DocuSigned by:  
Iger Van Osdel  
CADD Filename:

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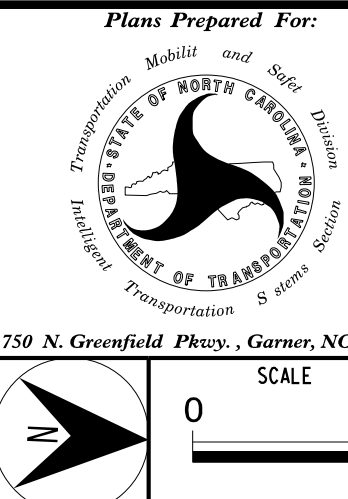
MATCH LINE, SEE SHEET CR-110

MATCH LINE, SEE SHEET CR-125



<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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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

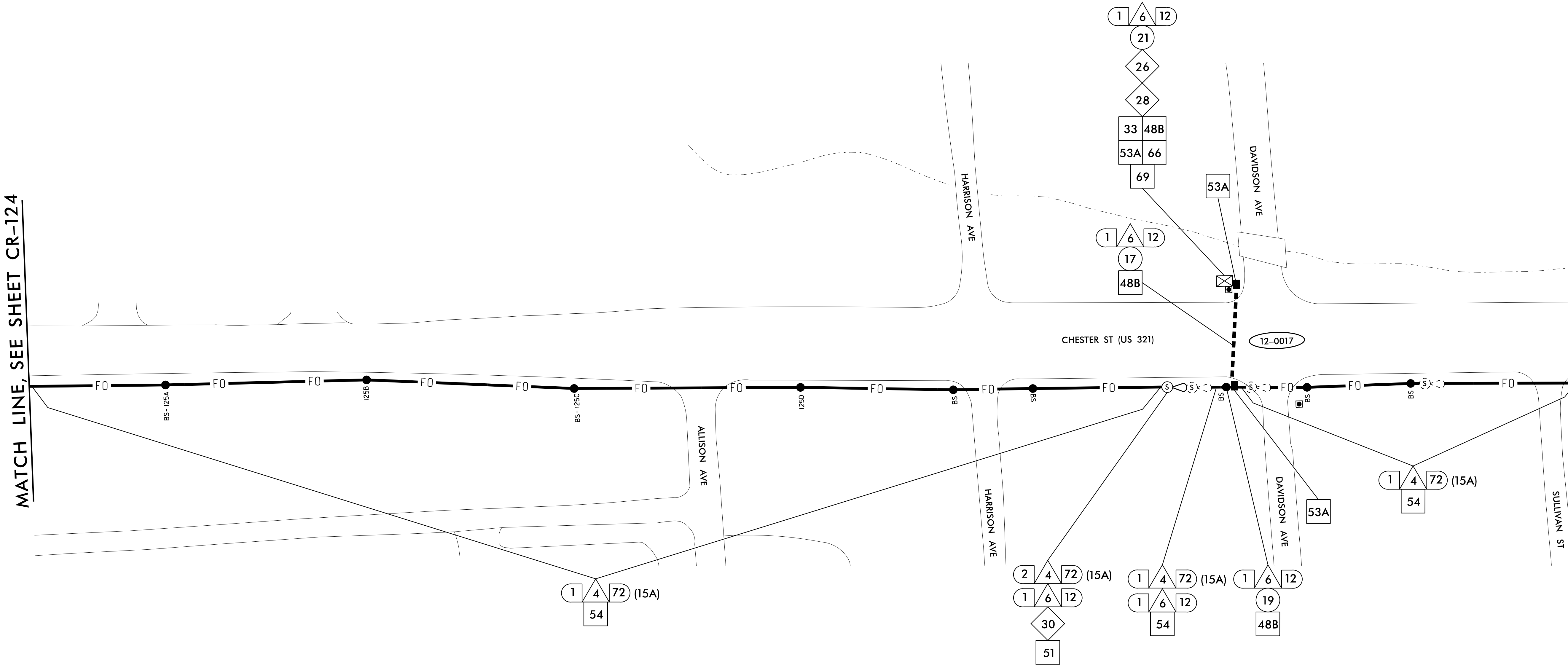
**Kimley»Horn**  
NC License #F-0102  
421 Fayetteville St., Suite 600  
Raleigh, NC 27601  
Tel: (919) 677-2000  
Fax: (919) 677-2050





MATCH LINE, SEE SHEET CR-124

MATCH LINE, SEE SHEET CR-126




3/17/2022  
K:\RAL\_TPTD\_ITS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH125\_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

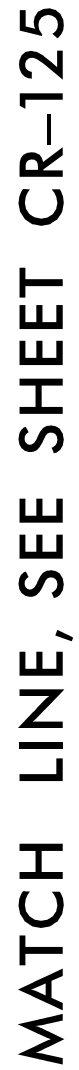
REVISIONS	INIT.	DATE

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DocuSigned by: *Inger Van Osdel* 3/18/2022

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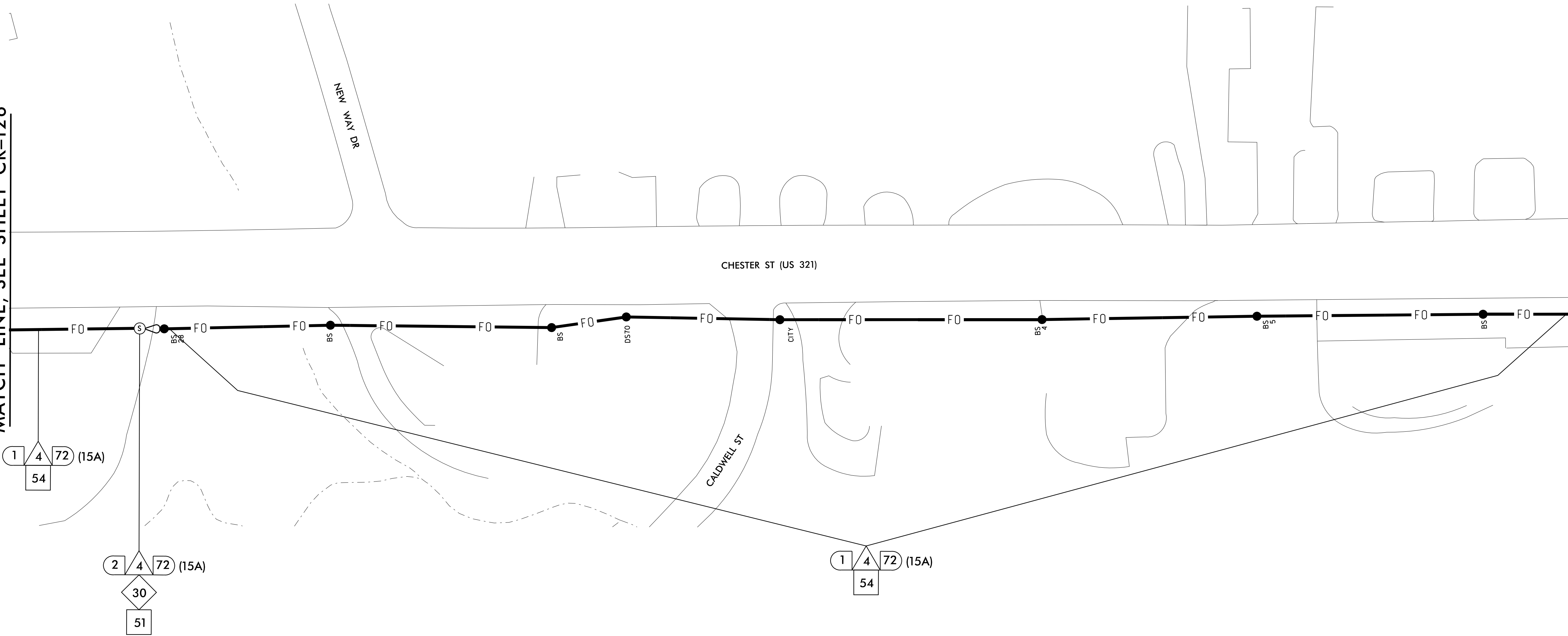
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<p><b>Plans Prepared For:</b></p>  <p>TRANSPORTATION MOBILITY AND SAFETY DIVISION DEPARTMENT OF TRANSPORTATION TRANSPORTATION &amp; SAFETY DIVISION</p>	<p><b>CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</b></p>	<p><b>SEAL</b></p> 																																	
<p><b>DIVISION 12</b></p>		<p><b>GASTON COUNTY</b></p>																																	
<p><b>PLAN DATE: DECEMBER 2021</b></p>		<p><b>REVIEWED BY: K. SMITH</b></p>																																	
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MATCH LINE, SEE SHEET CR-126

MATCH LINE, SEE SHEET CR-128

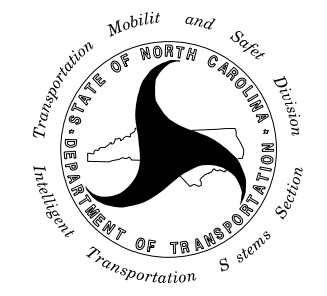


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1	INSTALL COAX CABLE	12	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	34	INSTALL CABINET FOUNDATION	44	INSTALL AERIAL GUY ASSEMBLY	53A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



150 N. Greenfield Pkwy., Garner, NC 27529

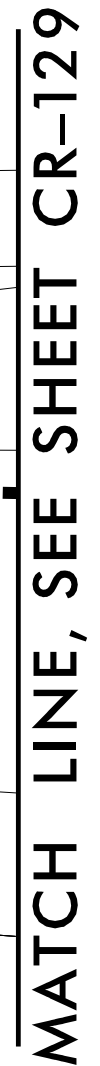
CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN

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

DocuSigned by:  
Inger Van Osdel  
3/18/2022

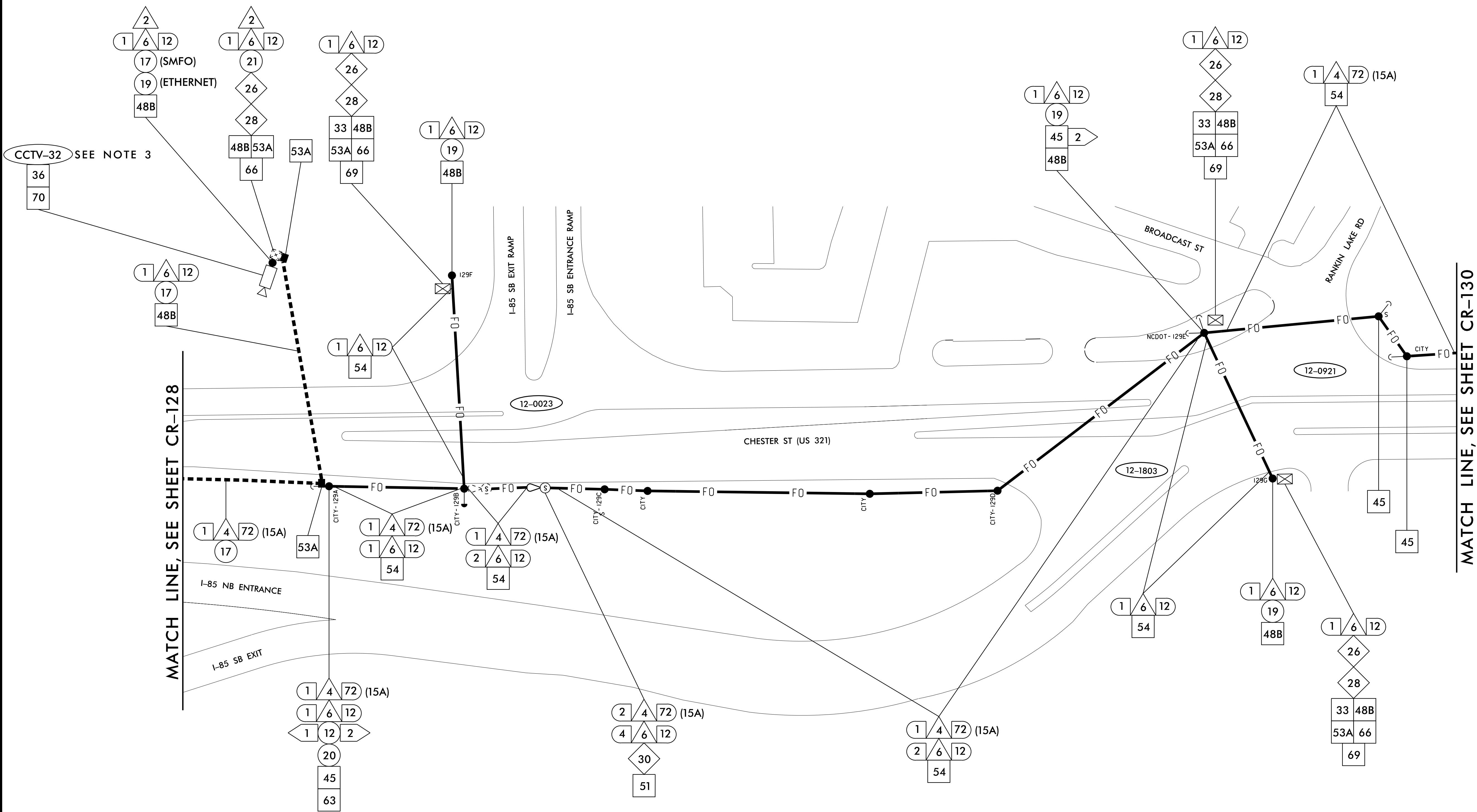
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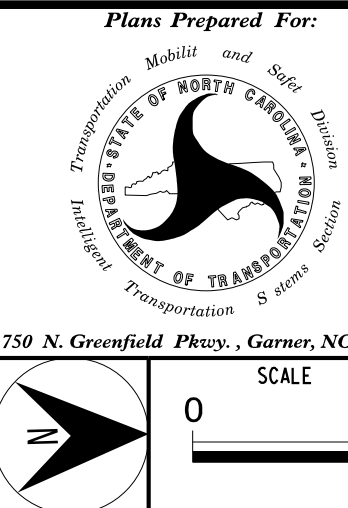
<p><b>Plans Prepared For:</b></p>  <p style="text-align: center;"><small>TRANSPORTATION</small></p>	<h2 style="margin: 0;">CITY OF GASTONIA COMPUTERIZED SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLAN</h2>	<p>SEAL</p> 																																	
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<div>8</div> <div>TRENCH</div>	<div>19</div> <div>INSTALL CABLE(S) IN EXISTING RISER</div>	<div>30</div> <div>INSTALL AERIAL SPLICER 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>
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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	DATE
<div>028952</div>	3/18/2022
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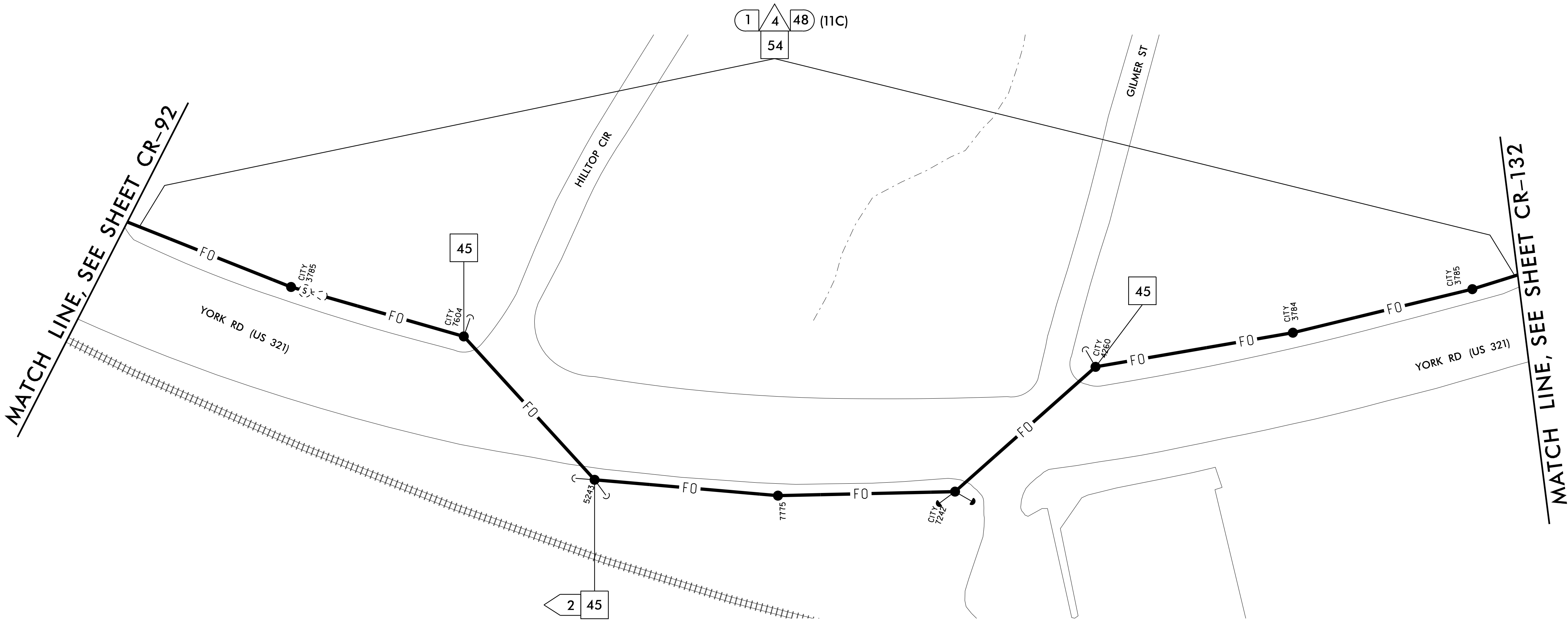


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3. CONNECT NEW RISER TO EXISTING SPARE CONDUIT STUB-OUT.

<p><b>Plans Prepared For:</b></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><b>SEAL</b></p> 																																	
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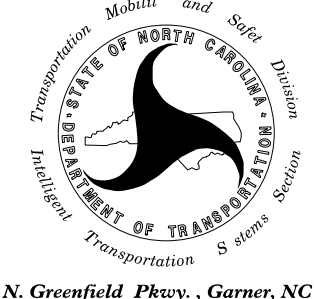




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8	TRENCH	19	INSTALL CABLE(S) IN EXISTING RISER	30	INSTALL AERIAL SPLICE ENCLOSURE	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")	50	INSTALL CELL MODEM AND ANTENNA	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	71	REMOVE EXISTING CCTV CAMERA 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
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

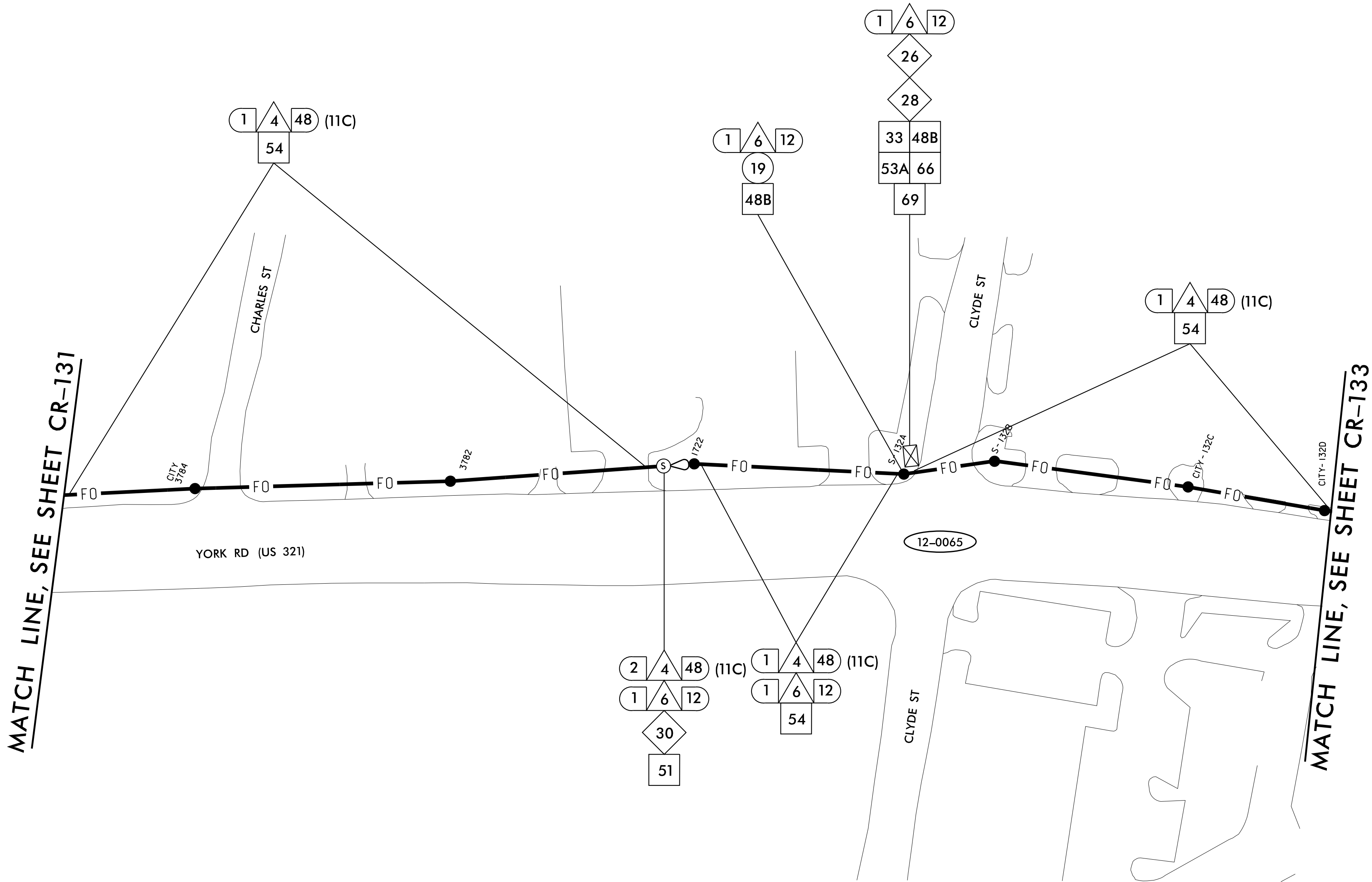
REVISIONS	INIT.	DATE

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

Seal of Kimley-Horn and Associates, Inc. (Professional Engineer)

DocuSigned by:  
Igor Van Osdel  
3/18/2022

CADD Filename:



3/17/2022  
K:\ARL\_TPTD\_LTS\01036569 Gastonia SignalSystem\6 Tasks\Plans\Cable Routing\SH132\_CR.dgn

<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 MOLDABLE 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.  
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UNIVERSITY OF NORTH CAROLINA  
AT CHARLOTTE  
750 N. Greenfield Place, Garner, NC 27529

SCALE  
0 50

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

DIVISION 12 GASTON COUNTY

PLAN DATE: DECEMBER 2021  
PREPARED BY: S. BUTLER

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

REVISIONS  
INIT. DATE

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

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