



- NOTES:**
- UNLESS OTHERWISE NOTED:
    - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
    - ATTACH NEW MESSENGER CABLE 40" BELOW POWER.
    - ATTACH ON FRONT SIDE (FS) OF POLE.
  - SEAL ALL CONDUIT ENDS WITH DUCT AND CONDUIT SEALER, AT ALL JUNCTION BOX / CABINET ENTRANCES.

|    |   |    |  |    |  |    |  |    |  |     |  |    |   |
|----|---|----|--|----|--|----|--|----|--|-----|--|----|---|
| 1  | INSTALL COMPOSITE CCTV CABLE                                  | 13 | INSTALL HEAT SHRINK TUBING RETROFIT KIT  | 25 | INSTALL NEW RISER INTO POLE MOUNTED CABINET  | 37 | INSTALL CCTV WOOD POLE                                   | 49 | REMOVE EXISTING COMMUNICATIONS CABLE   | 60A | INSTALL NEW POLE MOUNTED CABINET FOR ANTENNA (RADIO CABINET) | 72 | INSTALL 900 MHZ RADIO WITH PANEL ANTENNA        |
| 2  | INSTALL LOW VOLTAGE POWER CABLE (24VAC)                       | 14 | INSTALL HIGH DENSITY POLYETHYLENE CONDUIT                                      | 26 | INSTALL DIGITAL VIDEO ENCODER  | 38 | INSTALL STANDARD SIZE JUNCTION BOX                       | 50 | INSTALL SOLAR POWER ASSEMBLY   | 61  | REMOVE EXISTING CCTV CAMERA ASSEMBLY                         | 73 | INSTALL 2.4 GHZ ETHERNET RADIO AND YAGI ANTENNA |
| 3  | INSTALL CATEGORY 5E CABLE                                     | 15 | DIRECTIONAL DRILL CONDUIT  | 27 | INSTALL NEW ETHERNET EDGE SWITCH IN CABINET  | 39 | INSTALL SPECIAL-SIZED JUNCTION BOX                       | 51 | INSTALL CABLE STORAGE GUIDE(S) [SNOW SHOE(S)] AND STORE 100 FEET OF EACH CABLE | 62  | NEW CABINET ENTRANCE INTO NEW FOUNDATION                     | 74 | INSTALL 2.4 GHZ ETHERNET RADIO                  |
| 4  | INSTALL SMFO CABLE  | 16 | BORE AND JACK CONDUIT  | 28 | INSTALL INTERCONNECT CENTER PATCH PANEL JUMPERS AND FUSION SPlice CABLE IN CABINET | 40 | INSTALL OVER-SIZED JUNCTION BOX                          | 52 | INSTALL DELINEATOR MARKER  | 63  | DRILLCORE DRILL EXISTING FOUNDATION                          | 75 | INSTALL OMNI ANTENNA                            |
| 5  | INSTALL COAXIAL ANTENNA CABLE                                 | 17 | INSTALL CABLE(S) IN EXISTING CONDUIT   | 29 | INSTALL UNDERGROUND SPlice ENCLOSURE   | 41 | REMOVE EXISTING JUNCTION BOX                             | 53 | STORE 50 FEET OF COMMUNICATIONS CABLE (EACH CABLE)                             | 64  | INTERCEPT AND REROUTE EXISTING CONDUITS                      | 76 | INSTALL 900 MHZ ETHERNET RADIO                  |
| 6  | INSTALL FIBER-OPTIC DROP CABLE                                | 18 | INSTALL CABLE(S) IN NEW CONDUIT  | 30 | INSTALL AERIAL SPlice ENCLOSURE  | 42 | INSTALL WOOD POLE  | 54 | LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE                          | 65  | BOND MESSENGER TO POLE GROUND                                | 77 | INSTALL CCTV METAL POLE                         |
| 7  | INSTALL TRACER WIRE   | 19 | INSTALL CABLE(S) IN EXISTING RISER(S)  | 31 | INSTALL SPlice CABINET   | 43 | REMOVE EXISTING WOOD POLE                                | 55 | LASH CABLE(S) TO EXISTING MESSENGER CABLE                                      | 66  | BOND RISER TO POLE GROUND                                    | 78 | REMOVE WIRELESS COMMUNICATIONS EQUIPMENT        |
| 8  | INSTALL CONDUIT UNDERGROUND                                   | 20 | INSTALL CABLE(S) IN NEW RISER(S)   | 32 | MODIFY EXISTING SPlice ENCLOSURE OR INTERCONNECT CENTER                            | 44 | INSTALL AERIAL GUY ASSEMBLY                              | 56 | LASH CABLE(S) TO NEW MESSENGER CABLE   | 67  | BOND TRACER WIRE TO EQUIPMENT GROUND BUS                     | 79 | INSTALL CELLULAR MODEM                          |
| 9  | INSTALL PVC CONDUIT   | 21 | INSTALL CABLE(S) IN EXISTING CABINET ENTRANCE                                  | 33 | REMOVE EXISTING SPlice /HUB / CCTV CABINET   | 45 | INSTALL STANDARD GUY ASSEMBLY                            | 57 | MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV                                    | 68  | BOND TRACER WIRE TO POLE GROUND                              | 80 | INSTALL YAGI ANTENNA                            |
| 10 | INSTALL RIGID, GALVANIZED STEEL CONDUIT                       | 22 | INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE) | 34 | INSTALL CABINET FOUNDATION   | 46 | INSTALL SIDEWALK GUY ASSEMBLY                            | 58 | INSTALL NEW ELECTRICAL SERVICE FOR CCTV OR RADIO                               | 69  | HANDLASH AND INSTALL AERIAL CABLE PROTECTOR                  |    |   |
| 11 | INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD        | 23 | INSTALL NEW RISER INTO CABINET BASE (USE EX CABINET ENTRANCE WHEN AVAILABLE)   | 35 | REMOVE EXISTING CABINET FOUNDATION   | 47 | INSTALL MESSENGER CABLE                                  | 59 | INSTALL NEW POLE MOUNTED CCTV CABINET (336)                                    |     |  |    |   |
| 12 | INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING | 24 | INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET                                  | 36 | INSTALL CCTV CAMERA ASSEMBLY   | 48 | REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE | 60 | INSTALL NEW POLE MOUNTED CCTV CABINET (NEMA TYPE 4)                            |     |  |    |   |

**ATTACHMENT POINT:**

XXX DISTANCE ABOVE (IN) REFERENCE POINT  
 YYY REFERENCE POINT DISTANCE BELOW (IN)

**CONSTRUCTION NOTE SYMBOLOLOGY KEY**

NUMBER OF CABLE(S)/LOOPS, DETECTOR, AMPLIFIERS, GUYS, ANTENNAS: (XX) (YY) (ZZ)  
 NUMBER OF RISER(S)/CONDUIT(S): (XX)  
 NUMBER OF FIBER/TWISTED PAIRS: (XX)  
 DIAMETER OF RISER(S)/CONDUIT(S) (IN): (XX)

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**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

Prepared for the Offices of:

**NC** **Transportation**

750 Greenfield Parkway, Garner, NC 27529

**Asheville Signal System**  
**Cable Routing Plans**

Division 13 Buncombe County Asheville

PLAN DATE: December 2016 REVIEWED BY: M B Toth

PREPARED BY: J A Wiles REVIEWED BY:

REVISIONS

INIT. DATE

SCALE: 0 50  
 1"=50'

1/13/2017  
 Melissa B. Toth  
 DATE  
 CADD File name: CL 330.dgn

13-JAN-2017 11:12  
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