

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED IMPROVEMENTS
CITY OF GASTONIA
COMPUTERIZED TRAFFIC SIGNAL SYSTEM

COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

CONTRACT: C201329 TIP PROJECT: U-4736

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
1A	LEGEND, INDEX OF SHEETS, ROADWAY STANDARD DRAWINGS
1B	CONSTRUCTION NOTES
1C-1F	PLAN KEY
2-2C	CABLE SCHEMATIC
2D-2G	SYSTEM DETECTOR SCHEMATIC
2H	BLOCK DIAGRAM
2J-2M	SEQUENCE OF CONSTRUCTION
2N	CABLE NAMES
2P-2S	GASTONIA ELECTRIC OVERLAY SCHEMATIC
3	CABINET AND FOUNDATION DETAILS
3A	CABINET FOUNDATION AND BASE ADAPTER DETAIL
3B	CABINET AND SPLICE DETAILS
3C-3D	CABINET COMPONENT LAYOUT
3E	CCTV POLE DETAIL
3F	GROUNDING REQUIREMENTS FOR CCTV POLE
4-4E	BUILDING MODIFICATIONS
5	QUANTITIES
6-6G	SUMMARY OF WORK BY INTERSECTION
6H	SUMMARY OF WORK BY CCTV
7-173	CABLE ROUTING SHEETS

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2002 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NUMBER	DESCRIPTION
1715.01	UNDERGROUND CONDUIT
1716.01	JUNCTION BOXES
1720.01	WOOD POLES
1721.01	GUY ASSEMBLIES
1725.01	INDUCTIVE DETECTIVE LOOPS
1730.01	FIBER OPTIC CABLE
1730.02	FIBER OPTIC CABLE
1733.01	DELINEATOR MARKERS
1740.01	METAL POLES
1742.01	METAL POLE FOUNDATIONS
1751.01	CONTROLLERS AND CABINETS
1751.02	CONTROLLERS AND CABINETS
1752.01	CONTROLLERS AND CABINETS

LEGEND

- FO—FO— NEW FIBER OPTIC COMMUNICATIONS CABLE
- FO LLI—FO LLI- NEW FIBER OPTIC AND LOOP LEAD-IN CABLE
- LLI—LLI— NEW LOOP LEAD-IN CABLE
- TWIST. PR.— NEW TWISTED PAIR COMMUNICATIONS CABLE
- EXIST.— EXISTING COMMUNICATIONS CABLE
- REM.— EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- NEW AERIAL GUY ASSEMBLY
- · · · · · NEW CONDUIT
- - - - - EXISTING CONDUIT
- DD — DD — NEW DIRECTIONAL DRILLED CONDUIT
- B & J — NEW BORED AND JACKED CONDUIT
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- EXISTING WOOD POLE (TO BE REMOVED BY OTHERS)
- NEW WOOD POLE (INSTALLED BY OTHERS)
- ⊙ NEW AERIAL SPLICE ENCLOSURE
- ⊙ EXISTING SPLICE ENCLOSURE
- ⊠ NEW METAL POLE
- ⊠ EXISTING METAL POLE
- ▶ □ NEW CCTV CAMERA ASSEMBLY
- └ NEW STANDARD GUY ASSEMBLY
- └ NEW SIDEWALK GUY ASSEMBLY
- ▷ ◁ NEW CABLE STORAGE RACKS (SNOW SHOES)
- ⊠ EXISTING BASE MOUNTED CONTROLLER AND CABINET
- ⊠ EXISTING POLE MOUNTED CONTROLLER AND CABINET
- ⊠ NEW BASE MOUNTED EQUIPMENT CABINET (CONTROLLER OR CCTV)
- ⊠ NEW POLE MOUNTED EQUIPMENT CABINET (CONTROLLER OR CCTV)
- ⊠ EXISTING SPLICE CABINET
- ⊠ NEW SPLICE CABINET
- SP SIGNAL POLE
- ⊠ XX-XXXX SIGNAL INVENTORY NUMBER
- ⊠ FIBER OPTIC DELINEATOR MARKER

CONSTRUCTION NOTE SYMBOLOGY KEY

- ⊠ XX INDICATES NUMBER OF CABLES, LOOPS, ETC.
 - ⊠ XX INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
 - ◁ XX ▷ INDICATES NUMBER OF RISER(S)/CONDUIT(S)
 - ⊠ XX ⊠ INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)
- NUMBER OF CABLE(S)

NUMBER OF FIBERS/TWISTED PAIRS

NUMBER OF RISER(S)/CONDUIT(S)

DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

VOLUME 1 OF 3

PLANS PREPARED BY:

Kimley-Horn and Associates, Inc.
P.O. Box 33068
Raleigh, NC 27636
1991 677-2000

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 023562
ENGINEER MARK DUNZO

6/22/05
SIGNATURE DATE