



**GENERAL NOTE:**  
 CONTRACTOR TO MAINTAIN A MINIMUM OF SIX (6) FEET FROM EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.

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|---|---|--|---|---|
| 1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE              | 16. INSTALL BRIDGE MOUNTED FIBERGLASS CONDUIT, WITH FOUR-WAY INNERDUCT INSERT                                 | 31. INSTALL POLE MOUNTED SPLICE CABINET  | 47. INSTALL MESSENGER CABLE   | 62. LOCATE EXISTING JUNCTION BOX AND CONNECT WITH NEW CONDUIT |
| 2. INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE | 17. INSTALL CABLE(S) IN EXISTING CONDUIT  | 32. INSTALL BASE MOUNTED SPLICE CABINET (336) WITH EXTEND BASE                   | 48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE                      | 63. BOND MESSENGER CABLE AND RISER TO POLE GROUND             |
| 3. INSTALL 3-CONDUCTOR, CLASS B, STRANDED UNDERGROUND POWER CABLE                 | 18. INSTALL CABLE(S) IN NEW CONDUIT   | 33. REMOVE EXISTING SPLICE CABINET   | 49. REMOVE EXISTING COMMUNICATIONS CABLE  |   |
| 4. INSTALL SMFO CABLE   | 19. INSTALL CABLE(S) IN EXISTING RISER  | 34. INSTALL CABINET FOUNDATION   | 50. INSTALL REEL END SPLICE   |   |
| 5. INSTALL CAT 5e COMMUNICATIONS CABLE  | 20. INSTALL CABLE(S) IN NEW RISER   | 35. REMOVE EXISTING CABINET FOUNDATION   | 51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE          |   |
| 6. INSTALL FIBER OPTIC DROP CABLE   | 21. INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS   | 36. INSTALL CCTV CAMERA ASSEMBLY   | 52. INSTALL DELINEATOR MARKER   |   |
| 7. INSTALL TRACER WIRE  | 22. INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)            | 37. INSTALL CCTV CAMERA WOOD POLE  | 53. STORE 50 FEET OF COMMUNICATIONS CABLE   |   |
| 8. TRENCH   | 23. INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)              | 38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION                                | 54. LASH CABLE(S) TO EXISTING SIGNAL / COMMUNICATIONS CABLE                       |   |
| 9. INSTALL PVC CONDUIT  | 24. INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET  | 39. INSTALL SPECIAL OVERSIZED JUNCTION BOX WITH 100 FEET OF COMMUNICATIONS CABLE | 55. LASH CABLE(S) TO EXISTING MESSENGER CABLE                                     |   |
| 10. INSTALL RIGID, GALVANIZED STEEL CONDUIT                                       | 25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET  | 40. INSTALL OVERSIZED JUNCTION BOX   | 56. LASH CABLE(S) TO NEW MESSENGER CABLE  |   |
| 11. INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD                        | 26. TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET | 41. INSTALL BRIDGE MOUNTED JUNCTION BOX  | 57. MODIFY EXISTING ELECTRICAL SERVICE  |   |
| 12. INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL             | 27. INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET                                | 42. INSTALL WOOD POLE  | 58. INSTALL NEW ELECTRICAL SERVICE FOR DMS  |   |
| 13. INSTALL OUTER-DUCT POLYETHYLENE CONDUIT                                       | 28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET                     | 43. REMOVE EXISTING WOOD POLE  | 59. INSTALL NEW BASE MOUNTED CABINET (336)  |   |
| 14. INSTALL POLYETHYLENE CONDUIT  | 29. INSTALL UNDERGROUND SPLICE ENCLOSURE  | 44. INSTALL AERIAL GUY ASSEMBLY  | 60. SEAL ALL CONDUIT ENTERING JUNCTION BOXES AND CABINETS WITH MOLDABLE DUCT SEAL |   |
| 15. DIRECTIONAL DRILL CONDUIT   | 30. INSTALL AERIAL SPLICE ENCLOSURE   | 45. INSTALL STANDARD GUY ASSEMBLY  | 61. INSTALL ETHERNET SWITCH   |   |
|   |   | 46. INSTALL SIDEWALK GUY ASSEMBLY  |   |   |

Prepared for the Offices of:  
 Transportation, Mobility and Safe Operations  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 750 N. Greenfield Plaza, Garner, NC 27529

**CABLE ROUTING PLANS**

DIV 3 BRUNSWICK CO. Near WILMINGTON

PLAN DATE: January 2018 REVIEWED BY: G. Green  
 PREPARED BY: L. Neal REVIEWED BY: P. Marak

SCALE: NTS

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 031636  
 PAUL P. MARAK  
 2/1/2018

REVISIONS: INIT. DATE

SIGNATURE: DATE  
 CADD FILE NAME