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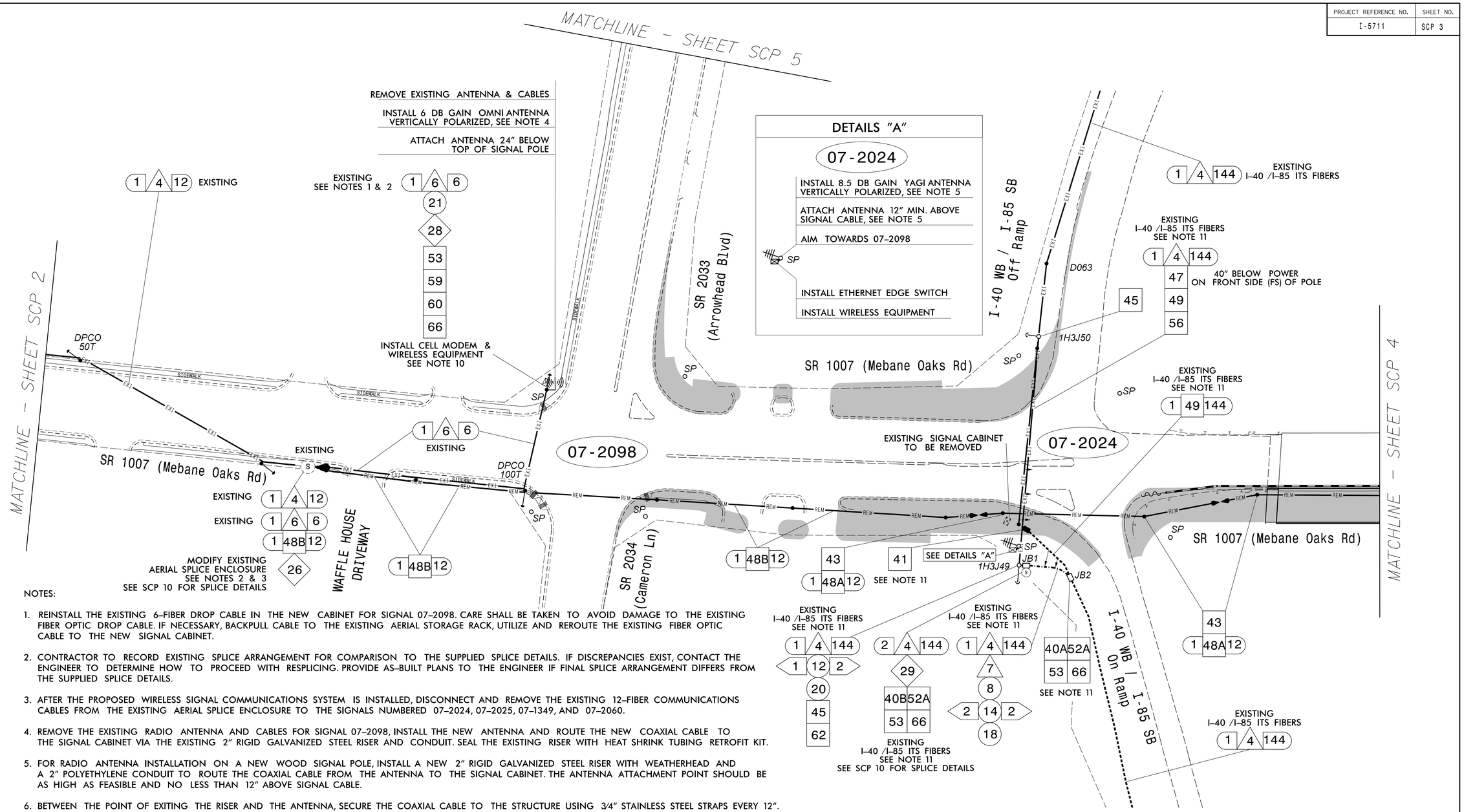
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| I-5711 | SCP 3 |




NOTES:

1. REINSTALL THE EXISTING 6–FIBER DROP CABLE IN THE NEW CABINET FOR SIGNAL 07–2098. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE EXISTING FIBER OPTIC DROP CABLE. IF NECESSARY, BACKPULL CABLE TO THE EXISTING AERIAL STORAGE RACK, UTILIZE AND REROUTE THE EXISTING FIBER OPTIC CABLE TO THE NEW SIGNAL CABINET.

2. CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS–BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.

3. AFTER THE PROPOSED WIRELESS SIGNAL COMMUNICATIONS SYSTEM IS INSTALLED, DISCONNECT AND REMOVE THE EXISTING 12–FIBER COMMUNICATIONS CABLES FROM THE EXISTING AERIAL SPLICE ENCLOSURE TO THE SIGNALS NUMBERED 07–2024, 07–2025, 07–1349, AND 07–2060.

4. REMOVE THE EXISTING RADIO ANTENNA AND CABLES FOR SIGNAL 07–2098, INSTALL THE NEW ANTENNA AND ROUTE THE NEW COAXIAL CABLE TO THE SIGNAL CABINET VIA THE EXISTING 2" RIGID GALVANIZED STEEL RISER AND CONDUIT. SEAL THE EXISTING RISER WITH HEAT SHRINK TUBING RETROFIT KIT.

5. FOR RADIO ANTENNA INSTALLATION ON A NEW WOOD SIGNAL POLE, INSTALL A NEW 2" RIGID GALVANIZED STEEL RISER WITH WEATHERHEAD AND A 2" POLYETHYLENE CONDUIT TO ROUTE THE COAXIAL CABLE FROM THE ANTENNA TO THE SIGNAL CABINET. THE ANTENNA ATTACHMENT POINT SHOULD BE AS HIGH AS FEASIBLE AND NO LESS THAN 12" ABOVE SIGNAL CABLE.

6. BETWEEN THE POINT OF EXITING THE RISER AND THE ANTENNA, SECURE THE COAXIAL CABLE TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12".

7. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.

8. SEE 2018 NCDOT ROADWAY STANDARD DRAWINGS 1736.01 FOR WIRELESS RADIO ANTENNA TYPICAL DETAILS.

9. RETURN EXISTING WIRELESS RADIO EQUIPMENT AND TRANSCEIVERS TO THE NCDOT DIVISION 7 SIGNAL SHOP. THE DIVISION 7 OFFICE IS LOCATED AT 1584 YANCEYVILLE STREET, GREENSBORO, NC 27415 AND CAN BE REACHED AT 336–487–0175.

10. THE NCDOT DIVISION 7 WILL FURNISH THE CELL MODEM. EIGHT (8) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT NCDOT DIVISION 7 DEPUTY TRAFFIC ENGINEER MARK ALDRIDGE AT 336–487–0175 TO OBTAIN THE CELL MODEM AND REQUEST THE DIVISION'S ASSISTANCE IN PROGRAMMING THE NEW ETHERNET EDGE SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DEPUTY TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.

11. CUT THE EXISTING 144–FIBER ITS CABLE INSIDE THE EXISTING JUNCTION BOX LOCATED IN THE NW QUADRANT OF THE WESTBOUND ON–RAMP INTERSECTION. INTERCEPT EXISTING CONDUIT WITH NEW JUCTION BOX, JB2, AND BACKPULL THE EXISTING 144–FIBER CABLE TO POLE #D063, AND NEW JUNCTION BOX, JB2, AND REROUTE THROUGH NEW CONDUIT TO NEW JUNCTION BOX, JB1, AS SHOWN. SPLICE REROUTED EXISITNG 144–FIBER CABLES IN NEW JUNCTION BOX, JB1, TO RESTORE ORIGINAL FIBER CONNECTIONS, AND STORE SLACK FIBER IN JB1 AND JB2. NOTIFY NCDOT REGIONAL ITS ENGINEER AT 336–315–7081 TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE 144–FIBER CABLE WHICH SERVES THE I–40/I–85 ITS SYSTEM, AND IMMEDIATELY AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE I–40/I–85 ITS SYSTEM IS BACK UP AND OPERATIONAL (SEE ICT).

Phase I Work Zone is Shown for Reference
TMP 1 Communications Plan

*PREPARED IN THE OFFICE OF:*
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Traffic Engineering Branch, Transportation Mobility and Safety Division, NC DEPARTMENT OF TRANSPORTATION, Traffic Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

# SR 1007 (Mebane Oaks Rd) CLS Cable Routing Plan

Division 7 Alamance County Mebane

PLAN DATE: November 2019 REVIEWED BY: Z. "Gavin" Teng

PREPARED BY: Z. "Gavin" Teng REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SCALE 0 50 1" = 50'

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032179 ZHAOLONG TENG

Docusigned by: Bradley Teng 12/17/2019
SIGNATURE DATE

CADD Filename:

$$$$SYSTIME$$$$
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