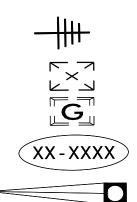
PROJECT REFERENCE NO. U-5839

LEGEND



YAGI ANTENNA (SINGLE)

EXISTING CONTROLLER AND CABINET EXISTING GATEWAY RADIO LOCATION

SIGNAL INVENTORY NUMBER

EXISTING METAL POLE W/MAST ARM

EXISTING WOOD POLE

-L- US 276 (Russ Avenue) (14-1032) INSTALL 8.5 DB GAIN YAGI ANTENNA VERTICALLY POLARIZED ATTACH ANTENNA ALONG MAST ARM A MINIMUM OF 6 FEET AWAY FROM THE VERTICAL SHAFT MEMBER INSTALL 900 mHZ ETHERNET RADIO WIRELESS NOTES:

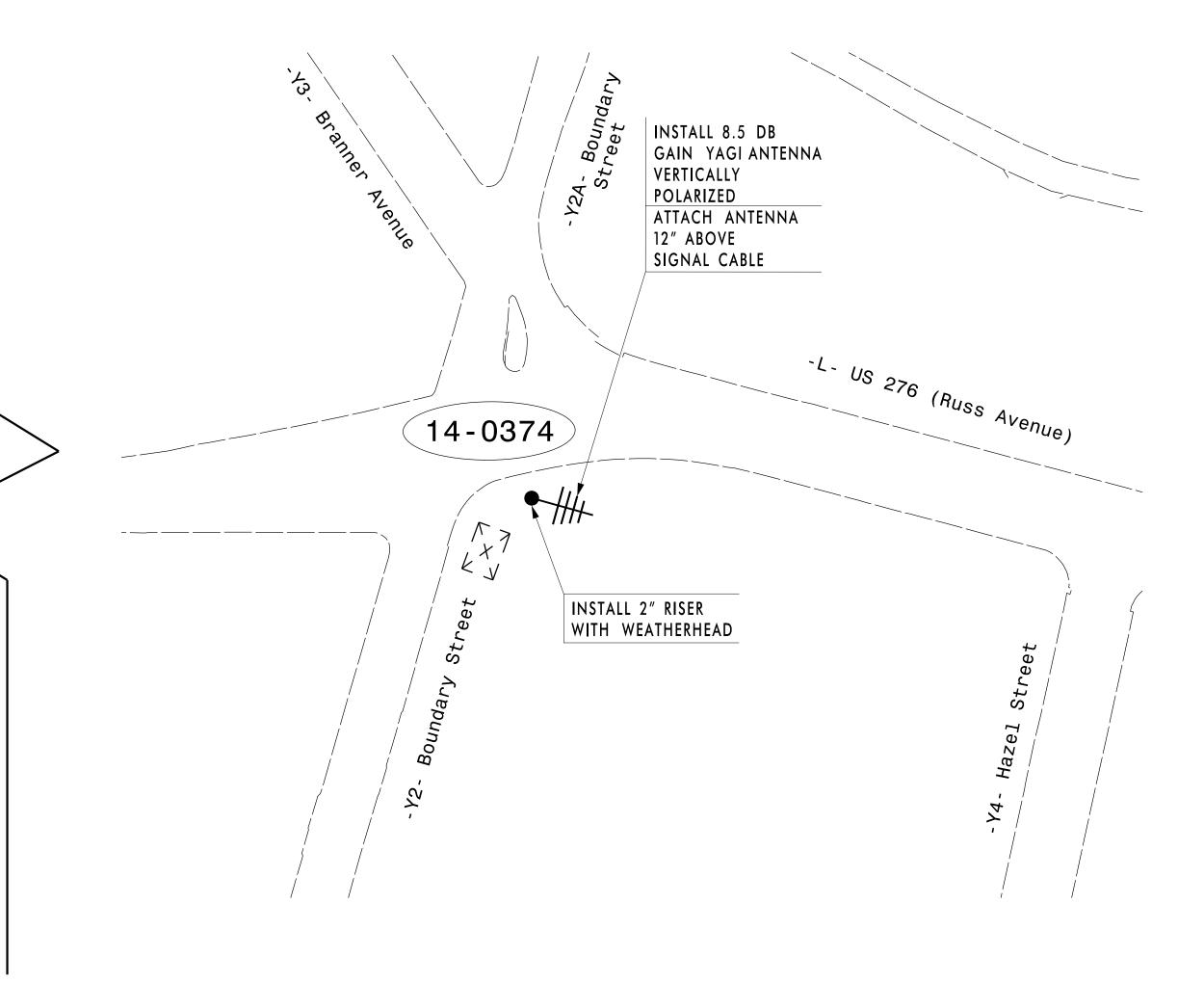
1) INSTALL COAXIAL CABLE

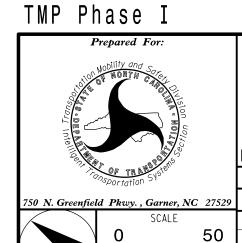
A. ON WOOD POLE, REQUIRING A NEW RIGID GALVANIZED STEEL RISER INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.

B. ON METAL POLES WITH MAST ARMS, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE MAST ARM. FIELD DRILL A 1/2" HOLE UP THROUGH THE BOTTOM OF MAST ARM FOR INSTALLATION OF THE COAXIAL CABLE TO THE ANTENNA.

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

- 2) IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER WITHIN 2" WEATHERHEAD.
- 3) INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN. (NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- 4) INSTALL WIRELESS RADIO WITH EXTERIOR DISCONNECT SWITCH LOCATED ON CABINET. (NOTE: RF ANTENNA DISCONNECT SWITCH AND DECAL ARE NOT REQUIRED' WHEN THE ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.
- 5) MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE MANUAL ELECTRICAL SAFETY CODE.
- 6) REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS."





D14-12_Waynesville Wireless Communication Plans

Division 14 Haywood County Waynesville PLAN DATE: April 2023 REVIEWED BY: WJ Hamilton PREPARED BY: TS Popelka RKA PROJ. NO: 16085 (041) REVISIONS INIT. DATE

William J. Hamilton

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL

SIGNATURES COMPLETED

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