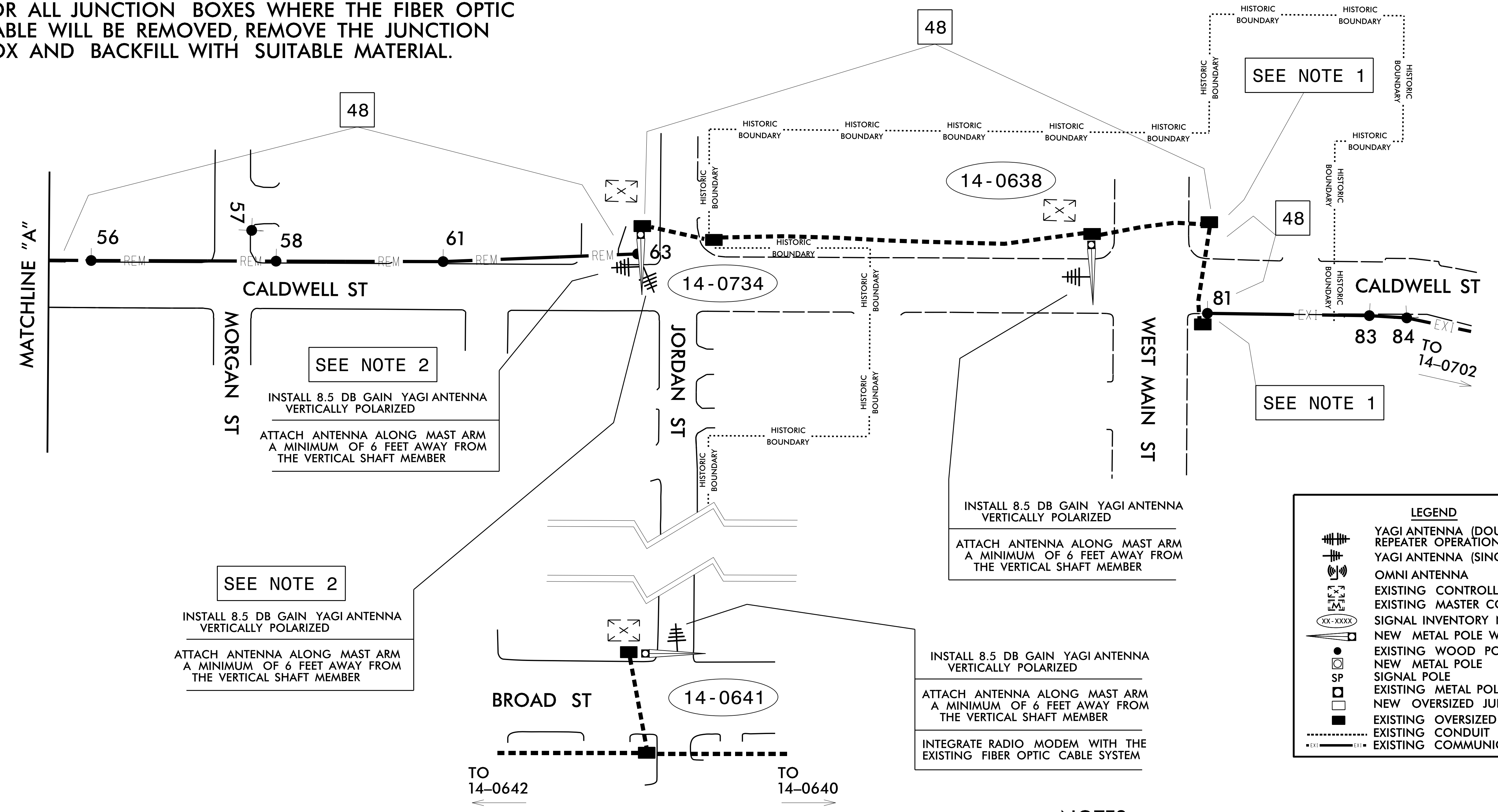


FOR ALL JUNCTION BOXES WHERE THE FIBER OPTIC CABLE WILL BE REMOVED, REMOVE THE JUNCTION BOX AND BACKFILL WITH SUITABLE MATERIAL.



SEE NOTE 2  
 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

SEE NOTE 2  
 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 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 8.5 DB GAIN YAGI ANTENNA VERTICALLY POLARIZED  
 ATTACH ANTENNA ALONG MAST ARM A MINIMUM OF 6 FEET AWAY FROM THE VERTICAL SHAFT MEMBER  
 INTEGRATE RADIO MODEM WITH THE EXISTING FIBER OPTIC CABLE SYSTEM

**LEGEND**

- YAGI ANTENNA (DOUBLE) FOR REPEATER OPERATION
- YAGI ANTENNA (SINGLE)
- OMNI ANTENNA
- EXISTING CONTROLLER AND CABINET
- EXISTING MASTER CONTROLLER AND CABINET
- SIGNAL INVENTORY NUMBER
- NEW METAL POLE W/MAST ARM
- EXISTING WOOD POLE
- NEW METAL POLE
- SIGNAL POLE
- EXISTING METAL POLE
- NEW OVERSIZED JUNCTION BOX
- EXISTING OVERSIZED JUNCTION BOX
- EXISTING CONDUIT
- EXISTING COMMUNICATIONS CABLE

- NOTES FOR WIRELESS COMMUNICATIONS:
- INSTALL COAXIAL CABLE:
    - ON WOOD POLES, REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
    - 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.
    - ON METAL STRAIN POLES, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
    - BETWEEN THE POINT OF EXITING THE RISER, METAL POLE OR MAST ARM AND THE ANTENNA, SECURE THE COAXIAL CABLE TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12".
  - IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER.
  - INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.  
(NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
  - MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
  - INSTALL WIRELESS SERIAL RADIO MODEM 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.)
  - REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS."

NOTES:

- CUT FIBER IN JUNCTION BOX. BACKPULL TO POLE "81" AND COIL AND STORE. CAP AND SEAL END OF FIBER WITH HEAT SHRINK TUBING WHILE STORED.
- MOVE ANTENNA TO NEW MAST ARM WHEN NEW SIGNAL CABINET IS OPERATIONAL.

TMP - I

	WIRELESS COMMUNICATIONS PLAN	
	DIVISION 14 TRANSYLVANIA CO.	DocuSigned by: BREVARD
PLAN DATE: JANUARY 2015	REVIEWED BY: Neil Avery	SEAL 023919 ENGINEER GREGORY A. FULLER
PREPARED BY: B.A. STOUCHKO	REVIEWED BY: 09F5D94CBED3445	DocuSigned by: Gregory A. Fuller 1/26/2015
REVISIONS	INIT. DATE	CADD Filename: