



INSTALL 8.5 DB GAIN YAGI ANTENNA  
VERTICALLY POLARIZED, SEE NOTE 1

ATTACH ANTENNA 24" BELOW  
TOP OF SIGNAL POLE

AIM TOWARDS 07-2098

INSTALL ETHERNET EDGE SWITCH

INSTALL WIRELESS EQUIPMENT

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NOTES:

1. REMOVE THE EXISTING RADIO ANTENNA AND CABLES, AND 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.
2. 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".
3. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
4. SEE 2018 NCDOT ROADWAY STANDARD DRAWINGS 1736.01 FOR WIRELESS RADIO ANTENNA TYPICAL DETAILS.
5. 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.
6. SIX (6) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE NCDOT DIVISION 7 DEPUTY TRAFFIC ENGINEER MARK ALDRIDGE AT 336-487-0175 TO 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.

\$\$\$\$\$\$SYTIME\$\$\$\$\$\$  
 \$\$\$\$\$\$DATE\$\$\$\$\$\$  
 \$\$\$\$\$\$DRAWINGNO\$\$\$\$\$\$  
 \$\$\$\$\$\$USERNAME\$\$\$\$\$\$

PREPARED IN THE OFFICE OF:  
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TMP 1 and Final Communications Plan		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER ZHAOLONG TENG 032179	
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	DATE
12/17/2019	[Signature]	[Signature]	DATE
CADD Filename:			

