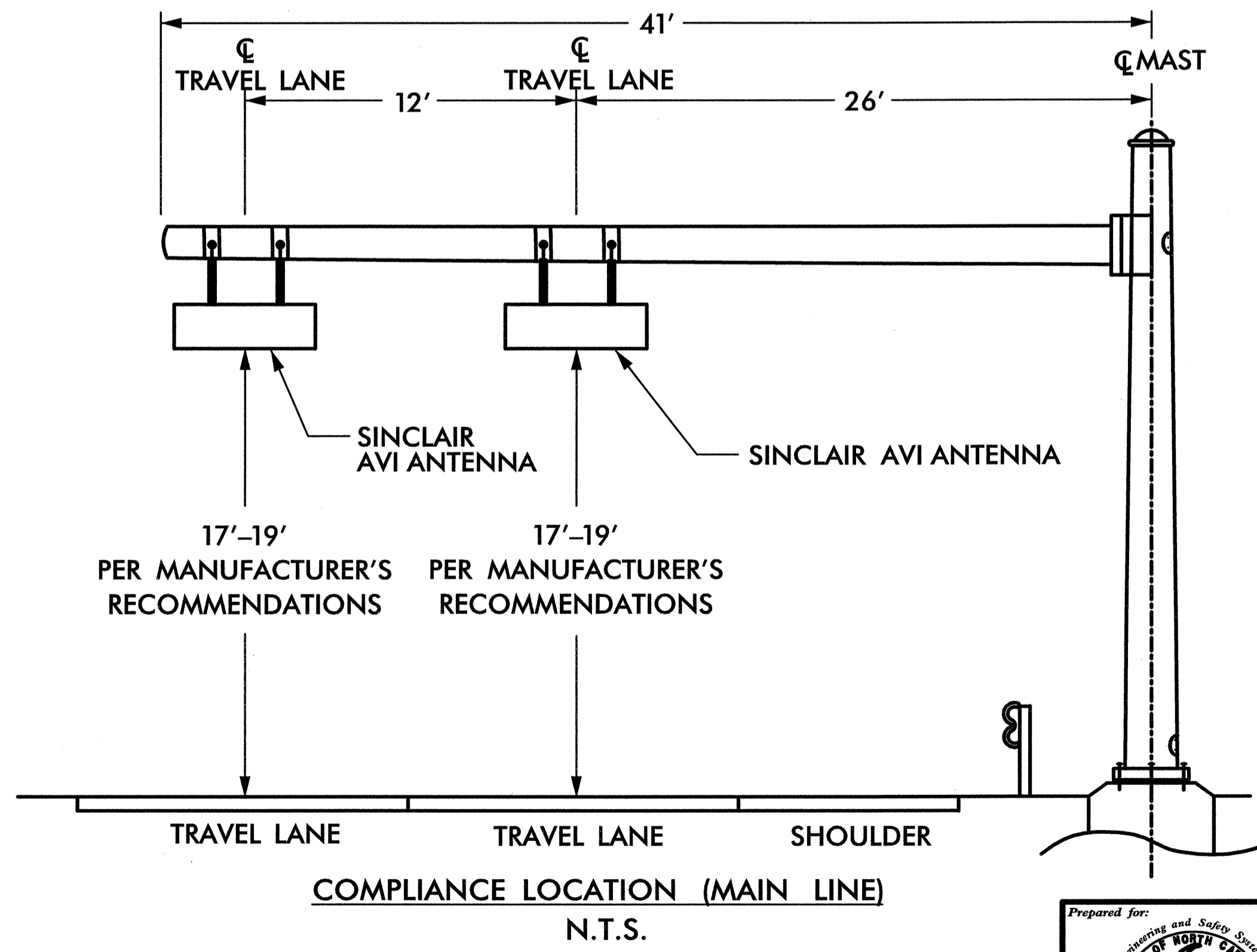
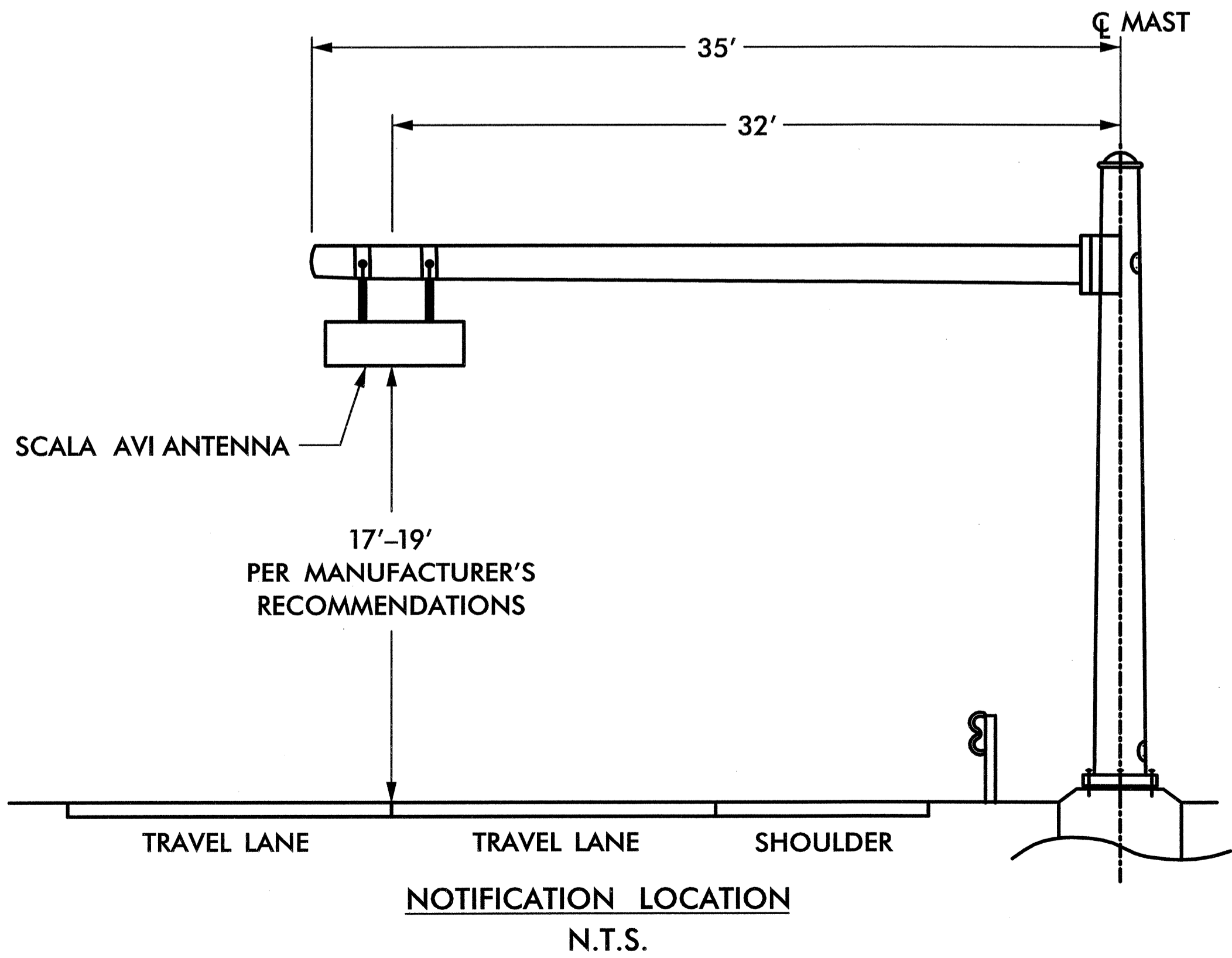


NOTES:

1. THE FOUNDATION EMBEDMENT DEPTH, REINFORCEMENT, AND ANCHOR BOLT SIZE AND LENGTH SHALL BE DETERMINED BY THE CONTRACTOR. FOUNDATION DESIGN CALCULATIONS, SIGNED AND SEALED BY A NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL SOIL BORING INFORMATION USED BY THE CONTRACTOR IN THE FOUNDATION DESIGN SHALL BE SUBMITTED WITH CALCULATIONS. THE FURNISHED FOUNDATION DESIGN SHALL INCLUDE CONDUIT AND GROUNDING DESIGNS IN ACCORDANCE WITH NCDOT STANDARDS AND THE SPECIAL PROVISIONS
2. THE POLE, MAST ARM AND HINGE ASSEMBLY SHALL BE DESIGNED USING THE LOADING INFORMATION SHOWN ON THIS DRAWING AND IN ACCORDANCE WITH THE 2001 AASHTO "STANDARD SPECIFICATIONS FOR THE STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" USING A 70 MPH WIND ZONE VELOCITY. THE POLE, MAST ARM AND HINGE ASSEMBLY DESIGN CALCULATIONS, SIGNED AND SEALED BY A NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. METAL POLES AND THEIR MAST ARMS SHALL BE DESIGNED SO THAT THE MAXIMUM TOTAL DEFLECTION AT THE TIP OF THE MAST ARM DUE TO THE COMBINED DEFLECTION OF THE POLE AND THE ARM WILL NOT EXCEED 1.0% OF THE TOTAL MAST ARM LENGTH UNDER MAXIMUM LOADING CONDITIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE MAST ARM ATTACHMENT HEIGHT VALUE SHOWN WILL PROVIDE THE REQUIRED VERTICAL CLEARANCES FROM THE ROADWAY AS SHOWN ON THIS SHEET PRIOR TO SUBMITTING FINAL SHOP DRAWINGS FOR THESE POLES.
5. AVI ANTENNA SHALL BE MOUNTED WITH STAINLESS STEEL HARDWARE AND SHALL BE INSTALLED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.



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	MAST ARM POLE DETAIL			
	DIVISION 07	ORANGE COUNTY	HILLSBOROUGH	
	PLAN DATE: OCTOBER 2003	REVIEWED BY: J.P. HOCHANADEL		
	PREPARED BY: K.H. IDE	REVIEWED BY: H.L. WINSTEAD		
SCALE: NONE	REVISIONS	INIT.	DATE	
				9/14/04 SIGNATURE DATE CADD FILE NAME tms-18.dgn