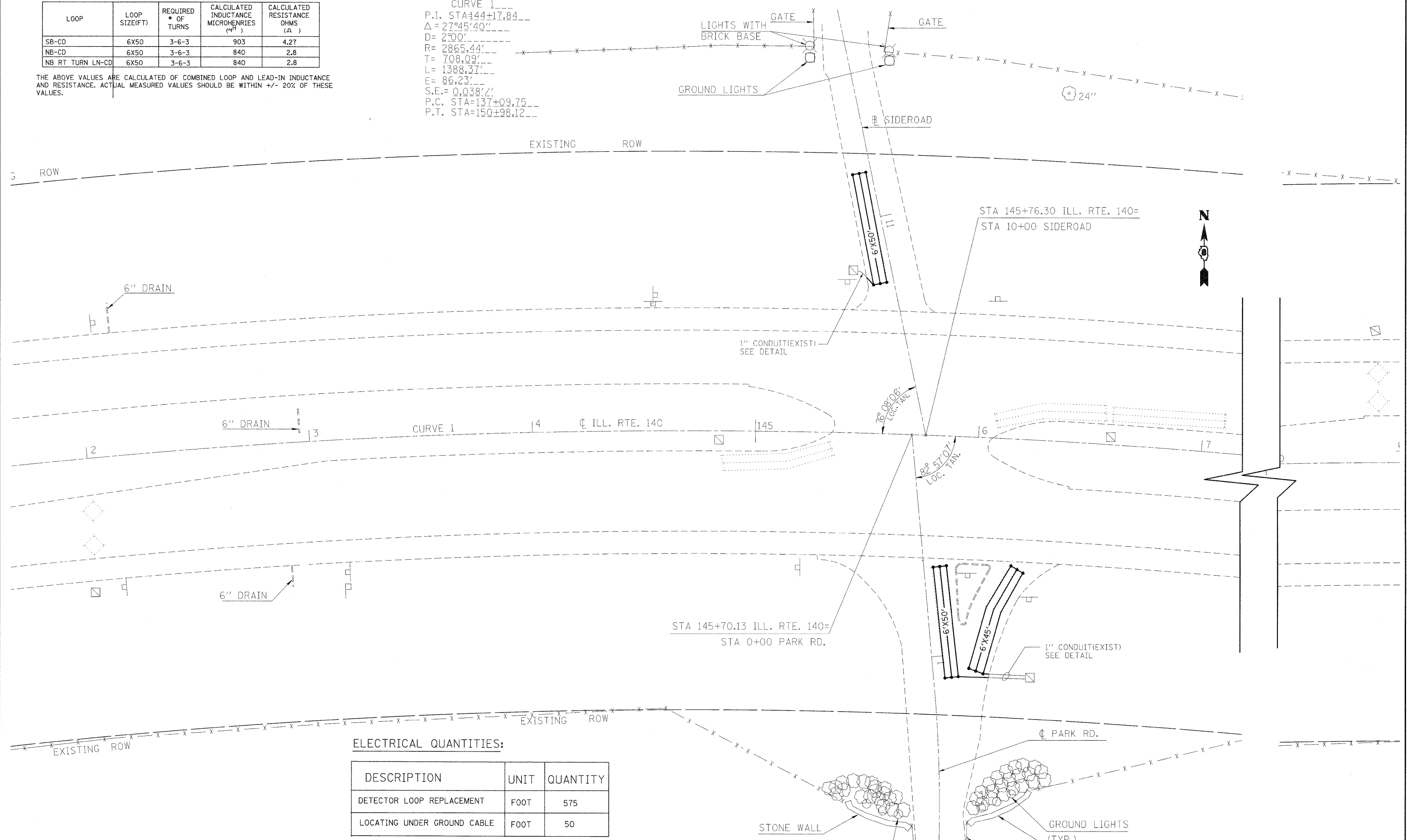


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
SB-CD	6X50	3-6-3	903	4.27
NB-CD	6X50	3-6-3	840	2.8
NB RT TURN LN-CD	6X50	3-6-3	840	2.8

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

CURVE 1  
 P.I. STA=144+17.84  
 $\Delta = 27^{\circ}45'40''$   
 $D = 2^{\circ}00'$   
 $R = 2865.44'$   
 $T = 708.09'$   
 $L = 1388.37'$   
 $E = 86.23'$   
 $S.E. = 0.038\%$   
 P.C. STA=137+09.75  
 P.T. STA=150+98.12



ELECTRICAL QUANTITIES:

DESCRIPTION	UNIT	QUANTITY
DETECTOR LOOP REPLACEMENT	FOOT	575
LOCATING UNDER GROUND CABLE	FOOT	50