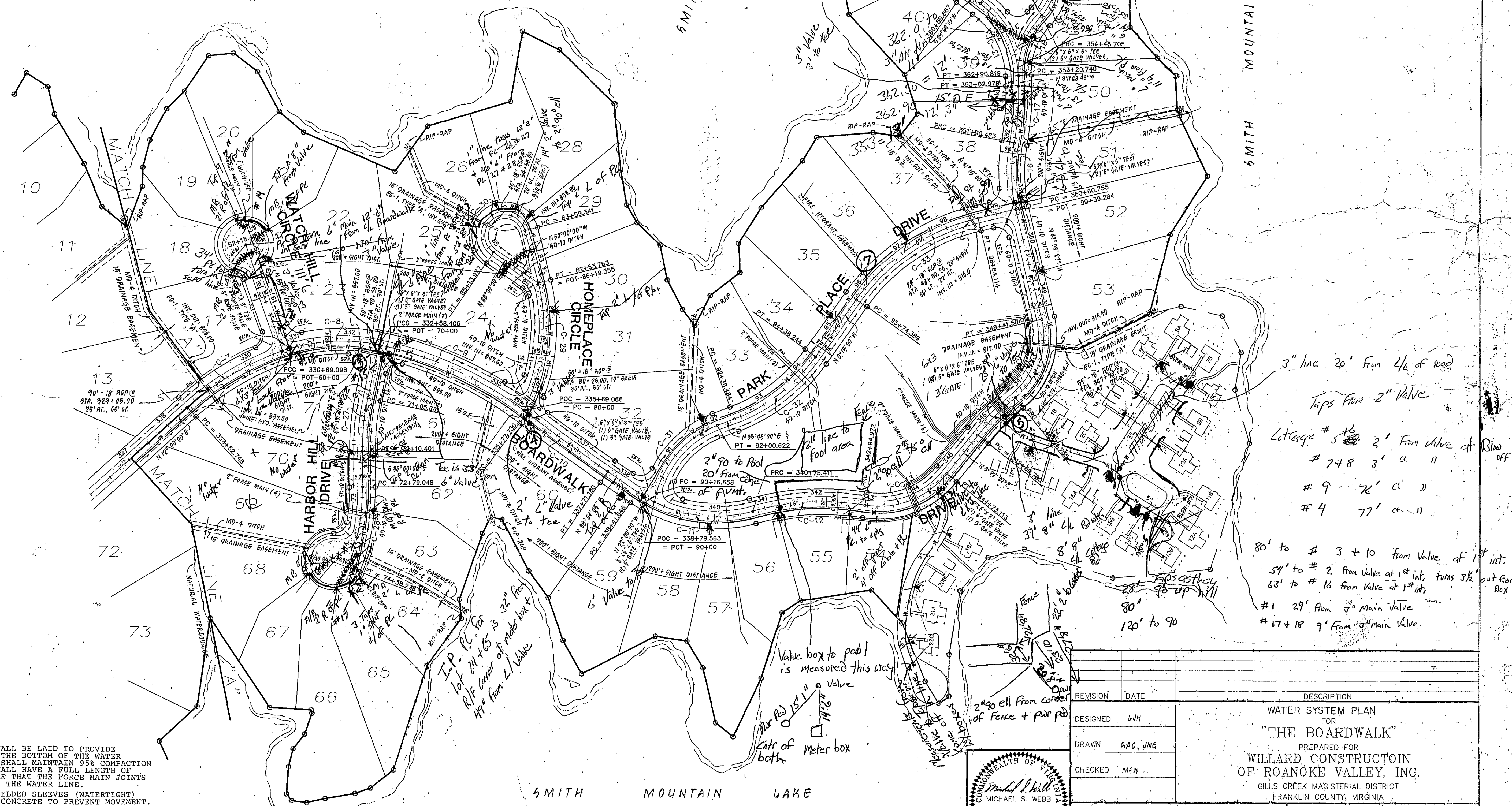


CURVE TABLE							
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING		DELTA
C-7	538.69'	218.35'	109.65'	214.90'	N 59°01'29"	E	23°00'41"
C-8	350.00'	189.31'	97.03'	187.01'	N 50°30'18"	E	30°59'24"
C-9	717.28'	319.32'	162.35'	316.69'	N 78°45'13"	E	25°30'27"
C-10	4251.19'	193.45'	96.74'	193.43'	S 89°47'46"	E	02°36'26"
C-11	266.43'	233.76'	125.01'	226.34'	N 63°45'58"	E	50°16'13"
C-12	500.00'	219.56'	111.58'	217.80'	N 51°12'39"	E	25°09'36"
C-13	168.01'	178.14'	98.47'	169.91'	N 33°24'58"	E	60°44'58"
C-14	481.81'	101.97'	51.17'	101.77'	N 09°06'15"	E	12°07'32"
C-15	151.44'	169.75'	95.04'	161.00'	N 16°56'41"	W	64°13'23"
C-16	310.00'	129.71'	65.82'	128.76'	N 37°04'35"	W	23°58'24"
C-17	500.00'	112.52'	56.50'	112.28'	N 31°32'11"	W	12°53'36"
C-18	155.30'	124.96'	66.09'	122.61'	N 14°46'02"	W	46°06'13"
C-19	109.63'	67.51'	34.86'	66.45'	N 09°21'28"	W	35°17'05"
C-20	120.00'	509.01'	195.69'	204.60'	S 31°29'20"	W	243°02'04"
C-21	173.32'	162.51'	87.39'	156.94'	S 63°45'58"	E	52°13'02"
C-22	500.00'	104.72'	52.55'	104.53'	S 30°00'00"	E	12°00'00"
C-23	500.00'	104.72'	52.55'	104.53'	S 30°00'00"	E	12°00'00"
C-24	420.00'	159.23'	80.58'	158.28'	S 25°26'44"	E	21°43'19"
C-25	350.00'	253.76'	132.75'	248.24'	N 29°13'45"	W	41°32'28"
C-30	40.00'	154.64'	105.58'	74.81'	S 19°15'00"	W	221°30'00"
C-31	189.07'	183.97'	100.00'	176.79'	N 05°52'30"	E	55°45'00"
C-32	340.00'	201.76'	103.95'	198.81'	N 16°45'00"	E	34°00'00"
C-33	400.00'	289.72'	151.55'	283.43'	N 20°30'00"	E	41°30'00"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-7	538.69'	216.35'	109.65'	214.90'	N 59°01'29" E	23°00'41"
C-8	350.00'	189.31'	97.03'	187.01'	N 50°30'18" E	30°59'24"
C-9	717.28'	319.32'	162.35'	316.69'	N 78°45'13" E	25°30'27"
C-10	4251.19'	193.45'	96.74'	193.43'	S 89°47'46" E	02°36'26"
C-11	266.43'	233.76'	125.01'	226.34'	N 63°45'58" E	50°16'13"
C-12	500.00'	219.56'	111.58'	217.80'	N 51°12'39" E	25°09'36"
C-13	168.01'	178.14'	98.47'	169.91'	N 33°24'58" E	60°44'58"
C-14	481.81'	101.97'	51.17'	101.77'	N 09°06'15" E	12°07'32"
C-15	151.44'	169.75'	95.04'	161.00'	N 16°56'41" W	64°13'23"
C-16	310.00'	129.71'	65.82'	128.76'	N 37°04'35" W	23°58'24"
C-17	500.00'	112.52'	56.50'	112.28'	N 31°32'11" W	12°53'36"
C-18	155.30'	124.96'	66.09'	121.62'	N 14°46'02" W	46°06'13"
C-19	109.63'	67.51'	34.86'	66.45'	N 09°21'28" W	35°17'05"
C-20	120.00'	509.01'	195.69'	204.60'	S 31°29'20" W	24°30'02"04"
C-21	173.32'	162.51'	87.35'	156.94'	S 35°48'54" E	52°02'02"
C-22	175.32'	104.72'	52.55'	104.53'	S 30°00'00" E	12°00'00"
C-23	420.00'	159.23'	80.58'	158.28'	S 25°26'44" E	21°43'19"
C-28	350.00'	253.76'	132.75'	248.24'	N 29°13'45" W	41°32'29"
C-30	40.00'	154.64'	105.58'	74.81'	S 19°15'00" W	22°13'00"00"
C-31	189.07'	183.97'	100.00'	176.79'	N 05°52'30" E	55°45'00"
C-32	340.00'	201.76'	103.95'	198.81'	N 16°45'00" E	34°00'00"
C-33	400.00'	289.72'	151.55'	283.43'	N 20°30'00" E	41°30'00"



- 1) FORCE MAINS AND WATER MAINS AND SERVICES SHALL BE LAID TO PROVIDE A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE SEWER. CONTRACTOR SHALL MAINTAIN 95% COMPACTION OVER TOP OF FORCE MAIN. EACH FORCE MAIN SHALL HAVE A FULL LENGTH OF 12" DIA. ENTERED JOINT. ALL JOINTS SHALL BE FULLY COMPACTED. MAIN JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER LINE.
- 2) FORCE MAINS SHALL BE SCHEDULE 40 PVC WITH WELDED SLEEVES (WATERTIGHT). BENDS IN FORCE MAINS SHALL BE BLOCKED WITH CONCRETE TO PREVENT MOVEMENT. FORCE MAINS SHALL BE PRESSURE TESTED TO 50 PSI FOR ONE HOUR WITH NO LEAKS. PERMITS SHALL BE OBTAINED FOR ALL WORK WITHIN A 4-INCH WOODEN POST. FORCE MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE BOARD OF HEALTH SEWERAGE HANDLING AND DISPOSAL REGULATIONS.

REVISION	DATE	DESCRIPTION	
DESIGNED	LWH	WATER SYSTEM PLAN FOR "THE BOARDWALK" PREPARED FOR WILLARD CONSTRUCTOIN OF ROANOKE VALLEY, INC. GILLS CREEK MAGISTERIAL DISTRICT FRANKLIN COUNTY, VIRGINIA	
DRAWN	PAC, JNG		
CHECKED	MW		
LUMSDEN ASSOCIATES, P.C. ENGINEERS - SURVEYORS - PLANNERS ROANOKE, VIRGINIA			
		SCALE: 1" = 100'	COMM: # 89-284
		DATE: 2 JUNE 1995	SHEET 4 of 7