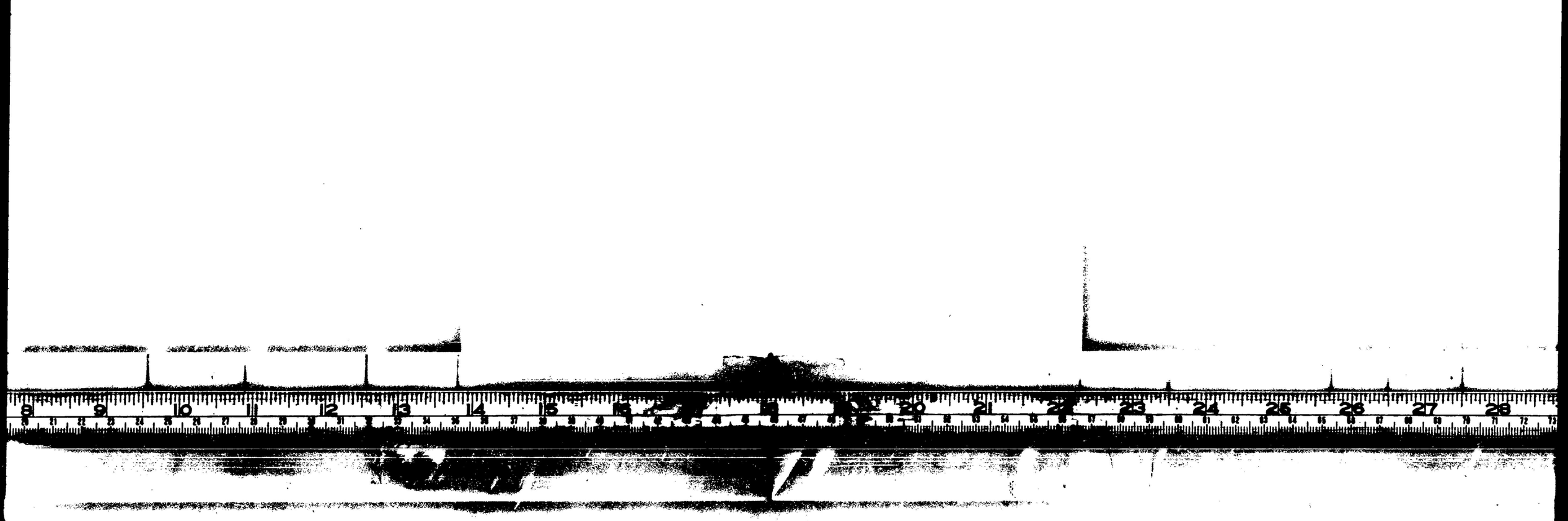
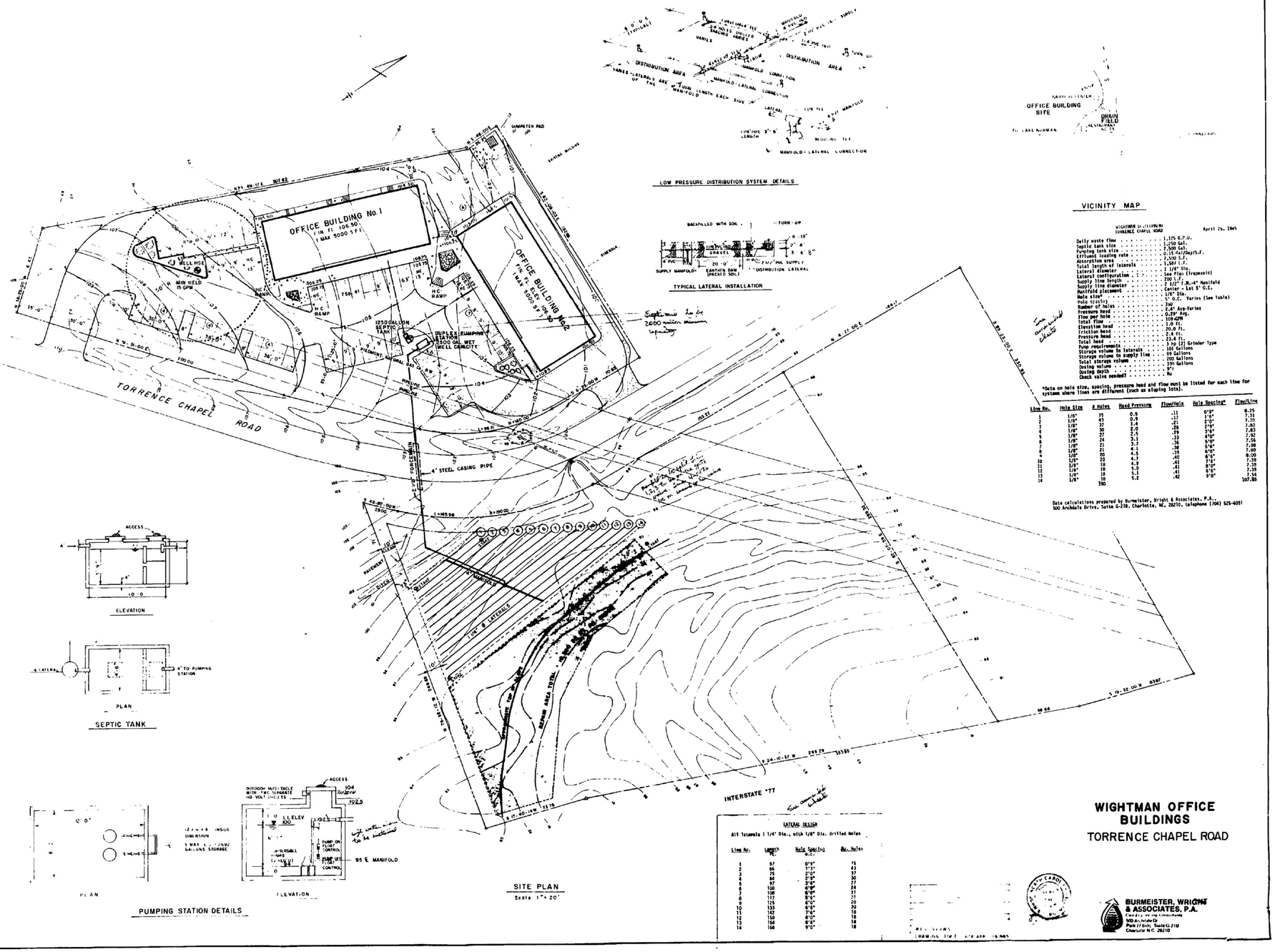
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WIGHTMAN OFFICE BUILDINGS
TORRENCE CHAPEL ROAD
April 25, 1985

Daily waste flow	1,125 G.P.D.
Septic tank size	1,250 Gal.
Pumping tank size	1,500 Gal.
Effluent loading rate	0.15 Gal/Day/S.F.
Absorption area	7,500 S.F.
Total length of laterals	1,587 l.f.
Lateral diameter	1 1/4" Dia.
Lateral configuration	See Plan (Trapezoid)
Supply line length	200 l.f.
Supply line diameter	2 1/2" P.V.C.
Manifold placement	Center - Lat 5' O.C.
Hole size*	1/8" Dia.
Hole spacing	5' O.C. Varies (See Table)
Number of holes	390
Pressure head	0.4# Avg-Varies
Flow per hole	0.287 Avg.
Total flow	109 GPM
Elevation head	1.0 ft.
Friction head	20.0 ft.
Pressure head	2.4 ft.
Total head	23.4
Pump requirements	130 @ Grinder type
Storage volume in laterals	1,100 Gallons
Storage volume in supply line	98 Gallons
Total storage volume	1200 Gallons
Dosing volume	395 Gallons
Dosing depth	4"
Check valve needed?	No

*Data on hole size, spacing, pressure head and flow must be listed for each line for systems where lines are different (such as sloping lots).

Line No.	Hole Size	# Holes	Head Pressure	Flow/Hole	Hole Spacing*	Flow/Line
1	1/8"	25	0.5	.11	0'9"	8.25
2	1/8"	43	0.4	.10	1'6"	7.31
3	1/8"	37	1.6	.21	2'0"	7.70
4	1/8"	30	2.4	.28	2'6"	7.83
5	1/8"	27	3.0	.29	3'0"	7.92
6	1/8"	24	3.3	.30	4'0"	7.56
7	1/8"	21	3.7	.34	5'0"	7.98
8	1/8"	21	4.1	.35	6'0"	7.80
9	1/8"	20	4.5	.39	6'6"	8.00
10	1/8"	20	4.9	.41	7'0"	7.38
11	1/8"	18	5.1	.41	7'6"	7.38
12	1/8"	18	5.3	.41	8'0"	7.38
13	1/8"	18	5.2	.42	9'0"	7.56
14	1/8"	18	5.2	.42	9'0"	107.85
		390				

Data calculations prepared by Burmeister, Wright & Associates, P.A., 500 Archdale Drive, Suite C-218, Charlotte, NC, 28210, Telephone (704) 525-4051

LATERAL DESIGN

All laterals 1 1/4" Dia., with 1/8" Dia. drilled holes

Line No.	Length Ft.	Hole Spacing O.C.	No. Holes
1	97	6'0"	16
2	66	1'1"	63
3	95	2'6"	37
4	84	2'8"	30
5	97	3'6"	27
6	100	4'6"	22
7	108	5'0"	21
8	117	6'0"	20
9	125	6'0"	20
10	133	6'6"	20
11	142	7'6"	18
12	150	8'0"	18
13	158	8'6"	18
14	158	9'0"	18

WIGHTMAN OFFICE BUILDINGS
TORRENCE CHAPEL ROAD

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