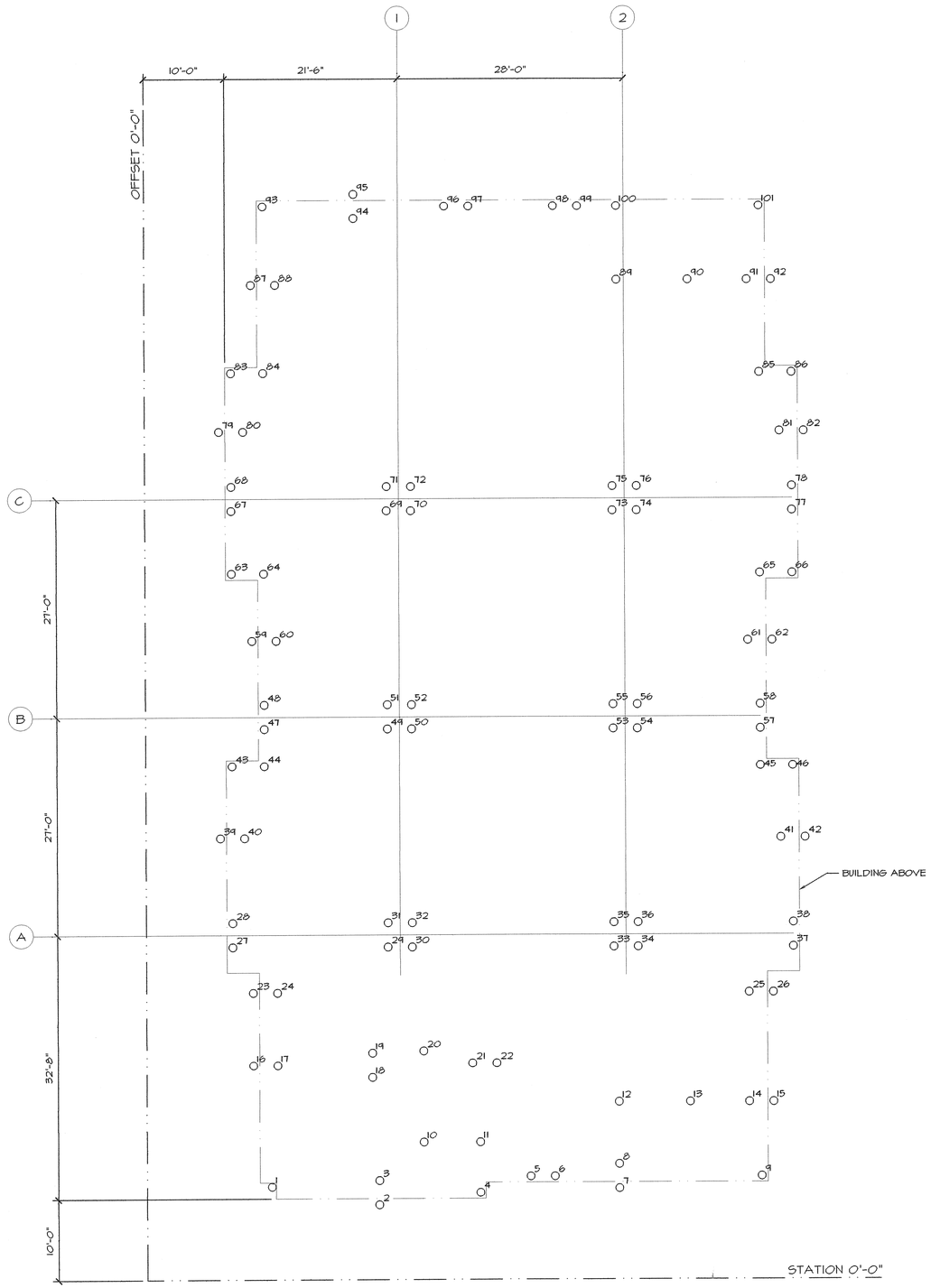

PILE PLAN

1/8"=1'-0"

ALL PILES ARE 25 TON CAPACITY TREATED TIMBER PILES WITH A MINIMUM TIP DIAMETER OF 8".

PILES SHALL BE DRIVEN TO A MINIMUM EMBEDMENT OF 30 FEET INTO NATURALLY DEPOSITED SOIL.

SEE "REPORT ON SUBSURFACE AND FOUNDATION INVESTIGATION" PREPARED BY SEBAGO TECHNICS DATED JULY 27, 2005 FOR ADDITIONAL INFORMATION AND PILE DRIVING CRITERIA.

DESIGN CRITERIA:

BUILDING CODE INTERNATIONAL BUILDING CODE/2003

LIVE LOAD	
DWELLING UNITS	40 PSF
PUBLIC CORRIDORS AND STAIRS	100 PSF
DEAD LOAD	
2ND FLOOR	95 PSF
3RD & 4TH FLOORS	21 PSF
ROOF	21 PSF
SNOW LOAD	
GROUND SNOW LOAD	60 PSF
EXPOSURE FACTOR, Ce	1.0
THERMAL FACTOR, Ct	1.0
IMPORTANCE FACTOR, Is	1.0
FLAT ROOF SNOW LOAD, Pf	42 PSF
WIND LOAD	
BASIC WIND SPEED (3 SEC GUST)	100 MPH
BASIC VELOCITY PRESSURE, Pv	18.5 PSF
IMPORTANCE FACTOR, Iw	1.0
EXPOSURE	C
BUILDING CATEGORY	I
EARTHQUAKE DESIGN DATA (ASCE 7-02)	
OCCUPANCY IMPORTANCE FACTOR, Ie	1.0
SEISMIC USE GROUP	I
SHORT PERIOD SPECTRAL ACCELERATION, Ss	0.37
1 SEC PERIOD SPECTRAL ACCELERATION, S1	0.10
SITE CLASS	E
SHORT PERIOD 5%DAMPED SPECTRAL RESPONSE ACCELERATION, Sds	0.52
1 SEC 5% DAMPED SPECTRAL RESPONSE ACCELERATION, Sd1	0.23
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC FORCE RESISTING SYSTEM	LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
DESIGN BASE SHEAR	212 KIPS
RESPONSE MODIFICATION FACTOR, R	6
DEFLECTION AMPLIFICATION FACTOR, Cd	4
SYSTEM OVERSTRENGTH FACTOR, Ω0	3
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

TIMBER PILE SCHEDULE

PILE #	STATION	OFFSET	CUTOFF ELEVATION	PILE #	STATION	OFFSET	CUTOFF ELEVATION
1	11'-6"	15'-6"	16'-6"	51	71'-2"	30'-0"	16'-8"
2	9'-3"	28'-10"	16'-6"	52	71'-2"	33'-0"	16'-8"
3	12'-3"	28'-10"	16'-6"	53	68'-2"	58'-0"	16'-8"
4	10'-9"	41'-4"	16'-6"	54	68'-2"	61'-0"	16'-8"
5	12'-9"	47'-7"	17'-2"	55	71'-2"	58'-0"	16'-8"
6	12'-9"	50'-7"	17'-2"	56	71'-2"	61'-0"	16'-8"
7	11'-3"	58'-7"	17'-2"	57	68'-2"	76'-3"	17'-2"
8	14'-3"	58'-7"	17'-2"	58	71'-2"	76'-3"	17'-2"
9	12'-9"	76'-3"	17'-2"	59	79'-1"	13'-3"	17'-2"
10	17'-0"	34'-4"	15'-8"	60	79'-1"	16'-3"	17'-2"
11	17'-0"	41'-4"	15'-8"	61	79'-1"	74'-9"	17'-2"
12	21'-11"	58'-7"	17'-2"	62	79'-1"	77'-9"	17'-2"
13	21'-11"	67'-5"	17'-2"	63	87'-5"	10'-9"	17'-2"
14	21'-11"	74'-9"	17'-2"	64	87'-5"	14'-9"	17'-2"
15	21'-11"	77'-9"	17'-2"	65	87'-5"	76'-3"	17'-2"
16	26'-6"	13'-3"	16'-6"	66	87'-5"	80'-0"	17'-2"
17	26'-6"	16'-3"	16'-6"	67	95'-2"	10'-9"	17'-2"
18	25'-0"	28'-0"	16'-6"	68	98'-2"	10'-9"	17'-2"
19	28'-0"	28'-0"	16'-6"	69	95'-2"	30'-0"	16'-8"
20	28'-3"	34'-4"	15'-8"	70	95'-2"	33'-0"	16'-8"
21	26'-9"	40'-5"	15'-8"	71	98'-2"	30'-0"	16'-8"
22	26'-9"	43'-5"	15'-8"	72	98'-2"	33'-0"	16'-8"
23	35'-6"	13'-3"	17'-2"	73	95'-2"	58'-0"	16'-8"
24	35'-6"	16'-3"	17'-2"	74	95'-2"	61'-0"	16'-8"
25	35'-6"	74'-9"	17'-2"	75	98'-2"	58'-0"	16'-8"
26	35'-6"	77'-9"	17'-2"	76	98'-2"	61'-0"	16'-8"
27	44'-2"	10'-9"	17'-2"	77	95'-2"	80'-3"	17'-2"
28	44'-2"	10'-9"	17'-2"	78	98'-2"	80'-3"	17'-2"
29	41'-2"	30'-0"	16'-8"	79	105'-0"	9'-3"	17'-2"
30	41'-2"	33'-0"	16'-8"	80	105'-0"	12'-3"	17'-2"
31	44'-2	30'-0"	16'-8"	81	105'-0"	78'-9"	17'-2"
32	44'-2"	33'-0"	16'-8"	82	105'-0"	81'-9"	17'-2"
33	41'-2"	58'-0"	16'-8"	83	112'-3"	10'-9"	17'-2"
34	41'-2"	61'-0"	16'-8"	84	112'-3"	14'-9"	17'-2"
35	44'-2	58'-0"	16'-8"	85	112'-3"	76'-3"	17'-2"
36	44'-2"	61'-0"	16'-8"	86	112'-3"	80'-3"	17'-2"
37	41'-2"	80'-3"	17'-2"	87	123'-2"	13'-3"	17'-2"
38	41'-2"	80'-3"	17'-2"	88	123'-2"	16'-3"	17'-2"
39	54'-8"	9'-3"	17'-2"	89	123'-9"	58'-7"	17'-2"
40	54'-8"	12'-3"	17'-2"	90	123'-9"	67'-5"	17'-2"
41	54'-8"	78'-9"	17'-2"	91	123'-9"	74'-9"	17'-2"
42	54'-8"	81'-9"	17'-2"	92	123'-9"	77'-9"	17'-2"
43	63'-7"	10'-9"	17'-2"	93	132'-11"	14'-9"	17'-2"
44	63'-7"	14'-9"	17'-2"	94	131'-5"	26'-0"	17'-2"
45	63'-7"	76'-3"	17'-2"	95	131'-5"	26'-0"	17'-2"
46	63'-7"	80'-3"	17'-2"	96	132'-11"	37'-3"	17'-2"
47	68'-2"	14'-9"	17'-2"	97	132'-11"	40'-3"	17'-2"
48	71'-2"	14'-9"	17'-2"	98	132'-11"	50'-9"	17'-2"
49	68'-2"	30'-0"	16'-8"	99	132'-11"	53'-9"	17'-2"
50	68'-2"	33'-0"	16'-8"	100	132'-11"	58'-7"	17'-2"
				101	132'-11"	76'-3"	17'-2"

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Project:
VALLEY STREET APARTMENTS
GILMAN STREET
PORTLAND, MAINE 04102

Date: 11/18/05

Scale: 1/8"=1'-0"

Drawing:
PILE LAYOUT PLAN
GENERAL NOTES

S.1