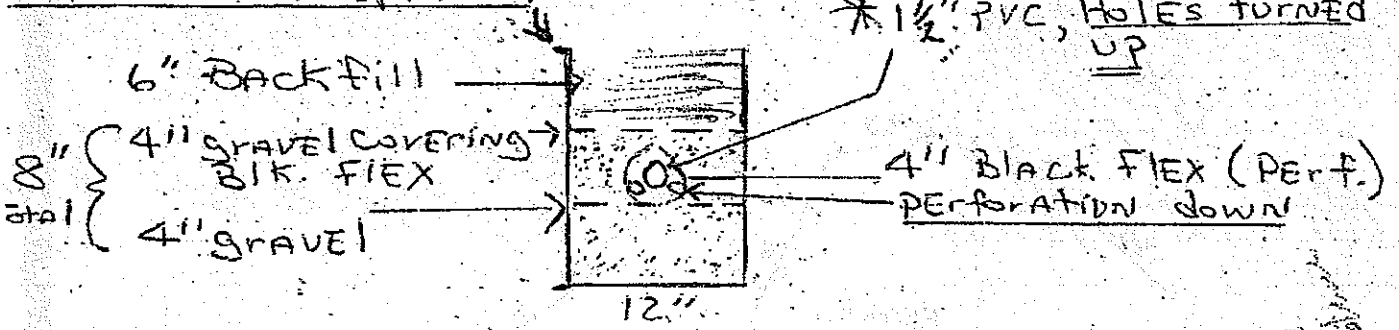
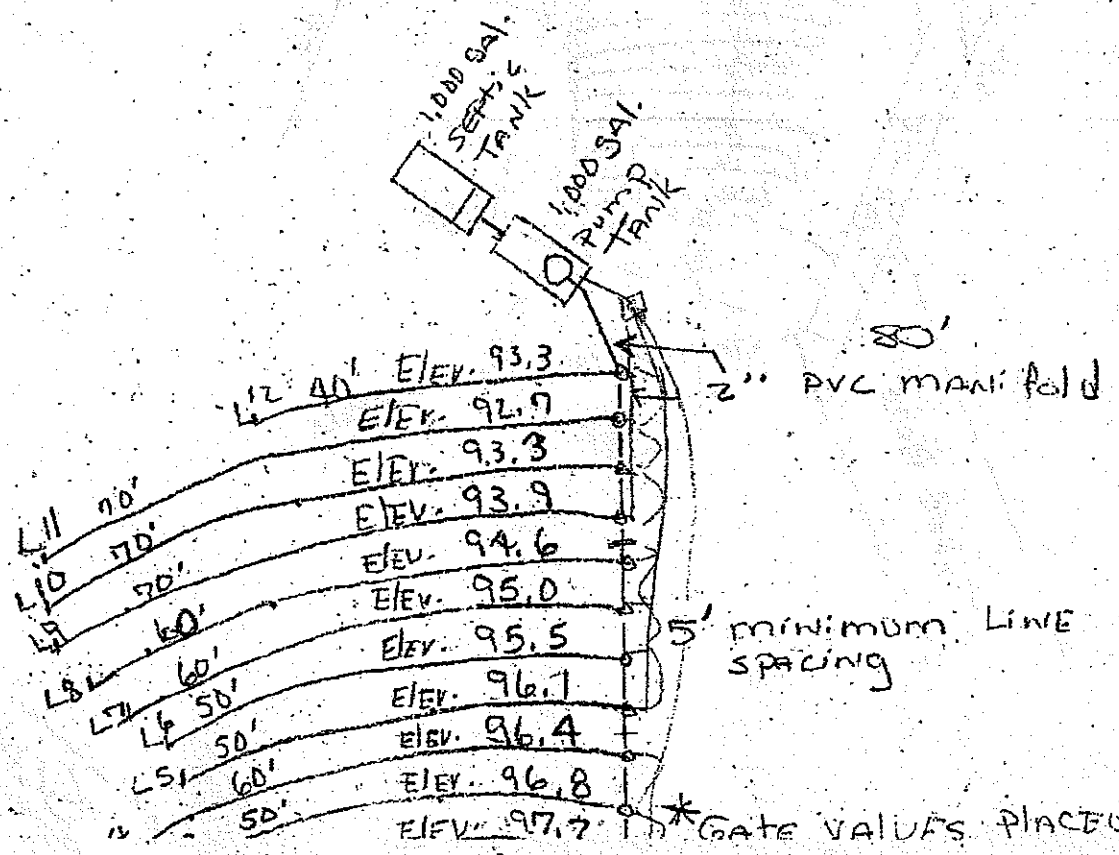
Trench Profile

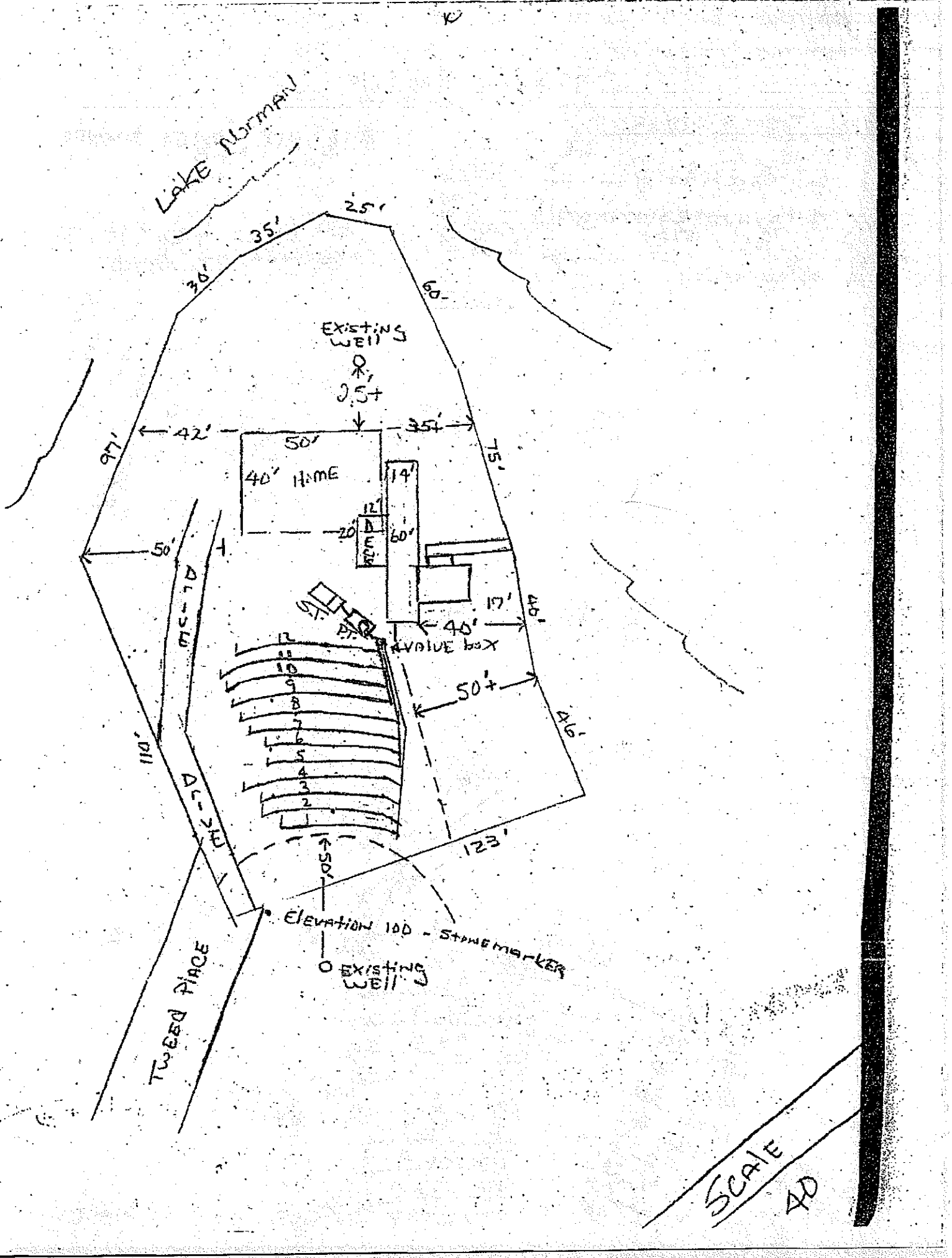
Total Trench Depth 14"



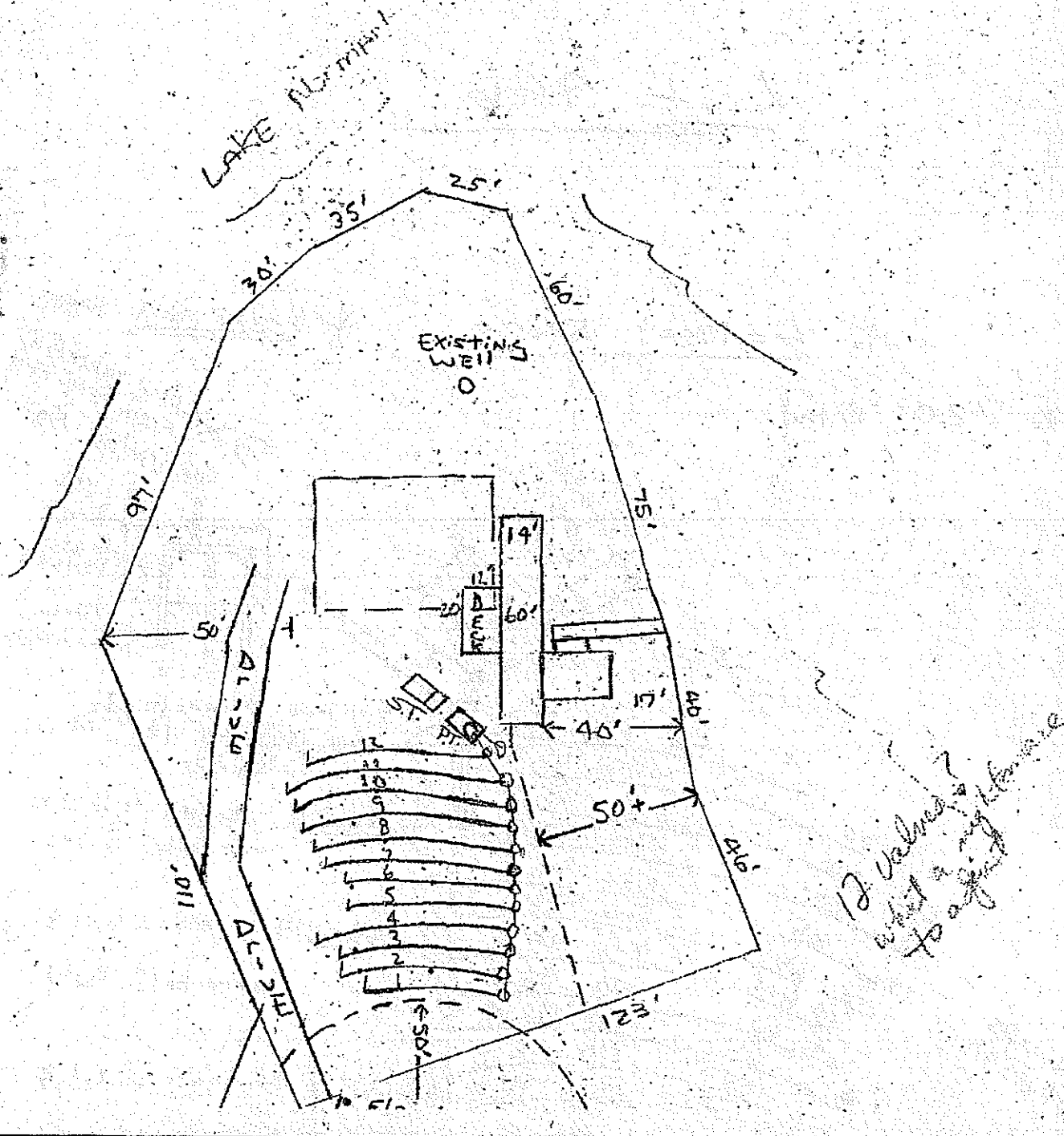
Lot 446

Lateral Specs



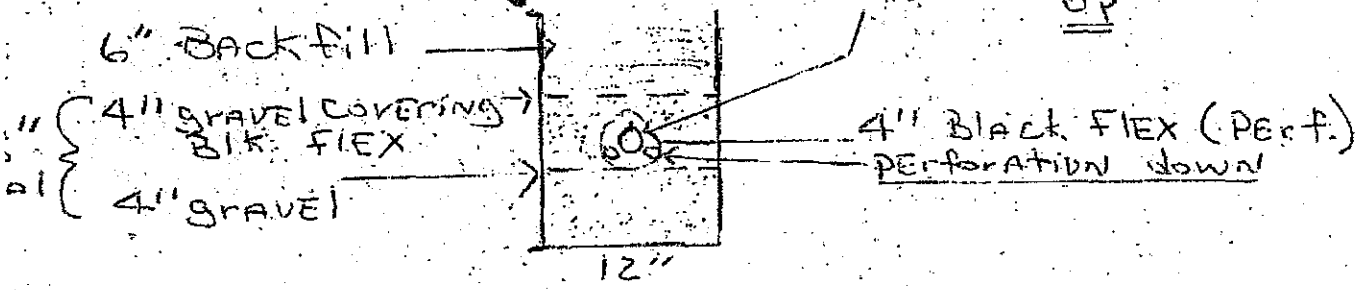

Lake Norman
25'
35'
30'
60'
EXISTING WELL
9.5+
97'
42'
50'
35'
75'
40' HOME
14'
12'
20'
DECK
60'
50'
17'
40'
40'
AVOIVE box
50'+
46'
110'
DRIVE
12
11
10
9
8
7
6
5
4
3
2
1
50'
123'
ELEVATION 100 - STONE MARKER
EXISTING WELL
TWEED PLACE
SCALE
40

Lot 246


LAKE Allatoona
25'
35'
30'
60'
EXISTING WELL
91'
75'
19'
12'
DECK
20'
60'
50'
17'
40'
40'
50'+
46'
110'
ALLEY
ALLEY
12 3/4'
50'
12 Valves
with 2 Spigots

Trench Profile

Total Trench Depth 14"

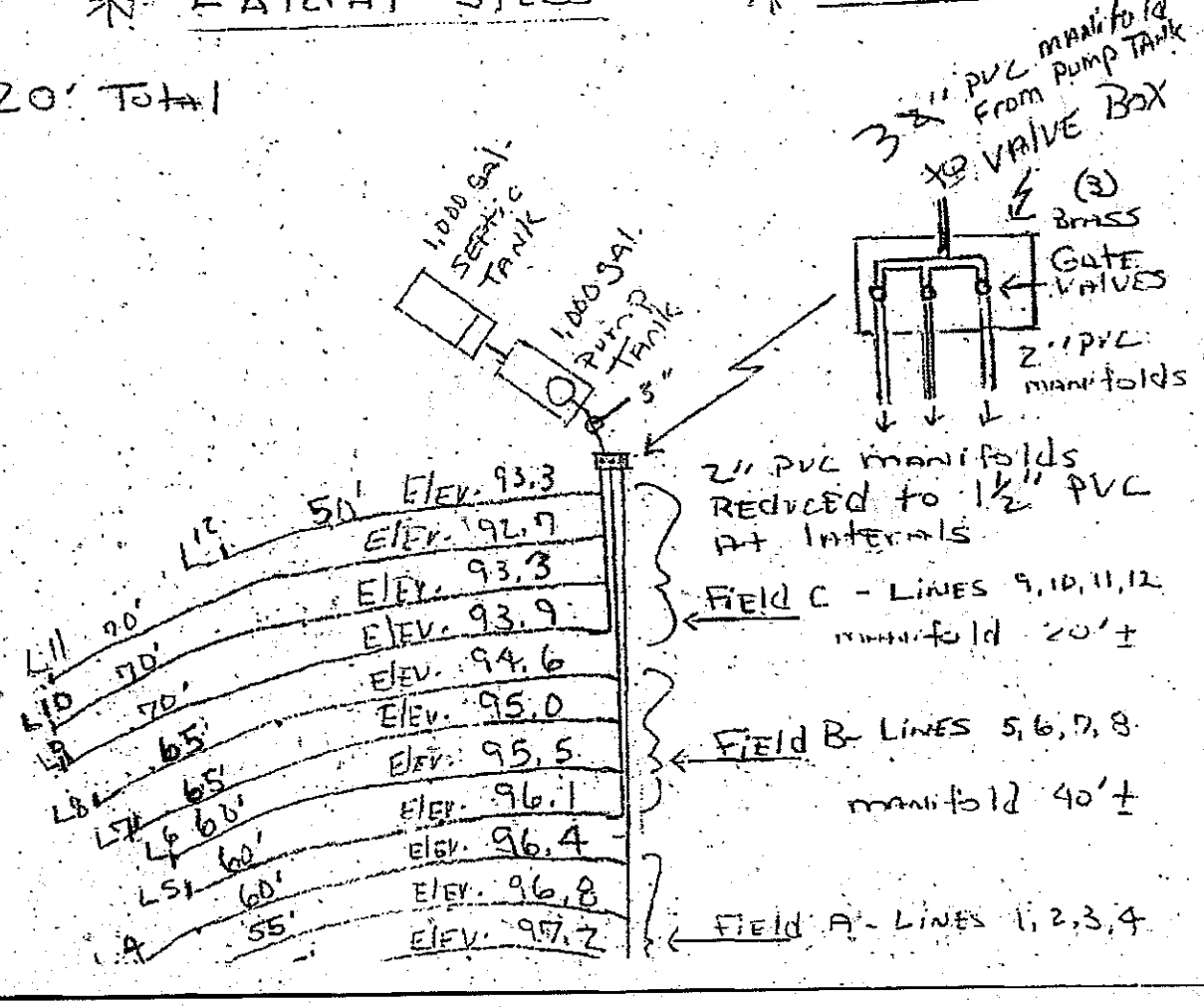


Lot 446

* Lateral Specs

* 720' Total

* Valve Box Specs



Turn-ups 10 of Each

OK DWA

LINE	#HOLES PER LINE	HOLE SIZE	HOLE SPACE START sp.	HOLE SPACE START st.	LINE HEAD	LINE LENGTH	HOLE FLOW	PER MIN. LINE FLOW	LOAD. PER. FT.^{2}
L 1	6	3/16	6	4'	3	40'	.72	4.32	.108
L 2	10	5/32	5.5	2'	3.4	55'	.532	5.32	.096
L 3 } C	9	5/32	5.7	3'	3.8	55'	.564	5.64	.092
L 4	9	5/32	6.2	4'	4.2	60'	.592	5.92	.089
L 5	9	3/16	6.4	2'	3	60'	.72	6.48	.108
L 6 } B	11	5/32	5.2	2'	3.6	60'	.548	6.03	.100
L 7	11	5/32	5.7	2'	4.1	65'	.586	6.45	.099
L 8	10	5/32	6	5'	4.5	65'	.61	6.71	.094
L 9	10	3/16	6.5	5'	3	70'	.72	7.2	.102
L 10 } A	12	5/32	5.6	2'	3.6	70'	.548	6.58	.094
L 11	10	5/32	6.4	6'	4.2	70'	.592	5.92	.085
L 12	7	5/32	6.4	5'	(3.6) Figure 1.2	50'	.592	4.14	.083
Totals	~~102~~ 114					720' ✓		70.71 g.p.m. ✓	

Lot 446 & Sect 8

from plan Approx 15' 2" sch 40 to valve box
20' " 4 Lowest subfield
45' " 2nd "
75' " upper subfield
155' 2" sch 40

Dosing Volume = V supply + 5 (V. laterals)

= (155)(16.2) + (5)(7.2)(9.2)

= 25.1 + 331.2

= 356.3

Approx 1 dose per day

CHK Valve .25 X 356.3 = 89.1

(Vs) 25.1 < 89.1 No chk valve required

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① In future, include calculation sheet
② Also start w/ 2' ph - this will help to keep pump reg to a minimum

OK on this system to use 2' wide trenches vs 1' wide if owner & installer desire to do so (still on 5' centers). This would significantly increase system life expectancy and work in favor of the owner since there is no repair area.