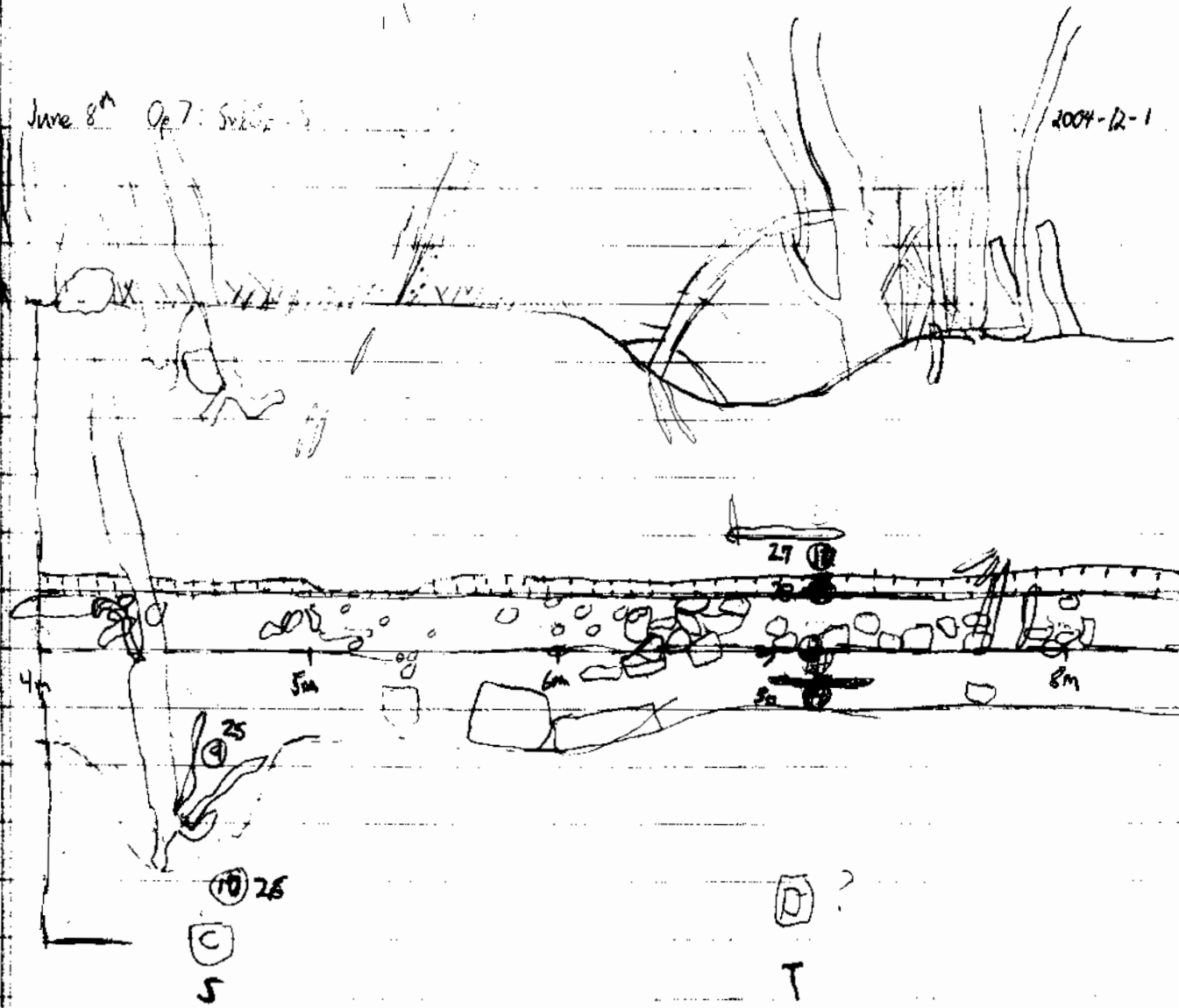
2004

EPV 012 Levan Field Notes 2004

Lawrence Levan

Tues. June 8th Op 7: Sw[illegible]

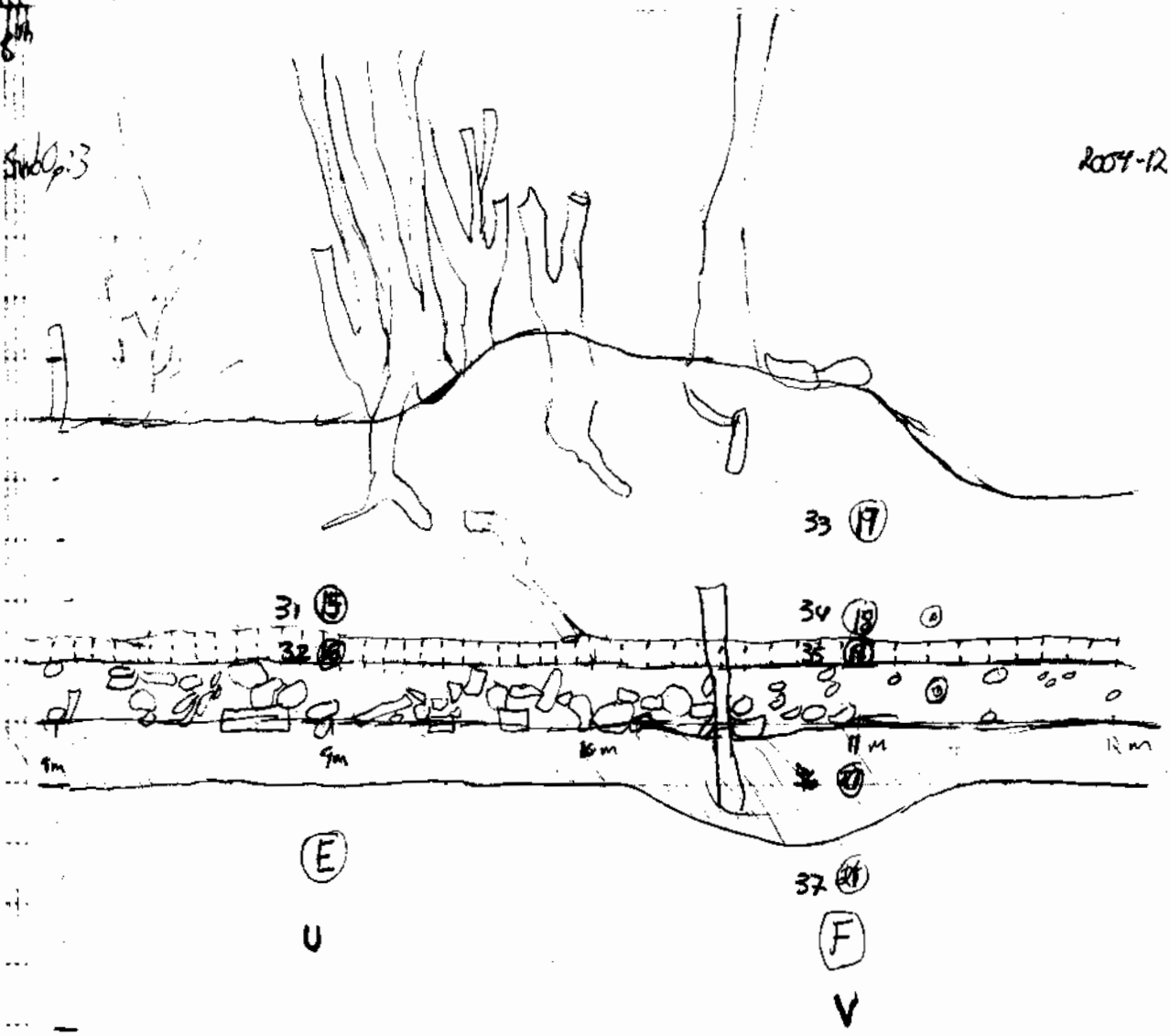
2004-12-1



June 6th

Op 7: SubOp: 3

2004-12-2



Labeling

Op: 7 SubOp: 3 [A, B, C, D, E, F]

Lot: 1 - 21 A: 1-5, B: 6-8, C: 9-10 : D: 11-14, E = 15-16, F = 17-21

6/8/04

Methodology: Using a tape measure and starting at an arbitrary point zero in the southwest corner of the south profile, 1m increments were labeled using pink flags. Points from where soil samples will be taken were marked w/ yellow flags By units (ie. aligned vertically within a unit); 6 units (A-F) were

organic material below the sub-floor. Lot 4 = yellowish/orange supposedly river sediment. Lot 5 = organic layer (dark) above plaster e sub-flooring. Unit A will give a nice sampling of all the available layers seen. Unit B had 3 poin Lot 6 was the organic layer (dark), Lot 7 was a greyish/plaster like material that blended into the plaster layer (Lot 8). Unit C was taken at a point whe the dark organic material (below the sub-flooring) penetrated deep into the yellow soil sediment layer (possibly due to the tree whose roots extend into the area Lot 9 is the organic material and Lot 10 is the yellowish sediment at th interface. Unit D had four points indicating profiles ~~like this~~ except for the presence of a reddish thin layer that appears between the organic lay below the sub-floor and the yellowish sediment. Lot 11 = soil above sub-floori plaster, Lot 12 = sub-flooring (i.e. plaster), Lot 13 = soil above reddish line and Lot 14 = reddish line. This reddish line is found only here on the southern profile and has baffled the project leaders. This reddish line is below the sub-fl which is the confusing part since it occurs prior to settlement. It reminds me of the red plaster for building that is used on the surface.

Unit E had two points Lot 16 was the plaster layer e Lot 15 was the soil that lies above the plaster layer. Unit F had five points indicating points similar to Unit A. Lot 17 = organic layer (dark), Lot 18 = soil just above the plaster, Lot 19 = plaster layer, Lot 20 = dark organic material the lies below the sub-floor, Lot 21 = yellowish sediment layer.

The main points of interest are sub-flooring layer and soil just above the sub-fl layer. The phosphate readings obtained here will be compared to the levels in both organic layers & yellowish sediment to see if the phosphorous is significantly higher. It is possible that there may have been phosphorous leaching

be high in these areas. The project today reached 12m of the southern profile before it started to rain heavily and working ceased.

To make sure that soils remained w/ their levels when taking samples. Samples were taken from the ground→up. That was, debris from upper layers won't fall and contaminate lower layers. To clean the trowel before each use, the entire length of the blade was inserted into the level to be sampled that was not at the point of the sampling. (re. same level)

June 9th Wednesday

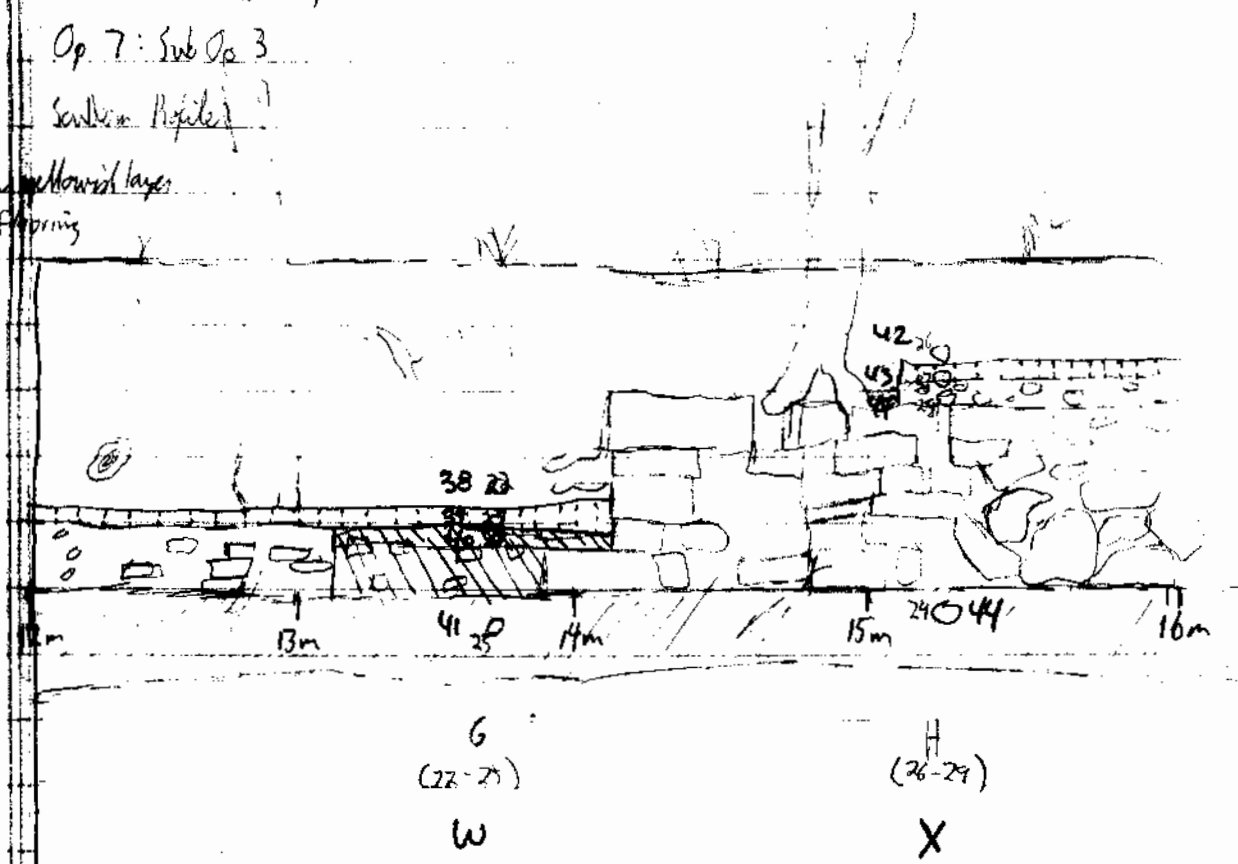
2004 - 12 - 5

Op 7 : Sub Op 3

Southern Profile

= new sediment layer

= sub-flooring



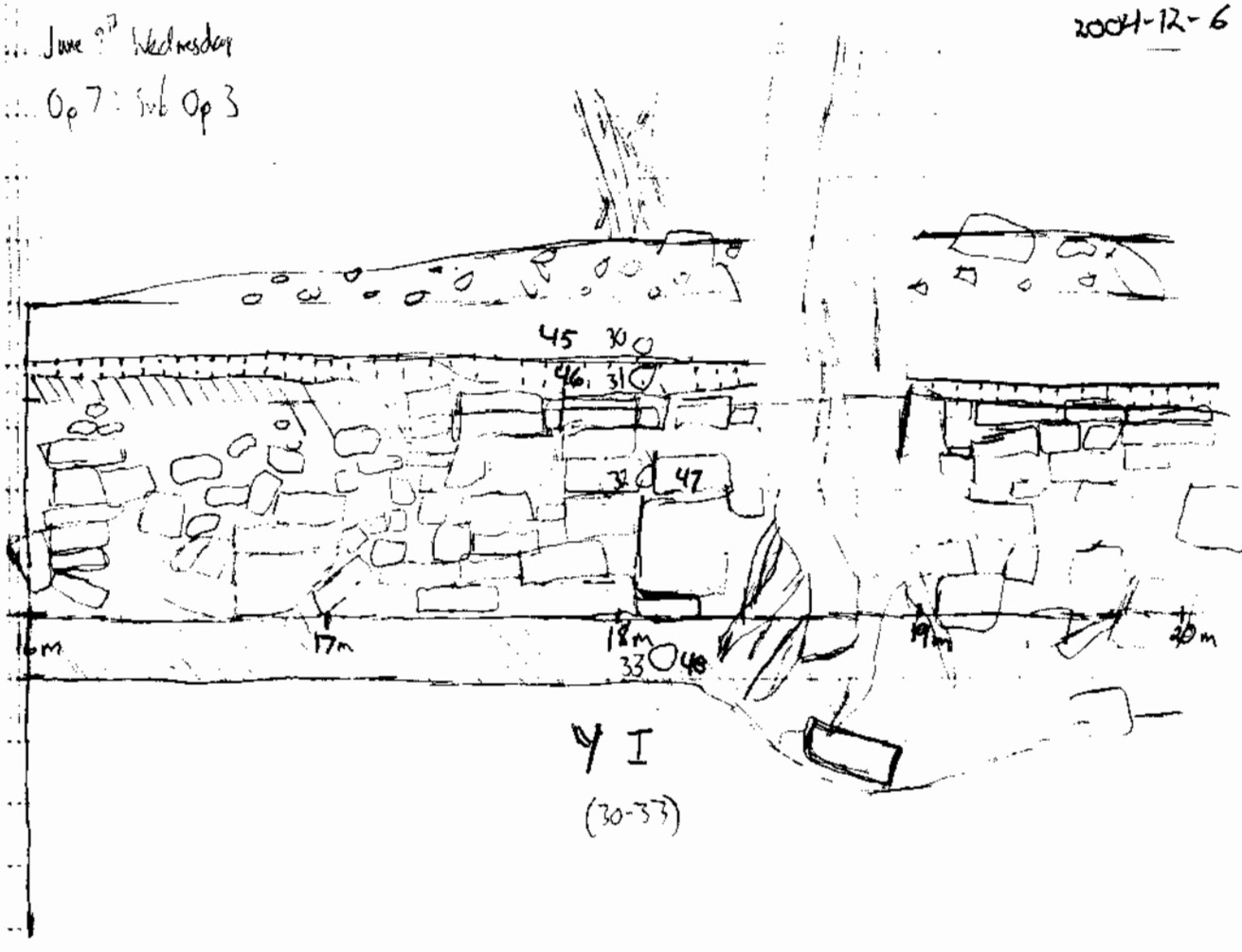
G : Continued same thing as yesterday, took 4 points at unit G : 22/23 = soil above + at subfloor level, 24 = reddish line/layer that appears before the expected dark-organic layer 25 = dark organic layer as the criteria

H : 26/27 = soil above + at subfloor level 28 = rocky layer below sub-floor that is not in G. It does not have the reddish layer that G has.
29 is the dark organic layer.

2004-12-6

June 9th Wednesday

Op 7 : Sub Op 3



Unit I continues w/ the raise in stone elevation that appeared in 15-16m

Lot 30/31 = floor above/at subfloor

Lot 32 = soil sample taken from below the subfloor

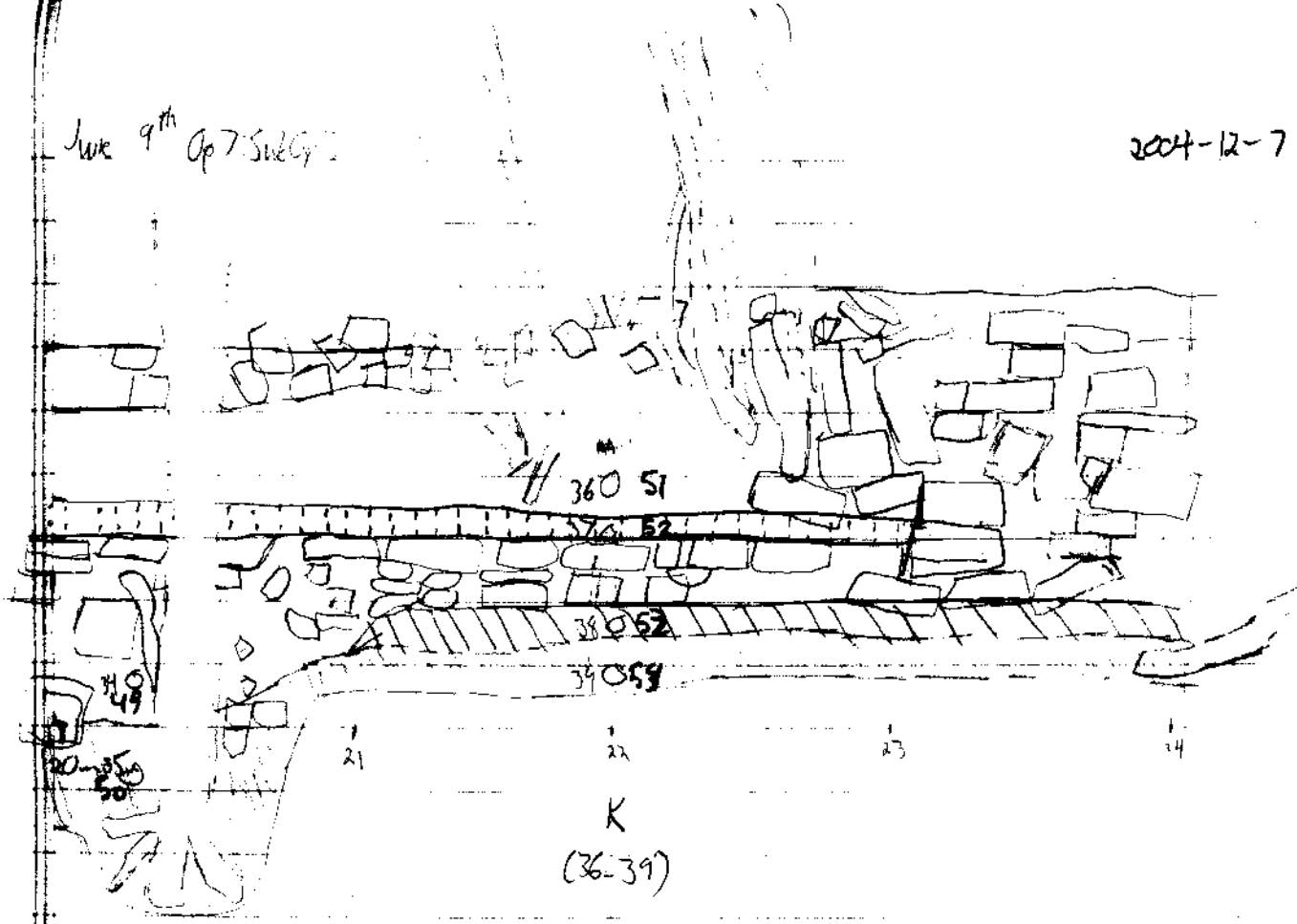
Lot 33 = soil taken in the dark organic layer

At the bottom is the appearance of a recent/modern deposition of stones

Do roots of trees concentrate phosphorus? If so, samples taken near the roots will have an artificially high concentration of phosphorus

Luke 9th Op 7 Site Gr

2004-12-7



Unit J just tests the interface between a deeper (35) organic layer and the layer below the subfloor (34).

Unit K: Lot 36/37 = soil taken at the subfloor level; Lot 38 = sample of the reddish layer that appears again. Lot 39 is the dark organic layer that appears throughout.

This reddish layer that keeps appearing; could it be involved in the flooring of certain areas?

2004-12-8

June 10th soil testing ; No electricity = no balance to weigh the 2 grams of soil for testing; Soil analysis
Soil chart.

Op 7 : SubOp 3

A

Lot : 1 : not gritty sandy / stain ; smooth/silky ; sticky : clayey silt ; Munsell 10YR 4/2 dark grayish brown

Lot : 2 ; Sandy : ~~sandy~~ no ball ; ~~silty~~ : fine sand ; Munsell : 2.5Y 7/8 yellow

Lot : 3 : gritty : ball ; form V : clayey sand ; Munsell : 10YR 4/4 dark yellowish brown

Lot 4 : ~~not gritty~~/sandy ; no stain ; sandy clay : Munsell : 10YR 5/8 yellowish brown

Lot 5 : gritty ; no ball ; coarse sand ; 10YR 5/3 brown

B

Lot 6 :

Lot 7 : not sandy/gritty ; no stain ; not sticky/hard to rub ; sandy clay : 10YR 6/2 light brownish grey

Lot 8 : not sandy/gritty ; no stain ; not sticky/hard to rub ; sandy clay 10YR 7/2 light grey (two clusters Lot 7)

Lot 9 : gritty ; ball ; V : clayey sand ; 10YR 4/4 dark yellowish brown

C

Lot 10 not gritty/sandy ; no stain ; sandy clay ; 10YR 5/6 yellowish brown

2004-12-9

D

Lot 11 : not gritty/sandy ; stain : smooth/silky ; sticky : clayey silt Munsell 10YR 4/2 dark

Lot 12 sandy ; no ball : fine sand ; Munsell : 2.5Y 7/8 yellow

Lot 13 not gritty/sandy ; no stain ; sticky : clay : 10YR 4/4 dark yellowish brown

Lot 14 not gritty/sandy : no stain, sticky ; clay ; 10YR 3/4 dark-yellowish br

E

Lot 15 : not gritty/sandy no stain ; not sticky ; sandy clay ; Munsell 10YR 5/3 brown

Lot 16 sandy ; no ball fine sand ; Munsell : 2.5Y 7/8 yellow

F

Lot 17 gritty : ball , no V silty sand Munsell : 10YR 4/3 brown

Lot 18 not gritty/sandy , stain : smooth/silky , sticky : clayey silt ; Munsell 10YR 4/2 dark gray brown

Lot 19 sandy ; no ball , fine sand ; Munsell 2.5Y 7/8 yellow

Lot 20 not gritty/sandy ; no stain , sticky : clay 10YR 3/4 dark-yellowish brown

Lot 21 not sandy/gritty : no stain , sandy clay ; Munsell : 10YR 5/6 yellow brown

2004-12-10

G. Lot 22 : not gritty/sandy ; no stain ; not sticky ; sandy clay Munsell : 10YR 4/3 brown

Mixture Lot 23 :

Lot 24 not gritty/sandy ; no stain ; not sticky ; sandy clay . Munsell : 10YR 3/4 dark yellowish brown

Lot 25 not gritty/sandy ; no stain ; not sticky ; sandy clay . Munsell : 10YR 4/3 brown

H Lot 26 not gritty/sandy ; no stain ; not sticky ; sandy clay ; Munsell 10YR 4/3 brown

Lot 27 gritty ; no stain : coarse sand ; Munsell 2.5Y 7/6 yellow

Lot 28 not gritty ; no stain ; not sticky : sandy clay ; Munsell 10YR 4/6 dark yellowish b

Lot 29 not gritty ; no stain , not sticky . sandy clay ; Munsell 10YR 4/3 brown

I Lot 30 not gritty ; no stain ; not sticky ; sandy clay ; Munsell 10YR 4/3 brown

(w/charcoal little) Lot 31 not gritty ; no stain ; not sticky ; sandy clay ; Munsell 10YR 4/3 brown

Lot 32 not gritty ; no stain ; not sticky ; sandy clay ; Munsell 10YR 5/6 yellowish b

Lot 33 not gritty ; no stain ; not sticky ; sandy clay ; Munsell 10YR 4/3 brown

2004-12-11

J Lot 34 not gritty; no stain; not sticky; sandy clay Munsell 10YR 4/2 dark grayish brown

Lot 35 not gritty; no stain; not sticky; sandy clay Munsell 10YR 4/2 dark grayish brown

K Lot [illegible] not gritty; no stain; not sticky; sandy clay, Munsell 10YR 4/3 brown

Lot [illegible] gritty; no ball; coarse sand; Munsell: 2.5 Y 7/8 yellow

Lot 35 not gritty; no stain; not sticky; sandy clay; Munsell. 10 YR 4/4 dark yellowish brown

Lot 39 gritty; ball; no V; silty sand; Munsell. 10 YR 5/3 brown

There seems to be a problem of trying to obtain/keep the samples dry. The plastic bags keep water out but condensation products (water) are being kept in, especially in the corners, where the liquids are unable to escape. Added to this problem is the fact that most of the soils seem to be very clay-like and I'm wondering whether they retain their water better. Being fine silt, they have more surface area per unit volume to keep/attach liquid. Hence to obtain dry soils I have to let the sun bake them, then obtain my sample from the middle where it appears driest.

2004-12-12

June 11 : Friday

Phosphorus :

Standard

	Mass
Lot 1 :	2.0g
Lot 2 :	2.0g
Lot 3 :	2.0g
Lot 4 :	2.0g
Lot 5 :	2.0g
Lot 6 :	
Lot 7 :	2.0g
Lot 8 :	2.0g
Lot 9 :	2.0g
Lot 10 :	2.0g
Lot 11 :	2.0g
Lot 12 :	2.0g
Lot 13 :	2.0g
Lot 14 :	2.0g
Lot 15 :	2.0g
Lot 16 :	2.0g
Lot 17 :	2.0g
Lot 18 :	2.0g

2004-12-13

Mass

Lot 20: 2.0g

Lot 21: 2.0g

Tap water phosphate kit

distilled water = ctrl

tap water = 0.18 mg/L

Washing/Rinsing

distilled water = ctrl

distilled water + tap water water cuvette = 0.03 mg/L

Ctrl = 10mL of Molybdate Reagent + Phosver 3 = zero

Lot 1: (dil 10x w/ dist. H_2O) : 0.01 mg/L 2nd read: 0.01 mg/L (after Lot 3)

Lot 2: 0.08 mg/L

Lot 3: 0.26 mg/L

Lot 4: 0.13 mg/L

Lot 5: 0.11 mg/L

mg/L x 6 mg/L → mg/kg

x.25

Lot 6:

Lot 7: 0.17 mg/L

Lot 8: 0.13 mg/L

Lot 9 0.17 mg/L

Lot 10 0.15 mg/L

Lot 11: 0.26 mg/L

Lot 12: 0.34 mg/L

Lot 13: 0.21 mg/L

Lot 14: 0.28 mg/L

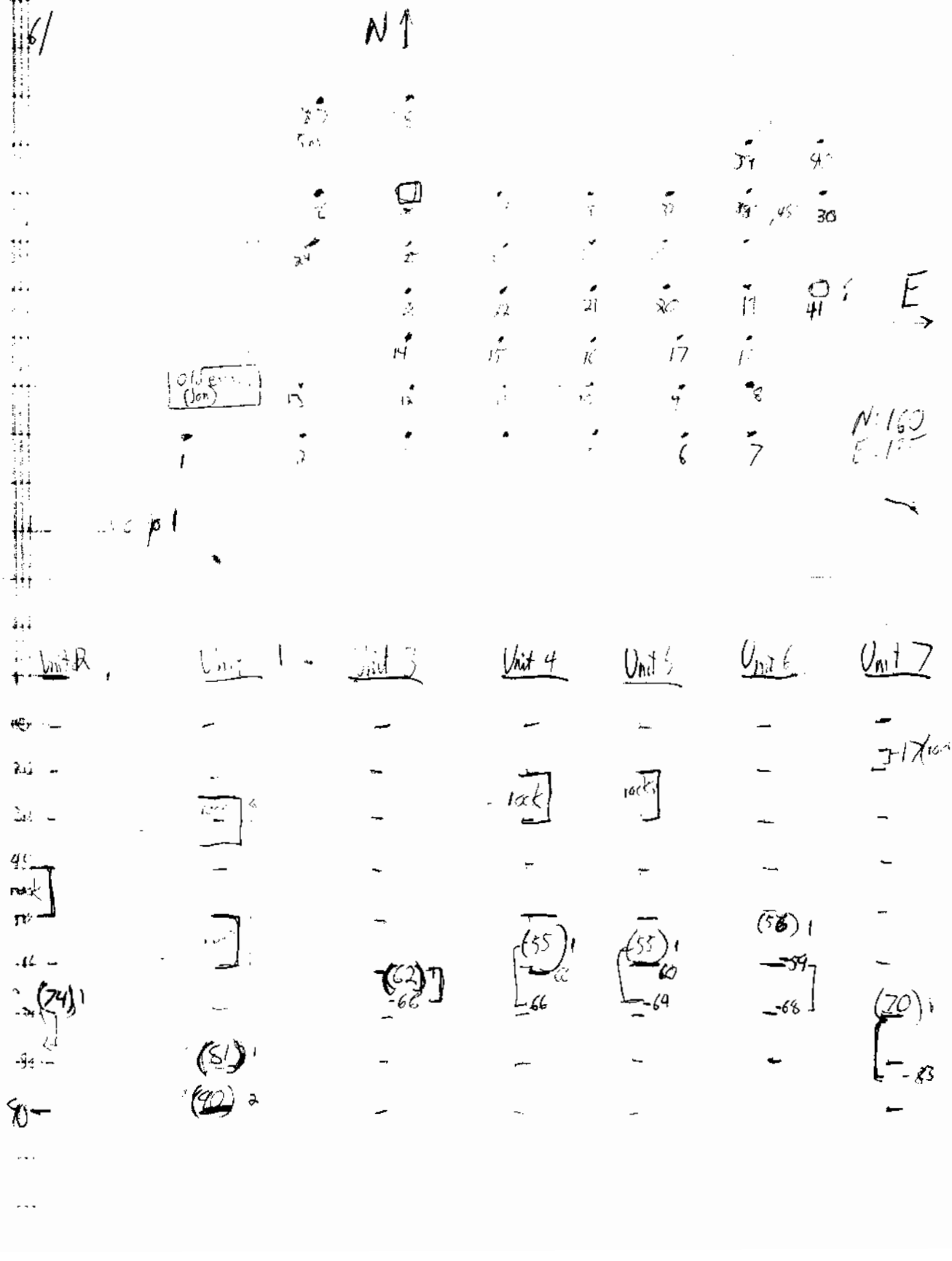
2004-12-14

Lot 15 : 0.21 mg/L
Lot 16 : 0.12 mg/L

Lot 17: 0.08 mg/L
Lot 18: 0.15 mg/L
Lot 19 : 0.14 mg/L
Lot 20: 0.25 mg/L
Lot 21 : 0.25 mg/L

Lot 22 : 0.02
Lot 23 : 0.32
Lot 24 : 0.31
Lot 25 : 0.31
Lot 26 0.05
Lot 27 0.25
Lot 28 : 0.25
Lot 29 : 0.22
Lot 30 : 0.01
Lot 31 : 0.14
Lot 32 : 0.06
Lot 33 : 0.01
Lot 34 0.05
Lot 35 : 0.03
36 0.03
37 0.22
38 0.33
39 0.15

2004-1245


N
E
Unit 1
Unit 2
Unit 4
Unit 5
Unit 6
Unit 7
rock
rocks
(74)
(51)
(62)
(55)
(55)
(56)
(70)

2004-12-16

Unit [illegible]	Unit 1	Unit [illegible]	U[illegible]	Unit 12	Unit [illegible]
				] [illegible]	
					-(50)
		-(55)	-(57)1		-(58)
		-67	-67'		-67
(81)-1	-(73)1			-(70)	
85	82			-75 (Tree [illegible])	

Unit 14	Unit 15	Unit 16	Unit 17	Unit 18
-(55)1	(55)1	(60)		
-60	67			
	rocks			
			-(84)	-(80)1
				-85
	([illegible] [illegible] (rocks))		no ~~[illegible]~~ clear [illegible] [illegible] ([illegible])	

2004-12-17

Unit 1	Unit 2	Unit 21	Unit 22	Unit 23
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	[illegible]	50 (illegible) 57	(52)	–
(60)	(illegible)	–	59	(60)
67	–	–		65
[illegible]	–	[illegible]		
[illegible]	[illegible]	[illegible]		

Unit 24	Unit 25	Unit 26	Unit 27	Unit 28	Unit 29
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	(40)	–	–
–	–	(48) 57	47	–	(50)
–	–	–	–	(54) 59	–
(78)	[illegible]	–	–	–	no wt!
72	[illegible]	[illegible]	[illegible]		

Unit 30 | Unit 31 | Unit 32 | Unit 33 | Unit 34

2004-12-18

(46)

(67)

(72)

77

(no yellow plaster)

(no yellow plaster)

(no yellow plaster)

Forgot the next ...

Unit 35 | Unit 36 | Unit 37 | Unit 38 | Unit 39 | Unit 40 | Unit 41

(42)

(39)

(53)

(62)

No yellow

no yellow plast.

(no yellow)

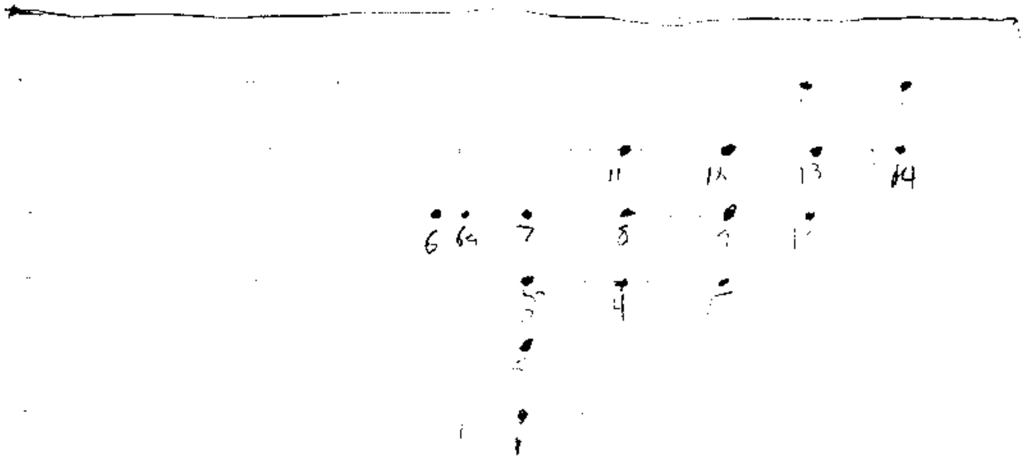
(no plaster)

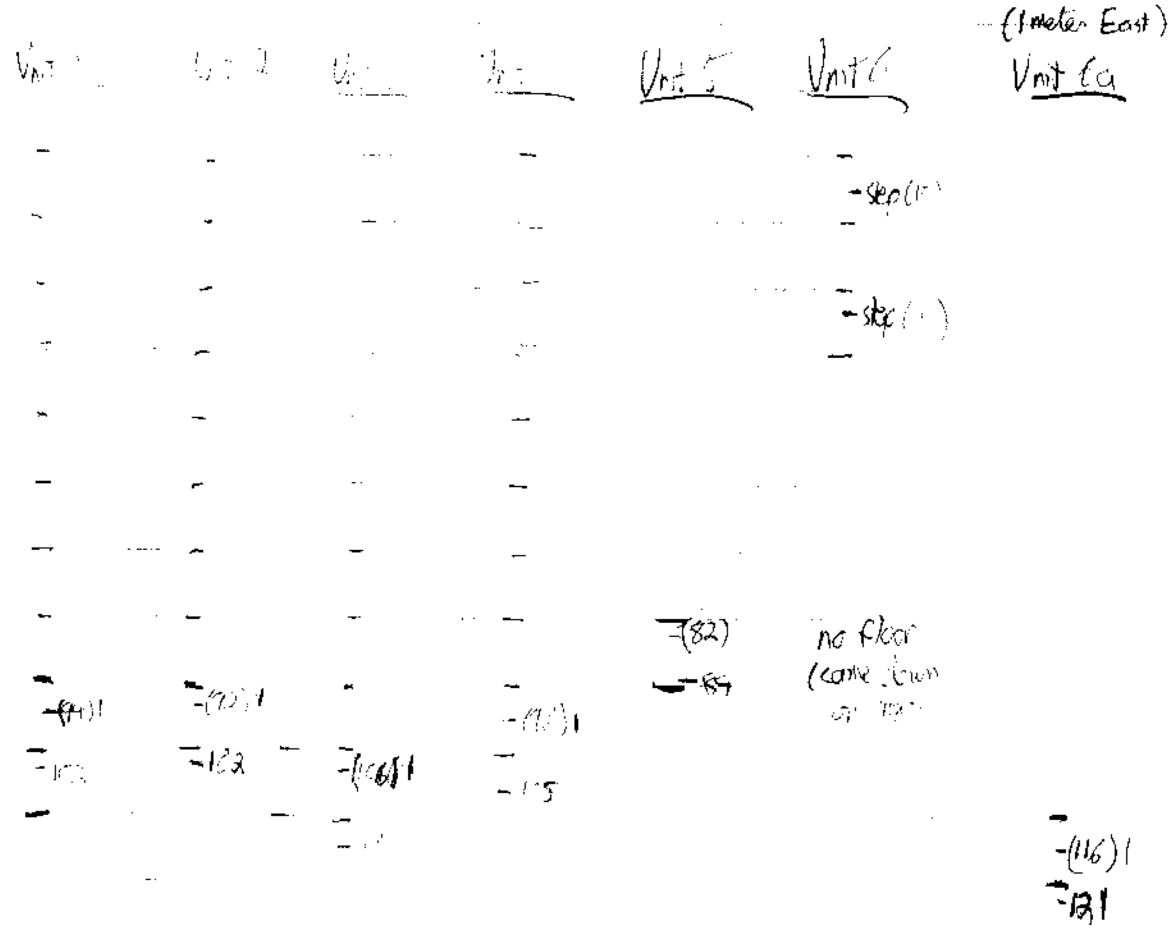
(64)

(no plaster)

2004-12-19

June [illegible] Thursday [illegible]





Unit ? | Unit 8 | Unit 9 | Unit ? | Unit ? | Unit ? | Unit ? 2004-12-20

Unit ?

- (99) 1
- 1?6

Unit 8

- (8?) 1
- 85

Unit 9

- (60) 1
- 75

Unit ?

- (81) 1
- 85

Unit ?

- (7?) 1

(no yellow clay)

Unit ?

- rock
- (6?) 1
- 47

Unit ? 2004-12-20

- rock
- (6?) 1 rock
- 53

(not much yellow plaster; lay...)

Unit 14

- 52 [rocks]

[found ... layer ...]

Unit 15

- (39) 1

Unit 16

- (45) 1

Not much ...

2004-12-21

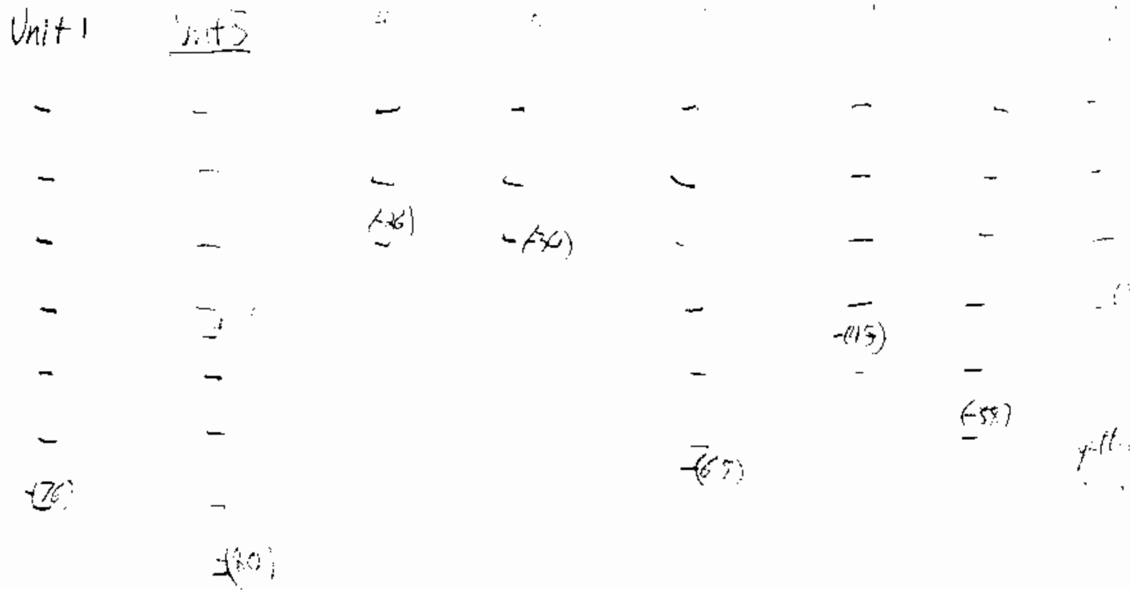
Patio 2 is directly north of the southern [illegible] of Patio 1. It consisted of 16 units at 3 meter intervals [illegible]. Any other point would fall [illegible] structure in Patio 2. I was helped by the fact that the southern profile gave a good indication of where the plaster floor should be. The earlier points were quite deep, roughly double the depth found in Patio 1. This goes to show the amount of [illegible] since Mayan time. Many of the earlier Units in Patio 2 [illegible] 100 cm deep. Heading north Unit 6 fell onto some steps so unit 6a was located 1 meter east. As we head east, the units fell onto stone flooring, [illegible] the "aquarium" i.e. the raised flooring above the lowest platform (floor). Farthest east we had two holes that fell in a modern structure. [illegible] to be a house for a family some time ago. We only went about 40-50 cm before we hit flooring (essentially w/ plaster). Hypothesis includes finding a new building structure w/ its flooring connecting with the flooring of the modern building. The two holes dug in the modern building were double the size to verify the floor [illegible]. The [illegible] across from west to east and south to north. It is suspected that the stairs in the southern profile will appear as the suspected building [illegible]. Excavation is proceeding on the south side of Patio 2 by Marcello and is giving clues as to how the structures on the E & W side of Patio 2 might have been.

The next order is Patio 3 which is on the other side of the west building of patio 2. It is essentially in a chicken coop yard that smells really bad and belongs to one of the workers. We may have to set up a new substation in their yard since palm trees cover the area.

No. 3

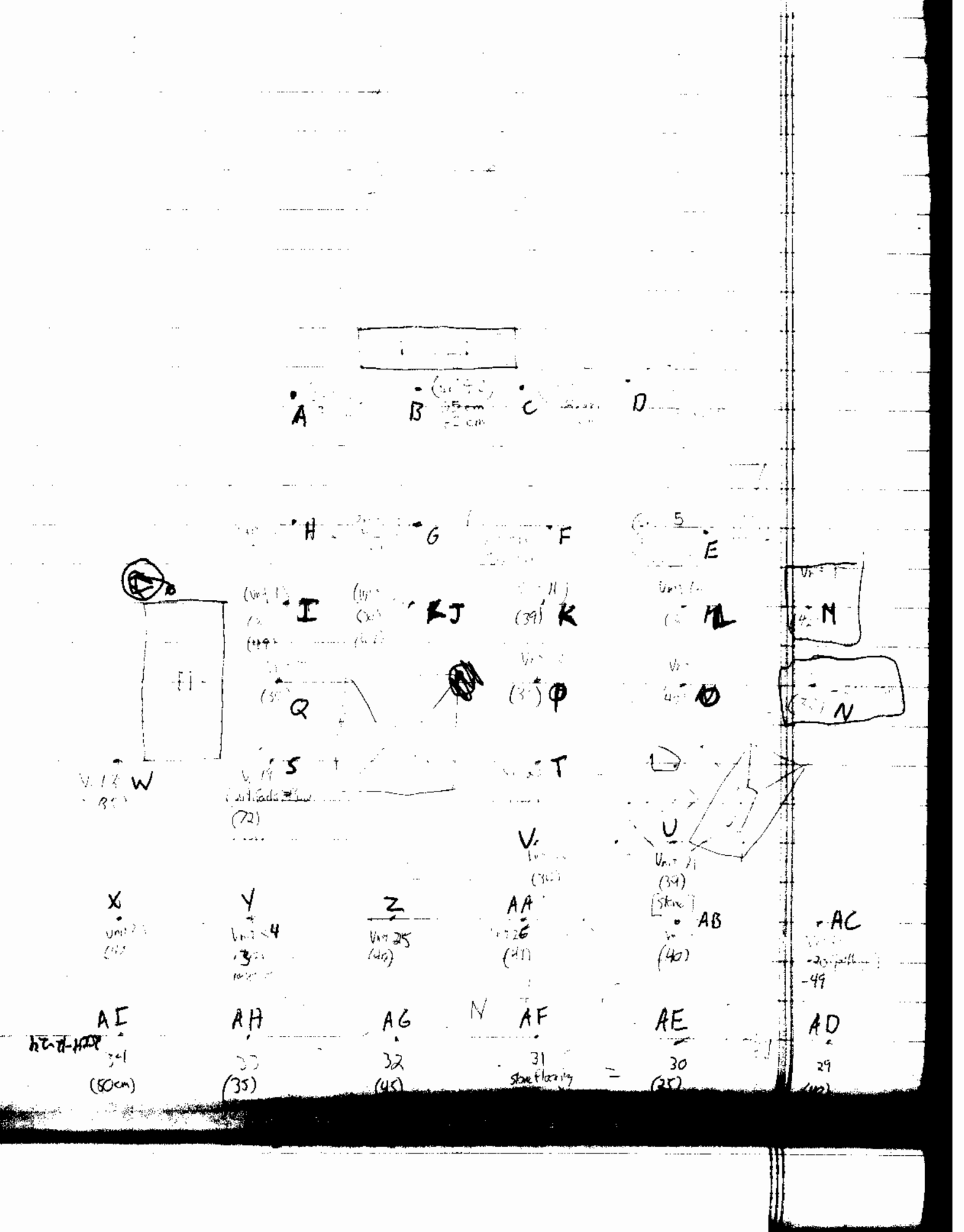
N

2004-12-23



...No unit 2 [illegible] w/ unit 3 at all levels.

...No sign [illegible] at [illegible] unit.


A
B
C
D
H
G
F
E
I
J
K
L
M
N
Q
P
O
S
T
U
W
X
Y
Z
AA
AB
AC
AD
AE
AF
AG
AH
AI
(72)
(39)
(40)
(41)
(45)
(35)
(80cm)
stone flooring

2004-12-26

N

(62)

(62)

60 – [rocks

(72)

(49)

(79)

(79)

100

Unit 9

(49)

(42)

(60)

2004-12-28

Op7 SnKCl

1	0.47
2	0.32
3	0.37
4	0.17
5	0.24
6	0.10
7	0.60
8	0.42
9	0.39
10	0.16
11	0.68
12	0.69
13	0.69
14	0.70
15	0.01
16	0.01
17	0.19
18	0.23
19	0.24
20	0.27
21	0.19

2004 - 12 - 29

22 0.14
23 0.37
24 0.31
25 0.30
26 0.29
27 0.24
28 1.07

29 0.65
30 2.09
31 1.21
32 1.25
33 1.16
34 0.83
35 0.46

36 0.96
37 1.7
38 2.
39 1.
40
41 0.

2004-12-30

1 0.14

2

2 0.29

3 0.25

4 0.04

5 0.01

6 0.01

7 0.05

8 0.03

9 0.40

10 0.34

11 0.24

12 0.15

13 2.75

14 2.08

15 0.70

16 0.51

3 1 0.02

2 0.72

3 0.47

4 1.87

5 1.17

6 0.89

2004-12-31

...8 0.74

...9 2.52

4...1 0.01

...2 1.28

...3 0.93

...4 0.71

...5 1.57

...

...6 [illegible]

...7 0.37

...8 061

...9 0.18

...10 2.75

...

... Results of Patch 1-4;

...

...

...

...

...

...

...

...

...

...

...

...

...

2004-12-32

Cafetal Escobal shot [illegible] with [illegible] beginning [illegible] the south [illegible] [illegible] wasn't aligned [illegible] to north/south [illegible], we [illegible] the plaza [illegible] a grid north south with the southern most structure [illegible] the [illegible] point. From there, stakes were essentially put at 15m intervals with the exception of a few post which could not be shot in due to trees [illegible] [illegible] debris (trees, sticks, branches) piles that were a result of the clearing. The first two rows were shovel, ie. soil samples were taken. For numerous units, two samples were taken except for those holes where the soil change corresponded to the 30-40cm depth expected for the Mayan time period. South of the earlier two low mounds, we found no evidence of stone flooring like at El Paraiso. However, north of that, we found stone flooring in nearly all of the sample holes. In one case, a hole was expanded to reveal the presence of the floor.

During the sampling, farmers were [illegible] stacked plants [illegible] on the south side of the plaza. Later they began [illegible], once burned on the south side of the plaza, most likely in preparation for farming. The north side already had been field planted. It is important to note that the stone floor was not flat but below the surface in some places - approximately 25cm. Piles of stone surround these farm fields suggesting that farmers probably had removed them before planting. We also found numerous ceramic artifacts in the north plaza. Although near the surface in some cases, I'm telling that they are probably not under since, unlike El Paraiso, there is not a large settlement presence.

2004-12-33

7/5

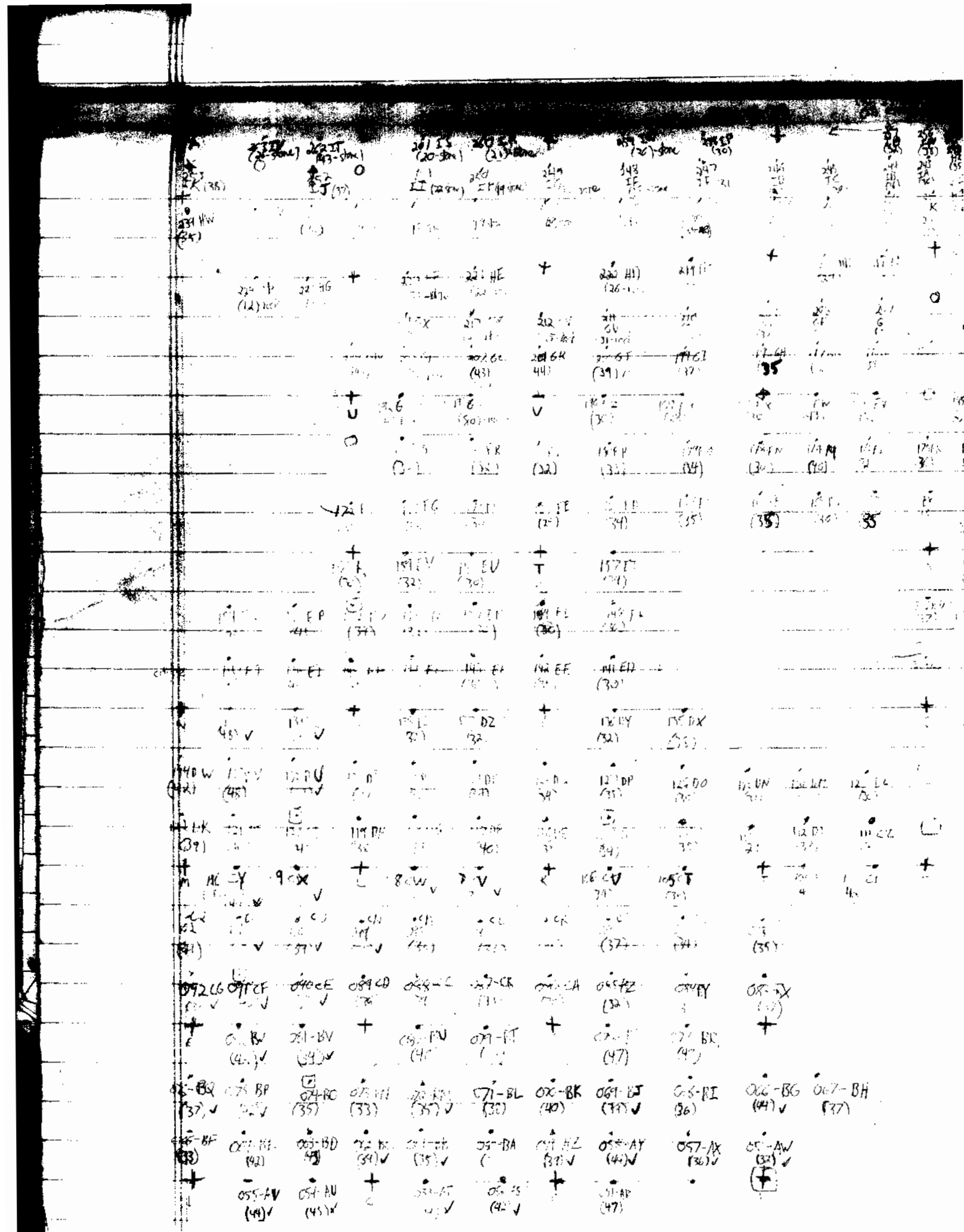
2q. Samples

SubOp 5 : El Carrizal

	SubOp	Lot	(Sample) Lot	Phosphate
1	5	9	1	0.68
2	5	9	2	0.92
3	5	10	2	0.80
4	5	11	1	1.02
5	5	13	1	0.84
6	5	19	1	0.93
7	5	19	2	1.51
8	5	25	1	
9	5	30	1	
10	5	40	1	

Phosphate Standard solution (standard)

Instrument calibration 0.00 : 0.99



7/13/04

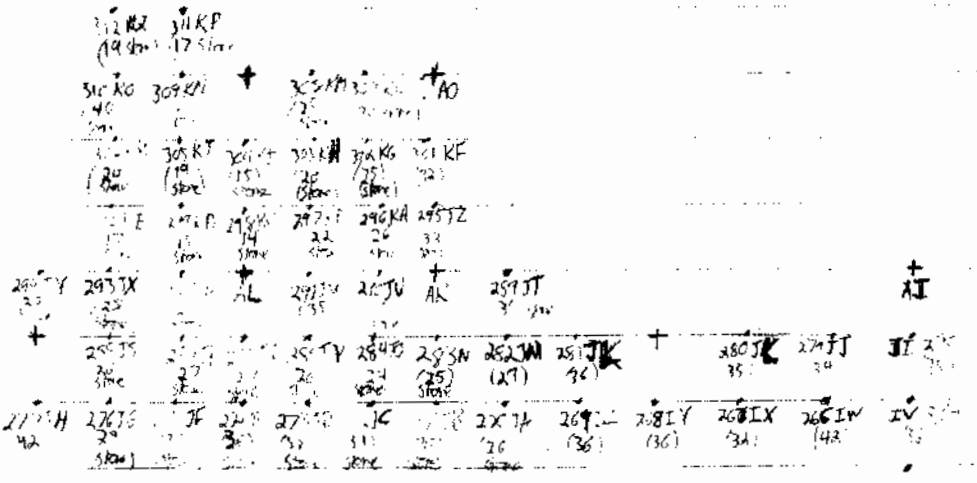
2004-12-35

sample	wgt	reading	sample	wgt	reading
79		0.6[illegible]	41	1.9	0.77
80			42		0.46
81		1.0[illegible]	43	1.8	0.31
82		1.08	44	1.9	0.25
83		[illegible]	45	2.0	0.44
84		0.41	46	1.9	0.05
85		0.49	47	1.9	0.21
[illegible]	1.9	[illegible]	23	1.9	0.51
[illegible]	1.8	1.2[illegible]	48	1.9	0.00
[illegible]	[illegible]	1.9[illegible]	11	2.0	0.60
[illegible]	[illegible]	1.33	12	1.8	0.35
[illegible]	[illegible]	[illegible]	14	1.9	0.15
91	[illegible]	[illegible]	15	1.9	0.33
85	[illegible]	[illegible]	17	1.9	0.03
[illegible]	1.8	0.31	24	1.9	1.42
[illegible]	[illegible]	0.83	31	2.0	.84
[illegible]	[illegible]	0.47	36	1.7	0.00
[illegible]	[illegible]	1.02	49	2.0	0.31
[illegible]	[illegible]	0.10	50	2.0	0.47
[illegible]	[illegible]	0.43	MC1	2.0	0.31
40	2.0	0.00	99	2.0	0.26

2004-12-36

sample	wt	reading
100	2.0	0.80
100	2.0	0.48
102	2.0	0.84
103	2.0	0.57
104	2.0	0.79
105	2.0	0.60
106	2.0	0.67

2004-12-37



2004-12

7/15

sample	wgt	reading	Pezzo
107		1.38	1.08
108		1.06	1.07
109	NO POWER	0.54	0.85
110		0.76	0.51
111		0.55	0.27
112		0.92	0.57
113		0.75	0.42
0		0.25 0.37	0.00
114		0.79	
115		0.54	
116	NO POWER	0.60	
117		0.47	
118		0.74	
119		0.08	
120		0.00	

07/03/12 D	798.43	478.85	1009.48					2004-06-08	68
07/03/13 D	798.38	478.92	1009.28					2004-06-08	69
07/03/14 D	798.34	478.97	1009.20					2004-06-08	70
07/03/15 E	799.66	480.43	1009.67					2004-06-08	71
07/03/16 E	799.68	480.43	1009.55					2004-06-08	72
07/03/17 F	800.79	482.05	1009.86					2004-06-08	73
07/03/18 F	800.86	482.03	1009.69					2004-06-08	74
07/03/19 F	800.86	482.03	1009.63					2004-06-08	75
07/03/20 F	800.87	482.07	1009.33					2004-06-08	76
07/03/21 F	800.75	482.07	1009.07					2004-06-08	77
07/04 A	906.01	459.98	1009.69					2004-06-21	1
07/04 B	911.02	460.00	1009.51					2004-06-21	2
07/04 C	916.00	460.00	1009.41					2004-06-21	3
07/04 D	916.01	454.99	1009.18					2004-06-21	4
07/04 E	911.01	454.99	1009.29					2004-06-21	5
07/04 F	920.99	455.00	1009.08					2004-06-21	6
07/04 G	915.98	450.00	1009.32					2004-06-21	7
07/04 H	911.01	450.00	1009.30					2004-06-21	8
07/04 I	920.99	460.00	1009.27					2004-06-21	9
07/04 J	926.00	455.03	1009.02					2004-06-21	10
07/05 A	-1.43	1.14	999.99					2004-06-29	1
07/05 AA	89.66	16.63	998.98					2004-06-29	25
07/05 AB	94.76	2.42	999.11					2004-06-29	26
07/05 AC	99.96	-11.50	999.03					2004-06-29	27
07/05 AD	114.03	-6.41	998.31					2004-06-29	28
07/05 AE	108.78	7.82	998.70					2004-06-29	29
07/05 AF	103.80	21.72	998.90					2004-06-29	30
07/05 AG	98.64	36.09	999.25					2004-06-29	31
07/05 AH	93.43	49.93	999.63					2004-06-29	32
07/05 AI	88.39	64.01	999.86					2004-06-29	33
07/05 AJ	107.72	55.21	999.61					2004-06-29	34
07/05 AK	117.99	27.01	998.82					2004-06-29	35
07/05 AL	122.91	12.85	998.42					2004-06-29	36
07/05 AM	128.12	-1.18	998.04					2004-06-29	37
07/05 AN	136.90	18.98	998.23					2004-06-29	38
07/05 B	5.09	-14.14	999.74					2004-06-29	2
07/05 C	10.21	-28.19	999.36					2004-06-29	3
07/05 D	15.33	-42.29	999.18					2004-06-29	4
07/05 E	29.40	-37.16	999.30					2004-06-29	5
07/05 F	24.32	-23.04	999.56					2004-06-29	6
07/05 G	19.17	-8.99	999.82					2004-06-29	7
07/05 H	14.12	5.10	999.97					2004-06-29	8
07/05 J	28.14	10.25	1000.04					2004-06-29	9
07/05 K	33.35	-3.87	999.76					2004-06-29	10
07/05 L	38.41	-17.95	999.50					2004-06-29	11
07/05 M	43.63	-31.98	999.27					2004-06-29	12
07/05 N	57.63	-26.99	999.12					2004-06-29	13
07/05 O	52.55	-12.84	999.33					2004-06-29	14
07/05 P	47.34	1.11	999.57					2004-06-29	15
07/05 Q	37.41	29.32	1000.09					2004-06-29	16
07/05 S	51.27	34.58	999.71					2004-06-29	17
07/05 T	61.58	6.43	999.33					2004-06-29	18

+ Add Lot

Op07 units

Patio 3

Patio 1

Chicken Patio 2

Profile Readings

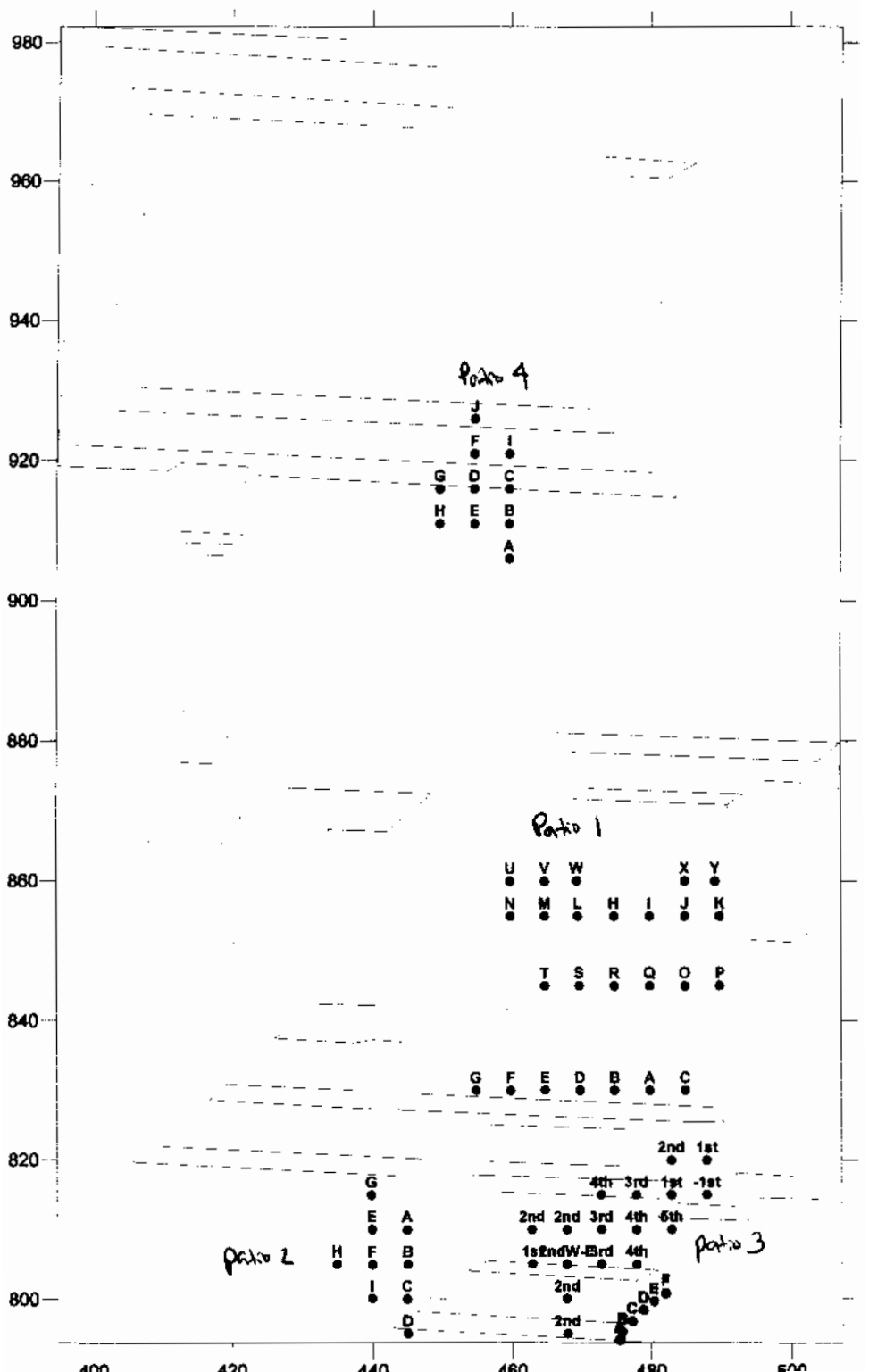
Description	Northing	Easting	Elevation	Op	SubOp	Lot	EU	Date	Num.
07/ 1st E-W L2 N	814.98	482.99	1010.53					2004-06-16	83
07/ 2nd W-E	810.03	462.96	1010.44					2004-06-16	78
07/ 2nd W-E	809.99	468.02	1010.32					2004-06-16	79
07/ 3rd W-E	810.00	473.00	1010.32					2004-06-16	80
07/ 4th W-E	809.99	478.02	1010.34					2004-06-16	81
07/ 5th W-E	810.00	482.99	1010.59					2004-06-16	82
07/01 A	830.00	480.00	1010.22					2004-06-07	009
07/01 B	830.00	474.99	1010.10					2004-06-07	010
07/01 C	829.99	485.03	1010.29					2004-06-07	011
07/01 D	829.98	470.02	1010.04					2004-06-07	012
07/01 E	830.02	465.00	1009.97					2004-06-07	013
07/01 F	829.98	460.00	1009.97					2004-06-07	014
07/01 G	829.98	454.99	1010.07					2004-06-07	015
07/01 H	854.97	474.97	1010.17					2004-06-07	016
07/01 I	854.99	480.02	1010.33					2004-06-07	017
07/01 J	854.98	485.02	1010.50					2004-06-07	018
07/01 K	854.98	489.99	1010.68					2004-06-07	019
07/01 L	854.99	469.80	1009.92					2004-06-07	020
07/01 M	854.98	465.00	1010.02					2004-06-07	021
07/01 N	854.97	460.02	1010.02					2004-06-07	022
07/01 O	845.00	485.01	1010.35					2004-06-07	023
07/01 P	845.02	489.99	1010.49					2004-06-07	024
07/01 Q	845.01	480.01	1010.21					2004-06-07	025
07/01 R	844.99	475.01	1010.12					2004-06-07	026
07/01 S	845.02	469.97	1010.11					2004-06-07	027
07/01 T	844.99	465.01	1010.00					2004-06-07	028
07/01 U	859.99	460.00	1010.09					2004-06-07	029
07/01 V	859.99	465.02	1010.09					2004-06-07	030
07/01 W	860.00	469.68	1010.11					2004-06-07	031
07/01 X	860.01	485.03	1010.54					2004-06-07	032
07/01 Y	860.02	489.37	1010.65					2004-06-07	033
07/02 A	809.99	445.02	1008.86					2004-06-19	1
07/02 B	804.97	445.04	1008.69					2004-06-19	2
07/02 C	799.98	444.97	1008.60					2004-06-19	3
07/02 D	794.99	445.01	1008.40					2004-06-19	4
07/02 E	810.03	440.01	1008.73					2004-06-19	5
07/02 F	804.92	440.00	1008.57					2004-06-19	6
07/02 G	814.95	439.95	1009.04					2004-06-19	7
07/02 H	805.02	435.00	1008.51					2004-06-19	8
07/02 I	800.04	439.96	1008.59					2004-06-19	9
07/03/01 A	794.06	475.44	1009.52					2004-06-08	57
07/03/02 A	794.07	475.43	1009.41					2004-06-08	58
07/03/03 A	794.03	475.57	1009.03					2004-06-08	59
07/03/04 A	794.03	475.63	1008.78					2004-06-08	60
07/03/05 A	794.10	475.45	1009.89					2004-06-08	61
07/03/06 B	795.28	475.89	1009.72					2004-06-08	62
07/03/07 B	795.27	475.91	1009.47					2004-06-08	63
07/03/08 B	795.18	475.84	1009.38					2004-06-08	64
07/03/09 C	796.81	477.22	1009.06					2004-06-08	65
07/03/10 C	796.76	477.37	1008.68					2004-06-08	66
07/03/11 D	798.43	478.86	1009.59					2004-06-08	67

Description	Northing	Easting	Elevation	Op	SubOp	Lot	EU	Date	Num.
07/ -1st E-W L2 N	814.99	488.03	1011.19	07				2004-06-16	84
07/ 1st E-W L2 N	814.98	482.99	1010.53					2004-06-16	83
07/ 1st E-W L3 N	819.99	488.03	1011.06					2004-06-16	85
07/ 1st W-E L2 S	805.02	463.00	1010.47					2004-06-16	89
07/ 2nd E-W L3 N	819.98	482.99	1010.61					2004-06-16	86
07/ 2nd W-E	809.99	468.02	1010.32					2004-06-16	79
07/ 2nd W-E	810.03	462.96	1010.44					2004-06-16	78
07/ 2nd W-E L3 S	800.01	467.99	1010.23					2004-06-16	93
07/ 2nd W-E L4 S	794.99	468.01	1010.07					2004-06-16	94
07/ 2ndW-E L2 S	804.99	467.97	1010.32					2004-06-16	90
07/ 3rd E-W L3 N	814.98	478.01	1010.41					2004-06-16	87
07/ 3rd W-E	810.00	473.00	1010.32					2004-06-16	80
07/ 3rd W-E L2 S	805.00	472.99	1010.42					2004-06-16	91
07/ 4th E-W L3 N	815.00	473.00	1010.44					2004-06-16	88
07/ 4th W-E	809.99	478.02	1010.34					2004-06-16	81
07/ 4th W-E L2 S	804.99	478.01	1010.41					2004-06-16	92
07/ 5th W-E	810.00	482.99	1010.59					2004-06-16	82
07/01 ?	854.90	480.16	1010.29					2004-06-14	02
07/01 ?	859.95	485.04	1010.66					2004-06-14	01
07/01 A	830.00	480.00	1010.22					2004-06-07	009
07/01 B	830.00	474.99	1010.10					2004-06-07	010
07/01 C	829.99	485.03	1010.29					2004-06-07	011
07/01 D	829.98	470.02	1010.04					2004-06-07	012
07/01 E	830.02	465.00	1009.97					2004-06-07	013
07/01 F	829.98	460.00	1009.97					2004-06-07	014
07/01 G	829.98	454.99	1010.07					2004-06-07	015
07/01 H	854.97	474.97	1010.17					2004-06-07	016
07/01 I	854.99	480.02	1010.33					2004-06-07	017
07/01 J	854.98	485.02	1010.50					2004-06-07	018
07/01 K	854.98	489.99	1010.68					2004-06-07	019
07/01 L	854.99	469.80	1009.92					2004-06-07	020
07/01 M	854.98	465.00	1010.02					2004-06-07	021
07/01 N	854.97	460.02	1010.02					2004-06-07	022
07/01 O	845.00	485.01	1010.35					2004-06-07	023
07/01 P	845.02	489.99	1010.49					2004-06-07	024
07/01 Q	845.01	480.01	1010.21					2004-06-07	025
07/01 R	844.99	475.01	1010.12					2004-06-07	026
07/01 S	845.02	469.97	1010.11					2004-06-07	027
07/01 T	844.99	465.01	1010.00					2004-06-07	028
07/01 U	859.99	460.00	1010.09					2004-06-07	029
07/01 V	859.99	465.02	1010.09					2004-06-07	030
07/01 W	860.00	469.68	1010.11					2004-06-07	031
07/01 X	860.01	485.03	1010.54					2004-06-07	032

07/01 Y	860.02	489.37	1010.65					2004-06-07	033
07/02 A	809.99	445.02	1008.86					2004-06-19	1
07/02 B	804.97	445.04	1008.69					2004-06-19	2
07/02 C	799.98	444.97	1008.60					2004-06-19	3
07/02 D	794.99	445.01	1008.40					2004-06-19	4
07/02 E	810.03	440.01	1008.73					2004-06-19	5
07/02 F	804.92	440.00	1008.57					2004-06-19	6
07/02 G	814.95	439.95	1009.04					2004-06-19	7
07/02 H	805.02	435.00	1008.51					2004-06-19	8
07/02 I	800.04	439.96	1008.59					2004-06-19	9
07/03/01 A	794.06	475.44	1009.52					2004-06-08	57
07/03/02 A	794.07	475.43	1009.41					2004-06-08	58
07/03/03 A	794.03	475.57	1009.03					2004-06-08	59
07/03/04 A	794.03	475.63	1008.78					2004-06-08	60
07/03/05 A	794.10	475.45	1009.89					2004-06-08	61
07/03/06 B	795.28	475.89	1009.72					2004-06-08	62
07/03/07 B	795.27	475.91	1009.47					2004-06-08	63
07/03/08 B	795.18	475.84	1009.38					2004-06-08	64
07/03/09 C	796.81	477.22	1009.06					2004-06-08	65
07/03/10 C	796.76	477.37	1008.68					2004-06-08	66
07/03/11 D	798.43	478.86	1009.59					2004-06-08	67
07/03/12 D	798.43	478.85	1009.48					2004-06-08	68
07/03/13 D	798.38	478.92	1009.28					2004-06-08	69
07/03/14 D	798.34	478.97	1009.20					2004-06-08	70
07/03/15 E	799.66	480.43	1009.67					2004-06-08	71
07/03/16 E	799.68	480.43	1009.55					2004-06-08	72
07/03/17 F	800.79	482.05	1009.86					2004-06-08	73
07/03/18 F	800.86	482.03	1009.69					2004-06-08	74
07/03/19 F	800.86	482.03	1009.63					2004-06-08	75
07/03/20 F	800.87	482.07	1009.33					2004-06-08	76
07/03/21 F	800.75	482.07	1009.07					2004-06-08	77
07/03/22 G	802.81	483.82	1009.78					2004-06-09	76
07/03/23 G	802.80	483.81	1009.72					2004-06-09	77
07/03/24 G	802.81	483.84	1009.58					2004-06-09	78
07/03/25 G	802.81	483.86	1009.48					2004-06-09	79
07/03/26 H	804.20	485.62	1010.19					2004-06-09	80
07/03/27 H	804.23	485.62	1010.06					2004-06-09	81
07/03/28 H	804.23	485.59	1010.06					2004-06-09	82
07/03/29 H	804.06	485.71	1009.59					2004-06-09	83
07/03/30 I	805.43	487.30	1010.34					2004-06-09	84
07/03/31 I	805.46	487.32	1010.26					2004-06-09	85
07/03/32 I	805.49	487.38	1010.21					2004-06-09	86
07/03/33 I	805.29	487.67	1009.65					2004-06-09	87
07/03/34 J	806.95	488.81	1010.28					2004-06-09	88

07/03/35 J	806.94	488.81	1010.24					2004-06-09	89
07/03/36 K	807.80	490.63	1010.41					2004-06-09	90
07/03/37 K	807.77	490.65	1010.22					2004-06-09	91
07/03/38 K	807.77	490.62	1009.91					2004-06-09	92
07/03/39 K	807.74	490.63	1009.77					2004-06-09	93
07/04 A	906.01	459.98	1009.69					2004-06-21	1
07/04 B	911.02	460.00	1009.51					2004-06-21	2
07/04 C	916.00	460.00	1009.41					2004-06-21	3
07/04 D	916.01	454.99	1009.18					2004-06-21	4
07/04 E	911.01	454.99	1009.29					2004-06-21	5
07/04 F	920.99	455.00	1009.08					2004-06-21	6
07/04 G	915.98	450.00	1009.32					2004-06-21	7
07/04 H	911.01	450.00	1009.30					2004-06-21	8
07/04 I	920.99	460.00	1009.27					2004-06-21	9
07/04 J	926.00	455.03	1009.02					2004-06-21	10
07/05 A	-1.43	1.14	999.99					2004-06-29	1
07/05 AA	89.66	16.63	998.98					2004-06-29	25
07/05 AB	94.76	2.42	999.11					2004-06-29	26
07/05 AC	99.96	-11.50	999.03					2004-06-29	27
07/05 AD	114.03	-6.41	998.31					2004-06-29	28
07/05 AE	108.78	7.82	998.70					2004-06-29	29
07/05 AF	103.80	21.72	998.90					2004-06-29	30
07/05 AG	98.64	36.09	999.25					2004-06-29	31
07/05 AH	93.43	49.93	999.63					2004-06-29	32
07/05 AI	88.39	64.01	999.86					2004-06-29	33
07/05 AJ	107.72	55.21	999.61					2004-06-29	34
07/05 AK	117.99	27.01	998.82					2004-06-29	35
07/05 AL	122.91	12.85	998.42					2004-06-29	36
07/05 AM	128.12	-1.18	998.04					2004-06-29	37
07/05 AN	136.90	18.98	998.23					2004-06-29	38
07/05 B	5.09	-14.14	999.74					2004-06-29	2
07/05 C	10.21	-28.19	999.36					2004-06-29	3
07/05 D	15.33	-42.29	999.18					2004-06-29	4
07/05 E	29.40	-37.16	999.30					2004-06-29	5
07/05 F	24.32	-23.04	999.56					2004-06-29	6
07/05 G	19.17	-8.99	999.82					2004-06-29	7
07/05 H	14.12	5.10	999.97					2004-06-29	8
07/05 J	28.14	10.25	1000.04					2004-06-29	9
07/05 K	33.35	-3.87	999.76					2004-06-29	10
07/05 L	38.41	-17.95	999.50					2004-06-29	11
07/05 M	43.63	-31.98	999.27					2004-06-29	12
07/05 N	57.63	-26.99	999.12					2004-06-29	13
07/05 O	52.55	-12.84	999.33					2004-06-29	14
07/05 P	47.34	1.11	999.57					2004-06-29	15

07/05 Q	37.41	29.32	1000.09					2004-06-29	16
07/05 S	51.27	34.58	999.71					2004-06-29	17
07/05 T	61.58	6.43	999.33					2004-06-29	18
07/05 U	80.71	-2.57	999.53					2004-06-29	19
07/05 V	75.53	11.50	999.59					2004-06-29	20
07/05 W	46.08	48.75	1000.00					2004-06-29	21
07/05 X	74.19	58.96	999.98					2004-06-29	22
07/05 Y	79.44	44.97	999.67					2004-06-29	23
07/05 Z	84.59	30.87	999.36					2004-06-29	24


980
960
940
920
900
880
860
840
820
800
400
420
440
460
480
500
Patio 4
J
F I
G D C
H E B
A
Patio 1
U V W X Y
N M L H I J K
T S R Q O P
G F E D B A C
2nd 1st
4th 3rd 1st -1st
2nd 2nd 3rd 4th 5th
1st 2nd W-B 3rd 4th
2nd
2nd
Patio 2
H
G
E A
F B
I C
D
Patio 3

1. Reverse SubOp 2 ⟷ SubOp 3 Chickens = Patio 2

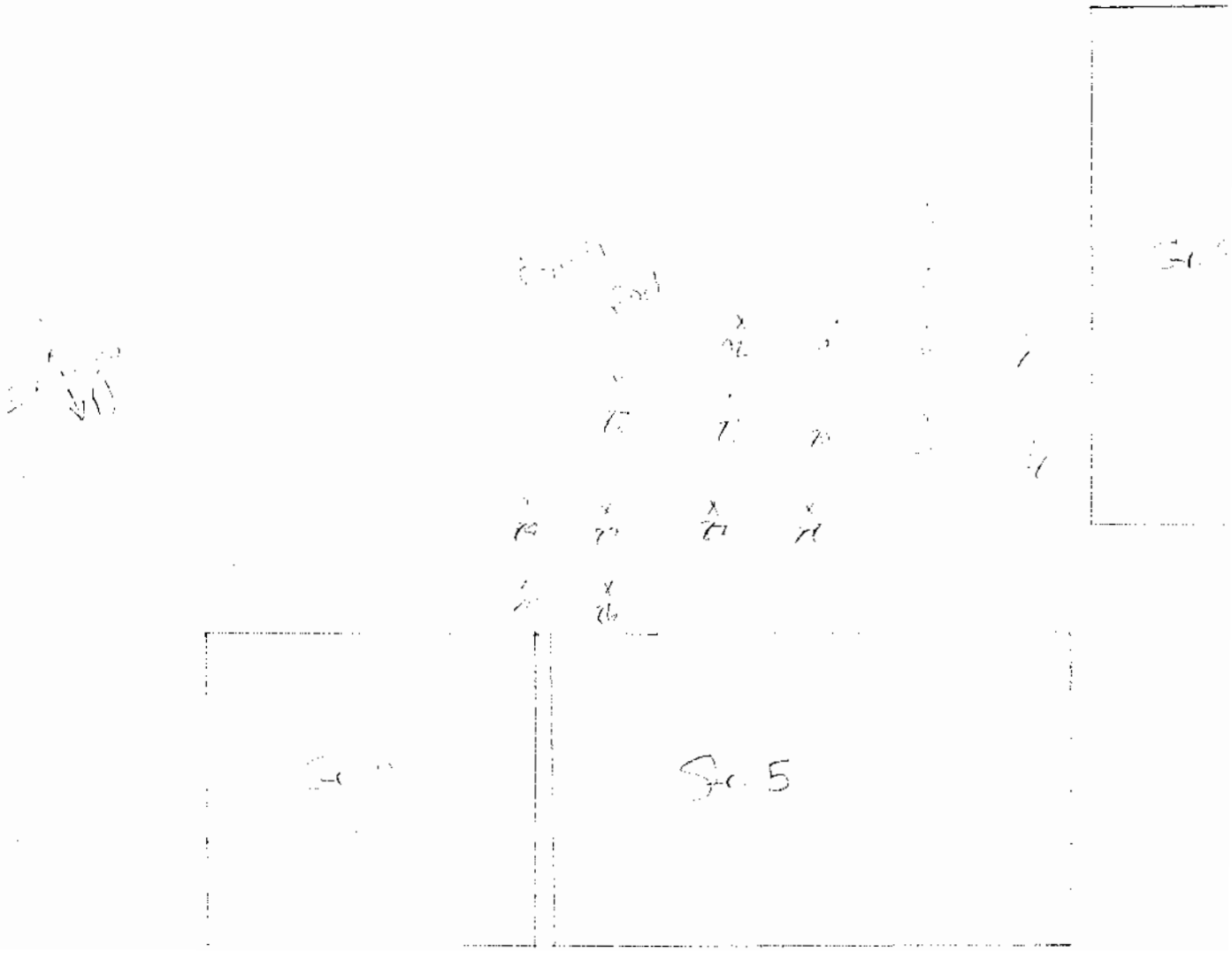
2. 07 / 01,02,03 / 1 [scribbled out] (annotations: SubOp over "01,02,03"; Lot over "1"; Unit Letter over scribble; space below)

Wed. June 16, 2004 (cont.)

Soil Test pits: Op. 7/2, 5001, Patio 3 2004-1-9

N 810 Line 1 = pts. 78, 79, 80, 81, 82 (taken W→E)
N 815 Line 2 N = pts. 84, 83, 87, 88 (taken E-W, w/pt. 83 before pt. 84)
N 820 Line 3 N = pts. 85, 86 (taken E-W)
N 805 Line 2 S = pts. [illegible], 90, 91, 92 (taken W-E) pt. 89 is on St. 9 fill
N 800 Line 3 S = pt. 93
N 795 Line 4 S = pt. 94

E-W range: Exc 5 ft; E 463 to E 488



~~Op07 fixed~~ El Cafetal IN DB

Description	N	E	Z	PO4 mg/kg	Op	SubOp	Lot	EU	Old Description	Num.	Date
07/05/32 AA	89.66	16.63	*998.98*		7	5	32	AA	07/05 AA	25	2004-06-29
07/05/33 AB	94.76	2.42	*999.11*		7	5	33	AB	07/05 AB	26	2004-06-29
07/05/34 AC	99.96	-11.50	*999.03*		7	5	34	AC	07/05 AC	27	2004-06-29
07/05/35 AD	114.03	-6.41	*998.31*		7	5	35	AD	07/05 AD	28	2004-06-29
07/05/36 AE	108.78	7.82	*998.70*		7	5	36	AE	07/05 AE	29	2004-06-29
07/05/37 AF	103.80	21.72	*998.90*		7	5	37	AF	07/05 AF	30	2004-06-29
07/05/38 AG	98.64	36.09	*999.25*		7	5	38	AG	07/05 AG	31	2004-06-29
07/05/39 AH	93.43	49.93	*999.63*		7	5	39	AH	07/05 AH	32	2004-06-29
07/05/40 AI	88.39	64.01	*999.86*		7	5	40	AI	07/05 AI	33	2004-06-29
07/05/44 AJ	107.72	55.21	*999.61*		7	5	44	AJ	07/05 AJ	34	2004-06-29
07/05/43 AK	117.99	27.01	*998.82*		7	5	43	AK	07/05 AK	35	2004-06-29
07/05/42 AL	122.91	12.85	*998.42*		7	5	42	AL	07/05 AL	36	2004-06-29
07/05/41 AM	128.12	-1.18	*998.04*		7	5	41	AM	07/05 AM	37	2004-06-29
07/05/45 AN	136.90	18.98	*998.23*		7	5	45	AN	07/05 AN	38	2004-06-29
07/05/?? A	**-1.43**	**1.14**	***999.99***		**7**	**5**	**??**	**A**	**07/05 A**	**1**	**2004-06-29** DELETE
07/05/01 B	5.09	-14.14	*999.74*		7	5	1	B	07/05 B	2	2004-06-29
07/05/02 C	10.21	-28.19	*999.36*		7	5	2	C	07/05 C	3	2004-06-29
07/05/03 D	15.33	-42.29	*999.18*		7	5	3	D	07/05 D	4	2004-06-29
07/05/05 E	29.40	-37.16	*999.30*		7	5	5	E	07/05 E	5	2004-06-29
07/05/06 F	24.32	-23.04	*999.56*		7	5	6	F	07/05 F	6	2004-06-29
07/05/08 G	19.17	-8.99	*999.82*		7	5	8	G	07/05 G	7	2004-06-29
07/05/10 H	14.12	5.10	*999.97*		7	5	10	H	07/05 H	8	2004-06-29
07/05/13 J	28.14	10.25	*1000.04*		7	5	13	J	07/05 J	9	2004-06-29
07/05/15 K	33.35	-3.87	*999.76*		7	5	15	K	07/05 K	10	2004-06-29
07/05/16 L	38.41	-17.95	*999.50*		7	5	16	L	07/05 L	11	2004-06-29
07/05/17 M	43.63	-31.98	*999.27*		7	5	17	M	07/05 M	12	2004-06-29
07/05/18 N	57.63	-26.99	*999.12*		7	5	18	N	07/05 N	13	2004-06-29
07/05/19 O	52.55	-12.84	*999.33*		7	5	19	O	07/05 O	14	2004-06-29
07/05/20 P	47.34	1.11	*999.57*		7	5	20	P	07/05 P	15	2004-06-29
07/05/21 Q	37.41	29.32	*1000.09*		7	5	21	Q	07/05 Q	16	2004-06-29
07/05/23 S	51.27	34.58	*999.71*		7	5	23	S	07/05 S	17	2004-06-29

~~Op07 fixed~~ El Cafetal IN DB

07/05/25 T	61.58	6.43	*999.33*		7	5	25	T	07/05 T	18	2004-06-29
07/05/26 U	80.71	-2.57	*999.53*		7	5	26	U	07/05 U	19	2004-06-29
07/05/27 V	75.53	11.50	*999.59*		7	5	27	V	07/05 V	20	2004-06-29
07/05/22 W	46.08	48.75	*1000.00*		7	5	22	W	07/05 W	21	2004-06-29
07/05/28 X	74.19	58.96	*999.98*		7	5	28	X	07/05 X	22	2004-06-29
07/05/29 Y	79.44	44.97	*999.67*		7	5	29	Y	07/05 Y	23	2004-06-29
07/05/31 Z	84.59	30.87	*999.36*		7	5	31	Z	07/05 Z	24	2004-06-29

El Cafetal
NOT in DB

Description	N	E	Z	PO4 mg/kg	Op	SubOp	Lot	EU
07/05/04 D	15.33	-42.29			7	5	4	D
07/05/07 F	24.32	-23.04			7	5	7	F
07/05/09 G	19.17	-8.99			7	5	9	G
07/05/14 J	28.14	10.25			7	5	14	J
07/05/24 S	51.27	34.58			7	5	24	S
07/05/30 Y	79.44	44.97			7	5	30	Y

No Sample

PAREP LOT CARD Excavator _____ Date _____

Op/SubOp/Lot: _____ Ex. Unit _____

Site: _____ Str _____

Prev. lot _____ Next lot _____

Dep. Sig. _____ Soil type _____ Soil color _____

Note refs _____ Drawings _____

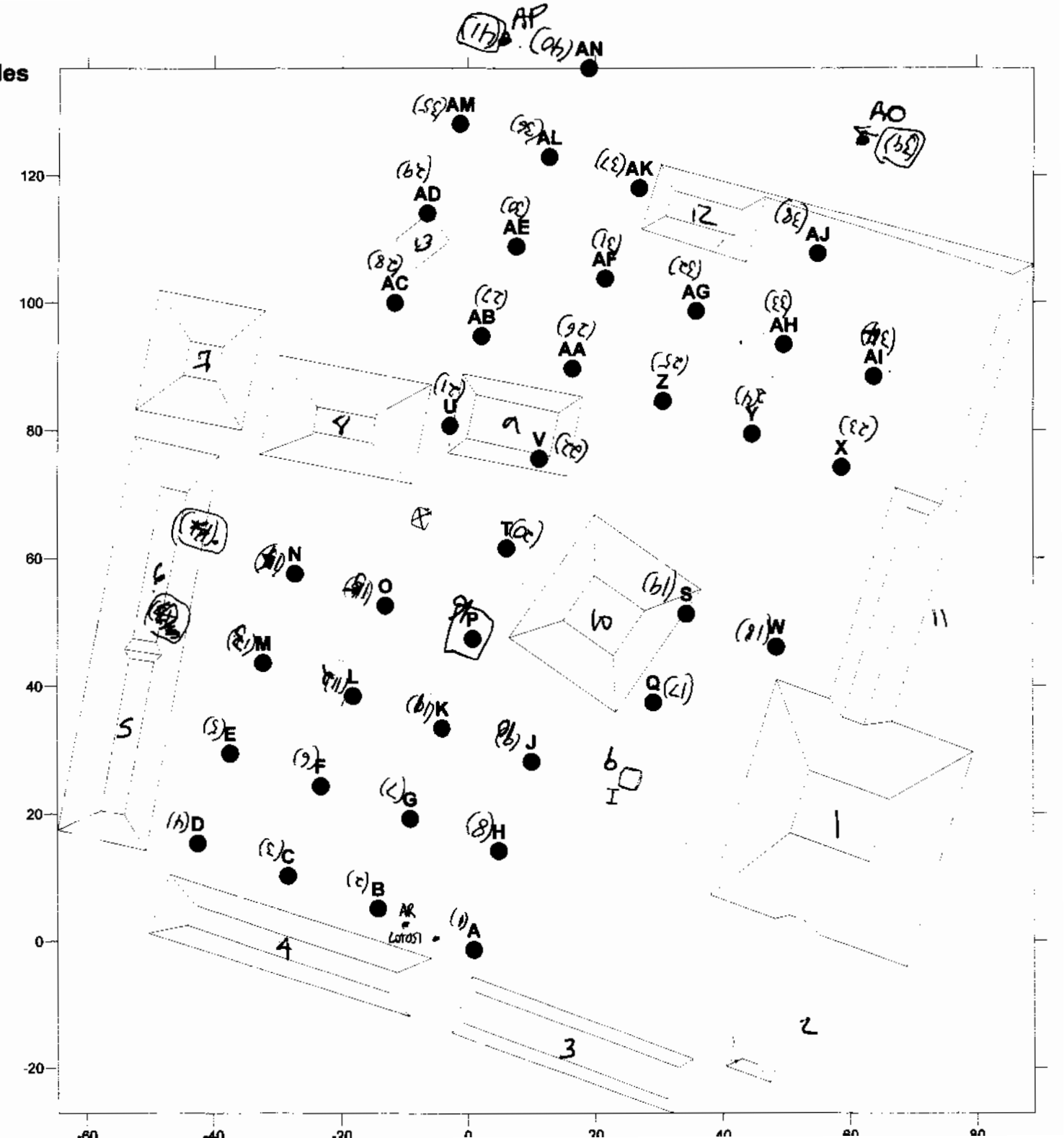
Photos _____ Digital images _____

Description:

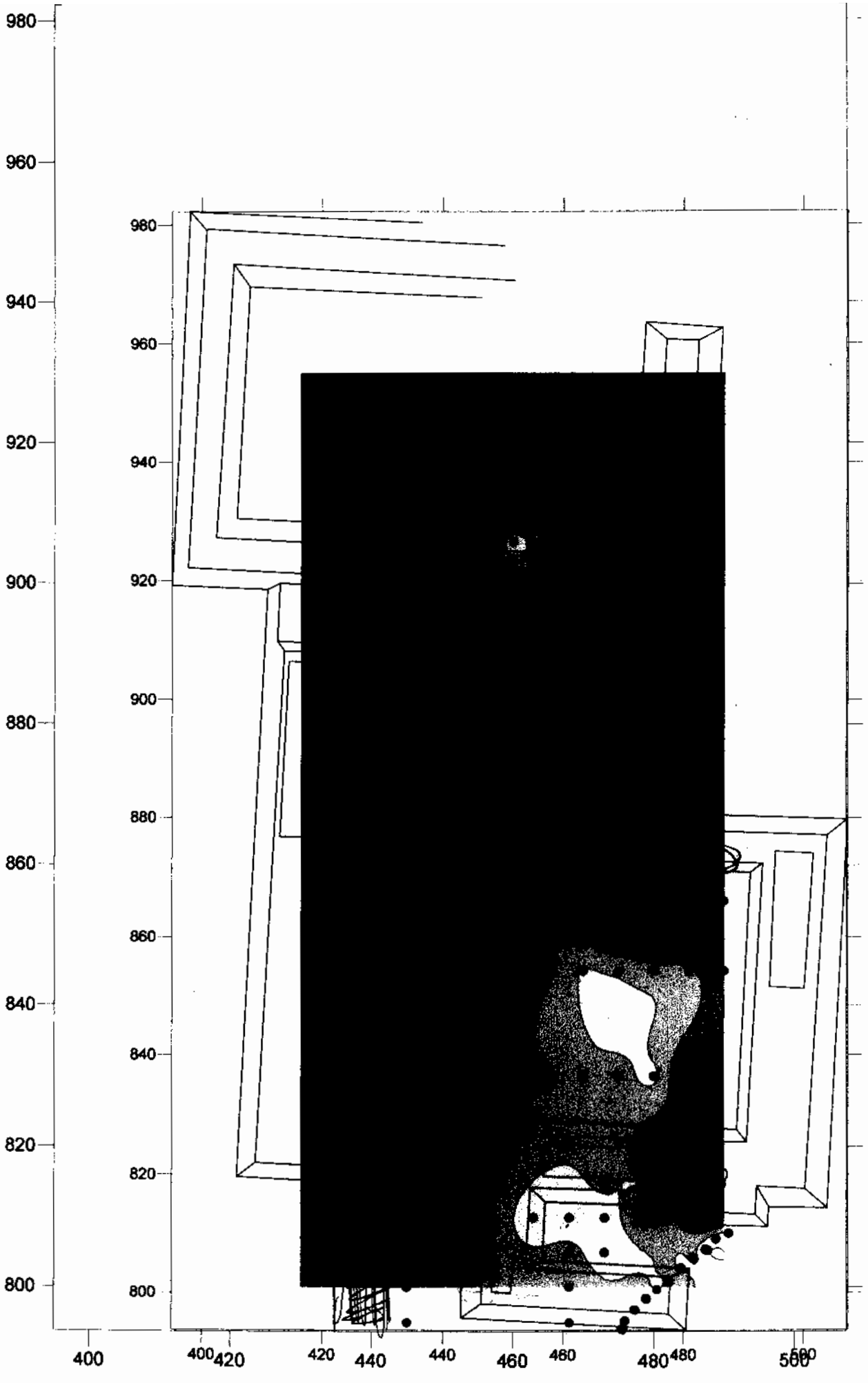
Sketch (with measurements):

Contents:

Cafetal Soil Samples



07/05 U	80.71	-2.57	999.53					2004-06-29	19
07/05 V	75.53	11.50	999.59					2004-06-29	20
07/05 W	46.08	48.75	1000.00					2004-06-29	21
07/05 X	74.19	58.96	999.98					2004-06-29	22
07/05 Y	79.44	44.97	999.67					2004-06-29	23
07/05 Z	84.59	30.87	999.36					2004-06-29	24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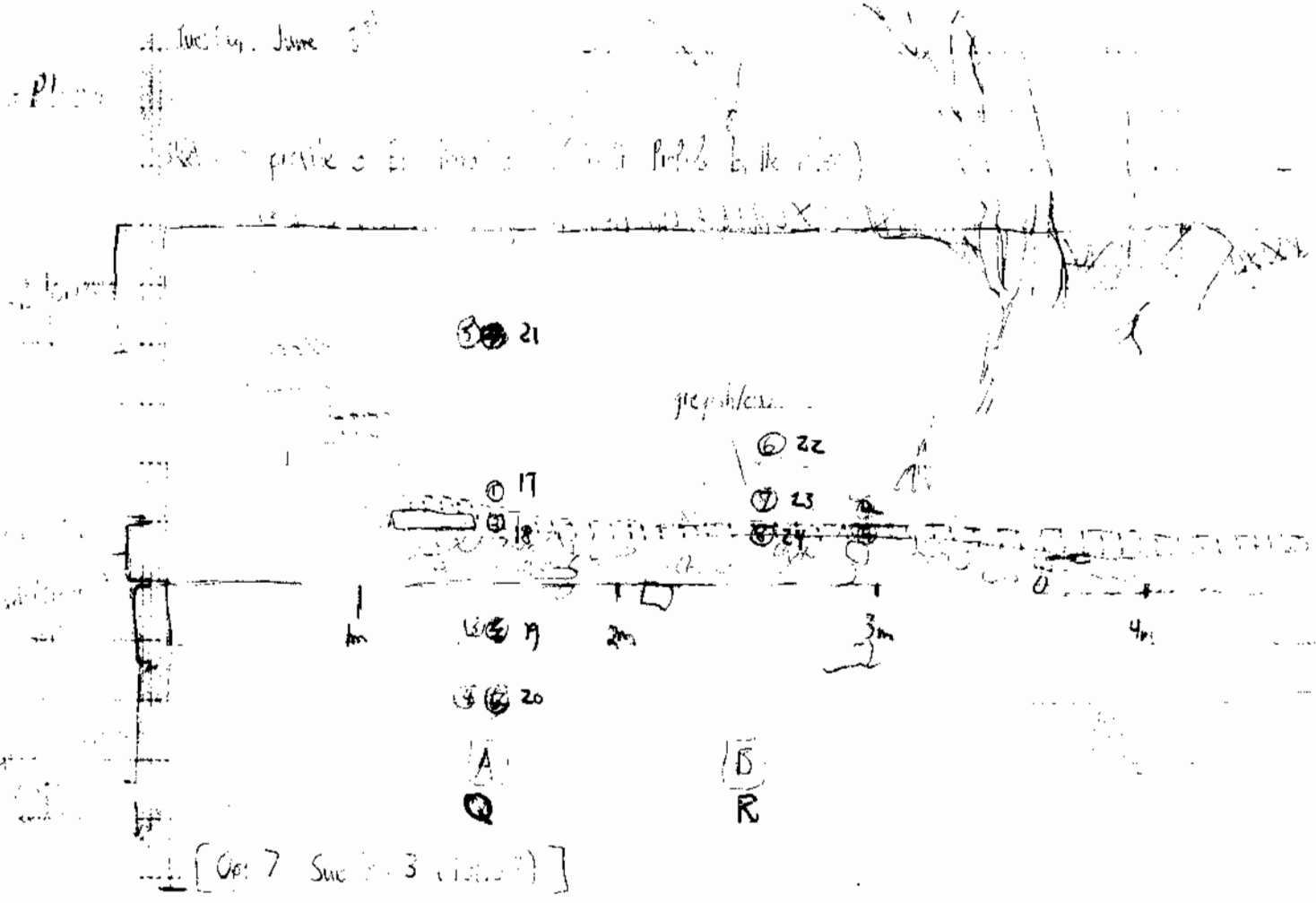
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2m
3m
4m
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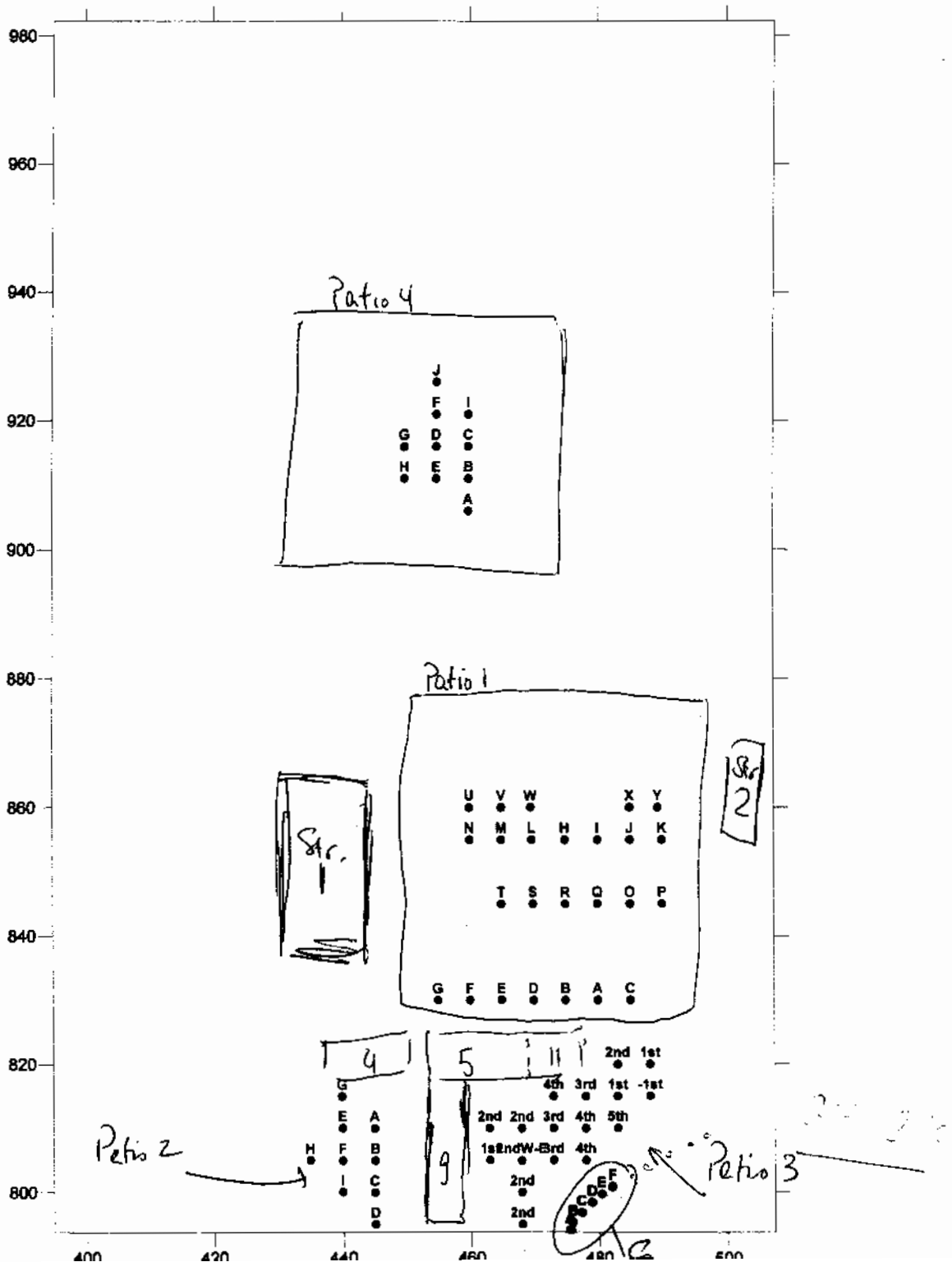
B
Q
R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Patio 2
Patio 3
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